## LONG BEACH USD

# POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

## 100% CONSTRUCTION DOCUMENTS

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

### PROJECT TEAM

**OWNER**
**LBUSD**
2425 WEBSTER AVENUE / LONG BEACH, CA 90810
(562) 997-7550 x 1452
CONTACT: GRICELDA PEREZ

**ARCHITECT**
**PBK ARCHITECTS**
843 N SPRING ST 300, LOS ANGELES, CA 90012
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CONTACT: JUAN CERVERA

**CIVIL ENGINEER**
**DIG ENGINEERING**
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CONTACT: MICHAEL CATTABIANI

**LANDSCAPE ARCHITECT**
**EDGELAND GROUP**
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**STRUCTURAL ENGINEER**
**KUBALA ENGINEERING**
2400 E KATELLA AVE, ANAHEIM, CA 92806
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CONTACT: MATT KANI

**MEP ENGINEER**
**LEAF ENGINEERS**
8163 ROCHESTER AVENUE, RANCHO CUCAMONGA, CA 91730
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CONTACT: REX WANG

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **LBUSD No.**
PTN No.: 64725-586 **DGS Track No**
**Facilities Management**

Stamps

LICENSED ARCHITECT
Kong Tao
No. C-31162
REN. 10-31-2027
STATE OF CALIFORNIA

**Maintenance and Operations**

Architect

PBK
**ARCHITECT**
843 N SPRING ST 300,
LOS ANGELES,
CA 90012
Tel: 909-987-0909
www.pbk.com

Consultant

Project

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1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

Sheet Info

JOB No.:
SCALE:
PROJ MGR:
DATE: 02/27/2026

Sheet Title

Sheet No.

**G000**

# DRAWING CONVENTIONS

| Symbol | Meaning |
|---|---|
| 1 / A6.00 | ENLARGED PLAN / DETAIL ENLARGEMENT |
| 1 / A5.00 | EXTERIOR ELEVATION |
| 1 / A7.00 | BUILDING SECTION |
| 1 / A7.00 | WALL SECTION |
| 1 / A9.00 | DETAIL SECTION |
| A, B, C, D; 106 / A6.20 | INTERIOR ELEVATIONS |
| ROOM NAME 101 | ROOM NAME & NUMBER |
| 1 / A100 | MATCH LINE |
| NAME ELEVATION | FLOOR / DATUM LINE |
| A | GRID / COLUMN LINE |
| | PROPERTY LINE |
| | NEW PARTITION |
| 106B | DOOR DESIGNATION |
| A11 | WINDOW DESIGNATION |
| 6' - 6" 5' - 6" 12' - 0" | DIMENSIONS *NOTE: ALL DIMENSIONS TO FACE OF STUD / ℄ OF COLUMN UNLESS NOTED OTHERWISE* |
| 302 36"x24"x30" | W.I. CABINET REFERENCE *WIDTH x DEPTH x HEIGHT* |
| TA3 | TOILET ACCESSORY |
| | CONSTRUCTION KEYNOTE |
| | DEMOLITION KEYNOTE |
| 1 | REVISION / REVISION NUMBER |
| REFERENCE NORTH; TRUE NORTH | NORTH ARROWS |

# SHEET NUMBERING

A201A

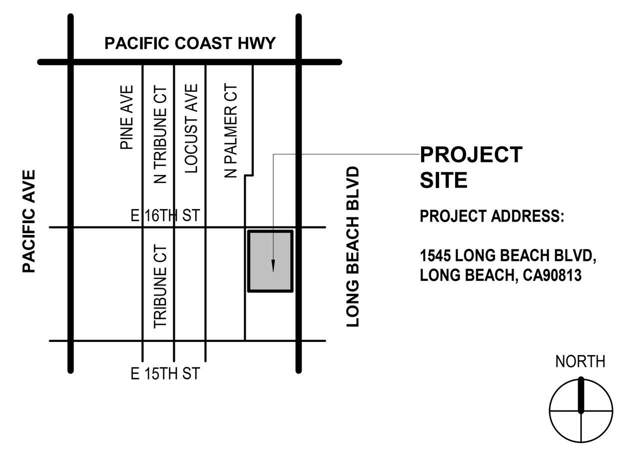
- BUILDING AREA
- SEQUENCE (.01 - .99......etc.)
- **SHEET TYPE**
  - 001 - GENERAL
  - 010 - SITE PLANS & DETAILS
  - 100 - FLOOR PLANS (Note: Flip Sheets are Schedules)
  - 200 - EXTERIOR ELEVATIONS
  - 300 - BUILDING & WALL SECTIONS
  - 400 - ENLARGED PLANS AND INTERIOR ELEVATION
  - 500 - DETAILS
  - 600 - SCHEDULES
- **DISCIPLINE**
  - G - GENERAL
  - C - CIVIL
  - L - LANDSCAPE
  - D - DEMOLITION
  - A0 - ARCHITECTURE
  - S - STRUCTURAL
  - E - ELECTRICAL
  - FA - FIRE ALARM
  - T - TECHNOLOGY
  - B - BLEACHERS
  - T - TECHNOLOGY

# SCOPE OF WORK

GENERAL SCOPE OF PROJECT AS FOLLOWS:

1. COMPLETE DEMOLITION AND CLEARING OF SATELLITE CAMPUS (INCLUDING BUT NOT LIMITED TO BUILDINGS AND PORTABLES, SITE STRUCTURES, FENCING, SITE WORK).
2. DEMOLITION SHALL INCLUDE ANY AND ALL ASSOCIATED FOOTINGS AND FOUNDATIONS.
3. SEAL COAT EXISTING PARKING LOT (2), RE-STRIPING OF PARKING STALLS, ADDITION OF WHEEL STOPS, SIGNAGE, AND ADA COMPLIANT STALLS.
4. NEW VARSITY SOFTBALL FIELD AND MULTI-PURPOSE FIELD WITH ASSOCIATED BACKSTOP FENCING, DUGOUTS (2), BATTING CAGE/BULL PEN ENCLOSURES (2).
5. NEW CUSTOM ALUMINUM 3-ROW BLEACHER AND ASSOCIATED STRUCTURAL CONCRETE PAD.
6. 5 SPORTS LIGHTING MUSCO POLES.
7. SCOREBOARD WITH PC APPROVED STRUCTURE.
8. SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO FENCING, SPORTS NETTING, SITE UTILITIES, HARDSCAPE AND LANDSCAPE, CONCRETE RETAINING CURB/WALL.
9. (2) 12'X40' MODULAR BUILDINGS ON PERMANENT CONCRETE FOUNDATIONS, (PROCUREMENT OF BUILDING BY OWNER, CONTRACTOR RESPONSIBLE FOR ALL REMAINING SCOPE INCLUDING INSTALLATION).

# VICINITY MAP




# STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (Application No. A#03- 125644 File No. 19-H15)

☒ The drawings or sheets listed on the cover or index sheet (as denoted with an asterisk *)
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I certify that: ☒ The drawings or sheets listed on the cover or index as denoted with an asterisk *
☐ This drawing or page

| | |
|---|---|
| ☒ is/are in general conformance with the project design intent and, | ☐ is/are in general conformance and with the project design intent and, |
| ☒ have been coordinated with project plans and specifications. | ☐ have been coordinated with project plans and specifications. |
| Signature: [signed] Date: 11/21/25 | Signature Date |
| Architect or Engineer designated to be in general responsible charge | Architect or Engineer delegated responsibility for this portion of the work |
| Print Name: Yong Yoo | Print Name |
| License Number: C-31162 Expiration Date: 10/31/2027 | License Number Expiration Date |

# GENERAL NOTES

1. THE ARCHITECT OR ENGINEER MAY FIND DEFECTS IN THE WORK AND IF THEY DO, THEY WILL NOTIFY THE CONTRACTOR SO THE ERROR MAY BE CORRECTED. UNDER NO CIRCUMSTANCES IS IT EVER THE INTENT FOR THE ARCHITECT OR ENGINEER TO BECOME A GUARANTOR OF THE CONTRACTOR'S PERFORMANCE BY THESE ACTIVITIES. THE FACT THAT A CONTRACTOR'S ERROR GOES UNDETECTED DURING THE VISIT TO THE SITE DOES NOT MAKE THE ARCHITECT OR ENGINEER NEGLIGENT: THE CONTRACTOR IS NEVER RELIEVED OF THE RESPONSIBILITY FOR THE DISCOVERY OF HIS OWN ERRORS AND THE CORRECTION OF THEM, NOR OF THE RESPONSIBILITY OF PROPERLY PERFORMING THE WORK.
2. THE ARCHITECT OR ENGINEER WILL MAKE VISITS TO THE JOB SITE TO OBSERVE THE PROGRESS OF THE WORK AND TO OBSERVE WHETHER OR NOT IT IS, IN GENERAL, BEING PERFORMED IN ACCORDANCE WITH THEIR PLANS AND SPECIFICATIONS. THIS DOES NOT IN ANY WAY MEAN THAT THE ARCHITECT OR ENGINEER IS A GUARANTOR OF THE CONTRACTOR'S WORK: RESPONSIBILITY FOR SAFETY IN, ON OR ABOUT THE JOB SITE: IN CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, FORMS, OR OTHER WORK AIDS: OR SUPERINTENDING THE WORK.
3. FOR ALL WALL MOUNTED AND SEMI-RECESSED MOUNTED EQUIPMENT, ACCESSORIES CABINETS, HANDRAILS, CHALKBOARDS, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT AND ETC. PROVIDE AND INSTALL BLOCKING TO BE 4x6 AND NAIL TO STUDS W/3-16D EACH END AND A34 TOP AND BOTTOM EACH END.
4. UNLESS OTHERWISE NOTED, ALL INTERIOR WALLS SHOWN ON THE FLOOR PLAN ARE TO EXTEND TO THE UNDERSIDE OF THE ROOF SHEATHING WITH ONE LAYER OF 5/8" TH. TYPE "X" GYPSUM BOARD ON EACH SIDE OF STUD FACE. ALL STUD WALLS TO CONTAIN SOUND INSULATION BATTS, FULL HEIGHT.
5. DO NOT SCALE DRAWINGS. WORK TO THE DIMENSIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY THE DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR PROMPT CLARIFICATION.
6. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES INDICATED OR NOT ON THE DRAWING ARE OBTAINED BY SEARCH OF AVAILABLE RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATIONS OF THE UTILITIES WITH SCHOOL DISTRICT MAINTENANCE AND OPERATION PERSONNEL. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES AND OTHER STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SCHOOL DISTRICT'S SATISFACTION AT NO COST.
7. PROVIDE CONSTRUCTION BARRICADES AS REQUIRED TO PROTECT PUBLIC'S HEALTH AND SAFETY INCLUDING WORK UNDER CONSTRUCTION TO THE REQUIREMENTS OF THE SCHOOL DISTRICT. COVER OPEN TRENCHES WITH SOLID MATERIAL.
8. THE CONTRACTOR SHALL PROTECT ONSITE AND ADJACENT PROPERTY AND STRUCTURES. ANY DAMAGE SHALL BE PROMPTLY RESTORED TO THE SATISFACTION OF THE OWNER/ARCHITECT, AT CONTRACTOR'S EXPENSE.
9. UNLESS SPECIFIED ON STRUCTURAL OR ARCHITECTURAL DRAWINGS, ANY ALTERATIONS OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, BRACING, WELDING, ETC. SHALL HAVE WRITTEN APPROVAL BY STRUCTURAL ENGINEER OF RECORD AND DSA PRIOR TO START OF WORK.
10. ALL DETAILS CONTAINED IN THESE CONSTRUCTION DOCUMENTS ARE PART OF THE CONSTRUCTION SCOPE REGARDLESS OF THEM BEING REFERENCED IN THE SET.
11. DURING CONSTRUCTION, TITLE 24, PART 1-5 AND 9 MUST BE KEPT ON SITE.
12. ALL CONSULTING ENGINEERS DRAWINGS ARE OF EQUAL IMPORTANCE WITH THE ARCHITECTURAL DRAWINGS IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING THE WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERS DRAWINGS THAT WOULD CAUSE AN AWKWARD OR IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR COMMENCING OF THE SAID WORK. ANY WORK COMPLETED IN CONFLICT WITH THE DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO COST TO THE OWNER OR ARCHITECT.
13. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THEIR WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS.REFER TO ALL SITE PLAN, STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND OTHER TRADES DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY SHEET ARE TO BE APPLIED ON RELATED DRAWINGS AND DETAILS.
14. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
15. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
16. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
17. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
18. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
19. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
20. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
21. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
22. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER OF RECORD, AND DSA.
23. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK.
24. REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING HEIGHT.
25. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
26. DO NOT SCALE DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
27. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
28. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.
29. ALL SPACES WITH FLOOR DRAINS TO HAVE FINISHED FLOORS SLOPED TO DRAIN NOT TO EXCEED ONE IN FIFTY.
30. ALL FLOORS FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS UNLESS NOTED OTHERWISE. ALL FLOOR FINISH CHANGES SHALL HAVE THRESHOLDS OR REDUCER STRIPS.
31. COORDINATE HOUSEKEEPING PAD DIMENSIONS AND LOCATIONS WITH EQUIPMENT TO BE INSTALLED.
32. ALL DOORS IN INTERIOR GYP. BD STUD WALLS SHALL BE SET 4" OFF THE PERP. ADJ. WALL ON THE HINGE SIDE OF THE DOOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
33. ALUM. THRESHOLDS TO BE SET IN FULL BED OF SEALANT AT ALL EXT. DOORS.
34. COORDINATE ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO SLAB CONSTRUCTION.
35. PROVIDE VINYL REDUCER AT ALL DISSIMILAR FLOOR MATERIALS UNLESS OTHERWISE NOTED.
36. UNLESS OTHERWISE NOTED, ALL ELECTRICAL AND MECHANICAL OPERABLE DEVICES SHALL BE MOUNTED WITH THE HIGHEST OPERABLE CONTROL AT MAX. OF 42" AFF.
37. REFER TO PROJECT COMMISSIONING SPECIFICATIONS IN DIV 01, DIV 22, DIV 23, DIV 26.
38. THE CONSTRUCTION DOCUMENTS, INCLUDING THE SPECIFICATIONS, PLANS AND DRAWINGS, ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ANY ONE SHALL BE AS BINDING AS IF CALLED FOR BY ALL. IN CASE OF CONFLICT, LARGE SCALE (DETAIL) DRAWINGS SHALL GOVERN OVER SMALL- SCALE DRAWINGS. THE SPECIFICATIONS SHALL GOVERN OVER BOTH THE CONSTRUCTION PROCEDURES MANUAL AND THE CONTRACT DRAWINGS EXCEPT AS NOTED HEREIN BELOW, SPECIAL PROVISIONS SHALL GOVERN OVER BOTH THE CONSTRUCTION DRAWINGS AND THE GENERAL CONDITIONS, AND SUBSEQUENT ADDENDA. INTERPRETATIONS, OR CHANGE ORDERS SHALL GOVERN OVER THE ORIGINAL DOCUMENTS, UNLESS A DIFFERENT ORDER OF PROCEDURE IS NOTED ELSEWHERE IN CONJUNCTION WITH A SPECIFIC PORTION OF THE DOCUMENTS.

    IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE DOCUMENT CONTAINING ADDITIONAL QUANTITIES SHALL GOVERN IN MATTERS OF QUANTITY; THE DOCUMENT REQUIRING A HIGHER DEGREE OF QUALITY SHALL GOVERN IN MATTERS OF QUALITY. IN CASE OF CONFLICT WITHIN THE DRAWINGS INVOLVING QUANTITIES OR WITHIN THE SPECIFICATIONS INVOLVING QUALITY, THE GREATER QUANTITY AND THE HIGHER QUALITY SHALL BE FURNISHED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ALL SUCH QUANTITY AND QUALITY CONFLICTS AND SHALL AGREE UPON RESOLUTION, IN WRITING, PRIOR TO PROCEEDING.

    WHERE ON ANY DRAWING A PORTION OF THE WORK IS DRAWN OUT AND THE REMAINDER IS INDICATED IN OUTLINE, THE DRAWN-OUT PARTS SHALL APPLY TO ALL OTHER LIKE PORTIONS OF THE WORK. WHERE ORNAMENT OR OTHER DETAILS IS INDICATED AS STARTING, SUCH DETAIL SHALL BE CONTINUED THROUGHOUT THE COURSES OR PARTS IN WHICH IT OCCURS AND SHALL ALSO APPLY TO OTHER SIMILAR PARTS IN THE WORK, UNLESS OTHERWISE INDICATED.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# ABBREVIATIONS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A.D. | AREA DRAIN | EQUIP | EQUIPMENT | MEP | MECHANICAL, ELECTRICAL AND PLUMBING | S.D. | SOAP DISPENSER |
| A.D.A. | AMERICANS WITH DISABILITIES ACT | EXIST | EXISTING | MEZZ. | MEZZANINE | SCHED | SCHEDULE |
| A.F.F. | ABOVE FINISH FLOOR | EXP | EXPANSION | MFR. | MANUFACTURE (R) | SCPL | SOLID CORE PLASTIC LAMINATE |
| A.F.G. | ABOVE FINISH GRADE | EXT | EXTERIOR | MH. | MANHOLE | SECT | SECTION |
| A.H.J. | ATHORITY HAVING JURISDICTION | F.E. | FIRE EXTINGUISHER | MIN. | MINIMUM | SHT | SHEET |
| A/C | AIR CONDITIONING | F.E.C. | FIRE EXTINGUISHER CABINET | MISC. | MISCELLANEOUS | SIM | SIMILAR |
| ACP. | ACOUSTICAL PANEL | F.H.C. | FIRE HOSE CABINET | MOD | MODULAR | SPC | SPECIAL COATING SYSTEM |
| ACT. | ACOUSTICAL TILE | FB. | FACE BRICK | MTL | METAL | SPEC | SPECIFICATION (S) |
| ADJ. | ABADJUSTABLE | FD. | FLOOR DRAIN | MTP. | METAL TOILET PARTITION | SQ. | SQUARE |
| ALT. | ALTERNATE | FIN. | FINISH (ED) | N.D. | NAPKIN DISPOSAL | SS. | SOUND STRIP |
| ALUM. | ALUMINUM | FIXT. | FIXTURE | N.I.C. | NOT IN CONTRACT | SS. STL. | STAINLESS STEEL |
| ASPH. | ASPHALT | FLR. | FLOOR (ING) | N.R. | NOT RATED | STD | STANDARD |
| ∠ | ANGLE | FLSHG. | FLASHING | N.T.S. | NOT TO SCALE | STL | STEEL |
| B.U.R. | BUILT-UP ROOF | FLUOR | FLUORESCENT | N.V. | NAPKIN VENDOR | STRUC | STRUCTURAL |
| BD. | BOARD | G.B. | GRAB BAR | NO. | NUMBER | SUSP | SUSPENDED |
| BLDG. | BUILDING | G.I. | GALVANIZED IRON | O.C. | ON CENTER (S) | SVDF | SHEET VINYL DANCE FLOORING |
| BLK. | BLOCK | GA. | GAUGE | O.C.E.W. | ON CENTER EACH WAY | SYS | SYSTEM |
| BM. | BEAM | GALV. | GALVANIZED | O.D. | OUTSIDE DIAMETER | T.B. | TACK BOARD |
| C | CHANNEL | GCMU | GLAZED CONCRETE MASONRY UNIT | O.F.C.I. | OWNER FURNISHED, CONTRACTOR INSTALLED | T.D.R. | TOWEL DISPENSER AND RECEPTACL |
| C.J. | CONTROL JOINT | GEN. | GENERAL | O.H. | OPPOSITE HAND | T.O. | TOP OF |
| C.M.U. | CONCRETE MASONRY UNIT | GEN. | GENERAL | OPNG. | OPENING | T.O.B. | TOP OF (WOOD) BLOCKING |
| C.W. | COLD WATER | GL. | GLASS / GLAZING | OPP. | OPPOSITE | T.O.M. | TOP OF MASONRY |
| CAB, CABT | CABINET | GL. | GLASS | P. LAM. | PLASTIC LAMINATE | T.O.S. | TOP OF STEEL |
| CFMF | COLD FORMED METAL FRAMING | GR. | GRADE | P.C. | PRECAST | T.T.D. | TOILET TISSUE DISPENSER |
| CL | CENTERLINE | GTP. | GLAZED TILE PAVER | P.H. | PAPER HOLDER | TCNA | TILE COUNCIL OF NORTH AMERICA |
| CLG. | CEILING | GYP. | GYPSUM DRYWALL | P.L. | PROPERTY LINE | TEL | TELEPHONE |
| CLR | CLEAR | H.W. | HOT WATER | P.P. | POWER POLE | TERR | TERRAZZO |
| COL. | COLUMN | HM | HOLLOW METAL FRAME | P.W.B. | PREFINISHED WALL BOARD | THK | THICK (NESS) |
| COMP. | COMPRESSIBLE | HORIZ. | HORIZONTAL | PL. | PLATE | TYP | TYPICAL |
| CONC. | CONCRETE | HT. | HEIGHT | PLUMB. | PLUMBING | U.N.O. | UNLESS NOTED OTHERWISE |
| COND. | CONDITION | I.D. | INSIDE DIAMETER | PLYWD. | PLYWOOD | UR. | URINAL |
| CORR. | CORRIDOR | I.P.S. | IRON PIPE SIZE | POL. | POLISHED | V | VENT |
| CPT. | CARPET (ED) | INSUL | INSULATE (ED), (ION) | PR. | PAIR | V.C.T. | VINYL COMPOSITION TILE |
| CT. | CERAMIC TILE | INT. | INTERIOR | PREFIN. | PRE-FINISHED | V.I.F. | VERIFY IN FIELD |
| CTG | CLEAR TEMPERED GLAZING | ISA | INTERNATIONL SYMBOL OF ACCESSIBILITY | PT. | POINT | VENT. | VENTILATING, VENTILATED |
| CTSK. | COUNTER SINK | JT. | JOINT | PTD. | PAINTED | VER. | VERIFY |
| D | DRYER | L.P. | LIGHT POLE | Q.T. | QUARRY TILE | VERT. | VERTICAL |
| D.F. | DRINKING FOUNTAIN | LAM. | LAMINATE (D) | R / RAD | RADIUS | VGB | (PREFINISHED) VINYL CLAD GYPSUM BOARD |
| D.P. | DAMPPROOFING | LAV. | LAVATORY | RD | ROOF DRAIN | VWC | VINYL WALL COVERING |
| D.S. | DOWN SPOUT | LT. | LIGHT | RE. , REF. | REFER TO / REFERENCE / SEE | W | WASHING MACHINE |
| DIA. | DIAMETER | LT. WT. | LIGHTWEIGHT | RECP. | RECEPTACLE | W.P. | WATER PROOFING |
| DIM. | DIMENSION | M.O. | MASONRY OPENING | REINF. | REINFORCE (D), (ING) | W.S. | WEATHERSTRIP |
| DTL. | DETAIL | MAS. | MASONRY | REQ'D. | REQUIRED | W.W. | WATER WELL |
| DWG. | DRAWING | MATL. | MATERIAL (S) | RES. | RESILIENT | W.W.F | WELDED WIRE FABRIC |
| E.J. | EXPANSION JOINT | MAX. | MAXIMUM | REV. | REVISION (S), REVISED | W/ | WITH |
| E.Q. | EQUAL | MB. | MARKER BOARD | RF | RECREATIONAL RESILIENT FLOORING | WC | WATER CLOSET |
| EA. | EACH | MECH. | MECHANICAL | RPG. | RELOCATABLE PAINTED GYPSUM BOARD | WD | WOOD |
| EDF | ELECTRIC DRINKING FOUNTAIN | MEM | MEMBRANE | RSS. | ROD STOCK AND SEALANT | WDW | WINDOW |
| EL. | ELEVATION (HEIGHT) | MEM. WP. | MEMBRANE WATERPROOFING | S.C. | SEALED CONCRETE | WT | WEIGHT |
| ELECT. | ELECTRICAL | | | | | | |
| ELEV | ELEVATION (DRAWING) | | | | | | |

# DRAWING INDEX


### GENERAL

| | |
|---|---|
| G000 | COVER SHEET |
| G001 | SHEET INDEX, DRAWING CONVENTIONS |
| G002 | ACCESSIBILITY SITE PLAN |
| G003 | FIRE ACCESS SITE PLAN |
| G004 | ACCESSIBILITY DETAILS |
| G005 | SIGNAGE AND ACCESSIBILITY DETAILS |

**COUNT:** 6

### CIVIL*

| | |
|---|---|
| C001 | NOTES, INDEX, AND LEGEND |
| C002 | SURVEY (FOR INFORMATION ONLY) 1 OF 3 |
| C003 | SURVEY (FOR INFORMATION ONLY) 2 OF 3 |
| C004 | SURVEY (FOR INFORMATION ONLY) 3 OF 3 |
| C005 | DEMOLITION PLAN (1 OF 2) |
| C006 | DEMOLITION PLAN (2 OF 2) |
| C103 | DIMENSIONAL CONTROL PLAN (1 OF 2) |
| C104 | DIMENSIONAL CONTROL PLAN (2 OF 2) |
| C201 | GRADING AND PAVING PLAN (1 OF 3) |
| C202 | GRADING AND PAVING PLAN (2 OF 3) |
| C203 | GRADING AND PAVING PLAN (3 OF 3) |
| C204 | WET UTILITY PLAN (1 OF 2) |
| C205 | WET UTILITY PLAN (2 OF 2) |
| C310 | RETAINING WALL PLAN AND PROFILE (1 OF 2) |
| C311 | RETAINING WALL PLAN AND PROFILE (2 OF 2) |
| C401 | CIVIL DETAILS |
| C701 | EROSION CONTROL PLAN |
| C702 | EROSION CONTROL PLAN DETAILS |

**COUNT:** 18

### LANDSCAPE*

| | |
|---|---|
| L1.00 | PLANTING NOTES |
| L1.01 | PLANTING PLAN |
| L2.00 | PLANTING DETAILS |
| L3.00 | IRRIGATION NOTES |
| L3.01 | IRRIGATION PLAN & SCHEDULE |
| L4.00 | IRRIGATION DETAILS |
| L4.01 | IRRIGATION DETAILS |

**COUNT:** 7

### DEMOLITION

| | |
|---|---|
| DA010 | DEMOLITION SITE PLAN |
| DA012 | BLDG A, B, C, & D DEMOLITION FLOOR PLAN |
| DA013 | BLDG E, F, G & H DEMOLITION FLOOR PLAN & SITE |
| DA014 | BLDG A, B, C, & D DEMOLITION RCP PLAN |
| DA015 | BLDG E, F, G & H DEMOLITION RCP PLAN |

**COUNT:** 5

### ARCHITECTURAL

| | |
|---|---|
| A010 | OVERALL SITE PLAN |
| A011 | ENLARGED SITE PLAN - SOFTBALL & SOCCER FIELD |
| A012 | PAVING SITE PLAN |
| A013 | BULLPEN, BATTING CAGE, BACKSTOP DETAILS & GATE SCHEDULE |
| A014 | SITE DETAILS - GATEWAY, FENCING & GATES |
| A015 | SITE DETAILS - FENCING & GATES |
| A016 | SITE DETAILS - ENLARGED SITE PLAN |
| A020 | ENLARGED SITE PLAN - ACCESSIBLE PARKING |

**COUNT:** 8

### STRUCTURAL*

| | |
|---|---|
| S0.1 | GENERAL NOTES |
| S0.2 | GENERAL NOTES |
| S1.1 | OVERALL SITE PLAN |
| S2.1 | FOUNDATION / ROOF PLAN |
| S4.1 | TYPICAL DETAILS |
| S4.2 | DETAILS |

**COUNT:**6

### ELECTRICAL*

| | |
|---|---|
| E0.0 | ELECTRICAL SYMBOLS, LEGENDS AND GENERAL NOTES |
| E1.1 | ELECTRICAL SITE PLAN |
| E2.1 | ELECTRICAL PLANS |
| E5.1 | ELECTRICAL PANEL SCHEDULES |
| E6.1 | ELECTRICAL DETAILS |
| E7.1 | SINGLE LINE DIAGRAMS |

**COUNT:** 6

### FIRE ALARM*

| | |
|---|---|
| FA000 | FIRE ALARM SYMBOLS, LEGENDS & GENERAL NOTES |
| FA101 | FIRE ALARM SITE PLAN |
| FA201 | FIRE ALARM FLOOR PLAN |
| FA501 | FIRE ALARM RISER DIAGRAM |
| FA601 | FIRE ALARM DETAILS |

**COUNT:** 5

### TECHNOLOGY *

| | |
|---|---|
| T0.00 | TECHNOLOGY COVER SHEET |
| T0.01 | TECHNOLOGY RISER DIAGRAM |
| T1.1 | TECHNOLOGY SITE PLAN |
| T1.2 | TECHNOLOGY ENLARGED SITE PLAN |
| T2.1 | TECHNOLOGY FLOOR PLAN |
| T5.0 | TECHNOLOGY ENLARGED PLAN |
| T6.1 | TECHNOLOGY DETAILS |
| T6.2 | TECHNOLOGY DETAILS |

**COUNT:** 8

### BLEACHERS *

| | |
|---|---|
| B1 | COVER PAGE |
| B2 | SECTION VIEW |
| B3 | PLANS VIEW |
| B4 | ANGLE FAB / GUARDRAIL DETAILS |
| B5 | ALUMINUM PLANK DETAILS |

**COUNT:** 5

### MODULAR BUILDING - PROJECT SPECIFIC (PC#) 04-122000 *

| | |
|---|---|
| A-0N | COVER SHEET |
| A-0.2N | SCHEDULES |
| A-0.55N | T-24 PERFORMANCE FORM |
| A-1.02N | FLOOR PLAN |
| A-1.03N | ENLARGED PLANS & ELEVATIONS |
| A-1.04N | ENLARGED PLANS & ELEVATIONS |
| A-2.02N | REFLECTED CEILING PLAN |
| A-3.01N | ROOF PLAN |
| A-4.04N | EXTERIOR ELEVATIONS |
| A-5.50N | ARCHITECTURAL DETAILS |
| F-2.11N | CONCRETE FOUNDATION PLAN |
| P-1.02N | PLUMBING PLAN & SCHEDULE |
| E-1.02N | ELECTRICAL PLAN & SCHEDULE |

**COUNT:** 13

### MODULAR BUILDING - PC SHEETS (PC#) 04-122000 *

| | |
|---|---|
| A-0 | COVER SHEET |
| A-0A | T & I FORMS |
| A-0.1 | SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE |
| A-0.2 | SCHEDULES |
| A-0.6A | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.6B | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.6C | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.7 | ENERGY MANDATORY MEASURES & CALGREEN SPEC'S |
| A-1.02 | FLOOR PLAN 12' x 40' - MODEL B-1 12' x 40' - MODEL B-2 ADULT HEIGHT |
| A-2.02 | REFLECTED CEILING PLAN 12'x40' MODEL B-1 OR B-2 |
| A-2.20 | CEILING DETAILS T-GRID |
| A-2.21 | CEILING DETAILS HARD LID |
| A-3.01 | METAL DECK MONO OR DUAL SLOPE |
| A-3.50 | ROOF DETAILS STANDING SEAM ROOF DECK |
| A-4.04 | EXTERIOR ELEVATION 12' X 40' - MODEL B-2 MONO / DUAL SLOPE |
| A-5.01 | CROSS SECTION MONO SLOPE |
| A-5.05 | CROSS SECTION |
| A-5.51 | ARCHITECTURAL DETAILS WOOD STUD - PLASTER |
| A-5.53 | DETAILS WOOD STUD - PLASTER 1-HOUR RATED |
| A-5.70 | ARCHITECTURAL DETAILS FLOOR |
| A-5.81 | ARCHITECTURAL DETAILS MISCELLANEOUS |
| A-6.01 | INTERIOR ELEVATIONS WALL MOUNTED "ADULT HEIGHT |
| F-2.11 | CONCRETE FOUNDATION PLAN - BELOW GRADE CONCRETE FLOOR |
| F-2.50 | CONCRETE FOUNDATION DETAILS - BELOW GRADE |
| F-2.51 | FOUNDATION DETAILS - CONCRETE |
| S-01 | STRUCTURAL SPECIFICATIONS |
| S-1.11 | FLOOR FRAMING PLAN CONCRETE FLOOR |
| S-1.60 | FLOOR FRAMING DETAIL CONCRETE FLOOR |
| S-2.01 | ROOF FRAMING PLAN MONO SLOPE |
| S-2.50 | ROOF FRAMING DETAILS MONO SLOPE |
| S-2.60 | ROOF FRAMING DETAILS |
| S-3.01 | BUILDING SECTIONS MONO SLOPE |
| S-5.00 | FRAMING ELEVATIONS WOOD STUDS |
| S-5.10 | WALL FRAMING DETAILS WOOD STUDS |
| S-5.11 | WALL FRAMING DETAILS WOOD STUDS |
| P-1.02A | PLUMBING PLAN AND ISOMETRICS MODEL B-1 OR B-2 "ADULT" |
| P-2.01 | PLUMBING DETAILS AND SCHEDULE |
| M-0.1 | MECHANICAL NOTES, SCHEDULES, & DETAILS |
| E-1.02 | ELECTRICAL PLAN AND SCHEDULE MODEL B-1 OR B-2 |

**COUNT:** 39

### MUSCO LIGHTS *

| | |
|---|---|
| MT1 | NOTES, FOUNDATION DETAIL |
| MS1 | 60B POLE DETAILS |
| MS2 | 700 POLE DETAILS |
| MS3 | 80B POLE DETAILS |
| MD1 | ATTACHMENT DETAILS |
| MD2 | ATTACHMENT DETAILS |
| MD3 | ATTACHMENT DETAILS |

**COUNT:** 7

### SCOREBOARD *

| | |
|---|---|
| SB0.1 | COVER SHEET |
| SB0.2 | STRUCTURAL NOTES & SPECIAL INSPECTIONS |
| SB0.3 | EXAMPLE DSA 103 - TESTING AND INSPECTIONS |
| SB3.2 | THREE COLUMN CAISSON - BOLTED |
| SB5.1 | ATTACHMENT DETAILS |
| SB5.2 | OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS |

**COUNT:** 6

GRAND TOTAL NUMBER OF DRAWING SHEETS : **139**


# DSA NOTES

1. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART I, TITLE 24, CCR.
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. CLASS 2.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
7. FIRE SAFETY DURING DEMOLITION AND/OR CONSTRUCTION SHALL COMPLY WITH 2022 CFC CHAPTER 33

# CODES & STANDARDS

**PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2022***

- **2025 California Administrative Code (CAC)**, ........ **Part 1, Title 24 CCR***
- **2022 California Building Code (CBC)**, ........ **Part 2, Title 24 CCR**
  (2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
- **2022 California Electrical Code (CEC)**, ........ **Part 3, Title 24 CCR**
  (2017 National Electrical Code and 2019 California Amendments)
- **2022 California Mechanical Code (CMC)**, ........ **Part 4, Title 24 CCR**
  (2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
- **2022 California Plumbing Code (CPC)**, ........ **Part 5, Title 24 CCR**
  (2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
- **2022 California Energy Code (CEC)**, ........ **Part 6, Title 24 CCR**
- **2022 California Fire Code (CFC)**, Part 9, Title 24 CCR
  (2018 International Fire Code and 2019 California Amendments)
- **2022 California Existing Building Code (CEBC)**, Part 10, Title 24 CCR
  (2018 International Existing Building Code and 2019 California Amendments)
- **2022 California Green Building Standards Code (CALGreen)**, ........ **Part 11, Title 24 CCR**
- **2022 California Referenced Standards Code**, ........ **Part 12, Title 24 CCR**
- **Public Safety, State Fire Marshal Regulations**, ........ **Title 19 CCR**
- **2019 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators** ........ ***(per 2019 CBC Part 2 Ch 35)***

*Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption*

2010 ADA Standards for Accessible Design

**PARTIAL LIST OF APPLICABLE STANDARDS**

- **NFPA 13** - Standard for the Installation of Sprinkler Systems (CA amended) ........ **2022 Edition**
- **NFPA 14** - Standard for the Installation of Standpipe and Hose Systems (CA amended) ........ **2019 Edition**
- **NFPA 17** - Standard for Dry Chemical Extinguishing Systems ........ **2021 Edition**
- **NFPA 17A** - Standard for Wet Chemical Extinguishing Systems ........ **2021 Edition**
- **NFPA 20** - Standard for the Installation of Stationary Pumps for Fire Protection ........ **2019 Edition**
- **NFPA 22** - Standard for Water Tanks for Private Fire Protection ........ **2019 Edition**
- **NFPA 24** - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended) ........ **2019 Edition**
- **NFPA 72** - National Fire Alarm and Signaling Code (CA amended) ........ **2022 Edition**
- **NFPA 80** - Standard for Fire Doors and Other Opening Protectives ........ **2019 Edition**
- **NFPA 2001** - Standard on Clean Agent Fire Extinguishing Systems (CA amended) ........ **2018 Edition**
- **UL 300** - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment ........ **2005 (R2010)**
- **UL 464** - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories ........ **2003 Edition**
- **UL 521** - Standard for Heat Detectors for Fire Protective Signaling Systems ........ **1999 Edition**
- **UL 1971** - Standard for Signaling Devices for the Hearing Impaired ........ **2002 (R2010)**
- **ICC 300** - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands ........ **2017 Edition**

For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

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Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | **9216-654** |
| PTN No.: | **64725-585** |

**Facilities Management**

Stamps

LICENSED ARCHITECT — Yong Yoo — No. C-31162 — REN. 10-31-2027 — STATE OF CALIFORNIA

Architect

**PBK ARCHITECT**
8163 ROCHESTER AVE.
SUITE 100
RANCHO CUCAMONGA, CA 91730
Tel: 909-987-0909
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Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

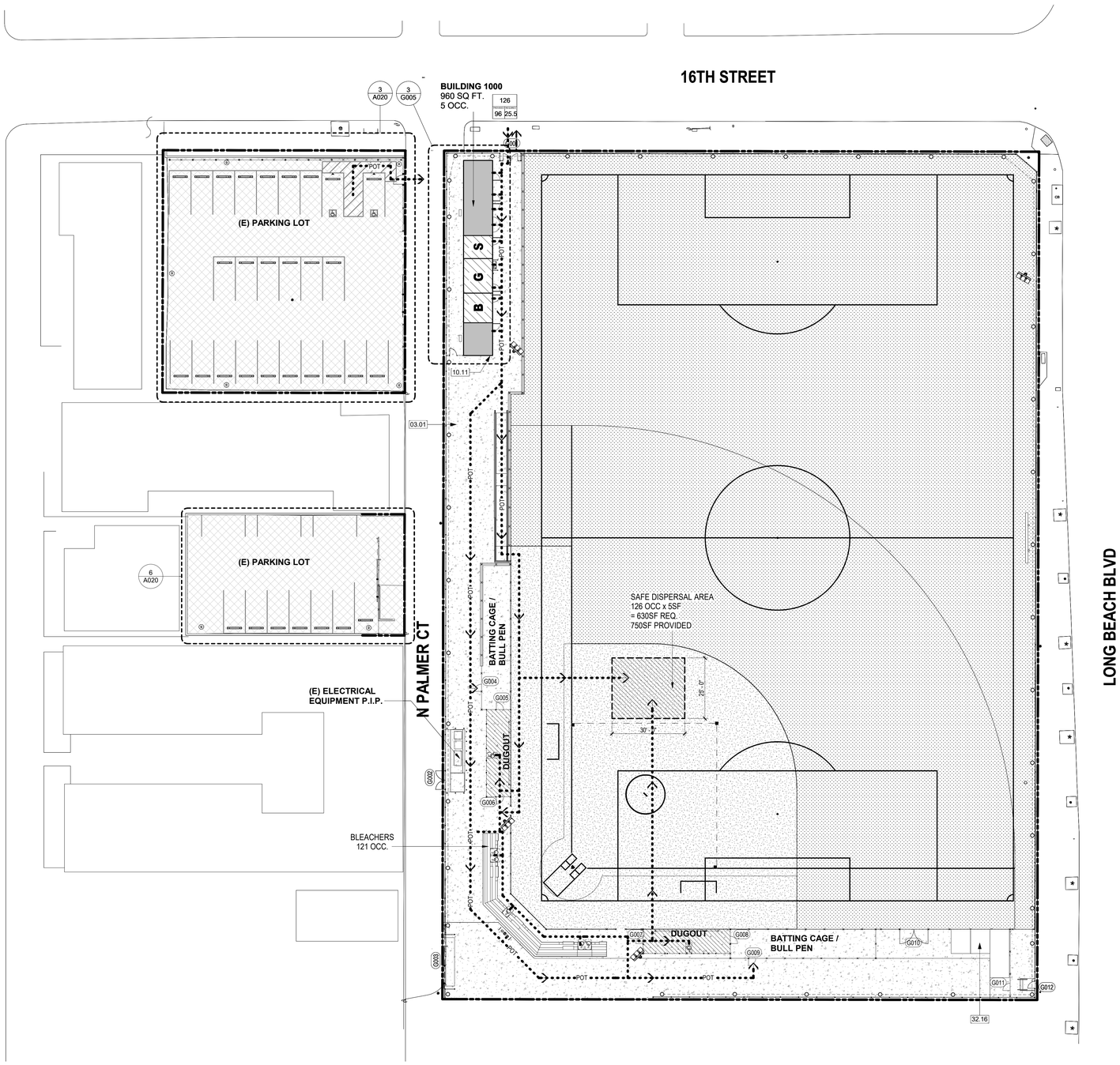
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | |
| DATE: | 11/21/25 |

Sheet Title

**SHEET INDEX, DRAWING CONVENTIONS**

Sheet No.

**G001**




1 ENLARGED SITE ACCESSIBILITY PLAN
1" = 20'-0"

## KEYNOTES

03.01 CONCRETE PAVING, SEE CIVIL
10.11 (N) ASSISTIVE LISTENING SYSTEM SIGNAGE, REFER TO 20/G005
32.16 (2) 8'-0" X 10'-0" STORAGE CONTAINER, (1) 8'-0"x 20'-0", O.F.C.I.

5

## CODE ANALYSIS LEGEND

- P.O.T — PATH OF TRAVEL
- P.O.E — PATH OF EGRESS
- G01 — GATE
- 100 / 36 | 6.6 — COMBINED EXIT LOAD; REQUIRED EXIT WIDTH (IN INCHES); PROVIDED EXIT WIDTH (IN INCHES)
- B — BOYS RESTROOM
- G — GIRLS RESTROOM
- S — STAFF ALL GENDER RESTROOM
- PROPERTY LINE / AREA OF WORK
- NEW CONCRETE PAVING
- NEW INFILL CLAY
- NEW NATURAL TURF

4

## PATH OF TRAVEL

**"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:**
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE **ITEMS SHALL BE BROUGHT INTO COMPLIANCE** WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

THE STATEMENT INDICATES THAT THE ITEMS NOT IDENTIFIED AND NOT IN COMPLIANCE SHALL BE BROUGHT INTO COMPLIANCE BY MEANS OF CONSTRUCTION CHANGE DOCUMENTS. **IT DOES NOT MEAN AN UNREASONABLE HARDSHIP CAN BE SUBMITTED IN LIEU OF COMPLIANCE.**

"ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLANS IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:12 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PART OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT HAS VERIFIED THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL."

3

NOTE:
SEE PROJECT SPECIFICATIONS SECTION 27 51 26 FOR THE PERMANENT ASSISTIVE LISTENING SYSTEM (ALS) REQUIREMENTS AND THE ALS COMPONENTS, INCLUDING NECKLOOPS, TO FURNISH IN THE BLEACHER SEATING AREAS.

2

1

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

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Issue

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| | | |

Sheet Info

| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | |
| DATE: | 11/21/25 |

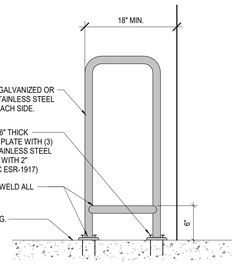
Sheet Title

**ACCESSIBILITY SITE PLAN**

Sheet No.

**G002**

G F E D C B A



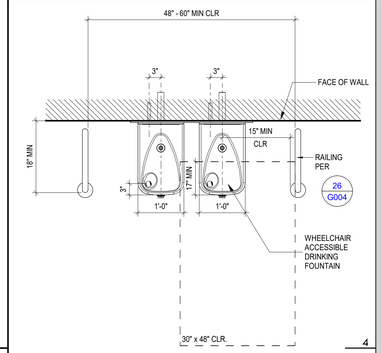

**26** D.F. RAIL
1" = 1'-0"

| LABEL | DESCRIPTION |
|---|---|
| TA1 | GOJO SOAP DISPENSER |
| TA2 | MIRROR AT RESTROOMS (24"x36" U.N.O.) |
| TA3 | NON-ACCESSIBLE TOILET PAPER DISPENSER |
| TA4 | PAPER TOWEL DISPENSER |
| TA5 | GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS |
| TA6 | SANITARY NAPKIN DISPOSAL |
| TA7 | MOP & BROOM HOLDER |
| TA8 | MIRROR AT STAFF RR |
| TA9 | SOAP DISPENSER AT RESTROOMS |
| TA10 | ELECTRIC HAND DRYER |
| TA11 | GRAB BAR AT AMBULATORY ACCESSIBLE TOILET STALL |
| TA12 | FEMININE HYGIENE DISPENSER |
| TA13 | CLOTHES HOOK |
| TA14 | TOILET SEAT COVER DISPENSER |
| TA16 | ACCESSIBLE TOILET PAPER DISPENSER @ PARTITION |
| TA17 | ACCESSIBLE TOILET PAPER DISPENSER |

**GENERAL NOTES:**

- ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED UNLESS NOTED OTHERWISE.
- COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
- REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE VERIFY ALL PATTERNS WITH ARCHITECT.
- ALIGN MIRROR ON CENTER OF LAVATORY U.N.O.
- ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER, MOUNTED AT 48" MAX AFF.
- ALL SOAP DISPENSERS TO BE OWNER FURNISHED CONTRACTOR INSTALLED
- CONTRACTOR FURNISHED CONTRACTOR INSTALLED ALL NON-ACCESSIBLE TOILET PAPER DISPENSER AT NON-ACCESSIBLE STALLS.

TOILET ACCESSORY SCHEDULE 5

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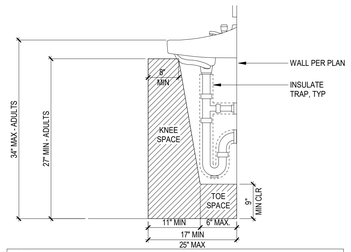
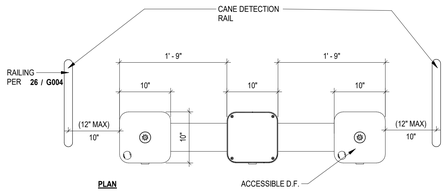
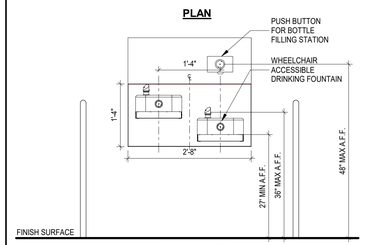



**NOTE:**
PER CBC, SECTION 11B-606.5 - WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURES TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS

**15** ACCESSIBLE SINK
3/4" = 1'-0"

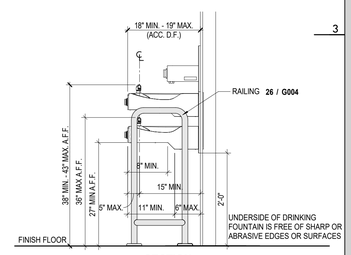



**PLAN**



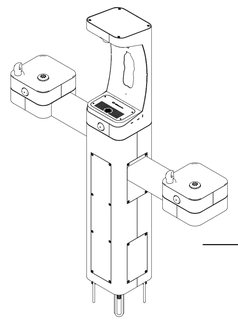

**ELEVATION**

3



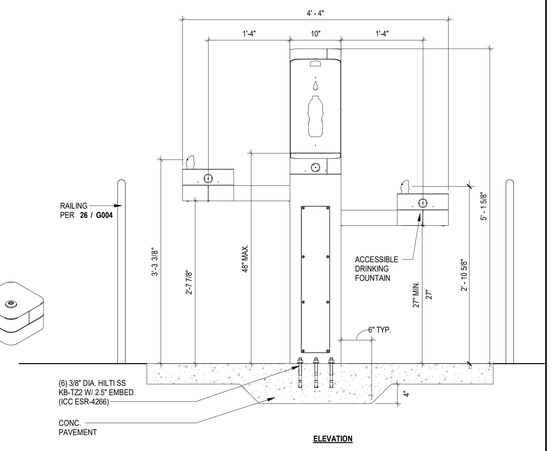

**SECTION**

NOTES
-MFR: HAWS
-MODEL: 1117LN, W/ BTL 1107
-DESCRIPTION: ADA LOW PROFILE VANDAL - DUAL FOUNTAIN AND BOTTLE FILLER BUNDLE
-SPOUT TO PROVIDE A FLOW OF WATER 4" HIGH MIN.



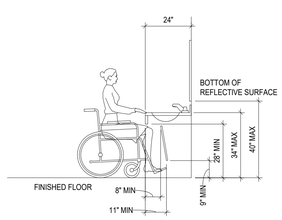
DRINKING FOUNTAIN

MFR: HAWS
MODEL: 3612F
HOSE BIB MODEL: HAWS 3660
REFER TO MODULAR DRAWINGS SHEET **P2.01**




**ELEVATION**

**8** D.F. PEDESTAL
1" = 1'-0"



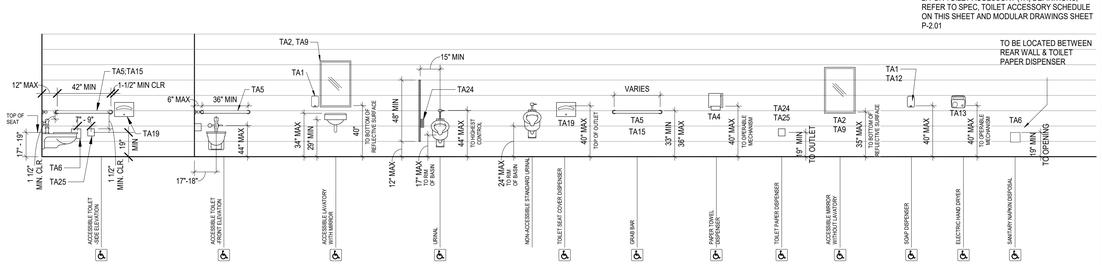

**9** ACCESSIBLE VANITY
3/8" = 1'-0"

**7** ACCESSIBLE DRINKING FOUNTAIN
3/4" = 1'-0"

2

**NOTES:**
1. ALL FIXTURE SIZES , MOUNTING HEIGHTS, AND CLEARANCES MUST ABIDE BY ADA STANDARDS.

2. FOR TOILET ACCESSORY (TA) DEFINITIONS, REFER TO SPEC, TOILET ACCESSORY SCHEDULE ON THIS SHEET AND MODULAR DRAWINGS SHEET P-2.01




**3** TOILET FIXTURE & ACCESSORY - ADULT HEIGHTS
1/4" = 1'-0"

1

G F E D C B A

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **9216-654**
PTN No.: **64725-585**
**Facilities Management**

Stamps

LICENSED ARCHITECT
Kong Tao
No. C-31162
SIGN: 10-31-2027
STATE OF CALIFORNIA

Architect

**PBK**
**ARCHITECT**
8163 ROCHESTER AVE.
SUITE 100
RANCHO CUCAMONGA, CA
91730
Tel: 909-987-0909
www.pbk.com

Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

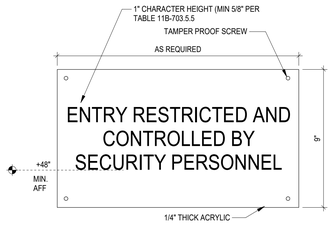
JOB No.: 240469
SCALE: As indicated
PROJ MGR:
DATE: 11/21/25

Sheet Title

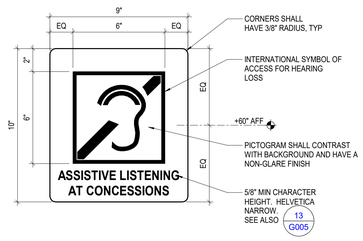
**ACCESSIBILITY DETAILS**

Sheet No.

**G004**




## 25 SECURITY PERSONNEL SIGN
3" = 1'-0"



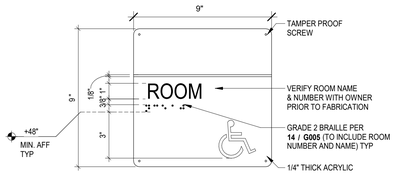

NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC W/ 1/32" RAISED LETTERS
2. MOUNT W/ VANDAL RESISTANT FASTENERS
3. PROVIDE MINIMUM OF 4% OF THE TOTAL NUMBER OF SEATS PER CBC 11B-219 AND NOT LESS THAN 2) 25% MIN. OF RECEIVERS PROVIDED, BUT NO FEWER THAN (2) SHALL BE HEARING-AID COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3.

| AREA | # OF OCC. | TOTAL # OF RECEIVERS (# OF OCC. X 0.04) | HEARING - AID RECEIVERS AND NECKLOOPS |
|---|---|---|---|
| BLEACHERS | 121 | 121 x 4% = **5** | 5 x 25% = **2** |

PROVIDE FM ASSISTIVE LISTENING SYSTEM WITH REMOTE-MOUNTED VERTICAL ANTENNA LOCATED BEHIND BLEACHERS AT CENTERLINE, MOUNTED MINIMUM 10 FT ABOVE GRADE, PROVIDING FULL COVERAGE OF ALL SEATING AREAS.

NOTE: SEE PROJECT SPECIFICATIONS SECTION 27 51 26 FOR THE PERMANENT ASSISTIVE LISTENING SYSTEM (ALS) REQUIREMENTS AND THE ALS COMPONENTS, TO FURNISH.

## 20 ASSISTIVE LISTENING SYSTEM
3" = 1'-0"



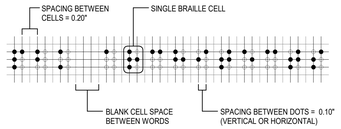

**NOTE:**
MOUNTING HEIGHT SHALL BE MAXIMUM 60" A.F.F. TO BASELINE OF HIGHEST LINE OF RAISED CHARACTERS AND MINIMUM 48" A.F.F. TO BASELINE OF LOWEST LINE OF BRAILLE CELLS.

SIGNAGE TO BE MOUNTED ON WALL, DOOR OR GLASS AS NECESSARY PER DESIGN

## 15 SIGNAGE ROOM
3" = 1'-0"

**BRAILLE REQUIREMENTS PER 2022 CBC 11B-703.3:**

1. CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED
2. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE
3. DOT BASE DIAMETER = 0.059 TO 0.063 INCHES
4. DOT HEIGHT = 0.025 TO 0.037 INCHES
5. SPACING BETWEEN DOTS AND CELLS PER BELOW




## 14 BRAILLE STANDARDS FOR SIGNAGE
6" = 1'-0"

CHARACTER REQUIREMENTS:

**A. CHARACTER REQUIREMENTS FOR ALL SIGNS PER 2022 CBC 11B-703:**

1. 3 CHARACTERS SHALL BE UPPERCASE.
2. CHARACTERS SHALL BE SANS SERIF. CHARTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
3. CHARACTER SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
4. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
5. TEXT SHALL BE IN HORIZONTAL FORMAT.
6. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH ONE ANOTHER

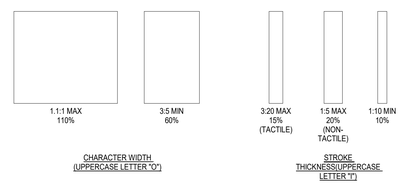
**B. RAISED CHARACTER REQUIREMENTS FOR SIGNS WITH BRAILLE PER 2022 CBC 11B-703.2:**

1. RAISED CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. RAISED CHARACTERS SHALL BE 1/32 INCH MIN ABOVE BACKGROUND.
3. RAISED CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. CHARACTER SPACING BETWEEN INDIVIDUAL RAISED LETTERS SHALL BE 1/8 INCH MINIMUM AND FOUR (4) TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.

**C. VISUAL CHARACTER REQUIREMENTS FOR SIGNS WITHOUT BRAILLE PER 2022 CBC 11B-703.5:**

1. VISUAL CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. MINIMUM CHARACTER HEIGHT SHALL CONFORM TO 2022 CBC TABLE 11B-703.5.5 BUT IN NO CASE SHALL BE LESS THAN 5/8 INCH.
3. HEIGHT FROM FINISH FLOOR SHALL BE NO LESS THAN 40 INCHES.
4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

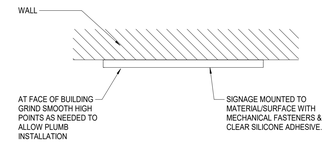
**CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS.**




## 13 CHARACTER REQ. FOR SIGNAGE
1 1/2" = 1'-0"

NOTE:
PROVIDE SPACES AS NEEDED SO SIGNAGE IS WITHIN 3" OF DOOR FRAME

**MOUNTING AT WALL**




## 22 IDENTIFICATION SIGNAGE
3" = 1'-0"

### KEYNOTES

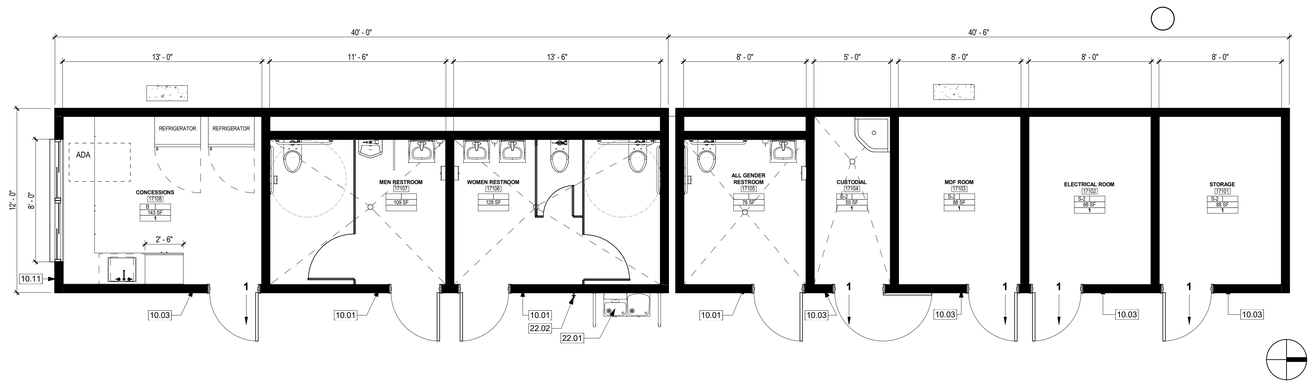
| | |
|---|---|
| 10.01 | WALL MOUNTED RESTROOM SIGNAGE, RE: 4/G005 |
| 10.03 | WALL MOUNTED RESTROOM SIGNAGE, RE: 15/G005 |
| 10.11 | (N) ASSISTIVE LISTENING SYSTEM SIGNAGE, REFER TO 20/G005 |
| 22.01 | HI-LO DRINKING FOUNTAIN PER 7/G004 |
| 22.02 | HOSE BIB PER MODULAR BUILDING SHEETS |

**BUILDING CODE ANALYSIS**

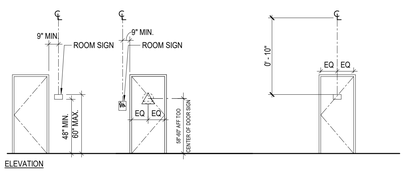
| BUILDING DESIGNATION | OCCUPANCY CLASSIFICATION (CHAP. 3) | ACTUAL BUILDING FLOOR AREA (SQ FEET) | OCCUPANCY SEPARATION (CBC TABLE 508.4) | TYPE OF CONSTRUCTION (CBC CHAP.6) | AUTOMATIC FIRE SPRINKLER | ALLOWABLE BLDG HEIGHT (FEET) (CBC TABLE 504.3) | ALLOWABLE #OF STORIES (FEET) (CBC TABLE 504.4) | ALLOWABLE BUILDING AREA CALCULATION (PER TYPE OF CONSTRUCTION) (CBC TABLE 506.2) |
|---|---|---|---|---|---|---|---|---|
| BUILDING 1000 | B W/ ACCESSORY STORAGE | 960 SF | N/A | V-B (CATEGORY I & II) | NO | OCC: S-1 (NS) 55'-00 | OCC: S-1 (NS) 2 STORIES | TYPE: V-B(NS) OCC:S-1=9,000 SF ALLOWED |
| | | | | | | **ACTUAL BLDG HT (FEET)** | **ACTUAL # OF STORIES** | **ACTUAL AREA IN SF** |
| | | | | | | 10'-0" OK | 1 (OK) | 966 SF |

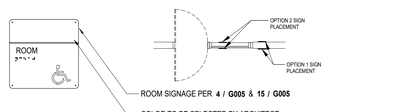
**PLUMBING FIXTURES COUNT ANALYSIS**

| | TYPE OF FIXTURE | # OF FIXTURES REQUIRED PER 422.1 (BASED ON 50% OF ASSEMBLY FIXED SEATING VALUE) **121 TOTAL ASSEMBLY USERS / 2 = 61+5 / 2 = 33 33 MALE OCCUPANTS: 33 FEMALE OCCUPANTS** | # OF ACCESSIBLE FIXTURES REQUIRED (BASED ON REQUIRED PERCENTAGE OF TOTAL FIXTURES) PER 11B- 211 & 11B-213 | # OF FIXTURES PROVIDED | | |
|---|---|---|---|---|---|---|
| | | | | **BLDG 1000** | | **TOTAL PROVIDED** |
| | | | | STANDARD | ACCESSIBLE | |
| MALE: 33 OCCUPANTS | WATER CLOSET | REQUIRED: 1 FOR EVERY 100 USERS TOTAL TOILETS REQUIRED: 1 | 5% | 1 | 1 | 2 |
| | URINAL | REQUIRED: 1 FOR EVERY 100 USERS TOTAL URINALS REQUIRED: 1 | 10% | - | 1 | 1 |
| | LAVATORY | REQUIRED: 1 FOR EVERY 200 USERS TOTAL LAVATORIES REQUIRED: 1 | 10% | - | 1 | 1 |
| FEMALE: 33 OCCUPANTS | WATER CLOSET | REQUIRED: 2 FOR EVERY 50 USERS TOTAL TOILETS REQUIRED: 2 | 5% | 1 | 1 | 2 |
| | LAVATORY | REQUIRED: 1 FOR EVERY 100 USERS TOTAL LAVATORIES REQUIRED: 1 | 10% | 1 | 1 | 2 |
| | DRINKING FOUNTAIN | REQUIRED: 1 FOR EVERY 250 USERS TOTAL DRINKING FOUNTAINS REQUIRED: 1 | 50% | - | 2 | 2 |




## 3 MODULAR BUILDING - CODE ANALYSIS
1/4" = 1'-0"



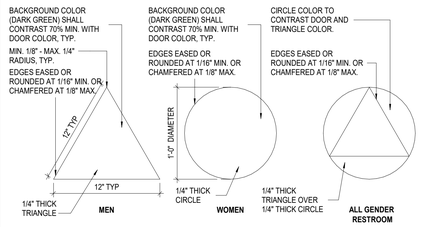




(A) BUILDING ENTRY ROOM SIGN

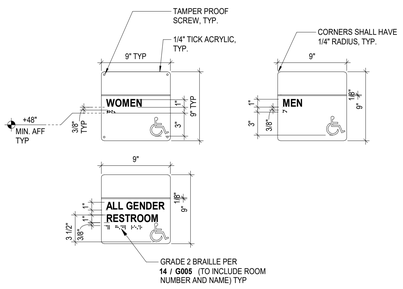
NOTES:

1. FOR CHARACTER TYPE & BRAILLE, SEE ALSO DETAIL **13 / G005** & **14 / G005**
2. SIGN MATERIAL SHALL BE PAINTED, 1/8" THICK ES PLASTIC USING GRAPHIC PROCESS SAND-CARVED W/ 3/32" RAISED GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ COUNTERSUNK. VANDAL RESISTANT #8 FASTENERS. MOUNT ON GLAZING WITH CLEAR SILICONE ADHESIVE AND A SECOND SIGN OR BLANK ALIGNED ON THE OTHER SIDE OF GLAZING TO MASK THE ADHESIVE.
3. PROVIDE ONE SIGN WHERE INDICATED ON PLANS OR SCHEDULE.
4. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING IS LIMITED TO 90 DEGREES, MOUNT SIGN 9" FROM EDGE OF DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING EXCEEDS 90 DEGREES, MOUNT SIGN DOOR WIDTH PLUS 9" FROM EDGE OF DOOR.

## 5 ROOM IDENTIFICATION SIGNAGE
1 1/2" = 1'-0"




(B) DOOR SIGNAGE




(A) WALL SIGNAGE

*60" MAX A.F.F. TO THE BASE LINE OF THE HIGHEST TEXT & 48" MIN. A.F.F. TO THE BASE LINE OF THE LOWEST BRAILLE CELLS

NOTE:
FOR CHARACTER TYPE AND BRAILLE REQUIREMENTS SEE DETAILS 13 / G005 & 14 / G005 .
DOORS SYMBOLS SHALL BE MOUNTED AT 58"-60" ABOVE GROUND OR FLOOR SURFACE.

## 4 RESTROOM DOOR & WALL SIGNS
1 1/2" = 1'-0"

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | **9216-654** |
| PTN No.: | **64725-585** |

**Facilities Management**

Stamps

LICENSED ARCHITECT Hong Tao No. C-31162 REN. 10-31-2027 STATE OF CALIFORNIA

Architect

**PBK ARCHITECT**
8163 ROCHESTER AVE.
SUITE 100
RANCHO CUCAMONGA, CA 91730
Tel: 909-987-0909
www.pbk.com

Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

**SIGNAGE AND ACCESSIBILITY DETAILS**

Sheet No.

**G005**

## GENERAL NOTES

1. THE CONTRACTOR SHALL REFER TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (S.S.P.W.C.) OR GREENBOOK, LATEST VERSION FOR CONSTRUCTION METHODS AND MATERIALS UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE JOBSITE,
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIAL AND EQUIPMENT STORED ON THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIALS IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES AND AFTER WORKING HOURS, UNTIL PROJECT COMPLETION.
5. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS NOTED OTHERWISE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND CONSTRUCTION INSPECTIONS WITH THE PROPER REGULATORY AGENCIES, PRIOR TO BEGINNING CONSTRUCTION. COPIES OF ALL PERMITS SHALL BE SENT TO THE ENGINEER.
7. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN RIGHT-OF-WAYS.
8. TOPOGRAPHIC SURVEY BY:
   DMC ENGINEERING
   18 TECHNOLOGY DRIVE, SUITE 100
   IRVINE, CA 92618
   TEL: (949) 753-0393
   WWW.DMCENG.COM

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON CITY OF LONG BEACH BENCH MARK #1376
ELEVATION = 30.662 FT
NGVD 29 MSL 1985

BASIS OF BEARING: THE BEARING OF THE CENTERLINE OF LONG BEACH BLVD BEING N 00° 07' 36" E PER CALIFORNIA STATE PLANE COORDINATES, NAD 83, ZONE 5, EPOCH 2017.5

9. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING THE SURVEYOR AND VERIFYING THE BENCHMARK AND ON SITE TBM'S IN THE FIELD.
10. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM ON THE GROUND OBSERVATION AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE ENTIRE TOPOGRAPHY, CONTOURS, SUB-SURFACE SOILS, AS WELL AS THE LOCATION AND NATURE OF PIPELINES, STORM SEWERS, WATERLINES, NATURAL GAS LINES, UNDERGROUND CABLES, ECT. HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED.
11. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, SIZES, AND DEPTHS OF ALL UTILITIES. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IF UTILITIES SHOWN ARE NOT AS SPECIFIED.
12. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.) REGULATIONS.
13. ALL WORK IS TO BE DONE IN ACCORDANCE WITH APPLICABLE NATIONAL, STATE, MUNICIPAL, AND LOCAL CODES.
14. IT IS THE CONTRACTORS RESPONSIBILITY TO SUPERVISE AND COORDINATE ALL WORK TO ENSURE THE PROPER EXECUTION. ALL WORK IS TO BE ACCOMPLISHED IN A NEAT, WORKMAN LIKE MANNER, AND ALL EXCESS MATERIALS, TRASH, DEBRIS, ECT., SHALL BE REMOVED FROM THE JOB BY THE CONTRACTOR, AT THEIR EXPENSE.
15. THE CONTRACTOR SHALL INCLUDE IN HIS BID AS AN INCIDENTAL ITEM FOR THE REMOVAL OF ANY EXISTING SIGNAGE THAT IS IN THE WAY OF THE PROPOSED NEW CONSTRUCTION. IF REMOVAL OF SIGNAGE IS NECESSARY, THE CONTRACTOR SHALL REPLACE SAID SIGNAGE.
16. THE CONTRACTOR SHALL KEEP ALL ACTIVE WALKWAYS FREE OF DIRT, MUD,ETC. DURING THE COURSE OF CONSTRUCTION.
17. THE CONTRACTOR SHALL NOT LEAVE ANY TRENCHES OR PITS OPEN OVER NIGHT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE SCHOOL CHILDREN OUT OF WORK AREA.
18. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA PRIOR TO COMMENCING WORK IN ANY RIGHT-OF-WAY OR EXISTING EASEMENT. A VERIFICATION NUMBER FROM THE ONE-CALL UTILITY COORDINATING COMMITTEE WILL BE REQUIRED.
19. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO RELOCATE EXISTING POWER POLE(S) AND/OR UTILITY BOX(ES) OR ANY OTHER UTILITIES DEEMED NECESSARY BY THE ENGINEER.
20. CONDITION OF THE SCHOOL SITE AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
21. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

### UTILITY NOTES

22. CONTRACTOR SHALL FOLLOW LBUSD SPECIFICATION SECTION 33 11 00 SITE WATER DISTRIBUTION FOR ALL POTABLE WATER PIPE CONSTRUCTION AND SECTION 33 30 00 SITE SANITARY SEWER SYSTEMS FOR ALL SEWER PIPE CONSTRUCTION.
23. THE CONTRACTOR SHALL FOLLOW S.S.P.W.C. APPICABLE SECTIONS FOR ADJUSTING EXISTING UTILITY FEATURES TO PROPOSED GRADE.
24. THE CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND STATE OF CALIFORNIA LAW CONCERNING EXCAVATION. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
25. CONTRACTOR SHALL INCLUDE IN BASE PROPOSAL ALL COSTS ASSOCIATED WITH DE-WATERING WELL POINTING, STABILIZING, ETC. THAT MAY BE REQUIRED TO INSTALL ANY AND ALL UNDERGROUND UTILITIES.
26. ROOF DRAIN AND DOWNSPOUT COLLECTOR LINES SHALL BE PVC, SDR-26 PIPE (ASTM D2241) OR SCHEDULE 40 PIPE. LAID AT A MINIMUM GRADE OF 0.50% UNLESS NOTED OTHERWISE. COLLECTOR LINES SHALL BE SIZE ON SIZE AND 6" MINIMUM FOR DOWNSPOUTS. ONCE TWO OR MORE ROOF DRAINS / DOWNSPOUTS ARE CONNECTED THE COLLECTOR LINE (RD AND/OR DS) SHALL BE 12" UNLESS NOTED OTHERWISE. NO 90° BENDS SHALL BE USED. ALL BENDS IN LINES SHALL BE MADE WITH EITHER "WYES" OR DOUBLE 45° BENDS. REFER TO THE ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF GUTTER DOWNSPOUTS AND/OR MEP SHEETS FOR EXACT LOCATION/ SIZES OF ROOF DRAINS. WHERE DOWNSPOUT COLLECTORS ARE LOCATED IN PAVED AREAS, PROVIDE A 24"X24" BLOCK OUT AROUND PIPE. REFER TO DETAILS.
27. EXISTING UTILITIES SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PERIOD UNTIL SUCH TIME THAT NEW UTILITIES CAN BE MADE OPERATIONAL.
28. TELEPHONE COMPANY FACILITIES MAY EXIST ON THE PROPERTY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT BE OCCASIONED BY A FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL 811, A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF TELEPHONE FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE TELEPHONE FACILITIES. WHEN TELEPHONE FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT
29. CAUTION: UNDERGROUND GAS FACILITIES
    GAS LINES (TO INCLUDE UNIT GAS TRANSMISSION AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) MAY EXIST ON THE PROPERTY. SERVICE LINES ARE USUALLY NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICES LINES FIELD LOCATED.
30. WARNING: OVERHEAD ELECTRICAL FACILITIES
    OVERHEAD LINES MAY EXIST ON THE PROPERTY. THESE LINES ARE CLEARLY VISIBLE, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION.

### PAVING AND GRADING NOTES

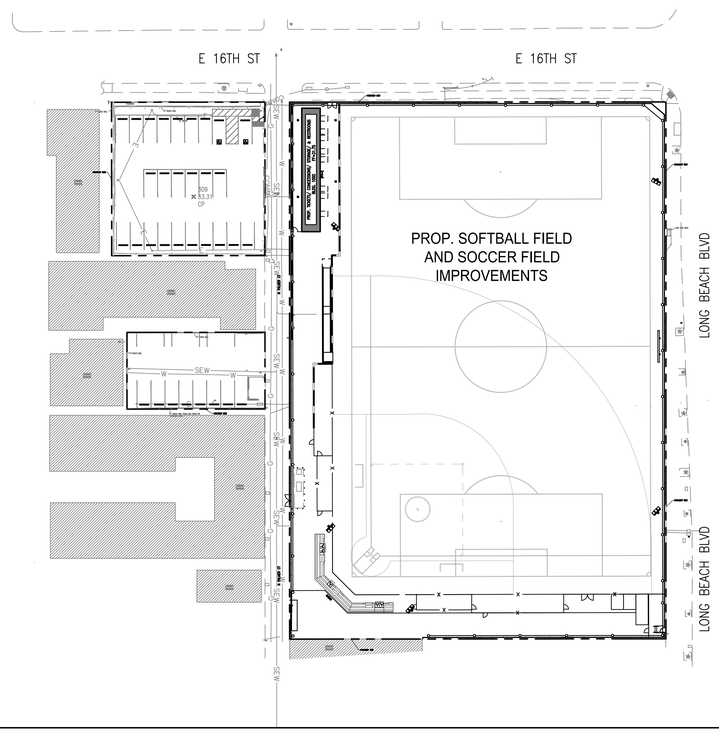
31. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS AND CONSTRUCTION METHODS DESCRIBED IN GEOTECHNICAL EVALUATION REPORT PRODUCED BY NV5, INC. ON OCTOBER 8, 2025.
32. CONTRACTOR SHALL VERIFY THE EXISTING ELEVATIONS AND SITE CONDITIONS OF WHERE PROPOSED IMPROVEMENTS MEET EXISTING SITE FEATURES. IF EXISTING ELEVATIONS SHOWN ON PLANS DO NOT MATCH FIELD CONDITIONS, CONTRACTOR MUST CONTACT THE ENGINEER.
33. ALL SITE WORK PORTLAND CEMENT CONCRETE GUTTER CONSTRUCTION MUST COMPLY WITH S.S.P.W.C. SECTION 303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS.
34. ALL SITE WORK AGGREGATE BASE (AGG. BASE) MATERIAL MUST COMPLY WITH S.S.P.W.C. SECTION 200-2.2 CRUSHED AGGREGATE BASE.
35. ALL ASPHALT CONCRETE (AC) MATERIAL SHALL BE "TYPE III-C3-PG-64-10' AND CONSTRUCTION METHODS MUST COMPLY WITH S.S.P.W.C. SECTION 203-6.
36. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN TO THE ENGINEER FOR APPROVAL, PRIOR TO PLACING CONCRETE AT JOBSITE.
37. REFERENCE THE ARCHITECTURAL SITE PLAN FOR SIDEWALK JOINT PATTERN. SIDEWALK JOINTS SHALL ALIGN WITH PAVING JOINTS WHEN SIDEWALK IS ADJACENT TO PAVING.
38. THE INLETS/MANHOLES SHALL BE COORDINATED WITH THE LOCATION OF PAVEMENT JOINT PATTERN WITHIN PAVEMENT AREAS.
39. EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN THE BUILDING AND PERIMETER CONCRETE PAVING.
40. SAWED JOINTS & TRANSVERSE JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS.
41. SAWING OF JOINTS MUST BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO AVOID EXCESSIVE RAVELING. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
42. THE CONTRACTOR SHALL REPLACE ANY DAMAGED AND/OR REMOVED CONCRETE PAVEMENT, CURB AND/OR WALK TO EQUAL OR BETTER THAN EXISTING CONDITION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INCLUDE ANY CONCRETE PAVEMENT, CURB OR WALK REMOVAL AND REPLACEMENT IN HIS BID AS AN INCIDENTAL TO THE COST OF CONSTRUCTION.
43. THE CONTRACTOR SHALL GRADE THE SITE AS INDICATED BY THE CONTOUR LINES, DIRECTIONAL ARROWS AND ELEVATIONS SHOWN ON DRAWINGS. ALL GRADING SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
44. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING SILT FENCE OR PLACING SQUARE HAY BALES AT ALL POINTS WHERE STORMWATER RUNOFF EXITS THE SCHOOL PROPERTY, AND AT ALL STORM SEWER INLETS AND MANHOLES, TO PREVENT SEDIMENT CONTAMINATION OF THE EXISTING DRAINAGE ARTERIES AND NEW STORM SEWERS DURING CONSTRUCTION OF OF THIS PROJECT. REFERENCE "STORM WATER POLLUTION PREVENTION PLAN".
45. SITE TO BE CLEARED OF VEGETATION AND DEBRIS AS NECESSARY TO COMPLETE PROJECT OR AS DIRECTED BY ENGINEER. STRIPPINGS, IF CLEAN, ARE TO BE STOCKPILED AND USED AS DRESSING FOR GRADING, OTHERWISE THE STRIPPINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
46. ALL EXCESS DEBRIS, TREES, AND/OR WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. ALL ASSOCIATED COST SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
47. BACKFILL TO TOP OF NEW PAVEMENT OR CURBS WITH CLEAN SOIL FREE OF CLODS. ALL DISTURBED AREAS AND AREAS REQUIRING GRADING SHALL BE FINE GRADED. REMOVE ALL TRASH/DEBRIS AND PROVIDE A SMOOTH SURFACE FOR PROPER TURF MANAGEMENT. HYDROMULCH DISTURBED AREAS NOT NOTED TO BE SOLID SOD OR AS DIRECTED BY THE ENGINEER.
48. PAVEMENT GRADES SHALL VARY UNIFORMLY BETWEEN ELEVATIONS SHOWN.
49. FILL AREAS NOTED ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH LAYER COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY. FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.
50. CONTRACTOR SHALL INSTALL A GRASS SOLID SOD ADJACENT TO ALL PROPOSED CURBS, DRIVES AND /OR WALKS.
51. MATCH ALL ELEVATIONS WHERE PROPOSED PAVEMENT ADJOINS EXISTING PAVEMENT.
52. PRIOR TO ANY CHEMICAL STABILIZATION OF SOIL WITH LIME, FLY ASH OR ANY OTHER MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER, CONTRACTOR SHALL HAVE A THIRD PARTY TESTING LAB PERFORM A SOIL ANALYSIS, INCLUDING BUT NOT LIMITED TO A LIME SERIES TEST, TO CONFIRM THE REQUIRED APPLICATION RATE OF THE CHEMICAL USED FOR STABILIZATION.
53. HYDROMULCH ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED. HYDROMULCH TO BE INSTALLED 90 DAYS PRIOR TO SUBSTANTIAL COMPLETION OR AS SOON AS POSSIBLE IN ORDER TO ESTABLISH GROW-IN PER SPEC. ALTERNATIVELY, GENERAL CONTRACTOR TO PROVIDE SOLID SOD IN LIEU OF HYDROMULCH.

## GENERAL NOTES

## CIVIL LEGEND

| | |
|---|---|
| AB | AGGREGATE BASE |
| AC | ASPHALT CONCRETE |
| EG | EXISTING GRADE |
| FF | FINISHED FLOOR ELEVATION |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FS | FINISHED SURFACE ELEVATION |
| PCC | PORTLAND CEMENT CONCRETE |
| PROP | PROPOSED |
| TC | TOP OF CURB |
| TG | TOP OF GRATE |
| TP | TOP OF PAVEMENT |
| TR | TOP OF RIM |
| TYP | TYPICAL |
| | PROPOSED SITE DRAIN |
| | UTILITY CAP |
| | PROPOSED 45° ELBOW |
| E | EXISTING ELECTRICAL LINE |
| COM | EXISTING COMMUNICATION LINE |
| G | EXISTING GAS LINE |
| W | EXISTING WATER LINE |
| SEW | EXISTING SEWER LINE |
| SD | EXISTING STORM LINE |
| W | PROPOSED WATER LINE |
| SEW | PROPOSED SEWER LINE |
| | UTILITY LINE REMOVAL |
| X | PROPOSED CHAIN LINK FENCE |
| | PROPOSED METAL PANEL FENCE |
| | PROPERTY ROW LINE |
| | MATCHLINE |
| | VARYING HEIGHT RETAINING WALL |
| 33.4 | PROPOSED GRADING CONTOUR |
| (33.4) | EXISTING GRADING CONTOUR |
| -1.50% | PROPOSED GRADING SLOPE |
| | FLOW DIRECTION |
| 195.00 LN-FT<br>N89° 52' 23.02" W | DISTANCE AND BEARING |
| POINT 2<br>N 1744937.92<br>E 6504048.24 | NORTHING, EASTING POINT |
| | PROPOSED MUSCOE LIGHTPOLE |
| 9.89' | DIMENSION |
| | CONCRETE WASTE MANAGEMENT (WM-8) |
| | STOCKPILE MANAGEMENT (WM-3) |
| | TEMPORARY CONSTRUCTION ENTRANCE (TC-1) |
| | TEMPORARY DRAINAGE INLET PROTECTION (SC-10) |
| POI | GATE VALVE & BOX |

## SITE PLAN

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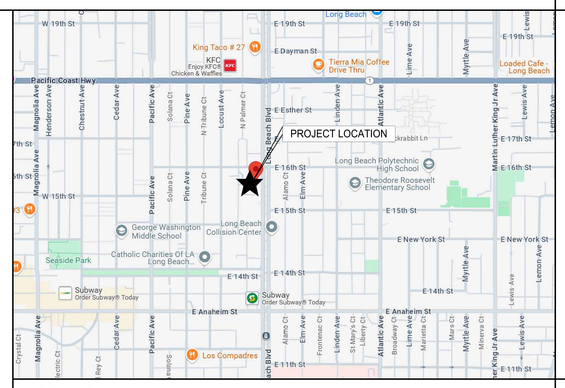
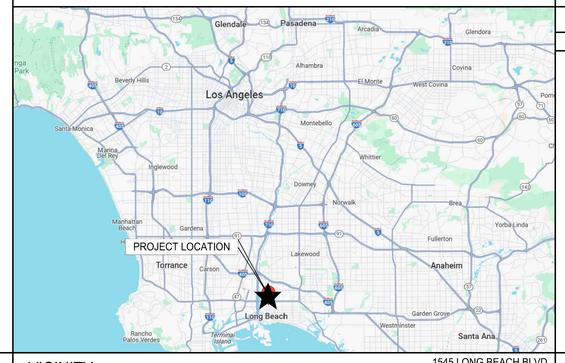



## VICINITY




1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

## PERMITTING INFORMATION

## INDEX OF DRAWINGS


| SHEET | DESCRIPTION |
|---|---|
| C001 | NOTES, INDEX, AND LEGENDS |
| C002 | SURVEY (FOR INFORMATION ONLY) 1 OF 3 |
| C003 | SURVEY (FOR INFORMATION ONLY) 2 OF 3 |
| C004 | SURVEY (FOR INFORMATION ONLY) 3 OF 3 |
| C005 | DEMOLITION PLAN (1 OF 2) |
| C006 | DEMOLITION PLAN (2 OF 2) |
| C103 | DIMENSIONAL CONTROL PLAN (1 OF 2) |
| C104 | DIMENSIONAL CONTROL PLAN (2 OF 2) |
| C201 | GRADING AND PAVING PLAN (1 OF 3) |
| C202 | GRADING AND PAVING PLAN (2 OF 3) |
| C203 | GRADING AND PAVING PLAN (3 OF 3) |
| C204 | WET UTILITY PLAN (1 OF 2) |
| C205 | WET UTILITY PLAN (2 OF 2) |
| C310 | RETAINING WALL PLAN AND PROFILE (1 OF 2) |
| C311 | RETAINING WALL PLAN AND PROFILE (2 OF 2) |
| C401 | CIVIL DETAILS |
| C701 | EROSION CONTROL PLAN |
| C702 | EROSION CONTROL PLAN DETAILS |


PROJECT NAME:
POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

LEGAL DESCRIPTION:
REFER TO SIGNED TOPOGRAPHIC SURVEY BY DMC ENGINEERING
FOR RIGHT-OF-WAY/PROPERTY LINE INFORMATION

PHYSICAL ADDRESS:
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

ACREAGE OF PROPOSED SITE:
1.97 ACRES

TOTAL ACREAGE OF EXISTING LOT:
1.97 ACRES

EARTHWORK:
1133 CY CUT
748 CY FILL
385 CY NET CUT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

REGISTERED PROFESSIONAL ENGINEER
MICHAEL CATTABIANI
C 95778
Exp. 03-31-2028
CIVIL
STATE OF CALIFORNIA

**PBK**
**ARCHITECT**
8163 ROCHESTER AVE.
SUITE 100
RANCHO CUCAMONGA, CA
91730
Tel: 909-987-0909
www.pbk.com

**DIG ENGINEERS**
2400 E KATELLA AVE.
ANAHEIM, CA 92806
Tel: 949-648-5000
CONTACT: MICHAEL CATTABIANI

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENT**

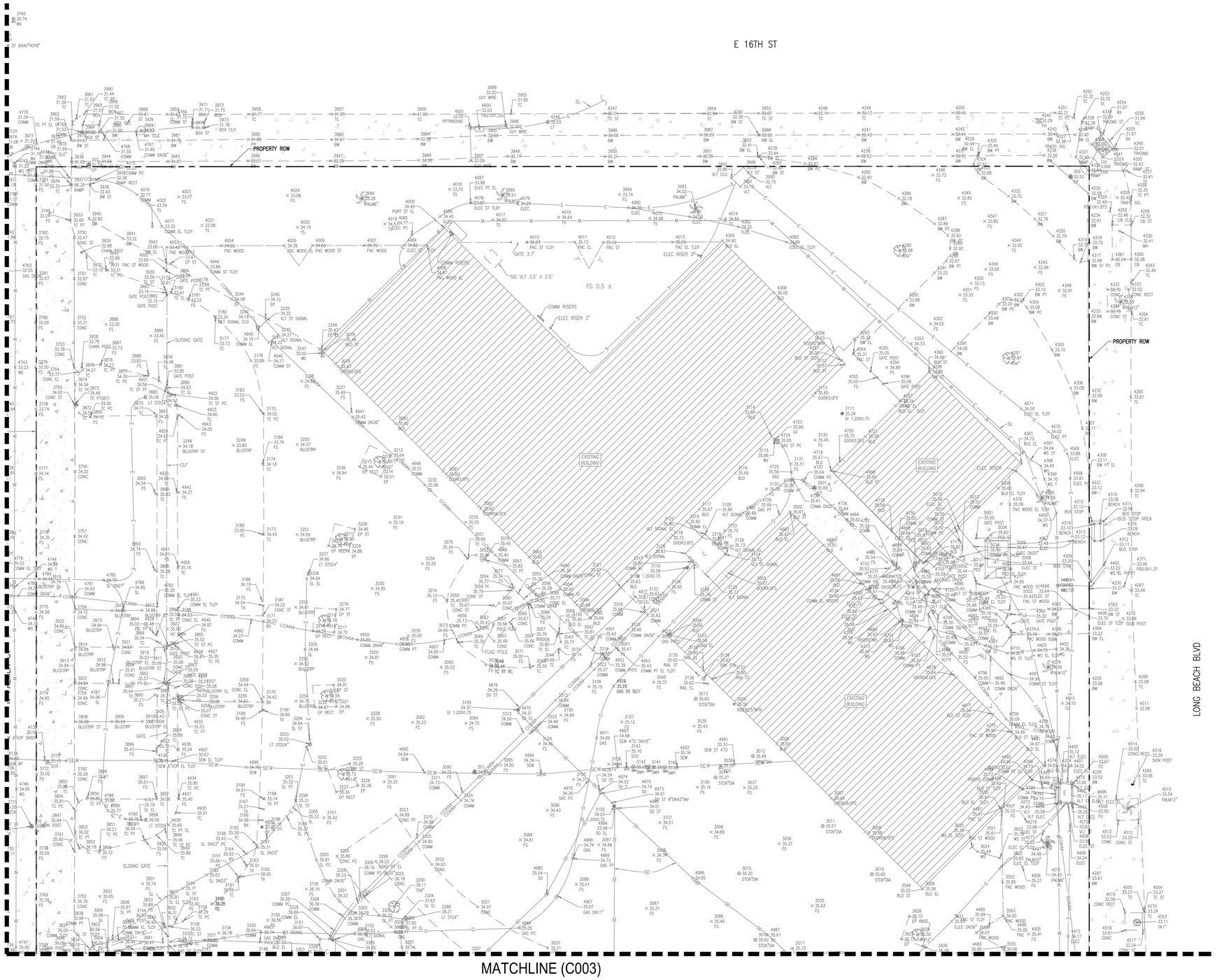
DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
|---|---|---|

JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
DATE: 11/10/25

NOTES, INDEX, AND LEGEND

**C001**




NORTH

SCALE: 1" = 10'

TOPOGRAPHIC SURVEY BY:
DMC ENGINEERING
18 TECHNOLOGY DRIVE, SUITE 100
IRVINE, CA 92618
TEL: (949) 753-9393
WWW.DMCENG.COM

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON CITY OF LONG BEACH BENCH MARK #1376
ELEVATION = 30.662 FT
NGVD 29 MSL 1985

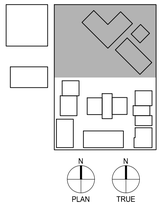
BASIS OF BEARING: THE BEARING OF THE CENTERLINE OF LONG BEACH BLVD BEING N 00° 07' 36" E PER CALIFORNIA STATE PLANE COORDINATES, NAD 83, ZONE 5, EPOCH 2017.5

LEGEND

PROPERTY ROW LINE

MATCHLINE

KEY PLAN

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1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

100% CONSTRUCTION DOCUMENT

DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
|---|---|---|

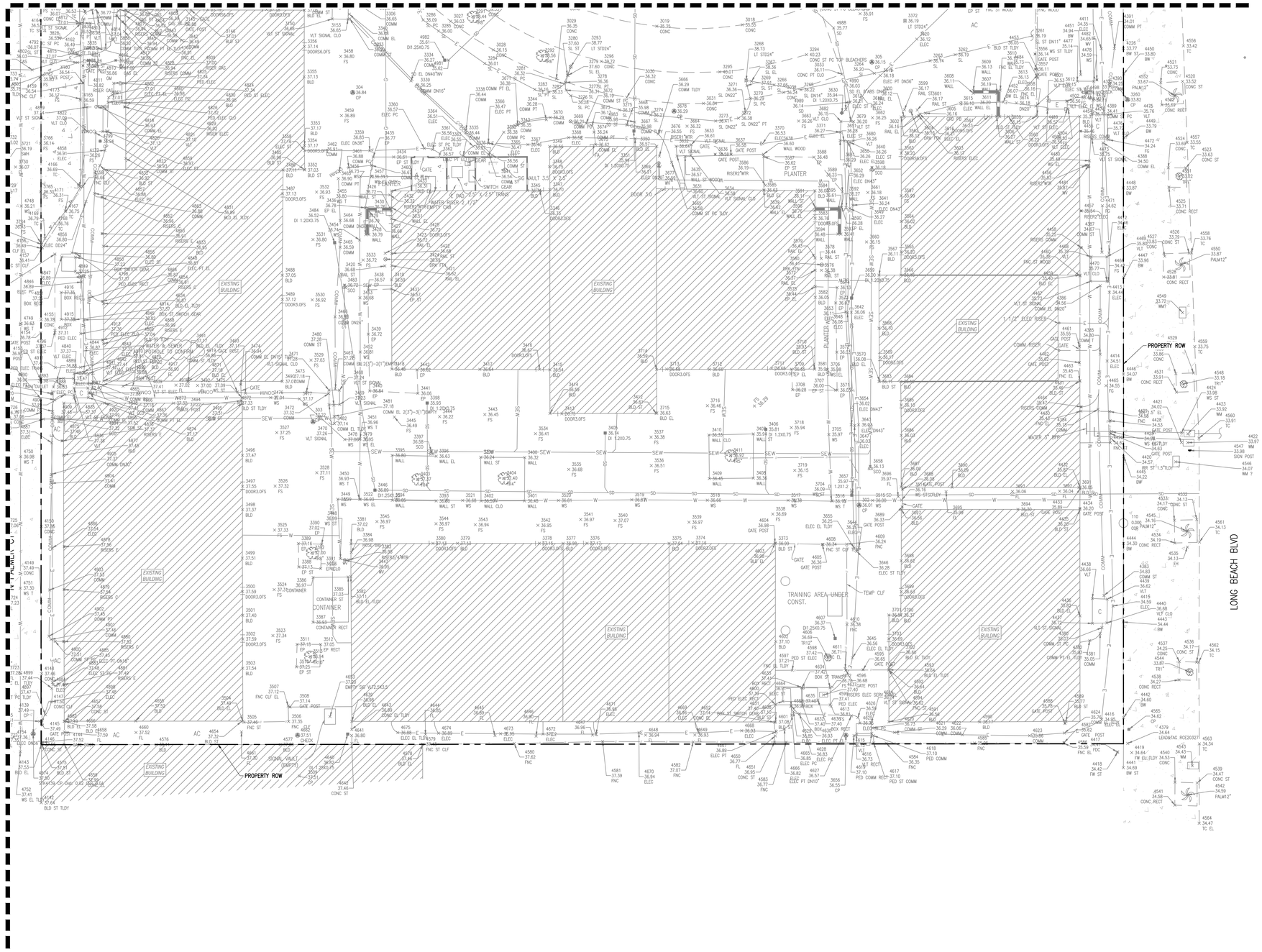
JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
DATE: 11/10/25

SURVEY (FOR INFORMATION ONLY) 1 OF 3

**C002**

MATCHLINE (C002)

MATCHLINE (C004)




NORTH

SCALE: 1" = 10'

TOPOGRAPHIC SURVEY BY:
DMC ENGINEERING
18 TECHNOLOGY DRIVE, SUITE 100
IRVINE, CA 92618
TEL: (949) 753-9393
WWW.DMCENG.COM

BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED ON CITY OF LONG BEACH BENCH MARK #1376
ELEVATION = 30.652 FT
NGVD 29 MSL 1985

BASIS OF BEARING: THE BEARING OF THE CENTERLINE OF LONG BEACH BLVD BEING N 00° 07' 36" E PER CALIFORNIA STATE PLANE COORDINATES, NAD 83, ZONE 5, EPOCH 2017.5

LEGEND

PROPERTY ROW LINE

MATCHLINE

KEY PLAN

N PLAN

N TRUE

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1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENT**

DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
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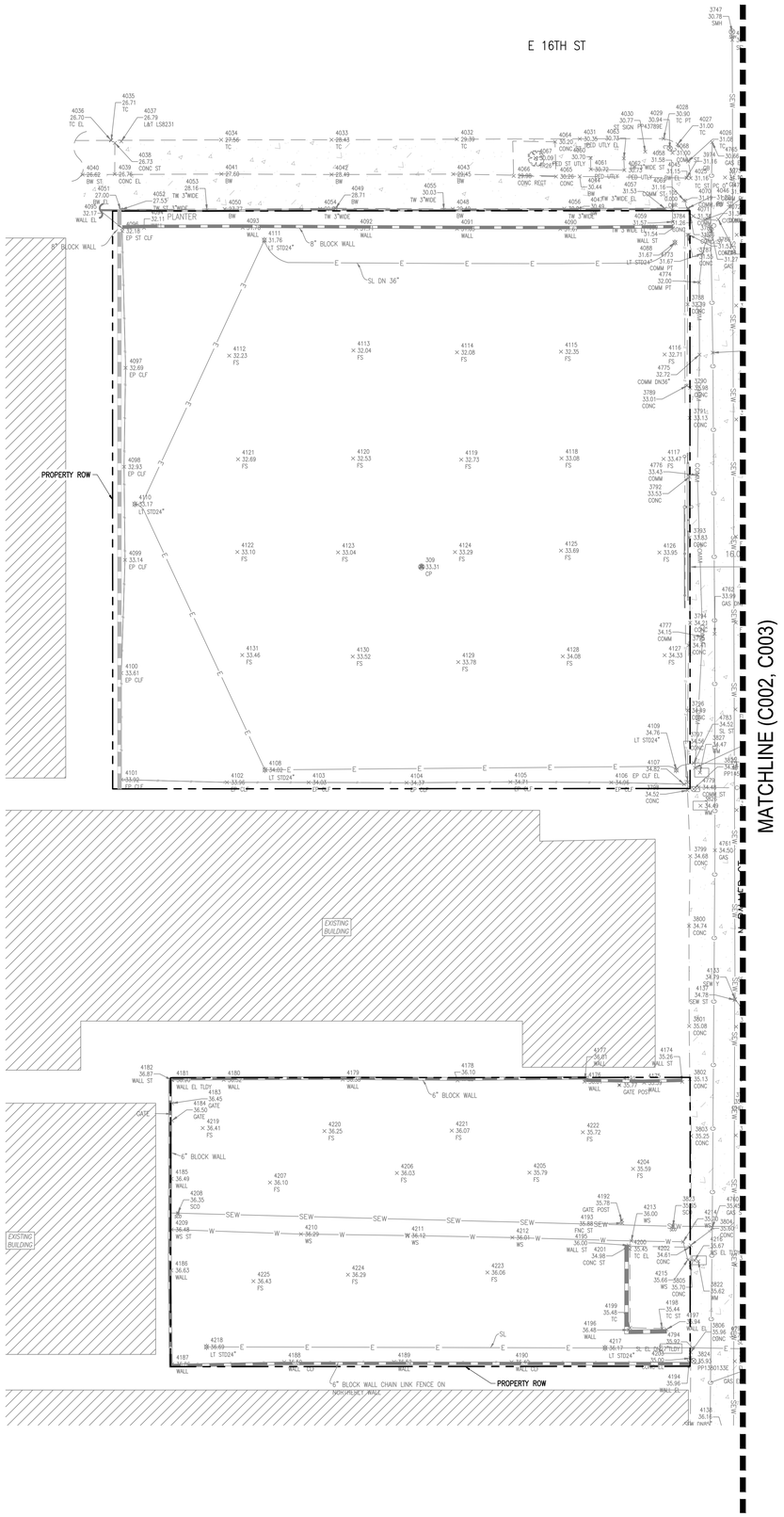
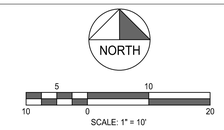
SURVEY (FOR INFORMATION ONLY) 2 OF 3

**C003**

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LEGEND

PROPERTY ROW LINE

MATCHLINE

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

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DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
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SCALE: As indicated
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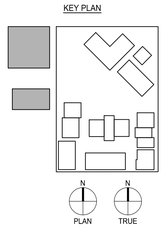
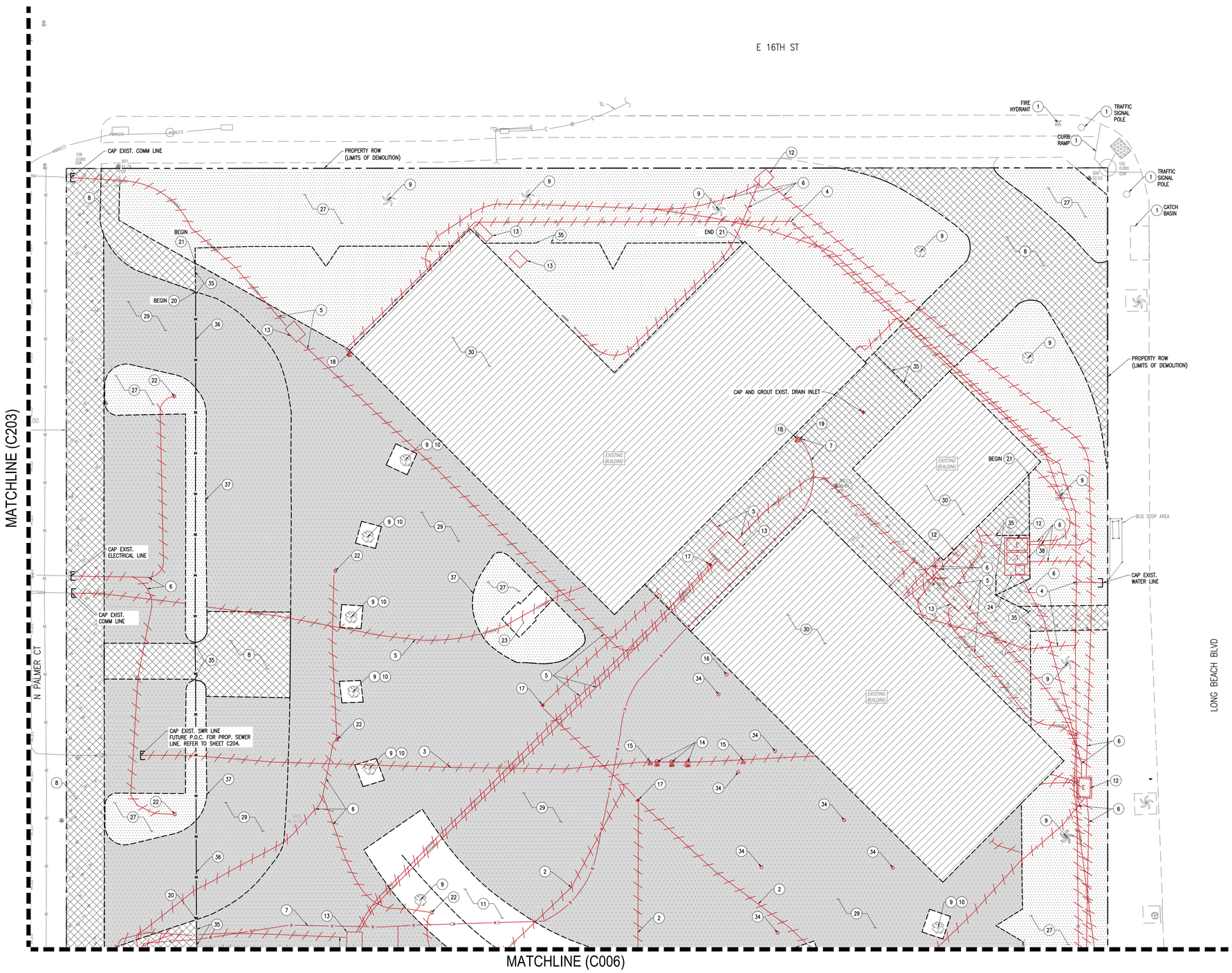
DATE: 11/10/25

KEY PLAN




SURVEY (FOR INFORMATION ONLY) 3 OF 3

**C004**




NORTH

SCALE: 1" = 10'

## NOTES TO SHEET

1. CONTRACTOR SHALL NOT ENCROACH INTO PUBLIC RIGHT-OF-WAY DURING CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL PROVIDE DUST CONTROL PREVENTATIVE MEASURES AS SPECIFIED IN CONTRACT DOCUMENTS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILED INFORMATION ON EQUIPMENT AND MATERIALS TO SALVAGE PRIOR TO BUILDING DEMOLITION.

## LEGEND

- REMOVED EXISTING P.C.C. WALKWAY, BASE, AND SUB-BASE AS NEEDED TO CONSTRUCT IMPROVEMENTS.
- REMOVED EXISTING GRASS, TOPSOIL, AND SUB-BASE AS NEEDED TO CONSTRUCT IMPROVEMENTS.
- REMOVED EXISTING AC WALKWAY (3" AC/4" AB) AS NEEDED TO CONSTRUCT IMPROVEMENTS.
- REMOVE EXISTING BUILDING. REFER TO ARCH. DEMO SHEETS FOR MORE DETAIL.
- UTILITY LINE REMOVAL
- E — EXISTING ELECTRICAL LINE
- CDPH — EXISTING COMMUNICATION LINE
- G — EXISTING GAS LINE
- W — EXISTING WATER LINE
- SEW — EXISTING SEWER LINE
- SD — EXISTING STORM LINE
- PROPERTY ROW LINE
- MATCHLINE
- UTILITY CAP

## DEMOLITION KEY NOTES

1. PROTECT IN PLACE
2. REMOVE EXISTING STORM DRAIN LINE
3. REMOVE EXISTING SEWER LINE
4. REMOVE EXISTING WATER LINE
5. REMOVE EXISTING COMMUNICATIONS CONDUIT
6. REMOVE EXISTING ELECTRICAL POWER CONDUIT
7. REMOVE EXISTING GAS LINE
8. REMOVE AND DISPOSE OF EXISTING P.C.C. WALKWAY, BASE, AND SUB-BASE
9. REMOVE EXISTING TREE
10. REMOVE EXISTING PLANTER BOX AND ASSOCIATED P.C.C. FOUNDATION
11. REMOVE EXISTING ELEVATED P.C.C. SEAT AREA
12. REMOVE EXISTING ELECTRICAL VAULT
13. REMOVE EXISTING COMMUNICATIONS VAULT
14. REMOVE EXISTING SEWER MANHOLE
15. REMOVE EXISTING SEWER CLEANOUT
16. REMOVE EXISTING DRINKING FOUNTAIN
17. REMOVE EXISTING STORM DRAIN DRAINAGE INLET
18. REMOVE EXISTING WATER VALVE
19. REMOVE EXISTING GAS VALVE
20. REMOVE EXISTING CHAIN LINK FENCE
21. REMOVE EXISTING WOOD FENCE
22. REMOVE EXISTING LIGHT POLE
23. REMOVE EXISTING FLAG POLE AND ASSOCIATED HARDWARE
24. REMOVE EXISTING ELECTRICAL SERVICE PEDESTAL
27. REMOVE AND DISPOSE OF EXISTING GRASS, TOPSOIL, AND SUB-BASE
29. REMOVE AND DISPOSE OF EXISTING AC WALKWAY (3" AC/4" AB)
30. REMOVE EXISTING BUILDING. (REFER TO DA SERIES SHEETS FOR MORE INFORMATION.)
34. REMOVE EXISTING SHADE STRUCTURE COLUMN
35. REMOVE EXISTING CHAIN LINK FENCE GATE, POST, AND ASSOCIATED HARDWARE
36. REMOVE EXISTING CHAIN LINK FENCE SLIDING GATE, POST, AND ASSOCIATED HARDWARE
37. REMOVE EXISTING P.C.C. CURB
38. REMOVE EXISTING TELEPHONE BOX

KEY PLAN

N PLAN — N TRUE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

REGISTERED PROFESSIONAL ENGINEER
MICHAEL CATTABIANI
C 95778
Exp. 03-31-2028
CIVIL
STATE OF CALIFORNIA

**PBK**
**ARCHITECT**
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CONTACT: MICHAEL CATTABIANI

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENT**

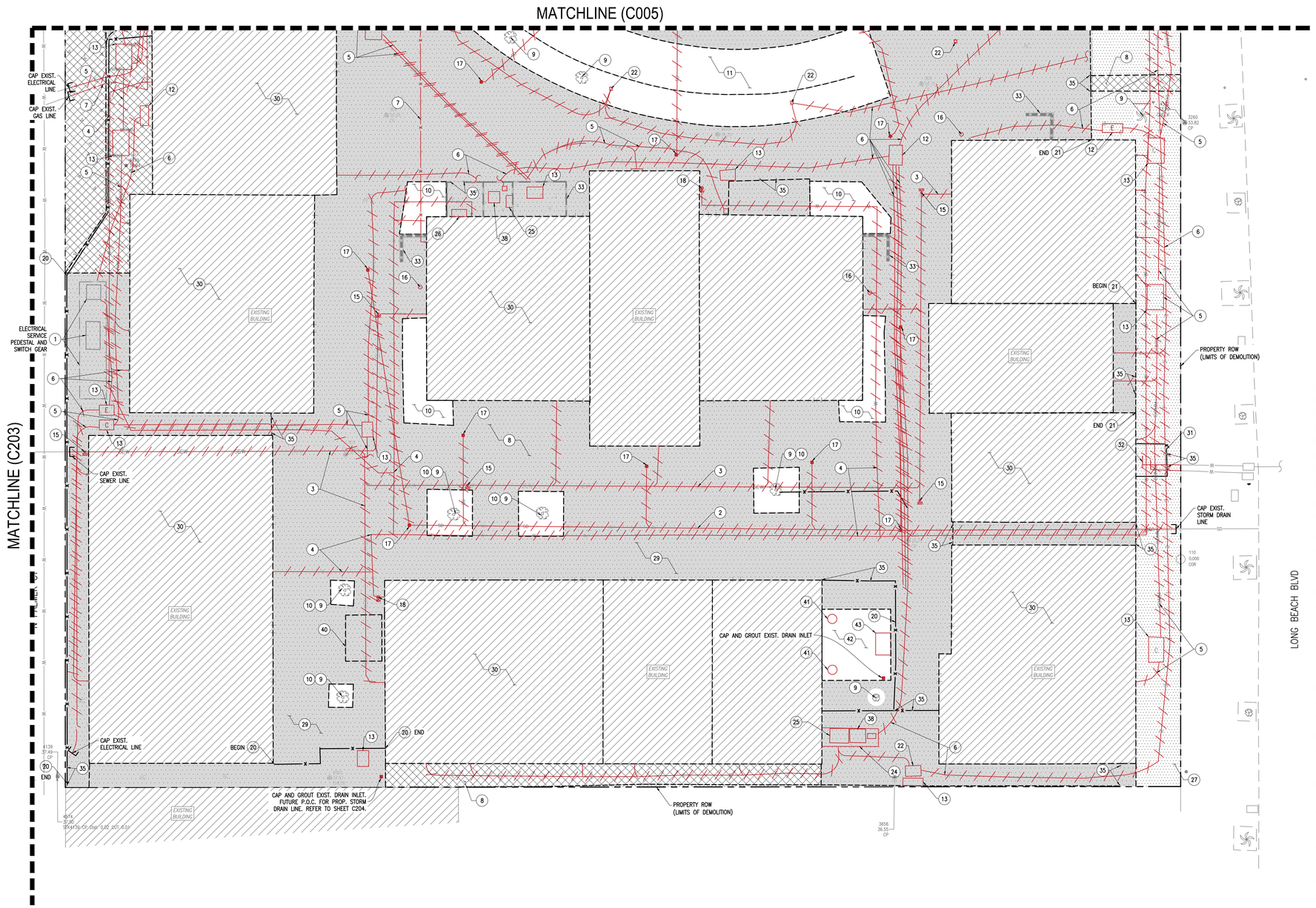
DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
|---|---|---|

JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
DATE: 11/10/25

DEMOLITION PLAN
(1 OF 2)

**C005**




NORTH

SCALE: 1" = 10'

## NOTES TO SHEET

1. CONTRACTOR SHALL NOT ENCROACH INTO PUBLIC RIGHT-OF-WAY DURING CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL PROVIDE DUST CONTROL PREVENTATIVE MEASURES AS SPECIFIED IN CONTRACT DOCUMENTS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILED INFORMATION ON EQUIPMENT AND MATERIALS TO SALVAGE PRIOR TO BUILDING DEMOLITION.

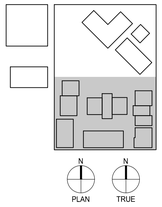
## LEGEND

- REMOVED EXISTING P.C.C. WALKWAY, BASE, AND SUB-BASE AS NEEDED TO CONSTRUCT IMPROVEMENTS.
- REMOVED EXISTING GRASS, TOPSOIL, AND SUB-BASE AS NEEDED TO CONSTRUCT IMPROVEMENTS.
- REMOVED EXISTING AC WALKWAY (3" AC/4" AB) AS NEEDED TO CONSTRUCT IMPROVEMENTS.
- REMOVE EXISTING BUILDING. REFER TO ARCH. DEMO SHEETS FOR MORE DETAIL.
- UTILITY LINE REMOVAL
- E — EXISTING ELECTRICAL LINE
- CDM — EXISTING COMMUNICATION LINE
- G — EXISTING GAS LINE
- W — EXISTING WATER LINE
- SEW — EXISTING SEWER LINE
- SD — EXISTING STORM LINE
- PROPERTY ROW LINE
- MATCHLINE
- UTILITY CAP

## DEMOLITION KEY NOTES

1. PROTECT IN PLACE
2. REMOVE EXISTING STORM DRAIN LINE
3. REMOVE EXISTING SEWER LINE
4. REMOVE EXISTING WATER LINE
5. REMOVE EXISTING COMMUNICATIONS CONDUIT
6. REMOVE EXISTING ELECTRICAL POWER CONDUIT
7. REMOVE EXISTING GAS LINE
8. REMOVE AND DISPOSE OF EXISTING P.C.C. WALKWAY, BASE, AND SUB-BASE
9. REMOVE EXISTING TREE
10. REMOVE EXISTING PLANTER BOX AND ASSOCIATED P.C.C. FOUNDATION
11. REMOVE EXISTING ELEVATED P.C.C. SEAT AREA
12. REMOVE EXISTING ELECTRICAL VAULT
13. REMOVE EXISTING COMMUNICATIONS VAULT
15. REMOVE EXISTING SEWER CLEANOUT
16. REMOVE EXISTING DRINKING FOUNTAIN
17. REMOVE EXISTING STORM DRAIN DRAINAGE INLET
18. REMOVE EXISTING WATER VALVE
20. REMOVE EXISTING CHAIN LINK FENCE
21. REMOVE EXISTING WOOD FENCE
22. REMOVE EXISTING LIGHT POLE
24. REMOVE EXISTING ELECTRICAL SERVICE PEDESTAL
25. REMOVE EXISTING ELECTRICAL SWITCH GEAR
26. REMOVE EXISTING WATER CABINET
27. REMOVE AND DISPOSE OF EXISTING GRASS, TOPSOIL, AND SUB-BASE
29. REMOVE AND DISPOSE OF EXISTING AC WALKWAY (3" AC/4" AB)
30. REMOVE EXISTING BUILDING. (REFER TO DA SERIES SHEETS FOR MORE INFORMATION.)
31. REMOVE EQUIPMENT ENCLOSURE FENCE
32. REMOVE AND SALVAGE EXISTING BACKFLOW PREVENTER. TO BE RE-INSTALLED AT NEW LOCATION. (REFER TO SHEET C204 FOR MORE INFORMATION.)
33. REMOVE EXISTING CMU WALL AND FOOTING
35. REMOVE EXISTING CHAIN LINK FENCE GATE, POST, AND ASSOCIATED HARDWARE
38. REMOVE EXISTING TELEPHONE BOX
40. SALVAGE EXISTING EMERGENCY CONTAINER AND INSTALL AT NEW LOCATION
41. REMOVE STEEL POLE STRUCTURE AND ASSOCIATED FOOTING
42. REMOVE EXISTING CRUSHED AGGREGATE
43. REMOVE EXISTING ELECTRICAL BOX

KEY PLAN

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1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENT**

DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
|---|---|---|

JOB No.: 240469
SCALE: As indicated
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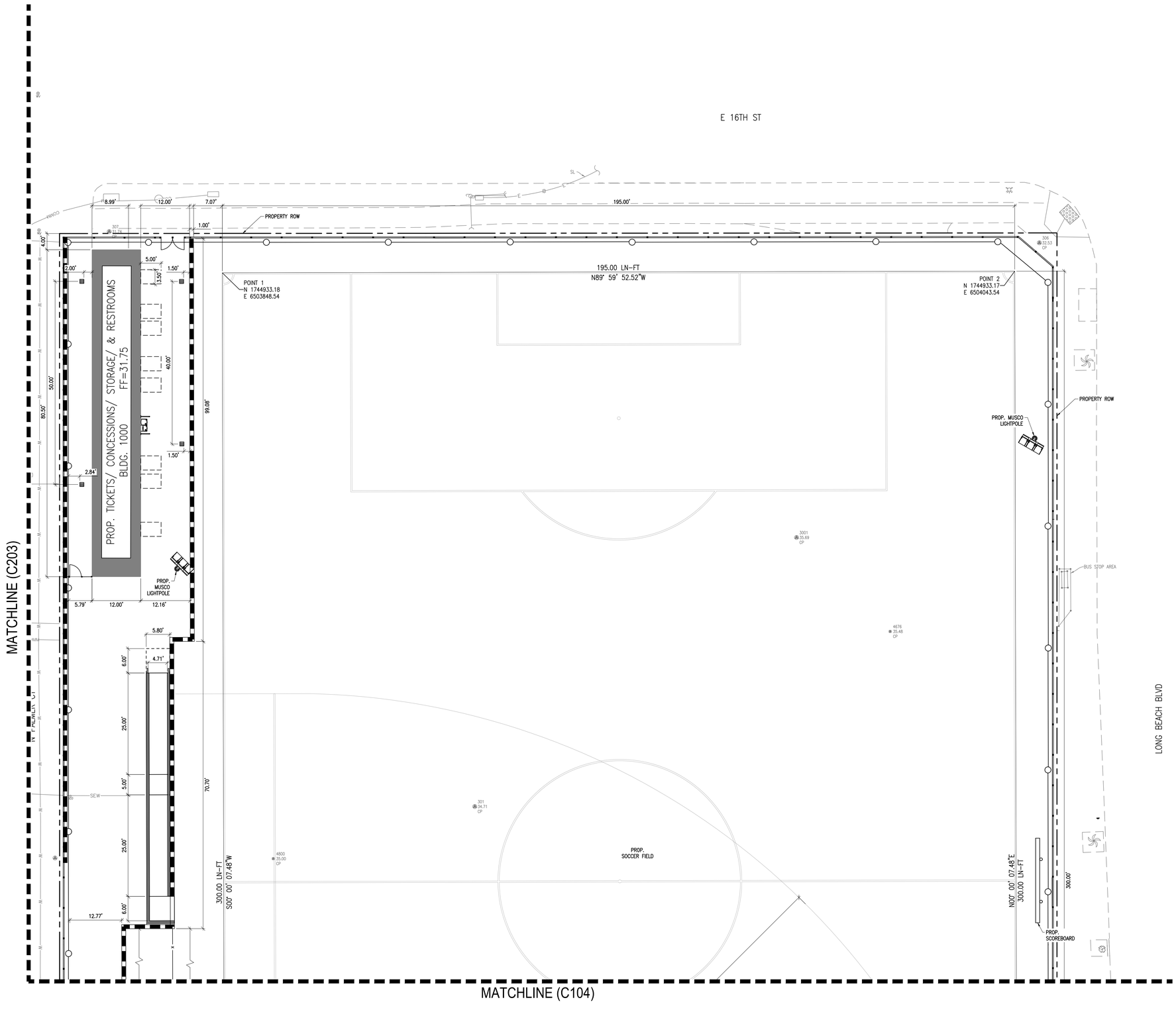
DATE: 11/10/25

DEMOLITION PLAN
(2 OF 2)

**C006**




NORTH

SCALE: 1" = 10'

## NOTES TO SHEET

1. CONTRACTOR SHALL VERIFY NORTHING AND EASTING POINTS, DIMENSIONS AND BEARINGS CAN ALL BE LOCATED AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL REFERENCE SIGNED TOPOGRAPHIC SURVEY FOR EXISTING ELEVATIONS AND ENSURE ALL PROPOSED FEATURES CAN BE CONSTRUCTED AS INTENDED PRIOR TO BEGINNING CONSTRUCTION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILED INFORMATION ON PROPOSED SITE FEATURES.

## LEGEND

- PROPOSED BUILDING
- PROPERTY ROW LINE
- PROPOSED CHAIN LINK FENCE
- PROPOSED METAL PANEL FENCE
- 195.00 LN-FT N89 52' 23.02" W — DISTANCE AND BEARING
- POINT 2 N 1744937.92 E 6504048.24 — NORTHING, EASTING POINT
- PROPOSED MUSCOE LIGHTPOLE
- PROPOSED SCOREBOARD
- 11.13' — DIIMENSION
- MATCHLINE
- VARYING HEIGHT RETAINING WALL

KEY PLAN

N PLAN — N TRUE

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JOB No.: 240469
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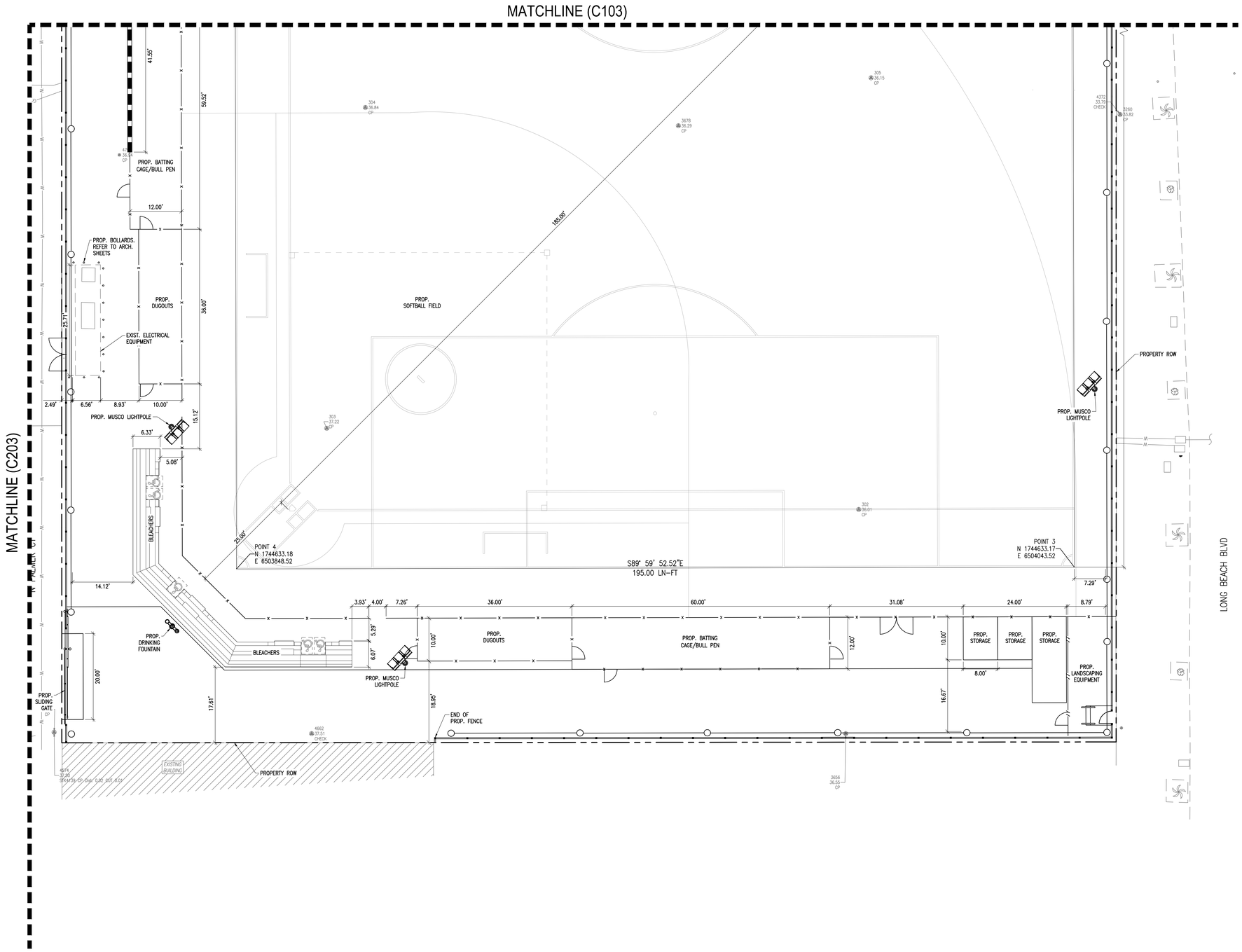
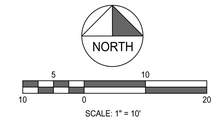
DATE: 11/10/25

DIMENSIONAL CONTROL PLAN (1 OF 2)

**C103**



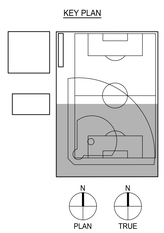




## NOTES TO SHEET

1. CONTRACTOR SHALL VERIFY NORTHING AND EASTING POINTS, DIMENSIONS AND BEARINGS CAN ALL BE LOCATED AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL REFERENCE SIGNED TOPOGRAPHIC SURVEY FOR EXISTING ELEVATIONS AND ENSURE ALL PROPOSED FEATURES CAN BE CONSTRUCTED AS INTENDED PRIOR TO BEGINNING CONSTRUCTION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILED INFORMATION ON PROPOSED SITE FEATURES.

## LEGEND

- PROPOSED BUILDING
- EXISTING BUILDING
- PROPERTY ROW LINE
- PROPOSED CHAIN LINK FENCE
- PROPOSED METAL PANEL FENCE
- 195.00 LN-FT N89° 52' 23.02" W — DISTANCE AND BEARING
- POINT 2 N 1744937.92 E 6504048.24 — NORTHING, EASTING POINT
- PROPOSED MUSCOE LIGHTPOLE
- 11.13' — DIIMENSION
- MATCHLINE
- VARYING HEIGHT RETAINING WALL

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENT**

DSA #03-125644 File 19-H15

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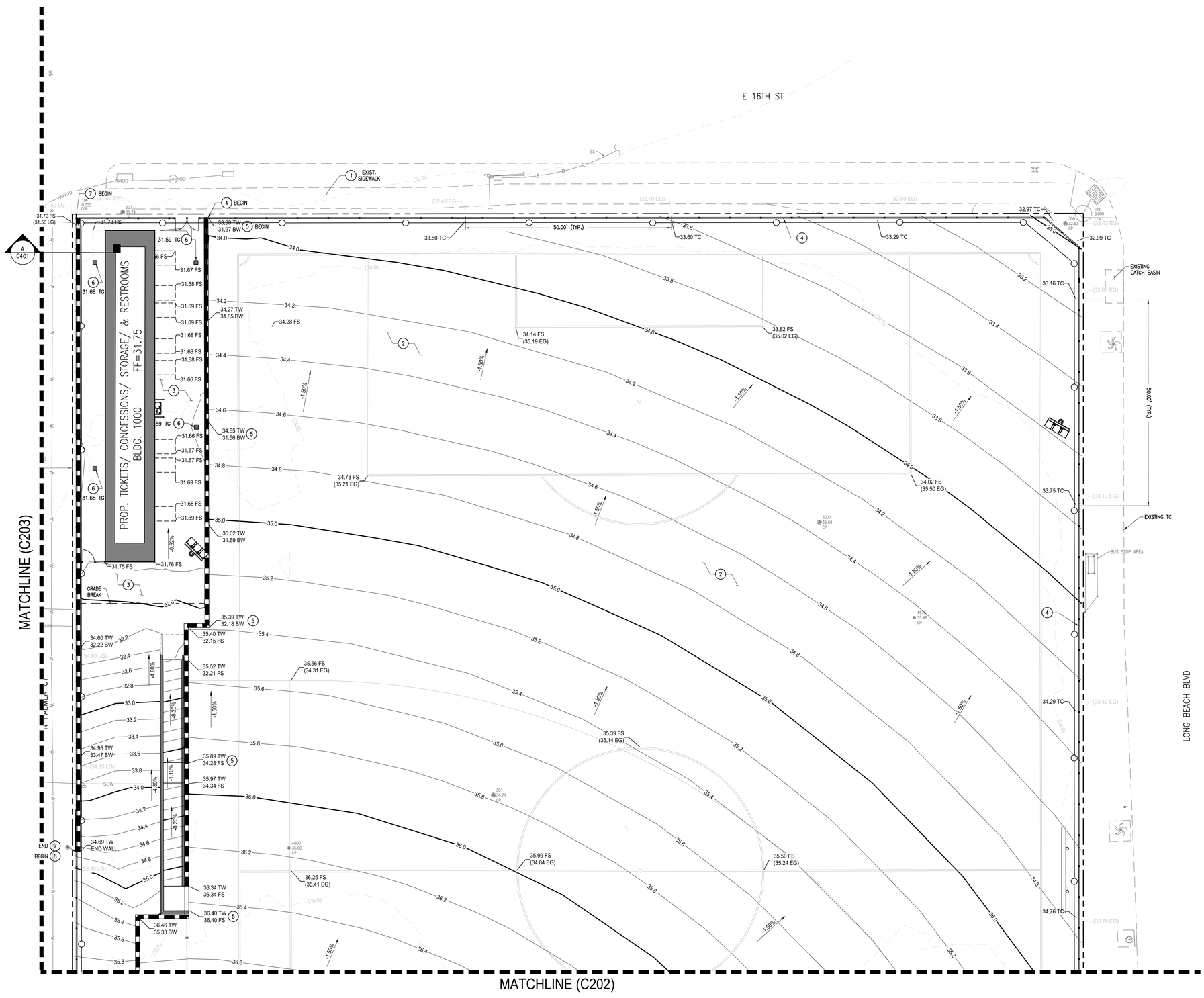
|---|---|---|
| | | |

JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
DATE: 11/10/25

DIMENSIONAL CONTROL PLAN (2 OF 2)

**C104**




NORTH

SCALE: 1" = 10'

## NOTES TO SHEET

1. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR PAVEMENT FINISHES AND FIELD FINISHES.
2. CONTRACTOR SHALL VERIFY PROPOSED GRADES CAN MEET EXISTING GRADES PRIOR TO BEGINNING EARTHWORK AND GRADING ACTIVITIES.

## LEGEND

| | |
|---|---|
| FS | FINISHED SURFACE ELEVATION |
| FF | FINISHED FLOOR ELEVATION |
| EG | EXISTING GRADE |
| PROP | PROPOSED |
| TC | TOP OF CURB |
| FL | FLOW LINE |
| TP | TOP OF PAVEMENT |
| TW | TOP OF WALL |
| BW | BOTTOM OF WALL |

PROPOSED BUILDING

-1.50% PROPOSED GRADING SLOPE

33.4 PROPOSED GRADING CONTOUR

(33.4) EXISTING GRADING CONTOUR

E EXISTING ELECTRICAL LINE

COMM EXISTING COMMUNICATION LINE

G EXISTING GAS LINE

W EXISTING WATER LINE

SEW EXISTING SEWER LINE

SD EXISTING STORM LINE

PROPERTY ROW LINE

METAL PANEL FENCE

VARYING HEIGHT RETAINING WALL

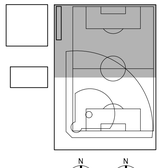
MATCHLINE

C / C101 SECTION CUT / SHEET NUMBER

## SITE IMPROVEMENT KEY NOTES

1. PROTECT IN PLACE
2. CONSTRUCT FIELD SURFACE PER DETAILS SHOWN ON LANDSCAPE SHEETS
3. CONSTRUCT 4" P.C.C. SITEWALK PER DETAIL 5 ON SHEET C401
4. CONSTRUCT REINFORCED RETAINING CURB WITH FENCE EMBEDMENT PER DETAIL 7 ON SHEET C401
5. CONSTRUCT VARYING HEIGHT RETAINING WALL PER DETAIL 13 ON SHEET S4.1
6. INSTALL 12" X 12" SITE DRAIN PER DETAIL 10 ON SHEET C401
7. CONSTRUCT REINFORCED RETAINING WALL WITH FENCE EMBEDMENT PER DETAIL 13 ON SHEET C401
8. CONSTRUCT REINFORCED RETAINING CURB WITH FENCE EMBEDMENT PER DETAIL 6 ON SHEET C401.

KEY PLAN



N PLAN N TRUE

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long beach unified school district

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENT**

DSA #03-125644 File 19-H15

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| | | |

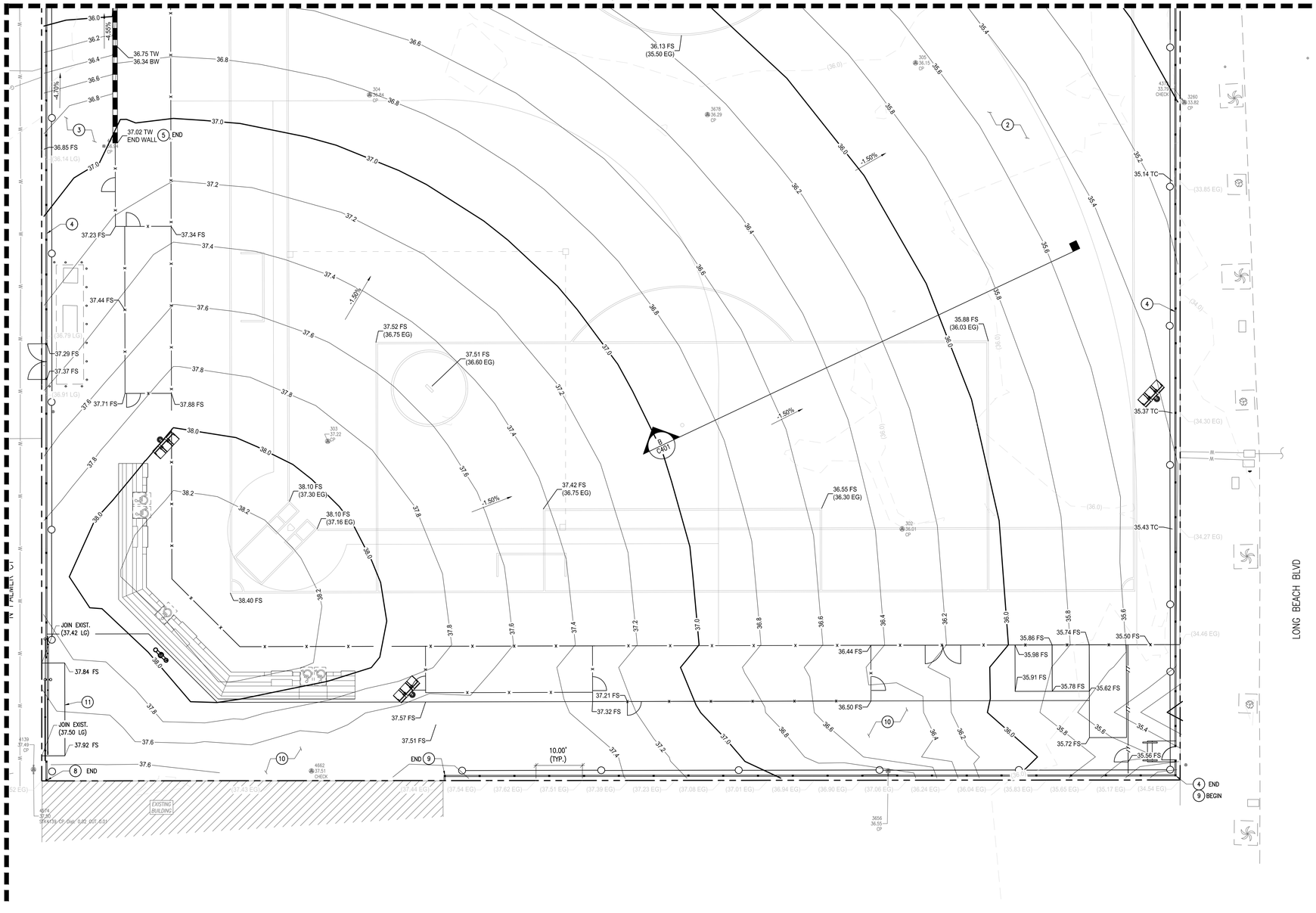
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | MC |
| DATE: | 11/10/25 |

GRADING AND PAVING PLAN (1 OF 3)

**C201**

MATCHLINE (C201)

MATCHLINE (C203)




NORTH

SCALE: 1" = 10'

## NOTES TO SHEET

1. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR PAVEMENT FINISHES AND FIELD FINISHES.
2. CONTRACTOR SHALL VERIFY PROPOSED GRADES CAN MEET EXISTING GRADES PRIOR TO BEGINNING EARTHWORK AND GRADING ACTIVITIES.

## LEGEND

| | |
|---|---|
| FS | FINISHED SURFACE ELEVATION |
| FF | FINISHED FLOOR ELEVATION |
| EG | EXISTING GRADE |
| PROP | PROPOSED |
| TC | TOP OF CURB |
| FL | FLOW LINE |
| TP | TOP OF PAVEMENT |

PROPOSED BUILDING

EXISTING BUILDING

-1.50% PROPOSED GRADING SLOPE

33.4 PROPOSED GRADING CONTOUR

(33.4) EXISTING GRADING CONTOUR

E EXISTING ELECTRICAL LINE

COMM EXISTING COMMUNICATION LINE

G EXISTING GAS LINE

W EXISTING WATER LINE

SEW EXISTING SEWER LINE

SD EXISTING STORM LINE

PROPERTY ROW LINE

METAL PANEL FENCE

VARYING HEIGHT RETAINING WALL

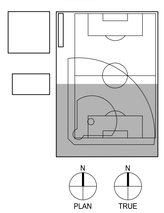
MATCHLINE

C / C101 SECTION CUT / SHEET NUMBER

## SITE IMPROVEMENT KEY NOTES

1. PROTECT IN PLACE
2. CONSTRUCT FIELD SURFACE PER DETAILS SHOWN ON LANDSCAPE SHEETS
3. CONSTRUCT 4" P.C.C. SITEWALK PER DETAIL 5 ON SHEET C401
4. CONSTRUCT REINFORCED RETAINING CURB WITH METAL PANEL FENCE EMBEDMENT PER DETAIL 7 ON SHEET C401
5. CONSTRUCT VARYING HEIGHT RETAINING WALL PER DETAIL 13 ON SHEET S4.1
9. CONSTRUCT METAL PANEL FENCE EMBEDDED INTO 4" P.C.C. SITEWALK
10. CONSTRUCT 6" P.C.C. VEHICULAR PAVEMENT SECTION PER DETAIL 12 ON SHEET C401
11. CONSTRUCT ROLLED CURB PER DETAIL 11 ON SHEET C401

KEY PLAN

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

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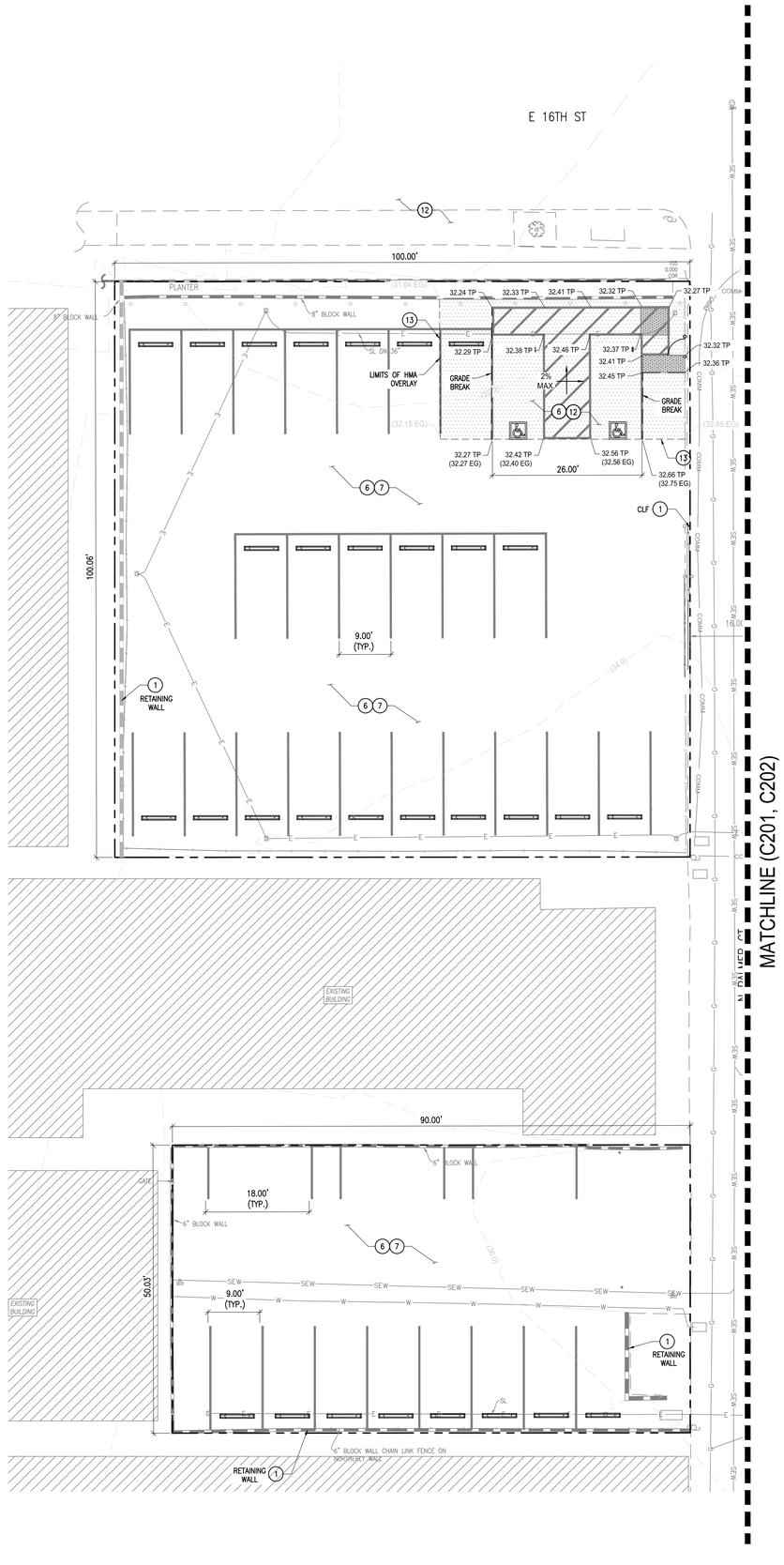
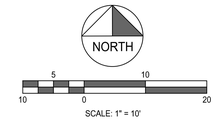
|---|---|---|
| | | |

JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
DATE: 11/10/25

GRADING AND PAVING PLAN (2 OF 3)

**C202**




## NOTES TO SHEET

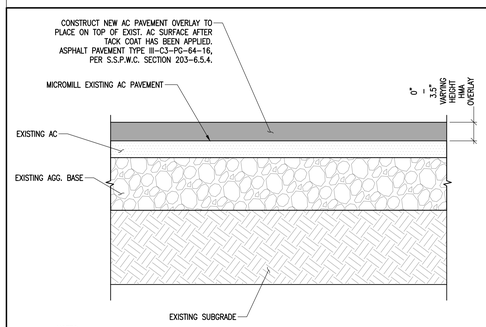
1. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR PAVEMENT FINISHES AND FIELD FINISHES.
2. CONTRACTOR SHALL VERIFY PROPOSED GRADES CAN MEET EXISTING GRADES PRIOR TO BEGINNING EARTHWORK AND GRADING ACTIVITIES.

## LEGEND

| | |
|---|---|
| FS | FINISHED SURFACE ELEVATION |
| FF | FINISHED FLOOR ELEVATION |
| EG | EXISTING GRADE |
| PROP | PROPOSED |
| TC | TOP OF CURB |
| FL | FLOW LINE |
| TP | TOP OF PAVEMENT |
| (33.4) | EXISTING GRADING CONTOUR |
| E | EXISTING ELECTRICAL LINE |
| COMM | EXISTING COMMUNICATION LINE |
| G | EXISTING GAS LINE |
| W | EXISTING WATER LINE |
| SEW | EXISTING SEWER LINE |
| SD | EXISTING STORM LINE |
| | PROPERTY ROW LINE |
| | MATCHLINE |
| | PARKING BLOCK |
| | MICROMILL AND HMA OVERLAY |

## SITE IMPROVEMENT KEYNOTES

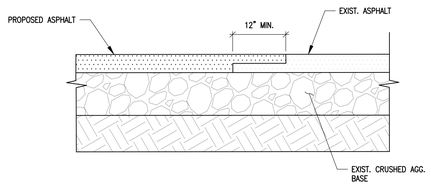
1. PROTECT IN PLACE
6. MICRO-MILL EXISTING AC PAVEMENT
7. CONSTRUCT SEAL COAT (1/4" MIN.) ONTO EXISTING AC PAVEMENT
12. CONSTRUCT VARYING THICKNESS HMA OVERLAY PER DETAIL 15 ON THIS SHEET
13. CONSTRUCT NEW ASPHALT TO EXISTING ASPHALT JOINT PER DETAIL 16 ON THIS SHEET




NOTES:

1. CONTRACTOR SHALL MICRO MILL (COLD MILL) EXISTING EXISTING AC SURFACE TO REMOVE DEBRIS AND OTHER LOOSE ROCK MATERIAL PRIOR TO PLACING NEW ASPHALT CONCRETE.
2. CONTRACTOR SHALL PLACE TACK COAT ON ALL EXISTING ASPHALT CONCRETE SURFACE TO BE OVERLAID WITH HOT MIX ASPHALT AS DESCRIBED IN S.S.P.W.C. SECTION 302-5.8.
3. CONTRACTOR SHALL SUBMIT JOB-MIX FORMULA (JMF) FOR ASPHALT CONCRETE TO THE ENGINEER, PRIOR TO CONSTRUCTING PAVEMENT IMPROVEMENTS.
4. ASPHALT CONCRETE PAVEMENT CONSTRUCTION SHALL CONFORM TO S.S.P.W.C. SECTION 302-5.

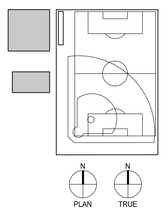
15 NEW HOT-MIX ASPHALT OVERLAY ON EXIST AC PAVEMENT




NOTES:

1. FINISH COURSE MUST COMPLY WITH C3 PG 64-10 ASPHALT.
2. NEW ASPHALT OVERLAY ONTO EXISTING ASPHALT SHALL BE 1" MIN. THICKNESS.
3. SAWCUTTING IS REQUIRED AROUND THE PERIMETER OF PROPOSED IMPROVEMENTS TO PROVIDE CLEAN, VERTICAL SIDES.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), LATEST APPROVED EDITION.

16 NEW ASPHALT TO EXISTING ASPHALT JOINT




IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

long beach unified school district

**Long Beach Unified School District**

2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

REGISTERED PROFESSIONAL ENGINEER
MICHAEL CATTABIANI
C 95778
Exp. 03-31-2028
CIVIL
STATE OF CALIFORNIA

**PBK**

**ARCHITECT**
8163 ROCHESTER AVE.
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ANAHEIM, CA 92806
Tel: 949-648-5000
CONTACT: MICHAEL CATTABIANI

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENT**

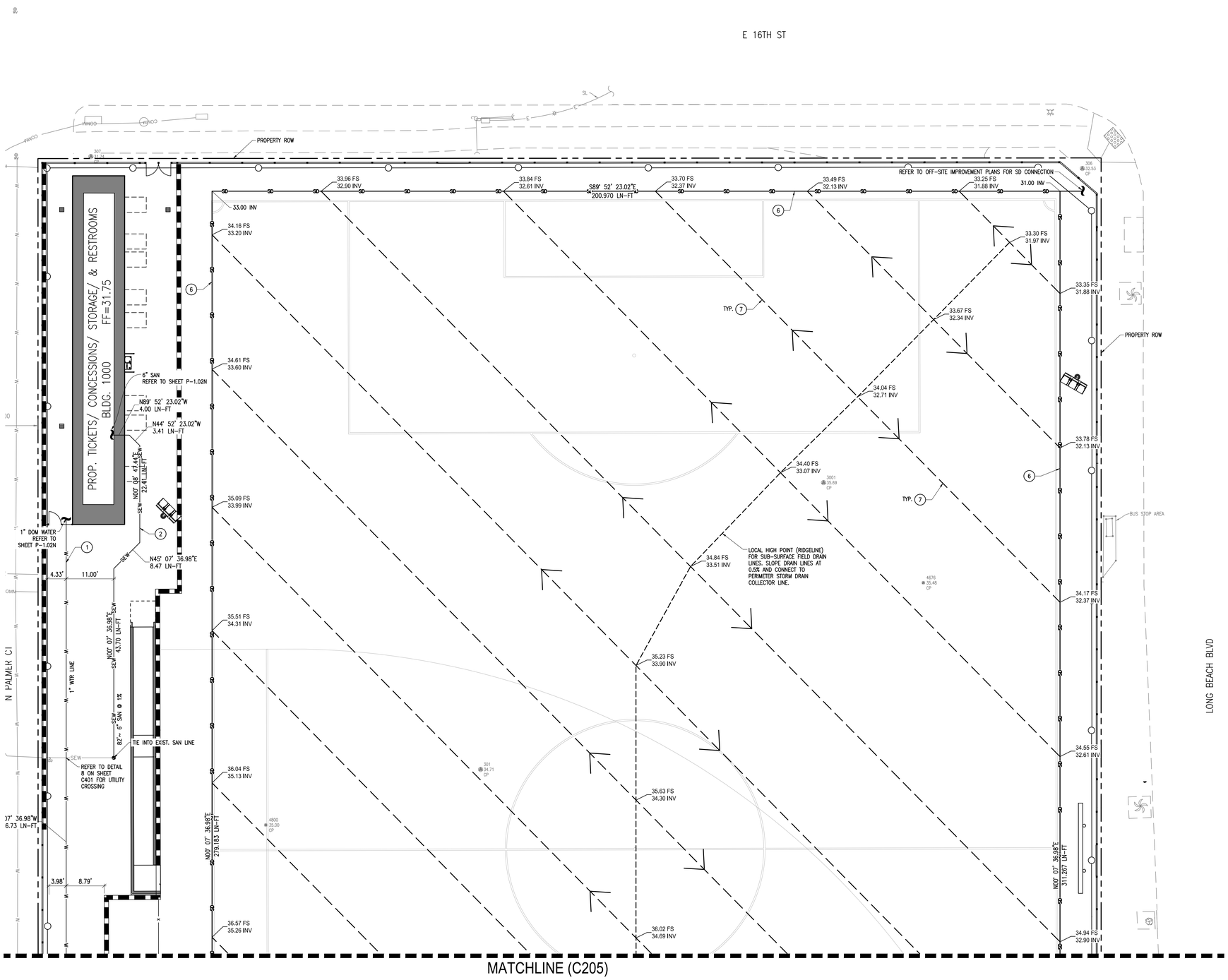
DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
|---|---|---|

| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | MC |
| DATE: | 11/10/25 |

GRADING AND PAVING PLAN (3 OF 3)

**C203**




NORTH

SCALE: 1" = 10'

## LEGEND

| | |
|---|---|
| TC | TOP OF CURB |
| FL | FLOW LINE |
| TP | TOP OF PAVEMENT |
| TSub | TOP OF SUBGRADE |
| TR | TOP OF RIM |
| TG | TOP OF GRATE |
| TN | TOP OF NAILER |
| A - X | AREA INLET |
| ID - X | INLINE DRAIN |
| CB - X | CATCH BASIN |
| C - X | CURB INLET |

PROPOSED BUILDING

EXISTING ELECTRICAL LINE

EXISTING COMMUNICATION LINE

EXISTING GAS LINE

EXISTING WATER LINE

EXISTING SEWER LINE

EXISTING STORM LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

PROPERTY ROW LINE

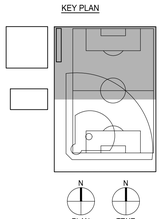
MATCHLINE

VARYING HEIGHT RETAINING WALL

## WATER AND SEWER IMPROVEMENT KEY NOTES

1. THE PROPOSED 1" POTABLE WATER LINE SHALL BE SEAMLESS COPPER WATER PIPE CONFORMING TO ASTM B88, TYPE L PER DETAIL 3 ON SHEET C401.
2. THE PROPOSED 6" SANITARY SEWER LATERAL SHALL BE PVC SEWER PIPE CONFORMING TO SDR 35 PER DETAIL 4 ON SHEET C401.
6. INSTALL 6" HDPE STORM DRAIN LINE (PERIMETER COLLECTOR PIPE)
7. INSTALL 4" PERFORATED COLLECTOR PIPE (REFER TO DETAIL 2 ON L2.00 FOR MORE INFORMATION)

KEY PLAN

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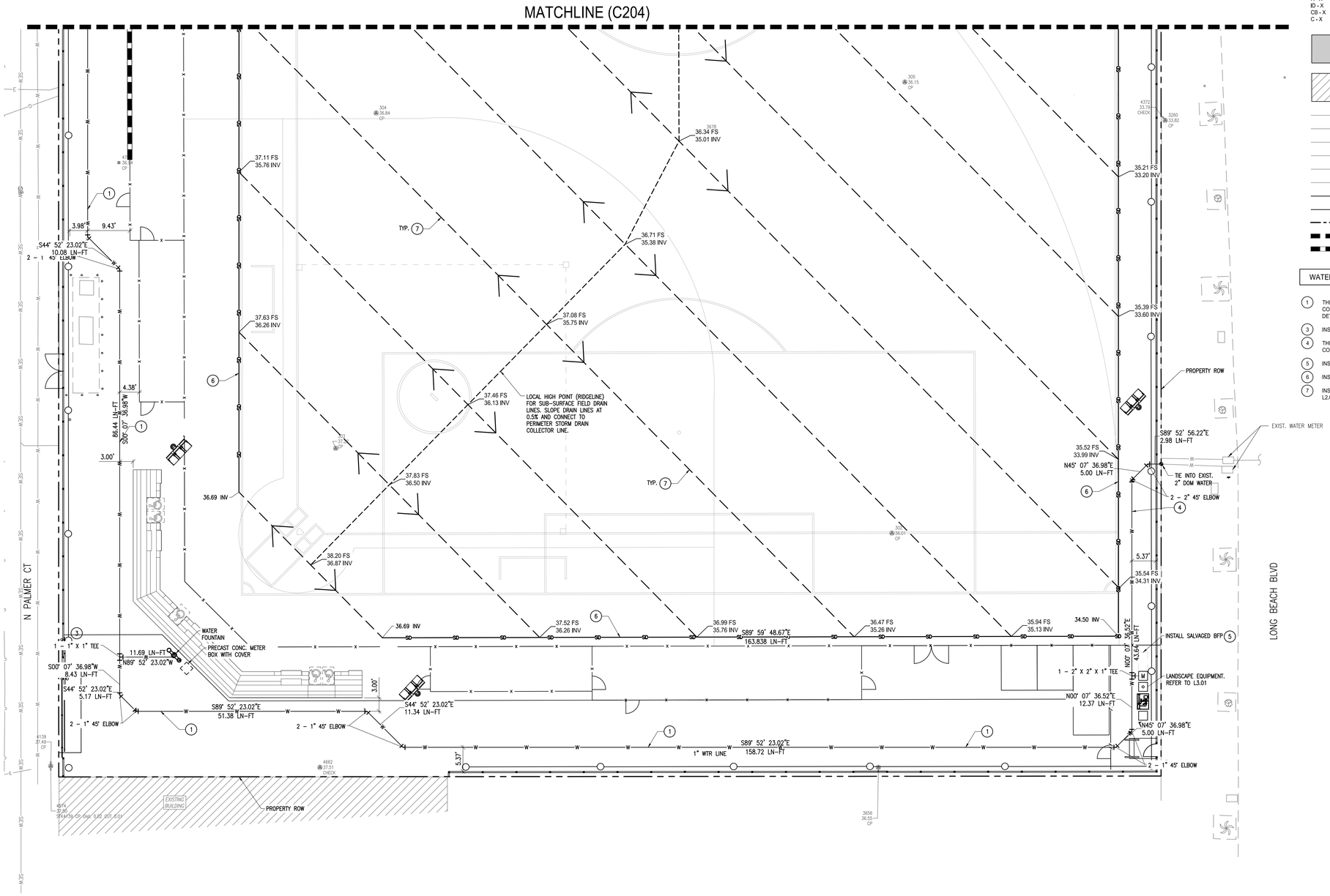
DATE: 11/10/25

WET UTILITY PLAN
(1 OF 2)

**C204**




NORTH

SCALE: 1" = 10'

## LEGEND

| | |
|---|---|
| TC | TOP OF CURB |
| FL | FLOW LINE |
| TP | TOP OF PAVEMENT |
| TSub | TOP OF SUBGRADE |
| TR | TOP OF RIM |
| TG | TOP OF GRATE |
| TN | TOP OF NAILER |
| A - X | AREA INLET |
| ID - X | INLINE DRAIN |
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PROPOSED BUILDING

EXISTING BUILDING

EXISTING ELECTRICAL LINE

EXISTING COMMUNICATION LINE

EXISTING GAS LINE

EXISTING WATER LINE

EXISTING SEWER LINE

EXISTING STORM LINE

PROPOSED WATER LINE

PROPOSED SEWER LINE

PROPERTY ROW LINE

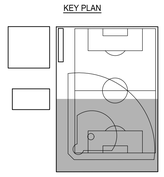
MATCHLINE

VARYING HEIGHT RETAINING WALL

## WATER AND SEWER IMPROVEMENT KEY NOTES

1. THE PROPOSED 1" POTABLE WATER LINE SHALL BE SEAMLESS COPPER WATER PIPE CONFORMING TO ASTM B88, TYPE L PER DETAIL 3 ON SHEET C401.
3. INSTALL 1" X 1" SOLDER COPPER FITTING.
4. THE PROPOSED 2" POTABLE WATER LINE SHALL BE SEAMLESS COPPER WATER PIPE CONFORMING TO ASTM B88, TYPE L.
5. INSTALL SALVAGED BACK FLOW PREVENTER.
6. INSTALL 6" HDPE STORM DRAIN LINE (PERIMETER COLLECTOR PIPE)
7. INSTALL 4" PERFORATED COLLECTOR PIPE (REFER TO DETAIL 2 ON L2.00 FOR MORE INFORMATION)

KEY PLAN



PLAN TRUE

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

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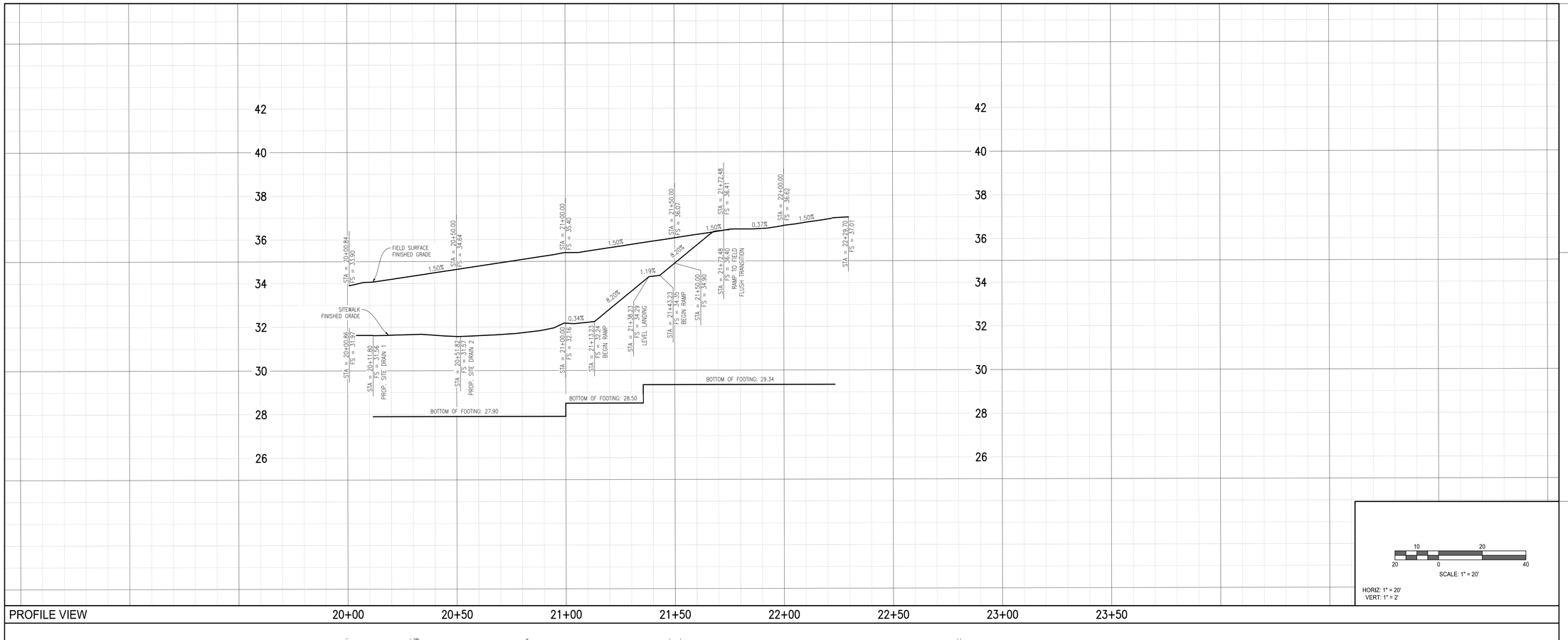
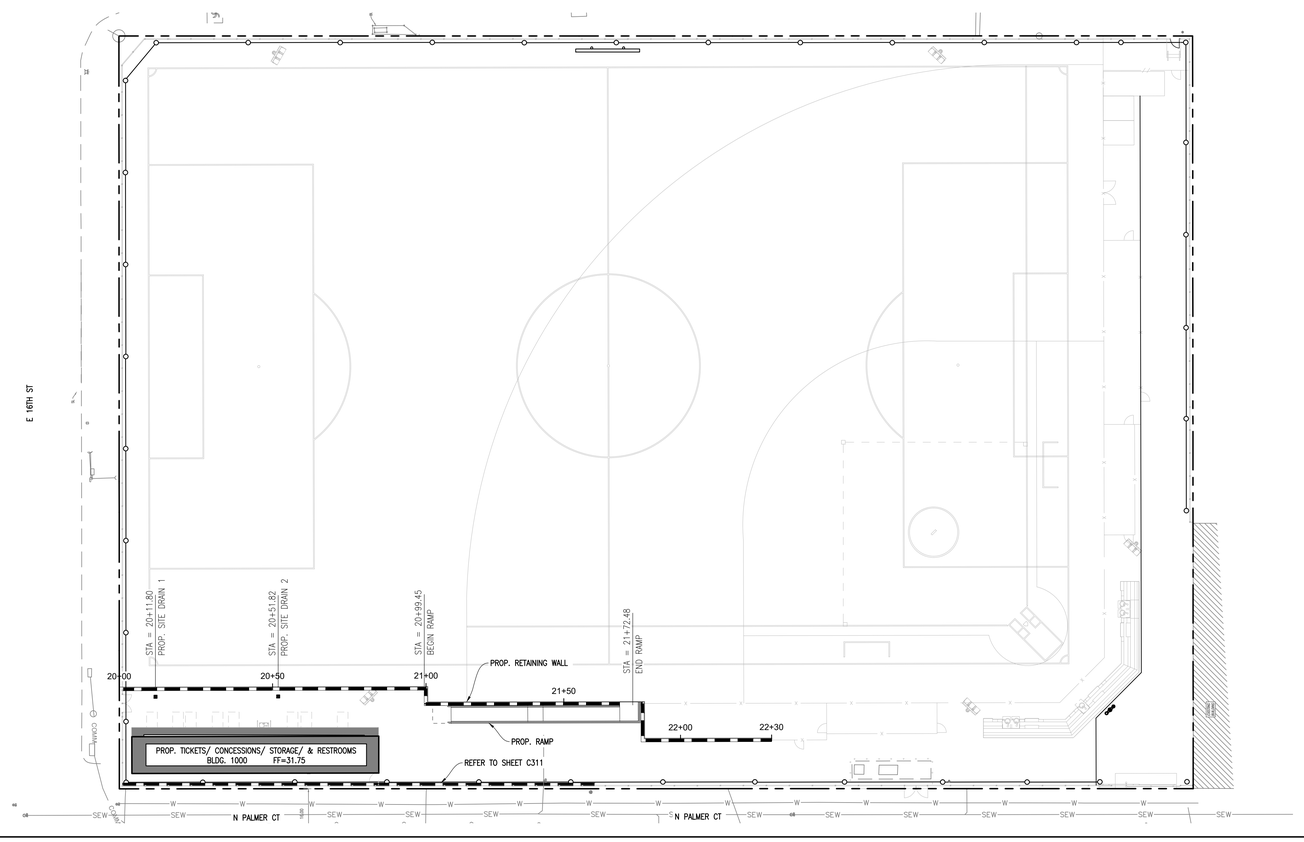
WET UTILITY PLAN
(2 OF 2)

**C205**




PROFILE VIEW




PLAN VIEW

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

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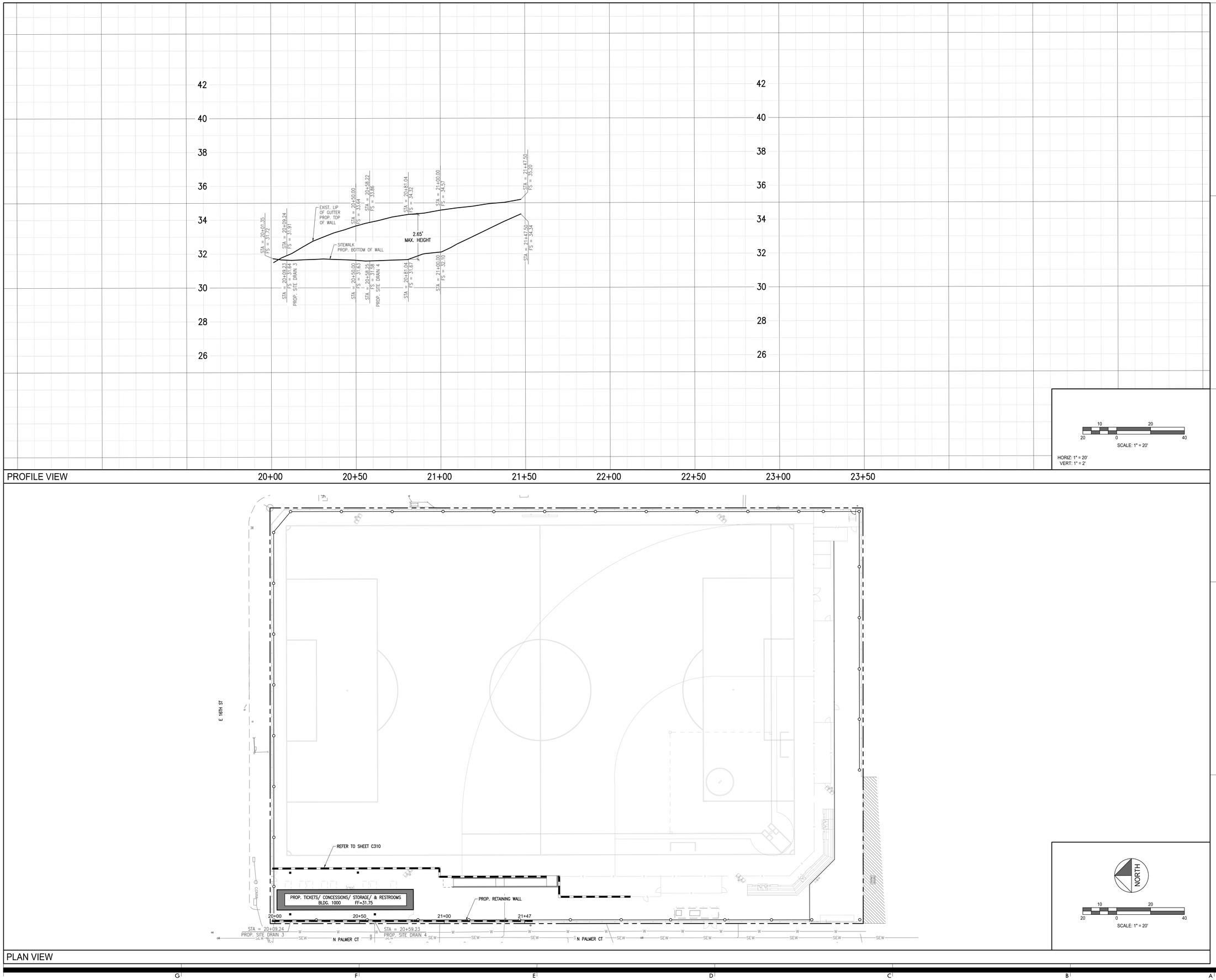
|---|---|---|

JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
DATE: 11/10/25

RETAINING WALL PLAN AND PROFILE (1 OF 2)

**C310**

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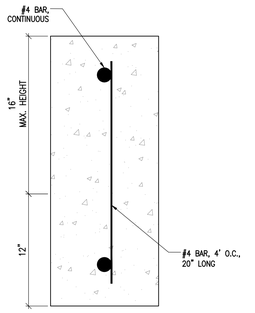
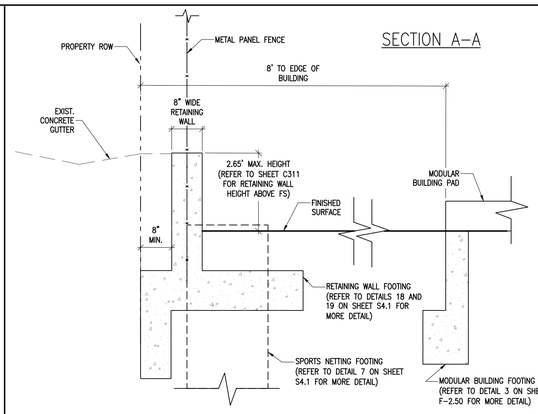
RETAINING WALL PLAN AND PROFILE (2 OF 2)

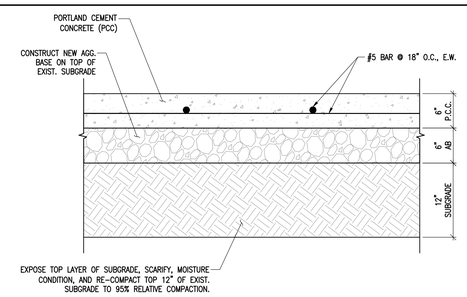
# C311




14 REINFORCED P.C.C. CURB

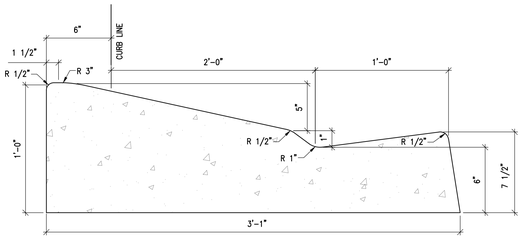



13 NORTHWEST PROPERTY LINE FENCE DETAIL



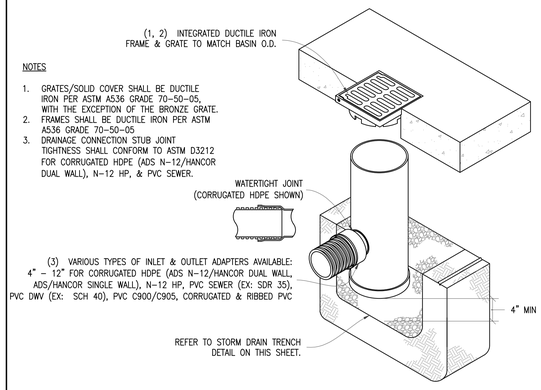

NOTES:
1. CONTRACTOR SHALL VERIFY EXISTING PAVEMENT SECTION TO CONFIRM PROPOSED IMPROVEMENTS ARE CONSTRUCTIBLE.
2. ALL SITEWALK MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO S.S.P.W.C. SECTION 303–5.
3. CROSS–SLOPE SHALL NOT EXCEED 2.0% (MAX.)
4. LONGITUDINAL SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5.0% (MAX.)
5. ALL FORMED EDGES SHALL BE ROUNDED TO A RADIUS OF $\frac{1}{2}$". EXCEPT FOR EDGES AT EXPANSION JOINTS SHALL BE ROUNDED TO A RADIUS OF $\frac{1}{8}$".
6. CRUSHED AGG. BASE MATERIAL SHALL CONFORM TO S.S.P.W.C. SECTION 200–2.2.
7. REINFORCING BAR SHALL CONFORM TO ASTM A615, GR. 60

12 VEHICULAR TRAFFIC PAVING SECTION



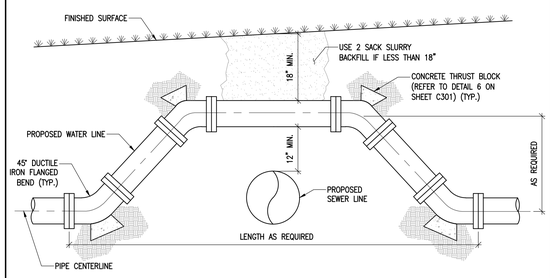

NOTES:
1. ALL CURB MATERIALS SHALL CONFORM TO S.S.P.W.C. 303–5.
2. ALL CURB CONSTRUCTION METHODS SHALL CONFORM TO S.S.P.W.C. 303–5.5.2

11 ROLLED CURB

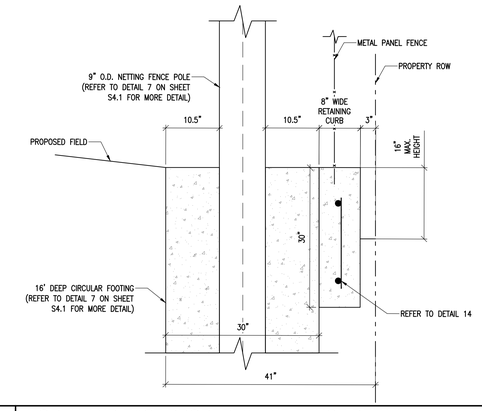



NOTES
1. GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70–50–05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70–50–05
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N–12/HANCOR DUAL WALL), N–12 HP, & PVC SEWER.

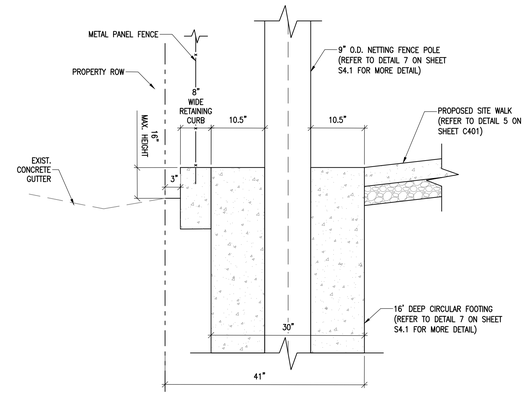
10 12" X 12" SITE DRAIN



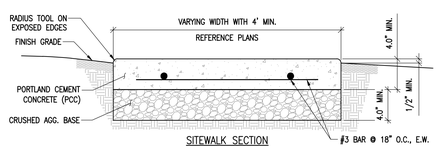

8 UTILITY CROSSING

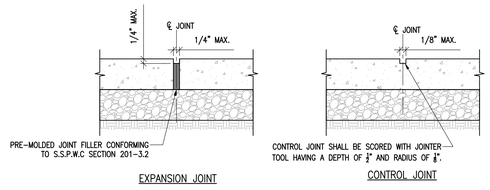



7 NORTH AND EAST PROPERTY LINE FENCE DETAIL



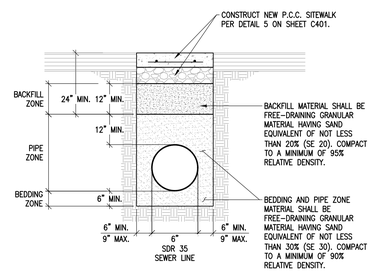

6 WEST PROPERTY LINE FENCE DETAIL



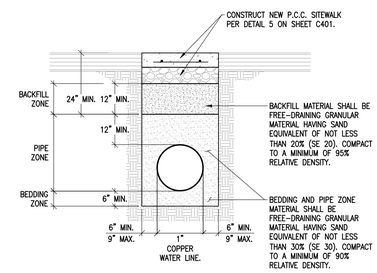

NOTES:
1. ALL SITEWALK MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO S.S.P.W.C. SECTION 303–5.
2. CROSS–SLOPE SHALL NOT EXCEED 2.0% (MAX.)
3. LONGITUDINAL SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT EXCEED 5.0% (MAX.)
4. ALL FORMED EDGES SHALL BE ROUNDED TO A RADIUS OF $\frac{1}{2}$". EXCEPT FOR EDGES AT EXPANSION JOINTS SHALL BE ROUNDED TO A RADIUS OF $\frac{1}{8}$".
5. CRUSHED AGG. BASE MATERIAL SHALL CONFORM TO S.S.P.W.C. SECTION 200–2.2.
6. REINFORCING BAR SHALL CONFORM TO ASTM A615, GR. 60

5 P.C.C. REINFORCED SITEWALK




NOTES:
1. DIMENSIONS SHOWN HERE ARE MINIMUM. MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED PER PROJECT PLANS AND SPECIFICATIONS.
2. SHORING OR SOLID SHEATHING IS REQUIRED FOR DEPTHS OVER 5 FEET. DESIGN CALCULATIONS BY A REGISTERED ENGINEER SHALL BE REQUIRED.

4 SEWER LINE TRENCH

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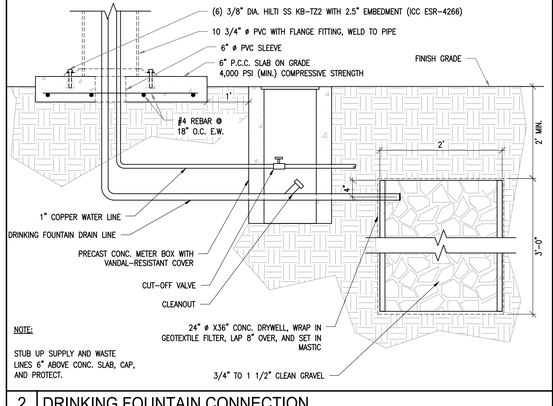
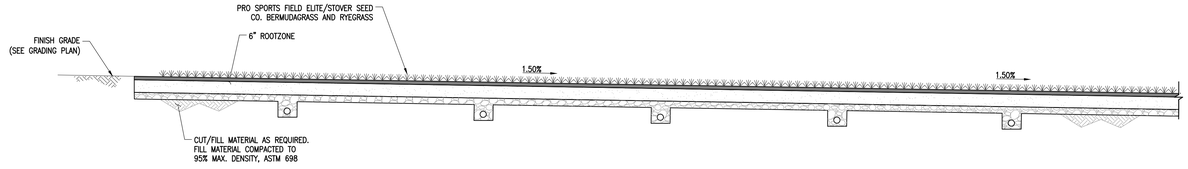
1. DIMENSIONS SHOWN HERE ARE MINIMUM. MORE STRINGENT REQUIREMENTS SHALL BE FOLLOWED PER PROJECT PLANS AND SPECIFICATIONS.
2. SHORING OR SOLID SHEATHING IS REQUIRED FOR DEPTHS OVER 5 FEET. DESIGN CALCULATIONS BY A REGISTERED ENGINEER SHALL BE REQUIRED.

3 WATER LINE TRENCH




NOTE:
STUB UP SUPPLY AND WASTE LINES 6" ABOVE CONC. SLAB, CAP, AND PROTECT.

2 DRINKING FOUNTAIN CONNECTION




SECTION B–B

1 NATURAL GRASS FIELD TYPICAL SECTION

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| REV. | DATE | DESCRIPTION |
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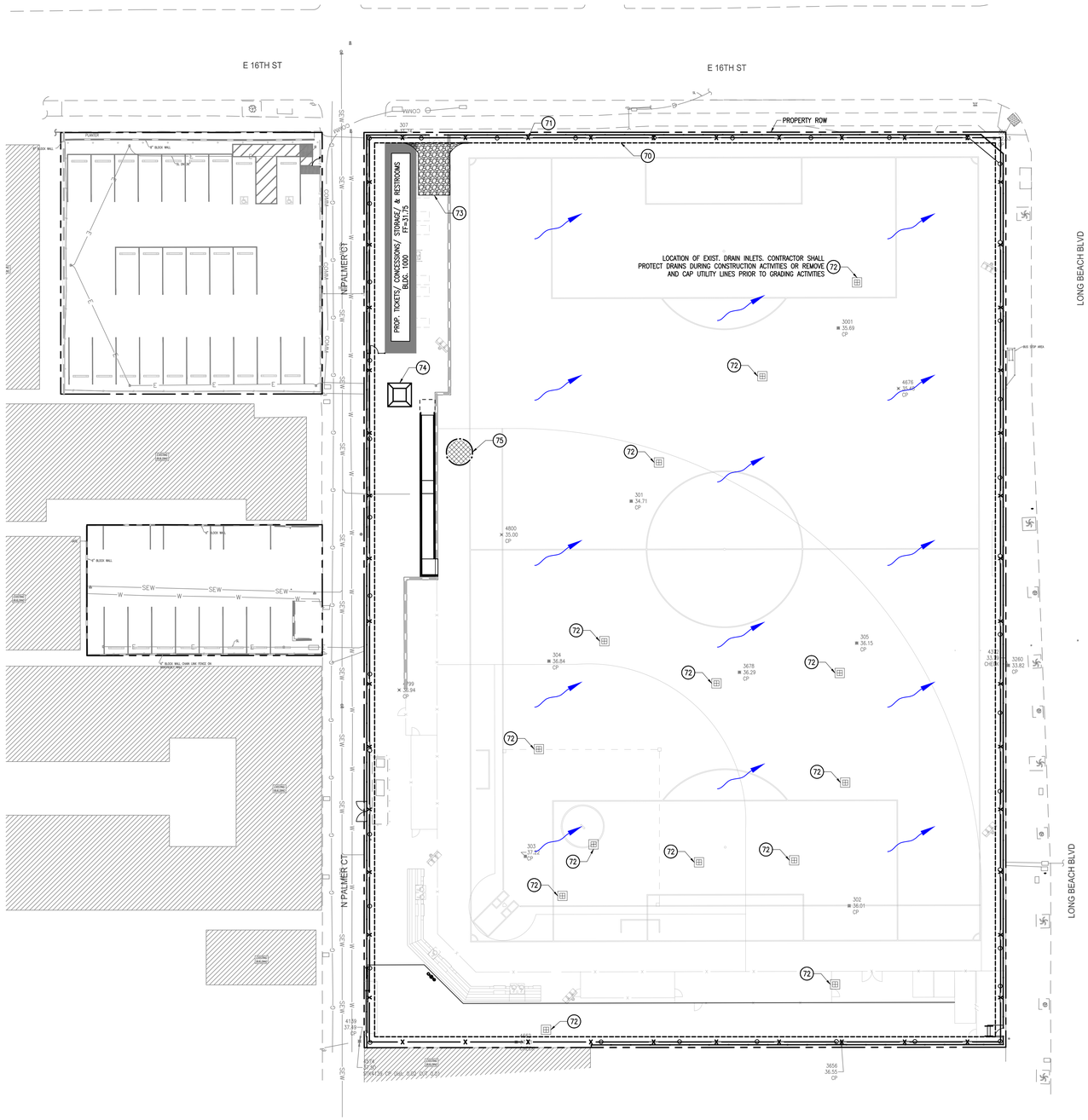
JOB No.: 240469
SCALE: As indicated
PROJ MGR: MC
DATE: 11/10/25

CIVIL DETAILS

C401




NORTH

SCALE: 1" = 20'

## GENERAL EROSION CONTROL NOTES

1. CONTRACTOR SHALL COMPLY WITH MOST RECENT VERSION OF NPDES GENERAL PERMIT FOR STORMWATERDISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES (GENERAL PERMIT).
2. CONTRACTOR MUST IMPLEMENT MINIMUM BEST MANAGEMENT PRACTICES AS DESCRIBED IN GENERAL PERMIT ATTACHMENT D, WHICH INCLUDES BUT IS NOT LIMITED TO:
   a. GOOD SITE MANAGEMENT "HOUSEKEEPING"
   b. COVERING STOCKPILED MATERIAL
   c. MEASURES FOR WASTE MANAGEMENT
   d. VEHICLE/EQUIPMENT STORAGE AND MAINTENANCE
   e. CONTAINMENT FOR CHEMICALS AND OTHER CONSTRUCTION MATERIALS
3. DURING ROUGH GRADING OPERATION AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMPS) SHALL BE PROVIDED TO PREVENT PONDING WATER OR SURFACE RUNOFF TO ADJACENT PROPERTIES.

## LEGEND

- PROPERTY ROW LINE
- SANDBAG BARRIER
- TEMPORARY CONSTRUCTION FENCE
- FLOW DIRECTION
- CONCRETE WASTE MANAGEMENT (WM-8)
- STOCKPILE MANAGEMENT (WM-3)
- TEMPORARY CONSTRUCTION ENTRANCE (TC-1)
- TEMPORARY DRAINAGE INLET PROTECTION (SC-10)

## GENERAL EROSION CONTROL NOTES

70. CONSTRUCT SANDBAG BARRIER PER DETAIL 4 ON SHEET C702.
71. CONSTRUCT TEMPORARY CONSTRUCTION FENCE
72. CONSTRUCT TEMPORARY EXISTING STORM DRAIN INLET PROTECTION PER DETAIL 3 ON SHEET C702.
73. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE/EXIT PER DETAIL 2 ON SHEET C702.
74. CONSTRUCT CONCRETE WASTE MANAGEMENT PER DETAIL 1 ON SHEET C702.
75. CONSTRUCT STOCKPILE MANAGEMENT PER DETAIL 5 ON SHEET C702.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026


Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810


LBUSD No.: 9216-654
PTN No.: 64725-585

REGISTERED PROFESSIONAL ENGINEER
MICHAEL CATTABIANI
C 95778
Exp. 03-31-2028
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1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

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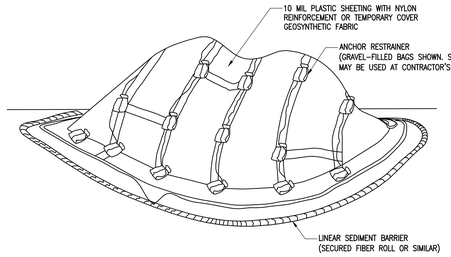
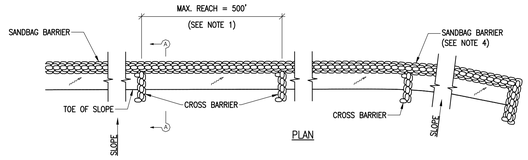
EROSION CONTROL PLAN

C701

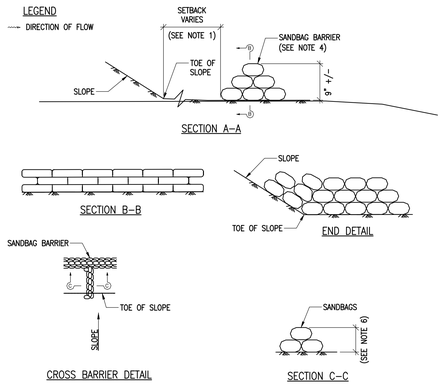



NOTES:
1. ALL STOCKPILES SHALL BE CONTAINED AND COVERED WHEN NOTE ACTIVE, AND SECURED AT THE END OF EACH DAY.
2. STOCKPILES SHALL BE SECURELY COVERED OVERNIGHT, AND PRIOR TO, DURING, AND AFTER RAIN EVENTS.
3. NO MATERIAL SHALL LEAVE THE SITE OR MOVE INTO THE STREET.
4. PLASTER SHEETING HAS LIMITATIONS DUE TO SUNLIGHT BREAKDOWN, HARD TO MANAGE IN WINDY CONDITIONS, AND CAN INCREASE RUNOFF ISSUE FOR PERIMETER CONTROLS. INSPECT FREQUENTLY OR USE GEOSYNTHETIC FABRIC AS APPLICABLE.
5. DO NOTE LOCATE WITHIN 50 FEET OF A STORM DRAIN.

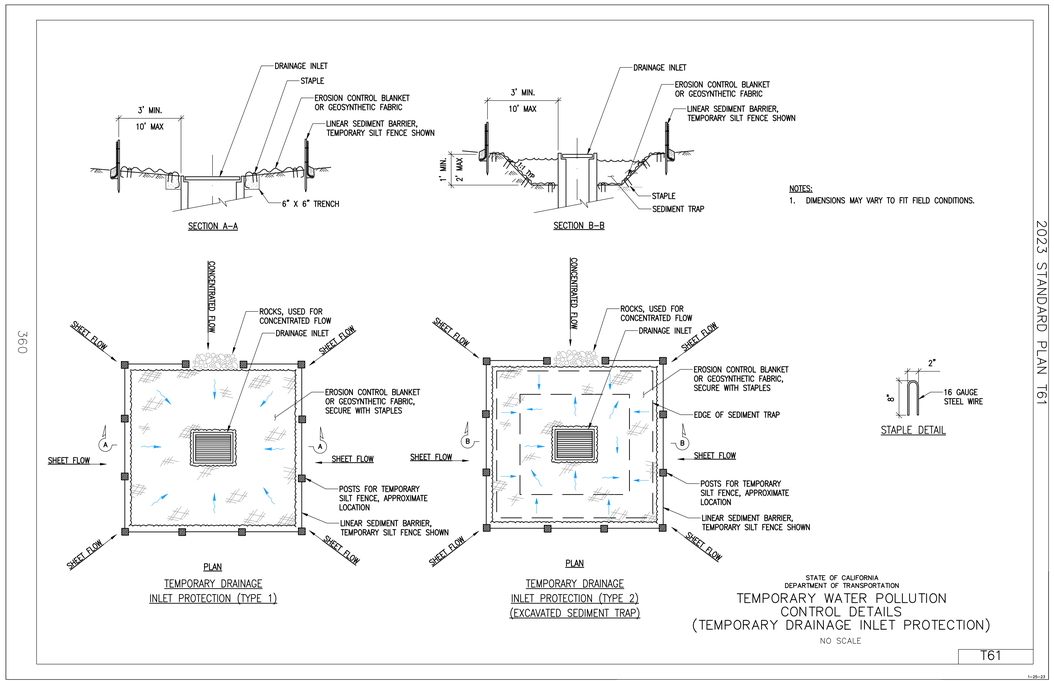
5 STOCKPILE MANAGEMENT (WM-3)



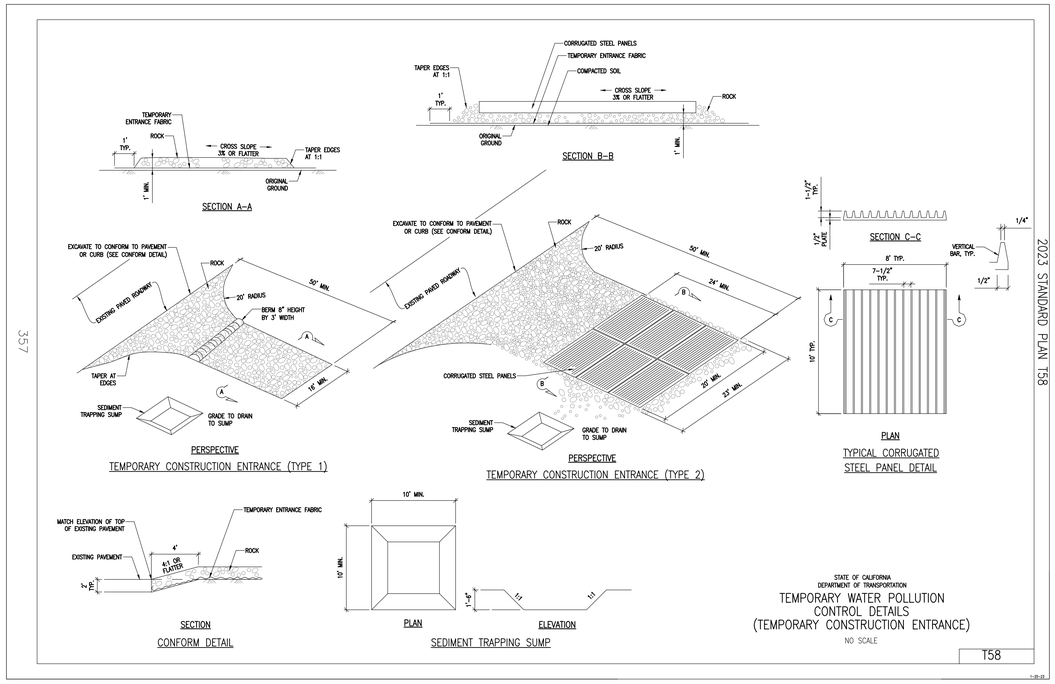

NOTES:
1. CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/2 THE HEIGHT OF THE LINEAR BARRIER. IN NO CASE SHALL THE REACH LENGTH EXCEED 500'.
2. PLACE SANDBAGS TIGHTLY.
3. DIMENSION MAY VARY TO FIT FIELD CONDITION.
4. SANDBAG BARRIER SHALL BE A MINIMUM OF 3 BAGS HIGH.
5. THE END OF THE BARRIER SHALL BE TURNED UP SLOPE.
6. CROSS BARRIERS SHALL BE A MIN. OF 1/2 AND A MAX. OF 2/3 THE HEIGHT OF THE LINEAR BARRIER.
7. SANDBAG ROWS AND LAYERS SHALL BE STAGGERED TO ELIMINATE GAPS.



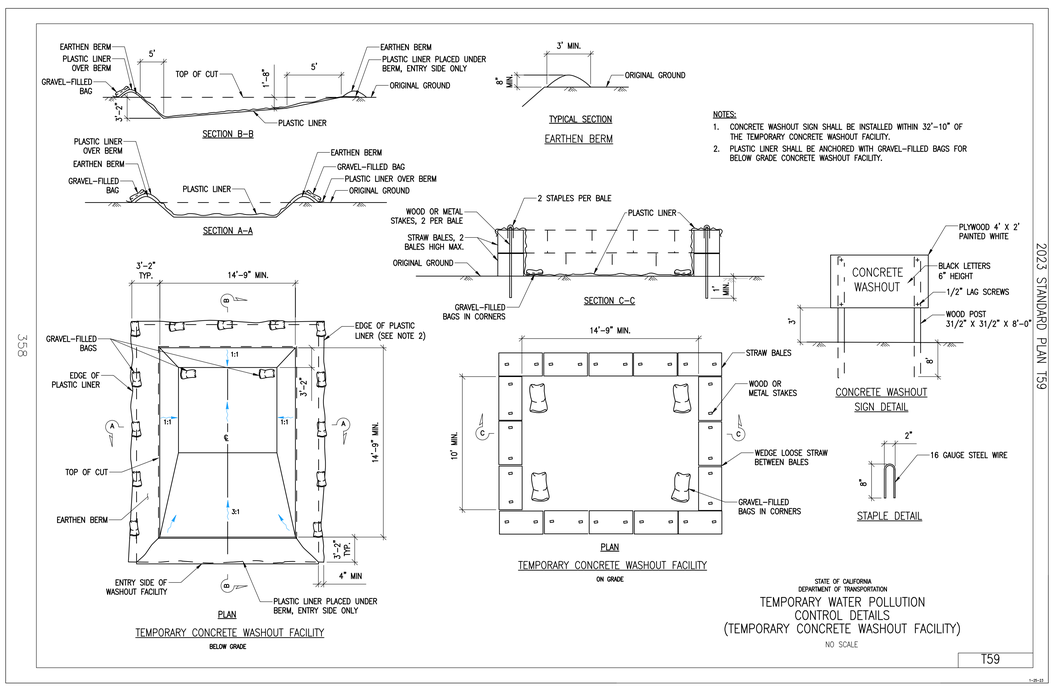

4 SANDBAG BARRIER (SE-8)




3 TEMPORARY STORM DRAIN INLET PROTECTION (SC-10)




2 TEMPORARY CONSTRUCTION ENTRANCE/EXIT (TC-1)




1 CONCRETE WASTE MANAGEMENT (WM-8)

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EROSION CONTROL PLAN DETAILS

**C702**

**PLANTING NOTES:**

1. REFER TO PLANTING SPECIFICATIONS AND DETAILS FOR SOIL PREPARATION, FERTILIZATION, MULCHING AND OTHER PLANTING INFORMATION.
2. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
3. A KICK-OFF MEETING SHOULD OCCUR PRIOR TO STARTING OF HYDRO SEEDING.
4. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY SHOULD FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLAN.
5. REPORT DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT. CORRECTED DRAWINGS OR INSTRUCTION SHALL BE ISSUED PRIOR TO THE CONTINUATION OF THIS WORK. ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.
6. LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND PROTECT THEM FROM DAMAGE. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY AND ASSUME FULL RESPONSIBILITY FOR EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH DAMAGED UTILITIES.
7. LOCATION OF N.I.C. CONSTRUCTION ELEMENTS SUCH AS LIGHTS, SIGNS, VENTS HYDRANTS, TRANSFORMERS, ETC. ARE APPROXIMATE. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY SHOULD THE LOCATION OF THESE ITEMS INTERFERE WITH THE PROPER EXECUTION OF WORK.
8. OBTAIN ALL SOIL FOR LANDSCAPE PLANTING AREAS OR BERMS FROM ON-SITE EXCAVATIONS. SHOULD IMPORT SOIL BE NECESSARY, SUBMIT IMPORT SOIL TESTING RESULTS FOR APPROVAL PRIOR TO IMPORTATION. SOIL SHALL BE SANDY LOAM CONTAINING NO TOXIC CHEMICALS OR ELEMENTS WHICH MAY INHIBIT OR RETARD NORMAL PLANT GROWTH.
9. HAVE SAMPLES TESTED BY A CERTIFIED AGRONOMIC SOILS TESTING LAB, FOR SOIL FERTILITY, AGRICULTURAL SUITABILITY TEST AND SOIL PREPARATION RECOMMENDATIONS. TAKE TWO SAMPLES AT EACH LOCATION: (1) GROUND LEVEL TO 10" DEEP, (2) 24" TO 36" DEEP. EACH SAMPLE SHALL CONTAIN APPROXIMATELY 1 QUART OF SOIL TO BE LABELED PER LOCATION AND DEPTH. INSTALL SOIL PREPARATION AND BACK FILL MIX TO CONFORM TO THESE RECOMMENDATIONS ONLY UPON RECEIPT OF WRITTEN CHANGE ORDER FROM OWNER. SUBMIT SOIL REPORT TO LANDSCAPE ARCHITECT PRIOR TO PLANTING. IF LOCATIONS FOR SOILS TEST ARE NOT FOUND ON PLANS IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE LANDSCAPE ARCHITECT FOR SAID LOCATIONS PRIOR TO BEGINNING ANY WORK. FOR BID PURPOSES, PROVIDE SOIL PREPARATION AND BACKFILL BID BASED ON SOILS RECOMMENDATIONS REPORT PROVIDED BY OWNER.
10. KILL AND REMOVE ALL EXISTING WEEDS FROM SITE AREAS PER SPECIFICATIONS.
11. ASSURE POSITIVE DRAINAGE IN ALL PLANTING AREAS, 2% MINIMUM.
12. LOCATE AND TAG ALL PLANT MATERIAL. MATERIAL SHALL BE IN CONFORMANCE WITH PLANTING PLAN DESCRIPTIONS AND SPECIFICATIONS. ALL PLANT MATERIAL IS SUBJECT TO REVIEW AND APPROVAL PRIOR TO INSTALLATION. PROVIDE PHOTOS OF REPRESENTATIVE EXAMPLES OF EACH TAGGED BLOCK TO LANDSCAPE ARCHITECT MINIMUM 21 DAYS BEFORE ANTICIPATED DELIVERY. PHOTOS SHALL INCLUDE A PERSON FOR SCALE PURPOSES. LANDSCAPE ARCHITECT MAY OPT TO REVIEW MATERIAL AT GROWING NURSERY. MATERIAL DELIVERED TO THE SITE MAY BE REJECTED BASED ON UNHEALTHFUL APPEARANCE OR NON CONFORMANCE WITH SPECIFICATIONS EVEN IF PREVIOUSLY REVIEWED BY THE LANDSCAPE ARCHITECT OR OWNER.
13. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM.
14. FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
15. PLANTING QUANTITIES ARE GIVEN FOR CONVENIENCE ONLY. PLANT SYMBOLS AND SPECIFIED SPACING SHALL TAKE PRECEDENCE.
16. AT EDGES OF PLANTING AREAS, THE CENTER LINE OF THE LAST ROW OF SHRUBS AND/OR GROUND COVER SHALL BE LOCATED NO FARTHER FROM THE EDGE THAN ONE-HALF THE SPECIFIED ON-CENTER SPACING.
17. INSTALL GROUND COVER AND/OR SHRUB MASSES WITH TRIANGULAR SPACING UNLESS OTHERWISE INDICATED.
18. PROVIDE FERTILIZER TABLETS FOR EACH CONTAINER GROWN PLANT 1 GALLON AND LARGER PER SPECIFICATIONS.
19. FOR ALL TREES WITHIN 10'-0" OF PAVING, INSTALL ROOT BARRIER ALONG PAVING EDGE BY DEEP ROOT CORPORATION (800) 458-7668.
20. ALL CURVE TO CURVE AND CURVE TO TANGENT LINES SHALL BE NEAT, TRIM, SMOOTH AND UNIFORM.
21. REMOVE ALL NURSERY STAKES AND ESPALIER RACKS IMMEDIATELY AFTER INSTALLATION UPON PROVIDING SUPPORT PER PLAN.
22. LIST ON THE PLANT MATERIAL GUARANTEE ALL EXISTING TREES THAT HAVE HAD WORK PERFORMED WITHIN 6' OF TRUNK.
23. PALMS - ANY PALMS INDICATED ON THE PLANS SHALL BE FURNISHED BY THE CONTRACTOR IN A "SKINNED" TRUNK CONDITION UNLESS NOTED OTHERWISE OR INDICATED BY THE LANDSCAPE ARCHITECT.
24. DURING THE LENGTH OF THE GUARANTEE PERIOD BE RESPONSIBLE FOR PROPER STAKING AND/OR GUYING OF TREES TO ENSURE STABILITY.
25. MULCH ALL LANDSCAPE AREAS (EXCLUDING TURF) HAVING LESS THAN A 2:1 SLOPE WITH A 3" DEEP LAYER OF DECORATIVE BARK MULCH - SMALL BARK; OBTAINED FROM SOCAL MULCH, INC. @ https://socalmulch.com/decorative-ground-cover/

**TREE PROTECTION NOTES:**

LARGE ELEMENTS LIKE TREES ARE SLOW TO ADJUST TO CHANGES IN THEIR ENVIRONMENT. TYPICALLY THE MOST DAMAGING IMPACTS TO TREES ARE FROM LOSS OF ROOTS, REDUCED WATER AVAILABILITY AND CHANGES IN SOIL LEVEL OR GRADE. THESE CHANGES RESULT IN A SLOW DECLINE OF TREES HEALTH OVER MANY YEARS AND OFTEN IS IRREVERSIBLE. IF A ROOT OR TREE CONFLICT OCCURS THE LANDSCAPE ARCHITECT MUST BE CONTACTED SO THAT APPROPRIATE ACTION IS TAKEN TO RESOLVE THE CONFLICT.

CONSTRUCTION IMPACTS ARE GENERALLY AS FOLLOWS:

COMPACTION - SOIL MUST BE POROUS TO ALLOW WATER AND AIR TO BE AVAILABLE TO ROOTS. COMPACTED SOIL WHILE REQUIRED FOR STRUCTURAL BUILDING DOES REDUCE OR ELIMINATE THE ROOT GROWTH REQUIREMENTS OF AN EFFECTIVE ROOTING AREA.

DRAINAGE - SOIL MOISTURE CAN BE AFFECTED BY ALTERED DRAINAGE PATTERNS. TOO MUCH OR TOO LITTLE SOIL MOISTURE CAN HAVE A DETRIMENTAL EFFECT ON TREE ROOT GROWTH AND TREE ANCHORAGE AS WELL AS TREE HEALTH.

GRADE CHANGES - ADDING SOIL OVER EXISTING ROOTS OF TREES IS DETRIMENTAL TO THEIR HEALTH. REMOVING SOIL AND THE ROOTS IT CONTAINS IS ALSO DETRIMENTAL TO TREE HEALTH. THE TREES WILL DECLINE AND DIE OVER A PERIOD OF YEARS. PAST PRACTICES WITH TREE WELLS AND TREE ISLANDS HAVE NOT PROVEN EFFECTIVE AS A TREE PRESERVATION METHOD.

TREE ROOT DAMAGE - TREE ROOT DAMAGE USUALLY RESULTS FROM EXCAVATING, SOIL TRENCHING AND GRADE CHANGES. WHEN ROOTS ARE ENCOUNTERED THEY SHOULD NOT BE PULLED OR TORN OUT IF THEY ARE ATTACHED TO A PRESERVED TREE. ROOTS OVER 1 INCH IN DIAMETER WITHIN A RADIUS OF 8 FEET OF A PROTECTED TREE WILL REQUIRE DISCUSSION WITH THE LANDSCAPE ARCHITECT TO DETERMINE IMPACT OF LOSS. WHEN ROOT PRUNING IS REQUIRED, ROOTS SHALL BE SQUARE CUT IN A PROPER MANNER TO AVOID FRAYED ENDS. THIS REDUCES DECAY AND PROMOTES FASTER CLOSURE AND RE-GROWTH. WOUND DRESSING MATERIAL IS NOT REQUIRED. DURING HARDSCAPE, WALKWAYS, ETC. REMOVAL, PLEASE ARRANGE FOR A LANDSCAPE ARCHITECT TO BE PRESENT TO ENSURE THAT ANY ROOT REMOVAL DOES NOT CREATE UNNECESSARY IMPACT OF TREES TO BE PRESERVED.

TREE PHYSICAL INJURY - THIS OCCURS FROM DIRECT EQUIPMENT IMPACT AND CULTURAL CHANGES TO SOIL MOISTURE OR CHEMICAL / PETROL CONTAMINATION TO SOIL. MAINTAINING SUFFICIENT CLEARANCE AWAY FROM THE TREE WILL REDUCE THE DIRECT IMPACT FROM EQUIPMENT. IF OVERHEAD CLEARANCE IS REQUIRED CONTACT THE LANDSCAPE ARCHITECT FOR RESOLUTION.

THE FOLLOWING GUIDELINES ARE NECESSARY TO PROTECT TREES DURING CONSTRUCTION PROJECTS:

1. A ROOT PROTECTION ZONE SHALL BE DEFINED BY A FOUR-FOOT HIGH TWO-BY-FOUR BARRIER CONSTRUCTED AROUND ANY POTENTIALLY IMPACTED TREE. THIS BARRIER SHALL BE AT THE DRIP LINE OR AT A DISTANCE FROM THE TRUNK EQUAL TO 6 INCHES FOR EACH INCH OF TRUNK DIAMETER 4 1/2 FEET ABOVE THE GROUND IF THIS METHOD DEFINES A LARGER AREA.
2. SHOULD IT BE NECESSARY TO TRENCH WITHIN THE 8 FT RADIUS OF TREE, TRENCHES SHALL BE HAND DUG. NO ROOTS LARGER THAN ONE INCH SHALL BE CUT UNLESS NO OTHER ALTERNATIVE IS FEASIBLE. ALL SMALLER ROOTS THAT MUST BE CUT SHALL BE SAW CUT (NO TRENCHERS) FLUSH WITH THE SIDE OF THE TRENCH. IF AT ANY TIME 25 PERCENT OF THE AREA WITHIN THE ROOT PROTECTION ZONE IS BEING SEPARATED FROM THE TREES BY A TRENCH, THE LINE SHALL BE LOCATED BY BORING OR AN ALTERNATIVE LOCATION FOR THE TRENCH ESTABLISHED. THE MINIMUM CLEARANCE BETWEEN AN OPEN TRENCH AND A STREET TREE SHALL BE ONE (1) FOOT, OR SIX (6) INCHES FOR EACH INCH OF TRUNK DIAMETER MEASURED AT 4.5 FEET ABOVE EXISTING GRADE IF THIS METHOD DEFINES A LARGER DISTANCE. THE MAXIMUM CLEARANCE SHALL BE TEN (10) FEET. THE CONTRACTOR SHALL CONFORM TO THESE PROVISIONS UNLESS OTHERWISE DIRECTED OTHERWISE.
3. AT NO TIME SHALL ANY EQUIPMENT, MATERIALS, SUPPLIES OR FILL BE ALLOWED WITHIN THE PRESCRIBED ROOT PROTECTION ZONE UNLESS OTHERWISE DIRECTED. THE ROOT PROTECTION ZONE IS DEFINED AS THE LARGER OF THE DRIP LINE OF THE TREE OR THE DISTANCE FROM THE TRUNK EQUAL TO SIX (6) INCHES FOR EACH INCH OF TRUNK DIAMETER MEASURED AT 4.5 FEET ABOVE EXISTING GRADE.
4. WHEN DEALING WITH COLUMNAR TREE SPECIES THE DRIP LINE AND ROOT PROTECTION ZONE IS INADEQUATE AND MUST BE ADJUSTED TO REFLECT A ROOT PROTECTION RADIUS OF 40% OF THE OVERALL TREE HEIGHT.

**HYDROSEEDING PROCEDURES:**

1. SEED MIXES SHALL BE SPECIFIED BY THE PURE LIVE SEED OF EACH SPECIES.
2. FIBER MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2,000 POUNDS PER ACRE EXCEPT WHEN USED IN CONJUNCTION WITH STRAW MULCH, WHEN IT SHALL BE APPLIED AT A MINIMUM RATE OF 400 POUNDS PER ACRE.
3. A WETTING AGENT CONSISTING OF 95 PERCENT ALKYL POLYETHYLENE GLYCOL ETHER SHALL BE APPLIED AS PER MANUFACTURERS RECOMMENDATIONS.
4. EQUIPMENT USED FOR THE APPLICATION OF SLURRY SHALL HAVE A BUILT-IN AGITATION SYSTEM TO SUSPEND AND HOMOGENEOUSLY MIX THE SLURRY. THE SLURRY MIX SHALL BE DYED GREEN. THE EQUIPMENT MUST HAVE A PUMP CAPABLE OF APPLYING SLURRY UNIFORMLY.

**MAINTENANCE REQUIREMENTS:**

1. PERMANENTLY IRRIGATED SLOPES SHALL BE MAINTAINED FOR A PERIOD NO LESS THAN 90 DAYS.
2. NONPERMANENTLY IRRIGATED AREAS SHALL BE MAINTAINED FOR A PERIOD NOT LESS THAN 25 MONTHS.
3. ALL REVEGETATED AREAS SHALL BE MAINTAINED. MAINTENANCE PERIOD BEGINS ON THE FIRST DAY FOLLOWING ACCEPTANCE AND MAY BE EXTENDED AT THE DETERMINATION OF THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
4. PRIOR TO FINAL APPROVAL, THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE MAY REQUIRE CORRECTIVE ACTION INCLUDING BUT NOT LIMITED TO, REPLANTING, THE PROVISION OR MODIFICATION OF IRRIGATION SYSTEMS, AND THE REPAIR OF ANY SOIL EROSION OR SLOPE SLIPPAGE.

**LONGTERM MAINTENANCE:**

ALL REQUIRED LANDSCAPE AREAS TO BE MAINTAINED BY OWNER. THE LANDSCAPED AREAS SHALL BE MAINTAINED FREE OFF DEBRIS AND LITTER AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. LANDSCAPE AS PART OF THE PROJECT SHALL BE MAINTAINED AND IRRIGATED FOR THE LIFE OF THE PERMIT.

**DISTURBED AREA NOTE:**

ALL GRADED, DISTURBED OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED OR COVERED BY STRUCTURES SHALL BE PERMANENTLY RE-VEGETATED AND IRRIGATED.

**INVASIVE PLANT NOTE:**

ALL EXISTING, INVASIVE PLANT SPECIES, INCLUDING VEGETATIVE PARTS AND ROOT SYSTEMS, SHALL BE COMPLETELY REMOVED FROM THE PREMISES WHEN THE COMBINATION OF SPECIES, TYPE, LOCATION, AND SURROUNDING ENVIRONMENTAL CONDITIONS PROVIDES A MEANS FOR THE SPECIES TO INVADE OTHER AREAS OF NATIVE PLANT MATERIAL THAT ARE ON OR OFF OF THE PREMISES.

**UTILITY SCREENING:**

ALL WATER, SEWER, AND GAS UTILITIES SHALL BE EFFECTIVELY SCREENED WITH PLANT MATERIAL AT THE TIME OF PLANT INSTALLATION.

**ROOT BARRIER:**

NON-BIODEGRADEABLE ROOT BARRIERS SHALL BE INSTALLED AROUND ALL NEW STREET TREES WITHIN 10' OF HARDSCAPE SURFACES.


Agency Approval

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2425 Webster Avenue
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LBUSD No.: 9216-654
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Facilities Management

Stamps

LICENSED LANDSCAPE ARCHITECT
Akiko Ishii Lic. #4894
Signature
EXPIRATION DATE 04/30/2026
STATE OF CALIFORNIA

Architect

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Project

POLYTECHNIC HIGH SCHOOL
1545 LONG BEACH BLVD.
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IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
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Sheet Info

| | |
|---|---|
| JOB No.: | 240469 |
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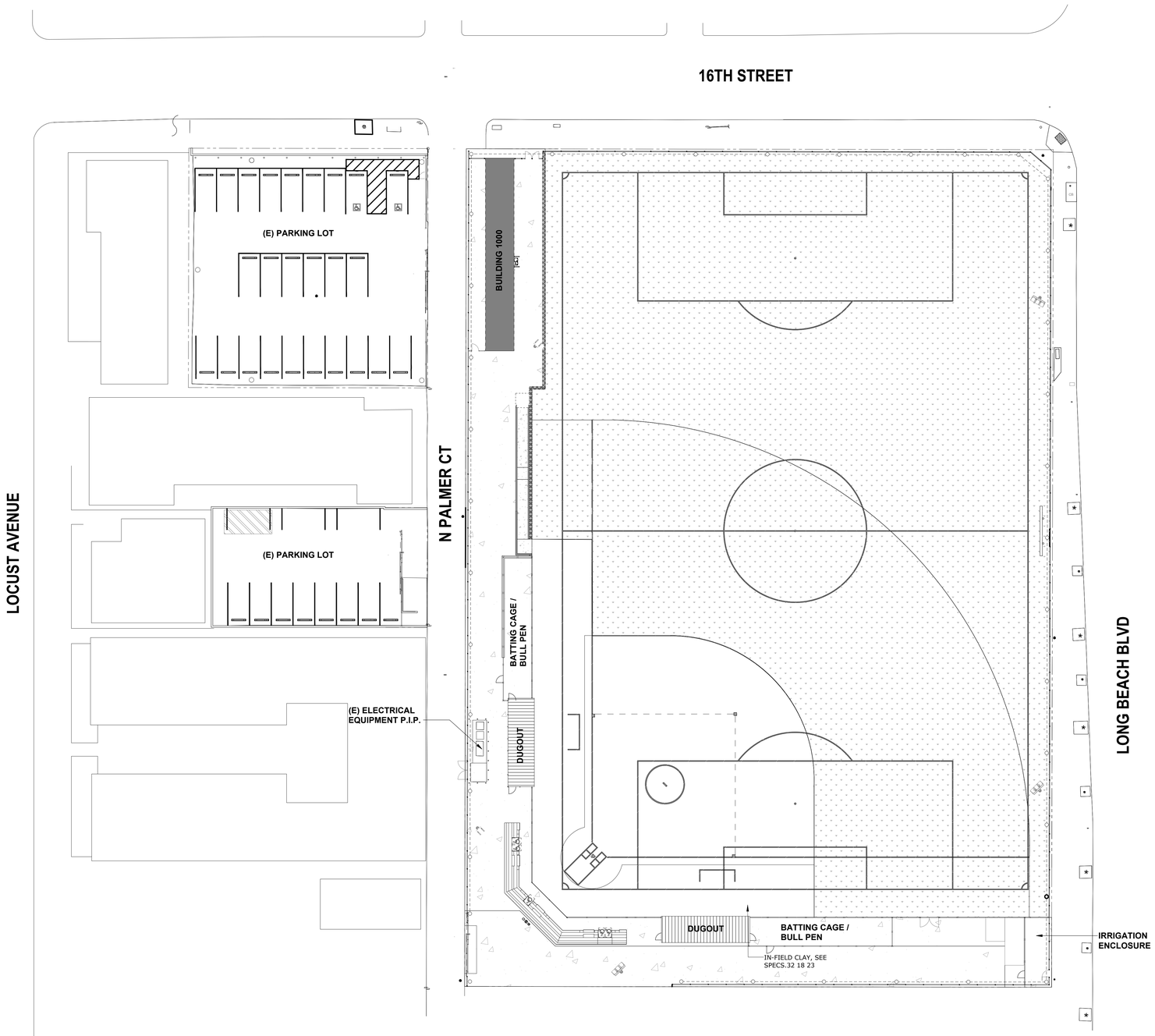
Sheet Title

PLANTING NOTES

Sheet No.

L1.00




## PLANT SCHEDULE

| SYMBOL | BOTANICAL / COMMON NAME | QTY | SIZE |
|---|---|---|---|
| TURF | | | |
| | PRO SPORTS FIELD ELITE™ / STOVER SEED CO.<br>BERMUDAGRASS & RYEGRASS | 54,569 SF | SEED |

SEEDING RATES :
10-12 POUNDS PER 1000 SF OR 400-500 POUNDS PER ACRE

SPECIES:
SAHARA BERMUDAGRASS (UNHULLED COATED)
ALLAIRE 3 PERENNIAL RYEGRASS
EVENING SHADE PERENNIAL RYEGRASS

N
0 10 20 40
SCALE: 1"=20'-0"

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Alan Ishii Lic. 4088
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Architect

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www.edgelandgroup.com

Project

POLYTECHNIC HIGH SCHOOL
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

JOB No.: 240469
SCALE: As indicated
PROJ MGR: AI
DATE: 11/12/25

Sheet Title

PLANTING PLAN

Sheet No.

L1.01

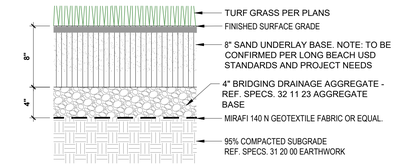
AASHTO CLASS II PERFORATION

1. CLASS II PERFORATIONS SHALL BE LOCATED IN THE OUTSIDE BETWEEN THE SPECIFICATIONS ARE CORRUGATIONS, BE CIRCULAR AND/OR SLOTTED AND EVENLY SPACED AROUND THE CIRCUMFERENCE AND LENGTH OF PIPE. THE PERFORATIONS SHALL BE LOCATED IN THE OUTSIDE VALLEYS OF THE CORRUGATIONS. THE WATER INLET AREA SHALL BE NO LESS THAN 0.945 in /ft$^2$(20 cm$^2$/m) FOR PIPE DIAMETERS 4- THROUGH 10 INCH (100-250mm), 1.42 in$^2$/ft (30 cm$^2$/m) FOR PIPE DIAMETERS 12-THROUGH 18 INCH (300-450 mm) AND 1.89 in$^2$/ft (40 cm$^2$/m) FOR PIPE DIAMETERS LARGER THAN AND EQUAL TO 24 INCHES (600mm). TABLE BELOW REPRESENTS ADS STANDARD PERFORATION PATTERNS FOR AASHTO CLASS II.

| Nominal I.D. | | Perforation Type | Maximum Slot Length or Diameter | | Maximum Slot Width | | Minimum Inlet Area | |
|---|---|---|---|---|---|---|---|---|
| in | mm | | in | mm | in | mm | in$^2$/ft | cm$^2$/m |
| 4 | 100 | Slot | 0.875 | 22 | 0.125 | 3 | 1.0 | 21 |
| 6 | 150 | Slot | 0.875 | 22 | 0.125 | 3 | 1.0 | 21 |
| 8 | 200 | Slot | 1.18 | 30 | 0.125 | 3 | 1.0 | 21 |
| 10 | 250 | Slot | 1.18 | 30 | 0.125 | 3 | 1.0 | 21 |
| 12 | 300 | Circular | 0.313 | 8 | - | - | 1.5 | 32 |
| 15 | 375 | Circular | 0.313 | 8 | - | - | 1.5 | 32 |
| 18 | 450 | Circular | 0.313 | 8 | - | - | 1.5 | 32 |
| 24 | 600 | Circular | 0.313 | 8 | - | - | 2.0 | 42 |
| 30 | 750 | Circular | 0.375 | 9.5 | - | - | 2.0 | 42 |
| 36 | 900 | Circular | 0.375 | 9.5 | - | - | 2.0 | 42 |
| 42 | 1054 | Circular | 0.375 | 9.5 | - | - | 2.0 | 42 |
| 48 | 1200 | Circular | 0.375 | 9.5 | - | - | 2.0 | 42 |
| 54 | 1350 | Circular | 0.375 | 9.5 | - | - | 2.0 | 42 |
| 60 | 1500 | Circular | 0.375 | 9.5 | - | - | 2.0 | 42 |

## 3 STANDARD PERFORATION PATTERNS

1" = 1" P-PO-00




NOTES:

1. ALL ROOTZONE MATERIAL SHALL BE APPROVED PRIOR TO PLACEMENT ON THE PLAYING FIELD.
2. A MINIMUM UNIFORMITY COEFFICIENT OF 2.5 MUST BE PROVIDED AND MAINTAINED.

## 1 NATURAL TURF PROFILE

1 1/2" = 1'-0" P-PO-01

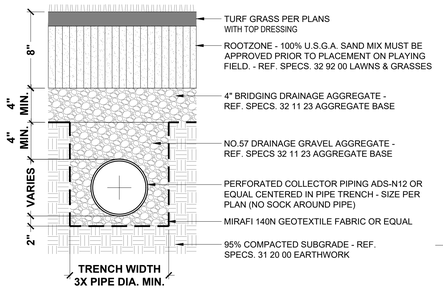
ADS PERIMETER COLLECTOR PIPES AND TRENCH WIDTH REQUIREMENTS, UNLESS OTHERWISE DENOTED ON PLANS.

| MINIMUM TRENCH WIDTHS | |
|---|---|
| PIPE DIAMETER IN. (MM) | TRENCH WIDTH IN. (M) |
| 4 - 8 (100 - 200) | * |
| 10 (250) | 28 (0.7) |
| 12 (300) | 30 (0.8) |
| 15 (375) | 34 (0.9) |
| 18 (450) | 39 (1.0) |
| 24 (600) | 48 (1.2) |
| 30 (750) | 56 (1.4) |
| 36 (900) | 64 (1.6) |
| 42 (1050) | 72 (1.8) |
| 48 (1200) | 80 (2.0) |
| 54 (1350) | 88 (2.2) |
| 60 (1500) | 96 (2.4) |

*USUALLY DEPENDANT ON SMALLEST BUCKET SIZE AVAILABLE.

## 4 MINIMUM TRENCH WIDTH TABLE

1" = 1" P-PO-99

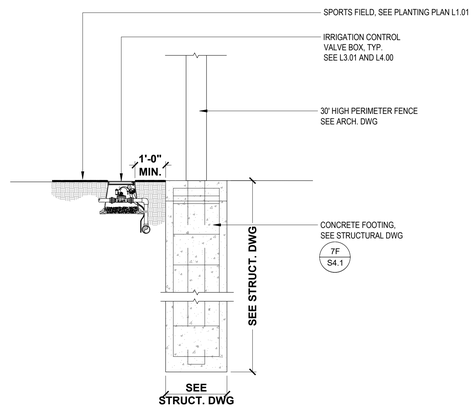



NOTES:

1. REFER TO SUBSURFACE COLLECTION PLAN FOR PIPE INVERT ELEVATION INFORMATION.
2. MAINTAIN 2" DRAINAGE GRAVEL BELOW COLLECTOR PIPE AS DEPICTED ABOVE.
3. MIRAFI 140 N GEOTEXTILE FABRIC WILL LINE THE BOTTOM, SIDES, AND ENTIRE FINISHED SUBGRADE.
4. CONTRACTOR TO SLOPE SUB-GRADE, PIPE TRENCHES AND DRAINAGE GRAVEL STONE TO ALLOW FOR POSITIVE SUB-SURFACE DRAINAGE TO PERFORATED PERIMETER COLLECTOR PIPE.

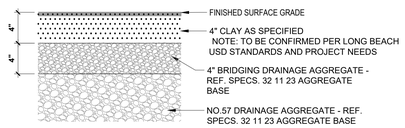
## 2 PERFORATED PIPING & TRENCHING - SPORTS FIELD NATURAL TURF

1 1/2" = 1'-0" P-PO-04




## 5 SECTION AT 30' HIGH FENCE & IRRIGATION CONTROL VALVE BOX

1/2" = 1'-0" P-PO-100




NOTES:

1. ALL CLAY MATERIAL SHALL BE APPROVED PRIOR TO PLACEMENT ON THE PLAYING FIELD.

## 6 IN-FIELD CLAY SECTION

1 1/2" = 1'-0" P-PO-103

Agency Approval

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long beach unified school district

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PTN No.: **64725-585**
**Facilities Management**

Stamps

LICENSED LANDSCAPE ARCHITECT
Alfred Ishii Lic. 4905
Signature
EXPIRATION DATE 04/30/2026
STATE OF CALIFORNIA

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PLANTING DETAILS

Sheet No.

L2.00

**IRRIGATION NOTES:**

1. ALL PRESSURE LINES SHALL BE TESTED FOR TWO HOURS UNDER HYDROSTATIC PRESSURE OF 150 PSI AND BE PROVEN WATER TIGHT. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT FOR TEST.

2. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE PLANS.
   2.1. ALL POP-UP SPRINKLER HEADS IN SHRUB OR GROUNDCOVER AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER IS 1" ABOVE FINISHED GRADE.
   2.2. THE CONTRACTOR SHALL INSTALL ALL SPRINKLERS LOCATED WITHIN TURF AREAS ON A 6" POP-UP BODY. ALL SPRINKLERS LOCATED IN PLANTER AREAS ADJACENT TO WALKS, TURF AREAS AND POOL/SPA COPING SHALL BE INSTALLED ON 12" POP-UP BODIES. ALL OTHER SPRINKLERS SHALL BE INSTALLED ON 12" HIGH FIXED RISERS.

3. THE SPRINKLER SYSTEM IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT EACH POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT TO THE OWNER'S AUTHORIZED REPRESENTATIVE ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

4. THE FINAL LOCATION OF THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. 120 VOLT ELECTRICAL POWER AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE FINAL HOOK-UP FROM THE ELECTRICAL OUTLET TO THE CONTROLLER IN ACCORDANCE WITH LOCAL ELECTRICAL CODE.

5. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS, UNDER BUILDING/WALL FOUNDATIONS, AND OUTSIDE OF THE PROJECT BOUNDARY ARE FOR PLAN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE CONTROL AND QUICK COUPLING VALVES 6" TO 12" AWAY FROM HARDSCAPE OR TURF AREA FOR EASY ACCESS.

6. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND THROTTLING THE FLOW CONTROL AT EACH VALVE TO OBTAIN OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.

7. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN SITE DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN FORESEEN AND CONSIDERED IN THE ENGINEERING. THE OWNER'S AUTHORIZED REPRESENTATIVE SHOULD BE INFORMED OF SUCH OBSTRUCTIONS AND DIFFERENCES, BUT IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

8. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN CONSTRUCTION DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL PVC MALE PIPE THREADS OF ALL SPRINKLER SWING JOINT AND VALVE ASSEMBLIES.

9. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL EXERCISE EXTREME CARE, AND BE RESPONSIBLE FOR ANY DAMAGE IN EXCAVATING AND WORKING NEAR UTILITIES. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION OF UTILITIES AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, AND NEAR STRUCTURES.

10. DRAINAGE OF WATER THROUGH SPRINKLER HEAD WILL NOT BE ALLOWED. SOME SPRINKLERS WILL REQUIRE THE INSTALLATION OF AN ANTI-DRAIN VALVE IN THE RISER NIPPLE TO PREVENT DRAINAGE. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL AN ANTI-DRAIN VALVE AS REQUIRED AT ANY SPRINKLER SHOWING SIGNS OF DRAINING AFTER THE IRRIGATION SYSTEM HAS OPERATED FROM AN ON TO OFF POSITION. INSTALLATION OF ANTI-DRAIN VALVES SHALL BE INCLUDED IN THE BID PRICE WITHOUT ADDITIONAL COST TO THE OWNER.

11. ALL PIPE ADJACENT TO SIDEWALKS, CURBS, AND OR AT TOP AND TOE OF SLOPES TO BE PVC BURIED AS PER THE DETAILS AND SPECIFICATIONS.

12. VALVES ARE SHOWN IN HARDSCAPE AREAS ONLY FOR GRAPHIC CLARITY.

13. ALL LANDSCAPE AND IRRIGATION SHALL COMPLY WITH THE CITY'S LAND DEVELOPMENT CODE, LANDSCAPE REGULATIONS; LAND DEVELOPMENT MANUAL, LANDSCAPE STANDARDS; AND ALL OTHER CITY AND REGIONAL STANDARDS.

14. ALL LANDSCAPE AREAS NOT CONTAINING TREES SHALL HAVE A MINIMUM FINISHED DIMENSION OF 3 FEET (WIDTH) MEASURED FROM THE INSIDE FACE OF PAVEMENT.

15. EACH TREE SHALL BE PLANTED IN AN AIR AND WATER_PERMEABLE PLANTING AREA OF AT LEAST 40 SQUARE FEET WITH A MINIMUM FINISHED DIMENSION (WIDTH) OF 5 FEET MEASURED FROM THE INSIDE FACE OF PAVEMENT. THE PLANTING AREA SHALL BE UNENCUMBERED BY UTILITIES.

16. ALL IRRIGATION DESIGN AND INSTALLATION SHALL CONFORM WITH THE LANDSCAPE STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH AND IMPLEMENT THE LANDSCAPE STANDARDS.

17. ANY CHANGES TO THE SITE AND/OR LANDSCAPE PLANS SHALL BE SUBMITTED TO THE CITY LANDSCAPE PLANNER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING.

18. ANY DISCREPANCY OR CONFLICTS IN DIMENSIONS, LANDSCAPE AREA OR MATERIAL SHALL BE BROUGHT TO THE ATTENTION OF THE CITY LANDSCAPE PLANNER, THE OWNERS, AND THE DESIGNER/ ARCHITECT PRIOR TO INSTALLATION.

19. TREES REQUIRED BY THIS DIVISION SHALL BE SELF SUPPORTING, WOODY PLANTS WITH AT LEAST ONE WELL DEFINED TRUNK AND SHALL NORMALLY ATTAIN A MATURE HEIGHT AND SPREAD OF AT LEAST 15 FEET WITHIN 8 YEARS OF PLANTING.

20. THE IRRIGATION SYSTEM SHALL BE INSTALLED WITH A RAIN SHUT-OFF DEVICE.

21. GRADED, DISTURBED, OR ERODED AREAS TO BE TREATED WITH NON-IRRIGATED HYDROSEED MIX SHALL RECEIVE AN INTERIM BINDER/TACKIFIER AS NEEDED BETWEEN APRIL 2ND AND AUGUST 31ST FOR DUST/EROSION CONTROL WITH SUBSEQUENT APPLICATION OF THE HYDROSEED MIX DURING THE RAINY SEASON BETWEEN OCTOBER 1ST. AND APRIL 1ST. SUPPLEMENTAL MANUAL IRRIGATION WILL BE IMPLEMENTED IF DEEMED NECESSARY BY THE PROJECT BIOLOGIST AND/OR THE DEVELOPMENT SERVICES DEPARTMENT AND MAY INCLUDE HAND WATERING OR UTILIZATION OF A WATER TRUCK. IF USED, SUPPLEMENTAL WATERING FREQUENCIES WOULD MIMIC NATURAL RAINFALL CYCLES.

**WATER CONSERVATION STATEMENT:**

IN RECOGNITION OF WATER AS A LIMITED RESOURCE IN SOUTHERN CALIFORNIA, THE FOLLOWING MEASURES WILL BE UNDERTAKEN TO REDUCE THIS PROJECT'S DEMAND ON THE CITY OF SAN DIEGO'S AVAILABLE WATER SUPPLY: THE IRRIGATION SYSTEM WILL BE AUTOMATIC AND WILL INCORPORATE LOW VOLUME SPRAY EMITTERS AND CONVENTIONAL LOW ANGLE SPRAY HEADS. DRIP IRRIGATION SYSTEMS MAY BE EMPLOYED WHERE CONSIDERED TO BE EFFECTIVE AND FEASIBLE. IRRIGATION VALVES SHALL BE SEGREGATED TO ALLOW FOR THE SYSTEM OPERATION IN RESPONSE TO ORIENTATION AND EXPOSURE. TURF WILL BE RESTRICTED TO HIGHLY VISIBLE STREET FRONT AREAS AND/OR AREAS WHICH MAY RECEIVE SIGNIFICANT AMOUNTS OF USE AND ENJOYMENT BY THE GUESTS AND RESIDENTS. THE SPECIFIED TURF WILL HAVE RELATIVELY LOW WATER AND MAINTENANCE REQUIREMENTS. PLANT MATERIAL WILL BE SPECIFIED IN CONSIDERATION OF NORTH, SOUTH, EAST, AND WEST EXPOSURES. SOIL WILL BE AMENDED AND PREPARED TO PROVIDE HEALTHY PLANT GROWTH AND COVERAGE AND TO PROVIDE FOR MAXIMUM MOISTURE RETENTION AND PERCOLATION. PLANTER BEDS WILL BE MULCHED TO RETAIN SOIL MOISTURE AND REDUCE EVAPOTRANSPIRATION FROM THE ROOT ZONES. AN IRRIGATION SYSTEM SHALL BE PROVIDED AS REQUIRED FOR THE PROPER IRRIGATION, DEVELOPMENT AND MAINTENANCE OF THE VEGETATION. THE DESIGN OF THE SYSTEM SHALL PROVIDE ADEQUATE SUPPORT OF THE VEGETATION SELECTED. AN IRRIGATION SYSTEM SHALL BE PROVIDED AS REQUIRED FOR THE PROPER IRRIGATION, DEVELOPMENT AND MAINTENANCE OF THE VEGETATION. THE DESIGN OF THE SYSTEM SHALL PROVIDE ADEQUATE SUPPORT OF THE VEGETATION SELECTED. THE ESTIMATED TOTAL WATER USE (ETWU) OF THE IRRIGATION SYSTEM WILL BE DESIGNED TO WORK WITHIN THE MAXIMUM APPLIED WATER ALLOWANCE (MAWA) FOR THE DEVELOPMENT. A FULL LANDSCAPE DOCUMENT PACKAGE, PER THE LANDSCAPE WATER CONSERVATION ORDINANCE WILL BE REQUIRED TO BE SUBMITTED AND APPROVED PRIOR TO ISSUANCE OF THE BUILDING PERMIT.

**GENERAL NOTE:**

ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE STANDARDS OF THE CITY-WIDE LANDSCAPE REGULATIONS AND THE LANDSCAPE TECHNICAL MANUAL AND ALL OTHER LANDSCAPE RELATED CITY AND REGIONAL STANDARDS.

**RAIN SENSOR SHUTOFF DEVICE NOTE:**

RAIN DEVICE AND A MOISTURE SENSING DEVICE THAT REGULATES THE IRRIGATION ALL PROPOSED IRRIGATION SYSTEMS WILL USE AN APPROVED RAIN SENSOR SHUTOFF SYSTEM FOR ALL LAWN AREAS.

**CONTROLLER AND TWO-WIRE DECODER NOTES:**

1. INSTALLING OR MAINTAINING CONTRACTOR SHALL BE RESPONSIBLE FOR REGISTERING AND DOWNLOADING RAIN BIRD IQ CLOUD SOFTWARE PROGRAM TO MANAGE IRRIGATION CONTROLLERS VIA THE INTERNET/WEB INTERFACE. THE IQ SOFTWARE SHALL BE ACCESSIBLE AT HTTPS://IQ4.RAINBIRD.COM/REGISTRATION/#/EULA/EN

2. RAIN BIRD TWO WIRE CONTROLLER. CONTRACTOR SHALL CONFIRM QUANTITIES AND PROVIDE ALL DECODERS INCLUDING ONE FOR EACH CONTROL VALVE (#IVMDEC OR IVM SERIES COMBINATION VALVE/DC LATCHING SOLENOID/DECODER), MASTER VALVE (IVMDEC OR IVM SERIES COMBINATION VALVE/DC LATCHING SOLENOID/DECODER), AND FLOW SENSOR (#IVMSDEC). CONTRACTOR SHALL CONFIRM QUANTITIES AND PROVIDE ONE SURGE PROTECTION (#IVMSP) AND GROUND ROD AT ONE EVERY 15TH VALVE OR ONE PER 500', WHICHEVER IS THE LEAST IN DISTANCE, OF TWO WIRE CABLE AND ENDS OF ALL TERMINAL RUNS PER MANUFACTURER RECOMMENDATIONS. ALL DECODERS SHALL BE PROVIDED WITH THE MANUFACTURER APPROVED WIRE CONNECTORS. ALL GROUND ROD CONNECTIONS TO #IVMSP SURGE DECODERS SHALL BE COMPLETED PRIOR TO CERTIFICATION.

3. TWO-WIRE CABLE AND DECODER NOTE:

CONTRACTOR SHALL PROVIDE PAIGE #P7072D MAXI-CABLE AND TWO WIRE DECODERS MODEL #IVMDEC FOR NON-RAIN BIRD VALVES, #IVMSL FOR RAIN BIRD VALVES, OR RAIN BIRD IVM SERIES VALVES. ALL NON-RAIN BIRD VALVES OR MASTER VALVES SHALL REQUIRE DC LATCHING SOLENOIDS SPECIFIC TO THE MANUFACTURER'S SERIES VALVES.

4. CONTRACTOR SHALL ALSO COORDINATE A PRE-CONSTRUCTION MEETING WITH IMPERIAL TECHNICAL SERVICES TO REVIEW ALL COMPONENTS OF TWO WIRE CONTROLLER SYSTEM. THIS SHALL COMPLETED PRIOR TO INSTALLING ANY CONTROLS EQUIPMENT INCLUDING TWO WIRE PATH. A WRITTEN CONFIRMATION SHALL BE PROVIDED TO OWNER'S REPRESENTATION.

Agency Approval

IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

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2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **9216-654**
PTN No.: **64725-585**
**Facilities Management**

Stamps

LICENSED LANDSCAPE ARCHITECT
Akiko Ishii Lic. #4894
Signature
EXPIRATION DATE 04/30/2026
STATE OF CALIFORNIA

Architect

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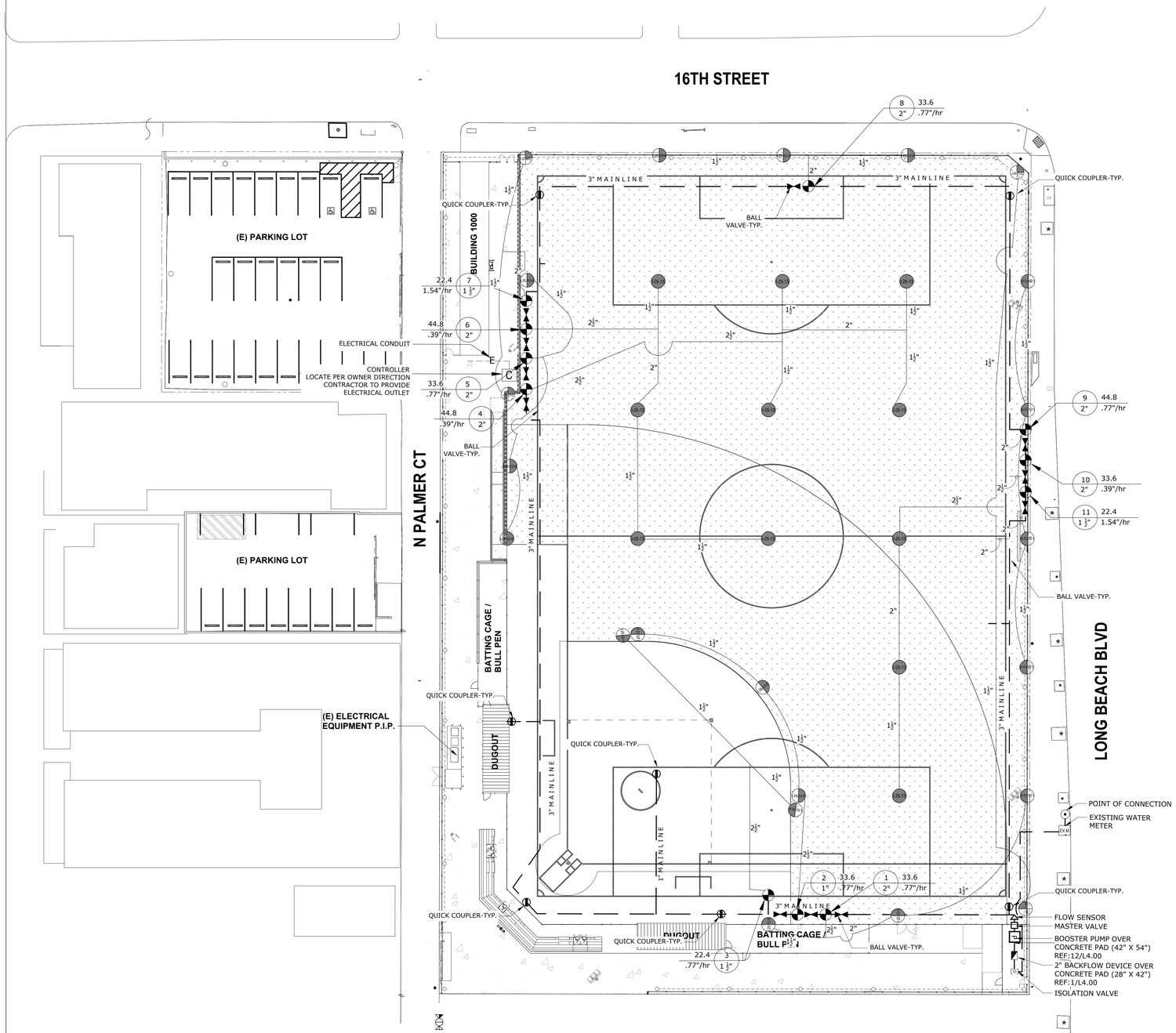
IRRIGATION NOTES

Sheet No.

L3.00




## IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER | MODEL NO./MANUFACTURER | PSI | RADIUS | GPM |
|---|---|---|---|---|---|
| | HUNTER | I-25-13 LIGHT BLUE STANDARD F & H & Q | 50 | 53' | 11.2 |
| | NIBCO | T-580 BALL VALVE OR APPROVED EQUAL | | | |
| | APPROVED | MAIN LINE -18" MIN. COVER (TO BE SCHEDULE 40 PVC, SEE SPECIFICATION FOR SCHEDULE 80 PVC) | | | |
| | APPROVED | SCHEDULE 40 PVC LATERAL LINE- MIN 12" COVER (1/2" DIA. PIPE TO BE CLASS 315) | | | |
| C | RAIN BIRD (IMPERIAL TECHNICAL SERVICE) | ICA6-RB8-60/SP/IQ-ETH/RSE/IFS-200C/(14)IVMDEC/(14)SUDCL/IVMSDEC/(4)IVMSP/(4)GRD-K - RAIN BIRD 2-WIRE CONTROLLER, PROVIDE UNDEERGROUND CONDUIT FOR FUTURE ETHERNET WIRE CONNECTION. 16" X 16" TOP ENTRY CONTROLLER ASSEMBLY (ICA6 SERIES) WITH RAIN SENSOR | | | |
| | APPROVED | SCH40 PVC SLEEVE SIZE AS SHOWN ON PLAN | | | |
| 1 45.0 1" .67"/HR | | VALVE STATION NUMBER<br>SYSTEM GALLONAGE<br>PRECIPITATION RATE<br>VALVE SIZE | | | |
| | SUPERIOR | MODEL 950-DW OR APPROVED EQUAL (SIZE AS NOTED ON PLAN) WITH PRS-MOD (PRESSURE REGULATOR) | | | |
| | APPROVED | MASTER VALVE : 2"SUPERIOR MODEL 3200 OR APPROVED EQUAL, NORMALLY CLOSED | | | |
| | APPROVED | FLOW SENSOR | | | |
| | RAINBIRD | ¾" 33DNP QUICK COUPLING VALVE PROVIDE WASTE WATER CAUTION STICKERS | | | |
| | APPROVED | BRASS ISOLATION VALVE | | | |
| M | APPROVED | 2" WATER METER VERIFY LOCATION ON SITE | | | |
| E | APPROVED | 2" ELECTRICAL CONDUIT FOR WIRES FROM CONTROLLER TO VALVES | | | |
| | FEBCO | LF #825Y RPZ PRESSURE BACKFLOW PREVENTER(WITH STRONG BOX ENCLOSURE SBBC-30CR INCLUDE LOCK & KEY) OR APPROVED EQUAL. SBBC-30CR : 30" W X 18" D X 28" H, ANCHORED TO CONCRETE PAD | | | |
| P | BARRETT ENGINEERED PUMP | MODEL # : IBGA6-3-2-2 /PACT, 56 GPM, SYSTEM DESIGN P = 80 PSI, MIN. SUCITON P = 60 PSI<br>3 HP, 208-230 OR 460 VAC : SEE SPECS. | | | |

NOTE 1: 4" FOR GRASS

DESIGN PRESSURE: 45 PSI

N

0 5 10 20
SCALE: 1"=10'-0"

G F E D C B A

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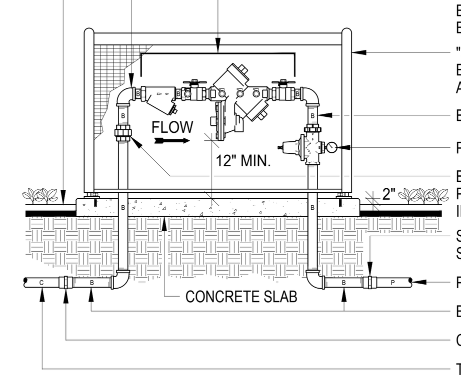
Sheet Title

IRRIGATION PLAN & SCHEDULE

Sheet No.

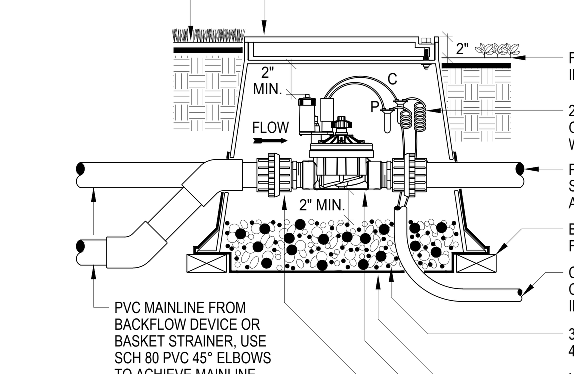
L3.01




NOTE:
INSTALL THE PRESSURE REGULATOR ONLY IF IT IS SPECIFIED IN THE LEGEND.
BACKFLOW DEVICE OUTLET SHALL BE INSTALLED A MINIMUM OF 12" ABOVE FINISHED GRADE.
ASSEMBLY PIPING AND FITTINGS SHALL BE SIZED EQUAL TO THE SIZE OF THE BACKFLOW PREVENTION DEVICE
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
CONCRETE SLAB SHALL BE A MINIMUM OF 4" THICK, 18" WIDE AND EXTEND AT LEAST 8" PAST THE BACKFLOW ASSEMBLY PIPING, OR BE THE SIZE REQUIRED BY THE ENCLOSURE MANUFACTURER.
NO THREADED CONNECTIONS SHALL BE MADE UNDER THE CONCRETE SLAB.

SECTION VIEW

## 1 BACK FLOW DEVICE
NTS — P-PO-09

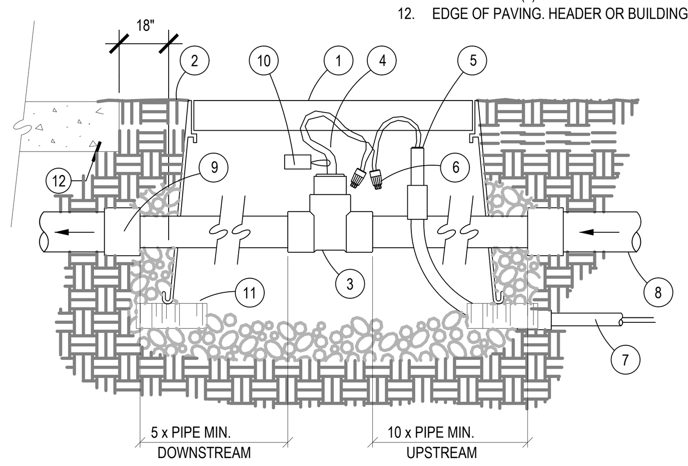



NOTE:
INSTALL A RAIN BIRD FD-101-TURF SINGLE STATION DECODER WITH THE MASTER VALVE.
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

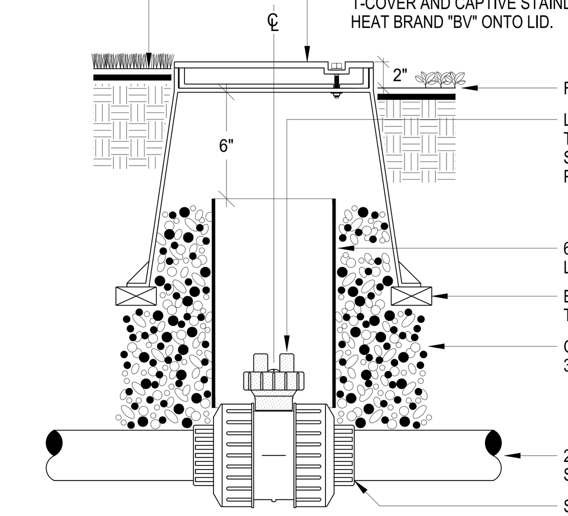
SECTION VIEW

## 2 MASTER CONTROL VALVE
NTS — P-PO-10

1. RECTANGULAR PLASTIC VALVE BOX
2. FINISH GRADE.
3. FLOW SENSOR.
4. FLOW SENSOR CABLE P-7162D
5. CONDUIT BUSHING.
6. WATERPROOF DRY SPLICE CONNECTOR.
7. 1-1/4" ELECTRICAL CONDUIT AND SWEEP ELBOW.
8. IRRIGATION MAINLINE FROM MASTER VALVE.
9. MAINLINE TO THE RCV'S
10. CHRISTY'S TAG #ID-MAX-P2-RC1P2.
11. QUANTITY OF (4) -BRICK FOR STABILIZATION
12. EDGE OF PAVING. HEADER OR BUILDING WALL.



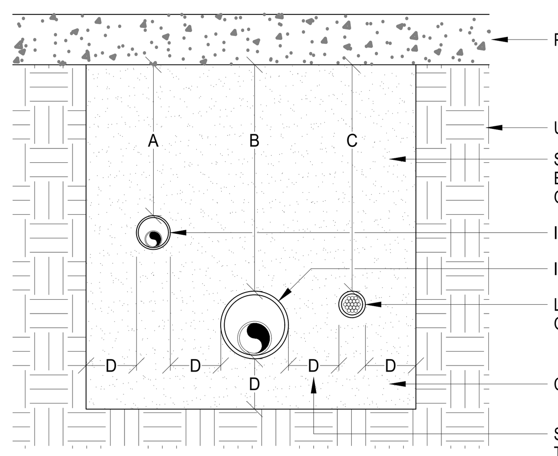

## 3 FLOW SENSOR
6" = 1'-0" — P-PO-36




NOTE:
PROVIDE ONE (1) 30" LONG STEEL "VALVE KEY" FOR EACH TEN (10) BALL VALVES INSTALLED ON THE PROJECT.

SECTION VIEW

## 4 BALL VALVE
NTS — P-PO-12

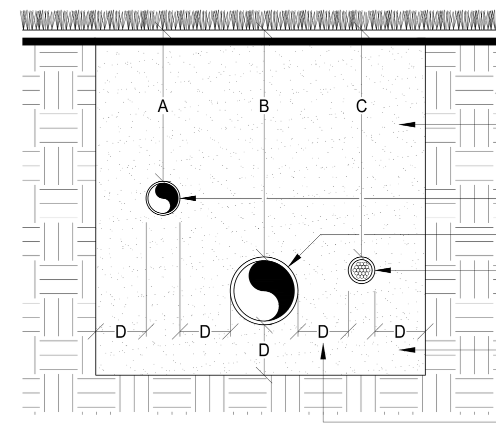



| PIPE SIZES | A | B | C | D |
|---|---|---|---|---|
| UNDER PEDESTRIAN PAVING | 12" | 24" | 24" | 4" |
| UNDER VEHICULAR PAVING | 24" | 36" | 36" | 6" |

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.
SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.
SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

SECTION VIEW

## 5 SLEEVE INSTALLATION
NTS — P-PO-20

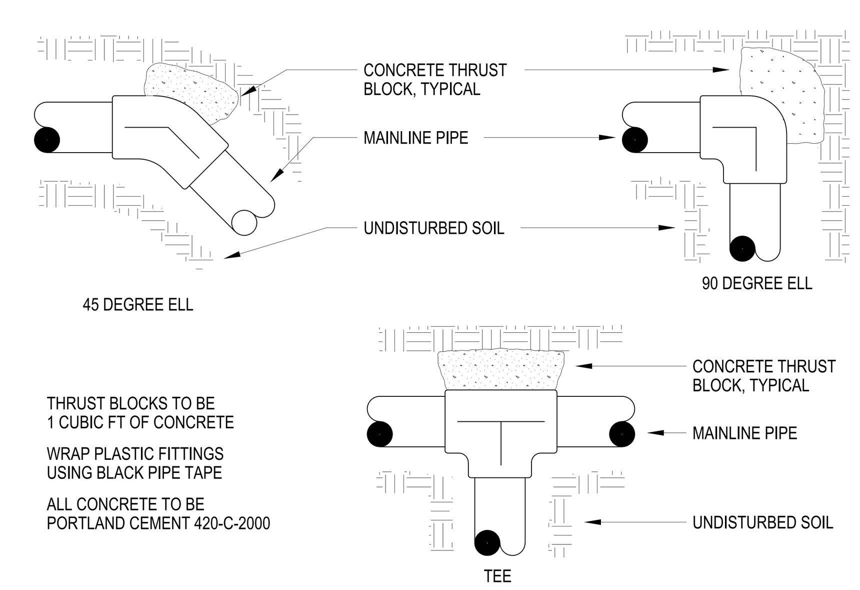



| PIPE SIZES | A | B | C | D |
|---|---|---|---|---|
| SIZES 1" TO 2 1/2" | 12" | 18" | 18" | 4" |
| SIZES 3" AND 4" | 18" | 24" | 24" | 4" |
| SIZES 6" AND LARGER | | 30" | 24" | 6" |

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

SECTION VIEW

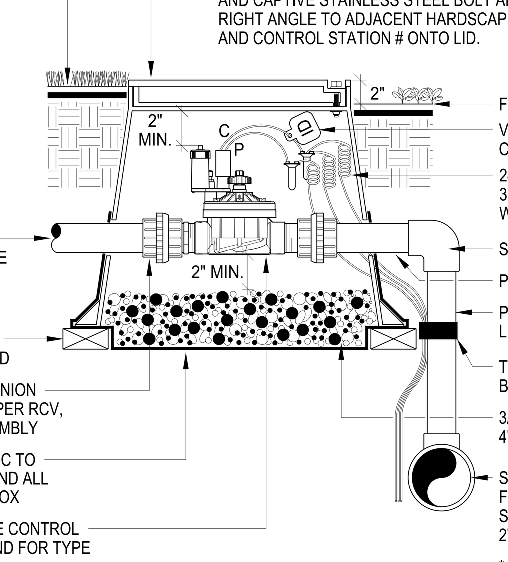
## 6 PIPE INSTALLATION
NTS — P-PO-19




THRUST BLOCKS TO BE 1 CUBIC FT OF CONCRETE
WRAP PLASTIC FITTINGS USING BLACK PIPE TAPE
ALL CONCRETE TO BE PORTLAND CEMENT 420-C-2000

PLAN VIEW

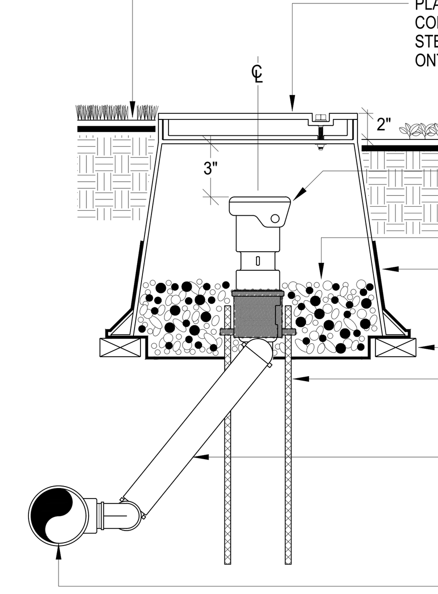
## 7 THRUST BLOCKING
NTS — P-PO-03




NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.
USE STANDARD BOX OPENINGS FOR ALL PIPING INTO THE BOX, DO NOT CUT THE BOX.

SECTION VIEW

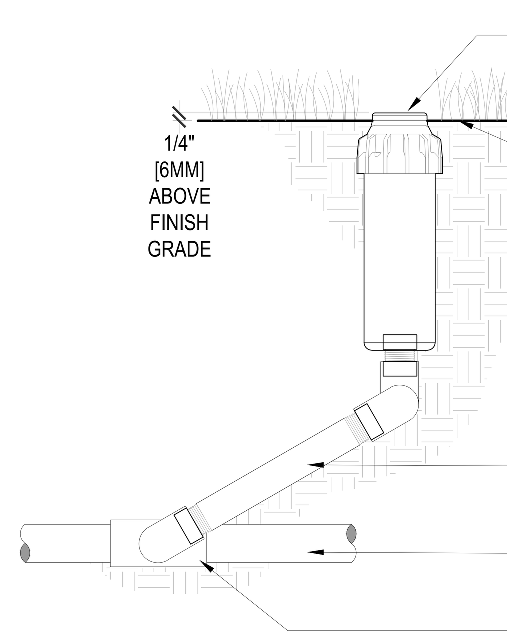
## 8 REMOTE CONTROL VALVE
NTS — P-PO-14



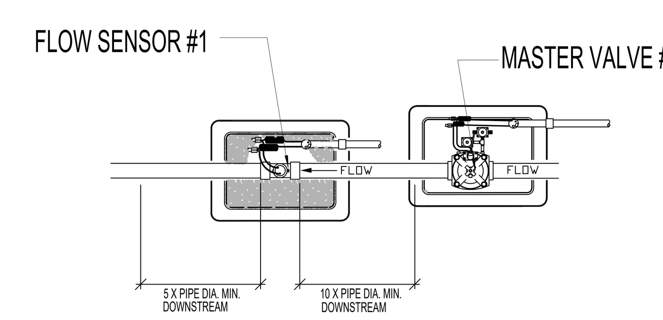

NOTE:
WHEN QCV IS LOCATED ON A MANIFOLD, USE A SCH. 80 SxT 90° ELBOW IN PLACE OF THE TEE FITTING. SIZE THE ELBOW AS MANIFOLD MAINLINE SIZE X 1" FIPT.
WHEN USING A 3/4" QUICK COUPLER VALVE, USE A LASCO G13T-212 SWING JOINT WITH A 3/4" BRASS OUTLET FOR CONNECTION TO THE QCV INLET. ALL OTHER PARTS OF SWING JOINT SHALL REMAIN 1" SIZE.
USE A NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

SECTION VIEW

## 9 QUICK COUPLER VALVE
NTS — P-PO-13

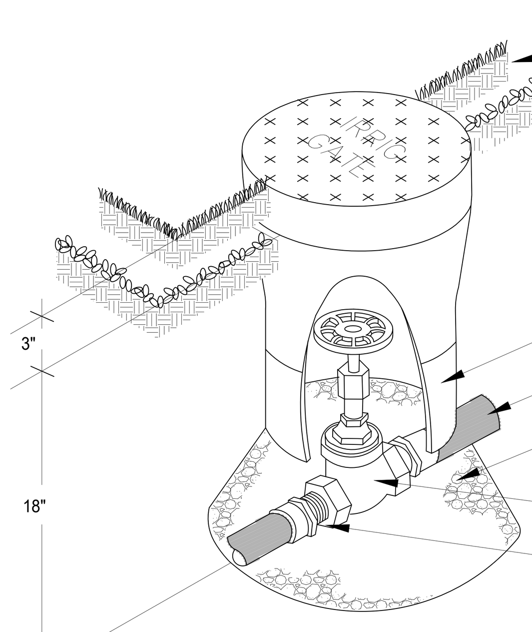



## 10 POP-UP ROTOR
3" = 1'-0" — P-PO-34

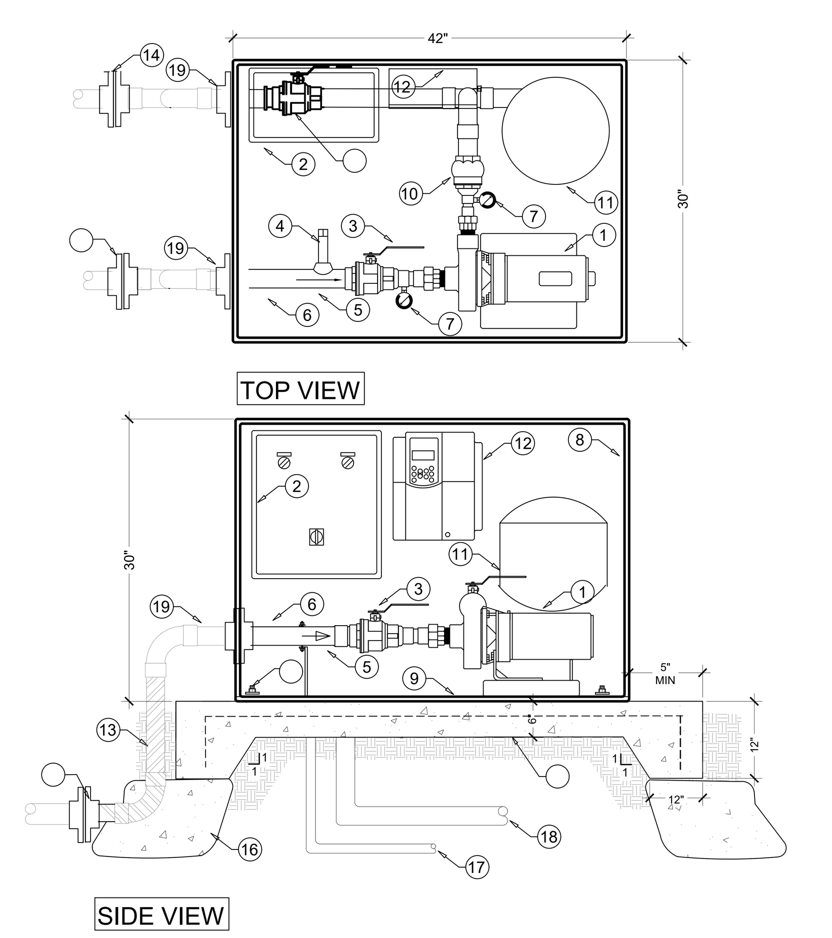



NOTES:
FLOW SENSOR CABLE TO BE PAIGE P-7162D INSTALLED IN CONDUIT.
FLOW SENSOR WIRE NOT TO EXCEED 2000 FEET.
SEPARATE CABLE MUST BE USED FOR EACH FLOW SENSOR.
MASTER VALVE WIRES TO BE DIRECT BURIAL IRRIGATION WIRE.

## 11 FLOW SENSOR & MASTER VALVE SYSTEM
1" = 1" — P-PO-37




## 13 GATE VALVE
1" = 1" — P-PO-92




KEYNOTE LEGEND

1. CLOSE-COUPLED END SUCTION CENTRIFUGAL PUMP, CAST IRON BRONZE FITTED.
2. NEMA 4X ENCLOSUED CONTROL PANEL, WITH CIRCUIT BREAKER, MAGNETIC STARTER, HOA SWITCH, AND COMPONENTS FOR AUTOMATIC BOOSTER PUMP CONTROL.
3. CAST IRON ELASTOMER LINED FULL LUG WAFER STYLE BUTTERFLY VALVE.
4. FLOW SWITCH - THERMAL DISPERSION, 150 PSI RATED.
5. 2 INCH TYPE 304 STAINLESS STEEL.
6. UNION ADAPTER.
7. PRESSURE GAUGE, 2 1/2" DIAL, LIQUID FILLED, STAINLESS STEEL CASE, 0-200 PSI.
8. MARINE GRADE ALUMINUM ENCLOSURE, HINGED TOP WTH VENTING.
9. STRUCTURAL ALUMINUM BASEPLATE.
10. DISC STYLE CHECK VALVE.
11. EPOXY COATED STEEL BLADDER STYLE STORAGE TANK.
12. VARIABLE SPEED DRIVE (VFD).
13. DOUBLE WRAP WITH 20 MIL PIPE WRAP TAPE.
14. COMPANION FLANGE CONNECTION - CONTRACTOR SUPPLIED.
15. 6" THICK CONCRETE PAD SET 2" ABOVE FINISH. GRADE. USE #5 BAR 18" OC. BOTH WAYS AT MID-DEPTH. CONCRETE MIX TO BE PER STRUCTURAL REQUIREMENTS.
16. CONCRETE THRUST BLOCK OR JOINT RESTRAINT.
17. IRRIGATION CONTROLLER SIGNAL CONDUIT.
18. MAIN POWER CONDUIT.
19. CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL INLET AND OUTLET PIPING; BRASS OR CAST IRON
20. (4) 1/2" DIA. KB-TZ2 SS 304, 2" MIN EMBEDMENT. INSTALL PER ICC-ESR 4266 TYP. EACH CORNER.

| BARRETT ENGINEERED PUMPS | SIZE | DWG NO. L.B. POLY TECHNICAL H.S. SATELLITE | REV . |
|---|---|---|---|
| | SCALE | | SHEET – IBH–LFPT–2.dwg |

## 14 BOOSTER PUMP_3HP
3/4" = 1'-0" — P-PO-108

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Agency Approval

Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | 9216-654 |
| PTN No.: | 64725-585 |

Facilities Management

Client

LICENSED LANDSCAPE ARCHITECT
Akiko Ishii Lic. #4864
Signature
EXPIRATION DATE 04/30/2026
STATE OF CALIFORNIA

Stamps

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ARCHITECT
8163 ROCHESTER AVE.
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RANCHO CUCAMONGA, CA
91730
Tel: 909-987-0909
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La Jolla Square
4250 Executive Square, Suite 101,
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T. (619) 695-0400
www.edgelandgroup.com

Consultant

POLYTECHNIC HIGH SCHOOL
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

Project

DSA #03-125644 File 19-H15

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

Issue

| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | AI |
| DATE: | 11/12/25 |

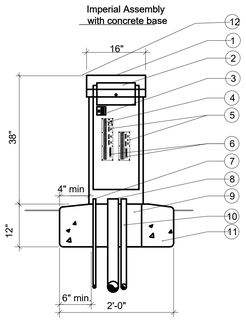
Sheet Info

IRRIGATION DETAILS

Sheet Title

L4.00

Sheet No.



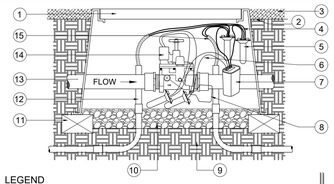

IMPERIAL TECHNICAL SERVICES

1. Imperial Assemblies 16" top entry Controller Assembly NEMA 3R
   rainproof enclosure (UL listed)
2. Controller
3. Power switch/GFI receptacle
4. Master valve relay assembly or pump start relay assembly (optional)
5. Terminal Board
6. Remote Receiver Connector (optional)
7. 1" PVC conduit for 120 VAC from metered power supply
8. PVC conduit for control wires, size as required
9. Fill voids with 3/8" Pea Gravel
10. 1" PVC conduit for flow sensor cable PAIGE CABLE P - 7162 - D
    (if applicable)
11. Poured concrete base
12. Rain Sensor - Enclosure Mounted

* Note all grounding requirements for controller assemblies shall conform to local electrical codes.

## 1 16" X 16" TOP ENTRY CONTROLLER ASSEMBLY (ICA6 SERIES)

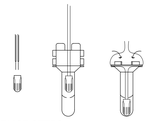
1" = 1'-0" P-PO-104




IMPERIAL TECHNICAL SERVICES

LEGEND

1. VALVE BOX. REFER TO SPECS. SIZE AS REQUIRED.
2. FINISH GRADE
3. MULCH. REFER TO SPECS.
4. TWO-WIRE CABLE FROM CONTROLLER, TO NEXT VALVE AND FEEDING DECODER.
5. 3M DBRY SPLICE KIT WIRE CONNECTOR: (1 OF 2)
6. WIRES FROM DECODER TO THE VALVE SOLENOID.
7. TWO-WIRE DECODER
8. I.D. TAG WITH STATION NUMBER PRINTED ON IT (CHRISTY'S #ID-STD-Y1)
9. 90% COMPACTED NATIVE
10. 12-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL OVER FILTER FABRIC
11. BRICK SUPPORT (1 OF 4)
12. 1.25" MIN SCH. 40 ELECTRICAL CONDUIT. (IF REQ.) ADJUST SIZE AS REQUIRED.
13. MAINLINE INTO VALVE. REFER TO PLAN.
14. REMOTE CONTROL VALVE. PER PLAN.
15. TWO-WIRE CABLE (PER MANUFACTURER). LOOP 24" MIN. EXTRA WIRE AROUND PERIMETER OF BOX.



WIRE SPLICE STEPS

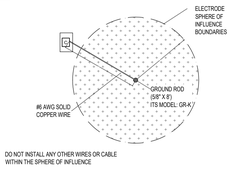
1. STRIP WIRES 1/2" TO 5/8". USING LINEMANS PLIERS OR OTHER STYLE TOOL, TWIST ENDS TOGETHER MIN 3 TIMES. INSERT INTO SCOTCHLOK ELECTRICAL CONNECTOR AND ROTATE CLOCKWISE UNTIL ADDITIONAL FORCE IS REQUIRED.
2. INSERT THE SPLICE INTO THE GEL-FILLED INSULATOR TUBE. PUSH PAST THE LOCKING FINGERS TO HOLD THE SCOTHLOK CONNECTOR IN PLACE.
3. POSITION WIRE CHANNELS AND SNAP INSULATOR TUBE COVER CLOSED.

* WIRE CONNECTORS INCLDED WITH DECODERS*

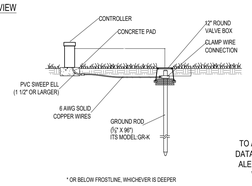
## 2 2-WIRE DECODER

1" = 1'-0" P-PO-105

TOP VIEW




SIDE VIEW




IMPERIAL TECHNICAL SERVICES

NOTES:

1. CONTRACTOR SHALL CONSULT SITE UTILITY AS-BUILT(S) AND BECOME FAMILIAR WITH ALL UNDERGROUND ITEMS WITHIN PROJECT SCOPE.
2. FOR HIGH LIGHTNING PRONE AREAS USE BOTH GROUND ROD AND GROUND PLATE.
3. ALL ITEMS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
4. ALL INSTALLATIONS SHALL MEET MINIMUM REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND SOUND PRACTICES OF THE INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS (IEEE) TO ENSURE PERSONNEL SAFETY AND EQUIPMENT RELIABILITY.
5. EARTH RESISTANCE SHALL BE MEASURED AND RECORDED AFTER INSTALLATION WITHIN ACCORDANCE OF LATEST REQUIREMENTS OF NFPA 780. DESIRED READINGS ARE 5 TO 10 OHMS BUT NO MORE THAN 25 OHMS.
6. FOR FURTHER REQUIREMENTS CONSULT THE ASIC GUIDELINE 100-2002 FOR EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS.

DIGALERT WARNING! 811

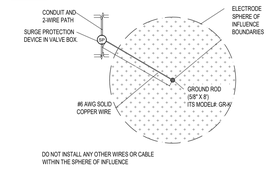
PLEASE READ BEFORE INSTALLING GROUND ROD

TO AVOID CONTACT WITH HIGH VOLTAGE POWER CABLES, GAS LINES, OR DATA CABLES, PLEASE CONTACT THE OWNER'S REPRESENTATIVE AND "DIG ALERT" TO IDENTIFY POSSIBLE HAZARDS BELOW THE SURFACE. CONTACT WITH THESE HAZARDS WILL RESULT IN SEVERE INJURY OR DEATH.

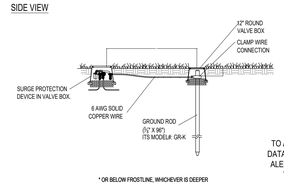
## 3 CONTROLLER GROUNDING - GROUND ROD

3/4" = 1'-0" P-PO-106

TOP VIEW




SIDE VIEW




IMPERIAL TECHNICAL SERVICES

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## 4 SURGE PROTECTOR GROUNDING - GROUND ROD

3/4" = 1'-0" P-PO-107

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **9216-654**
PTN No.: **64725-585**
**Facilities Management**

Stamps

LICENSED LANDSCAPE ARCHITECT
Alfredo Ibarra Lic. 4009
Signature
EXPIRATION DATE
04/30/2026
STATE OF CALIFORNIA

Architect

**PBK**
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RANCHO CUCAMONGA, CA
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Consultant

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**LANDSCAPE ARCHITECT EDGELAND GROUP, Inc.**

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4250 Executive Square, Suite 101,
La Jolla, California 92037
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www.edgelandgroup.com

Project

POLYTECHNIC HIGH SCHOOL
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

Sheet Info

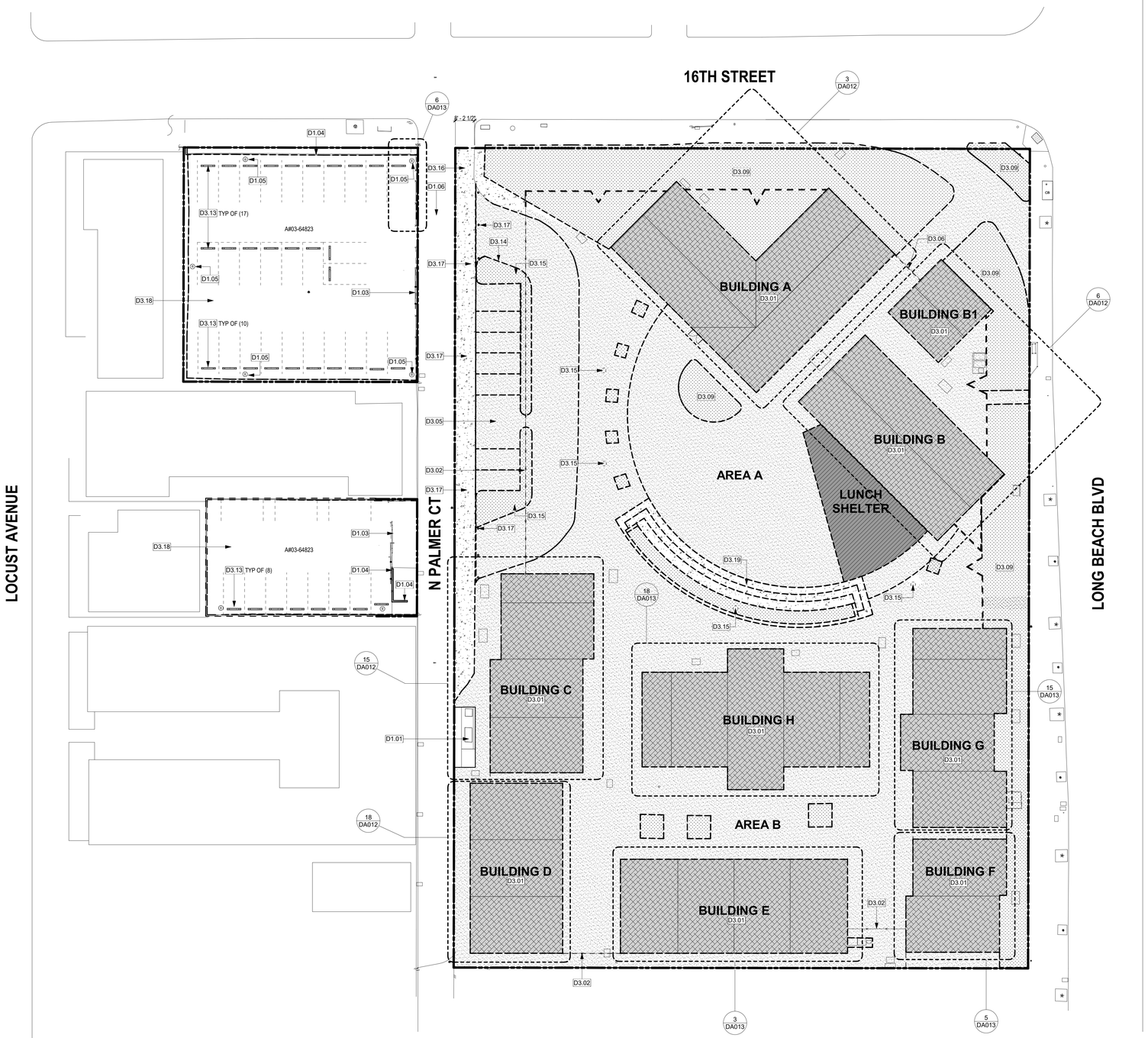
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | AI |
| DATE: | 11/12/25 |

Sheet Title

IRRIGATION DETAILS

Sheet No.

L4.01




1 DEMOLITION SITE PLAN
1" = 20'-0"

## KEYNOTES

| | |
|---|---|
| D1.01 | EXISTING ELECTRICAL EQUIPMENT & PAD TO REMAIN, PROTECT IN PLACE |
| D1.03 | EXISTING CHAINLINK FENCE AND ROLLING GATE TO REMAIN, PROTECT IN PLACE |
| D1.04 | EXISTING CMU WALL TO REMAIN, PROTECT IN PLACE |
| D1.05 | EXISTING CONCRETE BASE & LIGHTING POLE TO REMAIN, PROTECT IN PLACE |
| D1.06 | EXISTING CONCRETE TO REMAIN, PROTECT IN PLACE |
| D3.01 | DEMOLISH EXISTING BUILDING ON SITE & ALL ASSOCIATED FOOTINGS |
| D3.02 | DEMOLISH (E) CHAINLINK FENCING, GATES, POSTS, AND FOOTINGS, U.N.O |
| D3.05 | DEMOLISH (E) ASPHALT AND SUBGRADE |
| D3.06 | DEMOLISH EXISTING TUBE STEEL GATES / FENCE AND ALL ASSOCIATED FOOTINGS |
| D3.09 | DEMOLISH EXISTING LANDSCAPE, IRRIGATION DEVICES TO BE SALVAGED. |
| D3.13 | EXISTING CONCRETE WHEEL STOP TO BE DEMOLISHED |
| D3.14 | EXISTING CONCRETE CURB TO DE DEMOLISHED |
| D3.15 | EXISTING CONCRETE BASE, LIGHTING POLE, & ASSOCIATED FOOTINGS TO BE DEMOLISHED IN IT'S ENTIRETY |
| D3.16 | EXISTING CONCRETE TO BE SAWCUT AND DEMOLISH |
| D3.17 | EXISTING BOLLARD AND FOOTING TO BE DEMOLISHED IN IT'S ENTIRETY |
| D3.18 | GRIND EXISTING ASPHALT PAVING. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION |
| D3.19 | EXISTING CONCRETE STEPS AND ASSOCIATED FOOTINGS TO BE DEMOLISHED IN IT'S ENTIRETY |

5

## SITE PLAN LEGEND

- PROPERTY LINE / AREA OF WORK
- EXISTING PERIMETER WALLS / FENCES TO BE DEMOLISHED
- EXISTING LANDSCAPE TO BE DEMOLISHED
- EXISTING SHADING STRUCTURE TO BE DEMOLISHED A# 03-64823
- EXISTING ASPHALT PAVEMENT TO BE DEMOLISHED
- EXISTING BUILDING (A# 03-64823) AND ASSOCIATED FOOTINGS TO BE DEMOLISHED IN ITS ENTIRETY
- EXISTING CONCRETE TO BE DEMOLISHED
- (E) HARDSCAPE TO REMAIN

4

## GENERAL DEMOLITION NOTES:

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
3. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
6. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
7. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCTION TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
8. CONTRACTOR SHALL REMOVE DEBRIS REGULARLY AS NECESSARY TO ELIMINATE INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
9. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
10. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
11. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
12. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING. ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING.
13. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES.
14. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
15. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
16. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT. CONTRACTOR TO REVIEW DEMOLITION FLOOR PLANS FOR ITEMS TO BE SALVAGED.
17. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
18. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
19. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

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Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | 9216-654 |
| PTN No.: | 64725-585 |

**Facilities Management**

Stamps

LICENSED ARCHITECT
Hong Tao
No. C-31162
REN. 10-31-2027
STATE OF CALIFORNIA

Architect

**PBK**
**ARCHITECT**
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RANCHO CUCAMONGA, CA
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Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

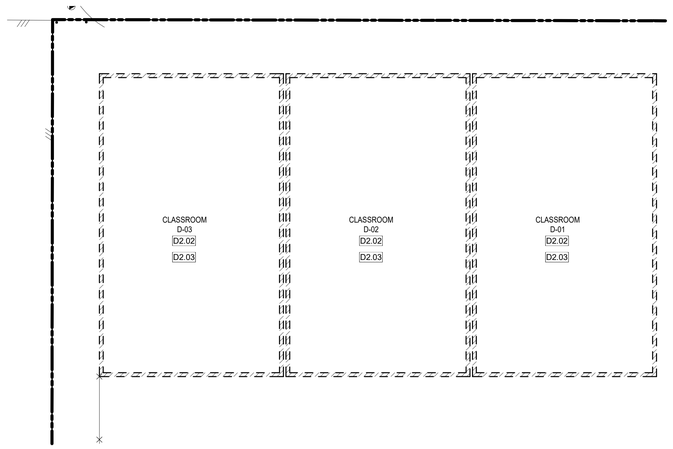
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

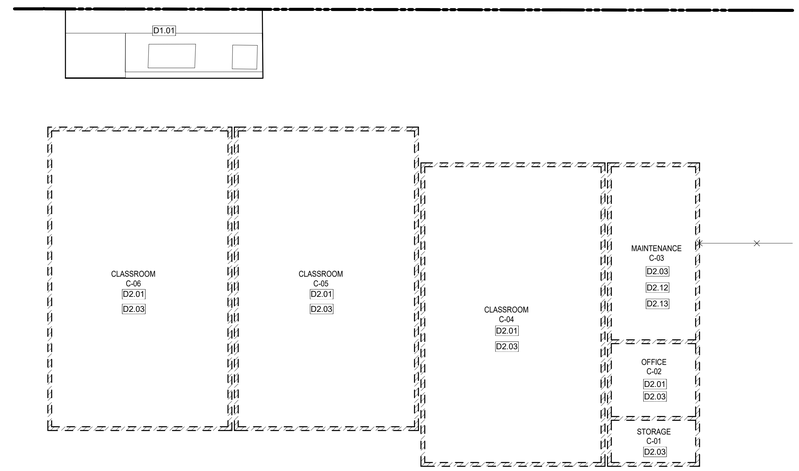
**DEMOLITION SITE PLAN**

Sheet No.

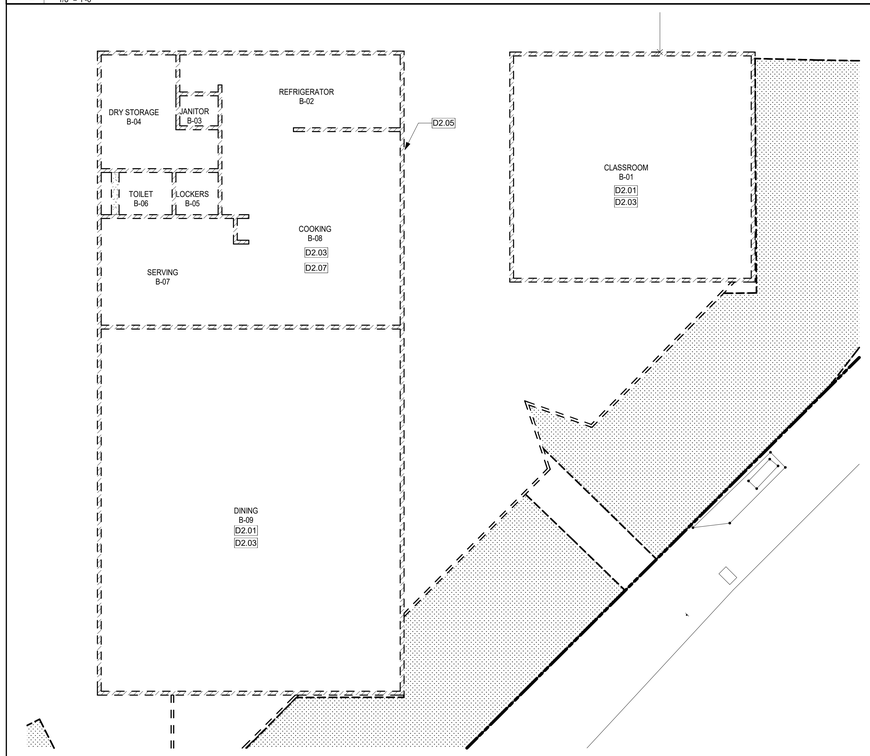
**DA010**



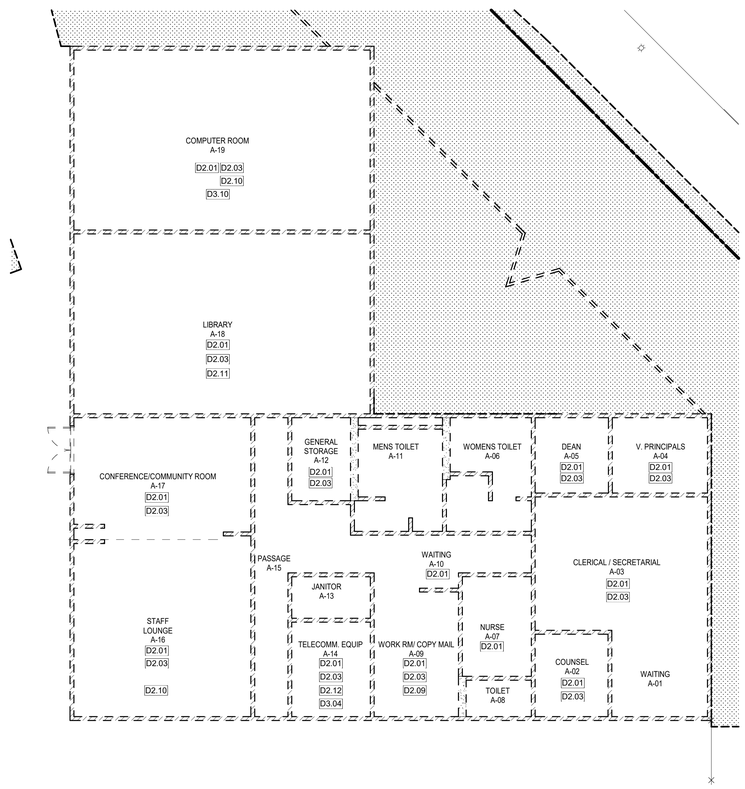

**18** BLDG D DEMO FLOOR PLAN
1/8" = 1'-0"




**15** BLDG C DEMO FLOOR PLAN
1/8" = 1'-0"




**6** BLDG B & B1 DEMO FLOOR PLAN
1/8" = 1'-0"




**3** BLDG A DEMO FLOOR PLAN
1/8" = 1'-0"

## KEYNOTES

D1.01 EXISTING ELECTRICAL EQUIPMENT & PAD TO REMAIN, PROTECT IN PLACE
D2.01 EXISTING IDF CABINET, CLOCK / SPEAKER COMBO, TV, NEW PHONES & THERMOSTATS TO BE SALVAGED AND RETURNED TO DISTRICT
D2.02 EXISTING FUME HOOD TO BE SALVAGED AND RETURNED TO DISTRICT
D2.03 EXISTING MOVABLE FURNITURE TO BE REMOVED BY DISTRICT'S MOVING TEAM
D2.05 EXISTING BIKE RACKS TO BE SALVAGED AN RETURNED TO DISTRICT
D2.07 EXISTING KITCHEN EQUIPMENT TO BE SALVAGED AND RETURNED TO DISTRICT
D2.09 EXISTING DEFIBRILLATOR TO BE SALVAGED AND RETURNED TO DISTRICT
D2.10 EXISTING WIRELESS ACCESS POINTS (WAP)AND ACCESS POINT TO BE SALVAGED AND RETURNED TO DISTRICT
D2.11 EXISTING SECURITY DETECTORS TO BE SALVAGED AND RETURNED TO DISTRICT
D2.12 EXISTING INTERCOM DEVICE TO BE SALVAGED AND RETURNED TO DISTRICT
D2.13 EXISTING EXTERIOR LIGHTING ELECTRICAL PANEL TO BE SALVAGED
D3.04 EXISTING LARGE STORAGE, ELECTRICAL PANEL AND POWER SUPPLY EXPANDER TO BE DEMOLISHED
D3.10 EXISTING PROJECTION SCREENS TO BE DEMOLISHED

5

## DEMO LEGEND

WALL TO BE DEMOLISHED

4

## GENERAL DEMOLITION NOTES:

1. THE DEMOLITION PLAN OUTLINES SOME OF THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMO SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMERCIAL DEMOLITION ACTIVITIES. CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR WILL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
3. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
4. CONTRACTOR WILL BE REQUIRED TO REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND/OR PARKING AREAS DISTURBED BY DEMOLITION.
5. CONTRACTOR WILL BE REQUIRED TO REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
6. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
7. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE. TO MATCH EXISTING/ADJACENT CONSTRUCTION.
8. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES.
9. CONTRACTOR SHALL REMOVE DEBRIS REGULARLY AS NECESSARY TO ELIMINATE INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
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11. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD CONDITION.
12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
13. MAINTAIN THE INTEGRITY OF ALL EXISTING RATED WALLS, FIRE SEAL ANY PENETRATIONS WITH U.L. APPROVED ASSEMBLY.
14. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
15. PROTECT EXISTING SITE IMPROVEMENTS AND LANDSCAPING TO REMAIN. INCLUDING BUT NOT LIMITED TO EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
16. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES AS NECESSARY TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AND AS REQUIRED BY GOVERNING AUTHORITIES.
17. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
18. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
19. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT WITH ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
20. CONTRACTOR TO RE-LOCATE UTILITIES & EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL & PLUMBING REQUIREMENTS FOR NEW RENOVATION WORK.
21. REFER TO DEMOLITION PLUMBING PLANS FOR EXTENT OF CONCRETE SLAB TO BE REMOVED AND REPLACED FOR UNDER FLOOR PIPING INSTALLATION.
22. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
23. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.
24. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEP SYSTEMS BACK TO PANEL OR MECHANICAL ROOM OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEP DRAWINGS
25. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND/OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBS THE EXTENT OF ALL DEMOLITION WORK.
26. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
27. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE SURFACE TO RECEIVE NEW FLOORING.
28. NOTIFY ARCHITECT & OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
29. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
30. CONTRACTOR TO PROVIDE ALL NECESSARY SHORING FOR PROTECTION OF EXISTING STRUCTURE AND FOUNDATION TO REMAIN.
31. ALL DASHED LINES ARE DEMOLITION LINES UNLESS NOTED OTHERWISE.

3

1

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
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Client

long beach unified school district

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

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| LBUSD No.: | **9216-654** |
| PTN No.: | **64725-585** |

**Facilities Management**

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Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
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| | | |

Sheet Info

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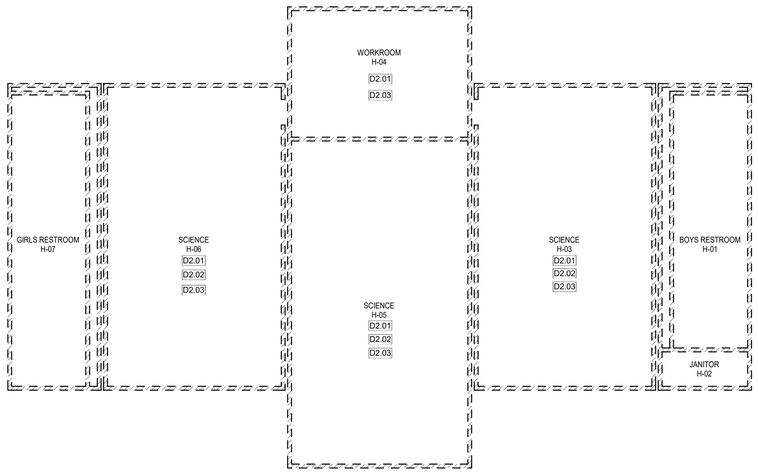
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

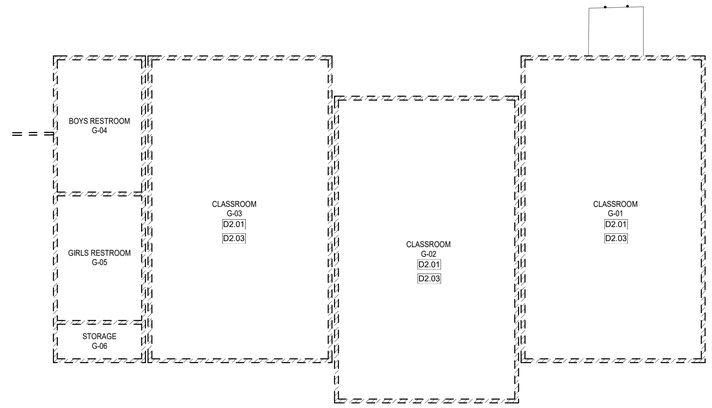
**BLDG A, B, C, & D DEMOLITION FLOOR PLAN**

Sheet No.

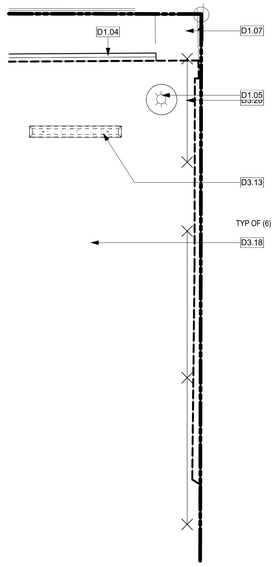
**DA012**



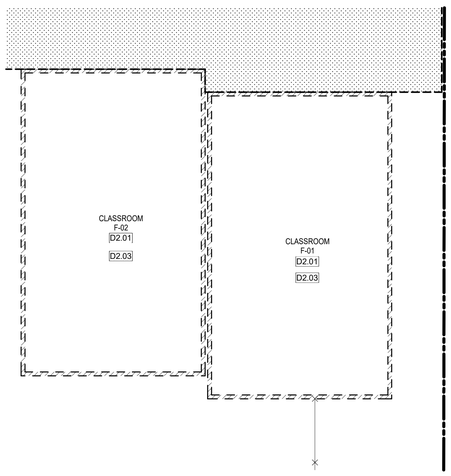

**18** BLDG H DEMO FLOOR PLAN
1/8" = 1'-0"



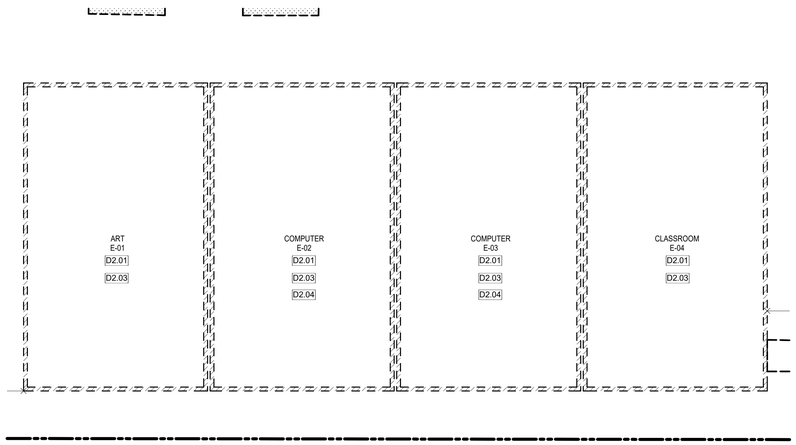

**15** BLDG G DEMO FLOOR PLAN
1/8" = 1'-0"




**6** ENLARGED DEMOLITION
1/4" = 1'-0"




**5** BLDG F DEMO FLOOR PLAN
1/8" = 1'-0"




**3** BLDG E DEMO FLOOR PLAN
1/8" = 1'-0"

## KEYNOTES

D1.04 EXISTING CMU WALL TO REMAIN, PROTECT IN PLACE
D1.05 EXISTING CONCRETE BASE & LIGHTING POLE TO REMAIN, PROTECT IN PLACE
D1.07 EXISTING CHAINLINK POST TO REMAIN, PROTECT IN PLACE
D2.01 EXISTING IDF CABINET, CLOCK / SPEAKER COMBO, TV, NEW PHONES & THERMOSTATS TO BE SALVAGED AND RETURNED TO DISTRICT
D2.02 EXISTING FUME HOOD TO BE SALVAGED AND RETURNED TO DISTRICT
D2.03 EXISTING MOVABLE FURNITURE TO BE REMOVED BY DISTRICT'S MOVING TEAM
D2.04 EXISTING COMPUTERS TO BE SALVAGED AND RETURNED TO DISTRICT
D3.13 EXISTING CONCRETE WHEEL STOP TO BE DEMOLISHED
D3.18 GRIND EXISTING ASPHALT PAVING. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
D3.20 PORTION OF EXISTING CHAINLINK FABRIC TO BE DEMOLISH

5

## DEMO LEGEND

WALL TO BE DEMOLISHED

4

## GENERAL DEMOLITION NOTES:

1. THE DEMOLITION PLAN OUTLINES SOME OF THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMO SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMERCIAL DEMOLITION ACTIVITIES. CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR WILL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
3. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
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5. CONTRACTOR WILL BE REQUIRED TO REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
6. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
7. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE. TO MATCH EXISTING/ADJACENT CONSTRUCTION.
8. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES.
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10. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND/OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST.)
11. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD CONDITION.
12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
13. MAINTAIN THE INTEGRITY OF ALL EXISTING RATED WALLS, FIRE SEAL ANY PENETRATIONS WITH U.L. APPROVED ASSEMBLY.
14. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
15. PROTECT EXISTING SITE IMPROVEMENTS AND LANDSCAPING TO REMAIN. INCLUDING BUT NOT LIMITED TO EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
16. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES AS NECESSARY TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AND AS REQUIRED BY GOVERNING AUTHORITIES.
17. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
18. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
19. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT WITH ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
20. CONTRACTOR TO RE-LOCATE UTILITIES & EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL & PLUMBING REQUIREMENTS FOR NEW RENOVATION WORK.
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22. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
23. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.
24. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEP SYSTEMS BACK TO PANEL OR MECHANICAL ROOM OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION, REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEP DRAWINGS.
25. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND/OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBS THE EXTENT OF ALL DEMOLITION WORK.
26. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
27. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE SURFACE TO RECEIVE NEW FLOORING.
28. NOTIFY ARCHITECT & OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
29. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
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31. ALL DASHED LINES ARE DEMOLITION LINES UNLESS NOTED OTHERWISE.

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Agency Approval

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Client

long beach unified school district

**Long Beach Unified School District**
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Long Beach, CA 90810

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| LBUSD No.: | 9216-654 |
| PTN No.: | 64725-585 |

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DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

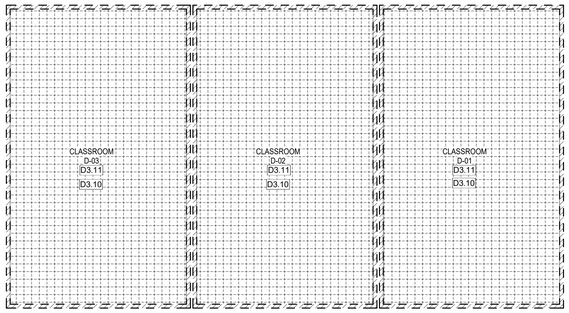
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

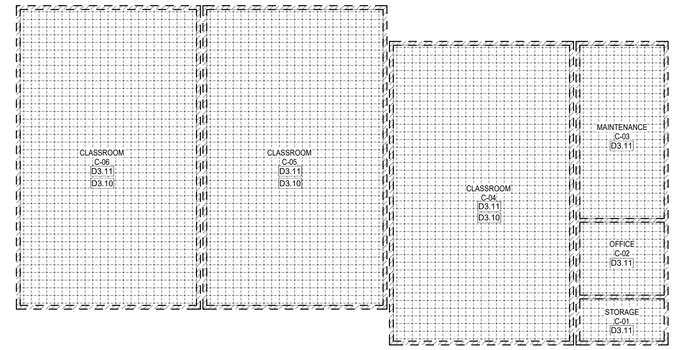
**BLDG E, F, G & H DEMOLITION FLOOR PLAN & SITE**

Sheet No.

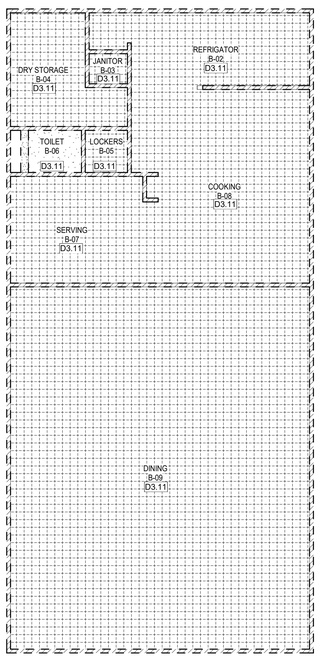
**DA013**

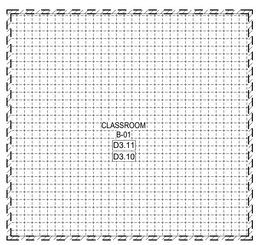



**18** BLDG D - DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"

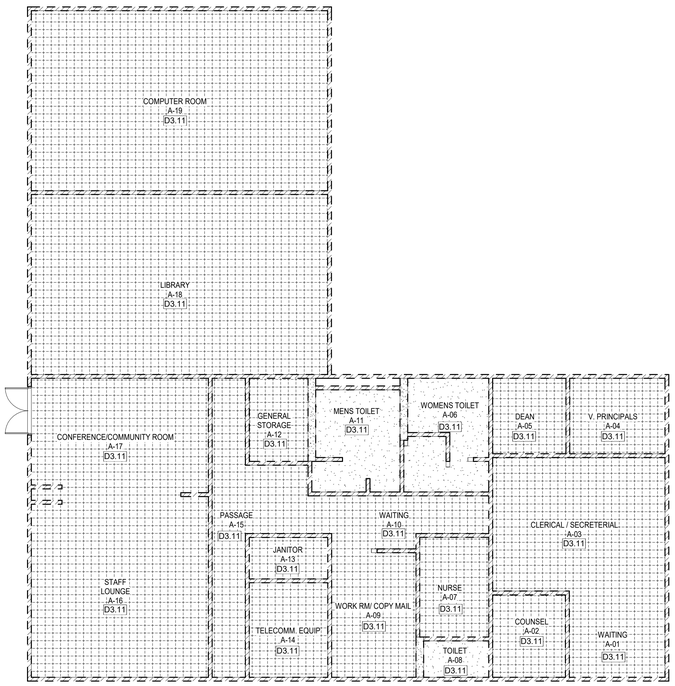



**15** BUILDING C - DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"




**6** BUILDING B & B1 - DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"




**3** BUILDING A - REFLECTED CEILING PLAN
1/8" = 1'-0"

## KEYNOTES

D3.10 EXISTING PROJECTION SCREENS TO BE DEMOLISHED
D3.11 EXISTING LIGHTING FIXTURES TO BE DEMOLISHED

5

## DEMOLITION LEGEND

(E) GYPBOARD CEILING TO BE DEMO

(E) 12"x12" TBAR CEILING TO BE DEMO

WALL TO BE DEMOLISHED

4

## GENERAL DEMOLITION NOTES:

1. THE DEMOLITION PLAN OUTLINES SOME OF THE SCOPE OF THE WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMO SCOPE.
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7. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE. TO MATCH EXISTING/ADJACENT CONSTRUCTION.
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11. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD CONDITION.
12. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
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Consultant

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DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

Sheet Info

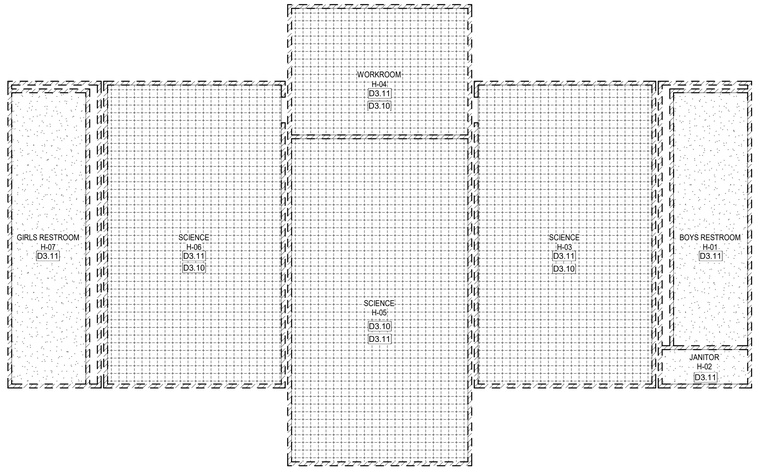
JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 11/21/25

Sheet Title

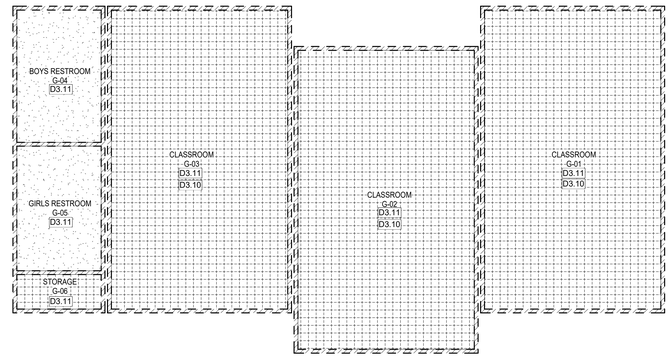
**BLDG A, B, C, & D DEMOLITION RCP PLAN**

Sheet No.

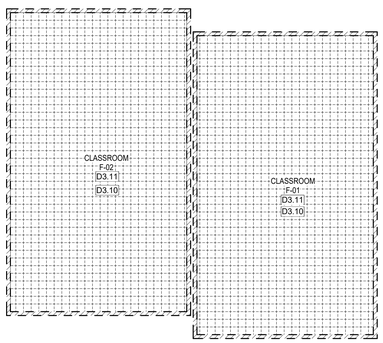
**DA014**



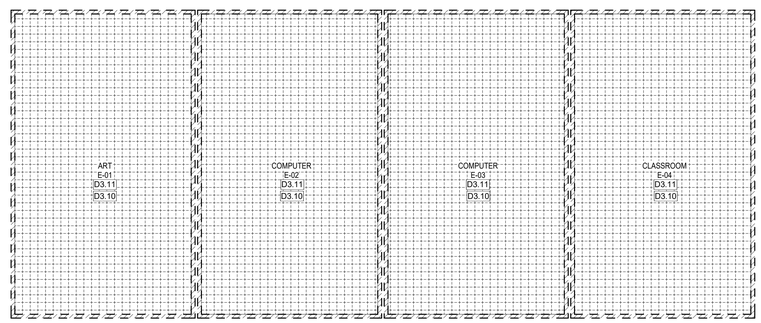

**18** BUILDING H - DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"




**15** BUILDING G - DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"




**6** BUILDING F - DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"




**3** BUILDING E - DEMO REFLECTED CEILING PLAN
1/8" = 1'-0"

## KEYNOTES

D3.10 EXISTING PROJECTION SCREENS TO BE DEMOLISHED
D3.11 EXISTING LIGHTING FIXTURES TO BE DEMOLISHED

5

## DEMOLITION LEGEND

(E) GYPBOARD CEILING TO BE DEMO

(E) 12"x12" TBAR CEILING TO BE DEMO

WALL TO BE DEMOLISHED

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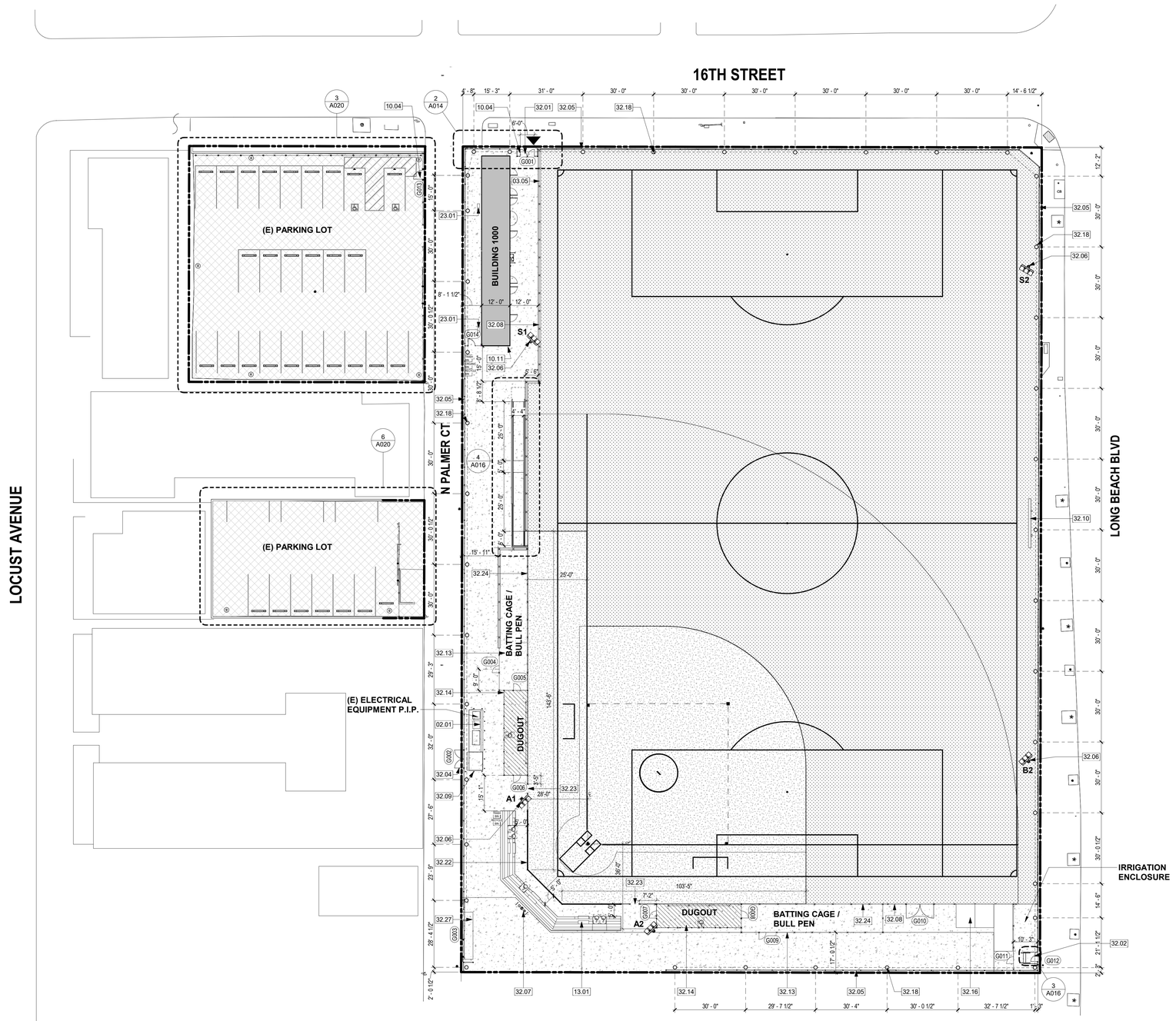
| DATE: | 11/21/25 |

Sheet Title

**BLDG E, F, G & H DEMOLITION RCP PLAN**

Sheet No.

**DA015**




## KEYNOTES

| | |
|---|---|
| 02.01 | EXISTING ELECTRICAL EQUIPMENT & PAD TO REMAIN, PROTECT IN PLACE |
| 03.05 | CONCRETE RETAINING WALL, REFER TO 13/S4.1 |
| 10.04 | SIGNAGE PER 25/G005 |
| 10.11 | (N) ASSISTIVE LISTENING SYSTEM SIGNAGE, REFER TO 20/G005 |
| 13.01 | THREE ROW BLEACHER ANCHORED TO CONCRETE PAVING. REFER TO BLEACHER DRAWINGS & 15/S4.1. |
| 23.01 | CONDENSING UNIT PER MODULAR BUILDING DRAWINGS AND 13/A-5.50N |
| 32.01 | 6'-0" WIDE METAL GATE PER 6/A014 & GATE SCHEDULE |
| 32.02 | 3'-0" PEDESTRIAN GATE PER 18/A014 & GATE SCHEDULE |
| 32.04 | 8'-0" WIDE SERVICE METAL DOUBLE GATE PER 21/A014 & GATE SCHEDULE |
| 32.05 | METAL FENCE PER 06/A015 AND STRUCTURAL DRAWINGS |
| 32.06 | MUSCO LIGHT. PROVIDE FELT EXPANSION JOINT AT BASE OF COLUMN & PADDING PER SPEC 11 68 33.23 |
| 32.07 | ACCESSIBLE PEDESTAL DRINKING FOUNTAIN AND BOTTLE FILLER STATION,PER 8/G004. REFER TO CIVIL DRAWINGS |
| 32.08 | 10'-0" HIGH OUTFIELD CHAINLINK FENCE PER 2/A015 |
| 32.09 | PIPE BOLLARD, PER 30/A015 |
| 32.10 | SCOREBOARD W/PADDING PER SPEC 11 68 33.23, REFER TO ELECTRICAL AND SCOREBOARD DRAWINGS |
| 32.13 | BULLPEN / BATTING CAGE PER 3/A013 & S2.1 |
| 32.14 | DUGOUT PER 3/A013 & S2.1 |
| 32.16 | (2) 8'-0" X 10'-0" STORAGE CONTAINER, (1) 8'-0"x 20'-0", O.F.C.I. |
| 32.18 | SPORTS NETTING FENCE PER 14/A015 |
| 32.22 | CHAINLINK BACKSTOP PER 6/A013 |
| 32.23 | CHAINLINK 4'-0" WIDTH OPENING PER 27/A013 |
| 32.24 | MOW STRIP PER 29/A015 |
| 32.27 | ROLLED CURB PER CIVIL DRAWINGS |

5

## SITE PLAN LEGEND

- NEW NATURAL TURF
- NEW MODULAR BUILDING, SEE MODULAR DRAWINGS
- NEW DUGOUT
- NEW CONCRETE PAVING
- NEW INFILL CLAY
- SEAL COAT OVER EXISTING AC PAVEMENT
- SITE ARRIVAL

4

3

2

1

**1** OVERALL SITE PLAN
1" = 20'-0"

G F E D C B A

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | 9216-654 |
| PTN No.: | 64725-585 |

**Facilities Management**

Stamps

LICENSED ARCHITECT
Hong Tao
No. C-31162
REN. 10-31-2027
STATE OF CALIFORNIA

Architect

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8163 ROCHESTER AVE.
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Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

Sheet Info

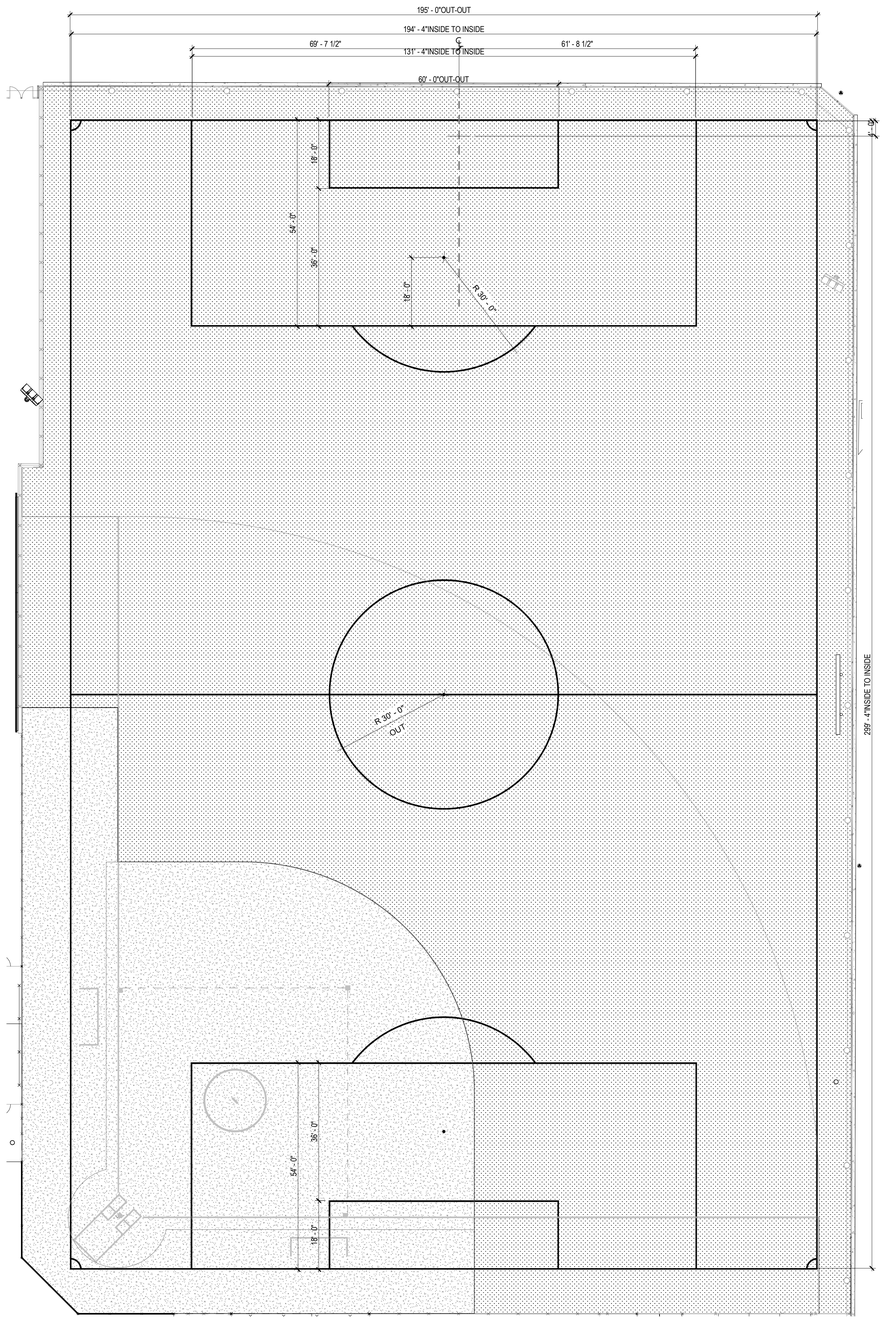
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

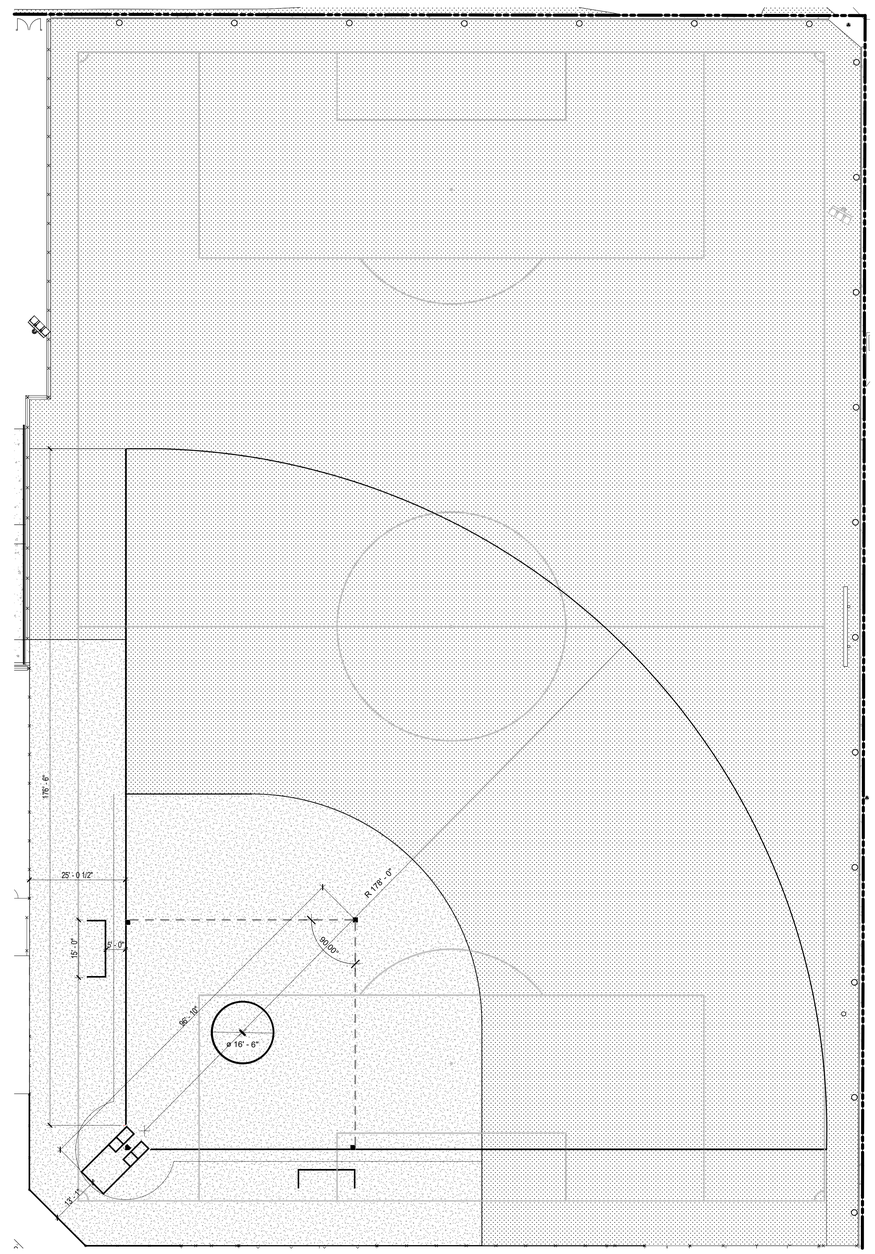
**OVERALL SITE PLAN**

Sheet No.

**A010**




6 SOCCER FIELD DIMENSIONS
1/16" = 1'-0"




3 SOFTBALL FIELD DIMENSIONS
1/16" = 1'-0"

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Issue

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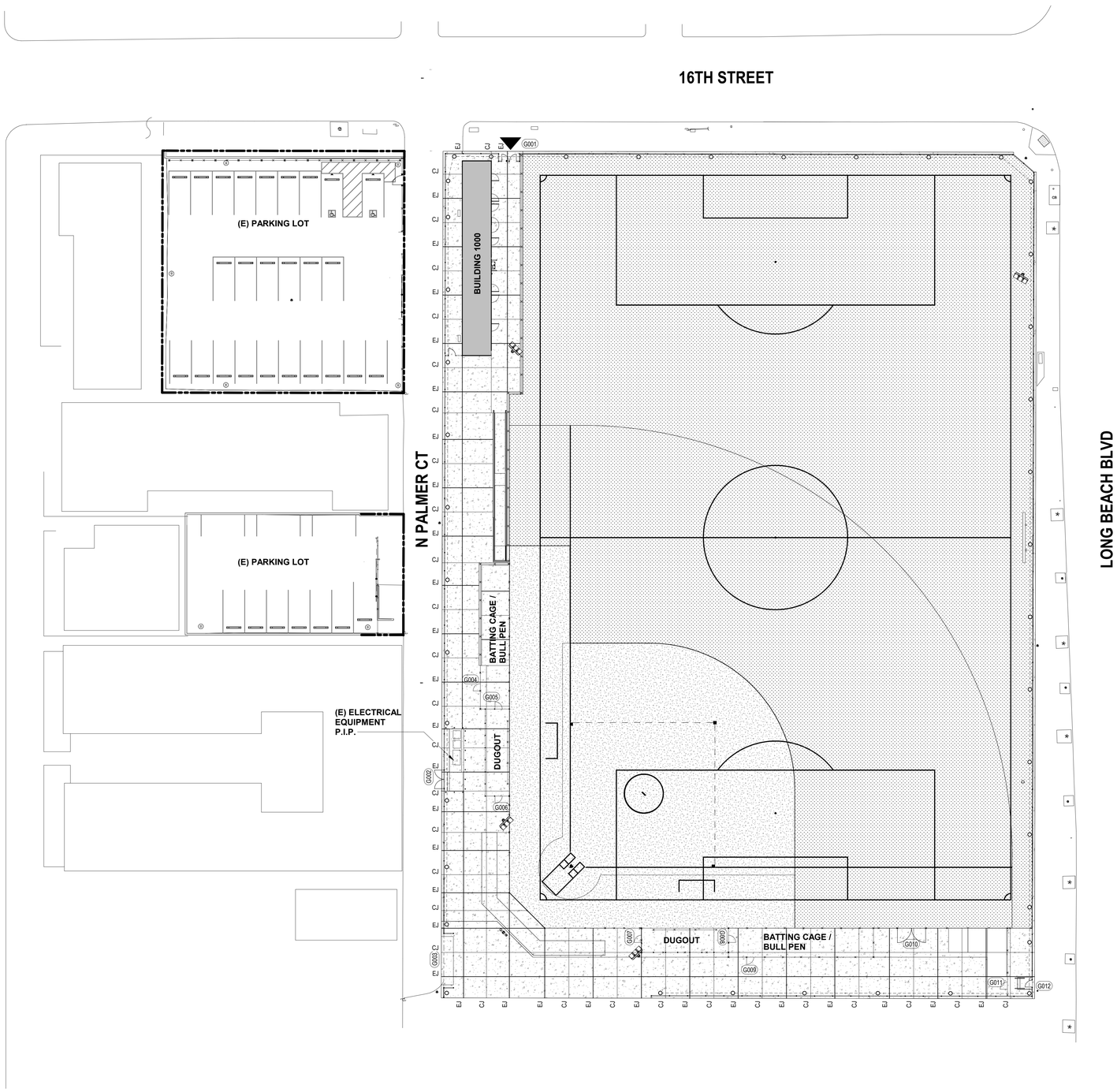
|---|---|
| JOB No.: | 240469 |
| SCALE: | 1/16" = 1'-0" |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

ENLARGED SITE PLAN - SOFTBALL & SOCCER FIELD

Sheet No.

A011




1 SITE PLAN - PAVING
1" = 20'-0"

## SITE PLAN LEGEND

- NEW NATURAL TURF
- NEW MODULAR BUILDING, SEE MODULAR DRAWINGS
- NEW CONCRETE
- NEW INFILL CLAY
- CONCRETE SITE PAVING - PER CIVIL DRAWINGS
  - **CONTROL JOINTS (CJ)** @10' O.C. MAX. - REFER TO CIVIL DETAIL 5/C401
  - **EXPANSION JOINTS (EJ)** @20' O.C. MAX. - REFER TO CIVIL DETAIL 5/C401
- SITE ARRIVAL

Agency Approval

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Sheet Title

PAVING SITE PLAN

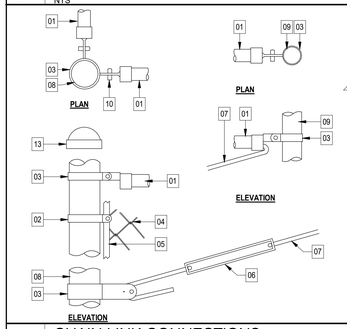
Sheet No.

A012

## GATE SCHEDULE

| GATE # | SIZE W & H WIDTH | SIZE W & H HEIGHT | PAIR / SINGLE | DETAILS | MATERIALS | PANIC HARDWARE | REMARKS |
|---|---|---|---|---|---|---|---|
| G001 | 3'-0" (EA) | 10'-0" (EA) | PAIR | **6 / A014** | STEEL | NO | ACCESS GATE |
| G002 | 3'-0" (EA) | 10'-0" (EA) | PAIR | **21 / A014** | STEEL | NO | SERVICE GATE |
| G003 | 20'-0" | 12'-0" | ROLLING GATE | **18 / A015** | STEEL | NO | VEHICULAR GATE |
| G004 | 3'-0" | 7'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | ACCESSIBLE PEDESTRIAN GATE W/ BUTTERFLY LATCH W/O LOCK |
| G005 | 3'-0" | 7'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | |
| G006 | 3'-0" | 7'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | |
| G007 | 3'-0" | 7'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | |
| G008 | 3'-0" | 7'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | |
| G009 | 3'-0" | 7'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | |
| G010 | 6'-0" (EA) | 8'-0" | PAIR | **16 / A013** | CHAINLINK | NO | |
| G011 | 3'-0" | 7'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | SERVICE GATE |
| G012 | 3'-0" | 10'-0" | SINGLE | **18 / A014** | STEEL | NO | SERVICE GATE |
| G013 | 4'-0" | 8'-0" | SINGLE | **4 / A013** | CHAINLINK | NO | ACCESSIBLE PEDESTRIAN GATE W/ BUTTERFLY LATCH W/ LOCK |
| G014 | 3'-0" | 8'-0" | SINGLE | **18 / A014** | STEEL | NO | SERVICE GATE |

## 30 GATE & DOOR SCHEDULE
NTS




**NOTES:**

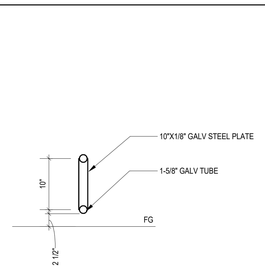
-CONTRACTOR TO VERIFY ALL ATTACHEMENTS/DIMENSIONS AND INSTALL PER MANUFACTURER RECOMMENDATIONS

-ALL COMPONENTS ARE TO MATCH COLOR AND FINISH OF EXISTING

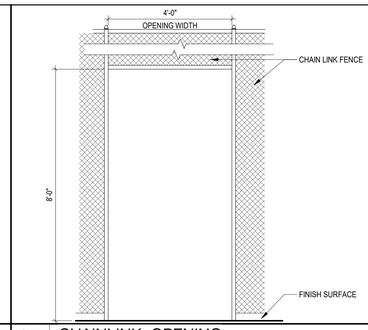
-ANY COMPONENTS REQUIRED FOR A COMPLETE FENCE SYSTEM, BUT NOT SHOWN, SHOULD BE CONSIDERED A PART OF THESE DRAWINGS ADN INCLUDED IN THE FINAL INSTALLED SYSTEM.

| | |
|---|---|
| 01 | BRACE RAIL |
| 02 | TENSION CLIP/BAND |
| 03 | BRACE BAND |
| 04 | CHAIN LINK MESH |
| 05 | TENSION FLAR BAR |
| 06 | TURNBUCKLE |
| 07 | TRUSS ROD |
| 08 | CORNER OR END POST |
| 09 | LINE POST |
| 10 | BOLT AND NUT. VERY WITH MANUFACTURER |
| 11 | RAIL TIE WIRE |
| 12 | TOP RAIL |
| 13 | DOME POST CAP. SIZE TO MATCH POST |

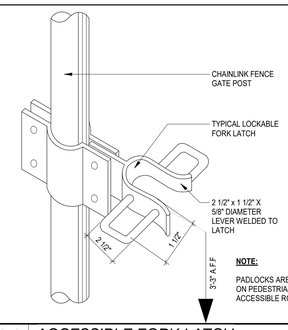
## 24 CHAIN LINK CONNECTIONS
1 1/2" = 1'-0"




## 28 KICKPLATE MOUNTING DETAIL
1" = 1'-0"



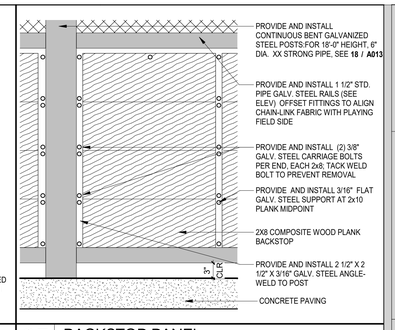

## 27 CHAINLINK OPENING
1/2" = 1'-0"




**NOTE:**

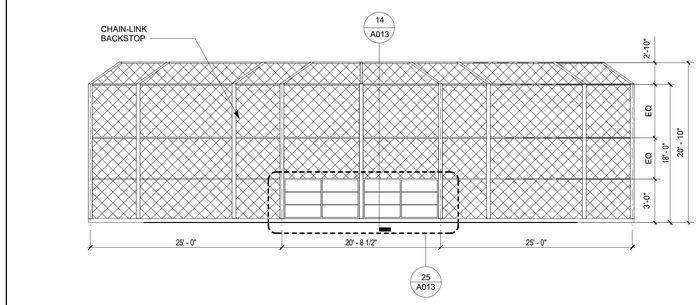
PADLOCKS ARE NOT PERMITTED ON PEDESTRIAN GATES ON AN ACCESSIBLE ROUTE.

## 26 ACCESSIBLE FORK LATCH
3" = 1'-0"

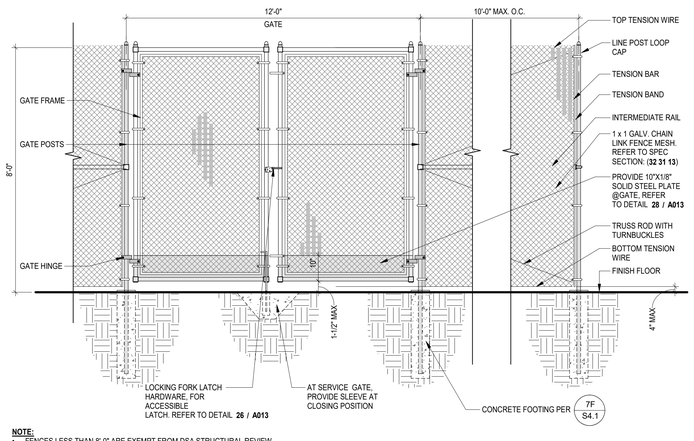



## 25 BACKSTOP PANEL
1" = 1'-0"

5



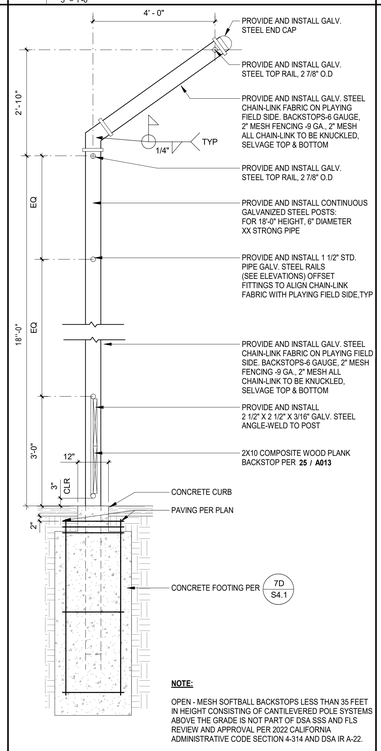

## 18 BACKSTOP ELEVATION
1/8" = 1'-0"




**NOTE:**

- FENCES LESS THAN 8'-0" ARE EXEMPT FROM DSA STRUCTURAL REVIEW.
- REFER TO **24 / A013** FOR ADDITIONAL INFORMATION.

## 16 CHAIN-LINK FENCE - DOUBLE GATE
1/2" = 1'-0"

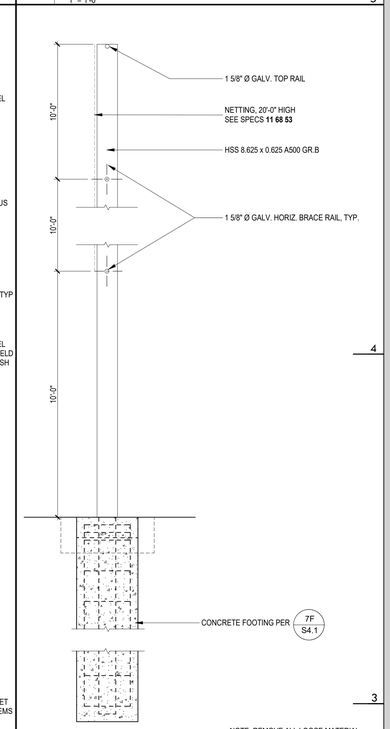



**NOTE:**

OPEN - MESH SOFTBALL BACKSTOPS LESS THAN 35 FEET IN HEIGHT CONSISTING OF CANTILEVERED POLE SYSTEMS ABOVE THE GRADE IS NOT PART OF DSA SSS AND FLS REVIEW AND APPROVAL PER 2022 CALIFORNIA ADMINISTRATIVE CODE SECTION 4-314 AND DSA IR A-22.

## 14 BACKSTOP SECTION
1/2" = 1'-0"

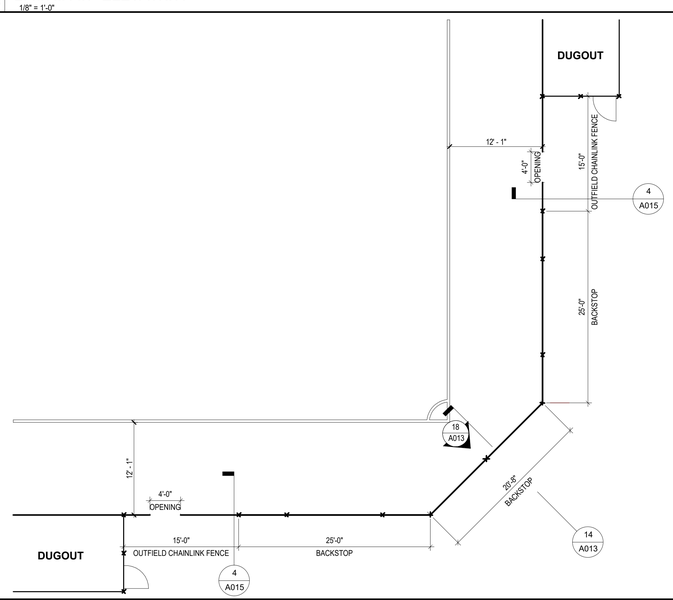
4



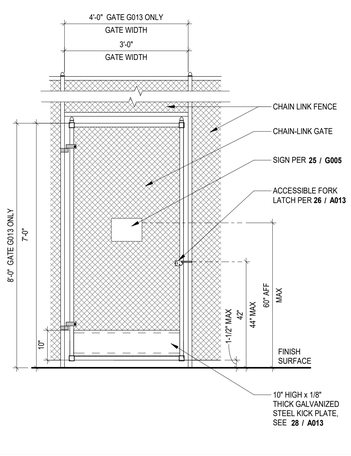

NOTE: REMOVE ALL LOOSE MATERIAL BEFORE PLACING CONCRETE

3

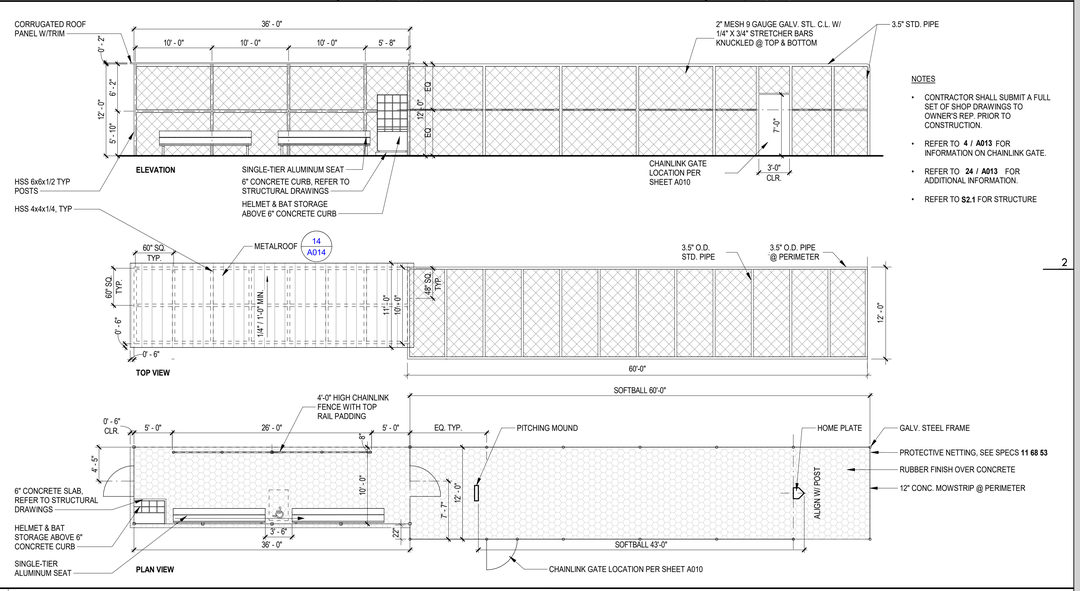
## 13 30' FENCE SECTION
1/2" = 1'-0"




## 6 BACKSTOP PLAN
1/8" = 1'-0"




## 4 CHAINLINK GATE
1/2" = 1'-0"




NOTES

- CONTRACTOR SHALL SUBMIT A FULL SET OF SHOP DRAWINGS TO OWNER'S REP. PRIOR TO CONSTRUCTION.
- REFER TO **4 / A013** FOR INFORMATION ON CHAINLINK GATE.
- REFER TO **24 / A013** FOR ADDITIONAL INFORMATION.
- REFER TO **S2.1** FOR STRUCTURE

2

## 3 DUGOUTS & BULLE/BATTING CAGE ENLARGED PLANS AND ELEVATION
1/8" = 1'-0"

1

G F E D C B A

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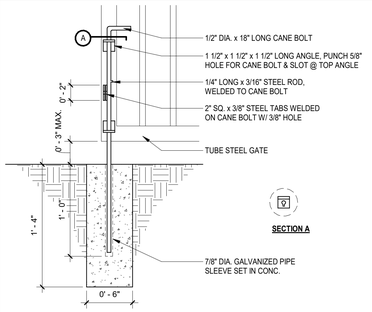
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

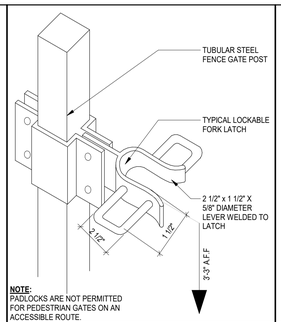
BULLPEN, BATTING CAGE, BACKSTOP DETAILS & GATE SCHEDULE

Sheet No.

A013

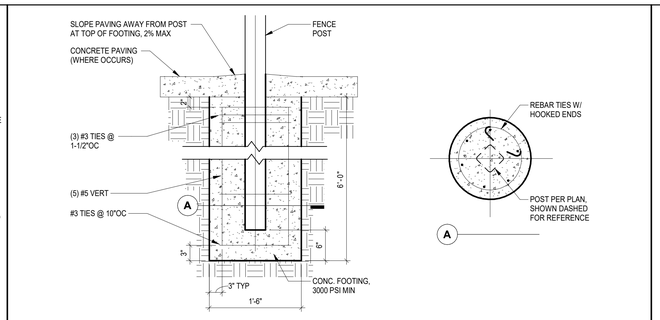



**30** CANE BOLT @ GATE
1 1/2" = 1'-0"




**NOTE:**
PADLOCKS ARE NOT PERMITTED FOR PEDESTRIAN GATES ON AN ACCESSIBLE ROUTE.

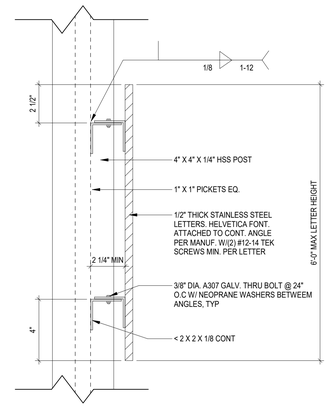
**29** ACCESSIBLE FORK LATCH
3" = 1'-0"



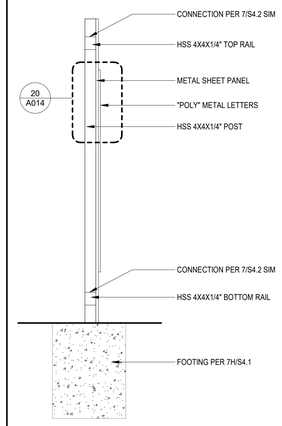

**28** GATE POST FOOTING
1" = 1'-0"

## KEYNOTES

| | |
|---|---|
| 05.02 | METAL SHEET PANEL PER 19/A014 |
| 05.03 | STAINLESS STEEL LETTERS PER 20/A014 |
| 32.01 | 6'-0" WIDE METAL GATE PER 6/A014 & GATE SCHEDULE |
| 32.05 | METAL FENCE PER 06/A015 AND STRUCTURAL DRAWINGS |
| 32.18 | SPORTS NETTING FENCE PER 14/A015 |



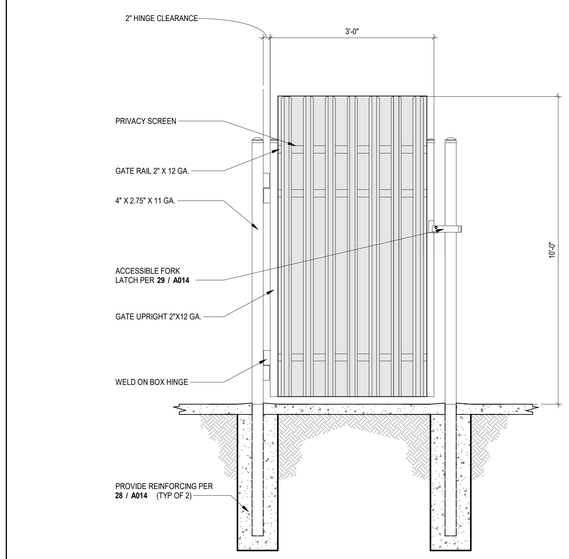

**20** LETTER ATTACHMENT
3" = 1'-0"




5

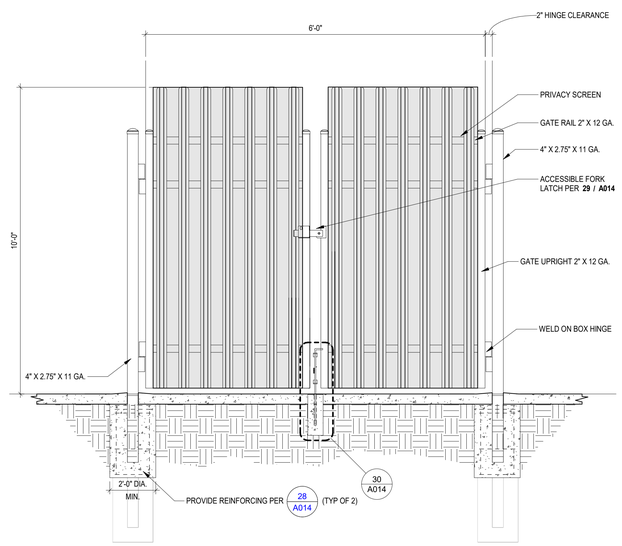
**19** METAL SHEET PANEL SECTION
1/2" = 1'-0"

4



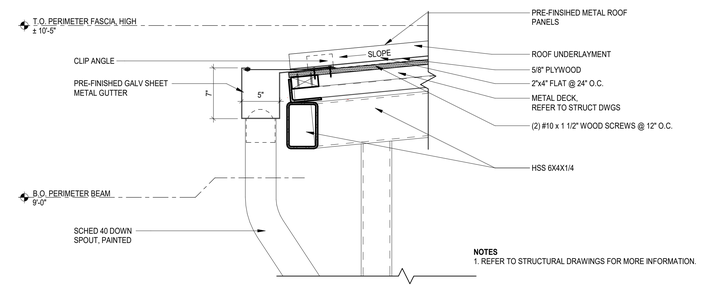

**NOTES:**
-FABRICATE DOOR WITH 1" UNDERCUT MIN., 3" MAX
-DOOR TO BE 5 LB. MAX. OPERATING PRESSURE

**18** SINGLE NON PH GATE
1/2" = 1'-0"




**NOTES:**
-FABRICATE DOOR WITH 1" UNDERCUT MIN., 3" MAX
-DOOR TO BE 5 LB. MAX. OPERATING PRESSURE

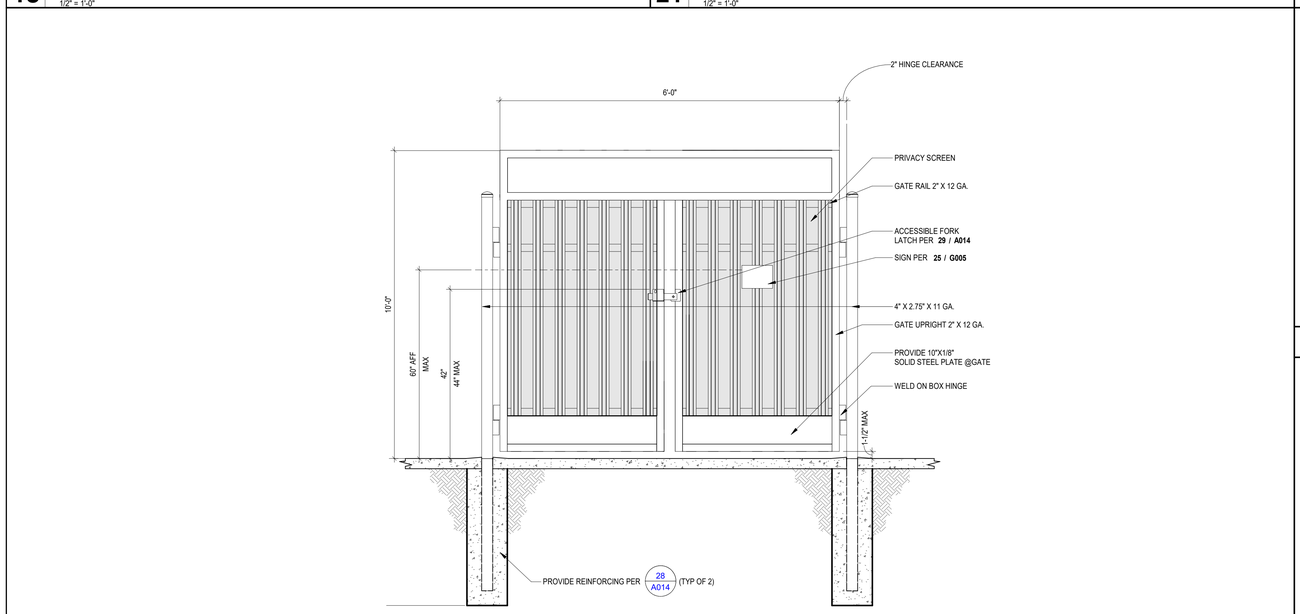
**21** DOUBLE NON PH SERVICE GATE
1/2" = 1'-0"




**NOTES**
1. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

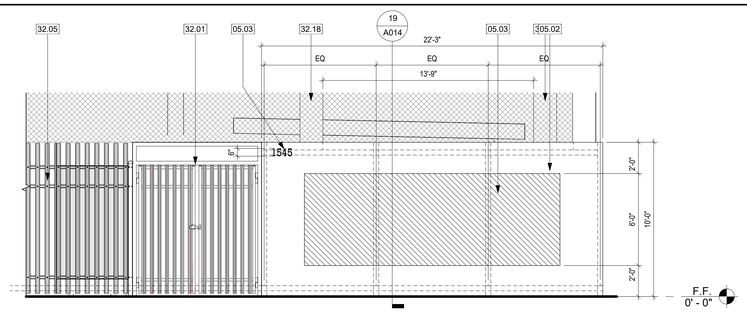
**14** METAL ROOF - GUTTER AT DUGOUTS
1 1/2" = 1'-0"

3



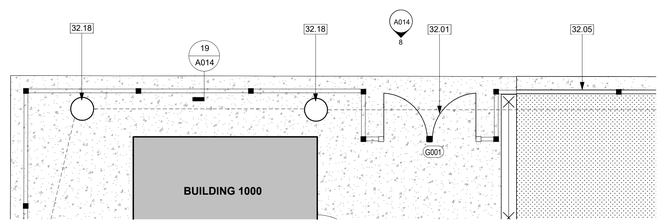

**NOTES:**
-FABRICATE DOOR WITH 1" UNDERCUT MIN., 3" MAX
-DOOR TO BE 5 LB. MAX. OPERATING PRESSURE

**6** DOUBLE NON PH GATE
1/2" = 1'-0"




**8** GATEWAY SOUTH
1/4" = 1'-0"

2




**2** ENTRANCE ENLARGEMENT
1/4" = 1'-0"

1

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Client

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **9216-654**
PTN No.: **64725-585**
**Facilities Management**

Stamps

LICENSED ARCHITECT
Aprig Tao
No. C-31162
REN. 10-31-2027
STATE OF CALIFORNIA

Architect

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SUITE 100
RANCHO CUCAMONGA, CA
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Consultant

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

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DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
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Sheet Info

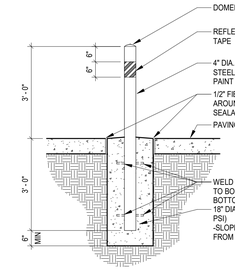
JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 11/21/25

Sheet Title

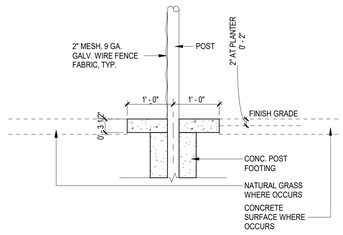
**SITE DETAILS - GATEWAY, FENCING & GATES**

Sheet No.

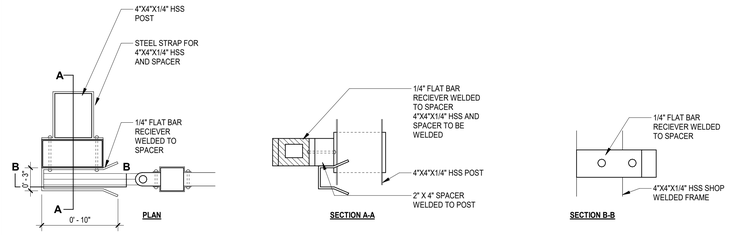
**A014**



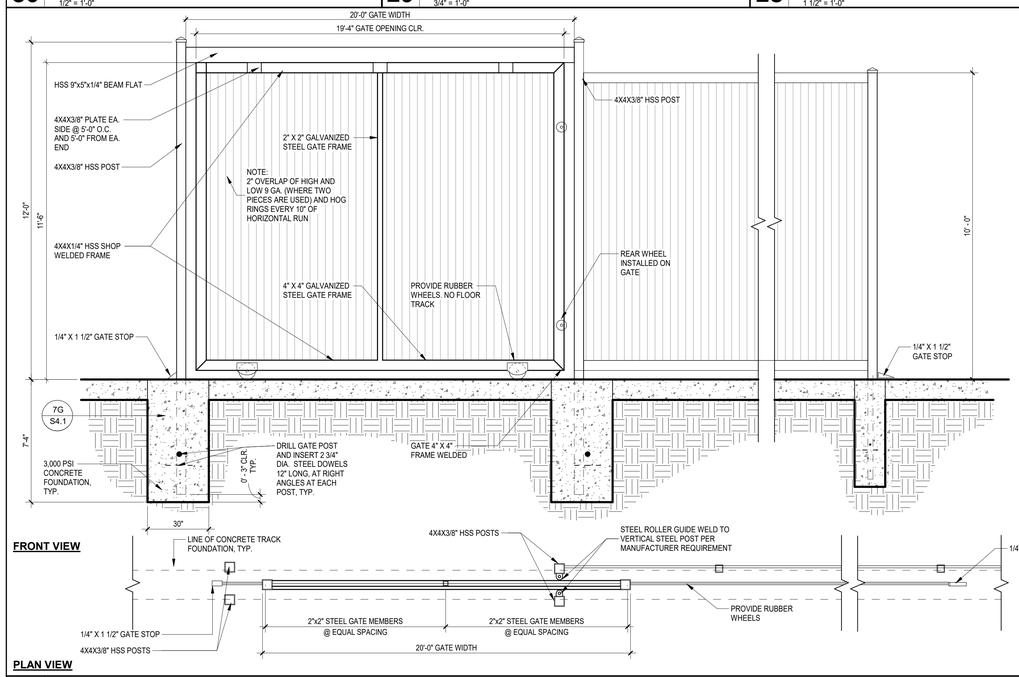

**30** PIPE BOLLARD
1/2" = 1'-0"




**29** MOW STRIP
3/4" = 1'-0"

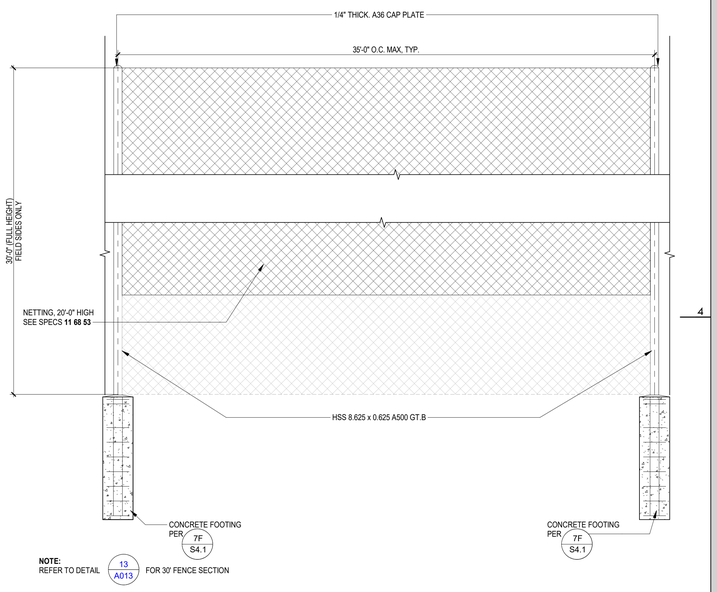



**28** ROLLING GATE LATCH
1 1/2" = 1'-0"

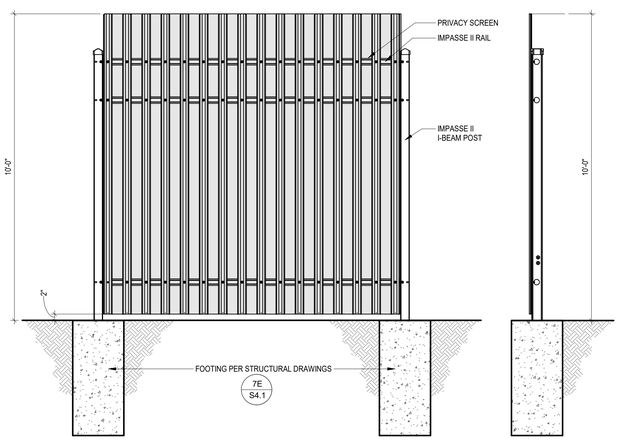



GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION, TYP.
2. CONTRACTOR TO PROVIDE CUT-SHEETS FOR REVIEW, TYP.
3. REFER TO **28 / A015** FOR LATCH INFO.
4. CONTRACTOR TO WELD (ON SITE) ALL CONNECTIONS AND GRIND SMOOTH.
5. ALL STEEL TO BE PAINTED AFTER FABRICATION AND PAINTED PER SPEC'S.

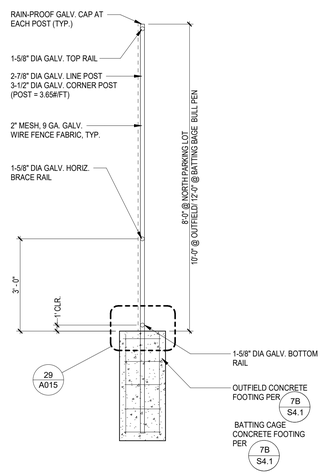
**18** ROLLING VEHICULAR GATE
1/2" = 1'-0"



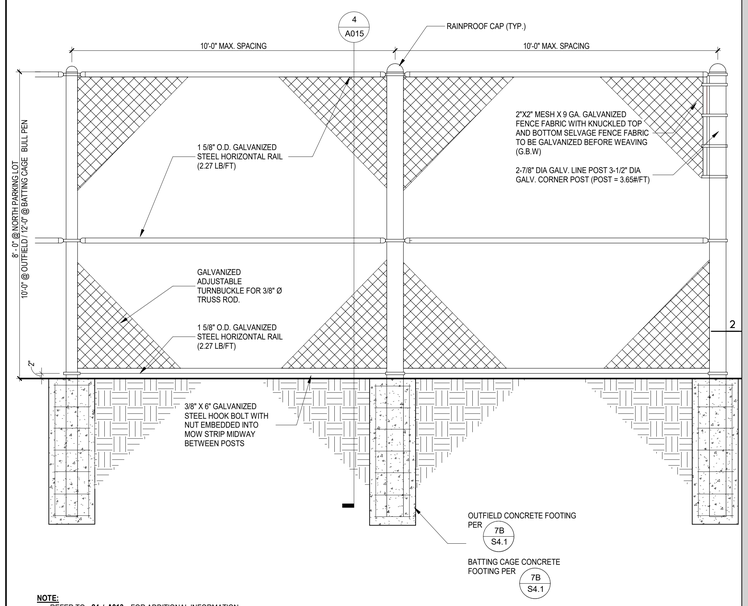

**14** SPORTS NETTING
1/4" = 1'-0"




**6** PERIMETER FENCING 10'
1/2" = 1'-0"




**4** 10 FT FENCE SECTION
1/2" = 1'-0"




NOTE:
- REFER TO **24 / A013** FOR ADDITIONAL INFORMATION.

**2** CHAINLINK FENCE
1/2" = 1'-0"

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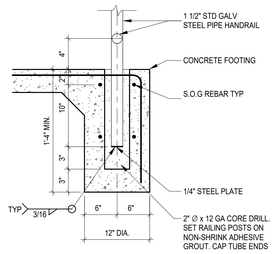
Sheet Title

**SITE DETAILS - FENCING & GATES**

Sheet No.

**A015**

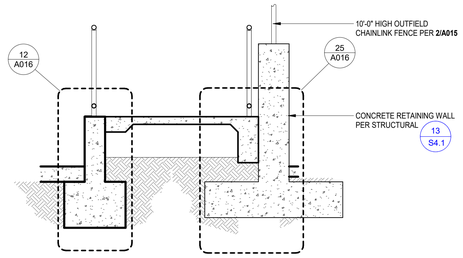



ALL STEEL SHALL BE GALVANIZED U.N.O

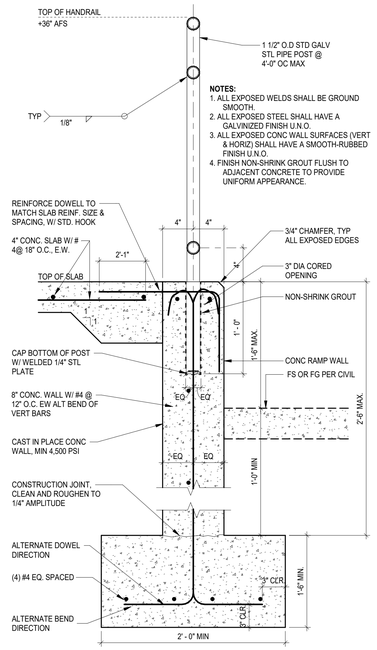
**25** HANDRAIL FOOTING
1 1/2" = 1'-0"

## KEYNOTES

| | |
|---|---|
| 02.05 | EXISTING LIGHT POLE TO REMAIN, PROTECT IN PLACE |
| 02.06 | EXISTING MASONRY WALL PER A# 64323 TO REMAIN, PROTECT IN PLACE |
| 02.09 | EXISTING CHAINLINK POST TO REMAIN, PROTECT IN PLACE |
| 03.04 | CONCRETE RAMP |
| 03.05 | CONCRETE RETAINING WALL, REFER TO 13/S4.1 |
| 05.01 | RAMP HANDRAIL PER 6/A016 |
| 05.04 | STAIR HANDRAIL PER 15/A016 |
| 32.05 | METAL FENCE PER 06/A015 AND STRUCTURAL DRAWINGS |
| 32.19 | DETECTABLE WARNING PAVERS, REFER TO 22/A020 |
| 32.21 | 4" BLUE PAINT BORDER STRIPING |
| 32.26 | 8'-0" HIGH CHAINLINK FENCE PER 2/A015 |
| 32.28 | NEW CHAINLINK POST PER 2/A015 |
| 32.29 | NEW 4'-0" WIDE CHAINLINK GATE PER 4/A013 |
| 32.30 | NEW CHAINLINK FABRIC OVER EXISTING CHAINLINK POSTS |
| 32.32 | CONCRETE STAIRS RE: CIVIL DRAWINGS |

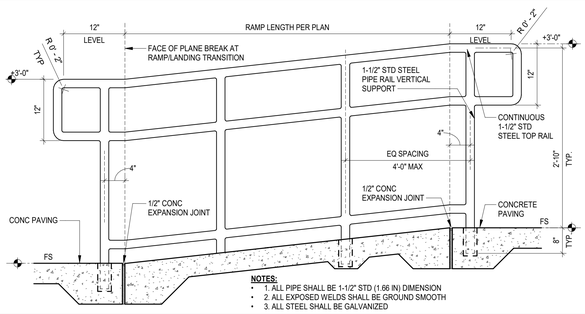



**24** RAMP SECTION
1/2" = 1'-0"



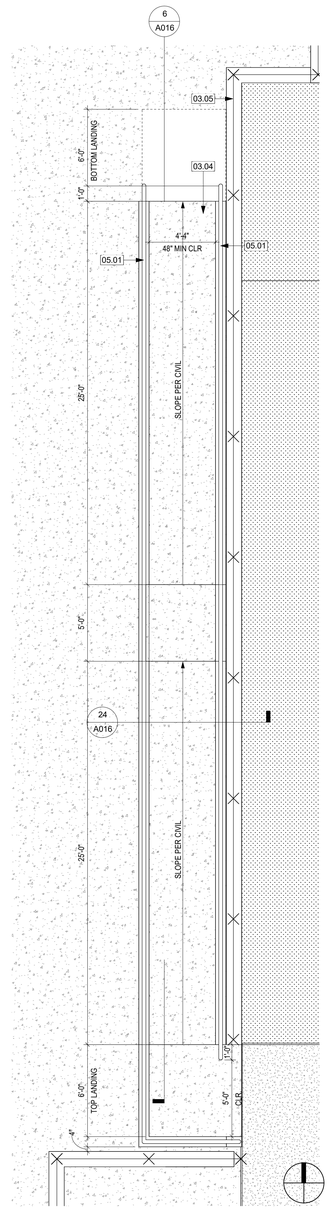

NOTES:
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH.
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.
3. ALL EXPOSED CONC WALL SURFACES (VERT & HORIZ) SHALL HAVE A SMOOTH-RUBBED FINISH U.N.O.
4. FINISH NON-SHRINK GROUT FLUSH TO ADJACENT CONCRETE TO PROVIDE UNIFORM APPEARANCE.

**12** RAMP HANDRAIL SECTION
1 1/2" = 1'-0"

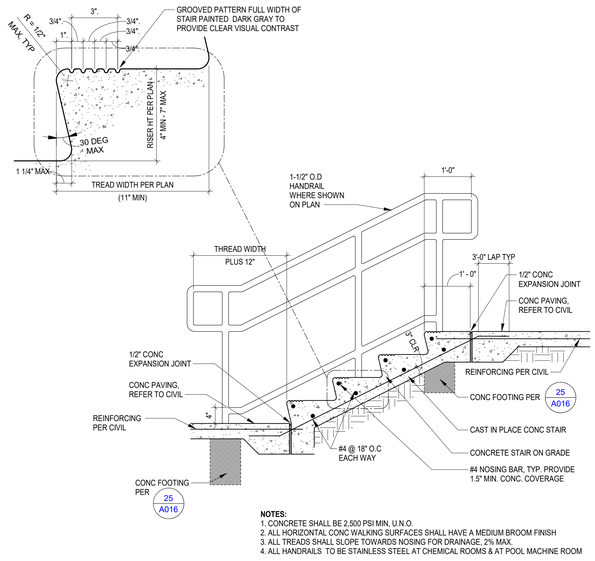



NOTES:
1. ALL PIPE SHALL BE 1-1/2" STD (1.66 IN) DIMENSION
2. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH
3. ALL STEEL SHALL BE GALVANIZED

**6** RAMP HANDRAIL
1" = 1'-0"

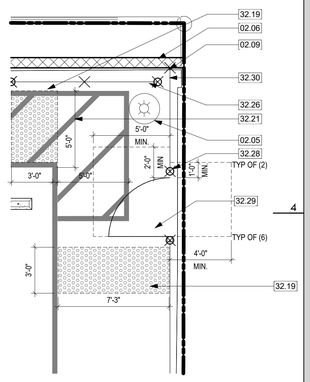



**4** RAMP FLOOR PLAN
1/4" = 1'-0"

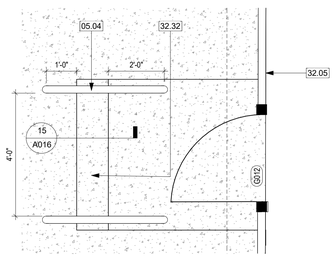



NOTES:
1. CONCRETE SHALL BE 2,500 PSI MIN, U.N.O.
2. ALL HORIZONTAL CONC WALKING SURFACES SHALL HAVE A MEDIUM BROOM FINISH
3. ALL TREADS SHALL SLOPE TOWARDS NOSING FOR DRAINAGE, 2% MAX.
4. ALL HANDRAILS TO BE STAINLESS STEEL AT CHEMICAL ROOMS & AT POOL MACHINE ROOM

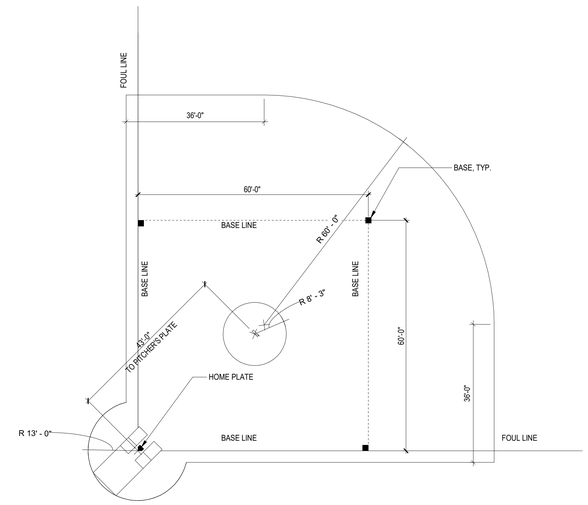
**15** STAIR SECTION
3/4" = 1'-0"




**13** ENLARGED PARKING LOT (N) GATE
1/4" = 1'-0"




**3** ENLARGED SITE PLAN - STAIRS
1/2" = 1'-0"




**2** SOFTBALL FIELD LAYOUT
1/16" = 1'-0"

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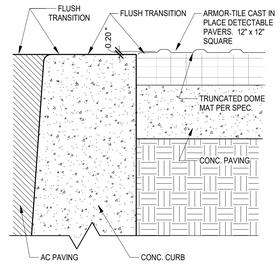
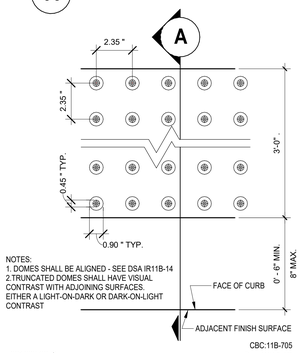
**SITE DETAILS - ENLARGED SITE PLAN**

Sheet No.

**A016**




A SECTION

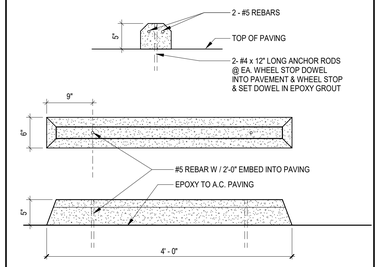



NOTES:
1. DOMES SHALL BE ALIGNED - SEE DSA IR11B-14
2.TRUNCATED DOMES SHALL HAVE VISUAL CONTRAST WITH ADJOINING SURFACES. EITHER A LIGHT-ON-DARK OR DARK-ON-LIGHT CONTRAST

CBC:11B-705

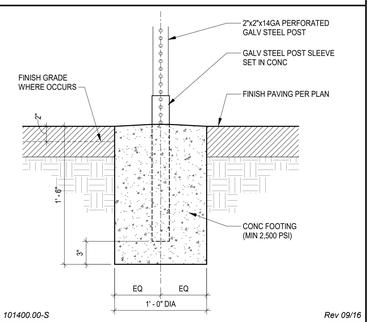
321623.02-S Rev 12/15/17

**22** TRUNCATED DOMES
3" = 1'-0"




CONCRETE: 3000 PSI MIN.
MIN. WEIGHT: AT 5'-0" LENGTH - 190 LBS.

**21** CONCRETE WHEEL STOP
1" = 1'-0"

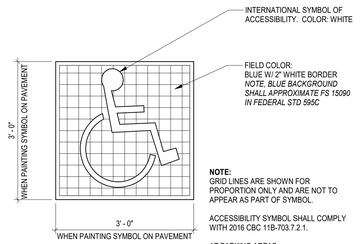



101400.00-S Rev 09/16

**20** SIGN POST FOOTING
1 1/2" = 1'-0"

## KEYNOTES

| | |
|---|---|
| 02.05 | EXISTING LIGHT POLE TO REMAIN, PROTECT IN PLACE |
| 02.06 | EXISTING MASONRY WALL PER A# 64323 TO REMAIN, PROTECT IN PLACE |
| 02.08 | EXISTING CHAINLINK FENCE AND ROLLING GATE TO REMAIN, PROTECT IN PLACE |
| 03.03 | CONCRETE WHEEL STOP, REFER TO 21/A020 |
| 10.13 | (N) POST MOUNTED ACCESSIBLE PARKING SIGNAGE, REFER TO 17/A020 |
| 32.15 | INTERNATIONAL SYMBOL OF ACCESSIBILITY, PER 18/A020 |
| 32.17 | 4" WHITE PAINT STRIPING |
| 32.19 | DETECTABLE WARNING PAVERS, REFER TO 22/A020 |
| 32.20 | SEAL COAT OVER EXISTING AC, REFER TO CIVIL DRAWINGS |
| 32.21 | 4" BLUE PAINT BORDER STRIPING |
| 32.25 | 12" HIGH WHITE LETTERS |
| 32.26 | 8'-0" HIGH CHAINLINK FENCE PER 2/A015 |
| 32.29 | NEW 4'-0" WIDE CHAINLINK GATE PER 4/A013 |
| 32.31 | NEW CHAINLINK MOUNTED SIGN PER 16/A020 |



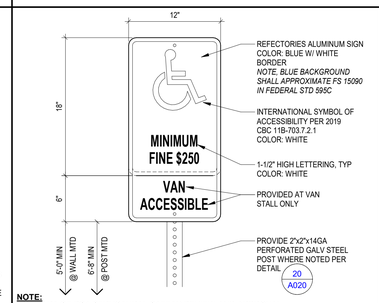

NOTE:
GRID LINES ARE SHOWN FOR PROPORTION ONLY AND ARE NOT TO APPEAR AS PART OF SYMBOL.

ACCESSIBILITY SYMBOL SHALL COMPLY WITH 2016 CBC 11B-703.7.2.1.

AT PARKING AREAS:
SYMBOL SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN VEHICLE IS PARKED IN THE SPACE.

321723.01-S CBC 2016 - Rev 12/18

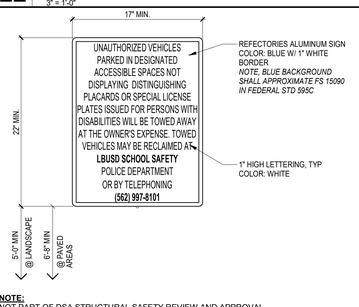
**18** ISA
3/4" = 1'-0"




NOTE:
NOT PART OF DSA STRUCTURAL SAFETY REVIEW AND APPROVAL PER DSA IR A-22 SEC 2.1.2.1

CBC 2016 - Rev 10/17

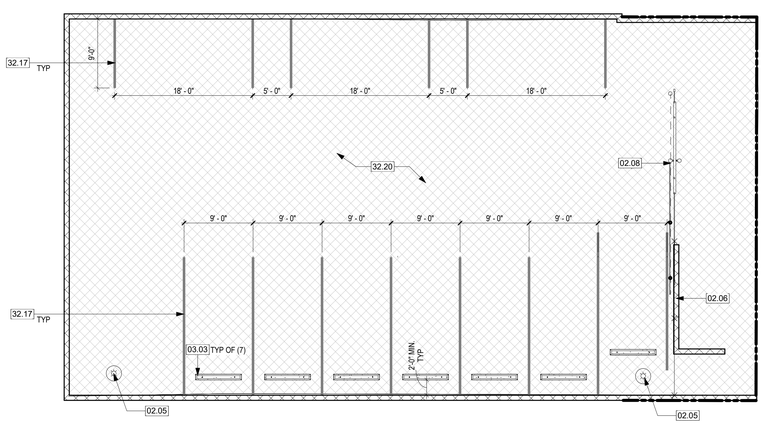
**17** ACCESSIBLE PARKING SIGN
1 1/2" = 1'-0"



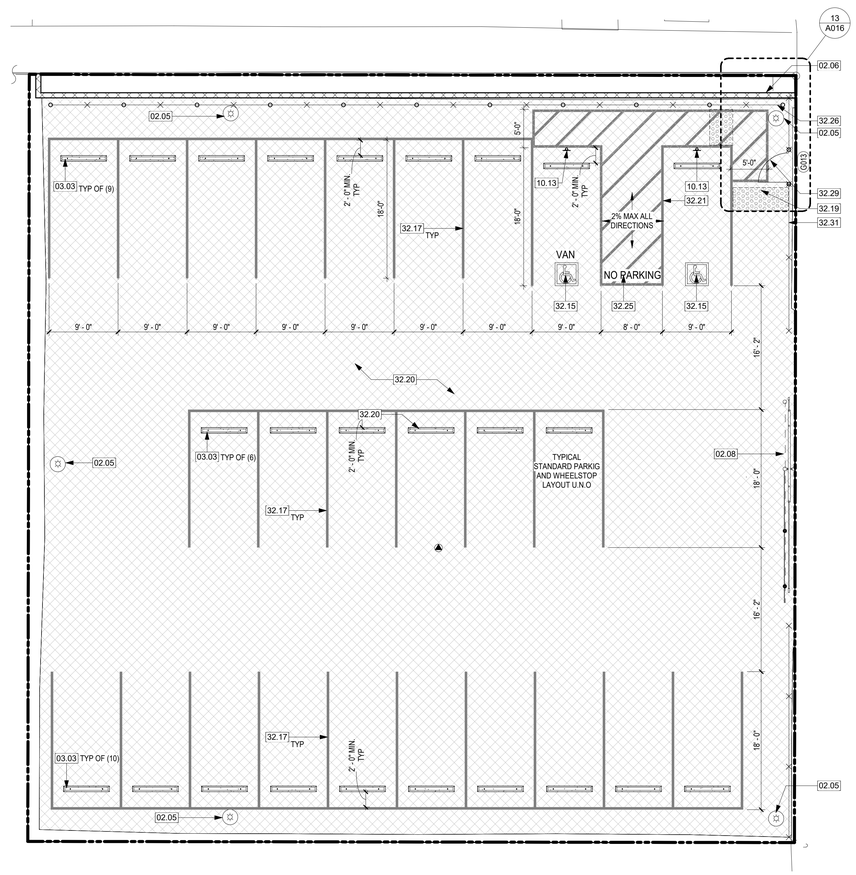

NOTE:
NOT PART OF DSA STRUCTURAL SAFETY REVIEW AND APPROVAL PER DSA IR A-22 SEC 2.1.2.1

CBC 2016 - Rev 10/17

**16** SITE ACCESS SIGN
1 1/2" = 1'-0"




**6** ENLARGED PARKING LOT SOUTH
1/8" = 1'-0"




**3** ENLARGED PARKING LOT NORTH
1/8" = 1'-0"

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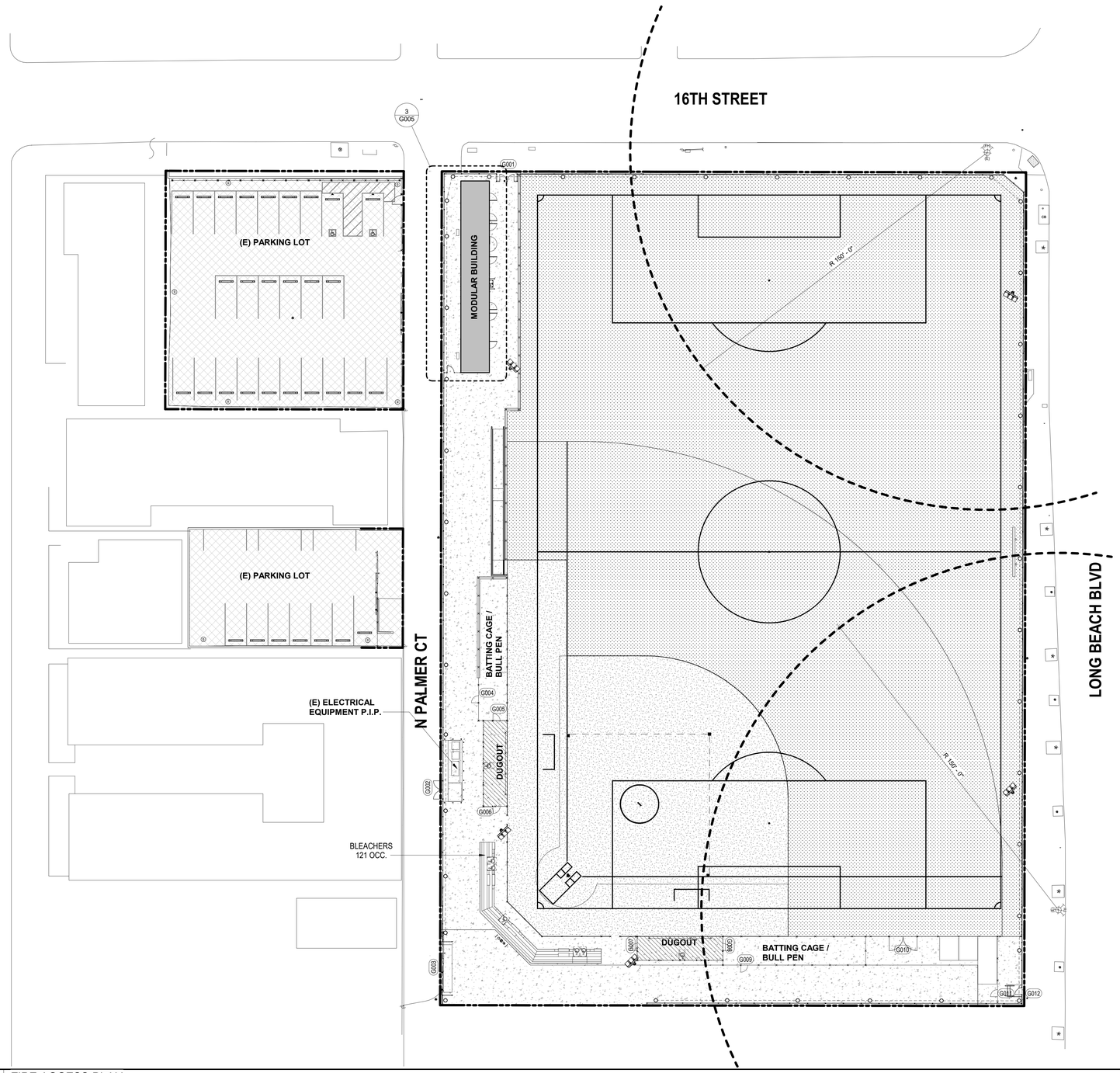
**ENLARGED SITE PLAN - ACCESSIBLE PARKING**

Sheet No.

**A020**




1 FIRE ACCESS PLAN
1" = 20'-0"

LONG BEACH Utilities
Water · Gas · Sewer

**B. Anatole Falagan,** General Manager

1800 E. Wardlow Road, Long Beach, CA 90807
562.570.2300 | LBUtilities.org

September 3, 2025

Mr. Jacob Schmautz
**PBK Architects**
8163 Rochester Avenue
Rancho Cucamonga, Ca 91730
jacob.schmautz@pbk.com

Dear Mr. Schmautz:

In response to your request to perform a fire flow test for **1545 Long Beach Blvd**, the following data was furnished:

Flow Test No. 2882 — Date of Test: 08/29/25

**Flow Location:** **FH located at east side building of 1545 Long Beach Boulevard.**
Pitot Pressure: 26 psi
4" Outlet Chart Reading: 2190 gpm

**Pressure Reading:** **FH at southwest corner of 16th Street and Long Beach Boulevard.**
Static Pressure: 70 psi
Residual Pressure: 65 psi
Size of Water Main: 8" Ductile Iron (DI) pipe on Long Beach Boulevard.

The flow test represents data taken on the above date. Flows and pressures are subject to seasonal and time of day demand variations and fluctuations in reservoir levels and these variations may be significant. The data represent hydraulic capacity in the vicinity of the test site only and care should be taken in extrapolating data to other areas.

If you have any questions, please call Mike Penaranda at (562) 570-2419.

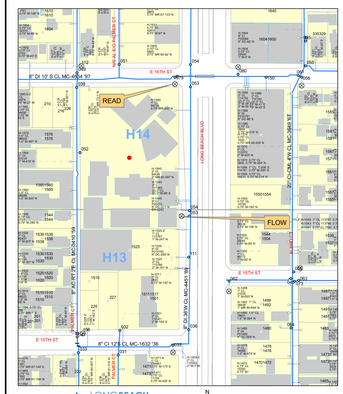
Sincerely,

Eric L. Buehler, P.E.

Eric L. Buehler, P.E.
Senior Civil Engineer

Att.

cc: Mike Penaranda, Engineering Technician II




FLOW TEST

## FIRE ACCESS LEGEND

- PROPERTY LINE / AREA OF WORK
- NEW MODULAR BUILDING, SEE MODULAR DRAWINGS
- NEW DUGOUT
- (E) FIRE HYDRANT

5

## FIRE ACCESS NOTES

1. ALL VEGETATION AND OTHER OBSTRUCTIONS OVERHANGING A FIRE ACCESS ROADWAY SHALL BE MAINTAINED TO A CLEAR HEIGHT OF 13'-6"

2. ALL POLES, BACKBOARDS, AND OTHER OBSTRUCTIONS ON PLAYGROUNDS NEAR A FIRE ACCESS ROAD SHALL BE PROVIDED WITH REFLECTIVE TAPE OR PAINT

3. KNOX KEY SWITCHES, KNOX LOCKS, OR FRANGIBLE PADLOCKS/CHAINS SHALL BE PROVIDED FOR ALL GATES AND BARRIERS IN THE PATH OF VEHICLE OR FIREFIGHTER ACCESS

4.THE CAMPUS IS IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS EASILY VISIBLE FROM THE PUBLIC ROAD FRONTING THE PROPERTY. INDIVIDUAL STRUCTURES ARE IDENTIFIED WITH 6" HIGH ADDRESS NUMBERS OR LETTERS EASILY VISIBLE FROM THE PUBLIC WAY OR FIRE ACCESS ROADWAY.

5. ALL-WEATHER ACCESS ROADWAYS AND ALL FIRE HYDRANTS SHALL BE IN PLACE AND OPERATIONAL BEFORE BRINGING COMBUSTIBLE BUILDING MATERIALS OR PORTABLE UNITS ON-SITE.

6. PIV'S, DDC'S, AND FDC'S SHALL BE UNOBSTRUCTED AND VISIBLE FROM THE FIRE LANE OR PUBLIC ROAD. THEY SHALL BE PAINTED OSHA SAFETY RED.

## SCOPE OF WORK

4

1. COMPLETE DEMOLITION AND CLEARING OF SITE (INCLUDING BUT NOT LIMITED TO BUILDINGS AND PORTABLES, SITE STRUCTURES, FENCING, SITE WORK).
2. DEMOLITION SHALL INCLUDE ANY AND ALL ASSOCIATED FOOTINGS AND FOUNDATIONS.
3. SEAL COAT EXISTING PARKING LOT (2), RE-STRIPING OF PARKING STALLS, ADDITION OF WHEEL STOPS, SIGNAGE, AND ADA COMPLIANT STALLS.
4. NEW VARSITY SOFTBALL FIELD AND MULTI-PURPOSE FIEND WITH ASSOCIATED BACKSTOP FENCING, DUGOUTS (2), BATTING CAGE/BULL PEN ENCLOSURES (2).
5. NEW CUSTOM ALUMINUM 3-ROW BLEACHER AND ASSOCIATED STRUCTURAL CONCRETE PAD.
6. 5 SPORTS LIGHTING MUSCO POLES.
7. SCOREBOARD WITH PC APPROVED STRUCTURE.
8. SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO FENCING, SPORTS NETTING, SITE UTILITIES, HARDSCAPE AND LANDSCAPE, CONCRETE RETAINING CURB/WALL.
9. (2) 12'X40' MODULAR BUILDINGS ON PERMANENT CONCRETE FOUNDATIONS, (PROCUREMENT OF BUILDING BY OWNER, CONTRACTOR RESPONSIBLE FOR ALL REMAINING SCOPE INCLUDING INSTALLATION).

3

**BUILDING CODE ANALYSIS**

| BUILDING DESIGNATION | OCCUPANCY CLASSIFICATION (CHAP. 3) | ACTUAL BUILDING FLOOR AREA (SQ FEET) | OCCUPANCY SEPARATION (CBC TABLE 508.4) | TYPE OF CONSTRUCTION (CBC CHAP.6) | AUTOMATIC FIRE SPRINKLER | ALLOWABLE BLDG HEIGHT (FEET) (CBC TABLE 504.3) | ALLOWABLE #OF STORIES (FEET) (CBC TABLE 504.4) | ALLOWABLE BUILDING AREA CALCULATION (PER TYPE OF CONSTRUCTION) (CBC TABLE 506.2) |
|---|---|---|---|---|---|---|---|---|
| BUILDING 1000 | S-1, S-2, B | 960 SF | N/A | V-B (CATEGORY I & II) | NO | OCC: S-1 (NS) 55'-00 | OCC: S-1 (NS) 2 STORIES | TYPE: V-B(NS) OCC:S-1=9,000 SF ALLOWED |
| | | | | | | ACTUAL BLDG HT (FEET) | ACTUAL # OF STORIES | ACTUAL AREA IN SF |
| | | | | | | 10'-0" OK | 1 (OK) | 966 SF |

BUILDING CODE ANALYSIS

**DSA** 810

## FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

| PROJECT INFORMATION | |
|---|---|
| School District/Owner: | Long Beach Unified School District |
| Project Name/School: | Poly High School Improvements |
| Project Address: | 1454 Long Beach Blvd, Long Beach, CA 90813 |

| FIRE & LIFE SAFETY INFORMATION | | | |
|---|---|---|---|
| 1. | Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)* | Yes ☑ | No ☐ |
| 2. | Was the fire hydrant water flow test performed as part of this LFA review? | Yes ☐ | No ☑ |
| 3. | Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)* | Yes ☐ | No ☑ |
| | Refer to the following website for FHSZ locations: Fire Hazard Severity Zones in State Responsibility Area | Moderate ☐ High ☐ | Very High ☐ |
| | Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)* | | WIFA ☐ |

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES Page 1 of 4 STATE OF CALIFORNIA

DSA 810
**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

| CONDITION MEANS AND METHODS RESOLUTION | | ALTERNATE ACCEPTED | | | |
|---|---|---|---|---|---|
| | | Yes | No | N/A | N/R |
| 4. | Emergency vehicle access roadways do not meet CFC requirements. | | | | |
| 4a. | **Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property. | | | | |
| 5. | **Fire Hydrants:** Number and spacing does not meet CFC requirements. | | | | |
| 5a. | **Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property. | | | | |
| 6. | **Fire Hydrants:** Water flow and pressure are less than CFC minimum. | | | | |
| 6a. | **Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property. | | | | |
| 7. | Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. | | | | |
| 7a. | **Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property. | | | | |

**School District Acceptance of Acceptable Design Alternates**

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: 11/21/25

| LOCAL FIRE AUTHORITY (LFA) INFORMATION | |
|---|---|
| LFA Agency Name: | |
| LFA Review Official: | |
| Title: | Work Phone: |
| Work Email: | |

LFA Reviewer's Signature: _____ Date: _____

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES Page 2 of 4 STATE OF CALIFORNIA

2

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **9216-654**
PTN No.: **64725-585**
**Facilities Management**

Stamps

LICENSED ARCHITECT
Yong Tao
No. C-31162
REN. 10-31-2027
STATE OF CALIFORNIA

Architect

**PBK**
**ARCHITECT**
8163 ROCHESTER AVE.
SUITE 100
RANCHO CUCAMONGA, CA 91730
Tel: 909-987-0909
www.pbk.com

Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

JOB No.: 240469
SCALE: As indicated
PROJ MGR:
DATE: 11/21/25

Sheet Title

**FIRE ACCESS SITE PLAN**

Sheet No.

**G003**

## STRUCTURAL STEEL:

1. STRUCTURAL STEEL:
PROVIDE STRUCTURAL STEEL COMPLYING WITH THE FOLLOWING ASTM STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE:

| | | |
|---|---|---|
| A. | RECTANGULAR AND SQUARE HSS | ASTM A500, GRADE C (Fy=50ksi, Fu=62ksi) |
| B. | ROUND HSS | ASTM A500, GRADE C (Fy=46ksi, Fu=62ksi) |
| C. | PIPES | ASTM A53, GRADE B (Fy=35ksi, Fu=60ksi) |
| D. | ANGLES, CHANNELS, PLATES AND BARS | ASTM A36 (Fy=36ksi, Fu=58ksi), U.N.O. |
| E. | ANCHOR RODS | ASTM F1554, GRADE 36, U.N.O. |
| F. | HIGH STRENGTH BOLTS | ASTM F3125 (SNUG-TIGHTENED, U.N.O.) |
| G. | BOLTS AT OTHER APPLICATIONS | ASTM A307 |
| H | SHEAR STUDS | ASTM A29/A108, AWS D1.1 |
| I. | THREADED RODS | ASTM A36 |
| J. | NUTS | ASTM A563 |
| K. | WASHERS | ASTM F436 |

2. HIGH STRENGTH BOLTS, NUTS AND WASHERS:
   A. TYPE: PROVIDE HIGH STRENGTH BOLTS, NUTS, AND WASHERS COMPLYING WITH ASTM F3125, GRADE A325, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS SHALL BE BEARING WITH THREADS INCLUDED IN SHEAR PLANE (A325-N), UNLESS NOTED OTHERWISE. PROVIDE SLIP-CRITICAL HIGH STRENGTH BOLTS (A325-SC) FOR ALL CONNECTIONS THAT ARE PART OF SEISMIC LOAD RESISTANCE SYSTEMS (SFRS).
   B. INSTALLATION: INSTALL HIGH STRENGTH BOLTS COMPLYING WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" AND CBC SECTION 2204A.2.
   C. TIGHTENING: TIGHTEN A325-N BOLTS TO A SNUG TIGHT CONDITION. TIGHTEN A325-SC BOLTS FOLLOWING THE TURN-OF-NUT, CALIBRATED WRENCH, OR DIRECT TENSION INDICATOR METHOD.
3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL TO SEOR FOR REVIEW PRIOR TO FABRICATION. ALL STEEL FABRICATION AND ERECTION SHALL COMPLY WITH THE LATEST EDITION OF THE AISC.
4. THE CONTRACTOR SHALL ESTABLISH A MASTER SET OF TOP-OF-STEEL DRAWINGS FOR ALL AREAS OF THE BUILDING OR STRUCTURE FOR APPROVAL BY THE ARCHITECT BEFORE BEGINNING FABRICATION OF STRUCTURAL STEEL. THE CONTRACTOR'S MASTER SET OF TOP-OF-STEEL DRAWINGS SHALL BE SUBMITTED AT THE BEGINNING OF THE SHOP DRAWING SUBMITTAL PROCESS. THIS SET OF DRAWINGS SHALL SHOW ALL TOP-OF-STEEL ELEVATIONS, ALL EDGE OF STEEL INFORMATION FOR FLOOR AND ROOF LEVELS, AND ALL STEEL FRAMING DIMENSIONS AT FLOOR AND WALL OPENINGS.
5. DIAMETER OF BOLT HOLE SHALL BE 1/16" LARGER THAN THE BOLT'S DIAMETER, UNLESS NOTED OTHERWISE. WHERE OVERSIZED HOLES OCCUR, PROVIDE 3" SQUARE PLATE WASHERS UNDER NUTS UNLESS OTHERWISE NOTED. THICKNESS OF PLATE WASHER SHALL BE 0.375 TIMES THE DIAMETER OF ANCHOR BOLT.
6. PROVIDE BEVELED WASHERS ON SLOPING SURFACE OF CONNECTIONS FOR FULL BEARING.
7. ALL STEEL TO BE PAINTED SHALL BE PRIMED WITH ZINC OXIDE PRIMER EXCEPT WHERE ENCASED IN CONCRETE, MASONRY, OR SPRAYED-ON FIREPROOFING, UNLESS NOTED OTHERWISE ON THE DRAWINGS. PAINTING OF STRUCTURAL STEEL MEMBERS SHALL COMPLY WITH THE REQUIREMENTS CONTAINED IN AISC 360.
8. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED. STEEL MEMBERS SHALL BE SHORED WHEN PERMISSIBLE HOLES ARE CUT WITH A TORCH AFTER STEEL IS ERECTED. THE SHORES SHALL REMAIN IN PLACE UNTIL THE STEEL TEMPERATURE HAS RETURNED TO AIR TEMPERATURE.
9. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING STEEL ON THE JOB SITE FROM CORROSION.
10. WHERE WELDING TO EXISTING BEAMS ARE SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE ADEQUATE SHORING OF EXISTING BEAMS FOR LOSS OF STRENGTH DUE TO HEAT DURING WELDING.
11. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL MEET THE MINIMUM SPECIFICATIONS IN THE AISC CODE OF STANDARD PRACTICE CHAPTER 10 UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.
12. HOT-DIP GALVANIZE PER ASTM A123 OR A153 CLASS D FOR ALL STEEL EXPOSED TO WEATHER, UNLESS OTHERWISE NOTED.

## STRUCTURAL STEEL WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 AND AISC 360. ALL WELDING FOR THE SEISMIC FORCE RESISTING SYSTEM (SFRS) SHALL COMPLY WITH AWS D1.8 AND AISC 341.
2. WELDING SHALL BE DONE BY ELECTRIC ARC USING E70XX ELECTRODES UNLESS NOTED OTHERWISE. PROVIDE FILLER MATERIAL WITH CHARPY V-NOTCH TOUGHNESS OF 20 FT/LB AT -20 DEGREE FAHRENHEIT AT COMPLETE PENETRATION GROOVE WELD.
3. THE CONTRACTOR SHALL PROVIDE WELDING PROCEDURE SPECIFICATIONS AND DETAILED SEQUENCE OF WELDING FOR SEOR REVIEW PRIOR TO STARTING OF FABRICATION.
4. WELDS SHALL BE PRE-QUALIFIED IN COMPLIANCE WITH THE APPLICABLE WELDING STANDARD. WHERE NON PRE-QUALIFIED WELDS ARE SPECIFICALLY INDICATED, QUALIFICATION SHALL BE DONE BY TESTING AND QUALIFICATION PROCEDURE COMPLYING WITH THE APPLICABLE WELDING STANDARD.
5. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND APPROVED BY AN AWS AND DSA APPROVED CERTIFIED INSPECTOR. EACH WELDER AND INSPECTOR SHALL RETAIN A COPY OF WELDING PROCEDURE SPECIFICATIONS (WPS).
6. SPECIAL INSPECTIONS FOR ALL SHOP WELDING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP SHALL BE PERFORMED DURING FABRICATION.
7. USE MINIMUM SIZE OF WELDING COMPLYING WITH AISC 360 SECTION J2 AND TABLE J2.4 UNLESS A LARGER WELD IS INDICATED ON DRAWINGS.
8. WHERE LENGTH OF WELDING IS NOT SHOWN, IT SHALL BE FULL LENGTH OF JOINT. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS UNLESS OTHERWISE NOTED.
9. NO ATTEMPT IS MADE TO DIFFERENTIATE BETWEEN SHOP AND FIELD WELDED CONNECTIONS ON THE DRAWINGS.
10. ALL COMPLETE AND PARTIAL PENETRATION WELDS WHICH ARE EXPOSED TO VIEW SHALL BE GROUND SMOOTH AND FLUSH WITH FINISH SURFACE OF STEEL.
11. FINISH GROOVE PREPARATION THERMAL CUTS BY GRINDING.
12. DEMAND CRITICAL WELDS: WELDS DESIGNATED AS DEMAND CRITICAL SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN AWS D1.8 / D1.8M TABLE 6.1.

AWS D1.8 / D1.8M REQUIRES THAT ALL SEISMIC FORCE RESISTING SYSTEM (SFRS) WELDS TO BE MADE WITH FILLER METALS CLASSIFIED USING AWS A5 STANDARDS THAT ACHIEVE THE FOLLOWING MECHANICAL PROPERTIES.

| PROPERTY | CLASSIFICATION | |
|---|---|---|
| | 70 KSI (480 MPa) | 80 KSI (550 MPa) |
| YIELD STRENGTH, KSI (MPa) | 58 (400) MIN. | 68 (470) MIN. |
| TENSILE STRENGTH, KSI (MPa) | 70 (480) MIN. | 80 (550) MIN. |
| ELONGATION, % | 22 MIN. | 19 MIN. |
| CVN TOUGHNESS, ft-lb (J) | 20 (27) MIN. @ 0°F (-18°C)a. | |

a. FILLER METALS CLASSIFIED AS MEETING 20 ft-lb (27 J) MIN. AT A TEMPERATURE LOWER THAN 0°F (-18°C) ALSO MEET THIS REQUIREMENT.

IN ADDITION TO THE ABOVE REQUIREMENTS, AWS D1.8 / D1.8M REQUIRES, UNLESS OTHERWISE EXEMPTED FROM TESTING, THAT ALL DEMAND CRITICAL WELDS ARE TO BE MADE WITH FILLER METALS RECEIVING HEAT INPUT ENVELOPE TESTING THAT ACHIEVE THE FOLLOWING MECHANICAL PROPERTIES IN THE WELD METAL:

MECHANICAL PROPERTIES FOR DEMAND CRITICAL WELDS

| PROPERTY | CLASSIFICATION | |
|---|---|---|
| | 70 KSI (480 MPa) | 80 KSI (550 MPa) |
| YIELD STRENGTH, KSI (MPa) | 58 (400) MIN. | 68 (470) MIN. |
| TENSILE STRENGTH, KSI (MPa) | 70 (480) MIN. | 80 (550) MIN. |
| ELONGATION, % | 22 MIN. | 19 MIN. |
| CVN TOUGHNESS, ft-lb (J) | 40 (54) MIN. @ 70°F (20°C)b.,c. | |

b. FOR L.A.S.T. OF +50°F (+10°C). FOR L.A.S.T. LESS THAN =50°F (+10°C), SEE AWS D1.8 / D1.8M SUB-CLAUSE 6.2.2.

c. TESTS CONDUCTED IN ACCORDANCE WITH AWS D1.8 / D1.8M ANNEX A MEETING 40 ft-lb (54 J) MIN. AT A TEMPERATURE LOWER THAN +70°F (+20°C) ALSO MEET THIS REQUIREMENT.

## NON-SHRINK GROUT

1. PROVIDE NON-SHRINK, NON-METALLIC, NON-CORROSIVE PORTLAND CEMENT BASED MATERIAL CONFORMING WITH ALL PROPERTIES OF ASTM C1107 AND WITH A CURRENT CODE EVALUATION REPORT FROM ONE OF THE FOLLOWING MANUFACTURER'S:
   a. SIKA
   b. QUIKRETE
   c. BASF
   d. APPROVED EQUAL
2. GROUT SHALL COMPLY WITH THE FOLLOWING PERFORMANCE REQUIREMENTS:
   EXPANSION: 0.4 PERCENT MAXIMUM AT 28 DAYS. GROUT WILL EXHIBIT NO DISPLACEMENT WHEN TESTED IN ACCORDANCE WITH ASTM C157/C157M.
   SHRINKAGE: NONE (0.0 PERCENT SHRINKAGE AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C827 AND ASTM C 1090). THERE SHALL BE NO VOLUME SHRINKAGE OF GROUT IN THE PLASTIC OR HARDENED STAGE AT ANY TIME.
   COMPRESSIVE STRENGTH: 5,000 PSI MINIMUM AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C109/C109M.
3. SURFACE PREPARATION AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
4. ADD THE MINIMUM AMOUNT OF WATER NECESSARY TO PRODUCE THE DESIRED FLOW CHARACTERISTICS. DO NOT EXCEED A FLOW OF 20 SECONDS PER ASTM C939.
5. SUBMIT MANUFACTURER'S PRODUCT LITERATURE, WRITTEN INSTALLATION INSTRUCTIONS, AND MATERIAL SAFETY DATA SHEETS (MSDS) FOR REVIEW. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.
6. REPAIR UNUSED CORED OR DRILLED HOLES BY FILLING WITH NON-SHRINK GROUT AT CONCRETE AND MASONRY, FINISH SURFACE TO MATCH THE ADJACENT CONDITION.
7. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF 3/8" AGGREGATE.

## STRUCTURAL OBSERVATIONS:

1. THE STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH CBC SECTION 1704A.6. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE PROJECT INSPECTOR, DEPUTY INSPECTOR, SPECIAL INSPECTOR OR CITY INSPECTOR.
2. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE CONSTRUCTION THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER. CONSTRUCTION STAGES TO BE OBSERVED:
   A. FOUNDATIONS: AFTER PLACEMENT OF STEEL REINFORCEMENT PRIOR TO FINAL POUR
   B. PUNCH WALK: FINAL OBSERVATIONS OF COMPLETED STRUCTURE
3. STRUCTURAL OBSERVATION: ALL STRUCTURAL OBSERVATIONS SHALL BE DOCUMENTED USING THE OBSERVATION REPORT FORM, AND SHALL BE STAMPED AND SIGNED BY THE STRUCTURAL OBSERVER OF RECORD.
4. OBSERVED DEFICIENCIES: ANY OBSERVED DEFICIENCIES SHALL BE DESCRIBED ON THE FORM; THE OBSERVER SHALL ALSO INDICATE WHETHER A REOBSERVATION IS REQUIRED TO VERIFY CORRECTIVE ACTIONS HAVE BEEN PROPERLY TAKEN OR THAT THE CORRECTIVE ACTIONS ARE DEEMED VERIFIABLE BY THE SPECIAL INSPECTOR OR CITY INSPECTOR PRIOR TO INSPECTION APPROVAL.

## CAST-IN-PLACE CONCRETE:

1. ALL CONCRETE MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE ACI CODE AND PROJECT SPECIFICATIONS.
2. RETAIN AN APPROVED TESTING LABORATORY TO PREPARE CONCRETE MIX DESIGN ACCORDING TO GOVERNING CODE AND THE CONSTRUCTION DOCUMENTS. ALL CONCRETE MIXES SHALL BE STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED.
4. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318, LATEST ADOPTED EDITION, AND PROJECT SPECIFICATIONS.
5. PORTLAND CEMENT SHALL BE TYPE II UNLESS OTHERWISE NOTED.
6. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 15% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT.
7. MAXIMUM RATIO OF WATER TO CEMENTITIOUS MATERIALS, BY WEIGHT, SHALL BE 0.45 UNLESS OTHERWISE NOTED. USE MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
8. SLUMP SHALL CONFORM TO ACI 301, CHAPTER 4.
9. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) HARD ROCK TYPE UNLESS OTHERWISE NOTED AS LIGHTWEIGHT CONCRETE (115 PCF MAX.).
10. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.
11. MAXIMUM AGGREGATES SIZE SHALL CONFORM TO THE FOLLOWINGS.
    A. FOOTING, GRADE BEAMS AND RETAINING WALLS — 1"
    B. SLAB ON GRADE — 3/4"
12. ALL CONSTRUCTION JOINTS SHALL BE KEYED, ROUGHENED TO 1/4" AMPLITUDE, THOROUGHLY CLEANED, AND WETTED WITH NO STANDING WATER.
13. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATION OF ALL CONSTRUCTION JOINTS TO THE SEOR FOR REVIEW AT LEAST 14 DAYS PRIOR TO PLACING OF CONCRETE. JOINTS SHALL BE LOCATED TO MINIMIZE EFFECTS OF SHRINKAGE AS WELL AS PLACED AT POINTS OF LOW STRESS.
14. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
    A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH — 3"
    B. CONCRETE EXPOSED TO EARTH OR WEATHER:
    * #6 THROUGH #18 REBAR — 2"
    * #5 REBAR, W31 OR D31 WIRE, AND SMALLER — 1 1/2"
    C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
    * SLABS, WALLS AND JOISTS (#11 REBAR AND SMALLER) — 3/4"
    * BEAMS AND COLUMNS — 1 1/2"
    D. SLABS ON GRADE — MID-DEPTH
15. ALL NEW CONCRETE AND NON-SHRINK GROUT PLACED AGAINST HARDENED CONCRETE SHALL BE PREPARED PER THE FOLLOWING PROCEDURE:
    A. ROUGHEN HARDEND SURFACE TO AN AMPLITUDE OF 1/4" WITH BUSH HAMMER, SAND BLASTING, OR OTHER APPROVED METHOD.
    B. CLEAN SURFACES OF DUST AND DEBRIS USING CLEAN COMPRESSED AIR AND WATER.
    C. SURFACE SHALL BE WETTED AND STANDING WATER REMOVED.
    D. REFER TO OTHER NOTES FOR DUST CONTROL DURING CONSTRUCTION
16. CURING COMPOUND USED ON CONCRETE SHALL BE REVIEWED BY THE SEOR.
17. BONDING AGENT SHALL BE CHEMREX CONCRESIVE LIQUID LPL, OR SIKA ARMATEC 110 EPOCEM, OR APPROVED EQUAL AND SHALL BE APPLIED FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS.
18. ALL CRACKS WIDER THAN 1/64" IN NEW CONCRETE APPEARING WITHIN 6 MONTHS OF CONCRETE PLACEMENT SHALL BE REPAIRED USING EPOXY ADHESIVE INJECTION BY THE CONTRACTOR AT NO COST TO THE OWNER.
19. PIPES, DUCTS OR CONDUITS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS. SLEEVES SHALL BE PROVIDED FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS.
20. PRIOR TO POURING FOUNDATION CONCRETE, CONTRACTOR SHALL PERFORM AND SUBMIT FOR REVIEW A FINAL SURVEY OF ALL ANCHOR BOLTS FOR STRUCTURAL STEEL FRAMING TO DEMONSTRATE ANCHOR BOLTS HAVE BEEN PROPERLY PLACED AND NO COLUMN BASE PLATE MODIFICATIONS WILL BE REQUIRED.

## REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE NEW DEFORMED STEEL BARS CONFORMING TO ASTM A615-22, GRADE 60 UNLESS OTHERWISE NOTED. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706-22a W/ SUPPLEMENTARY REQUIREMENT S1, GRADE 60.
2. WELDED WIRE FABRICS (W.W.F), DEFORMED WIRE STIRRUPS AND SPIRAL REINFORCING SHALL CONFORM TO ASTM A1064, FY=65 KSI.
3. BARS SHALL BE CLEAN OF RUST, MUD, OIL, GREASE OR OTHER COATING MATERIALS LIKELY TO REDUCE BOND CAPACITY.
4. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE.
5. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITION SHOWN ON THE DRAWINGS.
6. SHOP DRAWINGS OF REINFORCING STEEL PLACEMENT SHALL BE PREPARED BY THE CONTRACTOR IN ACCORDANCE WITH ACI 315. SHOP DRAWINGS SHALL INCLUDE BAR SIZES, QUANTITIES, SPACING, CLEARANCES, SPLICE LOCATIONS, LAP LENGTH, AND CONCRETE COVERAGE AND SUBMITTED TO SEOR FOR REVIEW.
7. ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE.
8. ALL WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4 AND SHALL BE PERFORMED BY CERTIFIED WELDERS USING AWS A5.5 E80XX LOW HYDROGEN MOISTURE RESISTANT ELECTRODES UNLESS OTHERWISE NOTED.
9. ALL REINFORCEMENT BENDING SHALL BE PERFORMED COLD. BARS CAN ONLY BENT ONCE.
10. MECHANICAL SPLICES (COUPLERS) AND MECHANICAL REINFORCING HEADED END ANCHORS (TERMINATORS) MAY BE USED AT CONTRACTOR'S OPTION. MECHANICAL DEVICES SHALL HAVE A CURRENT ICC REPORT AND SUBMITTED TO SEOR FOR APPROVAL. SPECIAL INSPECTIONS DURING CONSTRUCTION IS REQUIRED.
11. ALL REINFORCING STEEL INTERRUPTED BY STRUCTURAL STEEL SHALL TERMINATE WITHIN 1" OF STEEL SURFACE WITH A 90° STANDARD HOOK UNLESS OTHERWISE NOTED.

## SOILS AND FOUNDATION:

1. GEOTECHNICAL INVESTIGATION REPORT:
   PREPARED BY: NV5
   ADDRESS: 15092 AVENUE OF SCIENCE, SUITE 200, SAN DIEGO, CA 92128
   GEOTECHNICAL REPORT PROJECT NUMBER: 1400125-0009800.00
   DATE: OCTOBER 8, 2025
2. SOIL BEARING CAPACITIES AND RECOMMENDATIONS:
   A. ALLOWABLE SOIL BEARING PRESSURES
      SPREAD FOOTINGS - 2,000 PSF
      CONTINUOUS FOOTINGS - 2,000 PSF
   B. LATERAL RESISTANCE:
      SHALLOW FOUNDATION:
      COEFFICIENT OF FRICTION = 0.25
      PASSIVE PRESSURE = 100 PCF EQUIVALENT FLUID PRESSURE

      PIER FOOTING:
      PASSIVE PRESSURE = 100 PCF EQUIVALENT FLUID PRESSURE, MAXIMUM 3,000 PSF

      THESE VALUES ARE ALLOWED TO BE INCREASED BY 1/3 FOR SHORT TERM SEISMIC AND WIND EFFECTS.
3. SITE SHALL BE PREPARED IN COMPLIANCE WITH THE SOILS REPORT, AND WITH COORDINATION OF CONTRACT DOCUMENTS. THE MOST CONSERVATIVE RECOMMENDATIONS SHALL GOVERN.
4. THE GEOTECHNICAL REPORT IN ITS ENTIRETY SHALL BE MADE AS PART OF THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND ENGINEER OF LOCATION OF EXISTING UTILITIES AND COMMENCE WORK ONLY AFTER WRITTEN APPROVAL FROM THE ARCHITECT.
6. ALL FOUNDATION EXCAVATION, FILLING, BACK FILLING, AND BUILDING PADS SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING NECESSARY TO SUPPORT CUT AND/OR FILL SECTIONS DURING EXCAVATION, AND FOR FORMING AND PLACEMENT OF CONCRETE.
7. BACK FILL AGAINST WALLS SHALL BE PLACED EVENLY AGAINST BOTH SIDES OF WALLS UNTIL THE LOWER GRADE IS REACHED.
8. ALL RETAINING WALLS HAVE BEEN DESIGNED AS A FREE DRAINING CONDITION. DESIGN FOR THE DRAINAGE SYSTEM SHALL BE BY OTHERS AND SHALL MEET THE REQUIREMENTS OF THE SOILS REPORT.
9. ANY DISTURBED SOIL SHOULD BE COMPACTED TO AT LEAST 90% OF THE MAXIMUM DENSITY BY ASTM TEST METHOD D1557.
10. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
11. EXCAVATION FOR BUILDING FOOTING SHALL BE TO A DEPTH OF 3 FEET BELOW BOTTOM OF PLANNED BUILDING FOOTING AND 1 FOOT LATERALLY ON EITHER SIDE FROM THE FOOTING EDGE OR 4 FEET WIDE, WHICHEVER IS GREATER PER GEOTECHNICAL REPORT SECTION 8.2.

## GENERAL:

1. ALL WORK SHALL CONFORM TO THE 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), ANY REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THE LATEST EDITION, INCLUDING SUPPLEMENTS, OF SPECIFICATIONS, CODES AND STANDARDS NOTED IN THE CONTRACT DOCUMENTS.
2. TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR NOTED OTHERWISE.
3. GENERAL CONTRACTORS SHALL VERIFY ALL GRADES, DIMENSIONS AND CONDITIONS AT THE JOB SITE WITH COMPLETE SET OF DRAWINGS PRIOR TO BIDDING AND COMMENCING CONSTRUCTION. THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
4. REFER TO PROJECT SPECIFICATIONS FOR PROJECT REQUIREMENTS. SPECIFICATIONS GOVERN OVER THE DRAWINGS IN CASE OF CONFLICTS. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
5. PERFORM CONSTRUCTION AND WORKMANSHIP INCLUDING ALL MATERIALS IN COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS, AND THE CALIFORNIA BUILDING CODE.
6. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMAN AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT TO BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT AND SHORING FOR THE STRUCTURE.
7. IN NO CASE SHALL DIMENSIONS BE SCALED FROM DRAWINGS AND/OR DETAILS. ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECTS AND THE ENGINEERS ATTENTION FOR CLARIFICATION PRIOR TO PROCEEDING. ANY WORK INSTALLED PRIOR TO AND/OR IN CONFLICT WITH SUCH CLARIFICATION SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL SUPERVISE, DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. THE SUPPORTING SERVICES BY THE STRUCTURAL ENGINEER, WHETHER PERFORMED PRIOR TO, DURING, OR AFTER CONSTRUCTION, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND PROJECT SPECIFICATIONS; BUT THEY DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSIDERED AS SUPERVISION OF CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA AND BE RESPONSIBLE TO SECURE THE WORK AREA DURING CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
10. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PREVENT DUST AND CONSTRUCTION DEBRIS FROM CONTAMINATING THE WORK AREA, INCLUDING, BUT NOT LIMITED TO, DAILY CLEANUP OF THE CONSTRUCTION AREA.
11. CUTTING, BORING, SAW-CUTTING OR DRILLING THROUGH THE NEW STRUCTURAL MEMBERS OTHER THAN THOSE DETAILED ON STRUCTURAL DRAWINGS SHALL NOT BE DONE WITHOUT THE STRUCTURAL ENGINEER'S AND DSA APPROVAL.
12. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION AND COORDINATION WITH OTHER DISCIPLINES DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK, INCLUDING THAT OF ALL SUB-TRADES.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON CONTRACT DRAWINGS OR NOT, AND TO PROTECT THEM FROM DAMAGE. REPAIR AND REPLACEMENT OF SAID WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
14. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A MINIMUM CLASS 1 INSPECTOR IS REQUIRED.
15. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
16. SUBMIT SHOP DRAWINGS AS REQUIRED PER PROJECT SPECIFICATIONS. SHOP DRAWINGS MUST BE SUBMITTED WITH A STAMP FROM THE GENERAL CONTRACTOR INDICATING THEIR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS.
17. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

## DESIGN CRITERIA:

DESIGN CONFORMS TO THE CALIFORNIA BUILDING CODE (CBC), 2022 EDITION

1. LIVE LOADS:
   A. ROOF: 20 PSF
2. DEAD LOADS:
   A. ROOF: 20 PSF
3. WIND ANALYSIS:
   BASIC WIND SPEED V =101 MPH
   ALLOWABLE STRESS DESIGN WIND SPEED, $V_{ASD}$ = 78.2 MPH
   RISK CATEGORY III
   WIND EXPOSURE CATEGORY C
4. SEISMIC ANALYSIS:
   EQUIVALENT LATERAL FORCE PROCEDURE
   SITE CLASS D
   SEISMIC DESIGN CATEGORY D
   RISK CATEGORY III
   REDUNDANCY FACTOR = 1.0
   SEISMIC DESIGN FACTORS:
   $I_e$ = 1.25
   $S_S$ = 1.86 g
   $S_1$ = 0.73 g
   $F_a$ = 1.2
   $F_V$ = 1.7
   $S_{DS}$ = 1.3 g
   $S_{D1}$ = 1.53 g

   SEISMIC FORCE RESISTING SYSTEM:
   A - STEEL ORDINARY MOMENT FRAME
      RESPONSE MODIFICATION FACTOR R = 3.5
      APPLICATION: DUGOUT
      SEISMIC RESPONSE COEFFICIENT $C_S$ = 0.464
      HORIZONTAL STRUCTURAL IRREGULARITIES: NONE
      VERTICAL STRUCTURAL IRREGULARITIES: NONE
      LOCATION OF SEISMIC BASE: GRADE LEVEL

   SEISMIC FORCE RESISTING SYSTEM:
   B - STEEL ORDINARY CANTILEVER COLUMN
      RESPONSE MODIFICATION FACTOR R = 1.25
      APPLICATION: BACKSTOP
      SEISMIC RESPONSE COEFFICIENT $C_S$ = 1.3
      HORIZONTAL STRUCTURAL IRREGULARITIES: NONE
      VERTICAL STRUCTURAL IRREGULARITIES: NONE
      LOCATION OF SEISMIC BASE: GRADE LEVEL

## STRUCTURAL SHEET INDEX:

| SHEET NUMBER: | SHEET NAME: |
|---|---|
| S0.1 | GENERAL NOTES |
| S0.2 | GENERAL NOTES |
| S1.1 | OVERALL SITE PLAN |
| S2.1 | FOUNDATION/ROOF PLAN |
| S4.1 | TYPICAL DETAILS |
| S4.2 | DETAILS |
| Total Structural Sheets: 6 | |

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585
Facilities Management

Stamps

REGISTERED PROFESSIONAL ENGINEER
MAJID KANI
No. 5072
EXP. 6-30-27
STRUCTURAL
STATE OF CALIFORNIA

Architect

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Project

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

JOB No.: 240469
SCALE: 12" = 1'-0"
PROJ MGR: Author
DATE: 06/24/25

Sheet Title

GENERAL NOTES

Sheet No.

S0.1

G F E D C B A

# ABBREVIATIONS:

**A**
A.B. ANCHOR BOLT
ABV ABOVE
ACI AMERICAN CONCRETE INSTITUTE
ADD'L ADDITIONAL
ADJ ADJACENT
AFF ABOVE FINISHED FLOOR
AFS ABOVE FINISH SURFACE
AGGR AGGREGATE
AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI AMERICAN IRON AND STEEL INSTITUTE
ALT ALTERNATE
APPRX APPROXIMATELY
ARCH ARCHITECTURAL
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS
AWS AMERICAN WELDING SOCIETY

**B**
BF BACK FACE
BFB BOTTOM OF FLANGE BRACE
BFF BELOW FINISH FLOOR
BLE BRACKET LEDGE ELEVATION
BLDG BUILDING
BLK BLOCK
BLKG BLOCKING
BM BEAM
BN BOUNDARY NAIL
BO BOTTOM OF
BOA BACK OF ANGLE
BOC BOTTOM OF CONCRETE
BOF BOTTOM OF FOOTING
BOS BOTTOM OF STEEL
BOT BOTTOM
BP BASE PLATE
BRCG BRACING
BRG BEARING
BRKT BRACKET
BLE BRICK LEDGE ELEVATION
BTWN BETWEEN

**C**
C CHANNEL
CANT CANTILEVER
CBC CALIFORNIA BUILDING CODE
CF CUBIC FOOT
CGS CENTROID OF TENDONS
CIP CAST IN PLACE
CJ CONTROL JOINT; CONSTRUCTION JOINT
CJP COMPLETE JOINT PENETRATION
CL CENTER LINE
CLG CEILING
CLR CLEAR
CMU CONCRETE MASONRY UNIT
COL COLUMN
COMP COMPRESSION
CONC CONCRETE
CONN CONNECTION
CONST CONSTRUCTION
CONT CONTINUOUS
CONTR CONTRACTOR
COR CORNER
CRSI CONCRETE REINFORCING STEEL INSTITUTE
CY CUBIC YARD

**D**
d PENNY NAIL
DBA DEFORMED BAR ANCHOR
DBL DOUBLE
DEPT DEPARTMENT
DET DETAIL
DF DOUGLAS FIR
DIA DIAMETER
DIAG DIAGONAL
DIM(S) DIMENSION(S)
DL DEAD LOAD
DN DOWN
DO DITTO (REPEAT)
DS DOWNSPOUT
DT DOUBLE TEE
DWG(S) DRAWING(S)
DWL(S) DOWEL(S)

**E**
EA EACH
EAO EDGE ANGLE OFFSET
EF EACH FACE
EJ EXPANSION JOINT
EL ELEVATION
ELEC ELECTRICAL
ENGR ENGINEER
EOD EDGE OF ROOF DECK
EOS EDGE OF FLOOR SLAB
EQ EQUAL
EQPT EQUIPMENT
EQUIV EQUIVALENT
EW EACHWAY
EXP EXPANSION
EXIST; (E) EXISTING
EXT EXTERIOR

**F**
FABR FABRICATOR
FD FLOOR DRAIN
FDN FOUNDATION
FF FINISHED FLOOR
FL FLOOR
FLG FLANGE
FN FIELD NAIL; FACE NAIL
FOC FACE OF CONCRETE
FOM FACE OF MASONRY
FOS FACE OF STUD
FOW FACE OF WALL
FP FULL PENETRATION; FIREPROOF
FRP FIBER REINFORCED POLYMER
FS FAR SIDE
FTG FOOTING

**G**
GA GAUGE
GALV GALVANIZED
GB GRADE BEAM
GC GENERAL CONTRACTOR
GLB GLU-LAM; GLUED LAMINATED BEAM
GR GRADE
GYP GYPSUM BOARD

**H**
HD HOLDOWN
HDR HEADER
HGR HANGER
HORIZ HORIZONTAL
HS HEADED STUD
HSA HEADED STUD ANCHOR
HSB HIGH STRENGTH BOLT
HT HEIGHT

**I**
IBC INTERNATIONAL BUILDING CODE
ID INSIDE DIAMETER
IN INCHES
INFO INFORMATION
INT INTERIOR
INTERM INTERMEDIATE
ISO ISOLATION
IT INVERTED TEE

**J**
JBE JOIST BEARING ELEVATION
JST JOIST
JT JOINT

**K**
KIP; K KIPS; 1000 POUNDS
KLF KIP PER LINEAR FOOT
KP KING POST
KSF KIP PER SQUARE FOOT
KSI KIP PER SQUARE INCH

**L**
L ANGLE OR LENGTH
LAT LATERAL
L.A.S.T. LOWEST ANTICIPATED SERVICE TEMPERATURE
LB POUND
LF LINEAL FOOT
LL LIVE LOAD
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LOC LOCATION
LONG LONGITUDINAL
LSH LONG SIDE HORIZONTAL
LSV LONG SIDE VERTICAL
LWC LIGHT WEIGHT CONCRETE

**M**
MAX MAXIMUM
MB MACHINE BOLT
MC MOMENT CONNECTION
MECH MECHANICAL
MEP MECHANICAL-ELECTRICAL-PLUMBING
MEZZ MEZZANINE
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MO MASONRY OPENING
MTL METAL
MTR MATERIAL

**N**
(N) NEW
NIC NOT IN CONTRACT
NO OR # NUMBER
NOM NOMINAL
NS NEAR SIDE
NTS NOT TO SCALE
NWC NORMAL WEIGHT CONCRETE

**O**
OC ON CENTER
OD OUTSIDE DIAMETER
OF OUTSIDE FACE
OH OPPOSITE HAND
OPNG OPENING
OPP OPPOSITE
ORTHO ORTHOGONAL
OWJ OPEN WEB JOIST

**P**
PC PILE CAP
PCC PRECAST CONCRETE
PCF POUNDS PER CUBIC FOOT
PCI PRECAST AND PRESTRESSED CONCRETE INSTITUTE
PE PROFESSIONAL ENGINEER
PEMB PRE-ENGINEERED METAL BUILDING
PENTR PENETRATION
PL PLATE
PLF POUNDS PER LINEAR FOOT
PLYWD PLYWOOD
PP PARTIAL PENETRATION
PREFAB PREFABRICATED
PRELIM PRELIMINARY
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PT PRESSURE TREATED

**Q**
QTY QUANTITY

**R**
R RADIUS
RAF RAISED ACCESS FLOOR
RBS REDUCED BEAM SECTION
RCP REINFORCED CONCRETE PIPE
RD ROOF DRAIN
REF REFERENCE
REINF REINFORCEMENT
REQD REQUIRED
REV REVERSE
RF ROOF
RND ROUND
RO ROUGH OPENING
RTU ROOF TOP UNIT

**S**
SAD SEE ARCHITECTURAL DRAWINGS
SC SLIP-CRITICAL
SCD SEE CIVIL DRAWINGS
SCH SCHEDULE(D)
SEP SEPARATION
SF SQUARE FOOT
SHT SHEET
SIM SIMILAR
SKW SKEW(ED)
SOG SLAB ON GRADE
SPA SPACE
SPECS SPECIFICATIONS
SPECD SPECIFIED
SQ SQUARE
SS STAINLESS STEEL
ST SNUG TIGHTENED
STAGG STAGGER(ED)
STD STANDARD
STIFF STIFFENER
STIR STIRRUPS
STL STEEL
STRUCT STRUCTURAL
SUSP SUSPENDED
SW SIDEWALK
SYM SYMMETRICAL

**T**
T TENSION
T&B TOP AND BOTTOM
T&G TONGUE AND GROOVE
TEMP TEMPORARY
THK THICKNESS
TN TOE NAIL
TO TOP OF
TOB TOP OF BEAM
TOC TOP OF CONCRETE
TOP TOP OF PIER ELEVATION
TOS TOP OF STEEL
TOSC TOP OF STRUCTURAL CONCRETE
TOW TOP OF WALL
TRANS TRANSVERSE
TSG TAPERED STEEL GIRDER
TYP TYPICAL

**U**
UNO UNLESS NOTED OTHERWISE
UTIL UTILITY

**V**
V SHEAR
VERT VERTICAL
VIF VERIFY IN FIELD

**W**
W WIDTH
W/ WITH
W/O WITHOUT
WB WIND BRACE
WD WOOD
WL WIND LOAD
WP WORK POINT
WPFG WATERPROOFING
WS WATERSTOP
WT WEIGHT
WWF WELDED WIRE FABRIC

**X;Y;Z**
X-STG EXTRA STRONG
XX-STG DOUBLE EXTRA STRONG

# POST-INSTALLED ANCHORAGE INTO CONCRETE:

1. ANCHORAGE SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS, AND SHALL COMPLY WITH ACI 318 CHAPTER 17 AND CBC.
2. ADHESIVE ANCHOR INSTALLERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE ACI-CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
3. THE CONTRACTOR SHALL PREPARE A WRITTEN PROCEDURE PRIOR TO CONSTRUCTION FOR AN INSTALLATION METHOD TO AVOID DRILLING INTO OR CONTACTING IN ANY WAY REINFORCING STEEL AND OTHER EMBEDDED ITEMS. APPROVED METHODS COULD INCLUDE PLASTIC MARKINGS FORMED INTO THE CONCRETE SURFACE, OR USE OF GROUND PENETRATING RADAR EQUIPMENT SUCH AS HILTI FERROSCAN PS300. ANCHORS SHALL CLEAR EXISTING REBAR BY 1" MINIMUM.
4. CONFORM WITH ICC RECOMMENDED VALUES FOR ANCHOR SPACING AND EDGE DISTANCE TO DEVELOP FULL (100%) ALLOWABLE TENSION/SHEAR LOADS LISTED IN ICC REPORTS. DO NOT USE REDUCED SPACING AND EDGE DISTANCE UNLESS SPECIFICALLY NOTED OTHERWISE BY THE DETAILS.
5. ANCHORS SHALL BE INSTALLED ACCORDING TO THE ANCHORING SYSTEM'S SPECIFICATIONS. DO NOT DAMAGE REINFORCING STEEL OR OTHER EMBEDDED ITEMS. FILL UNUSED HOLES WITH NON-SHRINK GROUT.
6. DRILLED HOLE SHALL BE CLEANED WITH A BRUSH AND CLEAN COMPRESSED AIR IN COMPLIANCE WITH ICC ESR REQUIREMENTS.
7. CONTRACTOR SHALL DETERMINE LOCATION OF EXISTING REINFORCING STEEL PRIOR TO DRILLING FOR ANCHORS, AND DRILL THE ANCHOR HOLES TO CLEAR THE REINFORCING STEEL PER THESE NOTES. NO REINFORCING STEEL SHALL BE NICKED, CUT OR DAMAGED IN ANY WAY. DAMAGED REINFORCING WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST. IF THE LOCATION OF ANCHORS MUST BE MOVED SLIGHTLY TO ACCOMMODATE THE LOCATION OF EXISTING REINFORCING STEEL, THE CONTRACTOR SHALL PREPARED A SLIGHTLY MODIFIED DESIGN OF THE ITEM TO BE ANCHORED AND SUBMIT TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THE MODIFIED DESIGN SUGGESTED BY THE CONTRACTOR SHALL INVOLVE THE ABSOLUTE MINIMUM RELOCATION OF ANCHORS TO MEET THE DETAILS AND REQUIREMENTS HEREIN, AND SHALL BE BASED ON A TEMPLATE BY THE CONTRACTOR WHICH ACCURATELY PORTRAYS THE POSITION OF THE ANCHORS.
8. WHILE ANCHORING STEEL MEMBERS AGAINST CONCRETE, PROVIDE LOCK-WASHER AND NUT AT EACH ANCHOR ROD.
9. EXPANSION BOLTS IN CRACKED (AND UNCRACKED CONCRETE)

| ACCEPTABLE PRODUCTS | ICC-ES EVALUATION REPORT |
|---|---|
| HILTI - KWIK BOLT TZ2 | ESR-4266 |
| SIMPSON - STRONG-BOLT 2 | ESR-3037 |
| AN EQUIVALENT PRODUCT ACCEPTABLE TO ENGINEER | |

HILTI KWIK BOLT TZ2

| BOLT DIAMETER (DIA.) | EFFECTIVE MIN. DEPTH (U.N.O.) | INSTALLATION TORQUE - CARBON STEEL (FT-LB) | INSTALLATION TORQUE - STAINLESS STEEL (FT-LB) |
|---|---|---|---|
| 3/8" | 2" | 30 | 30 |
| 1/2" | 3 1/4" | 50 | 40 |
| 5/8" | 4" | 40 | 60 |
| 3/4" | 4 3/4" | 110 | 125 |

ANCHORS MUST ATTAIN SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT.

SIMPSON STRONG-TIE STRONG-BOLT 2

| BOLT DIAMETER (DIA.) | EFFECTIVE MIN. DEPTH (U.N.O.) | INSTALLATION TORQUE - CARBON STEEL (FT-LB) | INSTALLATION TORQUE - STAINLESS STEEL (FT-LB) |
|---|---|---|---|
| 3/8" | 2 1/2" | 30 | 30 |
| 1/2" | 3 3/8" | 60 | 65 |
| 5/8" | 4 1/2" | 90 | 80 |
| 3/4" | 5" | 150 | 150 |

ANCHORS MUST ATTAIN SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT.

ADHESIVE ANCHOR SYSTEM

| ACCEPTABLE PRODUCTS | ICC-ES EVALUATION REPORT |
|---|---|
| HILTI HIT-RE 500 V3 | ESR-3814 |
| HILTI HIT-HY 200 V3 | ESR-4868 |
| SIMPSON SET-3G | ESR-4057 |
| AN EQUIVALENT PRODUCT ACCEPTABLE TO ENGINEER | |

| THREADED ROD DIAMETER (IN) | MIN. EMBEDMENT (IN) |
|---|---|
| 3/8 | 3 |
| 1/2 | 4 |
| 5/8 | 5 |
| 3/4 | 6 |
| 7/8 | 7 |
| 1 | 8 |
| 1 1/4 | 10 |

| REBAR SIZE | MIN. EMBEDMENT (IN) |
|---|---|
| #3 | 3 |
| #4 | 4 |
| #5 | 5 |
| #6 | 6 |
| #7 | 7 |
| #8 | 8 |

10. CONCRETE SCREW ANCHORS MAY BE HILTI KH-EZ (ICC ESR-3027), SIMPSON TITEN HD SCREW ANCHORS (ICC ESR-2713), RED HEAD TAPCON+ SCREW ANCHOR (ICC ESR-3699), OR AN EQUIVALENT PRODUCT ACCEPTABLE TO ENGINEER WITH APPROVAL REPORT PER IR A-5.
11. ALL BOLTS AND ANCHORS (INCLUDING NUTS AND WASHERS) EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.
12. THE EMBEDMENT DEPTH OF POST-INSTALLED ANCHORS SPECIFIED IN THE INDIVIDUAL DRAWING DETAILS SHALL GOVERN OVER THE MINIMUM EMBEDMENTS SHOWN IN THE TABLES ABOVE.
13. POST INSTALLED ANCHORS MUST BE TESTED IN ACCORDANCE TO THE FOLLOWING SECTIONS OF 2022 CBC :
    - TEST LOADS: SECTION 1910A.5.4. SEE NOTE 14
    - TEST FREQUENCY: SECTION 1910A.5.3
    - ACCEPTANCE CRITERIA: SECTION 1910A.5.5
    - TESTING PROCEDURE: SECTION 1910A.5.2
14. USE OF EPOXY ANCHORS AT ANY LOCATION NOT SHOWN ON THE DRAWINGS AND ANCHOR TENSION TEST LOADS SHALL BE SUBMITTED TO THE SEOR FOR REVIEW AND APPROVAL.

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Client
long beach unified school district
Long Beach Unified School District
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LBUSD No.: 9216-654
PTN No.: 64725-585
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Issue

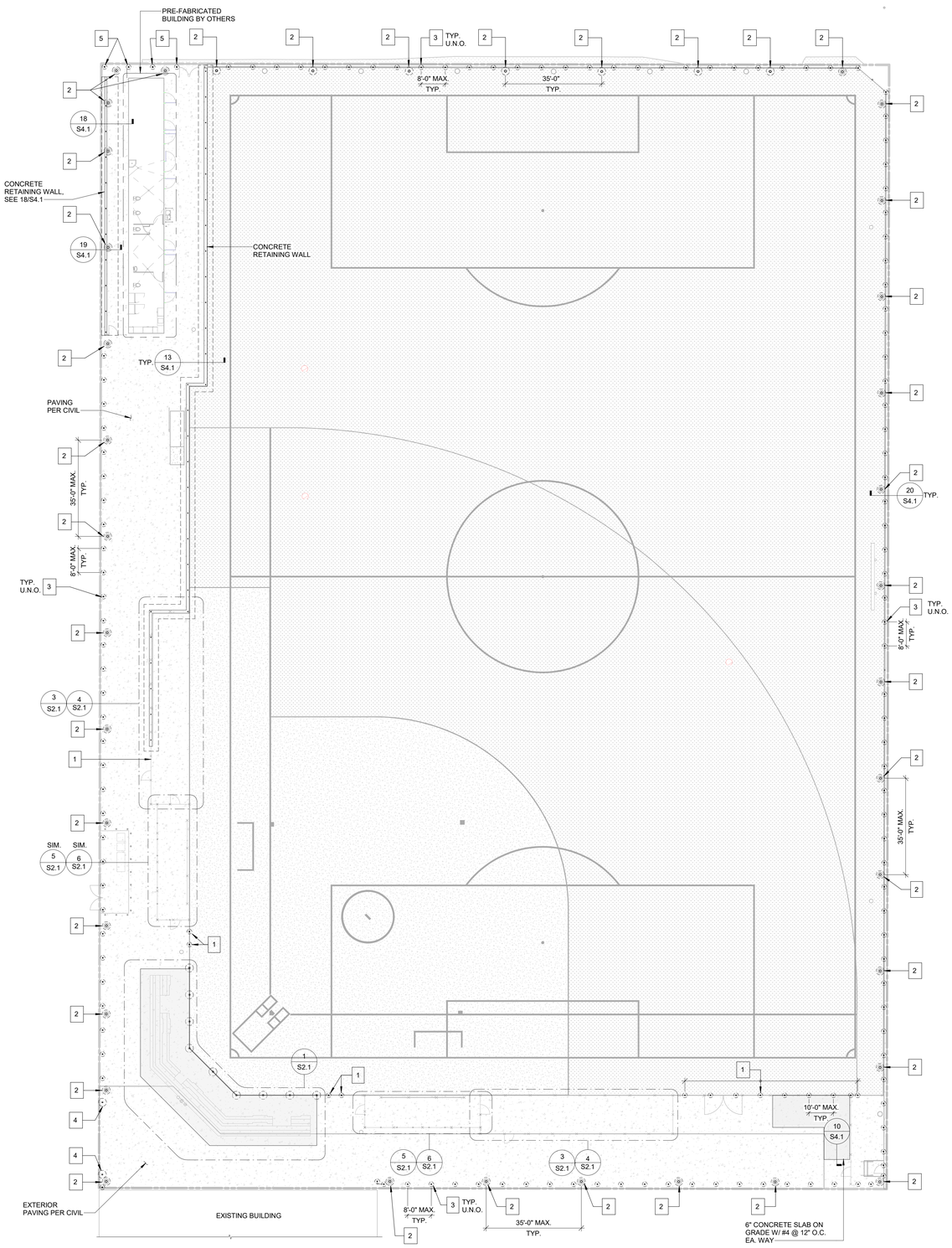
| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info
JOB No.: 240469
SCALE: 12" = 1'-0"
PROJ MGR: Author
DATE: 06/24/25

Sheet Title
GENERAL NOTES

Sheet No.
S0.2

G F E D C B A




1 OVERALL SITE PLAN
1/16" = 1'-0"

## PLAN NOTES

1. SEE SHEET S0.1 AND S0.2 FOR GENERAL NOTES.
2. CONTRACTOR SHALL VERIFY ALL FRAMING DIMENSIONS AGAINST ARCHITECTURAL DRAWINGS AND NOTIFY THE ARCHITECT AND PROJECT ENGINEER OF ANY DISCREPANCIES BEFORE STARTING THE WORK.
3. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL DIMENSIONS, HEIGHTS, CURBS, EXTERIOR SLABS, DRAINS, SUMPS, SWALES, RAILING, GUARDPOST, FINISH FLOOR ELEVATIONS, ETC.
4. THE SOILS ENGINEER OF RECORD SHALL ISSUE A FINAL REPORT STATING THE COMPLETED PAD, FOUNDATION, FINISH GRADING, DRAINAGE AND ASSOCIATED SITE WORK CONFORMS TO THE APPROVED PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT.
5. ALL EXPOSED STEEL MEMBERS AND CONNECTORS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED.

## KEY NOTES

1. INDICATES OUTFIELD CHAIN-LINK FENCE COLUMN AND FOOTING TYPE 7B PER SCHEDULE ON DETAIL 7/S4.1
2. INDICATES SPORTS NETTING COLUMN AND FOOTING TYPE 7F PER SCHEDULE ON DETAIL 7/S4.1
3. INDICATES PERIMETER FENCING COLUMN AND FOOTING TYPE 7E PER SCHEDULE ON DETAIL 7/S4.1
4. INDICATES ROLLING VEHICULAR GATE COLUMN AND FOOTING TYPE 7G PER SCHEDULE ON DETAIL 7/S4.1
5. INDICATES ENTRANCE SIGN COLUMN AND FOOTING TYPE 7H PER SCHEDULE ON DETAIL 7/S4.1

ALL PERIMETER FENCING COLUMNS AND FOOTINGS ARE TYPE 3 UNLESS NOTED OTHERWISE ON PLAN.

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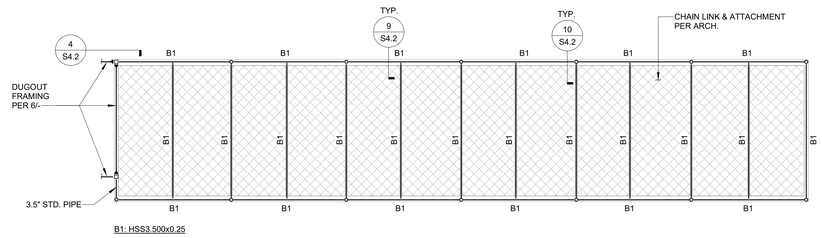
Sheet Title

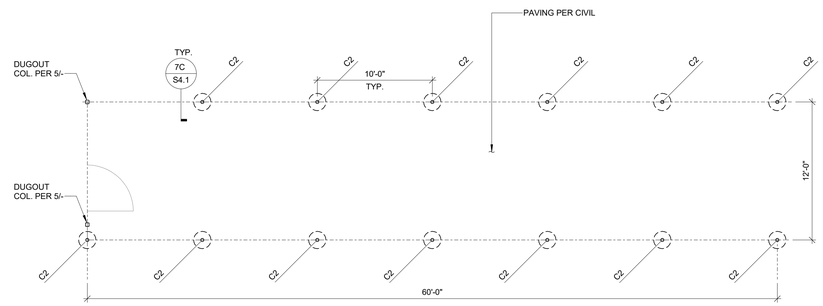
OVERALL SITE PLAN

Sheet No.

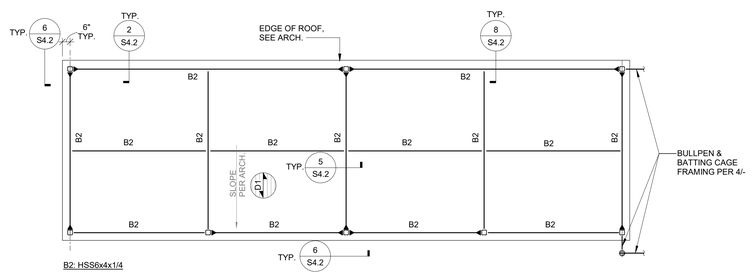
S1.1



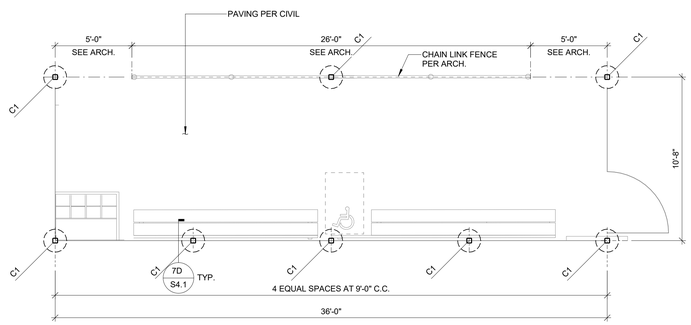

## 4 BULLPEN AND BATTING CAGE ROOF FRAMING PLAN
3/16" = 1'-0"



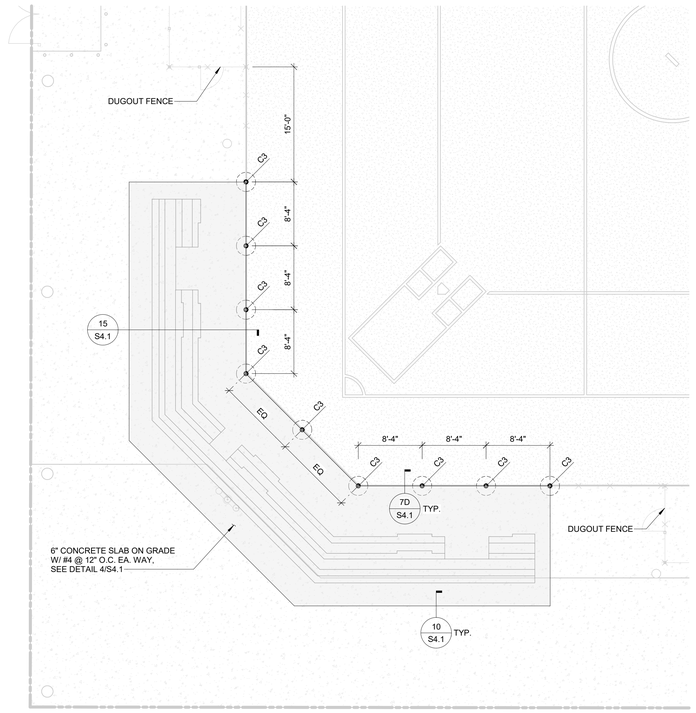

## 3 BULLPEN AND BATTING CAGE FOUNDATION PLAN
3/16" = 1'-0"




## 6 DUGOUT ROOF FRAMING PLAN
1/4" = 1'-0"




## 5 DUGOUT FOUNDATION PLAN
1/4" = 1'-0"




## 1 ENLARGE BACKSTOP AREA
N.T.S.

### PLAN NOTES

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5. ALL EXPOSED STEEL MEMBERS AND CONNECTORS SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED.

### LEGEND

- INDICATES CONCRETE FOOTING
- C1 — INDICATES TYPE OF STEEL COLUMN, SEE SCHEDULE
- INDICATES STEEL COLUMN
- D1 — INDICATES SPAN DIRECTION OF 1.5" DEEP x 18 GA. VERCO GALVANIZED PLB-36 METAL DECK (IAPMO ER-#0652), SEE 1/S4.2
- INDICATES MOMENT CONNECTION PER 6/ S4.2

### STEEL COLUMN SCHEDULE

| MARK | SIZE | REFERENCED DETAILS |
|---|---|---|
| C1 | HSS5x5x5/16 | 7C/ S4.1 |
| C2 | HSS3.500x0.25 | 7A/ S4.1 |
| C3 | HSS6.875x0.500 | 7D/ S4.1 |

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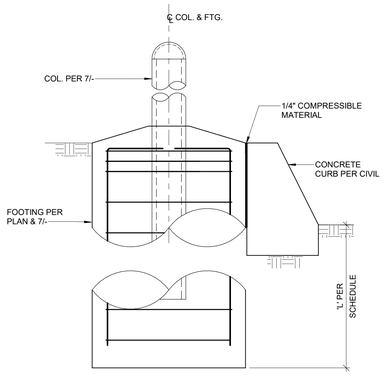
Sheet Title

**FOUNDATION/ROOF PLAN**

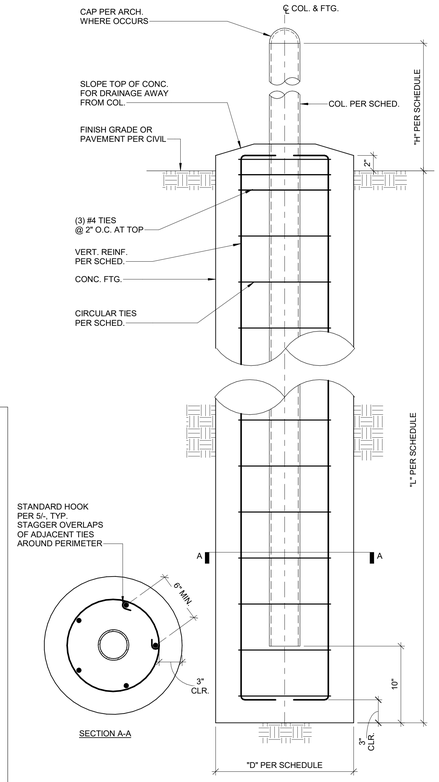
Sheet No.

**S2.1**

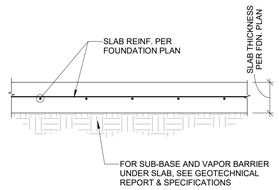



## 20 COLUMN FOOTING AT CIVIL CURB
N.T.S.

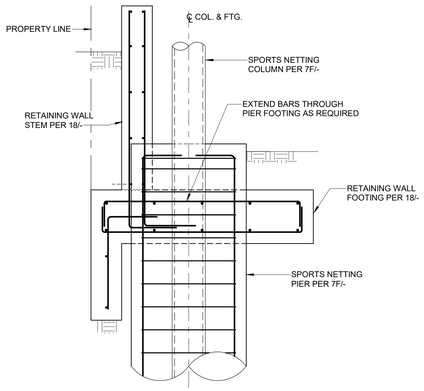
| PIER FOOTING SCHEDULE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TYPE | STEEL COLUMN | COLUMN MAX. HEIGHT "H" | PIER DIAMETER "D" | PIER EMBEDMENT "L" | VERTICAL REINF. | CIRCULAR TIES | FOOTING LOCATION | REF. ARCH. DETAIL |
| 7A | PER 3/S2.1 | 12'-0" | 1'-6" | 8'-0" | (5) #5 | #4 @ 8" O.C. | BULLPEN AND BATTING CAGE | 4/A013 |
| 7B | HSS2.500x0.25 | 10'-0" | 1'-6" | 6'-6" | (5) #5 | #4 @ 8" O.C. | OUTFIELD CHAIN LINK FENCE | 2/A015 |
| 7C | PER 5/S2.1 | 12'-0" | 1'-6" | 6'-0" | (5) #5 | #4 @ 8" O.C. | DUGOUT | 4/A013 |
| 7D | PER 1/S2.1 | 21'-0" | 2'-6" | 9'-0" | (7) #7 | #4 @ 8" O.C. | BACKSTOP | 14/A013 |
| 7E | PER MANUFACTURER | 10'-0" | 1'-6" | 8'-0" | (5) #5 | #4 @ 8" O.C. | PERIMETER FENCING | 6/A015 |
| 7F | HSS8.625x0.625 | 30'-0" | 2'-6" | 15'-0" | (7) #7 | #4 @ 8" O.C. | SPORTS NETTING | 14/A015 |
| 7G | (2) HSS4x4x3/8 | 12'-0" | 2'-6" | 9'-0" | (7) #7 | #4 @ 8" O.C. | ROLLING VEHICULAR GATE | 18/A015 |
| 7H | HSS4x4x1/4 | 10'-0" | 1'-6" | 8'-6" | (5) #5 | #4 @ 8" O.C. | ENTRANCE SIGN | 2/A014 |



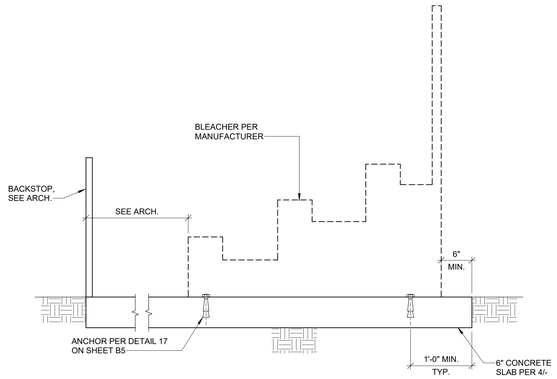

## 7 TYP. PIER FOOTING DETAIL & SCHEDULE
N.T.S.



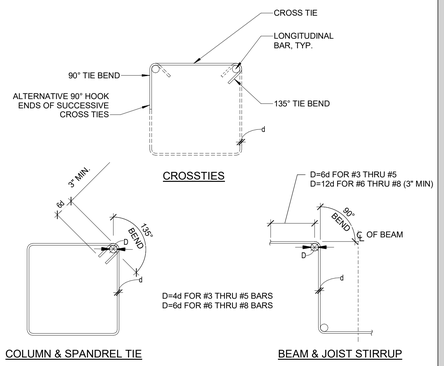

## 4 SLAB ON GRADE
N.T.S.



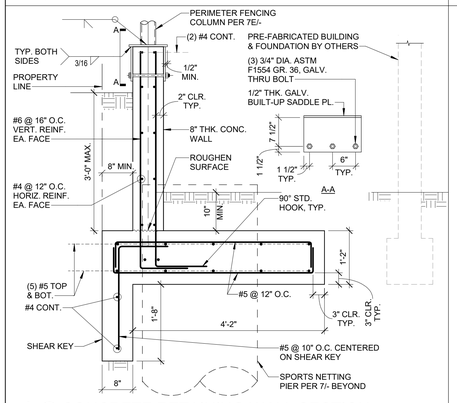

## 19 CONC. RETAINING WALL SECTION AT PIER FTG.
N.T.S.



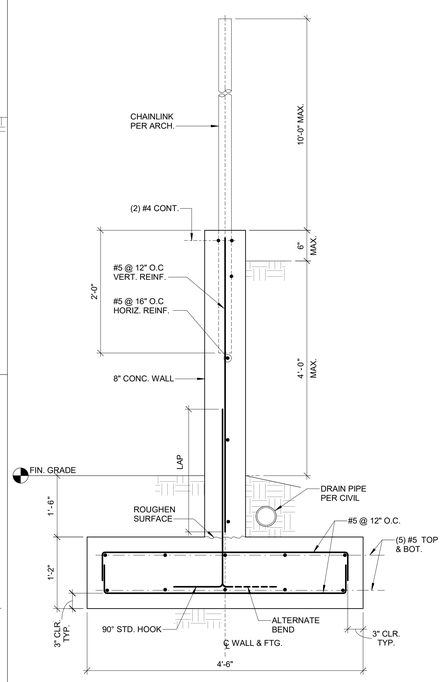

## 15 BLEACHER ANCHOR TO SLAB
N.T.S.



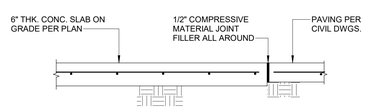

## 3 TYP. BENDS FOR HOOKS, TIES, & CROSSTIES
N.T.S.



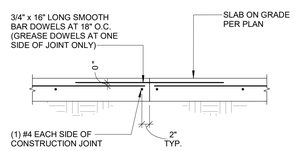

## 18 CONCRETE RETAINING WALL SECTION
N.T.S.



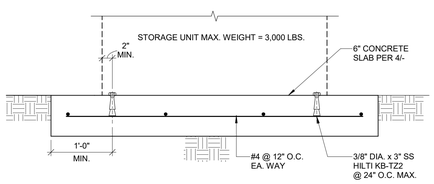

## 13 CONCRETE RETAINING WALL SECTION
N.T.S.




## 10 SLAB ON GRADE TO PAVING CONNECTION
N.T.S.




## 9 CONSTRUCTION JOINT AT SLAB ON GRADE
N.T.S.




## 17 STORAGE UNIT ANCHOR TO SLAB
N.T.S.

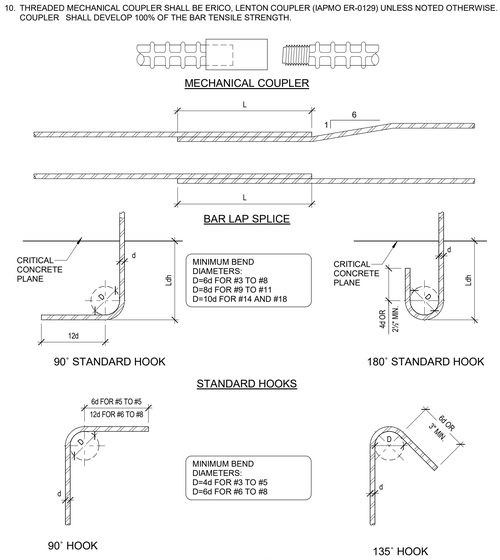
| HOOKED BAR DEVELOPMENT LENGTH (Ldh), INCHES | | | | |
|---|---|---|---|---|
| BAR SIZE | Fy (ksi) | f'c=3000 PSI | f'c=4000 PSI | f'c=5000 PSI |
| #3 | 60 | 8 | 7 | 7 |
| #4 | 60 | 12 | 11 | 11 |
| #5 | 60 | 16 | 15 | 15 |
| #6 | 60 | 21 | 20 | 19 |

| BAR DEVELOPMENT LENGTH (Ld), INCHES | | | | | | | |
|---|---|---|---|---|---|---|---|
| BAR SIZE | Fy (ksi) | f'c=3000 PSI | | f'c=4000 PSI | | f'c=5000 PSI | |
| | | TOP BARS | OTHER BARS | TOP BARS | OTHER BARS | TOP BARS | OTHER BARS |
| #3 | 60 | 22 | 17 | 19 | 15 | 17 | 13 |
| #4 | 60 | 29 | 22 | 25 | 19 | 23 | 17 |
| #5 | 60 | 36 | 28 | 31 | 24 | 28 | 22 |
| #6 | 60 | 43 | 33 | 37 | 29 | 34 | 26 |

| BAR LAP SPLICE LENGTH (L), INCHES | | | | | | | |
|---|---|---|---|---|---|---|---|
| BAR SIZE | Fy (ksi) | f'c=3000 PSI | | f'c=4000 PSI | | f'c=5000 PSI | |
| | | TOP BARS | OTHER BARS | TOP BARS | OTHER BARS | TOP BARS | OTHER BARS |
| #3 | 60 | 28 | 22 | 24 | 19 | 22 | 17 |
| #4 | 60 | 37 | 29 | 33 | 25 | 29 | 23 |
| #5 | 60 | 47 | 36 | 41 | 31 | 36 | 28 |
| #6 | 60 | 56 | 43 | 49 | 37 | 43 | 34 |

NOTES:

1. TABULATED VALUES ARE IN INCHES FOR NORMAL WEIGHT CONCRETE AND UNCOATED REINFORCING STEEL. FOR LIGHT WEIGHT CONCRETE INCREASE LENGTHS BY 30%. FOR EPOXY COATED BARS INCREASE LENGTHS BY 50%.
2. TABULATED LAP SPLICE LENGTHS ARE FOR CLASS B SPLICES AS DEFINED IN ACI 318. FOR CLASS A SPLICES REDUCE LENGTH BY 30%. CLASS A SPLICES MAY BE USED WHEN SPECIFICALLY CALLED ON DRAWINGS AND IF ONE HALF OR LESS OF THE TOTAL NUMBER OF BARS ARE SPLICED WITHIN THE REQUIRED LAP LENGTH.
3. BAR DEVELOPMENT LENGTHS AND SPLICE LENGTHS OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE INCREASED BY 20% FOR A 3-BAR BUNDLE AND 33% FOR A 4-BAR BUNDLE.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
5. FOR COMPRESSION LAP SPLICE LENGTH (ONLY WHERE INDICATED ON DRAWINGS) USE 30 BAR DIAMETER, NOT LESS THAN 12".
6. CLEAR COVER OVER REINFORCING SHALL BE AT LEAST 1 BAR DIAMETER, AND SPACING BETWEEN BARS BEING LAPPED OR SPLICED SHALL BE AT LEAST 2 BAR DIAMETERS.
7. MECHANICAL SPLICES MAY BE USED AT CONTRACTOR'S OPTION. MECHANICAL SPLICES SHALL BE TYPE 2 AS DEFINED IN ACI 318 AND SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH (Fy) OF THE SPLICED BAR.
8. WHERE MECHANICAL SPLICES ARE USED, STAGGER ADJACENT SPLICES BY 24" OC.
9. THE SMALLER BAR SPLICE LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS.
10. THREADED MECHANICAL COUPLER SHALL BE ERICO, LENTON COUPLER (IAPMO ER-0129) UNLESS NOTED OTHERWISE. COUPLER SHALL DEVELOP 100% OF THE BAR TENSILE STRENGTH.




## 5 TYP. REINF. LAP SPLICE & DEVELOPMENT LENGTH
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POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

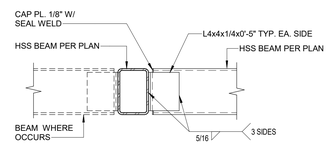
JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 06/24/25

Sheet Title

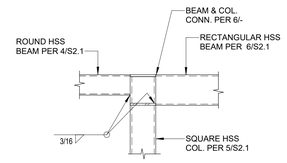
TYPICAL DETAILS

Sheet No.

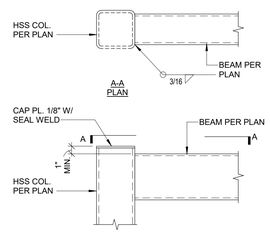
S4.1



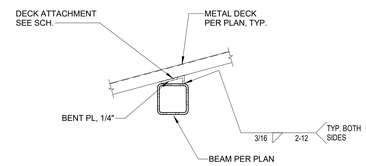

8 TYP. HSS BEAM TO HSS BEAM
N.T.S.



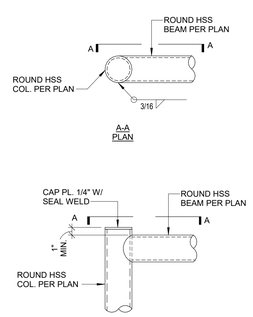

4 HSS BEAM TO FRAME CONNECTION
N.T.S.



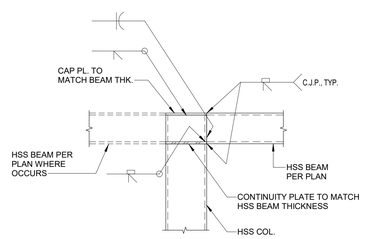

7 TYP. HSS BEAM TO HSS COLUMN CONN.
N.T.S.




3 TYP. ATTACHMENT OF SLOPING METAL DECK
N.T.S.

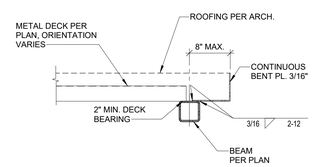



10 TYP. HSS BEAM TO HSS COLUMN CONN.
N.T.S.

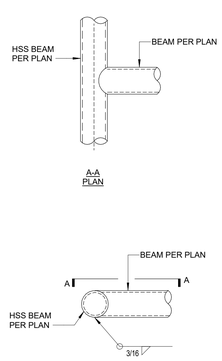



NOTE:
1. ALL WELDS SHALL BE DEMAND CRITICAL PER S0.1, "STRUCTURAL STEEL WELDING", NOTE 12.

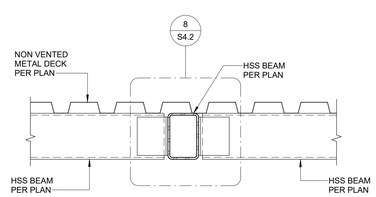
6 TYP. HSS BEAM TO HSS COLUMN FIXED CONN.
N.T.S.




2 EDGE OF ROOF METAL DECK
N.T.S.




9 HSS BEAM TO HSS BEAM CONN.
N.T.S.



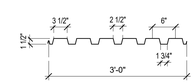

5 TYP. HSS BEAM TO HSS BEAM
N.T.S.

## METAL DECK CONNECTION SCHEDULE

| METAL DECK TYPE | EACH LOW CORRUGATION PERP. TO SUPPORT | | ALL SUPPORTS PARALLEL TO CORRUGATION | | SIDE LAP | |
|---|---|---|---|---|---|---|
| | SIZE AND TYPE | LOCATION | SIZE AND TYPE | SPACING | SIZE AND TYPE | SPACING |
| PLB-36 | 3/4" VISIBLE DIA. | EACH BOTTOM FLUTE | 3/4" VISIBLE DIA. | 12" | VSC2 (PUNCHLOK) | 24" |

VERCO PLB 36

20 GA.
I (IN.$^4$/FT.) = 0.231
+S (IN.$^3$/FT.) = 0.23
-S (IN.$^3$/FT.) = 0.237




NOTES:

1. METAL DECK SHALL BE GALVANIZED G90 AND COMPLY WITH ASTM A653 DESIGNATION SS GRADE 50 OR ASTM A924.
2. SEE SCHEDULE FOR TYPICAL METAL DECK CONNECTIONS.
3. MINIMUM BEARING OF METAL DECK SHALL BE 2" UNLESS NOTED OTHERWISE.
4. METAL DECK PANELS SHALL BE AT LEAST THREE-SPAN CONTINUOUS WHERE POSSIBLE.
5. SUPPORTS SHALL BE PROVIDED AT ALL EDGES OF OPENINGS IN METAL DECK.
6. SHEAR STUD CONNECTORS, IN COMPOSITE DECK WHERE OCCURS, MAY BE SUBSTITUTED FOR WELDS ON A ONE TO ONE BASIS.

1 METAL DECK PROPERTIES & CONN.
N.T.S.

G F E D C B A

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **9216-654**
PTN No.: **64725-585**
**Facilities Management**

Stamps

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**DETAILS**

Sheet No.

**S4.2**

# ELECTRICAL NOTES & SYMBOL LEGEND

SYMBOLS SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS

## MEP COMPONENT ANCHORAGE NOTES

1. ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:
   - A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
   - B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
   - C. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVETHE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
2. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BEPOSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGNCOMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALLHAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:
   - A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   - B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
3. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERALRESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## UL LISTINGS NOTE

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY.

ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

## DEVICE LOCATION NOTE

THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TOINSTALLATIONS. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED INWALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

## GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK, AND SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, CEC, ALL STATE AND LOCAL CODES AND AMENDMENT
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS AND ADDENDA (DRAWINGS AND SPECIFICATIONS.) HE SHALL CHECK THE CONTRACT DOCUMENTS OF THE OTHER TRADES AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM COMPLETING ALL RESPONSIBLE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.
4. ALL ELECTRICAL WORK REFERENCED HEREIN SHALL BE COORDINATED WITH OTHER TRADES AND SITE CONDITIONS. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING BID TIME FOR CLARIFICATION. ANY SUCH CONFLICTS NOT CLARIFIED PRIOR TO BID SHALL BE SUBJECT TO THE INTERPRETATION OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS, BRANCH CIRCUITS, OR SIGNAL AND COMMUNICATIONS SYSTEMS BEING DISCONNECTED TO MAINTAIN SYSTEMS IN OPERATION.
6. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE OWNER AND ENGINEER 14 DAYS PRIOR TO THE OUTAGE, AND OVERTIME PAY SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SWITCHBOARDS OR PANEL BOARDS SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.
7. AFTER ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
8. FURNISH A ONE-YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF PUNCH LIST COMPLETION.
9. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.
10. THE EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, GRADE BEAMS, FLOORS, OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE STRUCTURAL ENGINEER. PERFORM CORING, SAW CUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR, OR CEILING. THE EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE UL APPROVED.
11. FINAL CONNECTIONS TO VIBRATING EQUIPMENT AND AT SEISMIC SEPARATIONS SHALL BE FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS, AND LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS.
12. EQUIPMENT OUTLETS, LIGHTING FIXTURES, CONDUIT, WIRE, AND CONNECTION METHODS IN HVAC AIR PLENUMS SHALL BE APPROVED FOR USE IN PLENUMS AND SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE.
13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED WALLS, OR 24" MINIMUM BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.
15. LOCATE ELECTRICAL EQUIPMENT AND BOXES IN ACCESSIBLE CEILING SPACE OR PROVIDE AN ACCESS PANEL FOR INACCESSIBLE CEILING SYSTEMS. ACCESS DOORS SHALL BE A MINIMUM DIMENSION OF 24" X 24". ACCESS DOOR LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.
17. WHENEVER A DISCREPANCY OF ANY SYSTEM AND/OR EQUIPMENT ARISES ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.
18. STRAIGHT FEEDER BRANCH CIRCUIT AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS.
19. PANEL SCHEDULES SHALL BE REVISED TO REFLECT FINAL ROOM NAMES AND NUMBERS USING THE OWNER'S ROOM NAMES AND NUMBERS DESIGNATIONS. CONTRACTOR TO PROVIDE FINAL PANEL SCHEDULE TO EEOR AT COMPLETION OF PROJECT.
20. WHERE OUTLETS OCCUR AT TACKABLE WALL PANELS OR OTHER WALL FINISHES, PROVIDE EXTENSION RINGS AS REQUIRED SO THAT NO SPACE WILL EXIST BETWEEN DEVICE PLATE AND BACKBOX PER CALIFORNIA ELECTRICAL CODE 314.20. SEE ARCHITECTURAL ELEVATIONS FOR WALL FINISHES AND LOCATIONS.
21. COORDINATE LOCATIONS OF ALL SEISMIC SEPARATIONS.
22. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF ALL LOW VOLTAGE / TECHNOLOGY SYSTEMS SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. CABLING CONTRACTOR SHALL COORDINATE ALL 120V POWER REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR FOR ALL EQUIPMENT.
23. ALL AC POWER CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM TECHNOLOGY LOW VOLTAGE CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.
24. CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.
25. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.
26. ALL CONDUCTORS SHALL BE UL LISTED, COPPER #12 MINIMUM SIZE, TYPE THHN/THWN THERMOPLASTIC, 600 VOLT, 75 DEGREES CELSIUS WET AND 90 DEGREES CELSIUS DRY, UNLESS NOTED OTHERWISE.
27. ALL CABLING SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH MAXIMUM 40% CABLE FILL. MINIMUM CONDUIT SIZE SHALL BE 3/4" INTERIOR & 1" EXTERIOR.
28. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE ACCEPTED.
29. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
30. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT.
31. CIRCUITING:
   - A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR"OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
   - B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANELSCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
   - C. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS. HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
   - D. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
32. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
33. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
34. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
35. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
36. CONTRACTOR TO REFER TO ARCHITECTURAL PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
37. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS:
   - A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS.
   - B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGN, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING.
   - C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE.
   - D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING.
   - E. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RAGED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT. RACEWAY, CABLE ASSEMBLIES, BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING THE CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN.
38. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.

## ELECTRICAL ABBREVIATIONS

| ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| A OR AMP | AMPERES | LV | LOW VOLTAGE |
| ABV | ABOVE | MAX | MAXIMUM |
| AFF | ABOVE FINISHED FLOOR | MCA | MINIMUM CIRCUIT AMPS |
| AFG | ABOVE FINISH GRADE | MCC | MOTOR CONTROL CENTER |
| AIC | AMPERE INTERRUPTING CAPACITY | MFR | MANUFACTURER |
| AL | ALUMINUM | MH | MANHOLE |
| AS | DISCONNECT SWITCH SIZE RATING | MOCP | MAXIMUM OVERCURRENT PROTECTION |
| ATS | AUTOMATIC TRANSFER SWITCH | MTD | MOUNTED |
| AUX | AUXILIARY | MTG | MOUNTING |
| AWG | AMERICAN WIRE GAUGE | MV | MEDIUM VOLTAGE |
| B.S. | BARE STRANDED | NAC | NOTIFICATION APPLIANCE CIRCUIT |
| BKBD | BACKBOARD | NC | NORMALLY CLOSED |
| BKR | BREAKER | NEC | NATIONAL ELECTRICAL CODE |
| BLDG | BUILDING | NF | NON-FUSED |
| C | CONDUIT | NIC | NOT IN CONTRACT |
| C.O. | CONDUIT ONLY WITH PULL WIRE | NO. | NUMBER |
| CB | CIRCUIT BREAKER | OC | ON CENTER |
| CKT | CIRCUIT | OD | OUTSIDE DIAMETER |
| CL | CENTER LINE | PB | PULL BOX |
| CLG. | CEILING | PC | PHOTOCELL |
| COL | COLUMN | PH OR Ø | PHASE |
| CU | COPPER | PIV | POST INDICATING VALVE |
| DIS | DISCONNECT | PNL | PANEL |
| DP | DISTRIBUTION PANEL | POC | POINT OF CONNECTION |
| DWG | DRAWING | PRI. | PRIMARY |
| EA | EACH | PVC | POLY-VINYL CHLORIDE |
| ELEC. | ELECTRICAL | PWR | POWER |
| EMH | ELECTRICAL MANHOLE | REC/RECEPT | RECEPTACLE |
| EMT | ELECTRICAL METALLIC TUBING | REQ'D | REQUIRED |
| EPO | EMERGENCY POWER OFF | RGS | RIGID GALVANIZED STEEL |
| EQ | EQUIPMENT | RPBP | REDUCED PRESSURE BACK FLOW PREVENTER |
| FA | FIRE ALARM | | |
| FACP | FIRE ALARM CONTROL PANEL | SF | SQUARE FEET |
| FATC | FIRE ALARM TERMINAL CABINET | SP | SPARE |
| FF | FINISHED FLOOR | SPECS | SPECIFICATIONS |
| FLA | FULL LOAD AMPS | STD | STANDARD |
| FO | FIBER OBTIC | SW | SWITCH |
| FT | FEET | SWBD | SWITCHBOARD |
| GFI | GROUND FAULT INTERRUPTER | TB | TERMINAL BLOCK |
| GFR | GROUND FAULT RELAY | TEL./TELE | TELEPHONE |
| GND | GROUND | TPS | TWISTED SHIELDED PAIR |
| HP | HORSEPOWER | TRANSF/XFMR | TRANSFORMER |
| HTR | HEATER | TS | TAMPER SWITCH |
| HV | HIGH VOLTAGE | TYP | TYPICAL |
| ISC | SHORT CIRCUIT CURRENT | UG | UNDERGROUND |
| KCMIL | THOUSAND CIRCULAR MILS | UNO | UNLESS NOTED OTHERWISE |
| KV | KILOVOLT | V | VOLTS |
| KVA | KILOVOLT-AMPERES | VA | VOLT-AMPERES |
| KW | KILOWATT | VFD | VARIABLE FREQUENCY DRIVE |
| LF | LINEAR FEET | W | WATTS |
| LIS | LOAD INTERRUPTER SWITCH | WP | WEATHERPROOF |
| LOC. | LOCATION | Z | IMPEDANCE |
| LTG | LIGHTING | | |

**SHEET OR DETAIL REFERENCE**
- NUMBER ON TOP INDICATES DETAIL NUMBER
- NUMBER ON BOTTOM INDICATES SHEET NUMBER

**MECHANICAL EQUIPMENT CALLOUT**
SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS

KEY NOTE

## CIRCUITING

ARROW INDICATES HOME RUN, LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROWINDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT:

PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED.

LC1-X — LIGHTING CIRCUIT DESIGNATION FOR SPACE, U.N.O.

LC1-X — CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. SEE PANEL SCHEDULES FOR INFORMATION.

+42" — A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE

## MOUNTING OVER OBSTRUCTION DETAIL

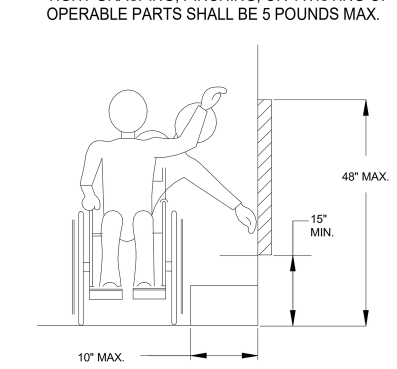
NOTE: SIDE REACH

1. UNOBSTRUCTED: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAX, AND THE LOW SIDE REACH SHALL BE 15 INCHES MIN ABOVE THE FINISH FLOOR OR GROUND.

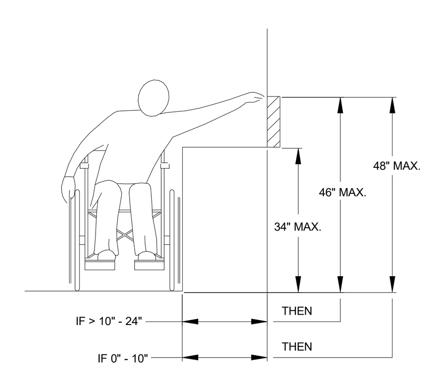
1.1. EXCEPTION: AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES MAX.

2. OBSTRUCTED HIGH REACH: WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAX, AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAX. THE HIGH SIDE REACH SHALL BE 48 INCHES MAX FOR A REACH DEPTH OF 10 INCHES MAX. WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAX FOR A REACH DEPTH OF 24 INCHES MAX.

3. OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.




UNOBSTRUCTED SIDE REACH 2022 CBC 11B-308.3.1




OBSTRUCTED SIDE REACH 2022 CBC 11B-308.3.2

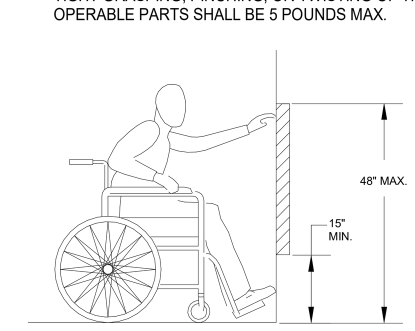
NOTES: FORWARD REACH

1. UNOBSTRUCTED:

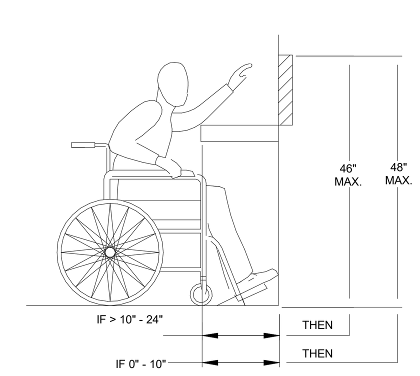
WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAX, AND THE LOW FORWARD REACH SHALL BE 15 INCHES MIN ABOVE THE FINISH FLOOR OR GROUND.

2. OBSTRUCTED REACH: WHERE A CLEAR FLOOR OR GROUND SPACE THAT ALLOWS A FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION, AND THE DEPTH OF THE OBSTRUCTION SHALL BE 25 INCHES MAX. THE HIGH FORWARD REACH SHALL BE 44 INCHES MAX FOR A DEPTH OF 25 INCHES MAX.

3. OPERATION: OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.




UNOBSTRUCTED FORWARD REACH 2022 CBC 11B-308.2.1




OBSTRUCTED FORWARD REACH 2022 CBC 11B-308.2.2

## ELECTRICAL DEVICES & EQUIPMENT

- JUNCTION BOX
- $S^M$ 20A MOTOR-RATED TOGGLE SWITCH
- 20A-125V DUPLEX RECEPTACLE
- 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
- 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP
- 20A-125V CONTROLLED PLUG-LOAD DUPLEX RECEPTACLE
- 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE
- 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS
- 20A-125V FOURPLEX RECEPTACLE (SAME SYMBOLOGY TYPES AS DUPLEX RECEPTACLE)
- SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED)
- 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE
- 20A-125V CEILING MOUNTED DUPLEX RECEPTACLE
- BELL
- EMERGENCY POWER OFF (EPO)
- PUSHBUTTON
- DISCONNECT SWITCH. DISCONNECT SWITCHES SHALL BE 30/NF/3 UON. NF = NON-FUSIBLE, NEMA 1 ENCLOSURE. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY.
- TRANSFORMER
- PANELBOARD
- SWITCHBOARD OR DISTRIBUTION PANELBOARD
- PHOTOVOLTAIC SOLAR PANEL

## LIGHTING FIXTURES

FIXTURE TYPE DESIGNATION — A
PANEL AND CIRCUIT NUMBER — LC1-X
SWITCHLEG CONTROL IDENTIFICATION — a

EMERGENCY / NORMAL

- LED 2' x 2' FIXTURE
- LED 2' x 4' FIXTURE
- LED LINEAR FIXTURE (SURFACE/RECESSED/SUSPENDED)
- LED SURFACE MOUNTED FIXTURE
- LED STRIP FIXTURE
- LED DOWNLIGHT (ROUND)
- LED DOWNLIGHT (SQUARE)
- LED INDOOR WALL SCONCE FIXTURE
- LED WALL MOUNTED FIXTURE
- LED OUTDOOR PEDESTRIAN STYLE POST-TOP AREA FIXTURE
- LED OUTDOOR ARM MOUNT AREA FIXTURE
- SPORTS LIGHTING FIXTURE
- LED ACCENT SPOT LIGHT
- EMERGENCY EXIT LIGHT SIGN. REFER TO LIGHTING PLAN FOR NUMBER OF FACES AND DIRECTIONAL ARROWS

REFER TO LIGHT FIXTURE SCHEDULE FOR MANUFACTURER ORDER NUMBERS

## LIGHTING CONTROLS

FINSHES SHALL BE SELECTED BY CAMPUS REPRESENTATIVE PRIOR TO ORDERING

MANUFACTURER - LUTRON

S — WALL SWITCH - #QSWS2-1BN

TYPES LISTED BELOW:

P - PILOT
3 - THREE-WAY
4 - FOUR-WAY
WP - WEATHPROOF

WALL SWITCH DESIGNATION — D
LIGHTING CONTROL SEQUENCE — a

- $S^{LV2}$ LOW VOLTAGE WALL SWITCH (2-BUTTON) - #QSWS2-2BN
- $S^{LV3}$ LOW VOLTAGE WALL SCENE CONTROL SWITCH (3-BUTTON) - #QSWS2-3BN
- $S^{LV5}$ LOW VOLTAGE WALL SCENE CONTROL SWITCH (5-BUTTON) - #QSWS2-5BN
- $S^{LV7}$ LOW VOLTAGE WALL SCENE CONTROL SWITCH (7-BUTTON) - #QSWS2-7BN
- $S^{D}$ DIMMER WALL SWITCH - #DVSTV
- $S^{OC}$ WALL OCCUPANCY SENSOR - #MS-OPS6M2-DV
- $S^{OCD}$ WALL OCCUPANCY SENSOR WITH DIMMING - #MS-Z101
- LOW VOLTAGE OCCUPANCY SENSOR - #LOS-CDT-2000
- LOW VOLTAGE CORRIDOR OCCUPANCY SENSOR - #LOS-CDT-1000
- HB — LOW VOLTAGE OCCUPANCY SENSOR (HIGH CEILING) - #LUT-WSPSM24V-360-XX-CPN6111
- PC — DAYLIGHT HARVESTING PHOTOCELL DIMMING SENSOR - #EC-DIR
- PRIMARY DAYLIGHTING ZONE
- SECONDARY DAYLIGHTING ZONE

## SINGLE LINE DIAGRAM

- L1A — PANELBOARD
- AUTOMATIC TRANSFER SWITCH
- CIRCUIT BREAKER (FUSED TYPE)
- CIRCUIT BREAKER
- GF — GROUND FAULT CIRCUIT BREAKER
- M — METER
- TRANSFORMER
- COMBINATION MOTOR-STARTER
- DISCONNECT SWITCH W/COMBINATION MOTOR-STARTER
- F — DISCONNECT SWITCH - FUSED
- DISCONNECT SWITCH
- ECM — ELECTRIC CIRCUIT MONITOR
- SPD — SURGE PROTECTIVE DEVICE
- MOTOR
- TAP
- POINT OF CONNECTION
- CONTINUATION LINE
- G — GENERATOR
- GROUND

## RENOVATION WORK

EXISTING WORK SHALL BE SHOWN LIGHT - NEW WORK SHALL BE SHOWN DARK

- (E) EXISTING TO REMAIN
- (R) EXISTING SHALL BE DEMOLISHED AND REMOVED.
- (ER) EQUIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.
- (RR) EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
- NO TAG INDICATES NEW EQUIPMENT.

## ELECTRICAL SHEET INDEX


| SHEET | DESCRIPTION |
|---|---|
| E0.0 | ELECTRICAL SYMBOLS, LEGENDS & GENERAL NOTES |
| E1.1 | ELECTRICAL SITE PLAN |
| E2.1 | ELECTRICAL PLANS |
| E5.1 | ELECTRICAL PANEL SCHEDULES |
| E6.1 | ELECTRICAL DETAILS |
| E7.1 | SINGLE LINE DIAGRAMS |


## LIST OF APPLICABLE CODES

**2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)**
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1

**2022 CALIFORNIA BUILDING CODE (CBC)**
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 1 & 2

**2022 CALIFORNIA ELECTRICAL CODE (CEC)**
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3

**2022 CALIFORNIA ENERGY CODE**
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6

**2022 CALIFORNIA FIRE CODE (CFC)**
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9

**2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)**
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11

**2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE**
WITH CA AMENDMENTS

13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13. EACH SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER AND COORDINATED WITH THE STRUCTURAL BUILDING DESIGN.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☒ IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN

SHEET NUMBER(S): E7.1

MP ☐ MD ☐ PP ☐ E ☐ IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD OPM, DEFERRED APPROVAL.

## UTILITY PENETRATION NOTE

UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIESSHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED UL LISTED SYSTEM OR MATERIAL. STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILING, OR AREASEPARATION UNLESS THEY:

1. OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER IN THIS CASE , ONLY ONE OUTLET BOX NEEDS TO BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.

2. OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED TO BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE FEET OF WALL.

STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED OR EQUAL.

FIRESTOPPING MATERIAL:
MPP-1 MOLDABLE PUTTY PADS

3M CONTRACTOR PRODUCTS
MINNEAPOLIS,
MN 3M TEST REPORT NO. 1167
DATED AUGUST 21, 1987

FLAMESAFE FSP 1077 FIRESTOP PADS
INTERNATIONAL PROTECTIVE COATINGS
OAKHURST, NJ

FSP FIRESTOP PUTTY PADS
HEVI-DUTY NELSON PRODUCTS
TULSA, OK

STEEL UTILITY BOXES WHICH EXCEED 100 SQUARE INCHES IN AREA SHALL BE PROTECTED BY ENCASEMENT.

UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

## DIAGRAMMATIC NOTE

DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYSSHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS ANY ELECTRICAL ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFERTO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

## STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS. STRUCTURAL MEMBERS SHALL NOT BE CUT. DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

5 4 3 2 1

G F E D C B A

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district


Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810


LBUSD No.: 9216-654
PTN No.: 64725-585

Stamps

REGISTERED PROFESSIONAL ENGINEER STEVEN C. MUSSER NO. E-19817 Exp. 3-31-26 ELECTRICAL STATE OF CALIFORNIA

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Project

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

JOB No.: 240469
SCALE: 12" = 1'-0"
PROJ MGR: Author
DATE: 11/21/25

Sheet Title

ELECTRICAL SYMBOLS, LEGENDS & GENERAL NOTES

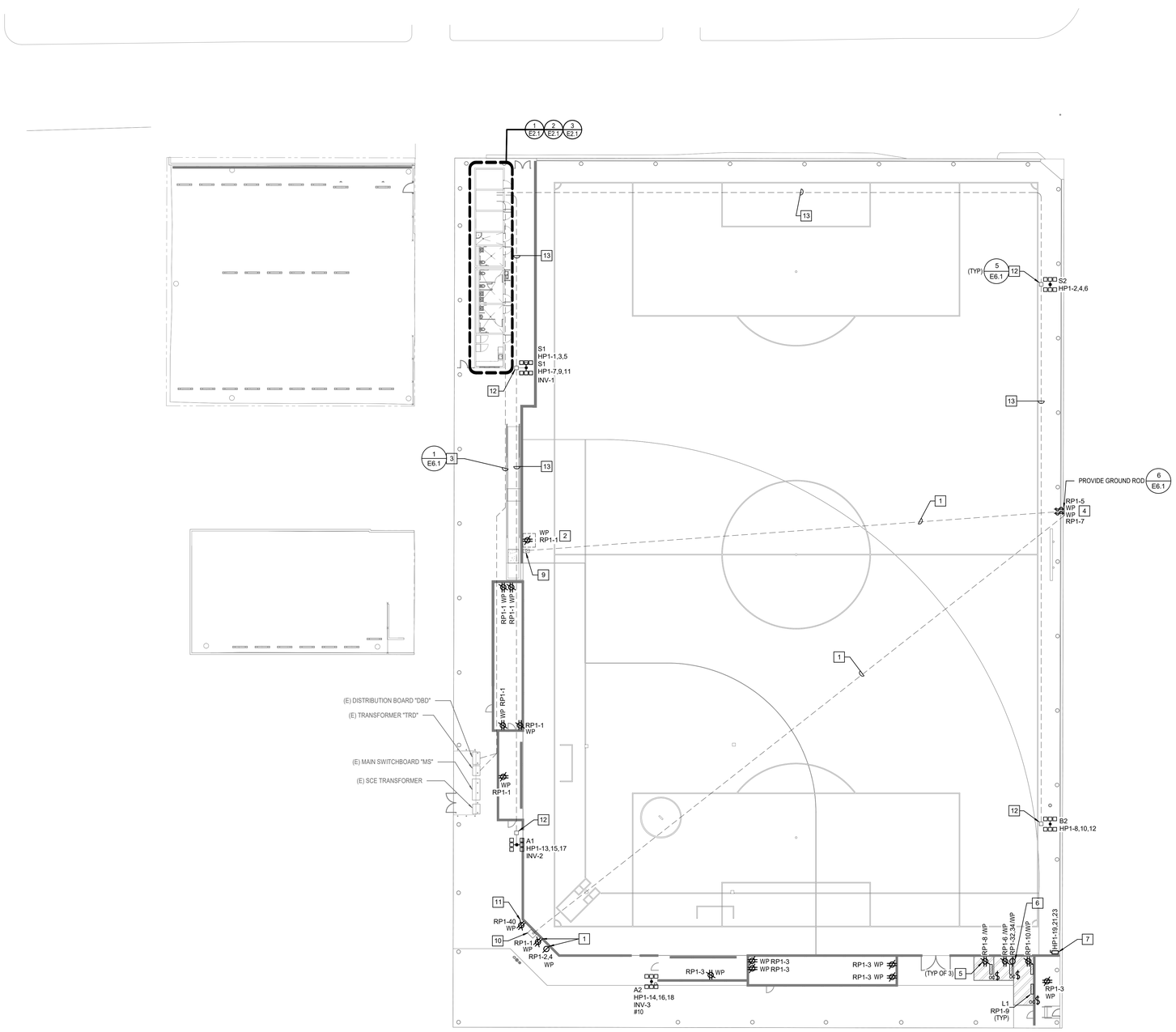
Sheet No.

E0.0

# SITE LIGHT FIXTURE SCHEDULE

| FIXTURE DESIGNATION | DESCRIPTION | MANUFACTURER | MODEL NO. | MOUNTING | LED DATA (COLOR, LUMENS, CRI) | WATTAGE | VOLTAGE |
|---|---|---|---|---|---|---|---|
| A1 | POLE LIGHTING | MUSCO | SEE MUSCO DRAWINGS: LSS 60B, LSS 70C, LSS 80B FOR SPECIFIC INFORMATION. | POLE | 5700K,75CRI | * | UNV |
| A2 | POLE LIGHTING | MUSCO | SEE MUSCO DRAWINGS: LSS 60B, LSS 70C, LSS 80B FOR SPECIFIC INFORMATION. | POLE | 5700K,75CRI | * | UNV |
| B2 | POLE LIGHTING | MUSCO | SEE MUSCO DRAWINGS: LSS 60B, LSS 70C, LSS 80B FOR SPECIFIC INFORMATION. | POLE | 5700K,75CRI | * | UNV |
| S1 | POLE LIGHTING | MUSCO | SEE MUSCO DRAWINGS: LSS 60B, LSS 70C, LSS 80B FOR SPECIFIC INFORMATION. | POLE | 5700K,75CRI | * | UNV |
| S2 | POLE LIGHTING | MUSCO | SEE MUSCO DRAWINGS: LSS 60B, LSS 70C, LSS 80B FOR SPECIFIC INFORMATION. | POLE | 5700K,75CRI | * | UNV |

NOTE: MUSCO LIGHTING SHALL BE INTEGRATED INTO THE DISTRICT'S EXISTING MUSCO LIGHTING ContoliLink CONTROL SYSTEM EMS.




1 ELECTRICAL SITE PLAN
1" = 20'-0"

## GENERAL NOTES

1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE MINIMUM 1-1/2"C IN SIZE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.
4. MUSCO LIGHTING CONTROLS SHALL BE INCLUDED WITH MUSCO SPORT LIGHTING FIXTURES. ENSURE THAT MUSCO CONTROL MONITORING FOR THE SITE IS INCLUDED WITH ALL THE OTHER MUSCO SPORTS LIGHTING SITES FOR LBUSD.
5. PROVIDE #4 CONDUCTORS FOR 120V CIRCUITS ROUTED ON THE SITE PER THE PLAN TO ACCOUNT FOR VOLTAGE DROP ACROSS THE SITE.

5

## KEY NOTES

4

1. PROVIDE 1-1/2"C FROM SCORE BOARD TO BACK OF BACKSTOP AND TO SOCCER CENTER FIELDFOR SCORE BOARD CONTROL
2. PROVIDE 120V POWER CONNECTION LOCATED IN GRADE BOX.
3. REFER TO SINGLE LINE DIAGRAM ON SHEET E7.1.
4. PROVIDE (2) 20A WEATHERPROOF, TOGGLE SWITCHES FOR SCOREBOARD IN LOCKABLE ENCLOSURE WITH COVER (NEMA-3R). PLACE SWITCHES AWAY FROM FENCE.
5. MOUNT 120V GFCI-TYPE RECEPTACLE IN CONTAINER AS REQUIRED.
6. MOUNT 30A, 220V GFCI-TYPE RECEPTACLE IN CONTAINER AS REQUIRED.
7. PROVIDE 480V 30A3P DISCONNECT FOR LANDSCAPE BOOSTER PUMP.
8. PROVIDE CONDUIT FROM SCOREBOARD TO ROOM INDICATED FOR SCOREBOARD CONTROL.
9. PROVIDE IN-GROUND PULLBOX FOR TECHNOLOGY CONDUIT. SIZE PULLBOX AS REQUIRED.
10. PROVIDE SURFACE-MOUNTED PULL BOX ON BACK OF BACKSTOP FOR TECHNOLOGY CONDUIT. PULL BOX SHALL BE SIZED AS REQUIRED.
11. PROVIDE CONNECTION FOR ASSISTED LISTENING TRANSMITTER. COORDAINTE EXACT LOCATION WITH CAMPUS REPRESENTATIVE AND TECHNOLOGY DRAWINGS PRIOR TO ROUGH-IN.
12. PROVIDE 18"x18" PULLBOX FOR LIGHTING POLE.
13. PROVIDE THE FOLLOWING:
    - 2"C - 4#6 & 1#10G FOR NORMAL POWER (PER CIRCUIT CALLED OUT AT EACH POLE)
    - 2"C - 2#6 & 1#10G FOR EMERGENCY POWER (PER CIRCUIT CALLED OUT AT EACH POLE
    - 2"C FOR LOW VOLTAGE

3

2

1

Agency Approval

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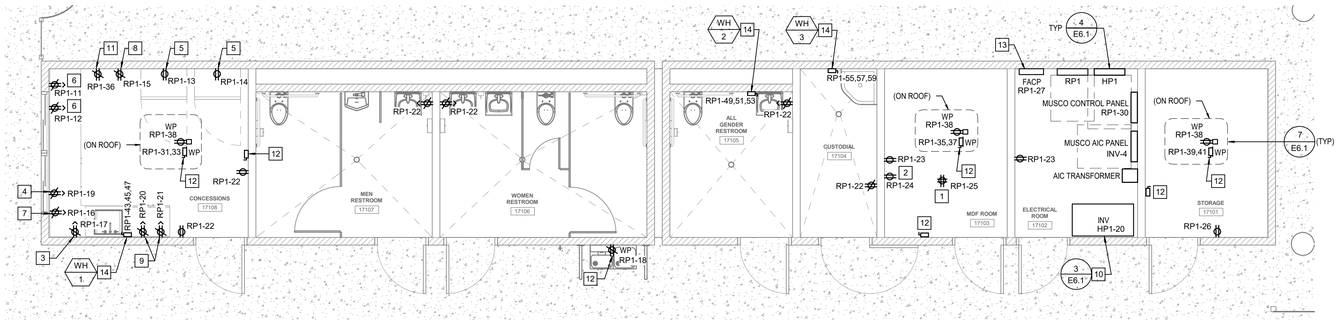
Sheet Title

ELECTRICAL SITE PLAN

Sheet No.

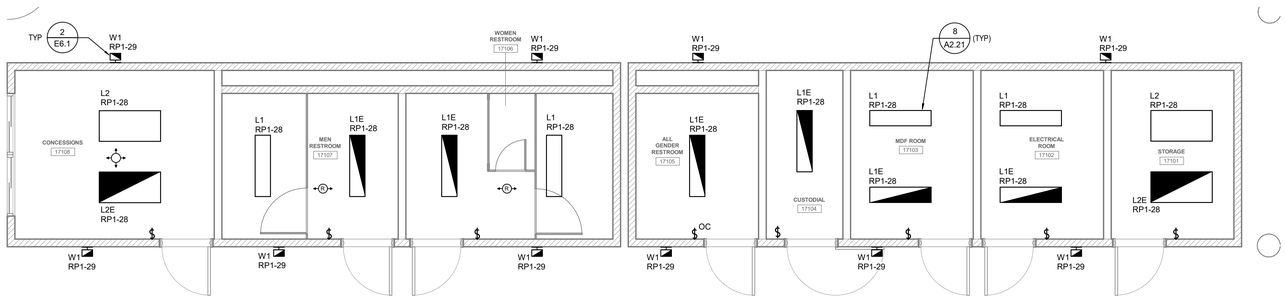
E1.1




## 1 POWER PLAN
1/4" = 1'-0"

## LIGHT FIXTURE SCHEDULE

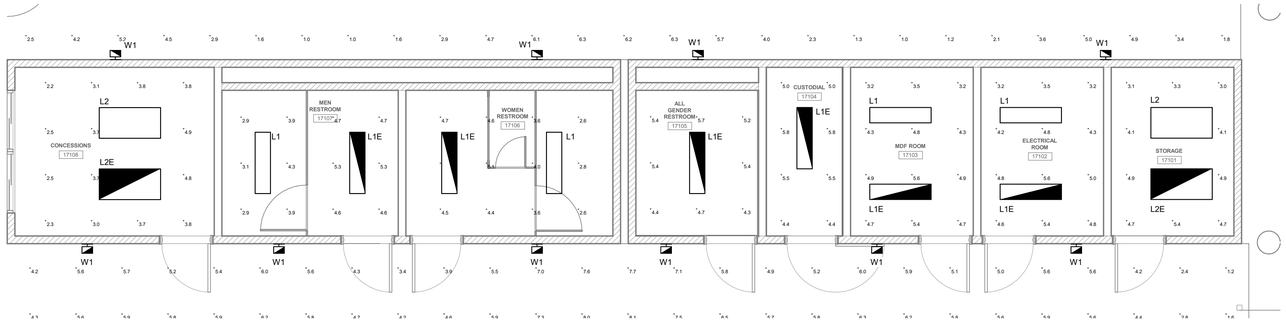
| FIXTURE DESIGNATION | DESCRIPTION | MANUFACTURER | MODEL NO. | MOUNTING | LED DATA (COLOR, LUMENS, CRI) | WATTAGE | VOLTAGE | NOTES |
|---|---|---|---|---|---|---|---|---|
| L1 | LINEAR SURFACE MOUNT | ATG LIGHTING | VP-4FT-24-40-FP | SURFACE | 4000K, 3100LM, 80CRI | 25W | UNV | |
| L1E | LINEAR SURFACE MOUNT | ATG LIGHTING | VP-4FT-24-40-FP-E7 | SURFACE | 4000K, 3100LM, 80CRI | 25W | UNV | |
| L2 | 2X4 PANEL LIGHT | ATG LIGHTING | FPBL24-30W-T1-S-SMK24 | SURFACE | 4000K, 3950LM, 85CRI | 30W | UNV | |
| L2E | 2X4 PANEL LIGHT | ATG LIGHTING | FPBL24-30W-T1-S-SMK24-EG | SURFACE | 4000K, 3950LM, 85CRI | 30W | UNV | |
| W1 | WALL PACK | ATG LIGHTING | WPGP-40-40-FINISH | SURFACE | 4000K, 6102LM,80CRI | 40W | UNV | FINISH SHALL BE SELECTED BY CAMPUS REPRESENTATIVE. |




## 2 LIGHTING PLAN
1/4" = 1'-0"

| Statistics | | | | | | |
|---|---|---|---|---|---|---|
| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
| 1101 TICKET BOOTH | + | 4.4 fc | 5.6 fc | 3.0 fc | 1.9:1 | 1.5:1 |
| 1102 ELECTRICAL ROOM | + | 4.5 fc | 5.6 fc | 3.2 fc | 1.8:1 | 1.4:1 |
| 1103 MDF ROOM | + | 4.5 fc | 5.6 fc | 3.2 fc | 1.8:1 | 1.4:1 |
| 1104 CUSTODIAL | + | 5.2 fc | 5.8 fc | 4.4 fc | 1.3:1 | 1.2:1 |
| 1105 STAFF RESTROOM | + | 5.1 fc | 5.8 fc | 4.3 fc | 1.3:1 | 1.2:1 |
| 1107 MEN RESTROOM | + | 4.2 fc | 5.3 fc | 2.9 fc | 1.8:1 | 1.4:1 |
| 1108 CONCESSIONS | + | 3.6 fc | 4.9 fc | 2.2 fc | 2.2:1 | 1.6:1 |
| EXTERIOR | + | 3.6 fc | 6.8 fc | 1.0 fc | 6.8:1 | 3.6:1 |
| EXTERIOR | + | 5.4 fc | 8.1 fc | 1.2 fc | 6.8:1 | 4.5:1 |
| WOMEN RESTROOM | + | 4.0 fc | 5.3 fc | 2.6 fc | 2.0:1 | 1.5:1 |

| Schedule | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Symbol | Label | Quantity | Manufacturer | Catalog Number | Description | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage |
| | L1E | 8 | ATG LED LIGHTING | VPN-4FT-24P-1100/830/80CRI | Vanwall and Resurgence Luminaires | 1 | 3714 | 0.85 | 40 |
| | L2E | 2 | ATG LED LIGHTING | FPBL24-30W-T1-Hx1-E-@@W-4000K | | 1 | 5999 | 0.85 | 38.9 |
| | W1 | 10 | ATG Electronics | | Accent Parts DLC-Selectable, Max Wattage: 40W | 1 | 6102 | 0.85 | 40.2999 |




## 3 EMERGENCY PHOTOMETRIC PLAN
1/4" = 1'-0"

## GENERAL NOTES

1. BRANCH CIRCUITS SHALL BE 3/4"C - 2#12 & 1#12G, UNLESS OTHERWISE NOTED.
2. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS PER MANUFACTURER'S RECOMMENDATIONS FOR MISC. SPECIFIED EQUIPMENT PRIOR TO ROUGH-IN.
3. COORDINATE INSTALLATION REQUIREMENTS WITH MECHANICAL DRAWINGS FOR SPECIFIED MECHANICAL EQUIPMENT AND DEVICES PRIOR TO ROUGH-IN.
4. MAINTAIN CODE REQUIRED CLEARANCES AROUND ELECTRICAL EQUIPMENT.
5. COORDINATE MOUNTING HEIGHTS FOR ELECTRICAL DEVICES WITH CAMPUS REPRESENTATIVE PRIOR TO ROUGH-IN.
6. SEE DETAILS ON SHEET E6.1 FOR ELECTRICAL DETAILS.
7. FOR EQUIPMENT OR DEVICES SHOWN ON ARCHITECTURAL DRAWINGS THAT REQUIRE POWER AND NOT IDENTIFIED ON ELECTRICAL PLANS, ASSUME AT A MINIMUM A DUPELX OUTLET, A DEDICATED CIRCUIT WITH 2#12,1#12G,3/4"C. WITH HOMERUN TO NEAREST 120/208V PANEL.
8. PROVIDE 1-HOUR SEALANT FOR ALL (N) WALL PENETRATIONS.
9. BRANCH CIRCUITS (INTERIOR LIGHTING) - 3/4"C-2#12, 1#12G, U.N.O.
   BRANCH CIRCUITS (EXTERIOR LIGHTING) - 3/4"C-2#10, 1#10G, U.N.O.
10. LIGHTING CONTROL SYSTEM - PROVIDE REQUIRED ASSOCIATED DEVICES FOR A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM. COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER SPECIFIED ON SHEET E0.0.
11. LIGHT FIXTURES - REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E2.1 FOR LIGHT FIXTURE ORDERING INFORMATION.
12. EXIT SIGNS - CONNECT TO NEAREST UNSWITCHED EMERGENCY BRANCH CIRCUIT. 5
13. EMERGENCY LIGHT FIXTURES - CONTROLLED THE SAME AS THE NORMAL LIGHT FIXTURES UNDER NORMAL SPACE FUNCTION, BUT SHALL OPERATE AT FULL POWER IN THE EVENT OF A POWER OUTAGE. PER UL924.
14. LIGHT FIXTURE DETAILS - SEE SHEET E6.1 FOR FURTHER INFORMATION.
15. PROVIDE 1-HOUR SEALANT FOR ALL (N) WALL PENETRATIONS.
16. RELOCATED OR NEW LIGHTING FIXTURES AND/OR SWITCHES SHALL MATCH EXISTING. EXTEND NEW WIRING TO THE NEW LOCATIONS TO HAVE A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM.
17. THERE IS NO ADDITIONAL LOAD FOR THIS PROJECT. ALL FIXTURES ARE EXISTING OR EXISTING TO BE RELOCATED WITHIN THE SPACE. THEREFORE, TITLE 24 LIGHTING COMPLIANCE CALCULATIONS ARE NOT REQUIRED.
18. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH MECHANICAL DRAWINGS FOR SPECIFIED MECHANICAL EQUIPMENT AND DEVICES PRIOR TO ROUGH-IN.
19. ELECTRICAL EQUIPMENT AND DEVICES MOUNTED ON ROOF SHALL BE WEATHERPROOF (NEMA-3R), AND +8"AFF FROM THE ROOF LEVEL.
20. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.
21. CONDUIT SHALL BE RAN BELOW ROOF LEVEL, U.N.O.
22. DUCT DETECTORS FURNISHED BY FA CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, AND CONNECTED BY ELECTRICAL CONTRACTOR.

4

## KEY NOTES

1. PROVIDE DEDICATED 120V/20A QUAD TO SERVER IDF CABINET. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE DECICATED 120V RECEPTACLE TO SERVE MASTER REMOTE ADDRESSABLE UNIT. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.
3. PROVIDE CONNECTION FOR HOT DOG WARMER.
4. PROVIDE CONNECTION FOR NACHO CHEESE WARMER.
5. PROVIDE CONNECTION FOR REFRIGERATOR.
6. PROVIDE CONNECTION FOR MICROWAVE.
7. PROVIDE CONNECTION FOR POPCORN MACHINE.
8. PROVIDE CONNECTION FOR HEATED HOLDING CABINET.
9. PROVIDE CONNECTION FOR FOOD WARMER.
10. PROVIDE MYERS ILLUMINATOR E #6-IE-BD2003-BD3203-Z-2YW INVERTER.
11. PROVIDE CONNECTION FOR ICE MACHINE.
12. MECHANICAL EQUIPMENT - PROVIDE 30A/20AF/2 DISCONNECT. POWER SOURCE VIA OUTDOOR UNIT LOCATED ON ROOF (NEMA-3R). REFER TO MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
13. PROVIDE DEDICATED 120V CIRCUIT WITH RED LOCK-ON DEVICE AT CIRCUIT BREAKER FOR FIRE ALARM CONTROL PANEL.
14. WATER HEATER - PROVIDE 60A/3P DISCONNECT. REFER TO PLUMBING DRAWINGS PRIOR TO ROUGH-IN. 3

2

1

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

Stamps

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Exp. 3-31-26
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Project

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 11/21/25

Sheet Title

ELECTRICAL PLANS

Sheet No.

E2.1

## Emergency Inverter: INV

**VOLTAGE:** 277V
**SIZE:** 16.7KVA

**LOCATION:** ELECTRICAL ROOM 17102

| CIR NO | Circuit Description | Breaker Amps/ Poles | | | A | | B | | C | | Breaker Amps/ Poles | | | Circuit Description | CIR NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S1 EM | 30 A | 1 | | 3988 | 3988 VA | | | | | | 1 | 30 A | A1 EM | 2 |
| 3 | A2 EM | 30 A | 1 | | | | 3988 VA | 250 VA | | | | 1 | 20 A | MUSCO AIC CONTROL PANEL | 4 |
| 5 | SPARE | 20 A | 1 | -- | | | | | 0 VA | 0 VA | -- | 1 | 20 A | SPARE | 6 |
| 7 | SPACE | -- | 1 | -- | -- | -- | | | | | -- | 1 | -- | SPACE | 8 |
| 9 | SPACE | -- | 1 | -- | | | -- | -- | | | -- | 1 | -- | SPACE | 10 |
| 11 | SPACE | -- | 1 | -- | | | | | -- | -- | -- | 1 | -- | SPACE | 12 |

| CONNECTED LOAD BY PHASE (VA) | |
|---|---|
| A: | 7976 |
| B: | 4238 |
| C: | 0 |

| CONNECTED | |
|---|---|
| 12214 | VA |
| 15 | 3PH AMPS |
| DEMAND LOAD | |
| 15 | 3PH AMPS |

**REMARKS:**

## Branch Panel: HP1

**NEUTRAL BUS:** Yes
**NEUTRAL RATING:** 100%
**GROUND BUS:** Yes
**MOUNTING:** SURFACE

**VOLTAGE:** 480Y/277V, 3H, 4W
**MAIN BUS:** 225 A
**MCB:** 225 A
**AIC RATING:** SEE SHEET E7.1

**LOCATION:** ELECTRICAL ROOM 17102

| CIR NO | Circuit Description | Breaker Amps/ Poles | | | A | | B | | C | | Breaker Amps/ Poles | | | Circuit Description | CIR NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S1 SOCCER | 30 A | 3 | | 1264 | 1772 VA | | | | | | 3 | 30 A | S2 SOCCER | 2 |
| 3 | | | | | | | 1264 VA | 1772 VA | | | | | | | 4 |
| 5 | | | | | | | | | 1264 VA | 1772 VA | | | | | 6 |
| 7 | S1 SOFTBALL/SOCCER | 30 A | 3 | | 3050 | 2878 VA | | | | | | 3 | 30 A | B2 SOFTBALL/SOCCER | 8 |
| 9 | | | | | | | 3050 VA | 2878 VA | | | | | | | 10 |
| 11 | | | | | | | | | 3050 VA | 2878 VA | | | | | 12 |
| 13 | A1 SOFTBALL/SOCCER | 30 A | 3 | | 1609 | 1609 VA | | | | | | 3 | 20 A | A2 SOFTBALL | 14 |
| 15 | | | | | | | 1609 VA | 1609 VA | | | | | | | 16 |
| 17 | | | | | | | | | 1609 VA | 1609 VA | | | | | 18 |
| 19 | LANDSCAPE BOOSTER PUMP | 20 A | 3 | | 917 | 250 VA | | | | | | 1 | 90 A | LIGHTING INVERTER "INV" | 20 |
| 21 | | | | | | | 917 VA | | | | | | | | 22 |
| 23 | | | | | | | | | 917 VA | | | | | | 24 |
| 25 | | | | | | | | | | | | | | | 26 |
| 27 | | | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | | | 30 |
| 31 | SPACE | -- | 1 | -- | -- | -- | | | | | -- | 1 | -- | SPACE | 32 |
| 33 | SPACE | -- | 1 | -- | | | -- | -- | | | -- | 1 | -- | SPACE | 34 |
| 35 | SPACE | -- | 1 | -- | | | | | -- | -- | -- | 1 | -- | SPACE | 36 |
| 37 | SPACE | -- | 1 | -- | -- | -- | | | | | -- | 1 | -- | SPACE | 38 |
| 39 | SPACE | -- | 1 | -- | | | -- | -- | | | -- | 1 | -- | SPACE | 40 |
| 41 | SPACE | -- | 1 | -- | | | | | -- | -- | -- | 1 | -- | SPACE | 42 |

**LEGEND:**
** 6 mA GROUND FAULT CIRCUIT BREAKER
*30 mA GROUND FAULT CIRCUIT BREAKER
# RED LOCK-ON CIRCUIT BREAKER HANDLE
ST - SHUNT TRIP

| CONNECTED LOAD BY PHASE (VA) | |
|---|---|
| A: | 13349 |
| B: | 13099 |
| C: | 13099 |

| CONNECTED LOAD | |
|---|---|
| 39547 | KVA |
| 48 | 3PH AMPS |
| DEMAND LOAD | |
| 48 | 3PH AMPS |

**REMARKS:**

## Branch Panel: RP1

**NEUTRAL BUS:** Yes
**NEUTRAL RATING:** 100%
**GROUND BUS:** Yes
**MOUNTING:** SURFACE

**VOLTAGE:** 208Y/120V, 3PH, 4W
**MAIN BUS:** 225 A
**MCB:** 225 A
**AIC RATING:** SEE SHEET E7.1

**LOCATION:** ELECTRICAL ROOM 17102

| CIR NO | Circuit Description | Breaker Amps/ Poles | | | A | | B | | C | | Breaker Amps/ Poles | | | Circuit Description | CIR NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SITE RECEPTACLE | 20 A | 1 | | 1260 | 90 | | | | | | 2 | 20 A | CHARGING STATION | 2 |
| 3 | SITE RECEPTACLE | 20 A | 1 | | | | 1080 | 90 | | | | | | | 4 |
| 5 | SCOREBOARD | 20 A | 1 | | | | | | 150 | 180 | | 1 | 20 A | SITE RECEPTACLE | 6 |
| 7 | SCOREBOARD | 20 A | 1 | | 150 | 180 | | | | | | 1 | 20 A | SITE RECEPTACLE | 8 |
| 9 | SITE CONTAINER LIGHTING | 20 A | 1 | | | | 240 | 180 | | | | 1 | 20 A | SITE RECEPTACLE | 10 |
| 11 | MICROWAVE | 20 A | 1 | | | | | | 1500 | 180 | | 1 | 20 A | MICROWAVE | 12 |
| 13 | REFRIGERATOR | 20 A | 1 | | 1400 | 1400 | | | | | | 1 | 20 A | REFRIGERATOR | 14 |
| 15 | HEATED HOLDING CABINET | 20 A | 1 | | | | 1800 | 1500 | | | | 1 | 20 A | POPCORN MACHINE | 16 |
| 17 | HOTDOG WARMER | 20 A | 1 | | | | | | 1200 | 180 | | 1 | 20 A | DRINKING FOUNTAIN | 18 |
| 19 | NACHO CHEESE WARMER | 20 A | 1 | | 180 | 1200 | | | | | | 1 | 20 A | FOOD WARMER | 20 |
| 21 | FOOD WARMER | 20 A | 1 | | | | 1200 | 1080 | | | | 1 | 20 A | CONC,CUST,RR, RECEPT | 22 |
| 23 | MDF, ELEC RM RECEPT | 20 A | 1 | | | | | | 360 | 180 | | 1 | 20 A | MDF | 24 |
| 25 | MDF | 20 A | 1 | | 360 | 180 | | | | | | 1 | 20 A | STORAGE RECEPT | 26 |
| 27 | #FACP | 20 A | 1 | | | | 300 | 840 | | | | 1 | 20 A | INTERIOR LIGHTING | 28 |
| 29 | EXTERIOR LIGHTING | 20 A | 1 | | | | | | 470 | 960 | | 1 | 20 A | MUSCO CONTROL PANEL | 30 |
| 31 | SPLIT SYSTEM - CONCESSIONS | 20 A | 2 | | 1778 | 720 | | | | | | 2 | 30 A | SITE RECEPTACLE | 32 |
| 33 | | | | | | | 1778 | 720 | | | | | | | 34 |
| 35 | SPLIT SYSTEM - MDF | 20 A | 2 | | | | | | 1778 | 1000 | | 1 | 20 A | ICE MACHINE | 36 |
| 37 | | | | | 1778 | 540 | | | | | | 1 | 20 A | ROOF RECEPTS | 38 |
| 39 | SPLIT SYSTEM - TICKET BOOTH | 20 A | 2 | | | | 1778 | 500 | | | | 1 | 20 A | ASSISTED LISTENING TRANSMITTER | 40 |
| 41 | | | | | | | | | 1778 | 0 | -- | 1 | 20 A | SPARE | 42 |
| 43 | WH-1 | 60 A | 3 | | 6233 | 0 | | | | | -- | 1 | 20 A | SPARE | 44 |
| 45 | | | | | | | 6233 | 0 | | | -- | 1 | 20 A | SPARE | 46 |
| 47 | | | | | | | | | 6233 | 0 | -- | 1 | 20 A | SPARE | 48 |
| 49 | WH-2 | 60 A | 3 | | 6233 | 0 | | | | | -- | 1 | 20 A | SPARE | 50 |
| 51 | | | | | | | 6233 | 0 | | | -- | 1 | 20 A | SPARE | 52 |
| 53 | | | | | | | | | 6233 | 0 | -- | 1 | 20 A | SPARE | 54 |
| 55 | WH-3 | 60 A | 3 | | 6233 | -- | | | | | -- | 1 | -- | SPACE | 56 |
| 57 | | | | | | | 6233 | -- | | | -- | 1 | -- | SPACE | 58 |
| 59 | | | | | | | | | 6233 | -- | -- | 1 | -- | SPACE | 60 |
| 61 | SPACE | -- | 1 | -- | -- | -- | | | | | -- | 1 | -- | SPACE | 62 |
| 63 | SPACE | -- | 1 | -- | | | -- | -- | | | -- | 1 | -- | SPACE | 64 |
| 65 | SPACE | -- | 1 | -- | | | | | -- | -- | -- | 1 | -- | SPACE | 66 |

**LEGEND:**
** 6 mA GROUND FAULT CIRCUIT BREAKER
*30 mA GROUND FAULT CIRCUIT BREAKER
# RED LOCK-ON CIRCUIT BREAKER HANDLE
ST - SHUNT TRIP

| CONNECTED LOAD BY PHASE (VA) | |
|---|---|
| A: | 29916 |
| B: | 31786 |
| C: | 28616 |

| CONNECTED LOAD | |
|---|---|
| 90318 | KVA |
| 251 | 3PH AMPS |
| DEMAND LOAD | |
| 236 | 3PH AMPS |

**REMARKS:**

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district

**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

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Project

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

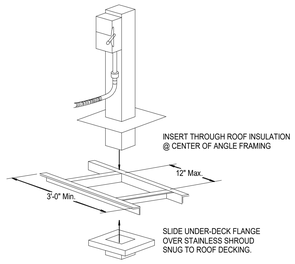
JOB No.: 240469
SCALE:
PROJ MGR: Author
DATE: 06/24/25

Sheet Title

**ELECTRICAL PANEL SCHEDULES**

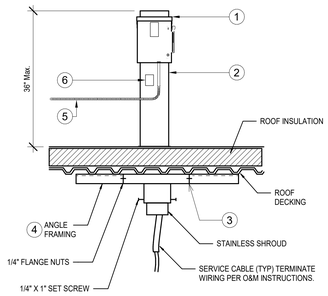
Sheet No.

**E5.1**




NOTES:

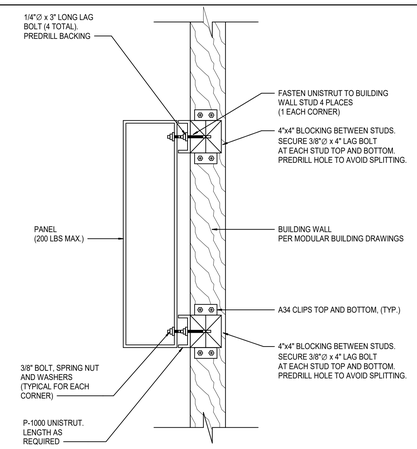
1. WATER-TIGHT FLEX CONDUIT SHALL NOT RESTRICT FAN FROM ROTATING ON HINGED SUB-BASE FOR SERVICE TO DAMPERS AND DUCT CONNECTION. REFER TO DIVISION 26.




1. REFER TO ELECTRICAL DRAWINGS AND DIVISION 26 SPECIFICATIONS FOR ELECTRICAL CHARACTERISTICS OF STARTER/DISCONNECT - DISCONNECT ONLY.
2. MAPA MPD-30/60 PEDESTAL DISCONNECT OR MAPA MPX-20-G PEDESTAL.
3. SECURE FLANGE TO ANGLE FRAMING USING (4)-1/4" X1 1/2" SET SCREWS
4. ANGLES 2X2X16 GA. FASTEN ANGLE TO EACH OTHER W/1/8" FILLET WELDS.
5. WATER-TIGHT FLEX BY DIVISION 26.
6. WEATHERPROOF GFCI SERVICE RECEPTACLE.

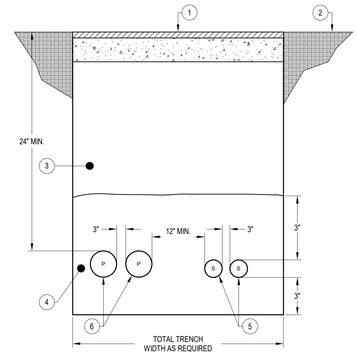
## 7 PEDESTAL MOUNT DISCONNECT OR RECEPTACLE

NOT TO SCALE




## 4 SURFACE MOUNTED PANEL/CABINET AT WOOD FRAMING DETAIL

NOT TO SCALE




NOTES:

1. SAWCUT AND REMOVE CONCRETE OR PAVING WHERE APPLICABLE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVING, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED, REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. FINISHED GRADE.
3. ROCK FREE NATIVE BACKFILL, 90% COMPACTION.
4. #4 MINIMUM SALT-FREE SAND.
5. S = SIGNAL (INCLUDES TELECOM, CATV, FIRE ALARM, SECURITY OR SIMILAR CABLING. QTY. AND SIZE AS SHOWN ON PLANS.
6. P = POWER (THIS DETAIL APPLIES TO CONDUITS CARRYING 600V OR BELOW CONDUCTORS. HIGHER VOLTAGE HAS DIFFERENT REQUIREMENTS. QTY. AND SIZE AS SHOWN ON PLANS

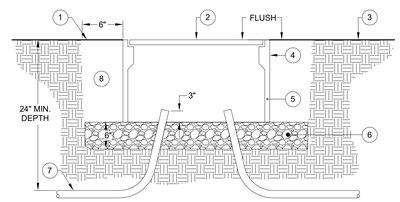
GENERAL NOTES:

1. THE EXTENT THAT PEDESTRIAN SURFACES ARE TRENCHED AND PATCHED, THE PATCH SHALL COMPLY WITH CBC §11B-302.1 AND §11B-303.

## 1 TRENCH DETAIL

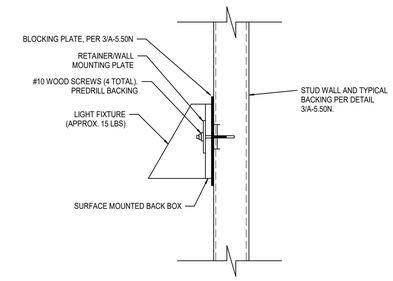
NOT TO SCALE

1. SET BOX FLUSH WITH FINISHED GRADE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVEMENT, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED. REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. TRAFFIC RATED COVER IN HARD-SCAPE INSTALLATIONS, NON-TRAFFIC RATED REINFORCED CONCRETE CONCRETE COVER OTHERWISE. SEE SPECIFICATION 26 05 33 COVER MARKED OR INSCRIBED WITH INTENDED USE.
3. FINISHED GRADE.
4. REINFORCED CONCRETE PULLBOX. QTY AND SIZE AS SHOWN ON PLANS.
5. PROVIDE BOX EXTENSION RINGS AS REQUIRED.
6. CRUSHED GRAVEL DRAIN BASE BEDDING.
7. TYPICAL UNDERGROUND CONDUIT PER PLANS. DEPTH MIN. 24", SEE TYPICAL TRENCH DETAIL.
8. EXCAVATE A MINIMUM WIDTH EQUAL TO THE DIMENSIONS OF THE BOX PULS 6" ON ALL SIDES. BACKFILL WITH ROCK-FREE NATIVE SOIL AT 90% COMPACTION.



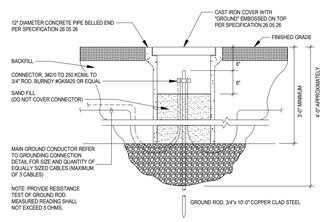

## 5 UNDERGROUND PULLBOX DETAIL

NOT TO SCALE



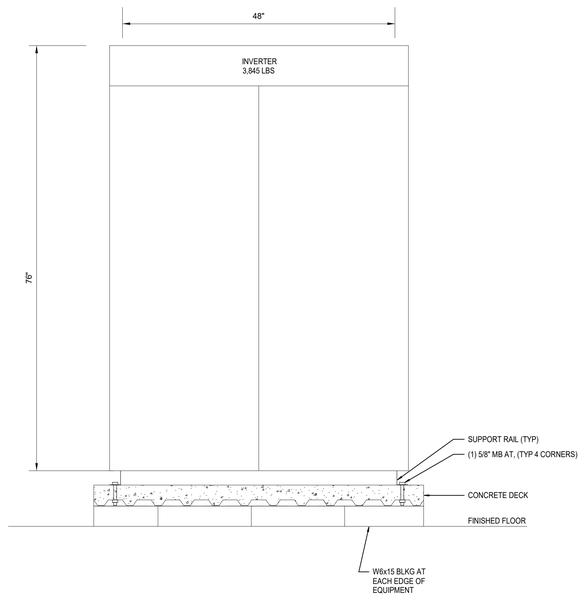

## 2 WALL MOUNTED FIXTURE DETAIL (WOOD STUD)

12" = 1'-0"




## 6 GROUND WELL ASSEMBLY

NOT TO SCALE




## 3 LIGHTING INVERTER MOUNTING DETAIL

NOT TO SCALE

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district

**Long Beach Unified School District**

2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | 9216-654 |
| PTN No.: | 64725-585 |

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1545 LONG BEACH BLVD.
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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

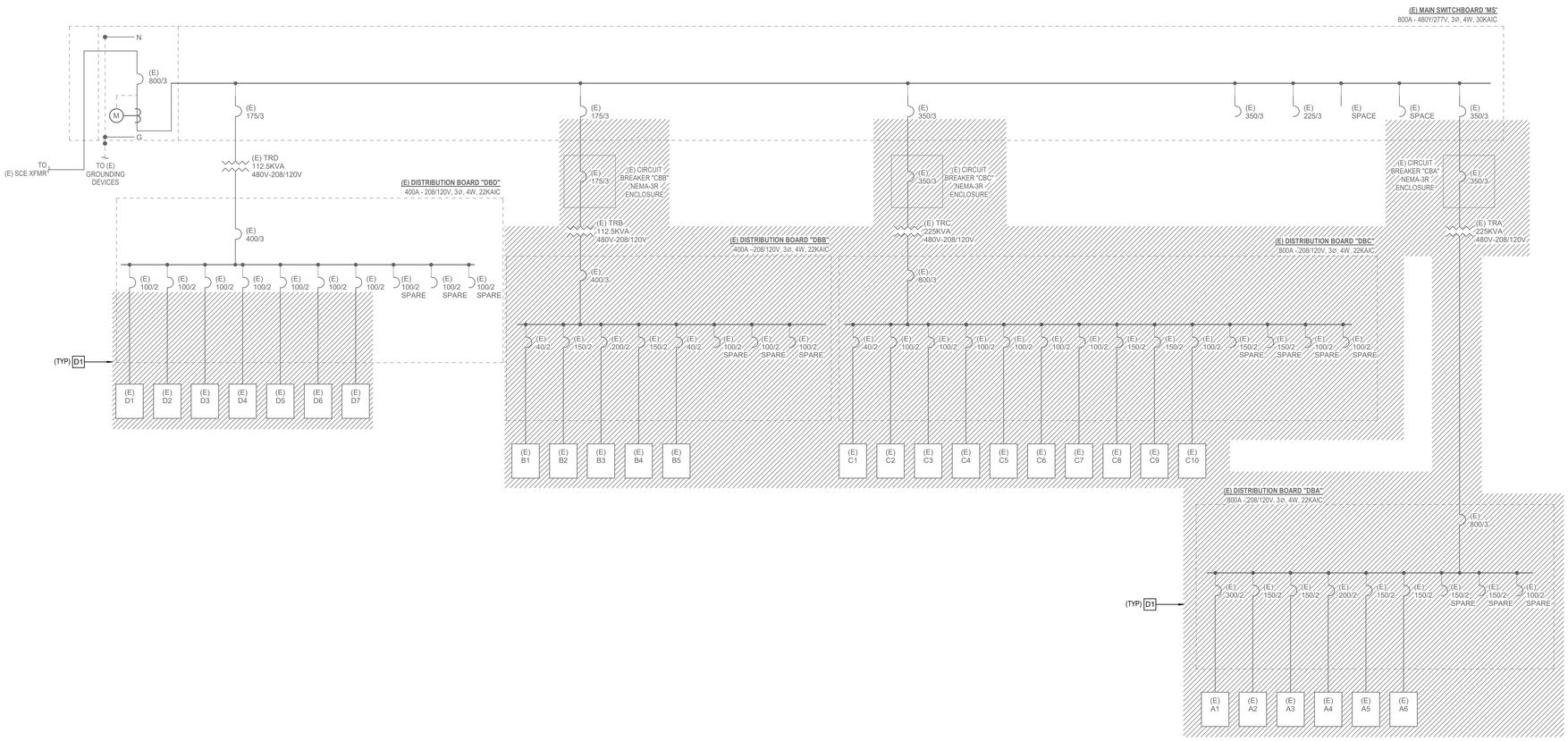
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | As indicated |
| PROJ MGR: | Author |
| DATE: | 11/21/25 |

Sheet Title

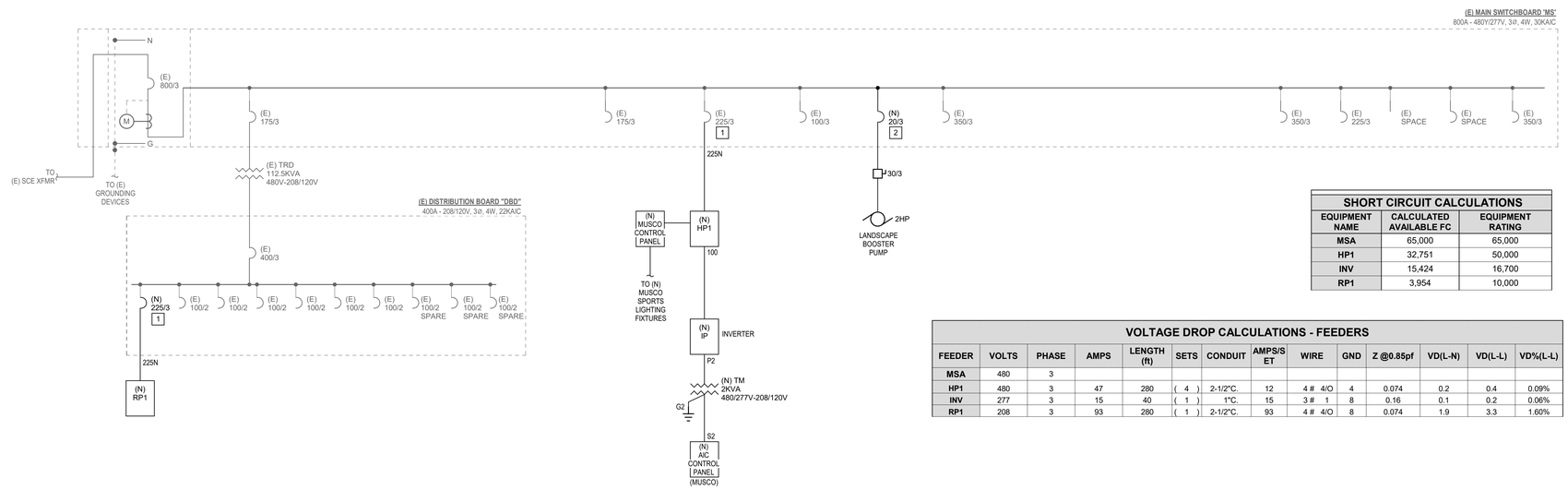
**ELECTRICAL DETAILS**

Sheet No.

**E6.1**




1 SINGLE LINE DIAGRAM - DEMOLITION
NOT TO SCALE




| SHORT CIRCUIT CALCULATIONS | | |
|---|---|---|
| EQUIPMENT NAME | CALCULATED AVAILABLE FC | EQUIPMENT RATING |
| MSA | 65,000 | 65,000 |
| HP1 | 32,751 | 50,000 |
| INV | 15,424 | 16,700 |
| RP1 | 3,954 | 10,000 |

| VOLTAGE DROP CALCULATIONS - FEEDERS | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FEEDER | VOLTS | PHASE | AMPS | LENGTH (ft) | SETS | CONDUIT | AMPS/SET | WIRE | GND | Z @0.85pf | VD(L-N) | VD(L-L) | VD%(L-L) |
| MSA | 480 | 3 | | | | | | | | | | | |
| HP1 | 480 | 3 | 47 | 280 | ( 4 ) | 2-1/2"C. | 12 | 4 # 4/O | 4 | 0.074 | 0.2 | 0.4 | 0.09% |
| INV | 277 | 3 | 15 | 40 | ( 1 ) | 1"C. | 15 | 3 # 1 | 8 | 0.16 | 0.1 | 0.2 | 0.06% |
| RP1 | 208 | 3 | 93 | 280 | ( 1 ) | 2-1/2"C. | 93 | 4 # 4/O | 8 | 0.074 | 1.9 | 3.3 | 1.60% |

2 SINGLE LINE DIAGRAM - RENOVATION
NOT TO SCALE

## GENERAL NOTES

1. EXISTING WORK SHOWN LIGHT, NEW WORK SHOWN DARK.

## DEMOLITION KEY NOTES

D1 EXISTING EQUIPMENT SHALL BE DEMOLISHED INCLUDING CONDUIT, CONDUCTORS, AND ASSOCIATED DEVICES DOWNSTREAM OF EQUIPMENT, BACK TO SOURCE. U.N.O.

5

## KEY NOTES

1 UTILIZE EXISTING CIRCUIT BREAKER TO FEED NEW EQUIPMENT INDICATED.

2 NEW CIRCUIT BREAKER TO MATCH EXISTING SWITCHBOARD MANUFACTURER AND AIC.

TRANSFORMER FEEDER SCHEDULE

| TAG NUMBER | CONDUCTOR QUANTITY AND SIZE | CONDUIT SIZE | SETS |
|---|---|---|---|
| P15 | 3#10, 1#10G | 3/4" | 1 |
| S15 | 4#6, 1#8G | 1" | 1 |
| K15 | 3#4, 1#8N, 1#8G | 1 1/4" | 1 |
| G15 | 1#8G | 1/2" | 1 |
| | | | |
| P15 | 2#8, 1#10G | 3/4" | 1 |
| S15 | 3#4, 1#8G | 1 1/2" | 1 |
| G15 | 1#6G | 3/4" | 1 |
| | | | |
| P25 | 2#6, 1#10G | 1" | 1 |
| D25 | 3#1, 1#6G | 1 1/2" | 1 |
| G25 | 1#6G | 3/4" | 1 4 |
| | | | |
| P30 | 3#6, 1#10G | 3/4" | 1 |
| S30 | 4#1, 1#6G | 1 1/2" | 1 |
| K30 | 3 #1/0, 1#2/0N, 1#6G | 2" | 1 |
| G30 | 1#6G | 1/2" | 1 |
| | | | |
| P37 | 2#1, 1#6G | 1 1/4" | 1 |
| D37 | 3#3/0, 1#4G | 3" | 1 |
| G37 | 1#4G | 3/4" | 1 |
| | | | |
| P45 | 3#4, 1#8G | 1" | 1 |
| S45 | 4#1/0, 1#6G | 1 1/2" | 1 |
| K45 | 3#2/0, 1#250, 1#4G | 2" | 1 |
| G45 | 1#6G | 1/2" | 1 |
| | | | |
| P50 | 2#1, 1#6G | 1 1/4" | 1 |
| S50 | 3#3/0, 1#3G | 2" | 1 |
| G50 | 1#3G | 3/4" | 1 |
| | | | |
| P75 | 3#1, 1#8G | 1 1/2" | 1 |
| S75 | 4#4/0, 1#2G | 2 1/2" | 1 |
| K75 | 3#4/0, 1#3/0N, 1#2G | 2 1/2" | 1 |
| G75 | 1#1/0G | 1/2" | 1 |
| | | | |
| P75 | 2#3/0, 1#6G | 2" | 1 |
| S75 | 3#3/0, 1#4G | 2" | 2 |
| G75 | 1#4G | 3/4" | 1 |
| | | | |
| P75A | 3#1, 1#8G | 1 1/2" | 1 |
| S75A | 4#4/0, 1#2G | 2 1/2" | 1 |
| G75A | 1#2G | 1/2" | 1 |
| | | | 3 |
| P112 | 3#2/0, #6G | 2" | 1 |
| S112 | 4#3/0, 1#1/0G | 2" | 2 |
| K112 | 3#4/0, 1#350N, 1#1/0G | 2 1/2" | 2 |
| G112 | 1#1/0G | 3/4" | 1 |
| | | | |
| P150 | 3#250, 1#4G | 2 1/2" | 1 |
| S150 | 4#350, 1#2/0G | 3" | 2 |
| K150 | 3#350, 2#3/0N, 1#2/0G | 3" | 2 |
| G150 | 1#2/0G | 3/4" | 1 |
| | | | |
| P167 | 2#4/0, 1#2/0G | 2" | 2 |
| S167 | 3#350, 1#3/0G | 3" | 3 |
| G167 | 1#3/0G | 3/4" | 1 |
| | | | |
| P225 | 3#500, 3#3G | 3" | 1 |
| S225 | 4#300, 1#2/0G | 3" | 1 |
| K225 | 3#350, 2#3/0, 1#1G | 3 1/2" | 3 |
| G225 | 1#2/0G | 3/4" | 1 |

FEEDER SCHEDULE

| TAG NUMBER | CONDUCTOR QUANTITY AND SIZE | CONDUIT SIZE | SETS |
|---|---|---|---|
| 30N | 4#10, 1#10G | 1" | 1 |
| 50N | 4#6, 1#10G | 1" | 1 |
| 60N | 4#6, 1#10G | 1" | 1 |
| 100 | 3#1, 1#8G | 1 1/2" | 1 |
| 100N | 4#1, 1#8G | 1 1/2" | 1 |
| 125 | 3#1, 1#6G | 1 1/2" | 1 |
| 125N | 4#1, 1#6G | 2" | 1 |
| 150 | 3#1/0, 1#6G | 1 1/2" | 1 |
| 150N | 4#1/0, 1#6G | 2" | 1 |
| 175 | 3#2/0, 1#6G | 2" | 1 2 |
| 175N | 4#2/0, 1#6G | 2" | 1 |
| 200 | 3#3/0, 1#6G | 2" | 1 |
| 200N | 4#3/0, 1#6G | 2" | 1 |
| 225 | 3#4/0, 1#4G | 2" | 1 |
| 225N | 4#4/0, 1#4G | 2 1/2" | 1 |
| 250 | 3#250, 1#4G | 2 1/2" | 1 |
| 250N | 4#250, 1#4G | 3" | 1 |
| 300 | 3#350, 1#4G | 3" | 1 |
| 300N | 4#350, 1#4G | 3" | 1 |
| 400 | 3#3/0, 1#3G | 2" | 2 |
| 400N | 4#3/0, 1#3G | 2" | 2 |
| 400S | 4#500 | 3 1/2" | 1 |
| 600 | 3#350, 1#1G | 3" | 2 |
| 600N | 4#350, 1#1G | 3" | 2 |
| 600S | 4#350 | 3" | 2 |
| 800 | 3#500, 1#1/0G | 3" | 2 |
| 800N | 4#500, 1#1/0G | 3 1/2" | 2 |
| 800S | 4#500 | 3 1/2" | 2 |
| 1000 | 3#400, 1#2/0G | 3" | 3 |
| 1000N | 4#400, 1#2/0G | 3" | 3 |
| 1000S | 4#400 | 3" | 3 |
| 1200 | 3#350, 1#3/0G | 3" | 4 |
| 1200N | 4#350, 1#3/0G | 3" | 4 |
| 1200S | 4#350 | 3" | 4 |
| 1600S | 4#400 | 3" | 5 |
| 2000S | 4#400 | 3" | 6 |
| 2500S | 4#500 | 3 1/2" | 7 |
| 3000S | 4#500 | 3 1/2" | 8 |
| 4000S | 4#500 | 3 1/2" | 11 |

NOTE: NOT ALL FEEDERS WILL BE USED ON THIS PROJECT

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 11/21/25

Sheet Title

**SINGLE LINE DIAGRAMS**

Sheet No.

**E7.1**

# DEVICE SCHEDULE

| SYMBOL | DESCRIPTION | MODEL | MANUFACTURER | BACKBOX | MOUNTING HEIGHT | C.S.F.M. NUMBER |
|---|---|---|---|---|---|---|
| FACP | FIRE ALARM CONTROL PANEL | NFW2-100X w/ XRM-24B | NOTIFIER | NFW2-100-BB w/ DP-9692B | 66" A.F.F. TO TOP | 7165-0028:0505 |
| | BATTERIES 12V 18.0 A.H. | BAT-12180 | NOTIFIER | INSIDE FACP | VERIFY IN FIELD | N/A |
| VCP | EMERGENCY VOICE CONTROL PANEL | NFC-50/100 | NOTIFIER | PROVIDED | 66" A.F.F. TO TOP | 6911-0028:0265 |
| | BATTERIES 12V 18.0 A.H. | BAT-12180 | NOTIFIER | INSIDE FACP | VERIFY IN FIELD | N/A |
| FAA | FIRE ALARM ANNUNCIATOR PANEL | N-ANN-80-W (WHITE) | NOTIFIER | 4S DEEP BOX W/ 2 GANG RING | 66" A.F.F. TO TOP | 7120-0028:0240 |
| SRD | SYSTEM RECORD DOCUMENTS CABINET | SSU00689 (ACE-11) | SPACE AGE ELECTRONICS | PROVIDED | 66" A.F.F. TO TOP | 7300-0553:0110 |
| CCFC | CELLULAR COMMERCIAL FIRE COMMUNICATOR | SLE-MAX2-FIRE (DUAL PATH) | NAPCO | PROVIDED | 66" A.F.F. TO TOP | 7300-0992:0503 |
| F | MANUAL PULL STATION | NBG-12LX | NOTIFIER | 4S DEEP BOX W/ SINGLE GANG RING | 48" A.F.F. TO CENTER OF BOX | 7150-0028:0199 |
| (I) F | AREA HEAT DETECTOR (ADDRESSABLE) | FST-951 B300-6 | NOTIFIER | 4S DEEP BOX W/ 3-0 RING | CEILING MOUNTED | 7270-0028:0196 7300-1653:0109 |
| (S) P | AREA SMOKE DETECTOR (ADDRESSABLE - PHOTO) | FSP-951 B300-6 | NOTIFIER | 4S DEEP BOX W/ 3-0 RING | CEILING MOUNTED | 7272-0028:0503 7300-1653:0109 |
| S WP | WEATHERPROOF SPEAKER | SPSWK (WHITE) | SYSTEM SENSOR | BACKBOX PROVIDED | 90" A.F.F. TO BOTTOM | 7320-1653:0201 |
| XXcd | FIRE ALARM CEILING SPEAKER/STROBE | SPSCWL (WHITE) | SYSTEM SENSOR | 4S DEEP BOX W/ 4S EXTENSION | CEILING | 7320-1653:0505 |
| PB | FIRE ALARM PULL BOX | N/A | BY ELECTRICIAN | 4S BOX U.O.N. | VERIFY IN FIELD | N/A |
| J | FIRE ALARM JUNCTION BOX | N/A | BY ELECTRICIAN | 4S BOX U.O.N. | VERIFY IN FIELD | N/A |
| FATC | FIRE ALARM TERMINAL CABINET | N/A | BY ELECTRICIAN | 24 x 24 x 6 U.O.N. | VERIFY IN FIELD | N/A |

# LEGENDS

| ABBREVIATION | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|---|---|---|---|
| A OR AMP | AMPERES | NIC | NOT IN CONTRACT |
| AFF | ABOVE FINISHED FLOOR | NO | NUMBER |
| AIC | AMPERES INTERRUPTING CAPACITY | PH. ORO | PHASE |
| ARCH | ARCHITECT; ARCHITECTURAL | PNL | PANEL |
| AWG | AMERICAN WIRE GAUGE | PWR | POWER |
| C | CONDUIT | REC/RECEPT | RECEPTACLE |
| CKT | CIRCUIT | REQD | REQUIRED |
| CL. | CEILING MOUNTED DEVICE | RM | ROOM |
| C.O. | CONDUIT ONLY WITH PULL WIRE | SF | SQUARE FEET |
| CU | COPPER | SHT | SHEET |
| DWG | DRAWING | SP | SINGLE POLE |
| ER | EXISTING DEVICE TO BE REMOVED | SPECS | SPECIFICATIONS |
| EMT | ELECTRICAL METALLIC TUBING | SW | SWITCH |
| EQUIP EXIST / (EX) | EXISTING | TYP | TYPICAL |
| FIN. | FINISH | UG | UNDERGROUND |
| FLR | FLOOR | U.O.N. | UNLESS OTHERWISE NOTED |
| FT | FEET | V | VOLTS |
| GFI | GROUND FAULT INTERRUPTER | V-A | VOLT-AMPERES |
| GND | GROUND | W | WATTS |
| LTG. | LIGHTING | W/ | WITH |
| MTG | MOUNTING | W/O | WITHOUT |
| N | NEW | WP | WEATHERPROOF |

*NOT ALL ABBREVIATIONS WILL APPLY

*NOT ALL ABBREVIATIONS WILL APPLY

# FIRE WATCH NOTE

A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE. A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE) PER DSA IR F-2 AND CFC 901.7.

# SCOPE OF WORK

FIRE ALARM CONTRACTOR SERVICES WILL PROVIDE:

-FIRE ALARM CONTROL PANEL
-VOICE EVACUATION SYSTEM
-AREA SMOKE/HEAT DETECTION
-SMOKE DETECTOR ABOVE FACP
-AUDIBLE & VISUAL NOTIFICATION
-DIALER FOR REMOTE MONITORING (24HR ATTENDED LOCATION)
-CELLULAR COMMERCIAL FIRE COMMUNICATOR
-SYSTEM RECORD DOCUMENTS CABINET

*THIS IS A NEW FIRE ALARM SYSTEM SUBMITTAL
SURVIVABILITY: (0) CIRCUIT CLASS: (B)

*THIS IS A CORE BUILDING SUBMITTAL. ALL FUTURE TENANT IMPROVEMENTS TO BE SUBMITTED AND PROVIDED UNDER SEPARATE CONTRACT PLANS AND PERMITS.

*THIS IS A NEW FIRE ALARM SYSTEM SUBMITTAL. ALL FUTURE TENANT IMPROVEMENTS TO BE SUBMITTED AND PROVIDED UNDER SEPARATE CONTRACT PLANS AND PERMITS.

ALL NEW ADDRESSABLE DEVICES WILL BE CONNECTED TO THE FIRE ALARM CONTROL PANEL INTELLIGENT LOOP. ALL VISUAL & AUDIBLE/VISUAL DEVICES WILL BE CONNECTED TO NOTIFICATION APPLIANCE CIRCUITS FROM THE FIRE ALARM CONTROL PANEL OR REMOTE POWER SUPPLIES, AND WILL BE SYNCHRONIZED IN ACCORDANCE WITH NFPA STANDARDS. ALL DEVICES ARE TO BE COMPATIBLE WITH THE HEAD-END EQUIPMENT AND OTHER DEVICES. ALL DEVICES WILL HAVE A TEXTUAL DISPLAY ON THE FIRE CONTROL PANEL DESCRIBING TYPE OF DEVICE AND LOCATION.

# SEQUENCE OF OPERATION

## System Outputs

ANNUNCIATION | NOTIFICATION | AUXILIARY CONTROL FUNCTION | SUPPLEMENTARY FUNCTION

- A: ACTIVATE CONTROL PANEL ALARM BUZZER AND LED
- B: ACTIVATE CONTROL PANEL TROUBLE BUZZER AND LED
- C: ACTIVATE CONTROL PANEL SUPERVISORY BUZZER AND LED
- D: ANNUNCIATE AT REMOTE FIRE ALARM ANNUNCIATOR
- G: TRANSMIT SIGNAL TO CENTRAL STATION (24HR ATTENDED LOC.)
- H: ACTIVATE AUDIBLE/VISUAL DEVICES THROUGHOUT BUILDING
- I: ACTIVATE SPRINKLER ALARM DEVICE
- M: NOTIFY FIRE DEPARTMENT VIA CENTRAL STATION

## System Inputs

| # | INPUT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | BB | CC | DD | EE | FF | GG | HH | II | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MANUAL PULL STATION | ● | | | ● | | | ● | ● | | | | | ● | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 2 | AREA SMOKE DETECTOR | ● | | | ● | | | ● | ● | | | | | ● | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 3 | AREA HEAT DETECTOR | ● | | | ● | | | ● | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| 5 | FACP 120VAC POWER FAILURE | | ● | | ● | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| 6 | SYSTEM DEVICE WIRING TROUBLE/FAULT | | ● | | ● | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| 7 | GROUND FAULT | | ● | | ● | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| 8 | CELLULAR COMMERCIAL FIRE COMMUNICATOR | ● | ● | | ● | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |

# APPLICABLE CODES

*LIST OF APPLICABLE CODES:*
2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

*PARTIAL LIST OF APPLICABLE CODES:*
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2022 EDITION
NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT; 2015 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2019 EDITION UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES; 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED; 2018 EDITION (R2010)
FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS
CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

# MEP COMPONENT ANCHORAGE NOTES

1. ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

   A. ALL PERMANENT EQUIPMENT AND COMPONENTS.

   B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

   C. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

2. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUND PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

3. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

# PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED THE BELOW AND SHALL BE IN ACCORDANCE WITH DSA IR 16-13. EACH SYSTEM SHALL BE DESIGNED BY A STRUCTURAL ENGINEER AND COORDINATED WITH THE STRUCTURAL BUILDING DESIGN.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☒ IR 16-13 SECTION 2.1: PROJECT SPECIFIC DESIGN

SHEET NUMBER(S): FA6.1

MP ☐ MD ☐ PP ☐ E ☐ IR 16-13 SECTION 2.2: DESIGN BASED ON OSHPD OPM, PART OF PROJECT SUBMITTAL

OPM NUMBER(S):
SHEET NUMBER(S):

MP MD PP E IR 16-13 SECTION 2.2.6: DESIGN BASED ON OSHPD DEFERRED APPROVAL.

# WIRE SCHEDULE

| WIRE DESIGNATION | WIRE IN CONDUIT | UNDERGROUND/WET WIRE DESIGNATION | WIRE IN CONDUIT UNDERGROUND/WET LOC. |
|---|---|---|---|
| ANNUN. PWR B | (2) #14 STRANDED TYPE THHN | ANNUN. PWR BU | (2) #14 STRANDED TYPE THWN |
| ANNUN. DATA D | 2 CONDUCTOR #18 FPL SOLID TWISTED/SHIELDED WEST PENN (.035 sq.in.) #D975 | ANNUN. DATA DU | 2 CONDUCTOR #16 FPL STRANDED TWISTED/SHIELDED WEST PENN (.084 sq.in.) #AQ294 |
| 24V POWER P | (2) #14 STRANDED TYPE THHN | POWER CKT. PU | (2) #14 STRANDED TYPE THWN |
| SPEAKER CKT. S | (2) #14 STRANDED TYPE THHN TWISTED | SPEAKER CKT. SU | (2) #14 STRANDED TYPE THWN TWISTED |
| AUD/VIS CKT. V | (2) #12 STRANDED TYPE THHN | VISUAL VU | (2) #12 STRANDED TYPE THWN |
| ADDRESS. LOOP Z | 2 CONDUCTOR #16 FPL SOLID TWISTED/UNSHIELDED WEST PENN (.039 sq.in.) #D990 | ADDRESS. LOOP ZU | 2 CONDUCTOR #16 FPL STRANDED TWISTED/UNSHIIELDED WEST PENN (.068 sq.in.) #AQ225 |

NOTE: ALL WIRE MODEL NUMBERS ARE WEST PEEN. EQUIVALENT BY OTHER MANUFACTURER IS ACCEPTABLE.

# FIRE ALARM REQUIREMENTS

THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE FIRE ALARM SYSTEM. THE SUBMITTAL SHALL CONTAIN THE FOLLOWING:

A. SHOP DRAWINGS: COMPLETE 1/8" SCALE FLOOR PLANS SHOWING ALL DEVICES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF BID SET FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE MOUNTING HEIGHTS, ROOM NAMES AND NUMBERS AND THE LOCATION OF ALL FIRE RATED WALLS.
B. ELECTRICAL CONTRACTOR'S AND FIRE ALARM SYSTEM INSTALLER'S NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER.
C. LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURERS' MODEL NUMBER(S) AND CALIFORNIA STATE FIRE MARSHALL LISTING NUMBERS.
D. ORIGINAL COPIERS OF MANUFACTURERS' SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES INDICATED
E. VOLTAGE DROP CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION FOR THE WORST CASE:
1. POINT-TO-POINT OR OHMS LAW CALCULATIONS.
2. IDENTIFICATION OF ZONE USED IN CALCULATIONS
3. VOLTAGE DROP PERCENT (NOT TO EXCEED MANUFACTURERS' REQUIREMENTS).
a. NOTE: IF VOLTAGE DROP EXCEEDS 10%, INDICATE MANUFACTURERS LISTED OPERATING RANGE(S) OR EQUIPMENT AND DEVICES.
4. NOTE CIRCUIT NUMBER FOR WORST CASE CALCULATIONS.
F. BATTERY TYPE(S), AMPS HOURS AND LOAD CALCULATIONS -- INCLUDE THE FOLLOWING INFORMATION:
1. NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER -- I.E.:
A. ZONE MODULES
B. DETECTORS
C. OTHER DEVICES (IDENTIFY)
2. ALARM CONDITION: 100% OF APPLICABLE DEVICES FOR 15 MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY POWER - I.E.:
a. ZONE MODULES
b. SIGNAL MODULES
c. DETECTORS
d. SIGNAL DEVICES
e. ANNUNCIATOR
f. OTHER DEVICES (IDENTIFY)
3. NORMAL OPERATION + ALARM OPERATION
a. TOTAL AMP HOURS REQUIRED.
b. TOTAL AMP HOURS PROVIDED.
10% OF EXISTING FIRE ALARM DEVICES AND APPLIANCES SHALL BE ADDED TO THE NEW FIRE ALARM DEVICES AND APPLIANCES FOR TESTING.

# DRAWING INDEX


| SHEET | DESCRIPTION |
|---|---|
| FA000 | FIRE ALARM SYMBOLS, LEGENDS & GENERAL NOTES |
| FA101 | FIRE ALARM SITE PLAN |
| FA201 | FIRE ALARM FLOOR PLAN |
| FA501 | FIRE ALARM RISER DIAGRAM |
| FA601 | FIRE ALARM DETAILS |


# GENERAL NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM THE FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN THE SAME VIEW OF EACH OTHER SHALL BE SYNCHRONIZED.
14. 14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLR OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 7.8.2(a).
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 907.6.6.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
27. THE AUDIBLE CARBON MONOXIDE ALARM SIGNAL SHALL BE A FOUR-PULSE TEMPORAL PATTER AND COMPLY WITH THE FOLLOWING:
(1) SIGNALS SHALL BE A PATTER CONSISTING OF FOUR CYCLES OF 100 MILLISECONDS +/- 10 PERCENT "ON" AND 100 MILLISECONDS +/- 10 PERCENT "OFF".
(2) AFTER THE INITIAL 4 MINUTES OF ALARM, THE 5-SECOND "OFF" TIME SHALL BE PERMITTED TO BE CHANGED TO 60 SECONDS +/- 10 PERCENT.
(3) THE ALARM SIGNAL SHALL BE REPEATED IN COMPLIANCE WITH NFPA 72 18.4.3.2(1)(2)(3)(4) UNTIL THE ALARM RESETS OR THE ALARM SIGNAL IS MANUALLY SILENCED.
28. A CARBON MONOXIDE ALARM SIGNAL SHALL TAKE PRECEDENCE OVER SUPERVISORY OR TROUBLE SIGNALS. (NFPA 72, 26.2.4.1) THE ACTUATION OF A CARBON MONOXIDE DETECTOR OR SYSTEM SHALL BE DISTINCTIVELY INDICATED AS A CARBON MONOXIDE ALARM SIGNAL. (NFPA 72, 26.2.4.1.2)
29. ALL EQUIPMENT SHALL BE NEW, UNDERWRITERS LABORATORY AND CALIFORNIA STATE FIRE MARSHAL LISTED.
30. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLESHOOTING, ETC.
31. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
32. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES, AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR IN ACCORDANCE WITH CMC §608.
33. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
34. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
35. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
36. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED PER THE MANUFACTURER'S INSTRUCTIONS.
37. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
38. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
39. POINT, COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED.
40. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
41. MINIMUM CONDUIT SIZE BE 3/4", UNLESS OTHERWISE NOTED.
42. ALL FIRE SPRINKLER WATER FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE.
43. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
44. FIRE ALARM SYSTEM SHALL BE UL LISTED (UUJS).
45. CBC 907.6.6.4 GROUP E SCHOOLS: AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.6.2.
46. SUBSTITUTION OF SYSTEM COMPONENTS OR MANUFACTURER WILL REQUIRE THE CONTRACTOR TO SEPARATELY OBTAIN APPROVAL WITH THE CSFM AT CONTRACTOR'S EXPENSE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE CALIFORNIA STATE FIRE MARSHAL.
47. FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SUPERVISING STATION.
48. COORDINATE WITH THE ENGINEER FOR USE OF EXISTING CONDUIT ON A CASE BY CASE BASIS.
49. PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST THE INTERCOM SYSTEM TO ENSURE FULL FUNCTIONALITY. GENERATE A LIST OF FAULTY EQUIPMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EQUIPMENT REPAIRS OR REPLACEMENT.
50. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM SYSTEM FROM THE EXISTING INTERCOM SYSTEM. ENSURE THE INTERCOM SYSTEM IS COMPLETELY FUNCTIONAL AFTER DISCONNECTION.
51. CONTRACTOR SHALL CLEARLY MARK THE ABANDON SECTION OF PUBLIC ADDRESS SYSTEM.
52. PROVIDE A FIRE ALARM DOCUMENTATION CABINET PER NFPA72,7.7.
53. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
54. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS,DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (CAC 4-317(C)).
55. CHANGES TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE - SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON CAC 4-338(C)).
56. PROJECT INSPECTOR TO APPROVE SYSTEM VOICE-EVACUATION INTELLIGIBILITY DURING TESTING PHASE.
57. CONTRACTOR SHALL PROVIDE ALL CABLING, RELAYS, MOUNTING HARDWARE AND ANY OTHER DEVICES (FIRE ALARM SYSTEM DEVICES) TO PROVIDE A FULLY FUNCTIONING FIRE ALARM OVERRIDE SYSTEM. WHEN FIRE ALARM CEASES, EACH LOCAL SOUND SYSTEM SHALL AUTOMATICALLY REVERT TO NORMAL OPERATION. FIRE ALARM MODULES AND CABLING BY FIRE ALARM CONTRACTOR.
58. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
59. NOTIFICATION APPLIANCES USED FOR SIGNALING OTHER THAN FIRE SHALL NOT HAVE THE WORD "FIRE" OR ANY FIRE SYMBOL, IN ANY FORM (I.E., STAMPED, IMPRINTED, ETC. ) ON THE APPLIANCE VISIBLE TO THE PUBLIC.NOTIFICATION APPLIANCES WITH MULTIPLE VISIBLE ELEMENTS SHALL BE PERMITTED TO HAVE FIRE MARKING ONLY ON THOSE VISIBLE ELEMENTS USED FOR FIRE SIGNALING. PER NFPA 72, 18.3.3.2/ NFPA 720, 6.3.3.2/ IR 9-2, 5.4.4 & 5.4.5.
60. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.6.2.
61. THE NEW PROJECT SUBMITTAL TO INCLUDE DIRECTION THAT FIRE ALARM SYSTEM RECORD OF COMPLETION AND FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING FORM THESE TWO DOCUMENTS FROM NFPA 72 ARE TO BE COMPLETED AND SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT. A COPY OF COMPLETED AND SIGNED FORM SHALL BE GIVEN TO THE ARCHITECT OR ENGINEER OF RECORD, THE PROJECT INSPECTOR, THE OWNER (SCHOOL DISTRICT) AND LOCAL FIRE AUTHORITY.
62. INTELLIGIBILITY SHALL BE TESTED ACCORDING TO NFPA 72 ANNEX D.2 (SPEECH INTELLIGIBILITY).
63. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
64. A WRITTEN SITE SAFETY PLAN IN COMPLIANCE WITH CFC 3303.1.1 MUST BE PREPARED AND AVAILABLE ON SITE PRIOR TO COMMENCEMENT OF ANY MOBILIZATION, DEMOLITION AND/OR CONSTRUCTION.

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client


long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810


LBUSD No.: 9216-654
PTN No.: 64725-585

Stamps

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**IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

Sheet Info

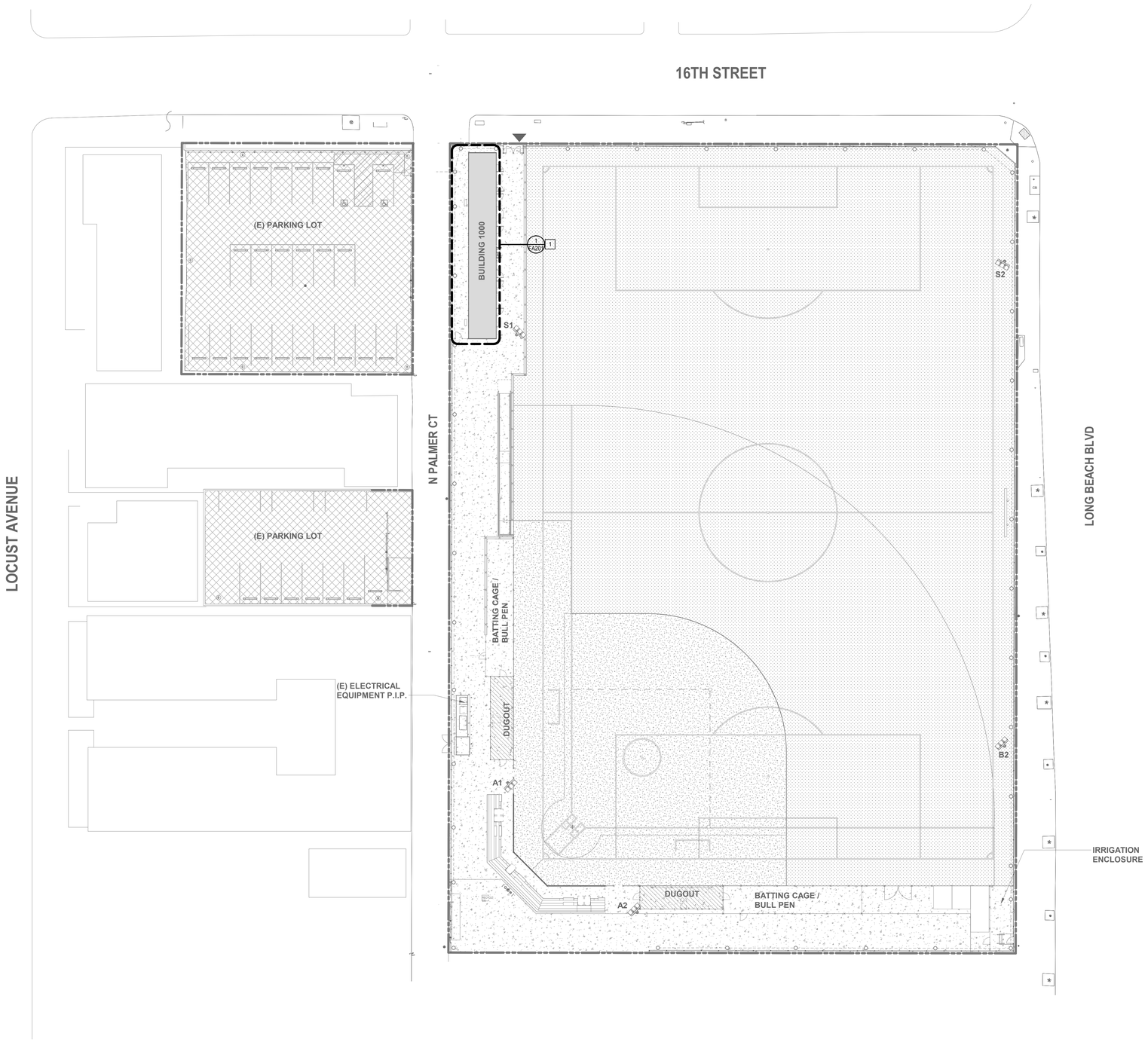
JOB No.: 240469
SCALE: 12" = 1'-0"
PROJ MGR: Author
DATE: 06/24/25

Sheet Title

**FIRE ALARM SYMBOLS, LEGENDS & GENERAL NOTES**

Sheet No.

**FA000**




1 FIRE ALARM OVERALL SITE PLAN
1" = 20'-0"

## GENERAL NOTES

A. ALL EXISTING FIRE ALARM DEVICES ARE TO BE SALVAGED AND TURNED OVER TO THE DISTRICT. ALL EXISTING WIRING WILL BE REMOVED AND REPLACE.

B. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS

C. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO EXISTING UTILITIES AND SYSTEMS THAT OCCURS DURING DEMOLITION AND CONSTRUCTION. TAKE ALL PRECAUTIONS REQUIRED TO PROTECT EXISTING TO REMAIN HEAD ENDS PRIOR TO FIELD DEVICE REMOVAL.

D. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT FOR DEMOLITION AND CONSTRUCTION SCOPE PHASING.

E. OWNER RETAINS FIRST RIGHT OF SALVAGE FOR ALL REMOVED DEVICES AND CABLING. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS REJECTED BY THE OWNER.

F. ALL EXISTING DIVISION 27 AND 28 SYSTEM HEAD-ENDS TO REMAIN FUNCTIONAL THROUGHOUT CONSTRUCTION UNLESS OTHERWISE NOTED.

G. FOR ALL REMOVED DEVICES, ALL EXISTING CABLING SHALL BE REMOVED BACK TO SOURCE UNLESS NOTED OTHERWISE.

H. ALL CEILING TILES DAMAGED DURING THE COURSE OF CONSTRUCTION DUE TO DEVICE REMOVAL SHALL BE REPLACED WITH NEW. NEW CEILING TILES SHALL MATCH EXISTING. WHERE NEW CEILING TILES DO NOT MATCH EXISTING, CONTRACTOR SHALL REPLACE CEILING TILES IN THE ENTIRE AREA WITH NEW.

I. FOR ALL REMOVED WALL MOUNT DEVICES THAT ARE NOT BEING REPLACED WITH A NEW DEVICE IN THE SAME LOCATION, PROVIDE AN ADEQUATELY SIZED STAINLESS STEEL BLANK COVER THAT COVERS THE ENTIRE BACK BOX WALL OPENING. PATCH AND PAINT TO MATCH SURFACE AS REQUIRED, INCLUDING REMOVED SCREW HOLES.

J. PRIOR TO DEMOLITION, CONTRACTOR SHALL VERIFY THE FUNCTIONALITY OF ALL DIVISION 27 AND 28 SYSTEM COMPONENTS TO REMAIN IN AREAS OF CONSTRUCTION SCOPE. PROVIDE A WRITTEN REPORT OF FAULTY OR DAMAGED EXISTING EQUIPMENT TO THE ARCHITECT AND ENGINEER THAT REQUIRES REPAIR OR REPLACEMENT.

K. UPON AHJ CERTIFICATION OF A NEW OR UPGRADED FIRE ALARM SYSTEM, ALL EXISTING TO BE REMOVED FIRE ALARM COMPONENTS AND CABLING SHALL REMOVED BACK TO SOURCE.

L. A FIRE WATCH SHALL BE ESTABLISHED AND THE FIRE DEPARTMENT & FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS RENDERED OUT OF SERVICE A FIRE WATCH SHALL BE STAGED WHENEVER THE BUILDING IS OCCUPIED (PARTIAL OR WHOLE).

M. ALL INDOOR SPEAKERS TO BE TAPPED AT 1/2 WATT.

N. ALL OUTDOOR SPEAKERS TO BE TAPPED AT 2 WATT.

## KEY NOTES

1 AREA OF WORK

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | 9216-654 |
| PTN No.: | 64725-585 |

Stamps

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1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

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DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
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Sheet Info.

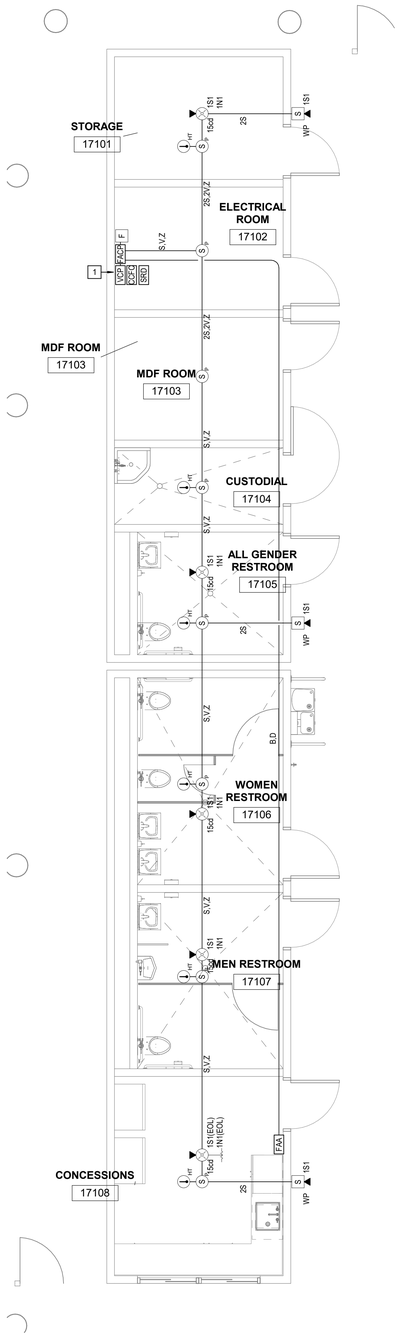
| | |
|---|---|
| JOB No.: | 240469 |
| SCALE: | 1" = 20'-0" |
| PROJ MGR: | Author |
| DATE: | 06/24/25 |

Sheet Title

FIRE ALARM SITE PLAN

Sheet No.

FA101




1 FIRE ALARM FLOOR PLAN
1/4" = 1'-0"

## GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS
2. DEVICE LOCATIONS AND QUANTITIES SHOWN ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM PER IBC, IFC, NFPA 72 AND AHJ REQUIREMENTS.
3. VERIFY PROPER LOCATION OF DEVICES PRIOR TO INSTALLATION.
4. PROVIDE WEATHERPROOF DEVICES IN ALL EXTERIOR, HIGH HUMIDITY AND WET AREAS (FREEZER / COOLER, SHOWERS, ETC.).
5. PROVIDE WIREGUARDS ON ALL DEVICES INSTALLED IN GYMNASIUMS.
6. PROVIDE A RELAY AT EVERY LOCAL SOUND RACK IN THE PROJECT TO PROVIDE FOR MUTING OR SHUT DOWN OF LOCAL SOUND SYSTEM IN AN ALARM EVENT. ROUTE FIRE ALARM CABLING INTO THE LOCAL SOUND RACK. COORDINATE WITH LOCAL SOUND CONTRACTOR.
7. ALL INDOOR SPEAKERS TO BE TAPPED AT 1/2 WATT.
8. ALL OUTDOOR SPEAKERS TO BE TAPPED AT 2 WATT.
9. IALL EXISTING FIRE ALARM DEVICES ARE TO BE SALVAGED AND TURNED OVER TO THE DISTRICT. ALL EXISTING WIRING WILL BE REMOVED AND REPLACE.
10. RUN FIRE ALARM CABLES IN CONDUIT CONCEALED IN WALLS AND CEILING WHEN POSSIBLE. EXPOSED CONDUITS ARE NOT ACCEPTABLE.
11. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36 IN. (910 MM) HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS PER NFPA 72.
12. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.

5

## KEY NOTES

4

1 INDICATES LOCATION OF FACP. PROVIDE DEDICATED CIRCUIT WITH APPROVED LOCK-ON DEVICE ON THE CIRCUIT BREAKER AND A RED INDICATOR ON THE ELECTRICAL PANEL (PER NFPA 72).

3

2

1

G F E D C B A

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Sheet Title

**FIRE ALARM FLOOR PLAN**

Sheet No.

**FA201**

BATTERY SIZING CALCULATION 02/20/26

POLYTECHNIC HIGH SCHOOL
MAIN FIRE ALARM CONTROL PANEL

| Quantity | Device Type | Model Number | Standby Current | Total Standby Current | Alarm Current | Total Alarm Current |
|---|---|---|---|---|---|---|
| 1 | NFW-100X | NFW-100X | 0.25500 | 0.25500 | 0.32500 | 0.32500 |
| 6 | Heat Det | FST-951 | 0.00020 | 0.00120 | 0.00200 | 0.01200 |
| 1 | Pull Station | NBG-12LX | 0.00038 | 0.00038 | 0.00688 | 0.00688 |
| 8 | Smoke Det | FSP-951 | 0.00020 | 0.00160 | 0.00200 | 0.01600 |
| 5 | S/S (Strobe ONLY) | SPSCWL (15cd) | 0.00000 | 0.00000 | 0.04100 | 0.20500 |
| 1 | ANN | N-ANN-80 | 0.03700 | 0.03700 | 0.04000 | 0.04000 |
| 1 | Communicator | SLE-MAX2-FIRE | 0.08500 | 0.08500 | 0.32500 | 0.32500 |
| | | | | Standby Load | | Alarm Load |
| | | | | 0.380 | | 0.930 |

| | | | |
|---|---|---|---|
| Standby Load: | 0.380 Amps | Alarm Load: | 0.930 Amps |
| Standby Time: | 24 Hours | Alarm Time: | 15 Minutes |
| Total Standby Load: | 9.12 Amp*Hours | Total Alarm Load: | 0.23 Amp*Hours |
| Batteries Provided: | (2) BAT-12180 | **Available Battery:** | **13.50** A.H. |
| Battery Size: | 18.00 A.H. | **Load (ALM + STBY)** | **9.36** A.H. |
| De-Rated Size(75%): | 13.50 A.H. | **Spare Capacity** | **4.14** A.H. |

BATTERY SIZING CALCULATION 02/20/26

POLYTECHNIC HIGH SCHOOL
VOICE CONTROL PANEL

| Quantity | Device Type | Model Number | Standby Current | Total Standby Current | Alarm Current | Total Alarm Current |
|---|---|---|---|---|---|---|
| 1 | NFC-50/100 | NFC-50/100 | 0.27200 | 0.27200 | 0.44600 | 0.44600 |
| 5 | S/S (Strobe ONLY) | SPSCWL (15cd) | 0.00000 | 0.00000 | 0.04100 | 0.20500 |
| | | | | Standby Load | | Alarm Load |
| | | | | 0.272 | | 0.651 |

| | | | |
|---|---|---|---|
| Standby Load: | 0.272 Amps | Alarm Load: | 0.651 Amps |
| Standby Time: | 24 Hours | Alarm Time: | 15 Minutes |
| Total Standby Load: | 6.53 Amp*Hours | Total Alarm Load: | 0.16 Amp*Hours |
| Batteries Provided: | (2) BAT-12180 | **Available Battery:** | **13.50** A.H. |
| Battery Size: | 18.00 A.H. | **Load (ALM + STBY)** | **6.69** A.H. |
| De-Rated Size(75%): | 13.50 A.H. | **Spare Capacity** | **6.81** A.H. |

VOLTAGE DROP CALCULATION 09/26/25

POLYTECHNIC HIGH SCHOOL
FIRE ALARM CONTROL PANEL

**SYSTEM SENSOR**

| | DEVICE CURR. (AMPS) | SIGNAL CIRCUIT QTY | CURR. | SIGNAL CIRCUIT QTY | CURR. | SIGNAL CIRCUIT QTY | CURR. | SIGNAL CIRCUIT QTY | CURR. | QTY TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| **Speaker/Strobe (Strobe ONLY)** | | | | | | | | | | |
| SPSCWL (15cd) | 0.041 | 5 | 0.205 | | 0.000 | | 0.000 | | 0.000 | 5 |
| TOTAL CURRENT ON CIRCUIT | | 0.205 | AMPS | 0.000 | AMPS | 0.000 | AMPS | 0.000 | AMPS | |
| TOTAL WIRE LENGTH | | FT | | FT | | FT | | FT | | |
| WIRE SIZE | | 12 | AWG | 12 | AWG | 12 | AWG | 12 | AWG | |
| CIRCULAR MILS | | 6530 | CIRC MILS | 6530 | CIRC MILS | 6530 | CIRC MILS | 6530 | CIRC MILS | |
| VOLTAGE DROP | | 0.10 | VOLTS | 0.00 | VOLTS | 0.00 | VOLTS | 0.00 | VOLTS | |
| VOLTAGE @ END OF CIRCUIT | | **20.30** | VOLTS | | VOLTS | | VOLTS | | VOLTS | |
| CIRCUIT LOCATION | | | | | | | | | | |

VOLTAGE DROP = $\frac{\text{TOTAL CURRENT x DISTANCE x 21.6}}{\text{CIRCULAR MILS}}$

CIRC. MILS
18 AWG = 1620
16 AWG = 2580
14 AWG = 4110
12 AWG = 6530

VOLTAGE @ END OF CIRCUIT = STARTING CIRCUIT VOLTAGE - VOLTAGE DROP

LISTED CIRCUIT VOLTAGE = 24V
STARTING CIRCUIT VOLTAGE = 20.4V (85% LISTED VOLTAGE)

OPERATING VOLTAGE RANGE FOR 24V NOTIFICATION APPLIANCES TO BE 16V-33V

dB LINE LOSS CALCULATION 09/26/25

POLYTECHNIC HIGH SCHOOL
FIRE ALARM CONTROL PANEL

**SPEAKERS**

| | DEVICE POWER (WATTS) | SIGNAL CKT QTY | WATTS | SIGNAL CKT QTY | WATTS | SIGNAL CKT QTY | WATTS | SIGNAL CKT QTY | WATTS | QTY TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| **Speaker 70.7V** | | | | | | | | | | |
| Speaker - 1/2 Watt Tap | 0.50 | 5 | 2.50 | | 0.00 | | 0.00 | | 0.00 | 5 |
| Speaker - 2 Watt Tap | 2.00 | 3 | 6.00 | | 0.00 | | 0.00 | | 0.00 | 3 |
| TOTAL POWER ON CIRCUIT | | 8.50 | WATTS | 0.00 | WATTS | 0.00 | WATTS | 0.00 | WATTS | |
| LOAD RESISTANCE | | 588 | OHMS | 0 | OHMS | 0 | OHMS | 0 | OHMS | |
| TOTAL WIRE LENGTH | | 200 | FT. | | FT. | | FT. | | FT. | |
| WIRE SIZE | | 16 | AWG | 16 | AWG | 16 | AWG | 16 | AWG | |
| TOTAL WIRE RESISTANCE | | 2.032 | OHMS | 0 | OHMS | 0 | OHMS | 0 | OHMS | |
| POWER LINE LOSS (dB) | | **-0.01** | dB | | dB | | dB | | dB | |
| CIRCUIT LOCATION | | | | | | | | | | |

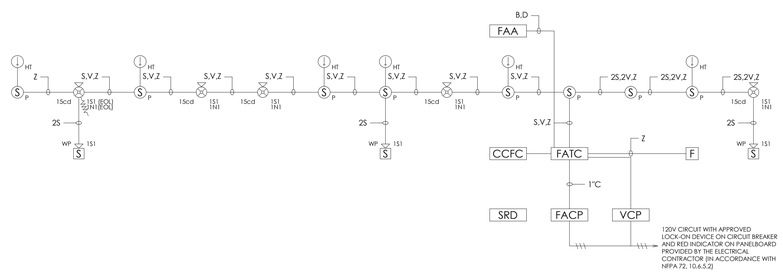
TOTAL WIRE RESISTANCE (WR)= (RESISTANCE / 1000) x DISTANCE

WIRE RESISTANCE (Ohms/Kft)*
18 AWG = 8.08
16 AWG = 5.08
14 AWG = 3.19
12 AWG = 2.01
*Values per NFPA 70

LOAD RESISTANCE (LR)= $\frac{\text{(VOLTAGE x VOLTAGE)}}{\text{POWER}}$

POWER LINE LOSS (dB) = 10 x Log (1- (WR / (WR+LR))

ROOF FLOOR




BASEMENT FLOOR

1 RISER DIAGRAM
1/8" = 1'-0"

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Sheet Info

JOB No.: 240469
SCALE: 1/8" = 1'-0"
PROJ MGR: Author
DATE: 06/24/25

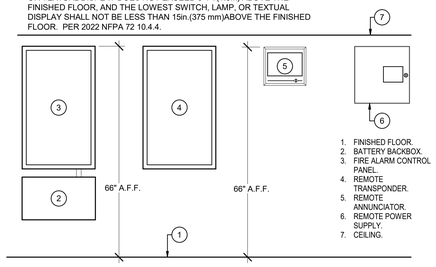
Sheet Title

**FIRE ALARM RISER DIAGRAM**

Sheet No.

**FA501**

NOTE:
UNLESS OTHERWISE PERMITTED BY THE AUTHORITY HAVING, CONTROL UNIT DISPLAYS, VISIBLE INDICATORS, OR CONTROLS SHALL BE MOUNTED SUCH THAT THE DISTANCE TO THE HIGHEST SWITCH, LAMP OR TEXTUAL DISPLAY DOES NOT EXCEED 6 FT(1.8m) ABOVE THE FINISHED FLOOR, AND THE LOWEST SWITCH, LAMP, OR TEXTUAL DISPLAY SHALL NOT BE LESS THAN 15in.(375 mm)ABOVE THE FINISHED FLOOR. PER 2022 NFPA 72 10.4.4.




1. FINISHED FLOOR.
2. BATTERY BACKBOX.
3. FIRE ALARM CONTROL PANEL.
4. REMOTE TRANSPONDER.
5. REMOTE ANNUNCIATOR.
6. REMOTE POWER SUPPLY.
7. CEILING.

## 6 BACKBOX MOUNTING ELEVATION DETAIL
NOT TO SCALE

NOTES:
A. WALL-MOUNTED VISUAL SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT TOP GREATER THAN 96" ABOVE THE FINISHED (A.F.F.) FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE-BASED ALTERNATIVE PER NFPA 72 2022 SECTION 18.5.5.1.

B. ALL WALL MOUNTED AUDIBLE DEVICES SHALL BE A MINIMUM OF 90" A.F.F. TO TOP OF DEVICE PER NFPA 72 2022 SECTION 18.4.8.1. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72 2022 SECTION 18.5.5.4.1.

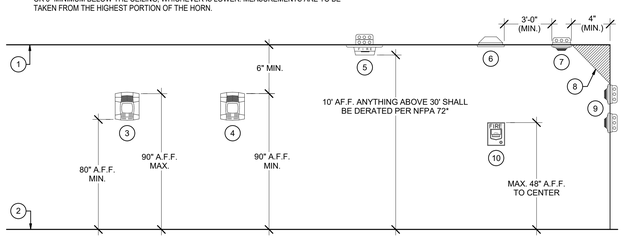
C. THE OPERABLE PART OF A MANUALLY ACTUATED ALARM-INITIATING DEVICE SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" FROM THE FINISHED FLOOR PER 2022 NFPA 72 17.15.6.

D. WEATHERPROOF HORN/STROBE SHALL BE WALL MOUNTED A MINIMUM OF 90" ABOVE FLOOR OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS ARE TO BE TAKEN FROM THE HIGHEST PORTION OF THE HORN.

E. PER NFPA 72 2022 EDITION, SECTION 17.7.4.2.1 SPOT-TYPE SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING OR, IF ON A SIDEWALL, BETWEEN THE CEILING AND 12" (300mm) DOWN FROM THE CEILING TO THE TOP OF THE DETECTOR.

F. PER NFPA 72 2022 EDITION, SECTION 17.6.3.1.3.1 SPOT-TYPE HEAT-SENSING FIRE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 4" (100 mm) FROM THE SIDEWALL OR ON THE SIDEWALLS BETWEEN THE 4" AND 12" (100 mm AND 300mm) FROM THE CEILING.

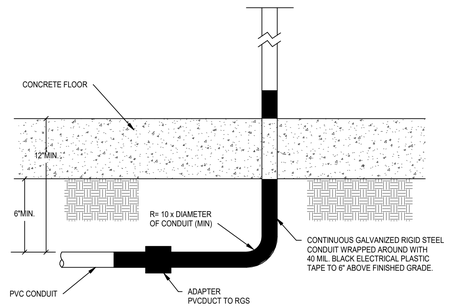
G. PER NFPA 72 2022 EDITION, SECTION 18.5.5.7.2 TWO GROUPS OF VISUAL NOTIFICATION APPLIANCES, WHERE VISUAL NOTIFICATION APPLIANCES OF EACH GROUP ARE SYNCHRONIZED, IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW THIS SHALL INCLUDE SYNCHRONIZATION OF STROBES OPERATED BY SEPARATE SYSTEMS.



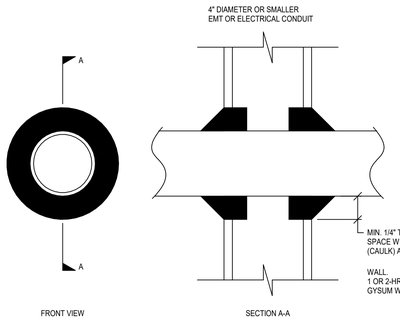

1. CEILING.
2. FINISHED FLOOR.
3. VISUAL OR AUDIBLE/VISUAL APPLIANCE.
4. AUDIBLE APPLIANCE.
5. CEILING VISUAL, AUDIBLE/VISUAL.
6. HVAC/VENT SUPPLY DIFFUSER.
7. CEILING DETECTOR.
8. NEVER HERE (DEAD SPACE).
9. WALL MOUNT DETECTOR.
10. MANUAL STATION.

* DE-RATED STROBES SHALL MEET THE REQUIREMENTS OF 2022 NFPA 72 SECTION 18.5.5.7.6. "PERFORMANCE - BASED ALTERNATIVE".

## 5 DEVICE MOUNTING ELEVATION DETAIL
NOT TO SCALE




## 4 CONDUIT RISER DETAIL
12" = 1'-0"




| Max Pipe or conduit Diam In. (mm) | F Rating Hr | T Rating Hr |
|---|---|---|
| 1 (25) | 1 or 2 | 0+, 1 or 2 |
| 1 (25) | 3 or 4 | 3 or 4 |
| 4 (102) | 1 or 2 | 0 |
| 6 (152) | 3 or 4 | 0 |
| 12 (305) | 1 or 2 | 0 |

DETAIL NOTES:

WALL CONSTRUCTION:
A. STEEL STUDS PER ARCHITECTURAL/STRUCTURAL.
B. 5/8" TYPE x GYPSUM BOARD PER ARCHITECTURAL.

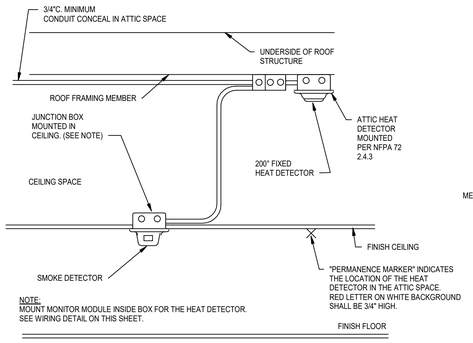
CONDUIT SIZE PER DRAWINGS.

FIRE STOP SYSTEM - ONE HOUR CAULK. APPLY TO INTERFACE WITH WALL SURFACE.

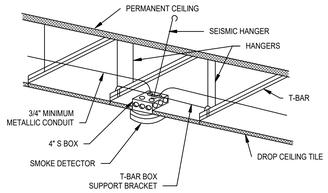
U.L. SYSTEM NO. W-L-1001

NOTE:
MAX. DIA. OF OPENING IS 13 1/2" ANNULAR SPACE OF MIN. 1/4" DIA. BEAD IS REQUIRED.

## 3 CONDUIT PENETRATION AT 1-HR FIRE RATED WALL DETAIL
12" = 1'-0"

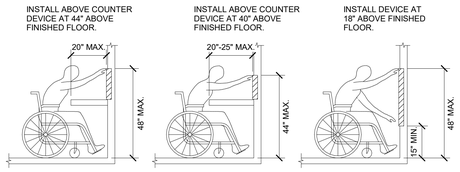



NOTE:
MOUNT MONITOR MODULE INSIDE BOX FOR THE HEAT DETECTOR. SEE WIRING DETAIL ON THIS SHEET.

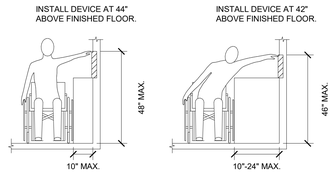



## 2 DROP CEILING DEVICE INSTALLATION DETAIL
12" = 1'-0"

### ADA STANDARDS FOR ACCESSIBLE DESIGN




ADA GUIDELINES -FRONT ACCESS




ADA GUIDELINES -SIDE ACCESS

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE J-BOXES AT ADA REQUIRED HEIGHTS TO ALLOW FOR THE DEVICE CONTROLS TO FALL WITHIN THE ACCESSIBLE REACH RANGE SHOWN ABOVE.
2. PROVIDE INSTALLATION PER SECTION 11B-308.1.1 ELECTRICAL SWITCHES.
3. WALL PHONES, CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING VENTILATING EQUIPMENT, SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.

## 1 ADA STANDARDS FOR ACCESSIBLE DESIGN
6" = 1'-0"

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Sheet Title

FIRE ALARM DETAILS

Sheet No.

FA601

## TECHNOLOGY PLAN GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF THE TELECOMMUNICATION, NETWORK, AND VIDEO EQUIPMENT SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. CONTRACTOR SHALL COORDINATE AND INSTALL ALL 120V POWER REQUIREMENTS AND LOCATIONS AS REQUIRED FOR ALL EQUIPMENT (TYPICAL)

2. CONTRACTOR SHALL COORDINATING WITH PBK TECHNOLOGY DEPARTMENT PRIOR TO THE INSTALLATION OF RACKS AND RACK EQUIPMENT. NO RACKS SHALL BE PERMANENTLY INSTALLED WITHOUT WRITTEN APPROVAL OF THE PROPOSED LOCATIONS.

3. THE PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUITS, BACK BOXES, AND OTHER RACEWAY REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR THE SCS SHALL BE THE RESPONSIBILITY OF THE SCS INSTALLER.

4. THE SELECTED, INSTALLING CONTRACTOR MUST BE A CERTIFIED INTEGRATOR/INSTALLER AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER TO INSTALL THE CABLE PLANT AND CONNECTIVITY PRODUCTS. REFER TO SPECIFICATIONS FOR PRODUCT TYPE AND DESCRIPTION.

5. SYSTEM WIRING AND EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH ENGINEERING BEST PRACTICES AS ESTABLISHED BY ANSI/EIA/TIA, BICSI, AND THE CEC.

6. ALL WIRING SHALL MEET ALL STATE AND LOCAL ELECTRICAL CODES.

7. ALL TELECOMMUNICATIONS SYSTEMS EQUIPMENT AND MOUNTING LOCATIONS SHALL BE IN COMPLIANCE WITH ADA ACCESSIBILITY STANDARDS.

8. ALL INDUSTRY STANDARD CATEGORY 6A CABLING PRACTICES MUST BE FOLLOWED FOR ALL DATA CABLING.

9. ALL DATA CABLES ARE TO BE INSTALLED WITH A MINIMUM OF 12 INCHES OF SEPARATION FROM AC POWER CABLES, INTERCOM, FIRE ALARM, SECURITY CABLES IN ANY PARALLEL OPEN WIRE RUN.

10. ALWAYS CROSS OTHER SYSTEM CABLES AT A 90 DEGREE ANGLE.

11. ALL CABLES AND TERMINATION COMPONENTS SHALL BE MACHINE LABELED AT BOTH ENDS. LABEL ALL CABLES PER TS DRAWINGS AND/OR SPECIFICATIONS. FINAL CABLE/OUTLET IDENTIFICATION LABELS SHALL BE COORDINATED WITH THE OWNER AND PBK.

12. CONTRACTOR TO PROVIDE LIGHTNING PROTECTION ON ALL COMMUNICATION CABLE BETWEEN BUILDINGS.

13. ALL EXPOSED CABLING ROUTED IN PLENUM SHALL BE PLENUM-RATED. ALL NON PLENUM-RATED CABLING INSTALLED IN PLENUM SPACES SHALL BE INSTALLED IN CONDUIT.

14. NO TERMINATION OR SPLICES SHALL BE INSTALLED IN OR ABOVE CEILINGS UNLESS NOTED NOTED OTHERWISE.

15. TECHNOLOGY CONTRACTOR SHALL PROVIDE AND INSTALL ALL SLEEVES REQUIRED TO INSTALL COMMUNICATION CABLING THROUGH ALL CMU AND RATED WALLS. ALL TECHNOLOGY SYSTEM CONDUIT SLEEVES SHALL HAVE PROTECTIVE BUSHING ON BOTH ENDS, BE DEDICATED FOR TECHNOLOGY SYSTEMS ONLY AND SHALL NOT SHARE WITH OTHER BUILDING TRADES.

16. CONTRACTOR SHALL MAINTAIN WALL RATING WITH PROPER FIRE BLOCKING METHODS.

17. CONTRACTOR SHALL ROUTE ALL FIBER/VOICE/DATA AND CATV CABLING DOWN CORRIDORS AND PERPENDICULAR OR PARALLEL TO BUILDING WALLS ENTER INTO ALL ROOMS ABOVE THE MAIN DOORWAY.

18. ALL COMMUNICATION CABLE INSTALLED SHALL ROUTE TO THE CENTER OF THE ROOM IN WHICH IT SERVES AND THEN TO THE OUTLET LOCATION IT IS INTENDED FOR. EACH CABLE SHALL HAVE A 10' SERVICE LOOP AT THE CENTER OF EACH ROOM AND A 3' SERVICE LOOP ABOVE EACH OUTLET LOCATION.

19. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEMS AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. PANDUIT J-MOD SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. IN LOCATION WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.

20. CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED CABLING AND COMPONENTS TO FURNISH TWO (2) ANALOG TELEPHONE CABLES TO THE FIRE ALARM SYSTEM. CONTRACTOR TO COORDINATE WITH THE SYSTEM INSTALLER FOR EXACT LOCATIONS AND TERMINATION INSTRUCTIONS PRIOR TO INSTALLATION.

21. ALL EXPOSED CABLING OR CABLING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE PROPERLY SIZED TO MAINTAIN THE 40% FILL RATIO.

22. ALL CONDUIT STUB OUTS AND SLEEVES SHALL HAVE PROTECTIVE BUSHINGS TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED. CONTRACTOR TO MAINTAIN A 40% MAXIMUM FILL RATION ON ALL SLEEVES INSTALLED.

## AUDIO & VIDEO GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE INSTALLING CONTRACTORS LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS (TYPICAL). PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATION AND CONNECTION OF CONTROL PANEL AND HEAD END POWER WITH THE PROJECTS ELECTRICAL CONTRACTOR.

2. THE PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS BACK BOXES, SLEEVES, AND OTHER RACEWAY REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.

3. THE SECURITY CAMERA SYSTEM INSTALLER SHALL BE RESPONSIBLE FOR CONNECTING ALL APPLICABLE SYSTEM EQUIPMENT TO THE OWNER'S NETWORK.

4. ALL EXPOSED SYSTEM'S WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ANY MOISTURE FROM ENTERING BUILDING.

6. NO CONDUITS SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. IF EXTERIOR CONDUITS ARE REQUIRED FOR A COMPLETE INSTALLATION, EACH SYSTEM CONTRACTOR SHALL COORDINATE WITH THE PROJECTS CONSULTANT PRIOR TO ANY ROUGH-IN.

7. EACH SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL CONDUIT STUB OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED.

8. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK, ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.

9. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM A PANDUIT J-MOD CABLE SUPPORT SYSTEMS AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. PANDUIT J-MOD SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.

10. SECURITY CAMERA SYSTEM INSTALLER SHALL PROVIDE A CEILING MOUNTED INSTALLATION KIT RECOMMENDED BY THE MANUFACTURER OF THE CAMERA. EACH CEILING MOUNTED CAMERA KIT SHALL HAVE A SUPPORT WIRE ATTACHED TO THE BUILDING'S STRUCTURE TO PREVENT THE CAMERA FROM DROPPING TO THE FLOOR AT ANY TIME. AT NO POINT SHALL THE WEIGHT OF THE CEILING MOUNTED SECURITY CAMERA BE SUPPORTED BY THE CEILING GRID SYSTEM OR CEILING TILES. ALL CEILING MOUNTED CAMERAS SHALL BE FLUSH MOUNTED.

11. ALL EXTERIOR AND WALL MOUNTED CAMERA LOCATIONS MUST BE COORDINATED WITH THE OWNER PRIOR TO ROUGH-IN. ALL CAMERAS TO BE MOUNTED AT 12'-0" AFG. COORDINATION MEETINGS SHALL BE SCHEDULED THROUGH THE ARCHITECTS PROJECT MANAGER.

12. ALL SECURITY CAMERAS SHOWN TO WATCH EXTERIOR DOORS SHALL BE MOUNTED AT 40' FROM DOOR AT ALL LOCATIONS POSSIBLE. NO CAMERA SHALL BE INSTALLED MORE THAN 40' FROM DOOR.

13. CONDUIT, BACK BOX AND CABLING REQUIREMENTS FOR IP SECURITY CAMERAS: EACH IP CAMERA SHALL BE EQUIPPED WITH (1) CAT6 CABLE BY CABLING CONTRACTOR. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING IN A PLENUM RATED JACK AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ELECTRICAL CONTRACTOR SHALL ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT.

14. VIDEO SURVEILLANCE CONTRACTOR SHALL PROVIDE ONE (1) ADDITIONAL OMNICAST LICENSE FOR EACH DOOR EQUIPPED WITH AN INTERIOR CARD READER AND SOUNDER TO ENABLE THE LOCAL CAMERA VIEW TO BE DISPLAYED ON THE LCD MONITOR IN THE RECEPTION AREA.

15. ALL NEW EXTERIOR CAMERAS COVERING DOORS EQUIPPED WITH SOUNDERS SHALL BE AXIS MODEL #F4005E. PROVIDE ALL REQUIRED AXIS HARDWARE FOR FULLY FUNCTIONAL SYSYTEMS AT ALL #F4005E CAMERA LOCATIONS, INTERIOR AND EXTERIOR.

16. PROVIDE LICENSES FOR ALL CAMERAS AS REQUIRED TO PROVIDE A TURNKEY SYSTEM. SALIENT SYSTEMS LICENSES FOR EXISTING ANALOG AND IP CAMERAS ARE TRANSFERABLE TO NEW IP CAMERAS. PROVIDE LICENSES ONLY FOR NEW CAMERAS THAT ARE NOT REPLACING EXISTING CAMERAS.

## INTERCOM SYSTEM'S GENERAL NOTES

1. ALL 120V POWER REQUIRED FOR THE FUNCTIONALITY OF EACH SYSTEM SHALL BE A DEDICATED CIRCUIT AND ON EMERGENCY POWER WHEN AVAILABLE. THE INSTALLING CONTRACTOR OF EACH SYSTEM SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN 120V POWER REQUIREMENTS FOR ALL REMOTE POWER SUPPLIES. THE INSTALLING CONTRACTORS LICENSED ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ELECTRICAL PANEL LOCATIONS AND AVAILABLE SPACE DEDICATED FOR THE CONTRACTOR'S SYSTEM REQUIREMENTS. (TYPICAL). PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER TO MAIN CONTROL PANELS AND ALL HEAD END EQUIPMENT. SYSTEM INSTALLERS SHALL COORDINATE LOCATION AND CONNECTION OF CONTROL PANEL AND HEAD END POWER WITH THE PROJECTS ELECTRICAL CONTRACTOR.

2. THE PROJECTS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL IN WALL CONDUITS, BELOW GRADE CONDUITS, BELOW SLAB CONDUITS, CONDUITS ACROSS OPEN AREAS BACK BOXES, SLEEVES, AND OTHER RACEWAY REQUIRED FOR DEVICES AND PATHWAYS SHOWN ON THE FLOOR PLANS AND DETAIL SHEETS. ANY ADDITIONAL CONDUITS, SLEEVES, AND RACEWAY REQUIREMENTS FOR EACH SYSTEM SHALL BE THE RESPONSIBILITY OF EACH SYSTEM INSTALLER.

3. ALL EXPOSED SYSTEM'S WIRING OR WIRING ROUTING ACROSS NON ACCESSIBLE CEILINGS SHALL BE ROUTED IN CONDUIT. SIZE CONDUIT AS REQUIRED TO ROUTE SYSTEMS WITH 40% CABLE FILL RATIO. MINIMUM CONDUIT SIZE SHALL BE 3/4".

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL EXTERIOR WALL PENETRATIONS ARE PROPERLY SEALED TO PREVENT ANY MOISTURE FROM ENTERING BUILDING.

5. NO CONDUITS SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING. IF EXTERIOR CONDUITS ARE REQUIRED FOR A COMPLETE INSTALLATION, EACH SYSTEM CONTRACTOR SHALL COORDINATE WITH THE PROJECTS CONSULTANT PRIOR TO ANY ROUGH-IN.

6. EACH SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL PROTECTIVE BUSHINGS ON ALL CONDUIT STUB OUTS AND SLEEVES TO PREVENT CABLE DAMAGE. BUSHING TO BE INSTALLED PRIOR TO CABLE INSTALLATION. CUTTING BUSHING AND INSTALLING AFTER CABLE IS INSTALLED WILL NOT BE EXCEPTED.

7. ALL CABLE SHALL BE ROUTED DOWN CORRIDORS, PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS AND STRUCTURE. CABLE TO EACH DEVICE SHALL BRANCH OFF OF A MAIN CORRIDOR TRUNK, ROUTING CABLES THROUGH CLASSROOMS, OFFICES, STORAGE ROOMS, RESTROOMS OR ANY TYPE OF ROOM OTHER THAN A CORRIDOR WILL NOT BE ACCEPTED. ENTER ALL ROOMS ABOVE THE ASSOCIATED ROOM DOORWAY.

8. THE SYSTEM INSTALLER SHALL PROPERLY SUPPORT ALL INSTALLED SYSTEM CABLING FROM AN APPROVED CABLE SUPPORT SYSTEM AS DETAILED IN SPECIFICATIONS. NO CABLING SHALL BE ROUTED AND TIED DIRECTLY TO BUILDING STEEL, CEILING GRID SUPPORT, CONDUIT, PIPING, OR DUCTWORK. THE CABLE SUPPORT SYSTEM SHALL BE DIRECTLY CONNECTED TO THE BUILDING'S STEEL JOIST. AT LOCATIONS WHERE THE BOTTOM OF THE JOIST IS MORE THAN 5' ABOVE THE CEILING, THE SYSTEM INSTALLER SHALL PROVIDE AND INSTALL THREADED ROD AND ALL REQUIRED MATERIALS TO CONNECT THE THREADED ROD TO THE BUILDING STEEL AND THE CABLE SUPPORT SYSTEM TO THE THREADED ROD. CABLE PATHWAY SHALL NOT BE HIGHER THAN 5' ABOVE THE CEILING AT ANY LOCATIONS.

9. ALL INTERCOM CABLING FOR CLASSROOMS, OFFICES, CONFERENCE ROOMS, WORK ROOMS, AND LOUNGES SHALL BE HOME RUNS TO HEAD END EQUIPMENT TO ALLOW ZONING TO BE ACCOMPLISHED.

10. ALL EXTERIOR AND WALL MOUNTED SPEAKERS SHALL BE MOUNTED AT 10'-0" UNLESS OTHERWISE NOTED.

11. EXTERIOR SPEAKERS SHALL NOT BE GROUPED WITH INTERIOR SPEAKERS.

12. ALL SPEAKERS SHALL BE CONNECTED TO A STANDARD PUNCH DOWN BLOCK LOCATED NEAR HEAD END EQUIPMENT AND THEN CONNECTED TO HEAD END EQUIPMENT.

13. ALL CEILING MOUNTED SPEAKERS SHALL BE INSTALLED UTILIZING A TILE BRIDGE SUPPORT SYSTEM. AT NO POINT SHOULD THE WEIGHT OF A CEILING MOUNTED SPEAKER BE SUPPORTED BY A CEILING TILE ONLY.

14. ALL WALL MOUNTED CALL INITIATING DEVICES SHALL BE INSTALLED AT +42" ABOVE THE FINISHED FLOOR.

## TECHNOLOGY SCOPE OF WORK

1. PROVIDE COMPLETE TECHNOLOGY SYSTEMS EQUIPMENT WITH INSTALLATION AS REQUIRED FOR A COMPLETE WORKING SYSTEM PER DESIGN DRAWINGS AND SPECIFICATIONS FOR COMMUNICATIONS ROOM.

2. PROVIDE NEW CONDUITS, J-HOOKS ABOVE ACCESSIBLE CEILING SPACES TO SUPPORT NEW TECHNOLOGY WIRING AS REQUIRED BETWEEN END DEVICES AND TECHNOLOGY HEADEND EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL WIRING WITH TERMINATION AND TESTING AS REQUIRED FOR A COMPLETE WORKING SYSTEM.

3. PROVIDE COMPLETE INFRASTRUCTURE INCLUDING WIRING TO ALL SECURITY DEVICES PER PLANS.

4. THE CONTRACTOR SHALL PROVIDE CONDUITS, UNDERGROUND PULL BOXES, AND WIRING AS REQUIRED FOR CONNECTIONS TO ALL SITE DEVICES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TECHNOLOGY EQUIPMENT/DEVICES MOUNTING AS NOTED PER THE DESIGN DRAWINGS.

6. THE CONTRACTOR SHALL PROVIDE NEW UNDERGROUND CONDUITS FOR NEW UTILITY SERVICE PROVIDER CONNECTION, AND COORDINATE WITH UTILITY SERVICE PROVIDER COMPANY FOR FINAL POINT OF CONNECTION PRIOR TO INSTALLATION.

7. PROVIDE VIDEO SURVEILLANCE SYSTEM AND SECURITY CAMERAS WITH REQUIRED LICENSING FOR A COMPLETE WORKING SYSTEM INCLUDING INTEGRATION WITH ACCESS CONTROL SYSTEM.

## TECHNOLOGY SYMBOL LIST

| SYMBOL: | DESCRIPTION: | NOTE: |
|---|---|---|
| AV | AUDIO VIDEO OUTLETS | 1. |
| #-TV | COMBINATION DATA/TV OUTLETS | 2.,5. |
| WAP | WIRELESS ACCESS POINT DEVICE/ENCLOSURE (CEILING) | 1.,2.,5. |
| # | INFORMATION OUTLET (WALL) | 1.,2.,5. |
| WAP | WIRELESS ACCESS POINT DEVICE/ENCLOSURE (WALL) | . |
| CR1 | CREDENTIAL READER - TYPE 1 | 4. |
| ##-## | VIDEO SURVEILLANCE CAMERA 270° FIELD OF VIEW (CEILING) | 6. |
| ##-## | VIDEO SURVEILLANCE CAMERA 270° FIELD OF VIEW (WALL) | 6. |
| ##-## | VIDEO SURVEILLANCE CAMERA SINGLE SENSOR (CEILING) | 6. |
| | | . |
| S1 | PUBLIC ADDRESS SPEAKER (POLE) | . |
| IDCP | INTRUSION DETECTION CONTROL PANEL (WALL) | |
| IDPS | INTRUSION DETECTION POWER SUPPLY (WALL) | |
| MD | INTRUSION DETECTION MOTION DETECTOR (WALL) | . |
| UPB1 | UNDERGROUND PULL BOX TYPE1 | 7. |
| | CONDUIT (CONCEALED IN OR ABOVE CEILING/HORIZONTAL SURFACE) | . |
| | UNDERGROUND/FLOOR CONDUIT | . |
| | CONDUIT UP | . |
| | CONDUIT DOWN | . |
| | CONDUIT WITH CONTINUATION | . |
| | CONDUIT SLEEVE | . |
| | FIRE RATED PATHWAY SLEEVE SYSTEM | . |

## GENERAL NOTES:

1. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL.
2. DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

## TECHNOLOGY SYMBOL LIST NOTES:

1. "#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION.
2. SYMBOL SUBSCRIPT INDICATES DEVICE TYPE.
3. INFORMATION OUTLET INSTALLED IN E.C. PROVIDED FLOOR BOX. "#" INDICATES DATA OUTLET FACEPLATE CONFIGURATION. REFER TO THE ELECTRICAL FLOOR PLANS FOR ADDITIONAL INFORMATION.
4. EQUIPMENT/DEVICE HEIGHT AS INDICATED ON PLANS.
5. REFER TO SPECIFICATION - EXTERIOR COMMUNICATION PATHWAYS AND DETAIL 6/T6.02 FOR UNDERGROUND COMMUNICATIONS PULL BOX.
6. REFER TO SPECIFICATION - EXTERIOR COMMUNICATION PATHWAYS FOR UNDERGROUND COMMUNICATIONS HANDHOLE.
7. PROVIDE AV OUTLET WITH (2) HDMI CONNECTORS AND CABLES. REFER TO FLOOR PLAN FOR DETAILS.

## DRAWING INDEX


| SHEET | DESCRIPTION |
|---|---|
| T0.00 | TECHNOLOGY COVER SHEET |
| T0.01 | TECHNOLOGY RISER DIAGRAM |
| T1.1 | TECHNOLOGY SITE PLAN |
| T1.2 | TECHNOLOGY ENLARGED SITE PLAN |
| T2.1 | TECHNOLOGY FLOOR PLAN |
| T5.0 | TECHNOLOGY ENLARGED PLAN |
| T6.1 | TECHNOLOGY DETAILS |
| T6.2 | TECHNOLOGY DETAILS |


## TECHNOLOGY ABBREVIATION KEY

| ABBR: | DESCRIPTION: |
|---|---|
| AFF | ABOVE FINISHED FLOOR |
| BFC | BELOW FINISHED CEILING |
| C | CONDUIT |
| C.M. | CONSTRUCTION MANAGER |
| E.C. | ELECTRICAL CONTRACTOR |
| G.C. | GENERAL CONTRACTOR |
| J-BOX | JUNCTION BOX |
| MPOE | MIMIMUM POINT OF ENTRY |
| MC | MAIN CROSS-CONNECT |
| S.C. | SECURITY CONTRACTOR |
| SIM | SIMILAR |
| T.C. | TECHNOLOGY CONTRACTOR |
| TR-# | TELECOMMUNICATIONS ROOM |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| +# | MOUNTING HEIGHT ABOVE FINISHED FLOOR |

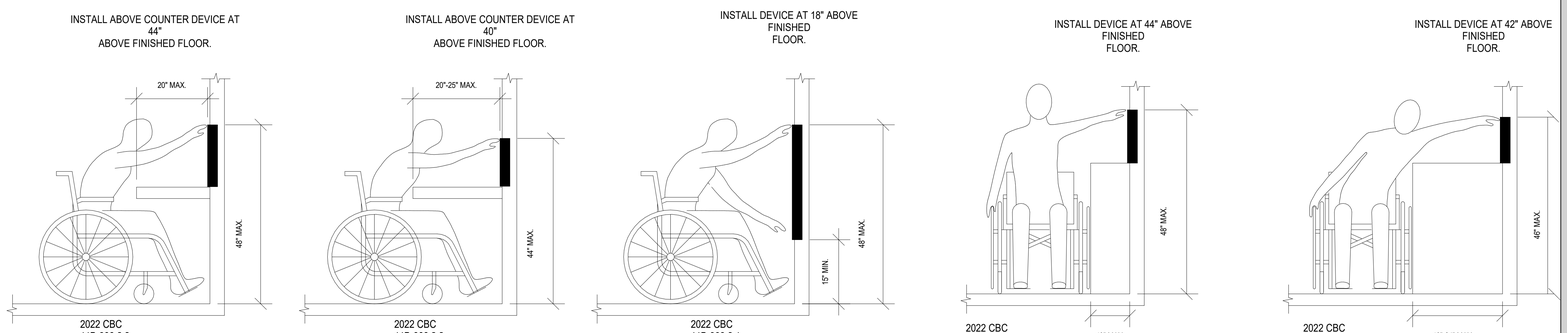
## APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2022
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED): 2022 EDITION
NFPA 720 STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT; 2016 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES; 2019 EDITION
UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES; 2003 EDITION
UL 521 STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS; 1999 EDITION
UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED; 2002 EDITION (R2010)
ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS; 2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.




CBC/ADA GUIDELINES -FRONT ACCESS

CBC/ADA GUIDELINES -SIDE ACCESS

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE J-BOXES AT ADA REQUIRED HEIGHTS TO ALLOW FOR THE DEVICE CONTROLS TO FALL WITHIN THE ACCESSIBLE REACH RANGE SHOWN ABOVE.
2. PROVIDE INSTALLATION PER SECTION 11B-308.1.1 ELECTRICAL SWITCHES.
3. WALL PHONES, CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING VENTILATING EQUIPMENT, SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

Stamps

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Project

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LONG BEACH, CA 90813

POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

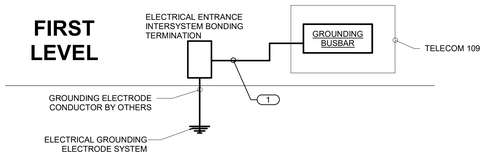
JOB No.: 240469
SCALE: 12" = 1'-0"
PROJ MGR: Author
DATE: 06/24/25

Sheet Title

TECHNOLOGY COVER SHEET

Sheet No.

T0.00




NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CONDUCTOR TYPE. ALL CONNECTIONS AND SYSTEM DEVICES SHOWN ARE TYPICAL AND NOT REPRESENTATIVE OF ACTUAL PROJECT QUANTITIES. REFER TO FLOOR PLANS AND ENLARGED FLOOR PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES AND MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER (GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR) UNLESS CONDUCTOR LENGTH IS LESS THAN 66 FEET. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING CRITERIA FOR CONDUCTORS LESS THAN 66 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS. SOLDER IS NOT AN ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED TO CONNECT COMMUNICATIONS BONDING CONDUCTORS TO EQUIPMENT. WHERE NECESSARY, REMOVE PAINT AND/OR USE PAINT-PIERCING WASHERS TO PROVIDE PROPER ELECTRICAL BOND AT ALL CONNECTIONS.
4. REFER TO [2/T6.1] FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

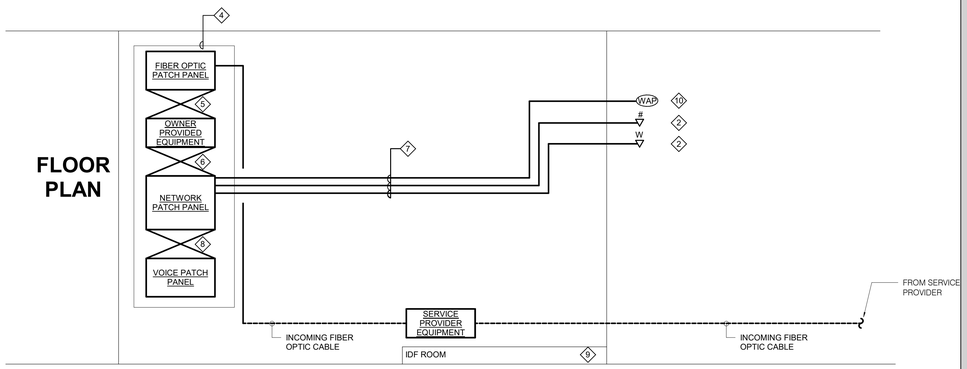
KEYNOTES:
1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT). BCT SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.

**BONDING CONDUCTOR SIZING SCHEDULE**

| CONDUCTOR LENGTH IN FEET | MINIMUM ACCEPTABLE SIZE - AWG |
|---|---|
| LESS THAN 13' | 6 |
| 14' - 20' | 4 |
| 21' - 26' | 3 |
| 27' - 33' | 2 |
| 34' - 41' | 1 |
| 42' - 52' | 1/0 |
| 53' - 66' | 2/0 |
| GREATER THAN 66' | 3/0 |

## TECHNOLOGY BONDING RISER DIAGRAM

12" = 1'-0" (1)




NOTES:
1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION(S), LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITY OF CABLES AND JACKS TO BE INSTALLED AT EACH INFORMATION OUTLET.
3. RUN CAT6 CABLES FROM THE TENANT OFFICES TO A IDF CABINET IN THE TELECOMMUNICATIONS ROOM AND SHALL BE TERMINATED ON A SEPARATE CABINET FROM FBO WIRING.

KEYNOTES:
1. CROSS-CONNECT BACKBONE RISER CABLE TO THE INCOMING SERVICE PROVIDER CABLE.
2. # INDICATES VOICE/DATA FACEPLATE CONFIGURATION. REFER TO TECHNOLOGY FLOOR PLANS FOR ADDITIONAL INFORMATION.
3. DATA OUTLET INSTALLED IN E.C. PROVIDED AND INSTALLED FLOOR BOX.
4. RACK OR CABINET AS DEFINED ON THE TELECOM ROOM LAYOUT.
5. REFER TO SPECIFICATIONS FOR FIBER PATCH CORD REQUIREMENTS.
6. RJ-45 TO RJ45 CATEGORY **6** UTP PATCH CORDS, REFER TO SPECIFICATIONS.
7. **28** GAUGE 4-PAIR, CATEGORY **6A**, UNSHIELDED TWISTED PAIR CABLE, REFER TO SPECIFICATIONS.
8. REFER TO SPECIFICATIONS FOR COPPER PATCH CORD REQUIREMENTS.
9. REFER TO FLOOR PLANS FOR TELECOMMUNICATIONS ROOM LOCATIONS.
10. PROVIDE 2-PORT PLENUM RATED SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING.

## FIBER RISER DIAGRAM

12" = 1'-0" (2)

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Sheet Info

JOB No.: 240469
SCALE: 12" = 1'-0"
PROJ MGR: Author
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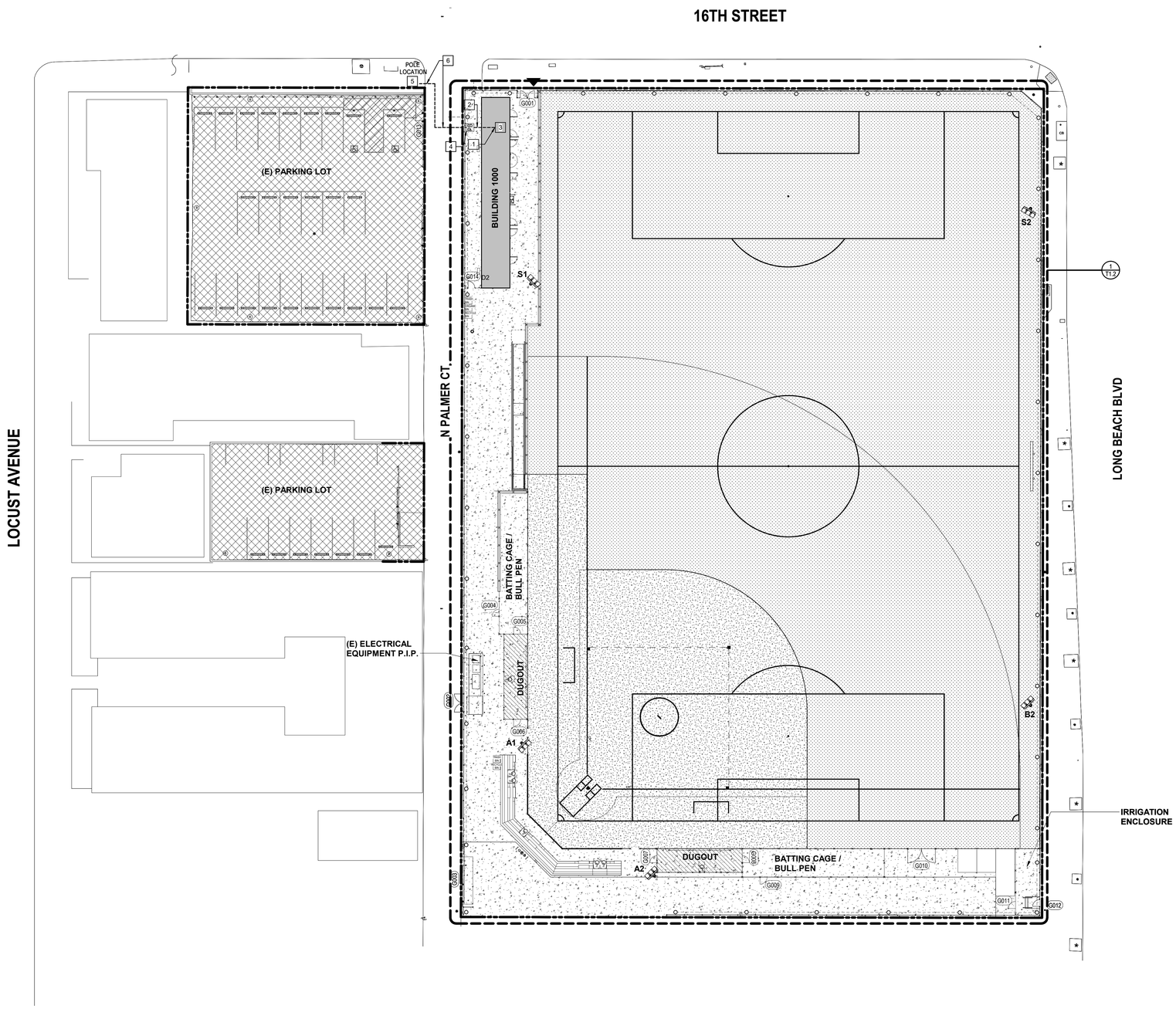
Sheet Title

**TECHNOLOGY RISER DIAGRAM**

Sheet No.

**T0.01**




1 TECHNOLOGY SITE PLAN
1" = 20'-0"

## GENERAL NOTES

A. REFER TO SHEET T0.00 FOR LEGEND, ABBREVIATION AND NOTES

## KEY NOTES

1. TECHNOLOGY CONDUITS/CABLING SHALL ROUTE FROM UNDERGROUND AND STUB UP AT MDF RROM. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY MATERIALS AND METHODS FOR CONDUIT STUB UP TO BE ROUTED THROUGH PLENUM SPACE AND DISTRIBUTED TO BUILDING'S MDF.
2. NEW FIBER PATHWAY UNDERGRROUND COMMUNICATIONS CONDUIT/CABLING. CONTRACTOR TO PROVIDE AND INSTALL QTY.2, 2" INCH CONDUITS WITH 2", 3-CELL MAXCELL INNERDUCT. CONTRACTOR SHALL PROVIDE AND INSTALL A 12-STRAND SINGLE MODE OS2.
3. APPROXIMATE LOCATION OF BUILDING'S NEW MDF LOCATION. CONDUITS SHALL STUB UP INTO MDF AND LABELED AS TECHNOLOGY/COMMUNICATIONS CONDUITS.
4. INDICATES LOCATION OF NEW PULL BOX. ALL NEW PULL BOXES SHALL BE CLEARLY MARKED WITH TELECOM OR MAINTAIN NAMING SCHEME OF SITE'S EXISTING COMMUNICATION PULLBOXES. PROVIDE 17"X30" PULL BOX AND QTY.1 (3") CONDUIT TO MPOE.
5. APPROXIMATE LOCATION OF BUILDING'S EXISTING POLE LOCATION . CONTRACTOR SHALL PROVIDE AND INSTALL FULLY TESTED FIBER OPTIC CABLE BACK BONE TERMINATED AT MDF PATCH PANEL WITH LC CONNECTORS. FIBER CABLE SHALL BE 12 STRAND OS2 SINGLE-MODE(SMF), ARMORED AND PLENUM RATED FOR MDF BACKBONE CONNECTIVITY.
6. EXISTING CATV CONDUIT.

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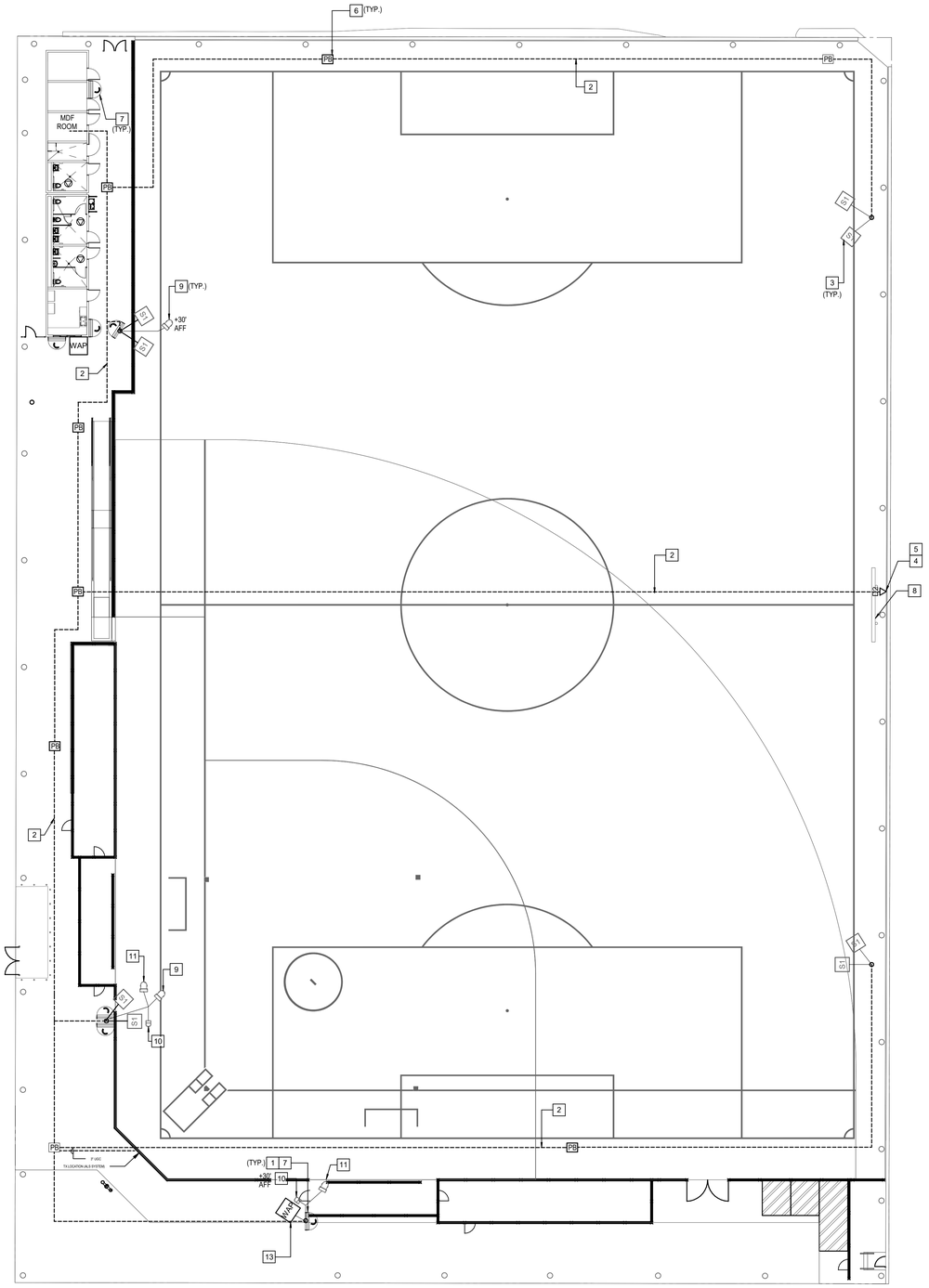
Sheet Title

TECHNOLOGY SITE PLAN

Sheet No.

T1.1




## ASSISTIVE LISTENING SYSTEM

A. BLEATCHERS AREA TO BE COVERED WITH ASSISTIVE LISTNING SYSTEM AS PER CBC CODES :

- (TOTAL NUMBER OF SEATS) CAPACITY OF THE ASSEMBLY AREA, SEAT CAPACITY X 4% = (NUMBER OF RECEIVERS).

B. TOTAL NUMBER RECEIVERS X 25% = NUMBER OF HEARING AIDE COMPATIBLE.

C. CONTRACTOR SHALL PROVIDE AND INSTALL APPLICABLE TRANSMITTER DEVICE(S) FOR INTEGRATION WITH TOTAL NUMBER OF RECEIVERS.

- 121 SEATS X 4% = 5 RECEIVERS.
- 5 X 25% = 2 HEARING AIDE & (2 NECKLOOPS).

PROVIDE FM ASSISTIVE LISTENING SYSTEM WITH REMOTE-MOUNTED VERTICAL ANTENNA LOCATED BEHIND BLEACHERS AT CENTERLINE, MOUNTED MINIMUM 10 FT ABOVE GRADE, PROVIDING FULL COVERAGE OF ALL SEATING AREAS.

PROVIDE **LISTEN TECHNOLOGIES RF ASSISTIVE LISTENING SYSTEM**. SYSTEM SHALL UTILIZE REMOTE ANTENNA (LA-122) MOUNTED BEHIND BLEACHERS AT CENTERLINE.MINIMUM 12-15 FT ABOVE FINISHED GRADE AND ABOVE TOP SEATING ELEVATION.COVERAGE SHALL INCLUDE ALL SEATING AREAS INCLUDING ADA SEATING.SYSTEM SHALL OPERATE ON 216 MHZ BAND.PROVIDE MINIMUM (6) RECEIVERS INCLUDING (2) HEARING AID COMPATIBLE UNITS.

NOTE: SEE PROJECT SPECIFICATIONS SECTION.27 51 26 FOR THE PERMANENT ASSISTIVE LISTENING SYSTEM (ALS) REQUIREMENTS AND THE ALS COMPONENTS TO FURNISH.

**SYSTEM DIAGRAM** :

[AUDIO SOURCE]
(LINE LEVEL AUDIO CABLE)
[AUDIO MIXER / DSP OUTPUT]
BALANCED AUDIO (XLR / 1/4")
[LISTEN RF TRANSMITTER – NEMA BLEACHER MOUNTED]
RF COAX CABLE (LT-800-216)
[LIGHTNING / SURGE PROTECTOR] (RECOMMENDED OUTDOOR INSTALL)
[REMOTE ANTENNA – LA-122]
MOUNTED ON MAST BEHIND BLEACHERS
RF BROADCAST
[AUDIENCE RECEIVERS]
(LR-4200 / LR-5200 ETC.) .

NOTE :

**CONTRATOR TO PROVIDE A SMALL NEMA ENCLOSURE BEHIND BLEACHERS WITH TRANSMITTER INSIDE. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO THE TRANSMITTER NEMA LOCATION.**

**CONTRACTOR TO PULL BALANCED ANALOG LINE SHIELDED TWISTED PAIR BALANCED AUDIO CABLE (BELDEN 9451). 22/18 AWG TO WHERE TRANSMITTER LOCATED AT BLEACHERS SIDE.**

**MIXER/DSP XLR OUT → SHIELDED PAIR → XLR IN ON TRANSMITTER**

* REFER TO G SHEETS, (20/G005 SPECIFICALLY). FOR MORE DETIALS.

## GENERAL NOTES

**A. REFER TO SHEET T0.00 FOR LEGEND, ABBREVIATION AND NOTES.**

B. THE ANNOUNCEMENT PA SYSTEM BY BIAMP:

* AMPLIFIER ASSIGNMENTS ARE AS FOLLOWS:
Amplifier 1: Voltera D4800.4 — Channel 1 – R.2-52z; Channel 2 – R.25-COAX; Channel 3 – R.5-96MAX; Channel 4 – Spare
Amplifier 1: Voltera D4800.4 — Channel 1 – R.2-52z; Channel 2 – R.25-COAX; Channel 3 – R.5-96MAX; Channel 4 – Spare

MICROPHONES AND OTHER AUDIO INPUTS CAN BE ROUTED TO THE INPUTS AVAILABLE ON THE TESIRA.

C. CONTRACTOR TO PROVIDE RADIO DESIGN LABS (RDL) (2 QTY.) **HYPERLINK D-XLR3F** MIC PLATE AND AN AKG (2 QTY.) **HYPERLINK DST99 S** MICROPHONE, CHECK WITH OWNER FLOOR OUTLETS LOCATION PRIOR TO INSTALL. AT PEDESTAL LOCATION ON THE 50 LINE OF THE FIELD.

D. CONTRACTOR TO PROVIDE PATHWAY, BACK BOXES, ENCLOSURES, MEDIA CONVERTERS, CABLING ON BOTH ENDS, ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER RECEPTICAL TO THE CABINET ON EACH LIGHT POLE. ALL CAMERAS WILL BE **OFOI** ITEMS ANYOTHER ITEMS TO BE OFCI.

## KEY NOTES

1. PROVIDE SURVEILLANCE CABINET/MEDIA CONVERTER CABINET, MEDIA CONVERTER CABINET A TO BE MOUNTED AT BASE OF POLE MOUNTED ON A LIGHT POLE. PROVIDE (6) STRAND SINGLE-MODE FIBER OPTIC CABLE OUTDOOR (OS2) RATED FROM MDF ROOM TO MEDIA CONVERTER CABINET FOR NETWORK CONNECTION TO SECURITY CAMERA.THE CONTRACTOR SHALL PROVIDE PATCH CORDS, AND TERMINATE CABLING AS REQUIRED FOR A COMPLETE WORKING SYSTEM. CONTRACTOR TO PROVIDE BOSCH MEDIA CONVERTER , PLUS 10GB SFP MODULE SUPPORTS S.M.F. CONTRACTOR TO PROVIDE GIGA SWITCH FROM THE MDF SIDE BY CISCO NETWORK SWITCH.CONTRACTOR TO FOLLOW THE MANUFACTURER PART NUMBERS AS SHOWN BELOW :
   1. OUTDOOR CAMERA FLEXIDOME MULTI 7000I IR. (**NDM-7703-AL**).
   2. **NDA-7051-PIPW**.
   3. **NDA-U-WMT.**
   4. **NDA-U-PMAL FOR POLE MOUNT**.
   5. **NBA-7070-PA1** ENCLOSURE CABINET. FOR 120VAC.
   6. **VG4-SFPSCKT MEDIA CONVERTER**.
   7. **SFP-3 (2LC). FOR SINGLE MODE FIBER**.

2. PROVIDE (2) 3" C. FROM UNDERGROUND PULL BOX TO SECURITY SURVEILLANCE CABINET MOUNTED ON LIGHT POLE. ONE WILL BE FOR FIBER AND THE OTHER WILL BE USED FOR THE SPEAKER CABLES, REFER TO DETAIL SHEET 6/T6.1 FOR TRENCHING DETAILS.

3. POLE MOUNTED HORN LIGHT POLE MOUNTED OUTDOOR PAGING SPEAKER WHITE COLOR, 12" 2-WAY MULTIPURPOSE HORN SPEAKER SYSTEM,SPEAKERS MANUFACTURED BY THREESIXTY. +10'A.F.F MANUFACTURED BY THREESIXTY PART# **TCPA10-DC(PL-90215A-801-06-L).OFCI (OWNER FURNISHED CONTRACTOR INSTALLED)**, WITH ALL REQUIRED ACCESSORIES TO BE MOUNTED ON LIGHT POLE PART# DUAL UNIT MOUNTING ADAPTER (**PL-72378B-801**). CONTRACTOR RECOMMENDED TO USE AWG 10 CABLES TO SUPPORT LONG DISTANCE.

4. PROVIDE A NEW WALL-MOUNTED DATA OUTLET WEATHER RESISTANCE OUTDOOR TYPE. PROVIDE AND INSTALL DATA OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE-GANG PLASTER RING. INSTALL A (1) 1" EMT CONDUIT FROM BACKBOX UP TO MEDIA CONVERTER WITH (2) CAT6A CABLES (U.O.N.). PROVIDE 4-PORT FACEPLATES AND RJ45 JACKS. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS (PANDUIT OR APPROVED EQUAL). THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL TERMINATION FOR A COMPLETE WORKING SYSTEM.

5. PROVIDE CABINET/MEDIA CONVERTER CABINET MOUNTED ON SCORE BOARD/UNDERGROUND. PROVIDE 6 STRAND SINGLE-MODE FIBER OPTIC CABLE OUTDOOR RATED FROM MDF ROOM TO MEDIA CONVERTER CABINET FOR NETWORK CONNECTION TO DATA OUTLET.THE CONTRACTOR SHALL PROVIDE PATCH CORDS, AND TERMINATE CABLING AS REQUIRED FOR A COMPLETE WORKING SYSTEM.

6. INDICATES LOCATION OF NEW PULL BOX. ALL NEW PULL BOXES 24"x24"x24" SHALL BE CLEARLY MARKED WITH TELECOM OR MAINTAIN NAMING SCHEME OF SITE'S EXISTING COMMUNICATION PULLBOXES.

7. PROVIDE OUTDOOR SECURITY CAMERA 7MP "**OFOI**" MANUFACTURED BY BOSCH PART# **NDM-7703-AL** MOUNTED ON LIGHT POLE AT 15' AFF/AS SHOWN. INDICATES THE LOCATION OF A WEATHER PROOF (IP66) RATED, EXTERIOR SECURITY CAMERA ( 180 DEG ). CONTRACTOR TO PROVIDE REQUIRED BACKBOXES AND PATHWAY.

8. CONTRACTOR TO PROVIDE OUTDOOR LED FOOTBALL SCOREBOARD DISPLAYS BY **NEVCO PART#MODEL 3685** (24' X 8' X 8" (7.31 X 2.44 X. 20 METERS)).CONTRACTOR TO PROVIDE LOCKABLE BOXSIDE AND FRONT TO THE SCOARBOARD. PROVIDE CONTROL **CONSOLE MPCX2 WIRELESS**. CONSOLE PLANNED TO BE LOCATED ON THE WEST SIDE, CONTRACTOR TO VERIFY LOCATION WITH DISTRICT BEFORE INSTALLATION. ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED CIRCUIT MODELS WITH 240 VAC, ELECTRICAL CONTRACTOR PROVIDE A NEMA RATED BOX THAT WOULD SUPPORT THE POWER REQUIREMENTS OF THE SCOREBOARD.

9. PROVIDE FULL-RANGE, 3-WAY, DUAL 12-INCH, HIGH OUTPUT FOR (GAME ANNOUNCMENT SYSTEM ). HORN-LOADED, WEATHER-RESISTANT, 50" X 20", GREY LOUDSPEAKER. BY BIAMP **PART# COMMUNITY R2-52Z**. HEAD END EQUIPMENT TO BE LOCATED INSIDE THE MDF RACK. CONTRACTOR TO PROVIDE POLE MOUNT **PART#COMMUNITY PMB-2RR+PMB-BAND POLE MOUNT BADING.**

10. PROVIDE 2-WAY HORN LOADED WEATHER-RESISTANT APPLICATION SOLUTIONS FULL-RANGE 200W (70V/100V) LOUDSPEAKER FOR (GAME ANNOUNCMENT SYSTEM). BY BIAMP **PART#R.35COAX COVERING THE BLEACHERS.** CONTRACTOR TO PROVIDE POLE MOUNT **PART#COMMUNITY PMB-1RR+PMB-BAND POLE MOUNT BADING. OFCI (OWNER FURNISHED CONTRACTOR INSTALLED).**

11. PROVIDE FULL-RANGE, 3-WAY, DUAL 12-INCH, HIGH OUTPUT FOR (GAME ANNOUNCMENT SYSTEM ). HIGH OUTPUT FULL-RANGE 90"X 60" WEATHER-RESISTANT LOUDSPEAKER, GREY LOUDSPEAKER. BY BIAMP **PART# COMMUNITY R.5-96 MAX COVERING SIDELINES**. CONTRACTOR TO PROVIDE POLE MOUNT **PART#COMMUNITY PMB-2RR+PMB-BAND POLE MOUNT BADING. OFCI (OWNER FURNISHED CONTRACTOR INSTALLED).**

12. WIRELESS ACCESS POINT, POLE/WALL MOUNT, OWNER FURNISHED AND CONTRACTOR INSTALLED "OFCI". CONTRACTOR TO PROVIDE DATA OUTLET FOR WIRELESS ACCESS POINT, (2) CAT6A CABLE, 2-PORT PLENUM RATED SURFACE MOUNT BOX, CONTRACTOR TO FOLLOW THE MANUFACTURER PART NUMBERS AS SHOWN BELOW :

13. 1- OUTDOOR WIRELESS ACCESS POINT PART# **.AP432 BY JUNIPER** NETWORKS.
   2- UNIVERSAL MOUNTING BRACKET (**APBR-U**) FOR JUNIPER ACCESS POINTS.
   3- **NBA-7070-PA1** ENCLOSURE CABINET. FOR 120VAC.
   4- **VG4-SFPSCKT MEDIA CONVERTER**.
   5- **SFP-3 (2LC). FOR SINGLE MODE FIBER.**
   6- AP POLYCARBONATE ENCLOSURE 12 x 10 x 4in (HxWxD) PART# **AH12104C**.

N

1 TECHNOLOGY ENLARGED SITE PLAN
1/16" = 1'-0"

G F E D C B A

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PROJ MGR: Author
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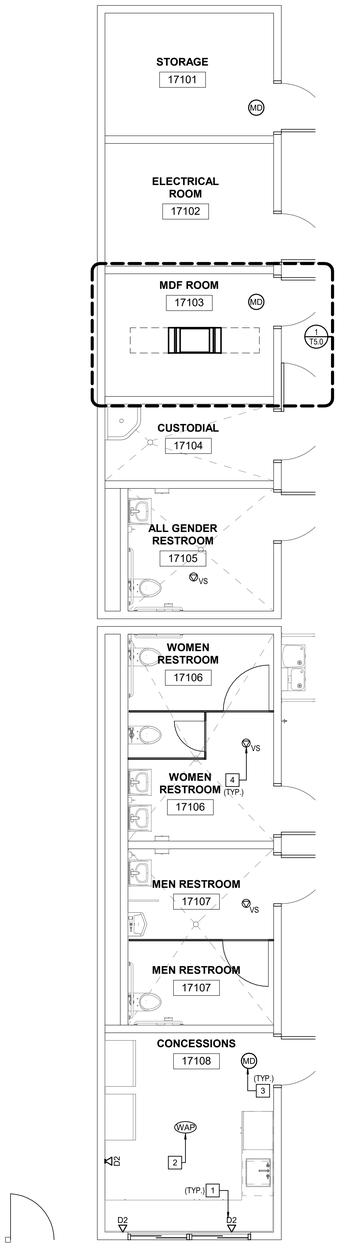
Sheet Title

**TECHNOLOGY ENLARGED SITE PLAN**

Sheet No.

**T1.2**




1 TECHNOLOGY FLOOR PLAN
1/4" = 1'-0"

## GENERAL NOTES

A. REFER TO SHEET T0.00 FOR LEGEND, ABBREVIATION AND NOTES

## KEY NOTES

1. PROVIDE A NEW WALL-MOUNTED DATA OUTLET. PROVIDE AND INSTALL DATA OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE-GANG PLASTER RING. INSTALL A (2) 1" EMT CONDUIT FROM BACKBOX UP TO ACCESSIBLE CEILING SPACE WITH (4) CAT6 CABLES (U.O.N.). THEN RUN CAT6 CABLES IN ACCESSIBLE CEILING SPACE USING J-HOOKS TO IDF CABINET SERVING THIS AREA. PROVIDE 4-PORT FACEPLATES AND RJ45 JACKS. (PANDUIT OR APPROVED EQUAL). THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL TERMINATION FOR A COMPLETE WORKING SYSTEM.

2. WIRELESS ACCESS POINT, CEILING MOUNT. OWNER FURNISHED AND CONTRACTOR INSTALLED "OFCI". CONTRACTOR TO PROVIDE DATA OUTLET FOR WIRELESS ACCESS POINT. (1) CAT6A CABLE. 2-PORT PLENUM RATED SURFACE MOUNT BOX ABOVE ACCESSIBLE CEILING AS INDICATED ON DRAWINGS. USE J-HOOKS TO SUPPORT NEW CABLING ABOVE ACCESSIBLE CEILING SPACE. FOR INACCESSIBLE CEILINGS SPACES NEW CONDUITS SHALL BE PROVIDED ABOVE CEILING TO THE IDF CABINET SERVING THIS AREA. PROVIDE 20' SLACK CABLE COILS ABOVE CEILING AT OUTLET LOCATION FOR FUTURE RELOCATION.

3. PROVIDE CEILING MOTION DETECTOR "360 DEGREE". CABLES TO BE ROUTED AND CONNECTED TO THE PANEL LOCATED NEXT THE IDF CABINET. THE CONTRACTOR SHALL PROVIDE ALL CONNECTIONS AND PROGRAMMING FOR A COMPLETE WORKING SYSTEM, BY BOSCH.

4. INDICATES THE LOCATION OF A ROUGH IN CEILING MOUNTED VAPE SENSOR OUTLET. CONTRACTOR SHALL MOUNT THIS OUTLET AT +12" ABOVE THE CEILING AND COORDINATE ALL FINAL LOCATIONS WITH OTHER TRADES ON THE PROJECT TO VERIFY THAT THE LOCATION OF THE OUTLET MAINTAINS 12" OF CLEARANCE FROM THE FRONT OF THE FACEPLATE FOR OWNER ACCESS. ROUTE (1) 1" CONDUIT FROM THE BUILDING STRUCTURE TO A SINGLE GANG BACK BOX MOUNTED AT 5' OR LESS ABOVE THE FINISHED CEILING. SECURE CONDUIT AND BACK BOX TO INSURE MINIMAL SWAY MOVEMENT. **BY HALO SYSTEM**.

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Sheet Title

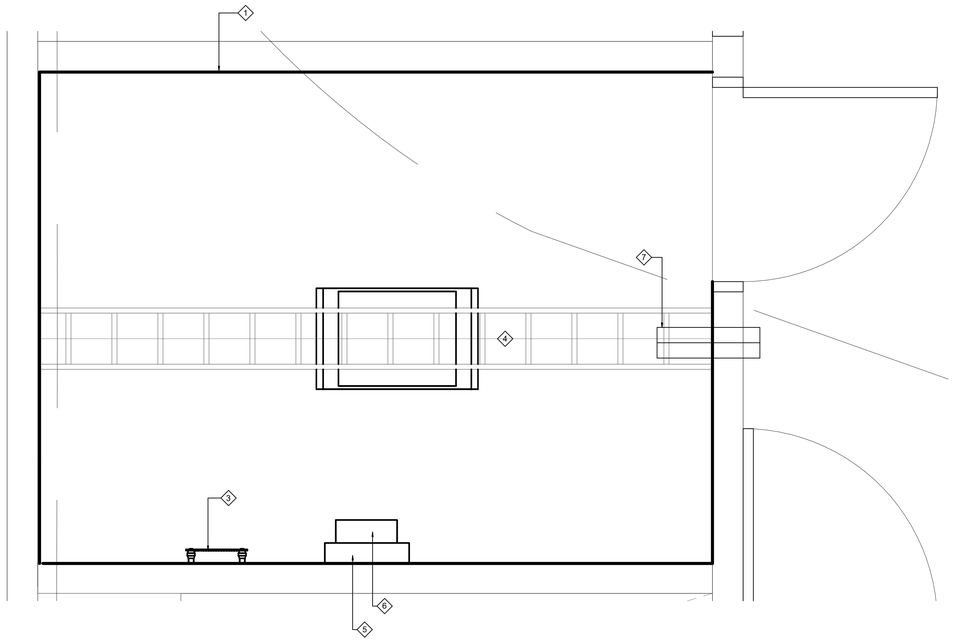
**TECHNOLOGY FLOOR PLAN**

Sheet No.

**T2.1**

# KEYNOTES

1. PRVOIDE TERMINAL BACKBOARD, AC-GRADE PLYWOOD, 8FT. HIGH WITH MINIMUM THICKNESS OF 3/4" AROUND THE PERIMETER OF
THE ROOM. PLYWOOD SHALL BE FIRE-RATED WITH STAMP VISIBLE. THE BOTTOM OF THE PLYWOOD SHALL BE MOUNTED 6" AFF (ABOVE FINISH FLOOR).
2. PROVIDE FLOOR STANDING 4-POST RACK ( 45RU) FOR NETWORK CABLING TRIPLITE PRODUCTS . OR EQUAL APPROVED AS PER DISTRICT STANDARD.
3. PROVIDE GROUNDING BUSBAR, WALL MOUNT. 4" H X 12" L X 1/4" D COPPER. ELECTRICALLY ISOLATED BY INSULATORS INTEGRAL TO MOUNTING BRACKETS. COPPER GROUND BAR IS 1/4" THICK AND STAND OFF 2.75" FROM WALL. THE 12" BUSBAR PROVIDES CONNECTION FOR EIGHTEEN (18) 2-HOLE COMPRESSION LUGS RESPECTIVELY WITH 5/8" OR 1" CENTERS. ANSI/TIA-607 AND BICSI COMPLIANT. UL LISTED.
4. LADDER RACK, (12"W x 1.5"H x 9.71'L) TUBULAR STEEL CONSTRUCTION. RUST RESISTANT ENAMEL FINISH. REMOVE SHARP BURRS FROM LADDER RACK AND REPAINT ALL AREAS THAT HAVE BEEN FIELD MODIFIED, CUT, OR EXPOSED. UL LISTED. PROVIDE WITH ALL NECESSARY MOUNTING BRACKETS, RACK ELEVATION KITS, AND (2) CABLE RADIUS DROPS PER RACK. MIDDLE ATLANTIC PRODUCTS "CL SERIES" OR APPROVED EQUAL.
5. INTRUSION DETECTION CONTROL PANELS MOUNTED ON WALL. ELECTRICAL CONTRACTOR TO PROVIDE 120V. POWER TO PANEL. PROVIDE (1) TELEPHONE LINE AND (1) NETWORK CABLE TO PANEL. COORDINATE WITH DISTRICT TECHNOLOGY DEPARTMENT ON ACTIVATING VOICE LINE AND ACQUIRING AN IP ADDRESS, PROVIDE AND INSTALL INTRUSION DETECTION PANEL (IDP). COORDINATE WITH OWNER FOR PANEL TYPE. TYPICAL MOUNTING HEIGHT SHALL BE 5FT A.F.F.
6. PROVIDE INTRUSION DETECTION POWER SUPPLY.
7. PROVIDE FIRE RATED TECHNOLOGY EZ-PATHWAY. SEAL ALL HOLES OR VOIDS MADE BY PENETRATIONS TO ENSURE AN EFFECTIVE SMOKE BARRIER. INSTALL FIRE STOPPING MATERIALS AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. STI PRODUCTS "EZ PATH SERIES 44 KIT" OR APPROVED EQUAL. PROVIDE EXTENSIONS MODLE AS REQUIRED FOR A COMPLETE WORKING SYSTEM.




**1** IDF ROOM#B3 - ROOM EQUIPMENT
1" = 1'-0"

Agency Approval

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Client

long beach unified school district

**Long Beach Unified School District**
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Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585

Stamps

REGISTERED PROFESSIONAL ENGINEER
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Project

1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|
| | | |

Sheet Info

JOB No.: 240469
SCALE: 1" = 1'-0"
PROJ MGR: Author
DATE: 06/24/25

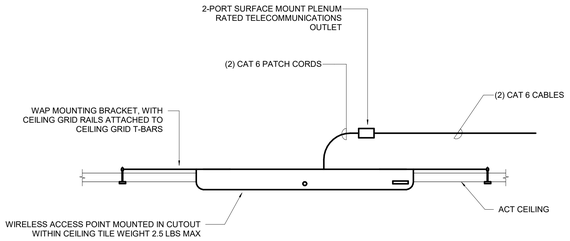
Sheet Title

**TECHNOLOGY ENLARGED PLAN**

Sheet No.

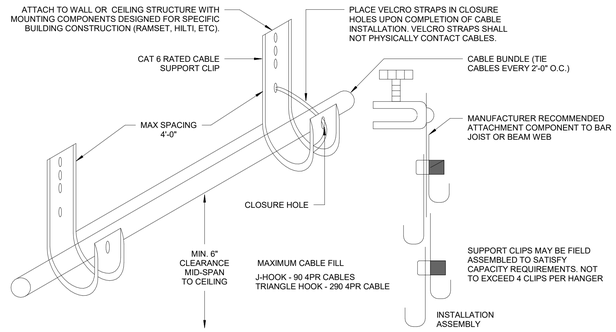
**T5.0**

G F E D C B A




WAP ACT INSTALLATION DETAIL

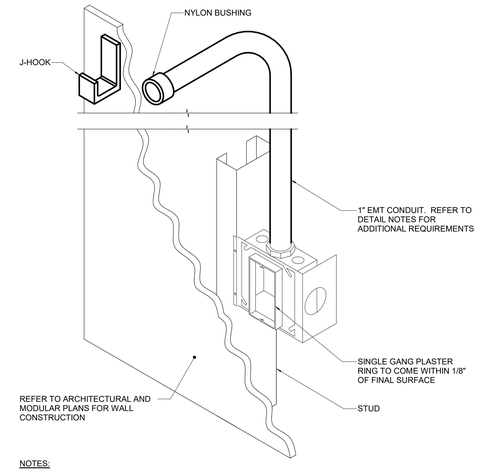
## 5 CEILING WIRELESS ACCESS POINT MOUNTING
NOT TO SCALE




NOTES:

1. SUPPORT CLIPS MUST SPECIFICALLY BE DESIGNED AND RATED FOR USE IN CATEGORY 6 CABLE INSTALLATION.
2. INSTALL APPROPRIATE SIZE AND QUANTITY SUPPORT CLIPS FOR CABLES TO BE SUPPORTED + 30% EXPANSION.
3. USE MANUFACTURERS RECOMMENDED MOUNTING HARDWARE, APPROPRIATE FOR ATTACHING TO WALL OR CEILING STRUCTURES.
4. CEILING TILE TEE GRID, DROP WIRES AND HVAC EQUIPMENT SHALL NOT BE USED AS MOUNTING POINTS.
5. SECURE CABLE IN SUPPORT CLIPS AS PER MANUFACTURERS RECOMMENDATION FOR CAT-6 CABLE. DO NOT EXCEED INDICATED FILL RATIOS.
6. CABLE SUPPORT CLIPS SHALL BE SPACED A MAXIMUM OF 4' APART.
7. INSTALL TRIANGULAR METAL BRACKETS (NOT SHOWN) FOR HIGH STATION CABLE CAPACITY REQUIREMENTS.
8. THIS DETAIL IS FOR REFERENCE ONLY AND DOES NOT REPRESENT ALL CONDITIONS OF J-HOOK INSTALLATION REQUIREMENTS (APPLY THIS DETAIL WHERE OCCURS). REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.

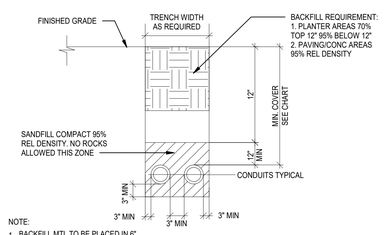
## 3 TECHNOLOGY J-HOOK PATHWAY DETAIL
NOT TO SCALE




NOTES:

1. 1" EMT CONDUIT SHALL STUB UP TO NEAREST ACCESSIBLE CEILING AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED J-HOOK ROUTE IN THE ROOM.
3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

## 1 TECHNOLOGY ROUGH-IN MOUNTING DETAIL
NOT TO SCALE

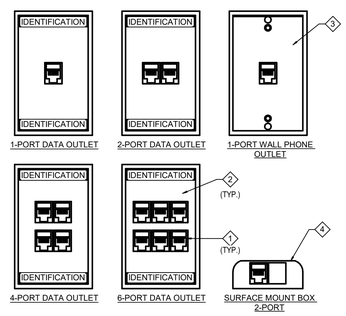



NOTE:

1. BACKFILL MTL TO BE PLACED IN 6" LAYERS OF PROPERLY MOISTENED MTL
2. SURFACING TO BE TRIMMED EXTRA WIDTH AFTER TRENCH IS BACKFILLED
3. POWER & LOW VOLTAGE/SIGNAL CONDUITS SHALL BE SEPARATED BY MIN. 12"
4. WHEN TRENCHING NEAR FOOTING, STRUCTURE SHEETS FOR MORE INFORMATION

| | |
|---|---|
| POWER | 24" MIN COVER UNO |
| TEL/DATA/TV/FA/SIGNAL | 24" MIN COVER UNO |

## 6 TRENCH DETAIL
NOT TO SCALE




NOTES:

1. REFER TO SPECIFICATION - HORIZONTAL CABLING REQUIREMENTS FOR CATEGORY CABLE PERFORMANCE REQUIREMENTS.
2. REFER TO SPECIFICATION - IDENTIFICATION FOR DATA OUTLET PORT IDENTIFICATION.
3. DATA OUTLET SHALL BE INSTALL IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. REFER TO DETAIL 1/T6.1 TECHNOLOGY ROUGH-IN MOUNTING DETAILS FOR CONDUIT SIZE.
4. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS.
5. USE T568B WIRING SCHEME TO TERMINATE THE TWISTED-PAIR CABLE ONTO THE CONNECTOR INTERFACE.
6. WHERE APPLIES PER PLANS, PROVIDE AV OUTLET WITH HDMI CONNECTION PER BELOW.
   - PANDUIT COVER PLATE: CBEIWY OR APPROVED EQUAL
   - PANDUIT JACK:(HDMI 2.0) CMHDMIIW OR APPROVED EQUAL
   - PANDUIT MODULAR INSERT: CHF2IW-X OR APPROVED EQUAL

KEYNOTE NOTES:

1. PROVIDE CAT6A RJ-45 JACKS, 8-POSITION, 8-CONTACT (8P8C); COLOR BLUE FOR DATA, WHITE FOR VOICE.
   - PANDUIT PRODUCTS "CJ688TGBU", COMMSCOPE "MGS400-318" OR APPROVED EQUAL.

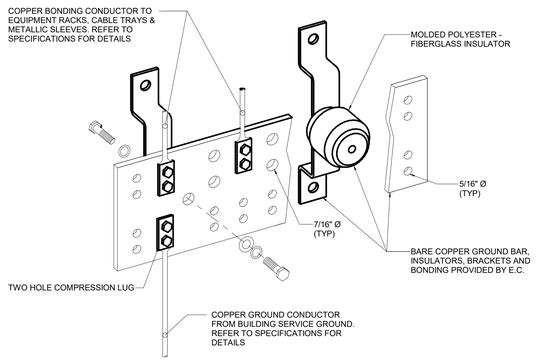
2. PROVIDE 1,2,4,6-PORT FACEPLATE AS INDICATED ON DRAWINGS.
   - 2-PORT: 42080-2WP.
   - 4-PORT: 42080-4WS.
   - 6-PORT: 42080-6WP.

3. PROVIDE STAINLESS STEEL 1-PORT FACEPLATE FOR OUTLETS INDICATED WITH "W" ON DRAWINGS. "W" INDICATES WALL PHONE MOUNTED AT +48" AFF FOR WALL HUNG PHONE.
   - 2-PORT: WALL PHONE "W" 42080-2WP.

4. PROVIDE SURFACE MOUNT BOX, PLENUM RATED, MOUNTED ABOVE CEILING FOR CONNECTIONS TO WIRELESS ACCESS POINTS.
   - 2-PORT: 6110G-RL6 (color blue).

5. PROVIDE 1' patch cords for each CAT6. Leviton P/N: 6D460-01L.
6. PROVIDE 1' patch cords for each CAT6A. Leviton P/N: H6A10-1Y.
7.PROVIDE 15' station cords for each CAT6. Leviton P/N: 6D460-15L.
8.PROVIDE 10' station cords for each CAT6A. Leviton P/N: H6A10-10Y

## 4 DATA OUTLETS CONFIGURATION DETAIL
NOT TO SCALE




NOTES:

1. REFER TO 1/T0.01 FOR TELECOMMUNICATIONS ROOM BONDING DETAIL.

## 2 BONDING BUS BAR DETAIL
NOT TO SCALE

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**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

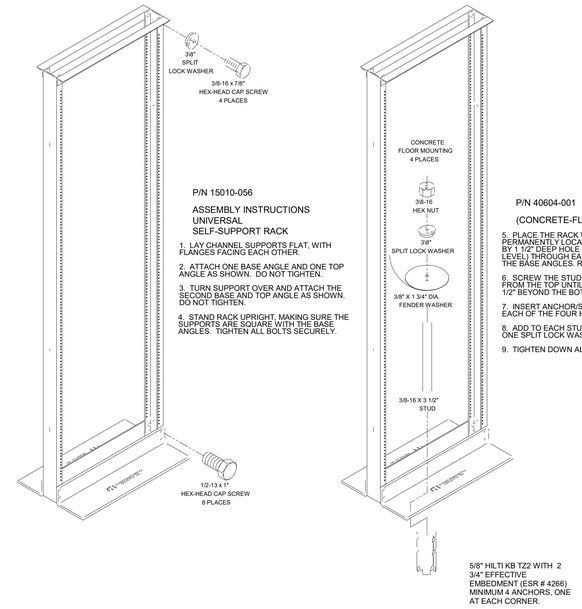
JOB No.: 240469
SCALE: 12" = 1'-0"
PROJ MGR: Author
DATE: 06/24/25

Sheet Title

**TECHNOLOGY DETAILS**

Sheet No.

**T6.1**




P/N 15010-056

ASSEMBLY INSTRUCTIONS
UNIVERSAL
SELF-SUPPORT RACK

1. LAY CHANNEL SUPPORTS FLAT, WITH FLANGES FACING EACH OTHER.

2. ATTACH ONE BASE ANGLE AND ONE TOP ANGLE AS SHOWN. DO NOT TIGHTEN.

3. TURN SUPPORT OVER AND ATTACH THE SECOND BASE AND TOP ANGLE AS SHOWN. DO NOT TIGHTEN.

4. STAND RACK UPRIGHT, MAKING SURE THE SUPPORTS ARE SQUARE WITH THE BASE ANGLES. TIGHTEN ALL BOLTS SECURELY.

P/N 40604-001

(CONCRETE-FLOOR INSTL.)

5. PLACE THE RACK WHERE IT WILL BE PERMANENTLY LOCATED AND DRILL A 5/8" DIA. BY 1 1/2" DEEP HOLE (AT MINIMUM FROM FLOOR LEVEL) THROUGH EACH OF THE FOUR HOLES IN THE BASE ANGLES. REMOVE DEBRIS FROM HOLE.

6. SCREW THE STUDS INTO THE ANCHORS FROM THE TOP UNTIL THEY PROTRUDE APPROX. 1/2" BEYOND THE BOTTOM EDGE.

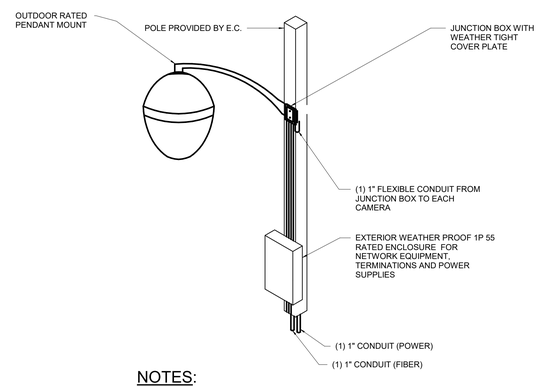
7. INSERT ANCHOR/STUD COMBINATION INTO EACH OF THE FOUR HOLES.

8. ADD TO EACH STUD: ONE FENDER WASHER, ONE SPLIT LOCK WASHER AND ONE HEX NUT.

9. TIGHTEN DOWN ALL NUTS SECURELY.

THE MAX OPERTIONAL WEIGHT 800 LBS

**1** FLOOR RACK MOUNTING DETAILS
1/2" = 1'-0"




NOTES:

1. THIS RISER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS SHOWN. THIS RISER IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. ALL INFORMATION OUTLETS ARE TYPICAL OF THE OUTLETS IN THE AREA SHOWN. REFER TO PLANS FOR MORE SPEOIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

**2** EXTERIOR POLE MOUNTING
3/4" = 1'-0"

G F E D C B A

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**Facilities Management**

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Sheet Info

JOB No.: 240469
SCALE: As indicated
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Sheet Title

**TECHNOLOGY DETAILS**

Sheet No.

**T6.2**

# LONG BEACH USD
# LONG BEACH POLY SOFTBALL
# LONG BEACH, CALIFORNIA


| SHEET TITLE | PAGE # |
|---|---|
| COVER PAGE | B1 OF B5 |
| SECTION VIEW | B2 OF B5 |
| PLAN VIEWS | B3 OF B5 |
| ANGLE FAB/GUARDRAIL DETAILS | B4 OF B5 |
| ALUMINUM PLANK DETAILS | B5 OF B5 |


NOTE: 5 ROW NON-ELEVATED BLEACHERS ARE EXEMPT FROM DSA STRUCTURAL & FLS REVIEW PER DSA IR A-22 SECTION 1.2.1 AND APPENDIX-CONSTRUCTION PROJECTS AND ITEMS ELIGIBLE FOR EXEMPTION

REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN S 6087 STRUCTURAL STATE OF CALIFORNIA
Signed 01/23/26
PRINCIPAL

***REVISION #2 - 1/23/26***
***REVISION #1 - 11/21/25***

OWNER/REPRESENTATIVE/ARCHITECTURAL REVIEW

PLEASE REVIEW THE DRAWINGS FOR COMPLIANCE WITH YOUR ORDER. PLEASE INDICATE ANY CHANGES OR COMMENTS ON THE DRAWINGS.

- [ ] APPROVED
- [ ] APPROVED AS NOTED
- [ ] REVISE AND RE-SUBMIT

SIGNATURE
TITLE
DATE

AWS CWF CERTIFIED WELDING FABRICATOR®
AISC CERTIFIED FABRICATOR

Southern® BLEACHER COMPANY
GRANDSTANDS ▪ BLEACHERS ▪ STADIUMS


PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365


Established 1946

***GENERAL INFORMATION***

| | RISE | TREAD | ROWS | LENGTH | SEAT COUNT |
|---|---|---|---|---|---|
| SOFTBALL | 11" | 26" | 3 | MITERED | 121 |

DATE: 11/5/25
JOB # 25326
LONG BEACH USD
LONG BEACH POLY SOFTBALL
LONG BEACH, CALIFORNIA

SHEET B1 OF B5

REF:

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Sheet Title

COVER PAGE

Sheet No.

B1

ITEM DESCRIPTION

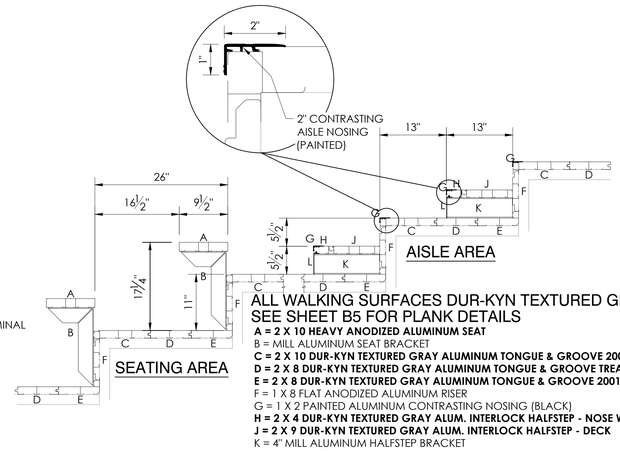
1. L 1 1/2 X 1 1/2 X 3/16 GALV. A36/A572 GRADE 50
2. L 2 X 1 1/2 X 3/16 GALV. A36/A572 GRADE 50
3. L 2 X 2 X 3/16 GALV. A36/A572 GRADE 50
4. L 2 1/2 X 2 X 3/16 GALV. A36/A572 GRADE 50
5. L 3 X 3 X 1/4 GALV. A36/A572 GRADE 50
6. ANODIZED ALUMINUM RAIL (SEE NOTE) (7/B5)
7. 9 GAUGE GALV. STEEL CHAINLINK FENCE
8. L 2 X 1 1/2 X 3/16 ALUMINUM (6061-T6 ALLOY)
9. L 2 X 2 X 3/16 ALUMINUM (6061-T6 ALLOY)
10. 1 5/8 SCH. 40 ANODIZED ALUMINUM PIPE (6061-T6 ALLOY) (13/B5)
11. 3/8Ø STAINLESS STEEL CONCRETE WEDGE ANCHOR (17/B5)

DESIGN LOADING

TREAD & SEAT AREA (GROSS AREA) 100psf.
SEAT (PERPENDICULAR SWAY) 10 lbs/lf.
SEAT (PARALLEL SWAY) 24lbs/lf.
HANDRAILS (PERPENDICULAR) 50 lbs/lf.
HANDRAILS (VERTICAL) 100 lbs/lf.
SEAT & TREAD 120 lbs/lf.

NOTES

1. STRUCTURAL SHAPES MEET ONE OF THE FOLLOWING ASTM SPECIFICATIONS: A572 GRADE 50, A529-50, OR A500 GRADE B.
2. WELDS ARE ALL AROUND WITH TYPE ER70S-6 WIRE MIG.
3. ALL STEEL TO BE HOT DIPPED GALVANIZED TO A.S.T.M. A-123-89 ce1.
4. STRUCTURAL BOLTS ARE HOT DIPPED GALV. AND ARE EQUAL TO OR GREATER THAN A-307.
5. ANODIZED ALUMINUM RAIL IS 1 1/4" NOMINAL PIPE SIZE. (7/B5)
6. ANODIZED ALUMINUM SCH. 40 PIPE IS 1 1/4" NOMINAL PIPE SIZE. (13/B5)

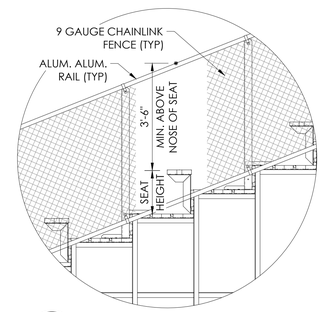



ALL WALKING SURFACES DUR-KYN TEXTURED GRAY
SEE SHEET B5 FOR PLANK DETAILS

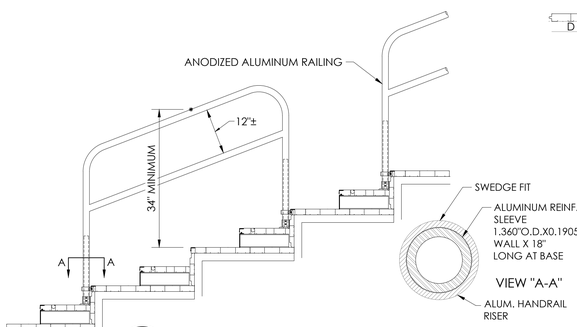
**A = 2 X 10 HEAVY ANODIZED ALUMINUM SEAT**
B = MILL ALUMINUM SEAT BRACKET
**C = 2 X 10 DUR-KYN TEXTURED GRAY ALUMINUM TONGUE & GROOVE 2001 TREAD - NOSE**
**D = 2 X 8 DUR-KYN TEXTURED GRAY ALUMINUM TONGUE & GROOVE TREAD (#69432)**
**E = 2 X 8 DUR-KYN TEXTURED GRAY ALUMINUM TONGUE & GROOVE 2001 TREAD - HEEL**
F = 1 X 8 FLAT ANODIZED ALUMINUM RISER
G = 1 X 2 PAINTED ALUMINUM CONTRASTING NOSING (BLACK)
**H = 2 X 4 DUR-KYN TEXTURED GRAY ALUM. INTERLOCK HALFSTEP - NOSE W/RISER**
**J = 2 X 9 DUR-KYN TEXTURED GRAY ALUM. INTERLOCK HALFSTEP - DECK**
K = 4" MILL ALUMINUM HALFSTEP BRACKET
L = 4" ANODIZED ALUMINUM INTERLOCK STEP RISER

1 / B2 PLANK ARRANGEMENT
NOT TO SCALE 11" X 26"

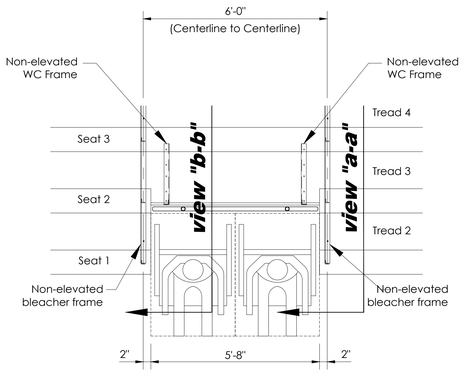
NOTE: 5 ROW NON-ELEVATED BLEACHERS ARE EXEMPT FROM DSA STRUCTURAL & FLS REVIEW PER DSA IR A-22 SECTION 1.2.1 AND APPENDIX-CONSTRUCTION PROJECTS AND ITEMS ELIGIBLE FOR EXEMPTION



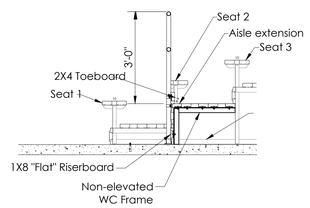

2 / B2 TYPICAL SIDE RAILING
SCALE:1/2"=1'-0"



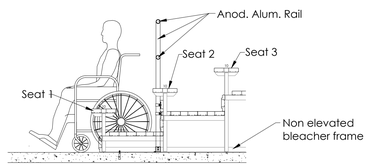

3 / B2 MID-AISLE INSTALLATION DETAIL
NOT TO SCALE




NOTE: DOUBLE WHEELCHAIR AREA SHOWN, SINGLE WHEELCHAIR AREA SIMILAR.

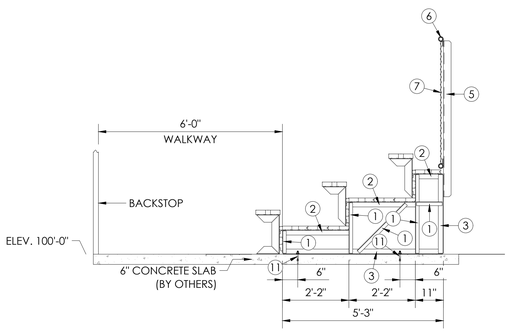



**view "b-b"**




**view "a-a"**

6 / B2 DOUBLE NON-ELEVATED WHEELCHAIR AREA DETAIL
SCALE:NONE




SECTION VIEW: 3 ROW NON-ELEVATED
SCALE:1/2"=1'-0"

DETAIL NUMBER / SHEET NUMBER

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Southern® BLEACHER COMPANY
GRANDSTANDS •BLEACHERS •STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN S 6087 STRUCTURAL STATE OF CALIFORNIA
Signed 01/23/26
PRINCIPAL

| REV. | BY | DATE | DESCRIPTION |
|---|---|---|---|
| 1 | MG | 1/26 | DSA NOTE ADDED TO ALL SHEETS |
| 2 | MG | 1/27/26 | REFERENCE TO PLANK DETAILS |

TYPE: SECTION VIEW
11" RISE X 26" TREAD / MITERED (3 ROWS)
PRJ:
LONG BEACH USD
LONG BEACH POLY SOFTBALL
LONG BEACH, CALIFORNIA

11/5/25 | MG | DMC
JOB NUMBER #25326
SHEET B2 OF B5

22" X 34" (11 x 17 = 1/2 indicated scale)

25326

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: 9216-654
PTN No.: 64725-585
Facilities Management

Stamps

Architect

PBK
ARCHITECT
8163 ROCHESTER AVE.
SUITE 100
RANCHO CUCAMONGA, CA
91730
Tel: 909-987-0909
www.pbk.com

Consultant

Project

PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813

POLYTECHNIC HIGH SCHOOL IMPROVEMENTS

100% CONSTRUCTION DOCUMENTS

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

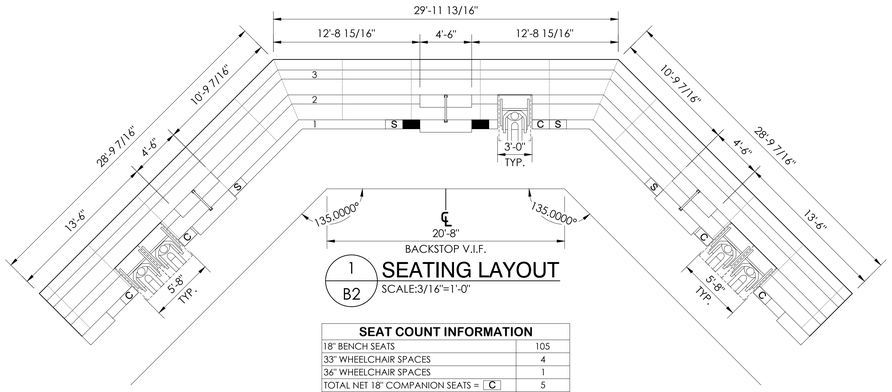
JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 11/21/25

Sheet Title

SECTION VIEW

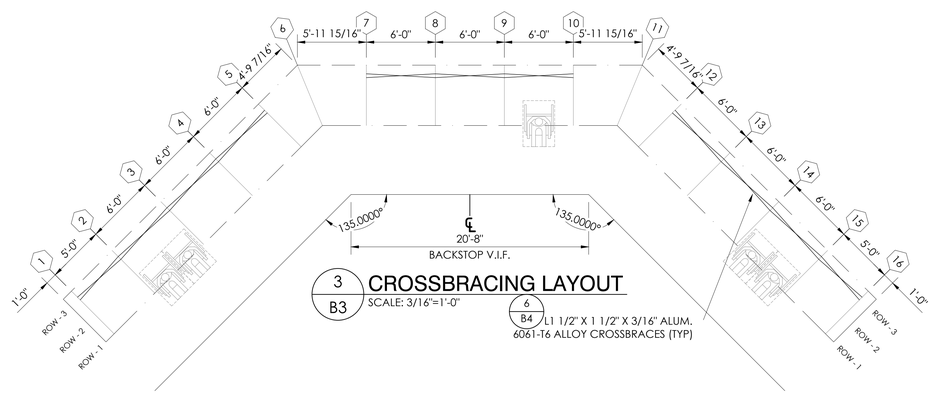
Sheet No.

B2




1 / B2 SEATING LAYOUT
SCALE:3/16"=1'-0"

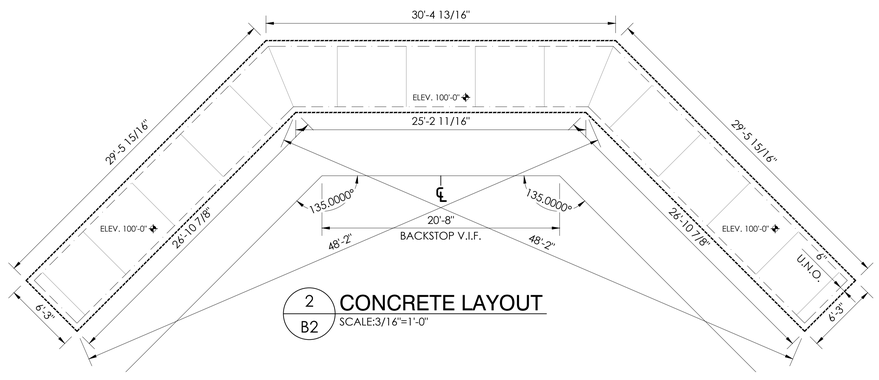
| SEAT COUNT INFORMATION | |
|---|---|
| 18" BENCH SEATS | 105 |
| 33" WHEELCHAIR SPACES | 4 |
| 36" WHEELCHAIR SPACES | 1 |
| TOTAL NET 18" COMPANION SEATS = C | 5 |
| TOTAL NET 18" SEMI-AMBULANT SEATS = S | 4 |
| TOTAL NET 18" AISLE SEATS = | 2 |
| TOTAL SEAT COUNT | **121** |




3 / B3 CROSSBRACING LAYOUT
SCALE: 3/16"=1'-0"

6 / B4 L1 1/2" X 1 1/2" X 3/16" ALUM. 6061-T6 ALLOY CROSSBRACES (TYP)

NOTE: 5 ROW NON-ELEVATED BLEACHERS ARE EXEMPT FROM DSA STRUCTURAL &FLS REVIEW PER DSA IR A-22 SECTION 1.2.1 AND APPENDIX-CONSTRUCTION PROJECTS AND ITEMS ELIGIBLE FOR EXEMPTION

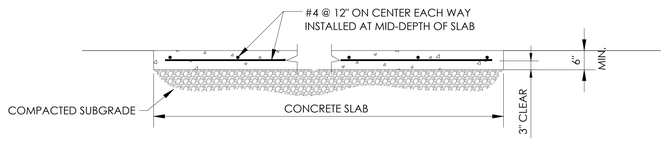



2 / B2 CONCRETE LAYOUT
SCALE:3/16"=1'-0"

ANGLE FRAME UNITS MUST BE ANCHORED TO RESIST WIND LOADS, AS PRESCRIBED BY BUILDING CODE.

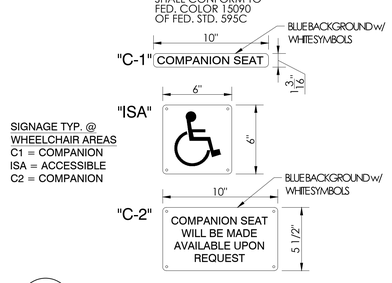
NOTE:
1. CONCRETE SLAB DIMENSIONS LISTED ARE MINIMUM REQUIREMENTS FOR ANGLE FRAME BLEACHER INSTALLATION
2. CONCRETE SLAB ON GRADE TO BE LEVEL. BLEACHERS ARE DESIGNED FOR INSTALLATION ON UNIFORM, LEVEL SURFACE

NOTE: 1. CONCRETE SLAB DESIGN/DETAIL LISTED IS THE MINIMUM REQUIREMENTS FOR ANGLE FRAME BLEACHER INSTALLATION. ALL CONCRETE WORK IS BY OTHERS & NOT BY BLEACHER MANUFACTURER.
2. BLEACHERS ARE DESIGNED FOR INSTALLATION ON UNIFORM, LEVEL SURFACE.
3. CONCRETE SLAB DIMENSIONS LISTED ARE FOR BLEACHER SUBSTRUCTURE ONLY.



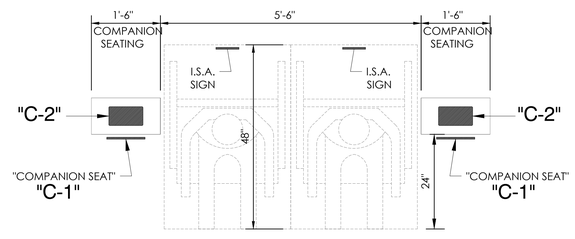

6 / B3 CONCRETE SLAB DETAIL
SCALE:NONE

NOTE: BLUE COLOR SHALL CONFORM TO FED. COLOR 15090 OF FED. STD. 595C




SIGNAGE TYP. @ WHEELCHAIR AREAS
C1 = COMPANION
ISA = ACCESSIBLE
C2 = COMPANION

4 / B3 SIGNAGE & SEAT TYPE LEGEND
NOT TO SCALE




ICC/ANSI A117.1 CHAPTER 8
FRONT OR REAR ACCESS 48" MIN.
SIDE ACCESS 60" MIN.

5 / B3 WHEELCAIR AREA SIGNAGE DETAIL
NOT TO SCALE

DETAIL NUMBER / SHEET NUMBER

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Southern BLEACHER COMPANY
GRANDSTANDS • BLEACHERS • STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN S 6087 STRUCTURAL STATE OF CALIFORNIA
Signed 01/23/26 PRINCIPAL

TYPE: PLAN VIEWS
11" RISE X 26" TREAD / MITERED (3 ROWS)
PHASE:
LONG BEACH USD
LONG BEACH POLY SOFTBALL
LONG BEACH, CALIFORNIA

| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|
| | MG | 12/26 | DSA NOTE ADDED TO ALL SHEETS |
| | MG | 11/21/25 | REFERENCE TO PLANK DETAILS |

DATE 11/5/25 | DRAWN MG | CHECKED DMC
JOB NUMBER #25326
SHEET B3 OF B5
22" X 34" (1:1 x 1/2" indicated scale)

25326

Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client

long beach unified school district
**Long Beach Unified School District**
2425 Webster Avenue
Long Beach, CA 90810

LBUSD No.: **9216-654**
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Stamps

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Consultant

Project

PROJECT ADDRESS
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LONG BEACH, CA 90813

**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**

**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info

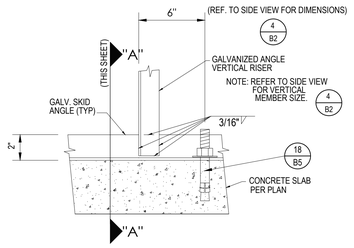
JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 11/21/25

Sheet Title

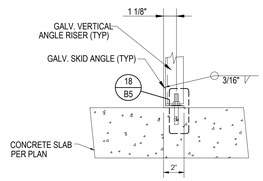
**PLAN VIEWS**

Sheet No.

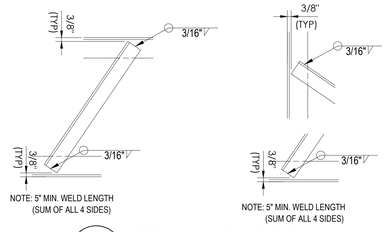
**B3**




1 B4 VERTICAL ANGLE ATTACH. TO SKID ANGLE
NO SCALE

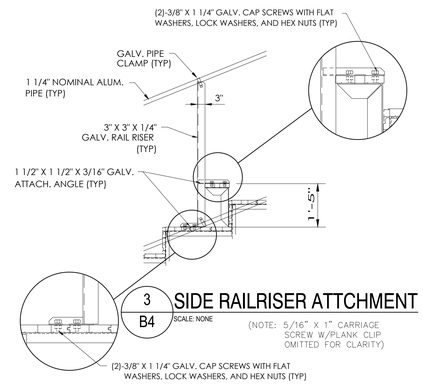



SECTION "A"-"A"
NO SCALE



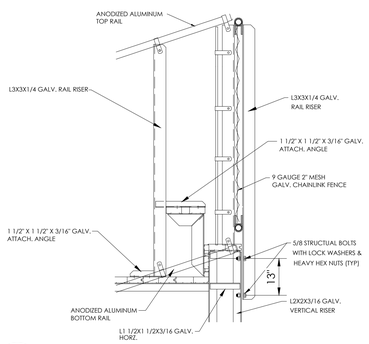

2 B4 ATTACHMENT DETAIL
NO SCALE

NOTE: 5 ROW NON-ELEVATED BLEACHERS ARE EXEMPT FROM DSA STRUCTURAL & FLS REVIEW PER DSA IR A-22 SECTION 1.2.1 AND APPENDIX-CONSTRUCTION PROJECTS AND ITEMS ELIGIBLE FOR EXEMPTION




3 B4 SIDE RAILRISER ATTCHMENT
SCALE: NONE

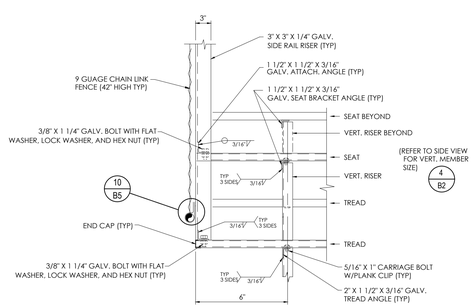
(NOTE: 5/16" X 1" CARRIAGE SCREW W/PLANK CLIP OMITTED FOR CLARITY)




4 B4 BACK RAIL RISER ATTACH. DETAIL
NO SCALE




A WELD DETAIL
NO SCALE




SECTION "B"-"B"
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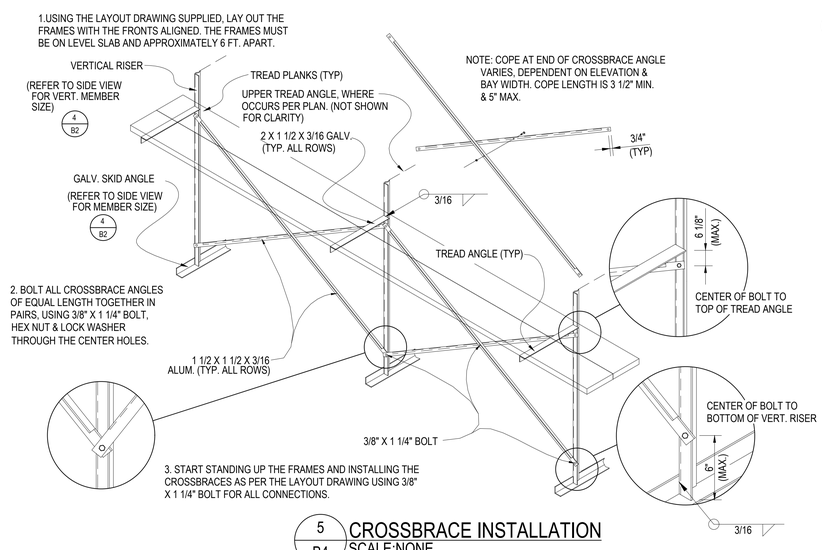
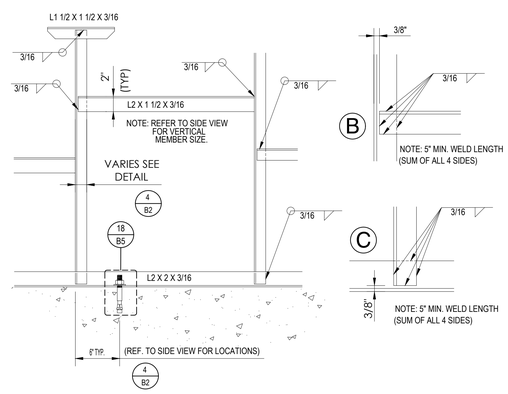



5 B4 CROSSBRACE INSTALLATION
SCALE:NONE




6 B4 ANGLE FAB DETAIL
SCALE: NONE

22" X 34" (11x17 = 1/2 indicated scale)

DETAIL NUMBER
SHEET NUMBER

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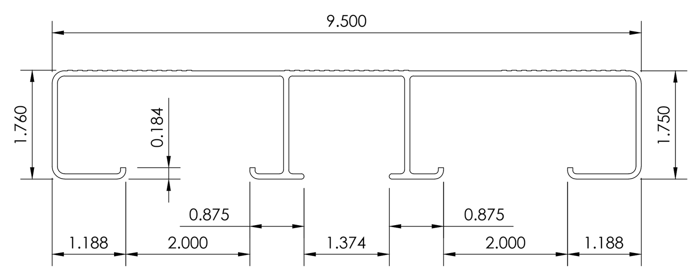
Established 1946

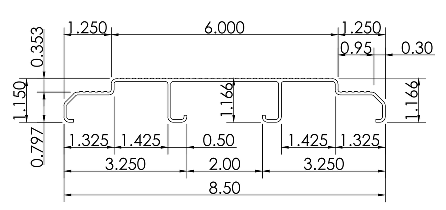
REGISTERED PROFESSIONAL ENGINEER BRIAN T. DEAN S 6087 STRUCTURAL STATE OF CALIFORNIA
Signed 01/23/26
PRINCIPAL

| REV | DATE | DESCRIPTION | REV BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |



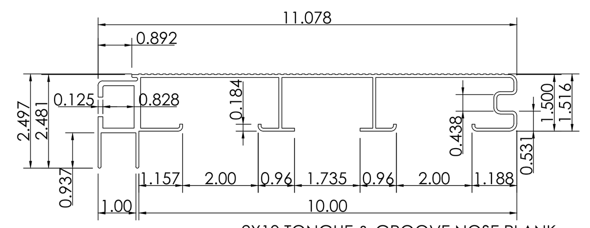

2X10 HEAVY ALUMINUM PLANK
.075 WALL , 1.769#/FT.
1. Ix = .843 IN. e-4
2. MATERIAL - 6063 T-6
3. MIN. MAT. PROP. - 25000 PSI
4. E = 10,000,000 PSI
5. C = 1.10 IN.

**1 / B5 — 2 X 10 HEAVY ALUMINUM PLANK DETAIL**
NOT TO SCALE



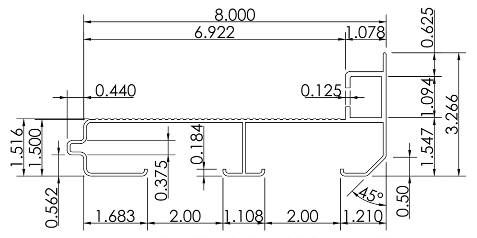

1X8 1/2 ALUMINUM FLAT RISER PLANK
.075 WALL , 1.283#/FT.
1. Ix = .151 IN. e-4
2. MATERIAL - 6063 T-6
3. MIN. MAT. PROP. - 25000 PSI
4. E = 10,000,000 PSI
5. C = .799 IN.

**2 / B5 — 1 X 6.5 ALUMINUM RISER PLANK DETAIL**
NOT TO SCALE



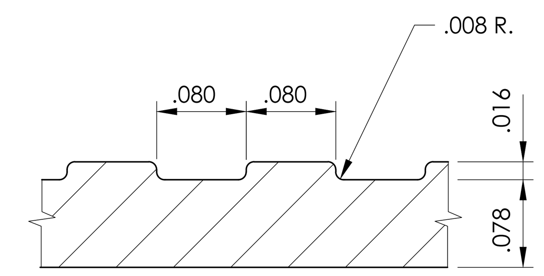

2X10 TONGUE & GROOVE NOSE PLANK
.078 WALL , 2.750#/FT.
1. Ix = 1.05 IN. e-4
2. MATERIAL - 6063 T-6
3. MIN. MAT. PROP. - 25000 PSI
4. E = 10,000,000 PSI
5. C = .813 IN.

**3 / B5 — 2 X 10 TONGUE & GROOVE ALUMINUM NOSE PLANK DETAIL**
NOT TO SCALE



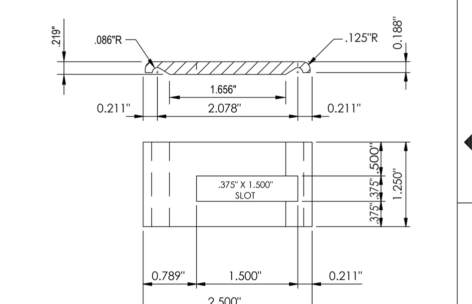

2X8 TONGUE & GROOVE HEEL PLANK
.078 WALL , 2.145#/FT.
1. Ix = 1.18 IN. e-4
2. MATERIAL - 6063 T-6
3. MIN. MAT. PROP. - 25000 PSI
4. E = 10,000,000 PSI
5. C = 1.28 IN.

**4 / B5 — 2 X 8 TONGUE & GROOVE ALUMINUM HEEL PLANK DETAIL**
NOT TO SCALE

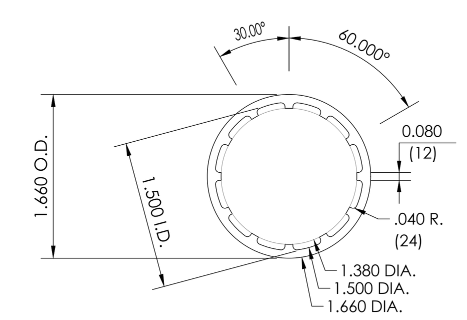



NOTE: TYPICAL FOR ALL PLANKS.

**5 / B5 — FLUTED SURFACE DETAIL**
NOT TO SCALE

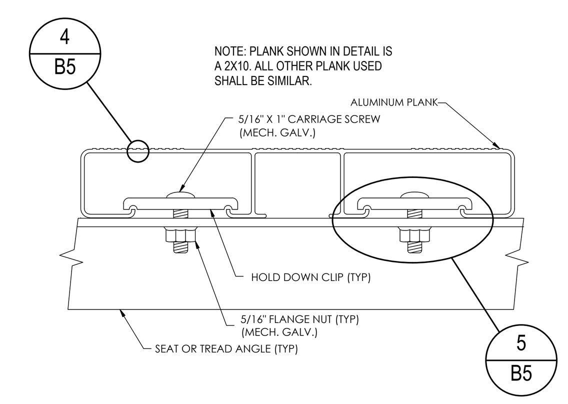



**6 / B5 — HOLD DOWN CLIP DETAIL**
NOT TO SCALE

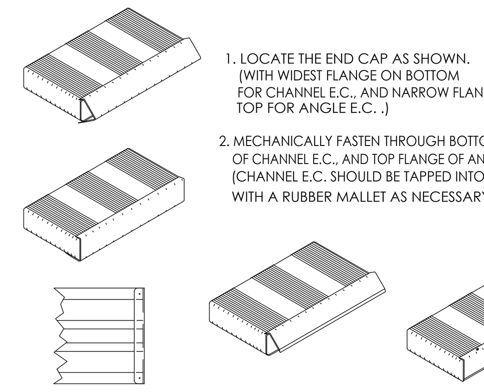



AREA .465 , .558#/FT.
MATERIAL - 6063 T-6

**7 / B5 — 1 5/8" O.D. ALUMINUM RAIL DETAIL**
NOT TO SCALE

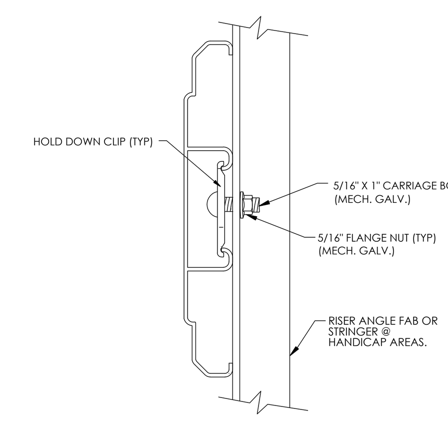



**8 / B5 — PLANK INSTALLATION DETAIL**
NOT TO SCALE

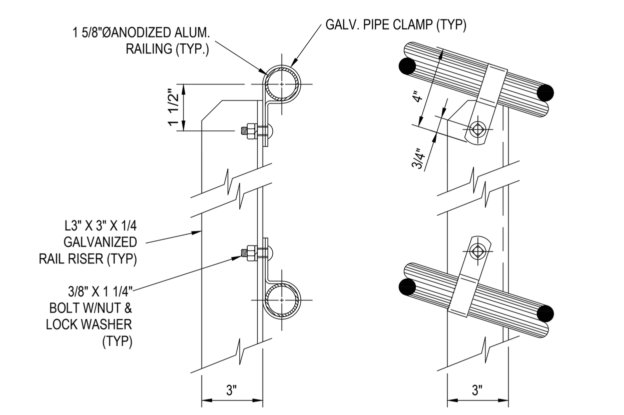


1. LOCATE THE END CAP AS SHOWN.
(WITH WIDEST FLANGE ON BOTTOM FOR CHANNEL E.C., AND NARROW FLANGE ON TOP FOR ANGLE E.C. .)
2. MECHANICALLY FASTEN THROUGH BOTTOM FLANGE OF CHANNEL E.C., AND TOP FLANGE OF ANGLE E.C. (CHANNEL E.C. SHOULD BE TAPPED INTO PLACE WITH A RUBBER MALLET AS NECESSARY .)

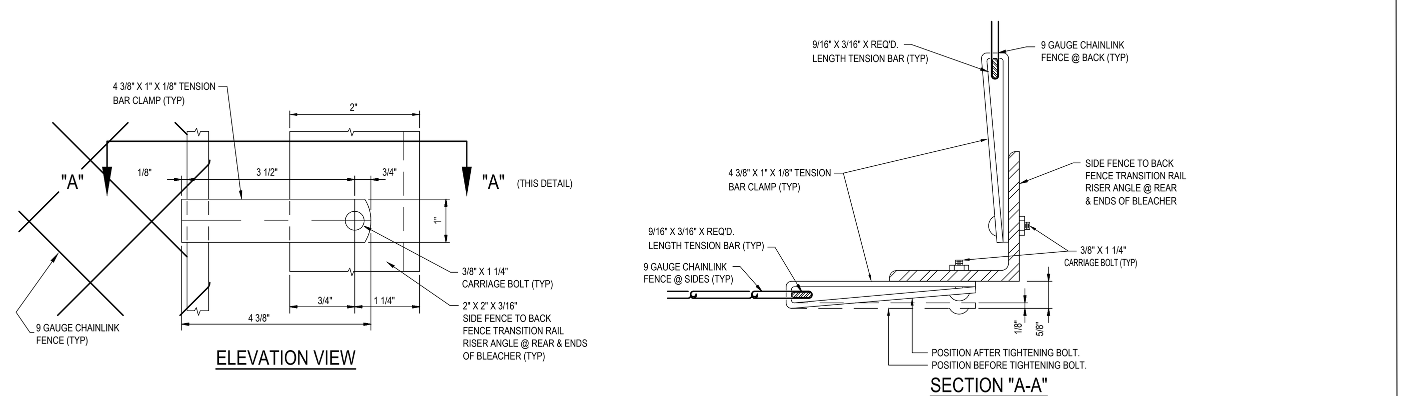
**9 / B5 — ENDCAP INSTALLATION DETAIL**
NOT TO SCALE



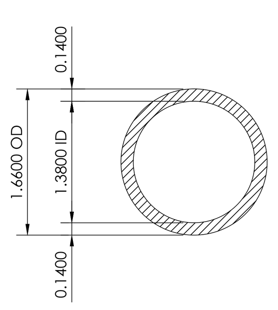

**10 / B5 — RISER PLANK INSTALLATION DETAIL**
NOT TO SCALE




**11 / B5 — RAILING TO RAIL RISER ATTACHMENT DETAIL**
NOT TO SCALE

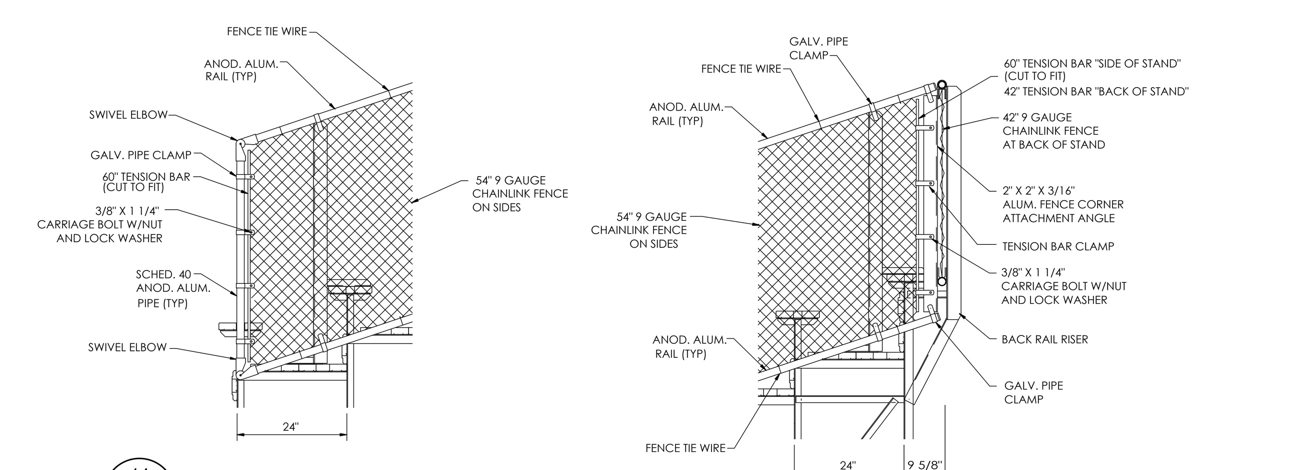



**12 / B5 — TENSION BAR CLAMP INSTALLATION DETAIL**
SCALE: NONE

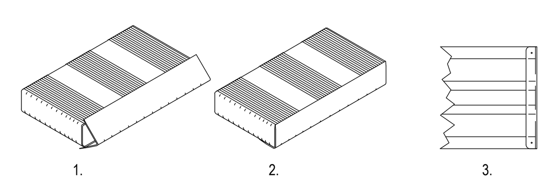



1. MATERIAL - 6063 T-6

**13 / B5 — SCHED. 40 ALUMINUM PIPE DETAIL**
NOT TO SCALE

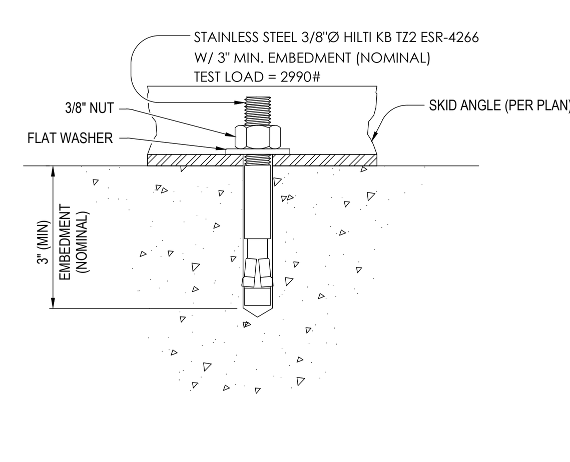



**14 / B5 — FENCE INSTALLATION**
NOT TO SCALE




1. LOCATE THE END CAP AS SHOWN.
(WITH NARROW ANGLE ON BOTTOM)
2. MECHANICALLY FASTEN THROUGH BOTTOM OF END CAP WITH 5/32 POP RIVETS.

**16 / B5 — ANGLE END CAP INSTALLATION @ SIDE RAIL RISER**
NOT TO SCALE




**17 / B5 — WEDGE ANCHOR DETAIL**
NO SCALE

NOTE: 5 ROW NON-ELEVATED BLEACHERS ARE EXEMPT FROM DSA STRUCTURAL & FLS REVIEW PER DSA IR A-22 SECTION 1.2.1 AND APPENDIX-CONSTRUCTION PROJECTS AND ITEMS ELIGIBLE FOR EXEMPTION

DETAIL NUMBER
SHEET NUMBER

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TAYLOR & SYFAN
STRUCTURAL ENGINEERS
CENTRAL COAST OFFICE | Ph: (626) 793-7438 Fax: (626) 793-7439 Toll: (800) 579-3881
553 S. Oak Knoll Ave. Pasadena, CA 91101
http://www.taylorsyfan.com/

Southern® BLEACHER COMPANY
GRANDSTANDS • BLEACHERS • STADIUMS
PO Box One, Graham, Texas 76450
801 Fifth Street.
Phone: 940/549-0733 Fax: 940/549-1365
Established 1946

REGISTERED PROFESSIONAL ENGINEER
BRIAN T. DEAN
S 6087
STRUCTURAL
STATE OF CALIFORNIA
Signed 01/23/26
PRINCIPAL

TYPE: ALUMINUM PLANK DETAILS
11" RISE X 26" TREAD / MITERED (3 ROWS)
TITLE: LONG BEACH USD
LONG BEACH POLY SOFTBALL
LONG BEACH, CALIFORNIA

| REV | BY | DATE | DESCRIPTION |
|---|---|---|---|
| 1 | MG | 11/21/25 | REFERENCE TO PLANK DETAILS |
| 1 | MG | 1/23/26 | DSA NOTE ADDED TO ALL SHEETS |

| DATE | DRAWN | CHECKED |
|---|---|---|
| 11/5/25 | MG | DMC |

JOB NUMBER #25326
SHEET B5 OF B5
22" X 34" (11x17 = 1/2 indicated scale)
25326

Agency Approval
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Client
Long Beach Unified School District
2425 Webster Avenue
Long Beach, CA 90810

| | |
|---|---|
| LBUSD No.: | 9216-654 |
| PTN No.: | 64725-585 |

Facilities Management

Stamps

Architect
PBK
ARCHITECT
8163 ROCHESTER AVE.
SUITE 100
RANCHO CUCAMONGA, CA 91730
Tel: 909-987-0909
www.pbk.com

Consultant

Project
PROJECT ADDRESS
1545 LONG BEACH BLVD.
LONG BEACH, CA 90813
**POLYTECHNIC HIGH SCHOOL IMPROVEMENTS**
**100% CONSTRUCTION DOCUMENTS**

DSA #03-125644 File 19-H15

Issue

| REV. | DATE | DESCRIPTION |
|---|---|---|

Sheet Info
JOB No.: 240469
SCALE: As indicated
PROJ MGR: Author
DATE: 11/21/25

Sheet Title
**ALUMINUM PLANK DETAILS**

Sheet No.
**B5**

# MODULAR BUILDINGS
# (2) 12'x40'

## (BASED: PC 04-122000)

BY


## SILVER CREEK MODULAR, INC.
2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE : (951) 943-5393 FAX : (951) 943-2211


# LONG BEACH USD
## POLYTECHNIC HS - CONCESSION & RESTROOMS

| BUILDING DATA | |
|---|---|
| NUMBER OF STORIES: | 1 - STORY |
| OCCUPANCY: | B, S-1 + S-2 (NONSEPARATED) |
| TYPE OF CONSTRUCTION: | V-B |
| FLOOR LIVE LOAD: | 50 PSF + 150 PSF AT STORAGE 1101, SEE 2/A-1.02N |
| ROOF LIVE LOAD: | 20 PSF |
| FLOOR DEAD LOAD: | CONCRETE FLOOR - 35 PSF |
| ROOF DEAD LOAD: | 18 PSF (INCLUDING SPRINKLER LOAD AND SOLAR ALLOWANCE) |
| SOLAR ALLOWANCE: | 0.6 PSF OVER ENTIRE ROOF AREA |
| RAMP LIVE LOAD: | 100 PSF |
| BUILDING AREA:<br><br>ALLOWABLE AREA: 9,000 S.F.<br><br>(ALL w/o OVERHANGS) | 480 SF (NO OVERHANG)<br>570 SF (WITH OVERHANG) |

SEE PC DRAWING A-0 FOR BUILDING DATA, NOTES, APPLICABLE CODES AND OTHER INFORMATION NOT SHOWN

ALL REFERENCES TO "BY OTHERS" OR "NOT BY SILVER CREEK" INCLUDED WITH IN THIS DRAWING PACKAGE SHALL BE INTERPRETED TO MEAN "BY GENERAL CONTRACTOR"

## SHEET INDEX


### PROJECT SPECIFIC

| SHEET | |
|---|---|
| A-0N | COVER SHEET |
| A-0.2N | SCHEDULES |
| A-0.55N | T-24 PERFORMANCE FORM |
| A-1.02N | FLOOR PLAN |
| A-1.03N | ENLARGED PLANS & ELEVATIONS |
| A-1.04N | ENLARGED PLANS & ELEVATIONS |
| A-2.02N | REFLECTED CEILING PLAN |
| A-3.01N | ROOF PLAN |
| A-4.04N | EXTERIOR ELEVATIONS |
| A-5.50N | ARCHITECTURAL DETAILS |
| F-2.11N | CONCRETE FOUNDATION PLAN |
| P-1.02N | PLUMBING PLAN & SCHEDULE |
| E-1.02N | ELECTRICAL PLAN & SCHEDULE |

### PC SHEETS

| SHEET | ARCHITECTURAL |
|---|---|
| A-0 | COVER SHEET |
| A-0A | T & I FORMS |
| A-0B | T & I FORMS |
| A-0.1 | SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE |
| A-0.2 | SCHEDULES |
| A-0.3 | TYPICAL KEY PLANS - 24' TO 120' x 40' |
| A-0.50 | DESIGN ENERGY VALUES - CONC FLOOR - ROOF HVAC |
| A-0.6A | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.6B | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.6C | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.7 | PV SYSTEM REQ'S, ENERGY MANDATORY MEASURES & CALGREEN SPEC'S |
| A-1.03 | FLOOR PLAN - 48' TO 120' x 40' |
| A-1.07 | TOILET BUILDING 24' x 40' PLUMBING PLAN |
| A-2.03 | REFLECTED CEILING PLAN - 48' TO 120' x 40' |
| A-2.20 | CEILING DETAILS - T-GRID |
| A-2.21 | CEILING DETAILS - HARD LID |
| A-3.43 | ROOF PLAN - 48' TO 120' x 40' - TPO ROOF - MONO SLOPE |
| A-3.90 | ROOFING DETAILS - TPO ROOF |
| A-4.04 | EXTERIOR ELEVATIONS - 48' TO 120' x 40' - MONO SLOPE |
| A-5.01 | CROSS SECT. - MONO SLOPE |
| A-5.05 | CROSS SECTION |
| A-5.51 | ARCHITECTURAL DETAILS - WOOD STUD - PLASTER |
| A-5.70 | ARCHITECTURAL DETAILS - FLOOR |
| A-5.72 | DETERIORATION PROTECTION - STUCCO EXTERIOR FINISH - CONC FLOOR - WD STUDS |
| A-5.80 | ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS |
| A-5.81 | ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS |
| A-6.03 | INTERIOR ELEVATIONS - 48' TO 120' x 40' |

| SHEET | FOUNDATION |
|---|---|
| F-2.11 | CONCRETE FOUNDATION PLAN - BELOW GRADE CONCRETE FLOOR |
| F-2.50 | CONCRETE FOUNDATION DETAILS - BELOW GRADE |
| F-2.51 | FOUNDATION DETAILS - CONCRETE |

| SHEET | STRUCTURAL |
|---|---|
| S-0.1 | STRUCTURAL SPECIFICATIONS |
| S-1.11 | FLOOR FRAMING PLAN - CONCRETE FLOOR |
| S-1.60 | FLOOR FRAMING DETAILS - CONCRETE FLOOR |
| S-2.01 | ROOF FRAMING PLAN - MONO SLOPE |
| S-2.50 | ROOF FRAMING DETAILS - MONO SLOPE |
| S-2.60 | ROOF FRAMING DETAILS |
| S-2.90 | ROOF FRAMING DETAILS - TRUSS |
| S-3.01 | BUILDING SECTION - MONO SLOPE |
| S-5.00 | WALL FRAMING ELEVATIONS - WOOD STUDS |
| S-5.10 | WALL FRAMING DETAILS - WOOD STUDS |
| S-5.11 | WALL FRAMING DETAILS - WOOD STUDS |

| SHEET | PLUMBING |
|---|---|
| P-1.01 | PLUMBING DETAILS AND SCHEDULE |

| SHEET | MECHANICAL |
|---|---|
| M-0.1 | MECHANICAL NOTES, SCHEDULES, AND DETAILS |
| M-4.01 | MECHANICAL PLAN - ROOF MOUNT - 48' TO 120' x 40' |
| M-4.02 | MECHANICAL ROOF PLAN - ROOF MOUNT - 48' TO 120" x 40' |

| SHEET | ELECTRICAL |
|---|---|
| E-1.03 | ELECTRICAL PLAN AND SCHEDULE - 48' TO 120' x 40' |


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL


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PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

COVER SHEET

REVISIONS

1
2
3
4
5


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES

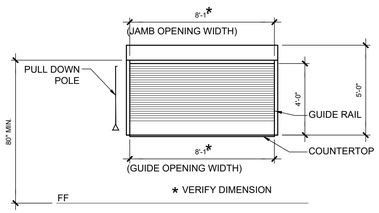
| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

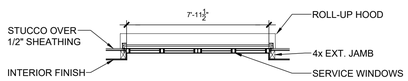
A-0N

# ROLL-UP DOOR

| WINDOW NO. | QTY | TYPE | WIDTH | HEIGHT | FUNCTION | FRAME MATERIAL | GLASS MATERIAL | NOTES |
|---|---|---|---|---|---|---|---|---|
| C | 1 | A | 8'-0" | 4'-0" | MANUAL | METAL | N/A | 'COOKSON' ROLL-UP COUNTER DOOR W/ MANUAL CHAIN OPERATION |




ROLL-UP COUNTER DOOR




ROLL-UP COUNTER DOOR

# WINDOW SCHEDULE

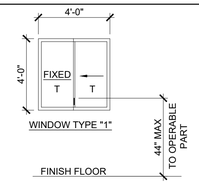
| WINDOW NO. | TYPE | SIZE WIDTH | SIZE HEIGHT | FRAME MAT. | OPERABLE | MAX U-FACTOR | REQUIRED SHGC | MIN VT | NFRC RATED | GLASS SPECS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 1 | 4'-0" | 4'-0" | ANOD | YES | 0.520 | 0.350 | 0.610 | YES | DP | |

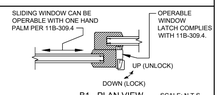
# WINDOW FINISH

ANOD: CLEAR ANODIZED ALUMINUM FRAME
DP: 3/16" MINIMUM DUAL PANE TEMPERED GLASS OF SOLARBAN 60 OVER CLEAR
T: TEMPERED GLASS

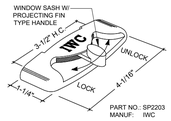
NOTES:
1. TEMPORARY NFRC LABELS SHALL STAY ON WINDOWS UNTIL PROJECT INSPECTOR HAS VERIFIED INSTALLED FENESTRATION MATCHES WINDOW SCHEDULE ON PLAN.

# WINDOW TYPE




B1 - PLAN VIEW SCALE: N.T.S.




B2 - PERSPECTIVE VIEW of OPERABLE WINDOW LATCH

NOTE:
1. OPERABLE WINDOW CONTROLS SHALL COMPLY WITH CBC 11B.309.4 AND SHALL NOT REQUIRE TIGHT GRASPING,PINCHING OR TWISTING OF THE WRIST.
2. WINDOW CONTROLS SHALL NOT REQUIRE MORE THAN 5LBS OF FORCE TO OPEREATE
3. THE REQUIRED FORCE TO PUSH/PULL THE WINDOW PANEL SHALL NOT EXCEED 5LBS
4. ALL SAFETY GLAZING SHALL BE IDENTIFIED PER CBC CHAPTER 24.

# DOOR SCHEDULE

| DOOR NO | WIDTH | HEIGHT | DOOR TYPE | DOOR MAT/FIN | FRAME MAT/FIN | HARDWARE GROUP | LOCK FROM THE INSIDE | LOCATION |
|---|---|---|---|---|---|---|---|---|
| 1101A | 3'-0" | 7'-0" | A | HMD | HMF | 455 | YES | STORAGE |
| 1102A | 3'-0" | 7'-0" | A | HMD | HMF | 455 | NO | ELECTRIC ROOM |
| 1103A | 3'-0" | 7'-0" | A | HMD | HMF | 455 | NO | MDF ROOM |
| 1104A | 3'-0" | 7'-0" | A | HMD | HMF | 455 | NO | CUSTODIAL - 180° SWING |
| 1105A | 3'-0" | 7'-0" | B | HMD | HMF | 428.1 | YES | GENDER NEUTRAL |
| 1106A | 3'-0" | 7'-0" | B | HMD | HMF | 415 | NO | WOMENS RESTROOM |
| 1107A | 3'-0" | 7'-0" | B | HMD | HMF | 415 | NO | MENS RESTROOM |
| 1108A | 3'-0" | 7'-0" | A | HMD | HMF | 455 | YES | CONCESSIONS |

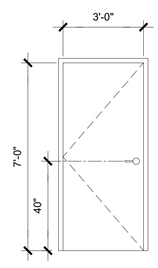
# DOOR MATERIAL AND FINISH ABBREVIATIONS

HMD: 12 GA. HINGE CHANNEL, 14 GA. CLOSER REINFORCEMENT, 16 GA. TOP & BOTTOM END CHANNEL, STIFFENERS W/POLYSTYRENE CORE, AND 14 GA. FACE SKINS BONDED CORE PER LBUSD FDS

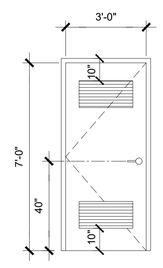
HMF: 16 GA. PER LBUSD FDS

NOTE:
EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 1.450 MAX

# DOOR TYPES & NOTES




DOOR TYPE "A"




DOOR TYPE "B"

# FINISH SCHEDULE

| ROOM NAME | FLOORING FLOOR | FLOORING BASE | WALL FINISH FRONT | WALL FINISH LEFT | WALL FINISH REAR | WALL FINISH RIGHT | CEILING CEILING | CEILING CEILING HT | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| STORAGE 1101 | CONC | 4" TS | GYP | GYP | GYP | GYP | CP | 9'-0" | |
| ELECTRICAL ROOM 1102 | CONC | 4" TS | GYP | GYP | GYP | GYP | OPEN | OPEN | |
| MDF ROOM 1103 | CONC | 4" TS | GYP | GYP | GYP | GYP | OPEN | OPEN | |
| CUSTODIAL 1104 | CONC | 4" TS | GYP | GYP | GYP | GYP | OPEN | OPEN | FRP @ MOP SINK, 12" BEYOND MOP SINK AND 8'-0" AFF |
| GENDER NEUTRAL 1105 | CTF | CT | CT | CT | CT | CT | HC | 7'-0" | FULL HEIGHT w/PATTERN |
| WOMENS RESTROOM 1106 | CTF | CT | CT | CT | CT | CT | HC | 7'-0" | FULL HEIGHT w/PATTERN |
| MENS RESTROOM 1107 | CTF | CT | CT | CT | CT | CT | HC | 7'-0" | FULL HEIGHT w/PATTERN |
| CONCESSIONS 1108 | CTF | CT | GYP | GYP | GYP | GYP | CP | 9'-0" | |

# FLOOR, WALL, CEILING MATERIALS

FLOORING
CONC: SEALED CONCRETE
CTF: CERAMIC TILE FLOORING
EPOXY: EPOXY FLOORING

WALLS
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (LEVEL 4 w/ORANGE PEEL FINISH)
FRP: 1/8" FIBER REINFORCED PANEL OVER 1/2" WATER RESISTANT GYPSUM BOARD
CT: CERAMIC TILE OVER 5/8" TILE BACKER (FULL HEIGHT TO CEILING), DALTILE OR APPROVED EQUAL

BASE
4" TS: 4" TOP SET BASE (RUBBER COVED)
CT: 6" CERAMIC TILE COVE BASE, DALTILE OR APPROVED EQUAL

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING) (LEVEL 4 w/ORANGE PEEL FINISH)

# DOOR HARDWARE

SEE PC DRAWING A-0.2 FOR NOTES, LEGENDS AND OTHER INFORMATION NOT SHOWN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

SCHEDULES

REVISIONS
1
2
3
4
5

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

A-0.2N

STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| *This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2I, for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.* | | |
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 1 of 8)** |
| **Project Address:** | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| A. GENERAL INFORMATION | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Long Beach | 04 | Total Illuminated Hardscape Area ($ft^2$) | 1240 |
| 02 | Climate Zone | 6 | | | |
| 03 | Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): | | | | |
| ☐ | LZ-0: Very Low - Undeveloped Parkland | ☐ LZ-2: Moderate - Urban Clusters | ☐ | LZ-4: High - Must be reviewed by CA Energy Commission for Approval | |
| ☐ | LZ-1: Low - Rural Areas | ☒ LZ-3: Moderately High - Urban Areas | | | |
| 05 | Occupancy Types within Project | | | | |
| ● School or Classroom | | | | | |

| B. PROJECT SCOPE | | | |
|---|---|---|---|
| *This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.* | | | |
| **My Project Consists of:** | | | |
| 01 | 02 | | |
| ☒ New Lighting System | Must Comply with Allowances from 140.7 / 170.2(e)6 | | |
| ☐ Altered Lighting System | Is your alteration increasing the connected lighting load (Watts)? | ○ Yes | ○ No |
| 03 | 04 | 05 | |
| % of Existing Luminaires Being Altered[1] | Sum Total of Luminaires Being Added or Altered | Calculation Method | |
| ☐ < 10% ☐ >= 10% and < 50% ☐ >= 50% | | | |
| ***Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.*** | | | |
| *[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.* | | | |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 2 of 8)** |
| | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| C. COMPLIANCE RESULTS | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.* | | | | | | | | | | | | | | | |
| **Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv** | | | | | | | | | | | | **Compliance Results** | | | |
| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | 09 |
| General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I) | + | Per Application 140.7(d)2 / 170.2(e)6 (See Table J) | + | Sales Frontage 140.7(d)2 (See Table K) | + | Ornamental 140.7(d)2 / 170.2(e)6 (See Table L) | + | Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M) | OR | Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N) | = | **Total Allowed** (Watts) | ≥ | **Total Actual** (Watts) | **07 must be >= 08** |
| 329.64 | + | 136 | + | --- | + | --- | + | --- | OR | --- | = | 465.64 | ≥ | 170 | COMPLIES |
| **Shielding Compliance (See Table G for Details)** | | | | | | | | | | | | | | | N/A |
| **Controls Compliance (See Table H for Details)** | | | | | | | | | | | | | | | COMPLIES |

| D. EXCEPTIONAL CONDITIONS |
|---|
| *This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.* |

| E. ADDITIONAL REMARKS |
|---|
| *This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.* |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 3 of 8)** |
| | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| F. OUTDOOR LIGHTING FIXTURE SCHEDULE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.* | | | | | | | | | | | |
| **Designed Wattage:** | | | | | | | | | | | |
| 01 | 02 | | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
| Name or Item Tag | Complete Luminaire Description | | Watts per luminaire[1,2] | How is Wattage determined | Total Number Luminaires [2] | Luminaire Status[3] | Excluded per 140.7(a) / 170.2(e)6A | Design Watts | Cutoff Req. > 6,200 initial lumen output 130.2(b) /160.5(c)1 [4] | Field Inspector | |
| | | | | | | | | | | Pass | Fail |
| WP1 | LED Wall Pack | ☐ Linear | 17 | Mfr. Spec | 10 | New | ☐ | 170 | NA: < 6200 lumens | ☐ | ☐ |
| **Total Design Watts:** | | | | | | | | 170 | | | |

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
*EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)*

*[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
*[2] For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
*[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
*[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

| G. SHIELDING REQUIREMENTS (BUG) |
|---|
| *This section does not apply to this project.* |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 4 of 8)** |
| | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| H. OUTDOOR LIGHTING CONTROLS | | | | | |
|---|---|---|---|---|---|
| *This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.* *Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit* | | | | | |
| **Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings** | | | | | |
| 01 | 02 | 03 | 04 | 05 | |
| Area Description | Shut-Off 130.2(c1) / 160.5(c) | Auto-Schedule 130.2(c2) / 160.5(c) | Motion Sensor 130.2(c3) / 160.5(c) | Field Inspector | |
| | | | | Pass | Fail |
| Hardscape: "WP1" | Astronomical Timer | Provided | NA: Each Luminaire <= 40 Watts | ☐ | ☐ |

*[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5.A to confirm compliance with the specific light source technologies listed.*
*[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
*[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 5 of 8)** |
| | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| I. LIGHTING POWER ALLOWANCE (per 140.7 /170.2(e)) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *This table includes areas using allowance calculations per 140.7 /170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.* | | | | | 01 | | | | |
| | | | | | "Use it or lose it" Allowance (select all that apply) (select all that apply) | | | | |
| | | | | ☒ General Hardscape Allowance Table I (below) | ☒ Per Application Table J | ☐ Sales Frontage Table K | ☐ Ornamental Table L | ☐ Per Specific Area Table M | |
| Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel | | | | | | | | | |
| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | | |
| Area Description | Area Wattage Allowance (AWA) | | | Linear Wattage Allowance (LWA) | | | Total General AWA + LWA (Watts) | | |
| | Illuminated Area ($ft^2$) | Allowed Density ($W/ft^2$) | Area Allowance (Watts) | Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | | | |
| Hardscape | 1240 | 0.021 | 26.04 | 268 | 0.2 | 53.6 | 79.64 | | |
| **Initial Wattage Allowance for Entire Site (Watts):** | | | | | | | 250 | | |
| **Instances of Initial Wattage Allowance (LZ 0 only)[1]** | | | | | | | | | |
| **Total General Hardscape Allowance (Watts):** | | | | | | | 329.64 | | |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 6 of 8)** |
| | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| J. LIGHTING ALLOWANCE: PER APPLICATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| *This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.* | | | | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
| | | CALCULATED ALLOWANCE (Watts) | | | DESIGN WATTS | | | | | |
| Area Description | Application per Table 140.7-B [1] | # of Locations | Allowance per Location[2] | Extra Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | Additional Allowance (Watts) | |
| Entry | Building Entrance/Exit | 8 | 19 | 152 | WP1 | 17 | 8 | 136 | 136 | |
| Total Design Watts for this Area: | | | | | | | | 136 | | |
| **Total Allowance (Watts) All Areas:** | | | | | | | | | 136 | |

*[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
*[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
*[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

| K. LIGHTING ALLOWANCE: SALES FRONTAGE |
|---|
| *This section does not apply to this project.* |

| L. LIGHTING ALLOWANCE: ORNAMENTAL |
|---|
| *This section does not apply to this project.* |

| M. LIGHTING ALLOWANCE: PER SPECIFIC AREA |
|---|
| *This section does not apply to this project.* |

| N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only) |
|---|
| *This section does not apply to this project.* |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 7 of 8)** |
| | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION |
|---|
| *Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online* |
| Form/Title |
| NRCI-LTO-E - Must be submitted for all buildings |

| P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE | |
|---|---|
| *Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html* | |
| Form/Title | Systems/Spaces To Be Field Verified |
| NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. | Hardscape: "WP1" |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTO-E |
|---|---|---|
| **Project Name:** Long Beach Poly HS - Concession Building | **Report Page:** | **(Page 8 of 8)** |
| **Project Address:** | **Date Prepared:** | 2025-11-10T14:09:04-05:00 |

| DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | |
|---|---|
| **I certify that this Certificate of Compliance documentation is accurate and complete.** | |
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek | Signature Date: |
| Address: | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: | Phone: |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation provided to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Martin | Responsible Designer Signature: |
| Company: Silver Creek | Date Signed: |
| Address: | License: 2475 |
| City/State/Zip: | Phone: |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL


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PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

T-24
PERFORMANCE FORM

REVISIONS
1
2
3
4
5


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
STRUCTURAL
STATE OF CALIFORNIA

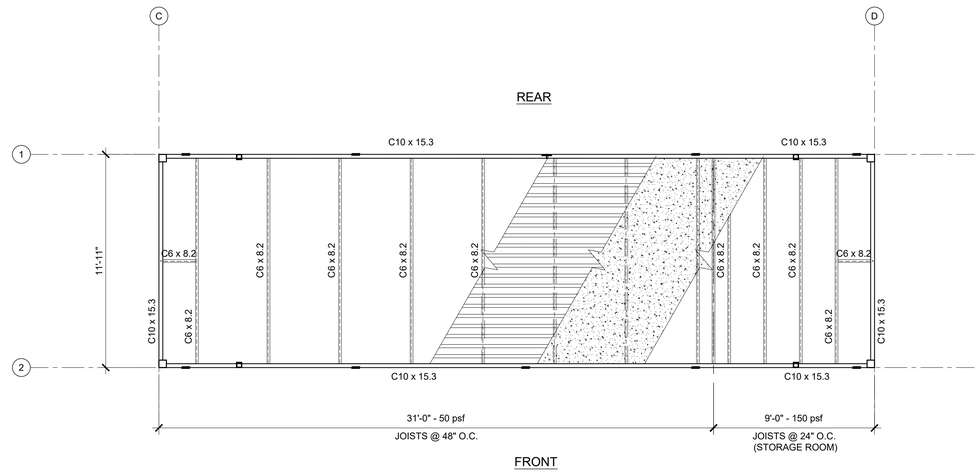
SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

A-0.55N

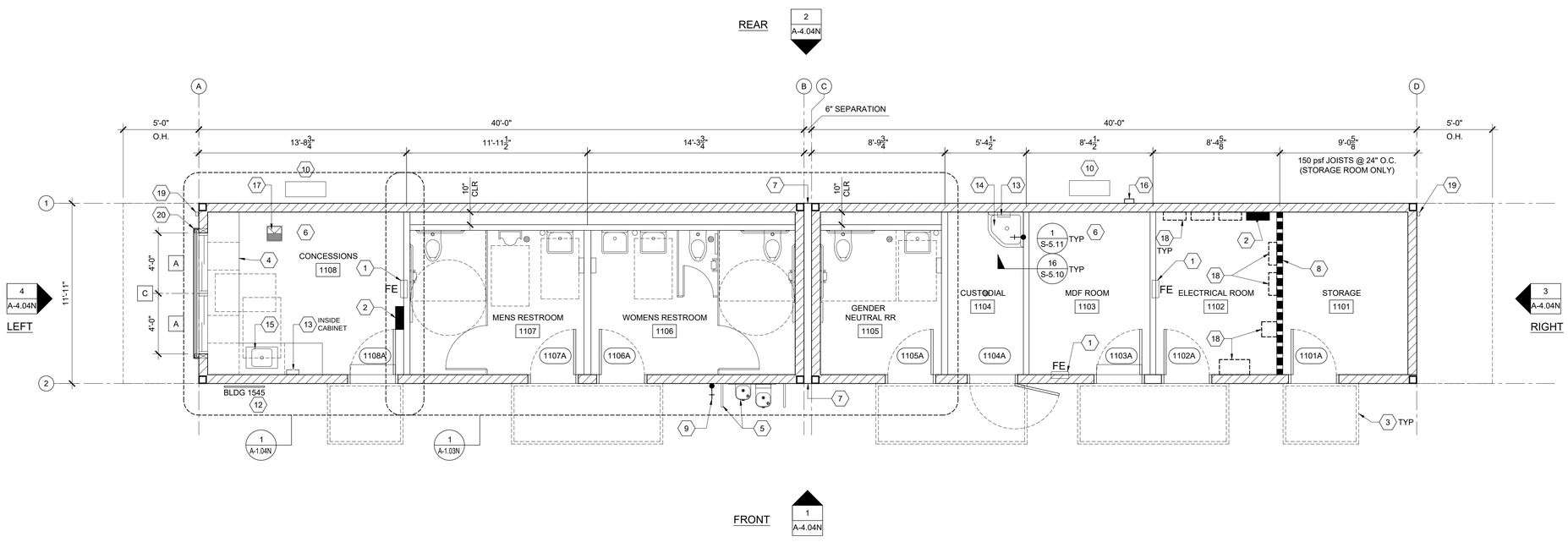
SEE PC DRAWING S-1.11 FOR NOTES, DIMENSIONS, DETAIL REFERENCES AND OTHER INFORMATION NOT SHOWN




N

## PARTIAL FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - 0" | 2




N

## FLOOR PLAN

SCALE: 1/4" = 1' - 0" | 1

## # KEYNOTES

1. FIRE EXTINGUISHER, 5# DRY CHEMICAL W/2A-10BC U.L. RATING, SEMI RECESSED, TOP OF HANDLE TO BE +48" (MAX) AFF, 4" PROJECTION (MAX)
2. ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS
3. CANOPY ABOVE DOORS, SEE 20/S-2.60, TYP. SEE CEILING PLAN FOR DIMENSIONS
4. CASEWORK PER INTERIOR ELEVATIONS
5. DRINKING FOUNTAIN, SEE 1/A-5.81 AND PLUMBING DRAWINGS. SEE DETAIL 2/A-5.81 FOR DRINKING FOUNTAIN BARRIERS
6. FAN COIL UNIT, BOTTOM OF UNIT TO HAVE MIN. CLR. +80" A.F.F. SEE 12/A-5.50N
7. CLOSURE BETWEEN BUILDINGS PER 9/A-5.50N
8. 1-HR FIRE RATED WALL SEE DETAILS 9 & 19/A5.53
9. HOSE BIB SEE PLUMBING FIXTURE SCHEDULE
10. OUTDOOR CONDENSING UNIT, SEE 13/A-5.50N
11. STAINLESS STEEL COUNTERTOP
12. BUILDING ID SIGN
13. TANKLESS WATER HEATER, (WEIGHT = 25# MAX). FASTEN TO WALL w#8 SCREW IN EACH MOUNTING HOLE AS PROVIDED BY MANUFACTURER
14. MOP SINK, SEE PLUMBING PLAN & PLUMBING FIXTURE SCHEDULE. PROVIDE INTEGRATED COVE BASE W/3/8" RADIUS UP THE SIDE OF THE MOP SINK.
15. HAND SINK, SEE PLUMBING FIXTURE SCHEDULE
16. FIRE ALARM BACKBOX, NEMA 3R
17. 12"x12" FLOOR SINK, SEE PLUMBING PLAN
18. ELECTRICAL PANELS AND TRANSFORMER BY OTHERS, SEE SITE ELECTRICAL PLANS
19. DOWNSPOUT, SEE ROOF PLAN
20. ROLL-UP COILING DOOR, SEE 16+17+18/A-5.50N

## SYMBOLS LEGEND

- A — WINDOW PER SCHEDULE SHEET A-0.2N
- # — DOOR PER SCHEDULE SHEET A-0.2N
- 60" CIRCLE CLEAR SPACE
- 30"x48" CLEAR SPACE

SEE PC DRAWING A-1.02 FOR NOTES, LEGENDS AND OTHER INFORMATION NOT SHOWN

SEE PC SHEET A-0.1 FOR ALL SIGNAGE INFO

IDENTIFICATION STAMP
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(2) 12'X40' BLDG

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FLOOR PLAN

REVISIONS

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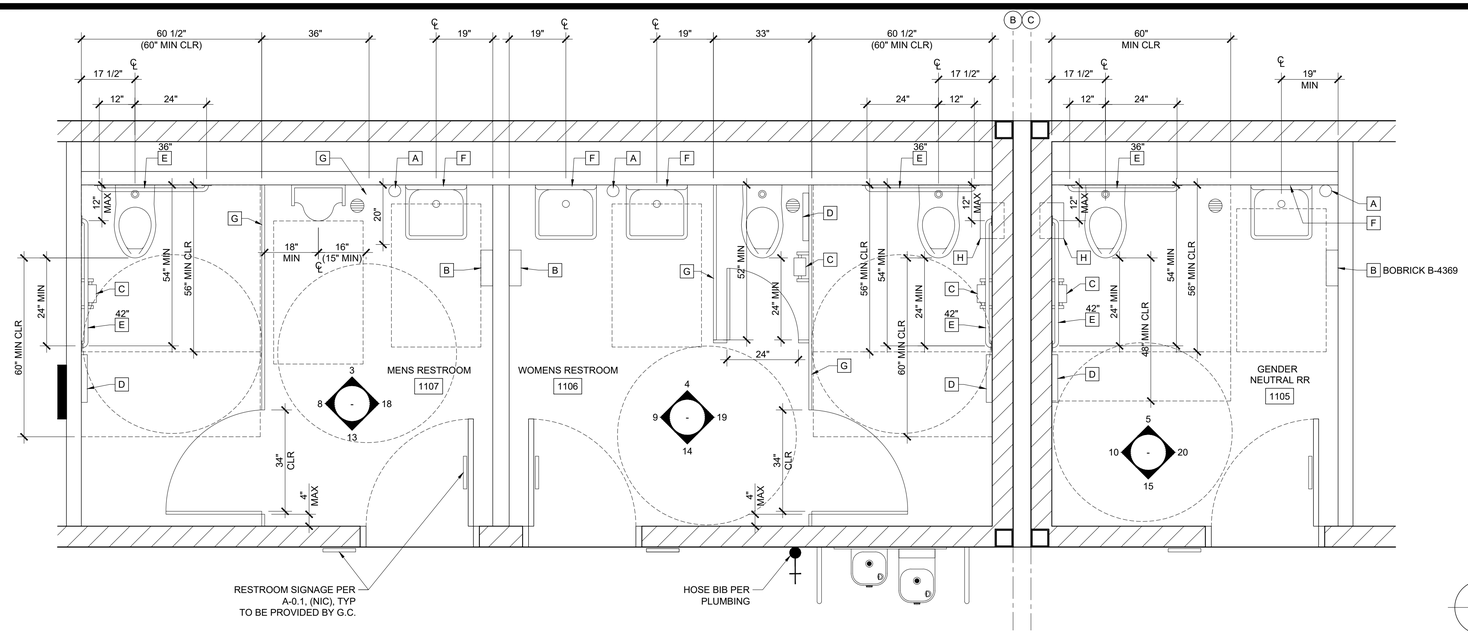
JOHN W STARK
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

A-1.02N




ENLARGED RESTROOMS PLAN - (AGE GROUP ADULT) SCALE: 1/2" = 1' - 0" 7

## TOILET ACCESSORIES

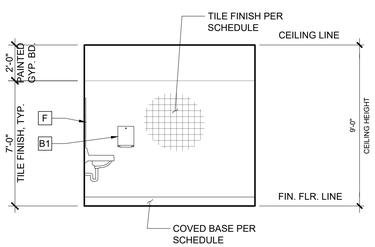
| | |
|---|---|
| A | SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION, NIC |
| B1 | PAPER TOWEL DISPENSER: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE, NIC |
| B2 | PAPER TOWEL DISPENSER: BOBRICK B-4369 RECESSED WITH WASTE RECEPTACLE 4" MAX PROJECTION |
| C | TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION |
| D | TOILET SEAT COVER DISPENSER: SURFACE MOUNTED 4" MAX PROJECTION, NIC |
| E | GRAB BAR, SEE PLUMBING SCHEDULE ON P-2.01N |
| F | MIRROR, SEE PLUMBING SCHEDULE ON P-2.01N |
| G | SOLID PLASTIC TOILET PARTITION / URINAL SCREEN |
| H | SANITARY NAPKIN RECEPTACLE |

## SYMBOLS LEGEND

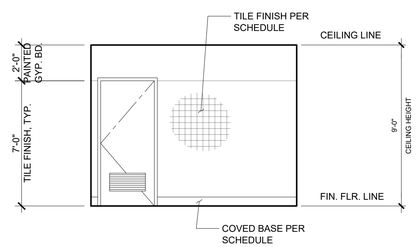
60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

SEE PC DRAWING P-2.01 FOR ACCESSIBILITY DIMENSIONS




INT ELEV - MENS RESTROOM-1107 SCALE: 1/4" = 1' - 0" 18

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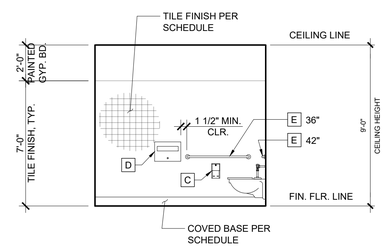


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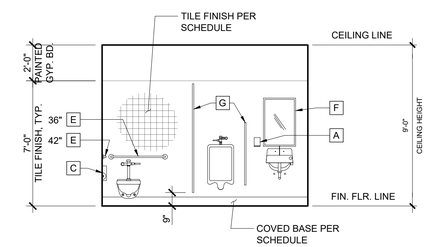


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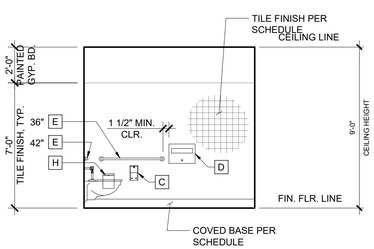


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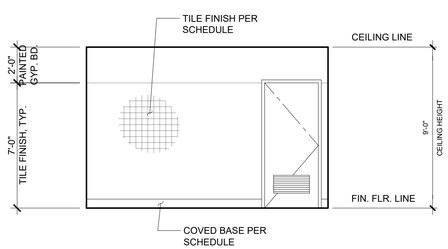
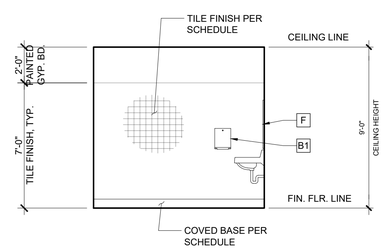
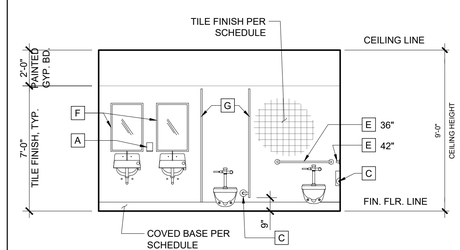


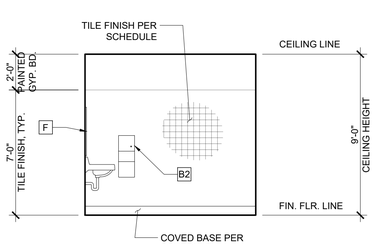

INT ELEV - WOMENS RESTROOM-1106 SCALE: 1/4" = 1' - 0" 14



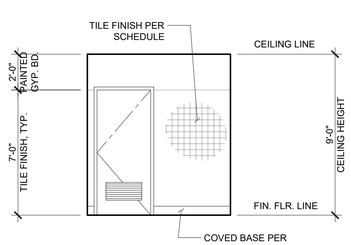

INT ELEV - WOMENS RESTROOM-1106 SCALE: 1/4" = 1' - 0" 9



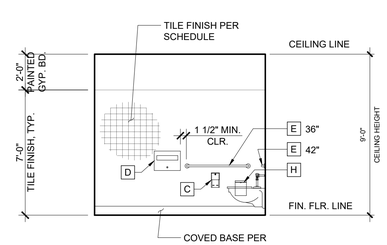

INT ELEV - WOMENS RESTROOM-1106 SCALE: 1/4" = 1' - 0" 4



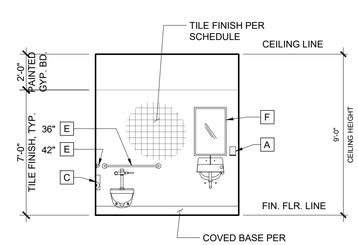

INT ELEV - GENDER NEUTRAL RR-1105 SCALE: 1/4" = 1' - 0" 20




INT ELEV - GENDER NEUTRAL RR-1105 SCALE: 1/4" = 1' - 0" 15




INT ELEV - GENDER NEUTRAL RR-1105 SCALE: 1/4" = 1' - 0" 10




INT ELEV - GENDER NEUTRAL RR-1105 SCALE: 1/4" = 1' - 0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 04/15/2026

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PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

ENLARGED PLANS
& INTERIOR ELEVATIONS

REVISIONS

1
2
3
4
5

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARR
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO.: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

A-1.03N

## KEYNOTES

1. FIRE EXTINGUISHER, 5# DRY CHEMICAL W/2A-10BC U.L. RATING, SEMI RECESSED, TOP OF HANDLE TO BE +48" (MAX) AFF, 4" PROJECTION (MAX)
2. ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS
3. HAND SINK, SEE PLUMBING FIXTURE SCHEDULE
4. CASEWORK PER INTERIOR ELEVATIONS
5. 12"x12" FLOOR SINK, SEE PLUMBING PLAN
6. FAN COIL UNIT, BOTTOM OF UNIT TO HAVE MIN. CLR. +80" A.F.F. SEE 12/A-5.50N
7. OUTDOOR CONDENSING UNIT, SEE 13/A-5.50N
8. BUILDING ID SIGN
9. TANKLESS WATER HEATER, (WEIGHT = 15# MAX). FASTEN TO WALL w#8 SCREW IN EACH MOUNTING HOLE AS PROVIDED BY MANUFACTURER
10. NOT USED

## TOILET ACCESSORIES

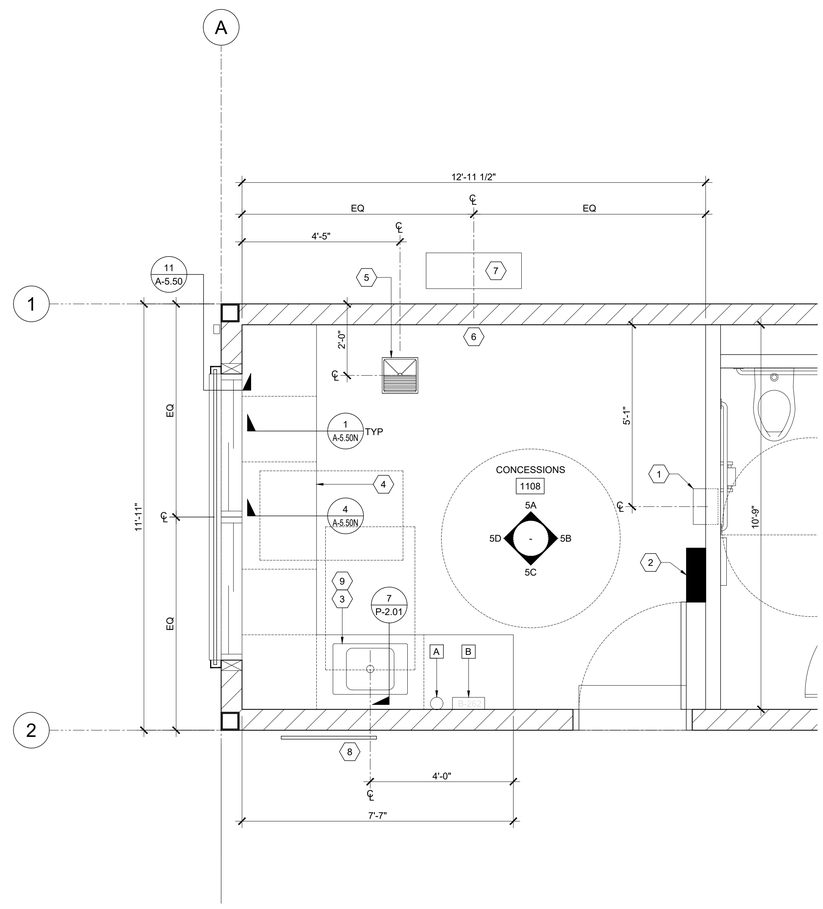
A — SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION, NIC

B — PAPER TOWEL DISPENSER: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE, NIC

## SYMBOLS LEGEND

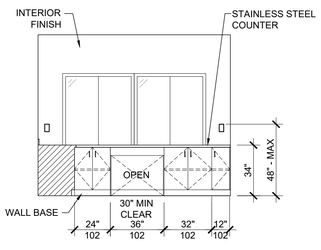
60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

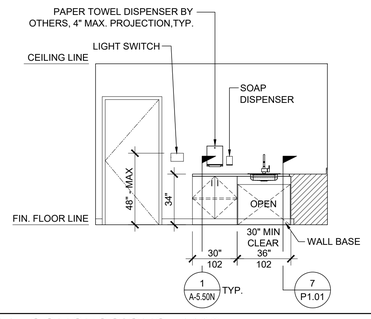



N

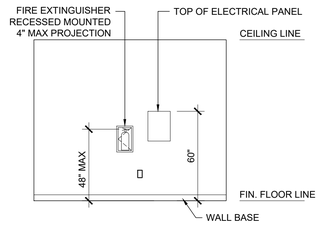
ENLARGED PLAN - CONCESSIONS 1108(AGE GROUP ADULT) SCALE: 1/2" = 1' - 0" 1



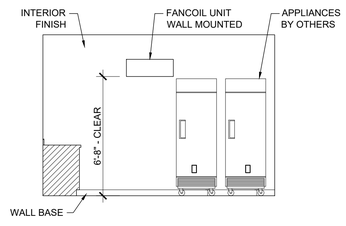

INT ELEV - CONCESSIONS -1108 SCALE: 1/4" = 1' - 0" 5D




INT ELEV - CONCESSIONS -1108 SCALE: 1/4" = 1' - 0" 5C




INT ELEV - CONCESSIONS -1108 SCALE: 1/4" = 1' - 0" 5B




INT ELEV - CONCESSIONS -1108 SCALE: 1/4" = 1' - 0" 5A

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PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

# ENLARGED PLAN & INTERIOR ELEVATIONS

REVISIONS

1
2
3
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5

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES

| | |
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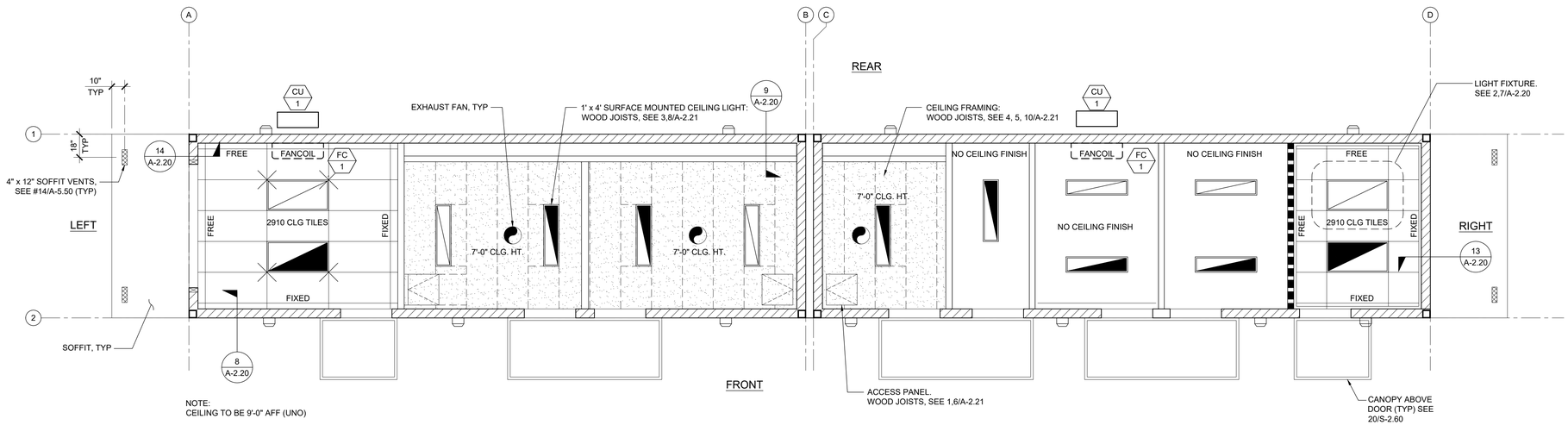
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

A-1.04N




NOTE:
CEILING TO BE 9'-0" AFF (UNO)

## EQUIPMENT & MATERIAL SCHEDULE

CU 1
MITSUBISHI MODEL #MUZ-GL09NA (OUTDOOR UNIT)
208/230-1 PH, MCA 9, MCOP 15
SEER=24.6, EER=15.4
HSPF=12.8, COP=4.4
WEIGHT=81#
SEE 1/A-5.50N

FC 1
MITSUBISHI MODEL #MSZ-GL09NA (INDOOR UNIT-WALL MOUNTED)
208/230-1 PH, MCA 1, MCOP 15
COOLING=9,000 BTUH, HEATING=10,900 BTUH
WEIGHT=22#
SEE 12/A-1.02N

NOTE:
FOR ALL REFLECTED CEILING NOTES
SEE SHEET A-0.1

SEE PC DRAWING A-2.01 FOR NOTES, LEGENDS AND OTHER INFORMATION NOT SHOWN

N

REFLECTED CEILING PLAN

SCALE: 1/4" = 1' - 0" | 1

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# REFLECTED CEILING PLAN

REVISIONS
1
2
3
4
5

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SILVER CREEK INDUSTRIES

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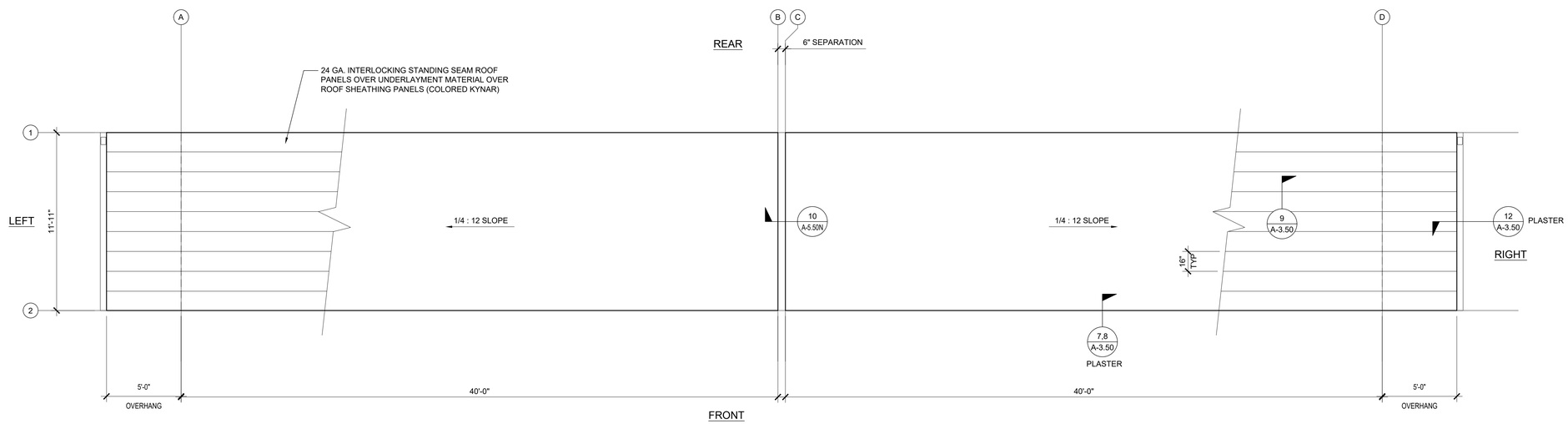
SHEET NUMBER

A-2.02N




SEE PC DRAWING A-3.01 FOR NOTES, SOLAR ZONE AND OTHER INFORMATION NOT SHOWN

N

ROOF PLAN

SCALE: 1/4" = 1' - 0" | 1

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# ROOF PLAN

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2
3
4
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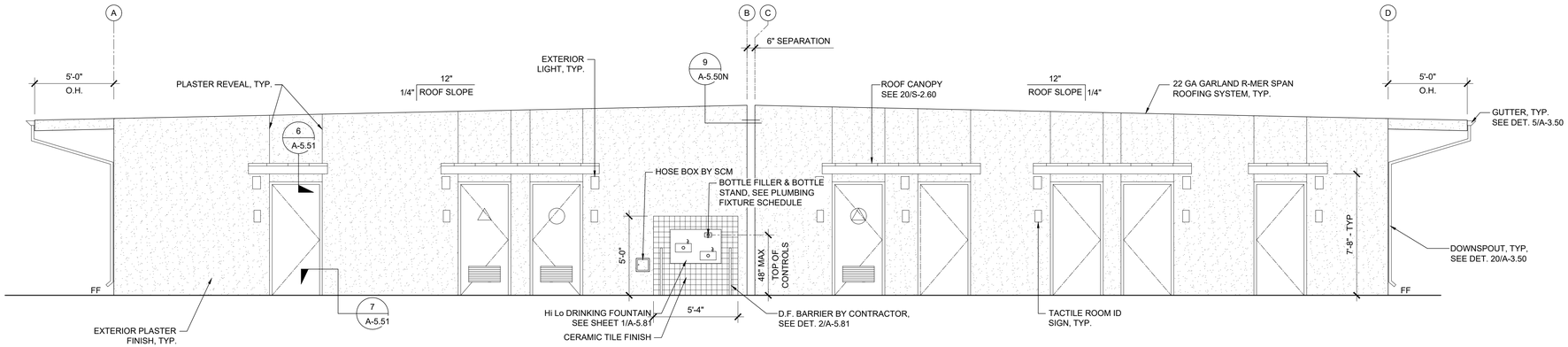
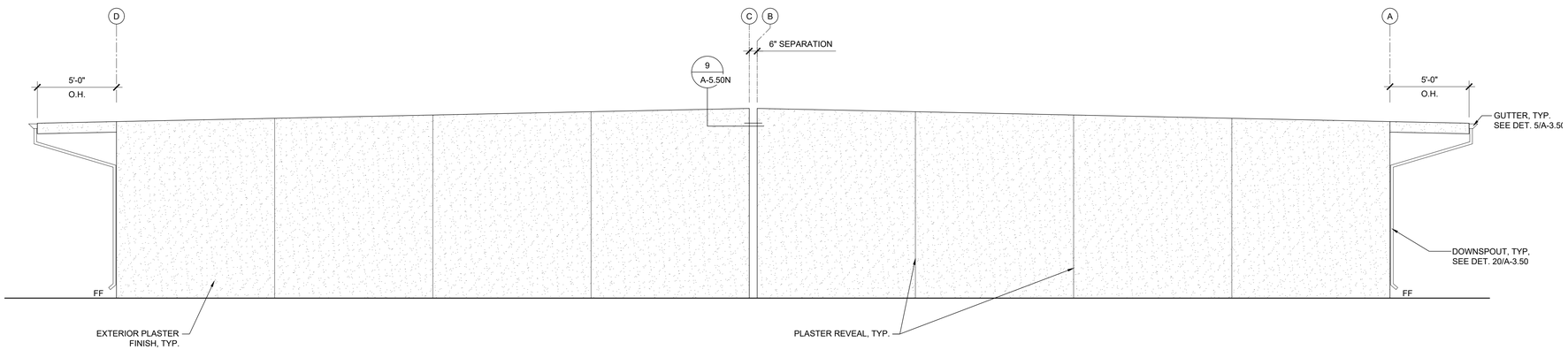
SHEET NUMBER

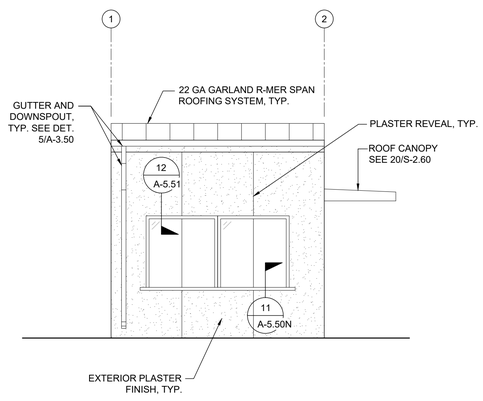
A-3.01N



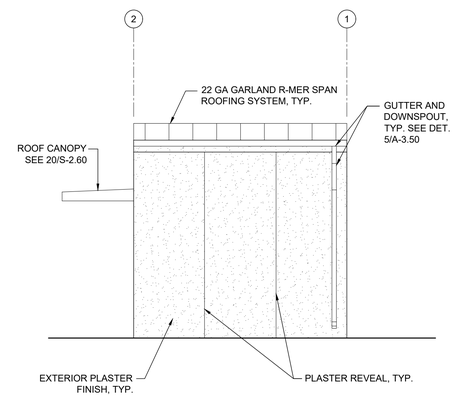

EAST ELEVATION SCALE: 1/4" = 1' - 0" 1




WEST ELEVATION SCALE: 1/4" = 1' - 0" 2




SOUTH ELEVATION SCALE: 1/4" = 1' - 0" 4




NORTH ELEVATION SCALE: 1/4" = 1' - 0" 3

SEE PC DRAWING A-4.01 FOR NOTES, LEGENDS AND OTHER INFORMATION NOT SHOWN

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EXTERIOR ELEVATIONS

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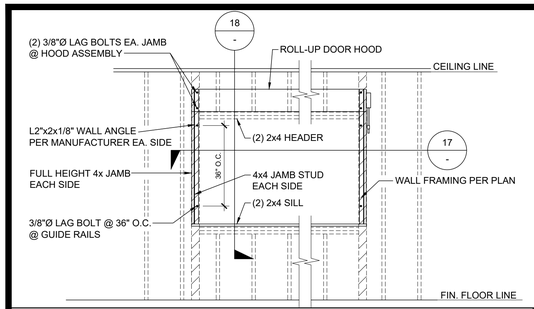
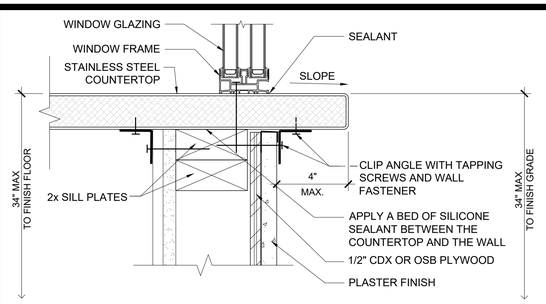
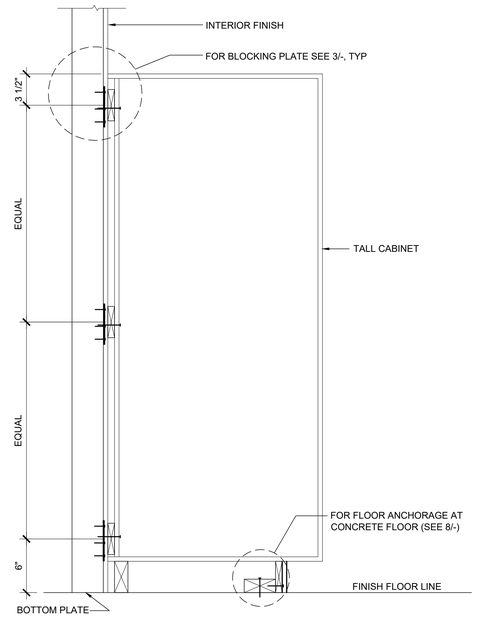


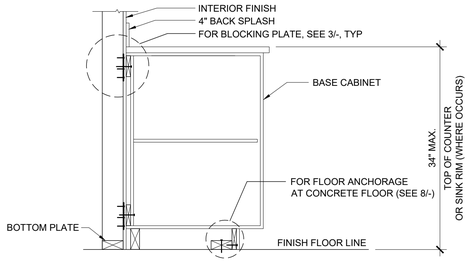

ROLL-UP COUNTER DOOR ATTACHMENT SCALE: 3/8" = 1' - 0" 16



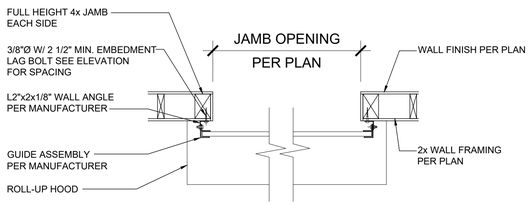

SERVICE WINDOW SILL SCALE : 3" = 1'-0" 11



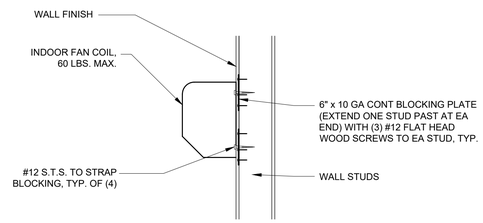

TALL CABINET WALL ANCHORAGE SCALE : 1 1/2" = 1'-0" 7




BASE CABINET WALL ANCHORAGE SCALE : 1" = 1'-0" 1

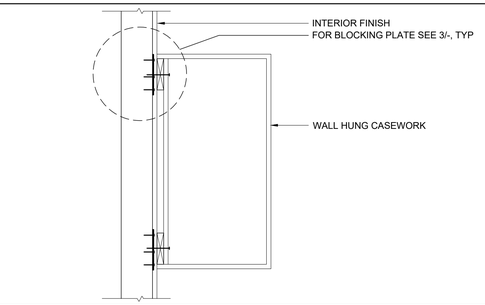



ROLL-UP DOOR ATTACHMENT SCALE: 3/4" = 1' - 0" 17

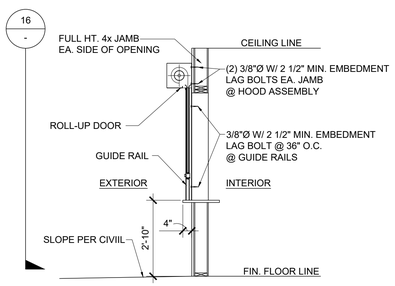



INDOOR FAN COIL
SIDE VIEW

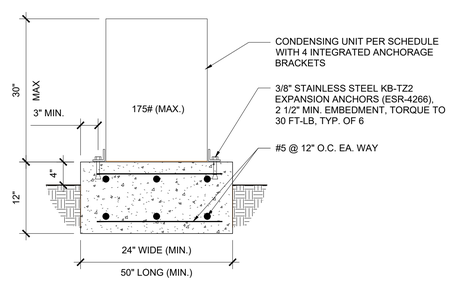
FAN COIL UNIT ATTACHMENT SCALE 1" = 1'-0" 12



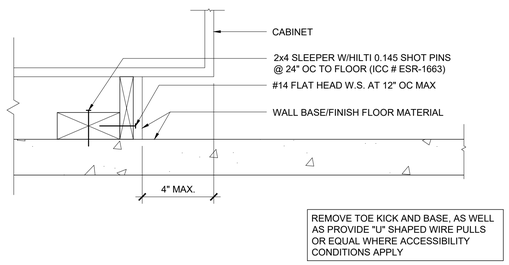

WALL HUNG ANCHORAGE CABINET SCALE : 1 1/2" = 1'-0" 2



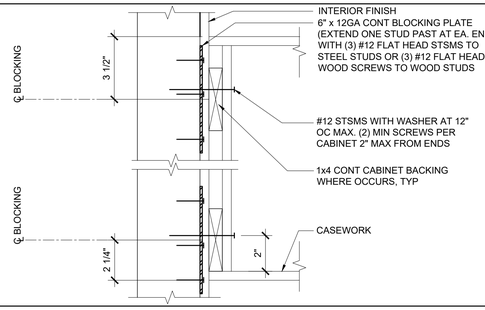

ROLL-UP COUNTER DOOR SCALE: 3/8" = 1' - 0" 18




PAD MOUNTED CONDENSING UNIT SCALE: 1" = 1'-0" 13



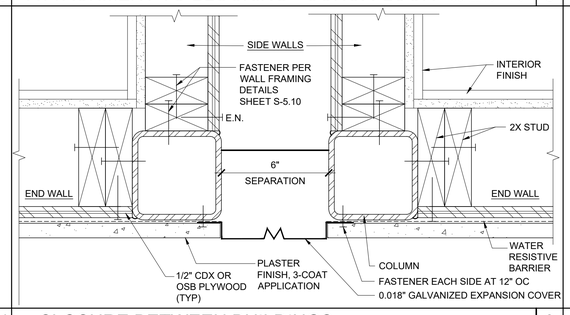

ATTACHMENT TO BLOCKING - CONC. FLOOR SCALE : 3" = 1'-0" 8



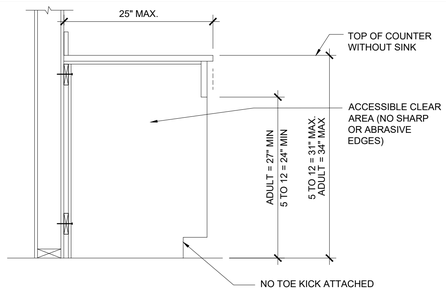

ATTACHMENT TO BLOCKING PLATE SCALE : 3" = 1'-0" 3

19

14



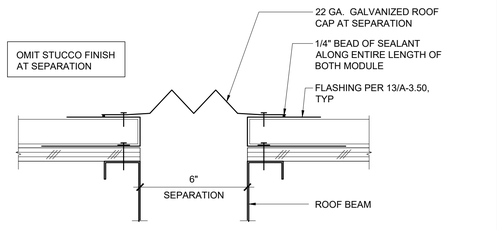

CLOSURE BETWEEN BUILDINGS SCALE : 3"=1'-0" 9




ACCESSIBLE COUNTER SCALE : 1" = 1'-0" 4

20

15




ROOF CAP AT SEPARATION SCALE : 3"=1'-0" 10

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

ARCHITECTURAL
DETAILS

REVISIONS

1
2
3
4
5

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

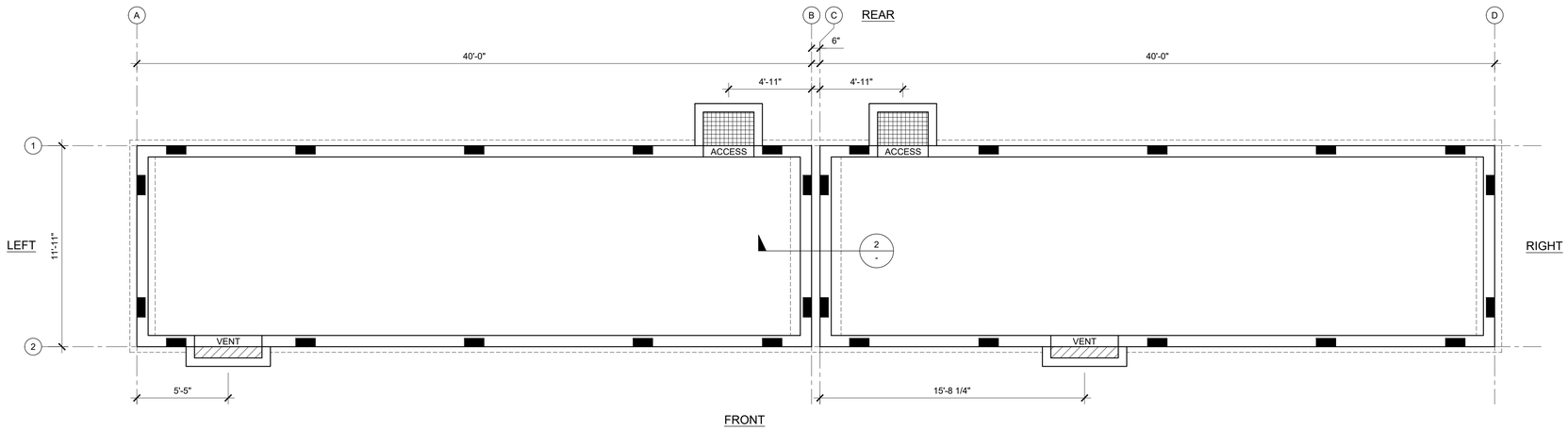
REGISTERED PROFESSIONAL ENGINEER
JOHN W STAAL
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

A-5.50N

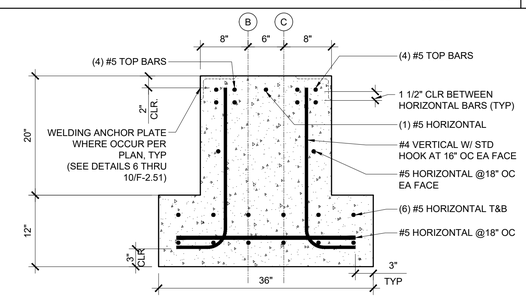



SEE PC DRAWING F-2.11 FOR NOTES, SCHEDULES, DETAIL CALLOUTS, LEGENDS AND OTHER INFORMATION NOT SHOWN

N

FOUNDATION KEY PLAN

SCALE: 1/4" = 1' - 0" | 1




FOOTING @ SEPARATION

SCALE: 1" = 1' - 0" | 2

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LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

# CONCRETE FOUNDATION PLAN

REVISIONS

1
2
3
4
5

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

F-2.11N

# PLUMBING FIXTURE SCHEDULE

| SYMBOL | FIXTURE | COLD WATER | HOT WATER | WASTE | VENT | FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL) |
|---|---|---|---|---|---|---|
| FD 1 | FLOOR DRAIN | - | - | 2" | 1 1/2" | JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS |
| TP 1 | TRAP PRIMER | 1/2" | - | - | - | PR-500 WITH 8"X12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U WATER DISTRIBUTION SYSTEM |
| WHA 1 | WATER HAMMER ARRESTOR | 1" | - | - | - | PPP SC-1000 |
| FS 1 | FLOOR SINK | - | - | 3" | 2" | 12" SQUARE FLOOR SINK, SEE PLUMBING SPECIFICATIONS |
| WH 1 | INSTANT WATER HEATER | 3/4" | 3/4" | - | - | EEMAX EMT6 INSTANT WATER HEATER, 120v, 6 GAL TANK, 1.4 kw, 20A, 24.9 lbs |
| WH 2 | INSTANT WATER HEATER | 1/2" | 1/2" | - | - | EEMAX EMT1 INSTANT WATER HEATER, 120v, 1.5 GAL TANK, 1.4 kw, 20A, 11.7 lbs |
| SK 1 | HAND WASH SINK | 1/2" | 1/2" | 1 1/4" | 1 1/2" | JUST SL SERIES 18GA STAINLESS STEEL SINGLE BOWL SINK. CHICAGO 2300-8E34ABCP MANUAL SINK FAUCET |
| DF 1 | DRINKING FOUNTAIN | 1/2" | - | 1 1/4" | 1 1/2" | HAWS 1117LN-1920 ADA LOW PROFILE VANDAL RESISTANT DUAL FOUNTAIN WITH BOTTLE FILLER. STAINLESS STEEL w/HAWS 6700 MOUNTING PLATE, (1)HAWS #1920 BOTTLE FILLER w/BP32 BACK PLATE (1) HAWS BTL1107 BOTTLE STAND |
| MS 1 | MOP SINK | 1/2" | 1/2" | 2" | 1 1/2" | CECO: 871 28"x28" CORNER SERVICE SINK W/ CHIGAGO FAUCET 956-R, 2" K-9142 STRAINER. BOBRICK B-239 S.S. SHELF W/HOOKS & MOP HOLDER |
| REF 1 | REFRIGERATOR | 1/2" | - | - | - | REFRIGERATIOR, BY OTHERS. TBD |
| WC 1 | [ ADULT ] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | KOHLER KINGSTON K-4325 VITREOUS CHINA ELONGATED RIM, SIPHON JET, OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| LAV 1 | LAVATORY (ACCESSIBLE) | 1/2" | - | 2" | 1 1/2" | CECO: 550-551 WALL HUNG LAVATORY WITH HANGER; CHICAGO 3400-ABCP METERING FAUCET (0.5 GPM) |
| HB 1 | HOSE BIBB | 1/2" | - | - | - | HOSE BIBB w/LOCKING COVER +14" AFF |
| UR 1 | URINAL | 3/4" | - | 2" | 1 1/2" | SLOAN URINAL WEUS-100.1001 FLUSHOMETER COMBO: SU-1009 URINAL AND ROYAL 186 FLUSHOMETER |

NOTE:
1. PROVIDE 3/4" CONDENSATE LINE AND 1/2" DRINK MACHINE DRAIN LINE TO DRAIN SEPARATELY AND INDIRECTLY INTO FLOOR SINK.

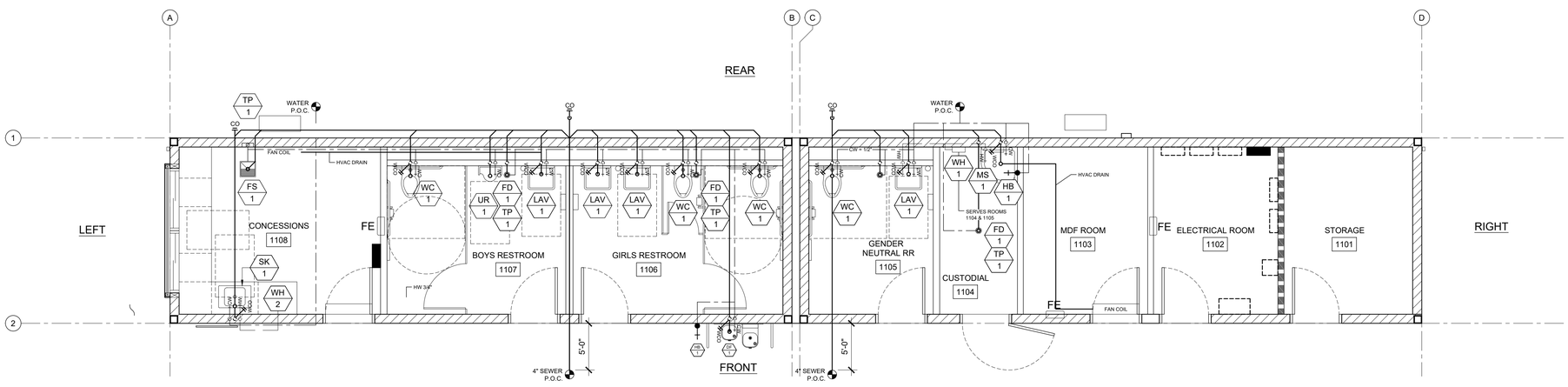
# NOTES:

1. HOT WATER PIPING SHALL BE INSULATED WITH MINIMUM 1" WRAP.
2. AT MECHANICAL EQUIPMENT PROVIDE 3/4" TYPE L COPPER CONDENSATE PIPING TO THE NEAREST SINK TRAP.

# # P.O.C. KEYNOTES

A. 2" WATER P.O.C., SEE CIVIL DRAWINGS.

B. 4" SEWER P.O.C., SEE CIVIL DRAWINGS.




N

FLOOR PLAN

SCALE: 1/4" = 1' - 0"

1

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PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

PLUMBING PLAN AND SCHEDULE

REVISIONS

1
2
3
4
5

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARR
STRUCTURAL
STATE OF CALIFORNIA

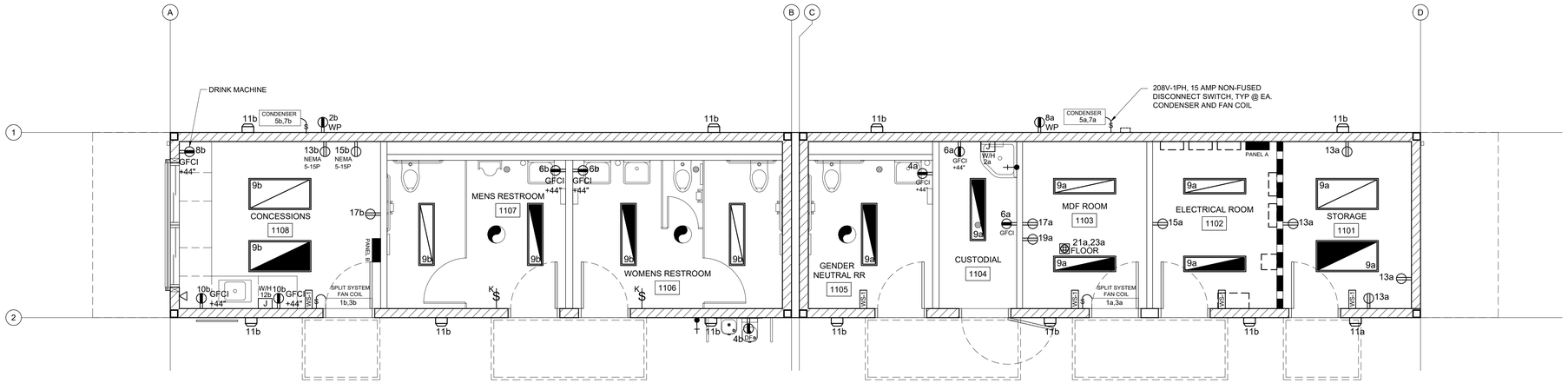
SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |

SHEET NUMBER

P-1.02N

SEE PC DRAWING E-1.02 FOR NOTES, LEGENDS AND OTHER INFORMATION NOT SHOWN




| PANEL: A | PHASE: | | | VOLTS: | | | BUSS: | | | MAIN: | | | | | | LOCATION: | | | FEED: | | | | MOUNTING: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SERIAL NO: | THREE | | | 120/208 | | | 150 AMP | | | | | | | | | INTERIOR | | | 1 1/2" BOTTOM | | | | SURFACE |
| OBJECT DESCRIPTION | WATT PER | NO. OF | LCL | WATTS A | B | C | BRK | POLE | WIRE SIZE | CKT NO | LEGS A | B | C | CKT NO | WIRE SIZE | POLE | BRK | WATTS A | B | C | LCL | NO OF | WATT PER | OBJECT DESCRIPTION |
| SPLIT SYSTEM | 115 | 1 | x | 115 | | | 15 | 2 | #8 | 1 | X | | | 2 | #12 | 1 | 20 | 1400 | | | | 1 | 1400 | WH-INSTA HOT |
| SPLIT SYSTEM | 115 | / | x | | 115 | | / | / | #8 | 3 | | X | | 4 | #12 | 1 | 20 | | 180 | | | 1 | 180 | WPGFI |
| CONDENSER | 1035 | 1 | x | | | 1035 | 15 | 2 | #6 | 5 | | | X | 6 | #12 | 1 | 20 | | | 360 | | 2 | 180 | RECEPT-GFI |
| CONDENSER | 1035 | / | x | 1035 | | | / | / | #6 | 7 | X | | | 8 | #12 | 1 | 20 | 180 | | | | 1 | 180 | RECEPT-WPGFI |
| LIGHTING | 60 | 8 | x | | 480 | | 20 | 1 | #12 | 9 | | X | | 10 | | | | | 0 | | | | | |
| LIGHTING | 30 | 5 | x | | | 150 | 20 | 1 | #12 | 11 | | | X | 12 | | | | | | 0 | | | | |
| RECEPTS | 180 | 4 | | 720 | | | 20 | 1 | #12 | 13 | X | | | 14 | | | | 0 | | | | | | |
| RECEPT | 180 | 1 | | | 180 | | 20 | 1 | #12 | 15 | | X | | 16 | | | | | 0 | | | | | |
| RECEPT | 180 | 1 | | | | 180 | 20 | 1 | #12 | 17 | | | X | 18 | | | | | | 0 | | | | |
| RECEPT | 180 | 1 | | 180 | | | 20 | 1 | #12 | 19 | X | | | 20 | | | | 0 | | | | | | |
| | | | | | 0 | | | | | 21 | | X | | 22 | | | | | 0 | | | | | |
| | | | | | | 0 | | | | 23 | | | X | 24 | #12 | 1 | 180 | | | 180 | | 1 | 180 | FIREALARM LOCKOU |
| | LEG TOTALS | | | 2050 | 775 | 1365 | | | | | | | | | | | | 1580 | 180 | 540 | LEG TOTALS | | | |
| LCL=732.5+6490=7222.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL WATTS=7222.5 | | | | | | | | | | LEG BALANCE = 58.3% | | | | | | | | | | TOTAL AMPS: 20.07 | | | |

| PANEL: B | PHASE: | | | VOLTS: | | | BUSS: | | | MAIN: | | | | | | LOCATION: | | | FEED: | | | | MOUNTING: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SERIAL NO: | THREE | | | 120/208 | | | 125 AMP | | | | | | | | | INTERIOR | | | 1 1/2" BOTTOM | | | | SURFACE |
| OBJECT DESCRIPTION | WATT PER | NO. OF | LCL | WATTS A | B | C | BRK | POLE | WIRE SIZE | CKT NO | LEGS A | B | C | CKT NO | WIRE SIZE | POLE | BRK | WATTS A | B | C | LCL | NO OF | WATT PER | OBJECT DESCRIPTION |
| SPLIT SYSTEM | 115 | 1 | x | 115 | | | 15 | 2 | #8 | 1 | X | | | 2 | #12 | 1 | 20 | 180 | | | | 1 | 180 | WPGFI |
| SPLIT SYSTEM | 115 | / | x | | 115 | | / | / | #8 | 3 | | X | | 4 | #12 | 1 | 20 | | 180 | | | 1 | 180 | RECEPT-DF |
| CONDENSER | 1035 | 1 | x | | | 1035 | 15 | 2 | #8 | 5 | | | X | 6 | #12 | 1 | 20 | | | 360 | | 2 | 180 | RECEPT-GFI |
| CONDENSER | 1035 | / | x | 1035 | | | / | / | #8 | 7 | X | | | 8 | #12 | 1 | 20 | 180 | | | | 1 | 180 | RECEPT-GFI |
| LIGHTING | 60 | 6 | x | | 360 | | 20 | 1 | #12 | 9 | | X | | 10 | #12 | 1 | 20 | | 360 | | | 2 | 180 | RECEPT-GFI |
| LIGHTING | 30 | 3 | x | | | 90 | 20 | 1 | #12 | 11 | | | X | 12 | #12 | 1 | 20 | | | 1400 | | 1 | 1400 | WH-INSTA HOT |
| | 180 | 1 | | 180 | | | 20 | 1 | #12 | 13 | X | | | 14 | | | | 0 | | | | | | |
| | 180 | 1 | | | 180 | | 20 | 1 | #12 | 15 | | X | | 16 | | | | | 0 | | | | | |
| | 180 | 1 | | | | 180 | 20 | 1 | #12 | 17 | | | X | 18 | | | | | | 0 | | | | |
| | | | | 0 | | | | | | 19 | X | | | 20 | | | | 0 | | | | | | |
| | | | | | 0 | | | | | 21 | | X | | 22 | | | | | 0 | | | | | |
| | | | | | | 0 | | | | 23 | | | X | 24 | | | | | | 0 | | | | |
| | LEG TOTALS | | | 1330 | 655 | 1305 | | | | | | | | | | | | 360 | 540 | 1760 | LEG TOTALS | | | |
| LCL=687.5+5950=6637.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL WATTS=6637.5 | | | | | | | | | | LEG BALANCE = 43.9% | | | | | | | | | | TOTAL AMPS: 18.45 | | | |

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PROJECT NAME:

LONG BEACH USD
POLYTECHNIC HS
CONCESSION & RESTROOMS
(2) 12'X40' BLDG

SHEET TITLE:

ELECTRICAL PLAN
AND SCHEDULE

REVISIONS

1
2
3
4
5

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STAMP
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES

| | |
|---|---|
| PROJECT NO: | 11646 |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-20-2025 |
| SHEET NUMBER | |

E-1.02N

N

ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0"

# MODULAR TOILET BUILDINGS - 12' X 40'
# (MODELS 'A', 'B', 'C' AND 'D')

## PC 04-122000

BY

## SILVER CREEK MODULAR, INC.

2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE : (951) 943-5393 FAX : (951) 943-2211

## GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL.
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2022 CBC 705.3.
3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING.
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS.
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES.
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2022 CBC. THE USE OF UNPROTECTED OPENINGS SHALL BE VERIFIED IN THE PROJECT SPECIFIC APPLICATIONS.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1405.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL".
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A.
13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 5.507.4 FOR THE SITE SPECIFIC LOCATION.
14. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO THE SAME PC CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR-CEILING SHALL MEET THE MINIMUM REQUIREMENTS OF THE STC RATING OF 40 PER CALGREEN CODE, SECTION 5.507.4.3.
15. NOT USED
16. THE BUILDING PAD ELEVATION SHALL ABOVE THE DESIGN FLOOD ELEVATION.
17. WHEN THE SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A SEALED LETTER FROM A GEOTECHNICAL ENGINEER SHALL BE PROVIDED TO VALIDATE THE APPLICABILITY OF THE ALLOWABLE SOIL BEARING PRESSURES INDICATED ON THE PC DRAWINGS.
EXCEPTION: THIS LETTER IS NOT REQUIRED FOR PROJECTS LOCATED IN FLOOD ZONE D WHEN A GEOTECHNICAL REPORT IS AVAILABLE FOR IMPROVEMENTS ON THE SAME PROJECT SITE, AND IN ACCORDANCE WITH THE CURRENT CBC, WHICH CONFIRMS THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE OR CONFIRMS THAT THE FLOOD HAZARD DOES NOT RESULT IN A REDUCTION OF SOIL CAPACITY VALUES.

## APPLICABLE STANDARDS

| | | |
|---|---|---|
| NFPA 13 | AUTOMATIC SPRINKLER SYSTEMS (CA. AMENDED) | 2022 EDITION |
| NFPA 72 | NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") | 2022 EDITION |
| ACI 318 | BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE | 2019 EDITION |
| ASME A17.1 | (W/A17.1A CSA B44A-2019 ADDENDA) SAFETY CODE FOR ELEVATORS & ESCALATORS. | 2007 EDITION |

## APPLICABLE CODES

LIST OF 2022 CALIFORNIA CODE OF REGULATIONS

- 2022 BUILDING ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

## BUILDING DATA

| | |
|---|---|
| NUMBER OF STORIES: | 1 - STORY |
| OCCUPANCY: | E or B |
| TYPE OF CONSTRUCTION: | V-B |
| FLOOR LIVE LOAD: | 50 PSF |
| ROOF LIVE LOAD: | 20 PSF |
| FLOOR DEAD LOAD: | ☐ WOOD FLOOR - 11 PSF ☑ CONCRETE FLOOR - 35 PSF |
| ROOF DEAD LOAD: | 18 PSF (INCLUDING SPRINKLER LOAD AND 0 PSF SOLAR LOAD) |
| SOLAR ALLOWANCE: | 0.6 PSF OVER ENTIRE ROOF AREA |
| RAMP LIVE LOAD: | 100 PSF |
| BUILDING AREA: ALLOWABLE AREA: 9,000 S.F. (ALL w/o OVERHANGS) | 480 SF (NO OVERHANG) 570 SF (WITH OVERHANG) |
| FOUNDATION: | ☐ WOOD ☑ CONCRETE |
| CEC CLIMATE ZONE: | 1-16 |

### ALLOWABLE SOIL PRESSURE

| | |
|---|---|
| WOOD FOOTING (DL & DL+LL & DL+LL+SEISMIC) | 1,000 psf |
| CONCRETE FOOTING (DL & DL+LL & DL+LL+SEISMIC) | 1,500 psf |

### ROOF SNOW LOAD

| | |
|---|---|
| GROUND SNOW LOAD, $P_g$ FROM COUNTY | 0 |
| ROOF SNOW LOAD: ☑ FLAT $P_f$ OR ☐ LOW-SLOW, $P_m$ OR ☐ SLOPED, $P_s$ | |
| SNOW EXPOSURE FACTOR $C_s$ | - |
| SNOW IMPORTANCE FACTOR $I_s$ | 1.0 |
| THERMAL FACTOR $C_t$ | - |

### FLOOD DESIGN

FLOOD HAZARD AREA YES ☐ NO ☑

### WIND DESIGN (SEE GENERAL NOTE #15 + 16)

| | |
|---|---|
| BASIC WIND SPEED (3 SECOND GUST) $V_{ult}$ | 105 |
| RISK CATEGORY | II |
| WIND EXPOSURE CATEGORY | C |
| TOPOGRAPHIC FACTOR $K_{zt}$ | 1 |

### SEISMIC DESIGN

| | |
|---|---|
| LATERAL FORCE-RESISTING SYSTEM | OMF |
| ANALYSIS PROCEDURE | EQIV. LATERAL FORCE |
| SEISMIC DESIGN CATAGORY (SDC) | E |
| SEISMIC IMPORTANCE FACTOR $I_e$ | 1.0 |
| SEISMIC RESPONSE COEFFICIENT $C_s$ | 0.525 |
| RESPONSE MODIFICATION COEFFICIENT $R$ | 3.5 |
| SITE CLASS | D ++ |
| MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD $S_S$ | 2.3 |
| SHORT PERIOD SITE COEFFICIENT $F_a$ | 1.2 |
| DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD $S_{DS}$ | 1.84 |
| MAPPED SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD $S_1$ | 1.064 ++ |
| LONG PERIOD SITE COEFFICIENT, $F_v$ | 1.7 |
| DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD $S_{D1}$ | 1.2 |
| HORIZONTAL OR VERTICAL IRREGULARITY TYPES | NONE |
| REDUNDANCY FACTOR Rho | 1.3 |
| FUNDAMENTAL PERIOD T | 0.186s |

FOR SITE SPECIFIC PROJECT

- ☐ SOLAR PV IS REQUIRED AND REFERENCE SHEET A-0.7
- ☐ GEOTECH REPORT IS REQUIRED

### SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

SELECT ONE

☑ DESIGN BASED ON SITE CLASS $D_{default}$

NO GEOTECHNICAL INVESTIGATION REQUIRED

Ss = 1.648 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16

GEOTECHNICAL INVESTIGATION PROVIDED

SITE CLASS: ☐ C ☐ D ☐ E

Ss = ________ Fa = ________ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

☐ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16

SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, $S_{DS}$, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION

CGS APPROVAL REQUIRED

NOT ELIGIBLE FOR OTC REVIEW

SITE CLASS: ☐ C ☐ D ☐ E

$S_{DS} = \frac{2}{3}$ Fa Ss = 1.32 ≤ 1.84

$C_S$ = .525 USED IN DESIGN

SEISMIC DESIGN CATEGORY: ☑ D ☐ E

++ 11.4.8 SITE SPECIFIC GROUND MOTION PROCEDURES
A SITE RESPONSE ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 21.1 FOR STRUCTURES ON SITE CLASS F SITES, UNLESS EXEMPTED IN ACCORDANCE WITH SECTION 20.3.1 A GROUND MOTION HAZARD ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 21.2 FOR THE FOLLOWING:

1. STRUCTURES ON SITE CLASS D SITE WITH $S_1$ GREATER THAN OR EQUAL TO 0.2

EXCEPTION: A GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED WHERE THE VALUE OF THE PARAMETER $S_{M1}$ DETERMINED BY Eq. (11.4-2) IS INCREASED BY 50% FOR ALL APPLICATION OF $S_{M1}$

IN THIS STANDARD. THE RESULTING VALUE OF THE PARAMETER $S_{D1}$ DETERMINED BY Eq (11.4-4) SHALL BE USED FOR ALL APPLICATIONS OF $S_{D1}$ IN THIS STANDARD

NOTE:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

## SHEET INDEX (114 SHEETS)


| SHT NO. | | ARCHITECTURAL |
|---|---|---|
| A-0 | | COVER SHEET |
| A-0A | | T & I FORMS |
| A-0.1 | | SYMBOLS LEGEND, ABBREVIATION, AND ADA SIGNAGE |
| A-0.2 | | SCHEDULES |
| A-0.6A | | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.6B | | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.6C | | CERTIFICATE OF COMPLIANCE FORMS |
| A-0.7 | | ENERGY MANDATORY MEASURES & CALGREEN SPEC'S |
| A-1.01 | ☐ | FLOOR PLAN 12' x 40' - MODEL A-1 12' x 40' - MODEL A-2 ADULT HEIGHT |
| A-1.01A | ☐ | FLOOR PLAN 12' x 40' - MODEL A-1 ALTERNATE HEIGHTS |
| A-1.01B | ☐ | FLOOR PLAN 12' x 40' - MODEL A-2 ALTERNATE HEIGHTS |
| A-1.02 | ☑ | FLOOR PLAN 12' x 40' - MODEL B-1 12' x 40' - MODEL B-2 ADULT HEIGHT |
| A-1.02A | ☐ | FLOOR PLAN 12' x 40' - MODEL B-1 ALTERNATE HEIGHTS |
| A-1.02B | ☐ | FLOOR PLAN 12' x 40' - MODEL B-2 ALTERNATE HEIGHTS |
| A-1.03 | ☐ | FLOOR PLAN 12' x 40' - MODEL C-1 12' x 40' - MODEL C-2 ADULT HEIGHT |
| A-1.03A | ☐ | FLOOR PLAN 12' x 40' - MODEL C-1 ALTERNATE HEIGHTS |
| A-1.03B | ☐ | FLOOR PLAN 12' x 40' - MODEL C-2 ALTERNATE HEIGHTS |
| A-1.04 | ☐ | FLOOR PLAN 12' x 40' - MODEL D-1 ADULT HEIGHT |
| A-1.04A | ☐ | FLOOR PLAN 12' x 40' - MODEL D-1 ALTERNATE HEIGHTS |
| A-2.01 | ☐ | REFLECTED CEILING PLAN - "MODEL A-1" OR "MODEL A-2" |
| A-2.02 | ☑ | REFLECTED CEILING PLAN - "MODEL B-1" OR "MODEL B-2" |
| A-2.03 | ☐ | REFLECTED CEILING PLAN - "MODEL C-1" OR "MODEL C-2" |
| A-2.04 | ☐ | REFLECTED CEILING PLAN - "MODEL D-1" |
| A-2.20 | ☑ | CEILING DETAILS - T-GRID |
| A-2.21 | ☑ | CEILING DETAILS - HARD LID |
| A-3.01 | ☑ | ROOF PLAN - METAL DECK- MONO OR DUAL SLOPE |
| A-3.31 | ☐ | ROOF PLAN - TPO - MONO OR DUAL SLOPE - PARAPET |
| A-3.41 | ☐ | ROOF PLAN - TPO ROOF - MONO OR DUAL SLOPE |
| A-3.50 | ☑ | ROOF DETAILS - METAL DECK |
| A-3.80 | ☐ | ROOF DETAILS - PARAPET DETAILS |
| A-3.90 | ☐ | ROOF DETAILS - TPO ROOF |
| A-4.01 | ☐ | EXTERIOR ELEVATIONS - "MODEL A-1" - MONO OR DUAL SLOPE |
| A-4.11 | ☐ | EXTERIOR ELEVATIONS - "MODEL A-1" - MONO OR DUAL SLOPE / PARAPET |
| A-4.02 | ☐ | EXTERIOR ELEVATIONS - "MODEL A-2" - MONO OR DUAL SLOPE |
| A-4.12 | ☐ | EXTERIOR ELEVATIONS - "MODEL A-2" - MONO OR DUAL SLOPE / PARAPET |
| A-4.03 | ☐ | EXTERIOR ELEVATIONS - "MODEL B-1" - MONO OR DUAL SLOPE |
| A-4.13 | ☐ | EXTERIOR ELEVATIONS - "MODEL B-1" - MONO OR DUAL SLOPE / PARAPET |
| A-4.04 | ☑ | EXTERIOR ELEVATIONS - "MODEL B-2" - MONO OR DUAL SLOPE |
| A-4.14 | ☐ | EXTERIOR ELEVATIONS - "MODEL B-2" - MONO OR DUAL SLOPE / PARAPET |
| A-4.05 | ☐ | EXTERIOR ELEVATIONS - "MODEL C-1" - MONO OR DUAL SLOPE |
| A-4.15 | ☐ | EXTERIOR ELEVATIONS - "MODEL C-1" - MONO OR DUAL SLOPE / PARAPET |
| A-4.06 | ☐ | EXTERIOR ELEVATIONS - "MODEL C-2" - MONO OR DUAL SLOPE |
| A-4.16 | ☐ | EXTERIOR ELEVATIONS - "MODEL C-2" - MONO OR DUAL SLOPE / PARAPET |
| A-4.07 | ☐ | EXTERIOR ELEVATIONS - "MODEL D-1" - MONO OR DUAL SLOPE |
| A-4.17 | ☐ | EXTERIOR ELEVATIONS - "MODEL D-1" - MONO OR DUAL SLOPE / PARAPET |
| A-5.01 | ☑ | CROSS SECTION - MONO SLOPE |
| A-5.02 | ☐ | CROSS SECTION - DUAL SLOPE |
| A-5.05 | | CROSS SECTION |
| A-5.50 | ☐ | ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING |
| A-5.51 | ☑ | ARCHITECTURAL DETAILS - WOOD STUD - PLASTER |
| A-5.52 | ☐ | ARCHITECTURAL DETAILS - WOOD STUD - WOOD SIDING - 1 HOUR RATED |
| A-5.53 | ☑ | ARCHITECTURAL DETAILS - WOOD STUD - PLASTER - 1 HOUR RATED |
| A-5.60 | ☐ | ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING |
| A-5.61 | ☐ | ARCHITECTURAL DETAILS - STEEL STUD - PLASTER |
| A-5.62 | ☐ | ARCHITECTURAL DETAILS - STEEL STUD - WOOD SIDING - 1 HOUR RATED |
| A-5.63 | ☐ | ARCHITECTURAL DETAILS - STEEL STUD - PLASTER - 1 HOUR RATED |
| A-5.64 | ☐ | ARCHITECTURAL DETAILS - 1 HOUR RATED OPTIONS |
| A-5.70 | | ARCHITECTURAL DETAILS - FLOOR |
| A-5.81 | ☑ | ARCHITECTURAL DETAILS - MISCELLANEOUS/OPTIONS |
| A-6.01 | ☑ | INTERIOR ELEVATIONS - WALL MOUNTED - ADULT |
| A-6.02 | ☐ | INTERIOR ELEVATIONS - FLOOR MOUNTED - ADULT |
| A-6.03 | ☐ | INTERIOR ELEVATIONS - WALL MOUNTED AGE 5-8 & 9-12 |
| A-6.04 | ☐ | INTERIOR ELEVATIONS - FLOOR MOUNTED AGE 5-8 & 9-12 |
| A-6.05 | ☐ | INTERIOR ELEVATIONS - FLOOR MOUNTED AGE 3-4 |

| SHT NO. | | FOUNDATION |
|---|---|---|
| F-0.01 | ☐ | WOOD FOUNDATION PLAN - 12' x 40' (50 PSF) |
| F-0.50 | ☐ | FOUNDATION DETAILS - WOOD |
| F-1.01 | ☐ | CONCRETE FOUNDATION PLAN - ABOVE GRADE - WOOD FLOOR |
| F-1.11 | ☐ | CONCRETE FOUNDATION PLAN - ABOVE GRADE - CONCRETE FLOOR |
| F-1.50 | ☐ | CONCRETE FOUNDATION DETAILS - ABOVE GRADE |
| F-2.01 | ☐ | CONCRETE FOUNDATION PLAN - BELOW GRADE - WOOD FLOOR |
| F-2.11 | ☑ | CONCRETE FOUNDATION PLAN - BELOW GRADE - CONCRETE FLOOR |
| F-2.50 | ☑ | CONCRETE FOUNDATION DETAILS - BELOW GRADE |
| F-2.51 | ☑ | FOUNDATION DETAILS - CONCRETE |

| SHT NO. | | STRUCTURAL |
|---|---|---|
| S-0.1 | | STRUCTURAL SPECIFICATIONS |
| S-1.01 | ☐ | FLOOR FRAMING PLAN - WOOD FLOOR |
| S-1.11 | ☑ | FLOOR FRAMING PLAN - CONCRETE FLOOR |
| S-1.50 | ☐ | FLOOR FRAMING DETAILS - WOOD FLOOR |
| S-1.60 | ☑ | FLOOR FRAMING DETAILS - CONCRETE FLOOR |
| S-2.01 | ☑ | ROOF FRAMING PLAN - MONO SLOPE |
| S-2.11 | ☐ | ROOF FRAMING PLAN - DUAL SLOPE |
| S-2.21 | ☐ | ROOF FRAMING PLAN - DUAL / MONO SLOPE - PARAPET |
| S-2.50 | ☑ | ROOF FRAMING DETAILS - MONO SLOPE |
| S-2.51 | ☐ | ROOF FRAMING DETAILS - DUAL SLOPE |
| S-2.60 | ☑ | ROOF MISC. DETAILS |
| S-2.70 | ☐ | ROOF FRAMING DETAILS - PARAPET |
| S-3.01 | ☑ | BUILDING SECTION - MONO SLOPE ROOF |
| S-3.02 | ☐ | BUILDING SECTION - DUAL SLOPE ROOF |
| S-5.00 | ☑ | WALL FRAMING ELEVATIONS - WOOD STUDS |
| S-5.10 | ☑ | WALL FRAMING DETAILS - WOOD STUDS |
| S-5.11 | ☑ | WALL FRAMING DETAILS - WOOD STUDS |
| S-5.20 | ☐ | WALL FRAMING ELEVATIONS - STEEL STUDS |
| S-5.30 | ☐ | WALL FRAMING DETAILS - STEEL STUDS |
| S-5.31 | ☐ | WALL FRAMING DETAILS - STEEL STUDS |

| SHT NO. | | PLUMBING |
|---|---|---|
| P-1.01A | ☑ | PLUMBING PLAN AND ISOMETRICS - ADULT "MODEL A-1" OR "MODEL A-2" |
| P-1.01E | ☐ | PLUMBING PLAN AND ISOMETRICS - 3-4, 5-8, 9-12 "MODEL A-1" OR "MODEL A-2" |
| P-1.02A | ☐ | PLUMBING PLAN AND ISOMETRICS - ADULT "MODEL B-1" OR "MODEL B-2" |
| P-1.02E | ☐ | PLUMBING PLAN AND ISOMETRICS - 3-4, 5-8, 9-12 "MODEL B-1" OR "MODEL B-2" |
| P-1.03A | ☐ | PLUMBING PLAN AND ISOMETRICS - ADULT "MODEL C-1" OR "MODEL C-2" |
| P-1.03E | ☐ | PLUMBING PLAN AND ISOMETRICS - 3-4, 5-8, 9-12 "MODEL C-1" OR "MODEL C-2" |
| P-1.04A | ☐ | PLUMBING PLAN AND ISOMETRICS - ADULT "MODEL D-1" |
| P-1.04E | ☐ | PLUMBING PLAN AND ISOMETRICS - 3-4, 5-8, 9-12 "MODEL D-1" |
| P-2.01 | | PLUMBING DETAILS AND SCHEDULE |

| SHT NO. | | MECHANICAL |
|---|---|---|
| M-0.1 | | MECHANICAL NOTES, SCHEDULES, AND DETAILS |

| SHT NO. | | ELECTRICAL |
|---|---|---|
| E-1.01 | ☑ | ELECTRICAL PLAN AND SCHEDULE - "MODEL A-1" OR "MODEL A-2" |
| E-1.02 | ☐ | ELECTRICAL PLAN AND SCHEDULE - "MODEL B-1" OR "MODEL B-2" |
| E-1.03 | ☐ | ELECTRICAL PLAN AND SCHEDULE - "MODEL C-1" OR "MODEL C-2" |
| E-1.04 | ☐ | ELECTRICAL PLAN AND SCHEDULE - "MODEL D-1" |

| SHT NO. | | RAMP |
|---|---|---|
| R-1.01 | ☐ | STANDARD RAMP PLAN |
| R-1.02 | ☐ | OFFSET RAMP PLAN |
| R-1.03 | ☐ | RAMP LANDING |
| R-1.04 | ☐ | STANDARD LANDING WITH STEPS |
| R-1.05 | ☐ | SWITCHBACK RAMP PLAN |
| R-2.01 | ☐ | RAMP DETAILS |

| SHT NO. | | RELOCATABLE SHEETS |
|---|---|---|
| REL-101 | ☐ | BUILDING RELOCATION DETAILS |


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# COVER SHEET

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0

# DSA 103-22 LISTING OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS (SOILS)

NO SOILS REPORT REQ'D ☐ ✓

| | S1. GENERAL: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | a. Verify that:<br>• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.<br>• Foundation excavations are extended to proper depth and have reached proper material.<br>• Materials below footings are adequate to achieve the design bearing capacity. | See Notes | PI | Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report. |

| | S2. SOIL COMPACTION AND FILL: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill. | Continuous | LOR* | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| ☑ | b. Compaction testing. | Test | LOR* | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations. |

| | S3. DRIVEN DEEP FOUNDATIONS (PILES): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | a. Verify pile materials, sizes and lengths comply with the requirements. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | b. Determine capacities of test piles and conduct additional load tests as required. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | c. Inspect driving operations and maintain complete and accurate records for each pile. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | e. Steel piles. | Provide tests and inspections per STEEL section below. | | |
| ☐ | f. Concrete piles and concrete filled piles. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge. | * | * | * As defined on drawings or specifications. |

| | S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Note** |
| ☐ | a. Inspect drilling operations and maintain complete and accurate records for each pier. | Continuous | PI | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| ☐ | b. Verify pier locations, diameters, plumbness and lengths.Record concrete or grout volumes. | Continuous | PI | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations. |
| ☐ | c. Concrete piers. | Provide tests and inspections per CONCRETE section below. | | |
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |

| | S5. RETAINING WALLS: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | a. Placement, compaction and inspection of backfill. | Continuous | GE* | 1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above). |
| ☐ | b. Placement of soil reinforcement and/or drainage devices. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | c. Segmental retaining walls: inspect placement of units, dowels, connectors, etc. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. See DSA IR 18-2. |
| ☐ | d. Concrete retaining walls. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | e. Masonry retaining walls. | Provide tests and inspections per MASONRY section below. | | |

| | S6. OTHER SOILS: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | a. Soil Improvements | Test | GE* | Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance.<br>* By geotechnical engineer or his or her qualified representative. |
| ☐ | b. Inspection of Soil Improvements | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | c. | | | |

**DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022**

| Application Number: | School Name: | School District: |
|---|---|---|
| 04-122200 | SCM | SCM |
| DSA File Number: | Increment Number: | Date Created: |
| 33 Silver | | 2023-09-21 15:14:25 |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

# DSA 103-22 LISTING OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS (SOILS)

SOILS REPORT REQ'D ☐ ✓

| | S1. GENERAL: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☑ | a. Verify that:<br>• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.<br>• Foundation excavations are extended to proper depth and have reached proper material.<br>• Materials below footings are adequate to achieve the design bearing capacity. | Periodic | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.) |

| | S2. SOIL COMPACTION AND FILL: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | a. Perform classification and testing of fill materials. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| ☑ | b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.) |
| ☑ | c. Compaction testing. | Test | LOR* | * Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.) |

| | S3. DRIVEN DEEP FOUNDATIONS (PILES): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | a. Verify pile materials, sizes and lengths comply with the requirements. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | b. Determine capacities of test piles and conduct additional load tests as required. | Test | LOR* | * Under the supervision of the geotechnical engineer. |
| ☐ | c. Inspect driving operations and maintain complete and accurate records for each pile. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | e. Steel piles. | Provide tests and inspections per STEEL section below. | | |
| ☐ | f. Concrete piles and concrete filled piles. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge. | * | * | * As defined on drawings or specifications. |

| | S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Note** |
| ☐ | a. Inspect drilling operations and maintain complete and accurate records for each pier. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.) |
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Note** |
| ☐ | b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.) |
| ☐ | c. Confirm adequate end strata bearing capacity. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.) |
| ☐ | d. Concrete piers. | Provide tests and inspections per CONCRETE section below. | | |

| | S5. RETAINING WALLS: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | a. Placement, compaction and inspection of backfill | Continuous | GE* | 1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above). |
| ☐ | b. Placement of soil reinforcement and/or drainage devices | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | c. Segmental retaining walls: inspect placement of units, dowels, connectors, etc. | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. See DSA IR 18-2. |
| ☐ | d. Concrete retaining walls. | Provide tests and inspections per CONCRETE section below. | | |
| ☐ | e. Masonry retaining walls. | Provide tests and inspections per MASONRY section below. | | |

| | S6. OTHER SOILS: | | | |
|---|---|---|---|---|
| | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| ☐ | a. Soil Improvements | Test | GE* | Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance.<br>* By geotechnical engineer or his or her qualified representative. |
| ☐ | b. Inspection of Soil Improvements | Continuous | GE* | * By geotechnical engineer or his or her qualified representative. |
| ☐ | c. | | | |

**DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022**

| Application Number: | School Name: | School District: |
|---|---|---|
| 04-122203 | scm | scm |
| DSA File Number: | Increment Number: | Date Created: |
| 33 Silver | | 2023-09-22 13:08:16 |

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293

# DSA 103-22 LISTING OF STRUCTURAL TEST AND SPECIAL INSPECTIONS

| STOCKPILE | | CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING | | | RELOCATION OF RELOCATABLE BUILDING | |
|---|---|---|---|---|---|---|
| ☐ | ☐ | ☐ | ☐ | ☑ ✓ | ☐ | ☐ |
| WOOD FLR ONLY | CONCRETE FLOOR | PLYWD FLR / WOOD FOUNDATION | PLYWD FLR / CONCRETE FOUNDATION | CONC. FLR / CONCRETE FOUNDATION | WOOD FOUNDATION | CONCRETE FOUNDATION |

THIS LIST IS A ITEMIZED LIST OF REQUIRED TEST AND SPECIAL INSPECTIONS USED THROUGH OUT THIS PC, ARCHITECT SHALL SELECT THE COLUMN ASSOCIATED WITH THE PROJECT TYPE. THE EXAMPLE FORM DSA 103 SECTIONS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A FORM DSA 103-22 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO THE PROJECT SPECIFIC 103

X = REQUIRED TEST OR INSPECTION

| WOOD FLR ONLY | CONCRETE FLOOR | PLYWD FLR / WOOD FOUNDATION | PLYWD FLR / CONCRETE FOUNDATION | CONC. FLR / CONCRETE FOUNDATION | WOOD FOUNDATION | CONCRETE FOUNDATION | C1. CAST-IN-PLACE CONCRETE | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| | X | | X | X | | X | a. Verify use of required design mix. | Periodic | SI | Table 1705A.3 Item 5, 1910A.1. |
| | X | | X | X | | X | b. Identify, sample, and test reinforcing steel. | Test | LOR | 1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.) |
| | X | | X | X | | X | c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | Test | LOR | Table 1705A.3 Item 9, ACI 318-19 Sections 26.5 & 26.12. |
| | X | | X | X | | X | d. Test concrete (fc). | Test | LOR | 1905A.1.17; ACI 318-19 Section 26.12. |
| | X | | X | X | | X | e. Batch plant inspection: Periodic | See Notes | SI | Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.) |
| | | | | | | | f. Welding of reinforcing steel. | Provide special inspection per STEEL Category S/A4(d) & (e) and/or S/A5(g) & (h) below. | | |
| X | X | X | X | X | | | S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES | | | |
| | | | | | | | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| X | X | X | X | X | | | a. Verify identification of all materials and:<br>• Mill certificates indicate material properties that comply with requirements.<br>• Material sizes, types and grades comply with requirements. | Periodic | * | Table 1705A.2.1 Item 3a–3c, 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site. |
| X | X | X | X | X | | | b. Test unidentified materials | Test | LOR | 2202A.1. |
| X | X | X | X | X | | | c. Examine seam welds of HSS shapes | Periodic | SI | DSA IR 17-3. |
| X | X | X | X | X | | | d. Verify and document steel fabrication per DSA-approved construction documents. | Periodic | SI | Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4). |
| | | | | | | | e. Buckling restrained braces. | Test | LOR | Testing and special inspections in accordance with IR 22-4. |
| X | X | X | X | X | X | X | S/A3. WELDING: | | | |
| | | | | | | | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| X | X | X | X | X | X | X | a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | Periodic | SI | 1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| X | X | X | X | X | X | X | b. Verify weld filler material manufacturer's certificate of compliance. | Periodic | SI | DSA IR 17-3. |
| X | X | X | X | X | X | X | c. Verify WPS, welder qualifications and equipment. | Periodic | SI | DSA IR 17-3. |
| X | X | X | X | X | | | S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3): | | | |
| | | | | | | | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| X | X | X | X | X | | | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| X | X | X | X | X | | | b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3. |
| X | X | X | X | X | | | c. Inspect welding of stairs and railing systems. | Periodic | SI | 1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. |
| | | | | | | | d. Verification of reinforcing steel weldability other than ASTM A706. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| | | | | | | | e. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| | | X | X | X | X | X | S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3): | | | |
| | | | | | | | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| | | X | X | X | | X | a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | Continuous | SI | Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| | | X | X | X | | X | b. Inspect single-pass fillet welds ≤ 5/16". | Periodic | SI | Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3. |
| | | X | X | X | | | c. Inspect end-welded studs (ASTM A-108) installation (including bend test). | Periodic | SI | 2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3. |
| | | X | X | X | | | d. Inspect floor and roof deck welds. | Periodic | SI | 1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3. |
| | | X | X | X | | | e. Inspect welding of structural cold-formed steel. | Periodic | SI* | 1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA. |
| | | X | X | X | X | X | f. Inspect welding of stairs and railing systems. | Periodic | SI* | 1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA. |
| | | | | | | | g. Verification of reinforcing steel weldability. | Periodic | SI | 1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| | | | | | | | h. Inspect welding of reinforcing steel. | Continuous | SI | Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3. |
| X | X | X | X | X | | | S/A6. NONDESTRUCTIVE TESTING: | | | |
| | | | | | | | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| X | X | X | X | X | | | a. Ultrasonic | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| X | X | X | X | X | | | b. Magnetic Particle | Test | LOR | 1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| | | | | | | | c. | Test | LOR | |
| X | X | X | X | X | X | X | S/A9. ANCHOR BOLTS AND ANCHOR RODS: | | | |
| | | | | | | | **Test or Special Inspection** | **Type** | **Performed By** | **Code References and Notes** |
| | | | | | | | a. Anchor Bolts and Anchor Rods | Test | LOR | Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11. |
| X | X | X | X | X | X | X | b. Threaded rod not used for foundation anchorage. | Test | LOR | Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11. |

**DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022**

| Application Number: | School Name: | School District: |
|---|---|---|
| 04-122203 | SCM | SCM |
| DSA File Number: | Increment Number: | Date Created: |
| 33 Silver | | 2023-09-21 15:25:03 |

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

· UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS COLUMN SPLICES OR BEAM SPLICES WHERE THE MATERIAL THICKNESS BEING WELDED IS 5/16" OR GREATER.
· UT TEST SHALL NOT BE REQUIRED TO BE PERFORMED ON CJP GROOVE WELDS WHERE THE MATERIAL THICKNESS BEING WELDED IS 1/4" OR LESS.
· MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN OR TRUSS CHORD TO COLUMN CJP GROOVE WELDS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0A

# REFLECTED CEILING NOTES

**1. CEILING SYSTEM GENERAL NOTES**

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

| | |
|---|---|
| Manufacturer: | Armstrong |
| Evaluation Report Type and Number: | ICC ESR-1308 |
| Main Runner Part, Model, or Catalog Number: | 7301 |
| Cross Runner Part, Model, Catalog Number: | XL7328 |

1.04 Seismic Wall Clip:

Manufacturer's Model: BERC-2

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

**2. MATERIALS**

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (FY) of 30 ksi and minimum ultimate strength (FU) of 48 ksi.

**3. ATTACHMENT OF HANGER AND BRACING WIRES**

3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

**4. FASTENERS AND WELDING**

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: [RDP to indicate manufacturer, product, evaluation report number and test load for each size specified per CBC 1910A.5.4.]
4.03 Power-Actuated Fasteners shall be: [RDP to indicate manufacturer, product, evaluation report number.]
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

**5. TESTING**

5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

**6. LUMINAIRES**

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

**7. SERVICES WITHIN THE CEILING**

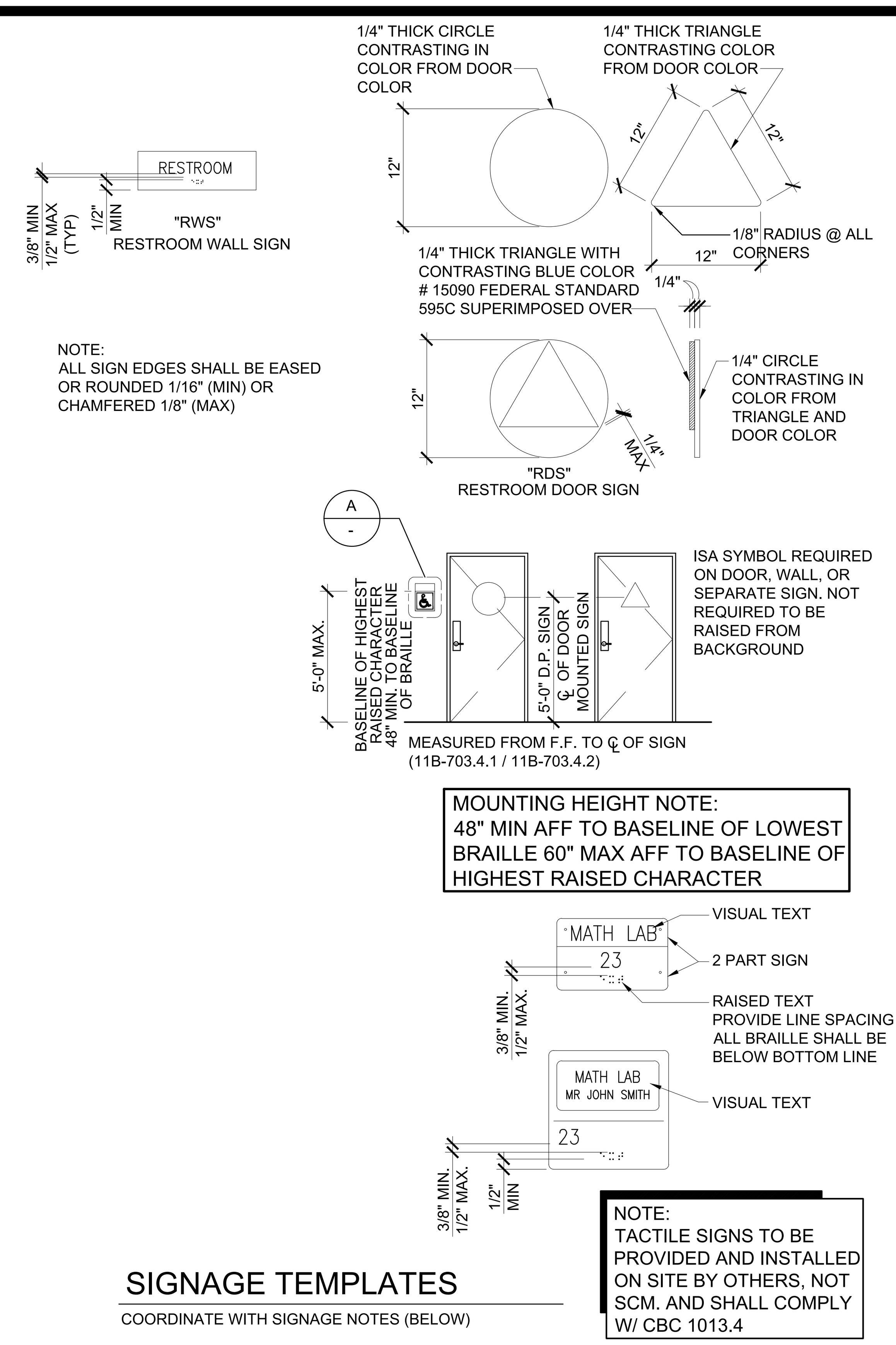
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

**8. OTHER DEVICES WITHIN THE CEILING**

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

NOTE:
ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

NOTE:
PER CBC SECTION 718.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS




## SIGNAGE TEMPLATES

COORDINATE WITH SIGNAGE NOTES (BELOW)

## SIGNAGE NOTES

1. **CHARACTER TYPE:** CHARACTERS ON TACTILE SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEE NOTE 5 BELOW) 11B-703.2.1 & 11B-703.2.2 &11B-703.23.

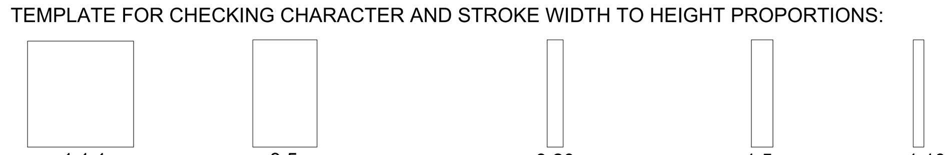
2. **RAISED CHARACTER HEIGHT:** CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (15.9 mm) MINIMUM AND 2 INCH (51 mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.2.5

3. **FINISH AND CONTRAST:** SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH SYMBOLS. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. 11B-703.7.1.

4. **PROPORTIONS:** RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. 11B-703.2.4 + 11B-703.2.6

VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER ' I '. STROKE THICKNESS OF THE UPPER CASE ' I ' SHALL BE 10% MIN. AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

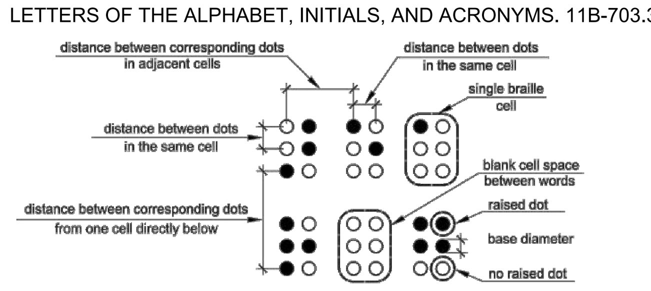
TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

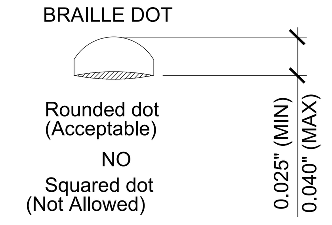



5. **CHARACTER SPACING:** CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX). WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE BASE OF THE CROSS SECTIONS, AND 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" (MIN). 11B-703.2.7

6. **LINE SPACING:** SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% (MIN) AND 170% (MAX) OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

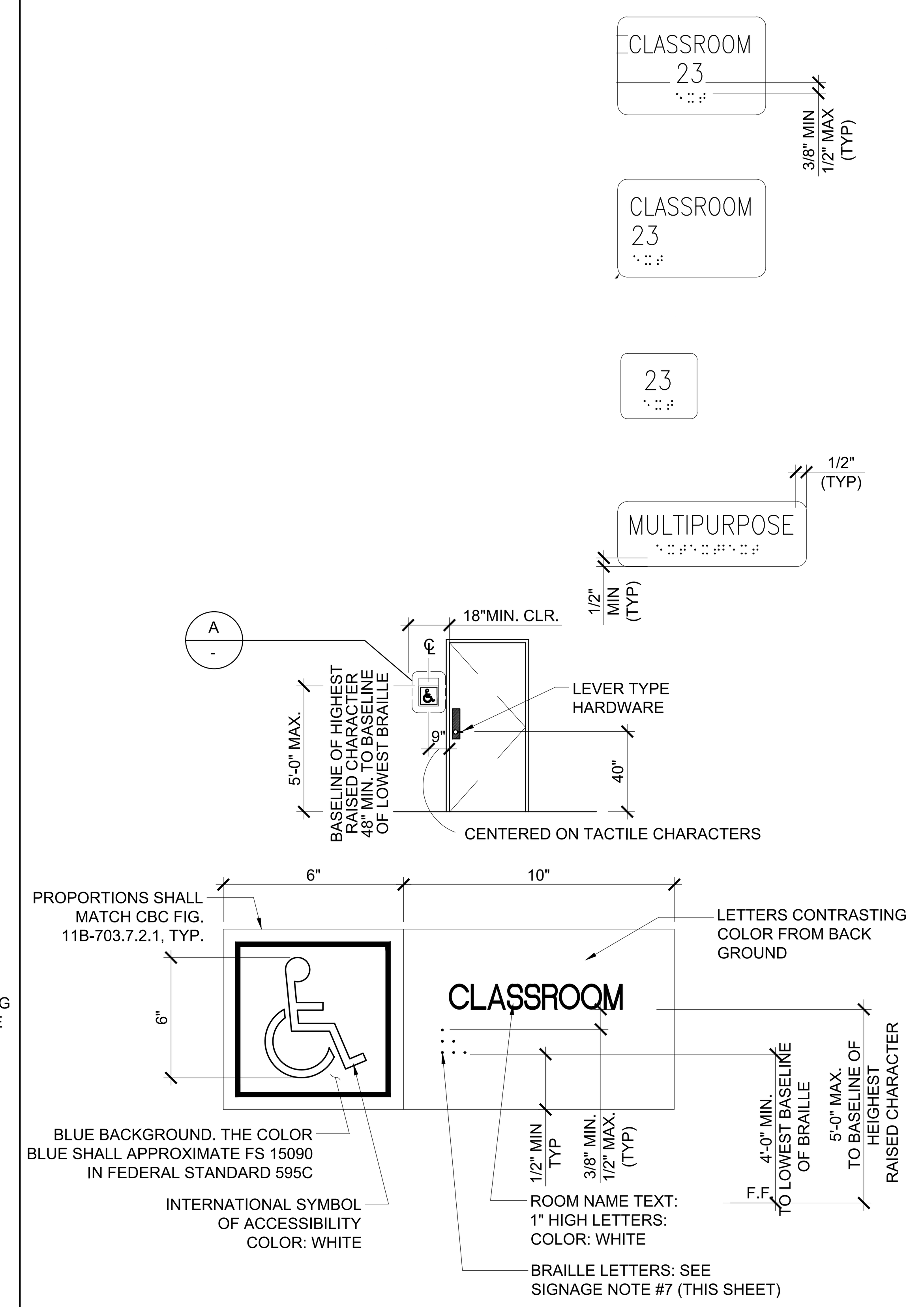
7. **BRAILLE:** BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 11B-703.3.1.




| MEASUREMENT RANGE | MINIMUM IN INCHES MAXIMUM IN INCHES |
|---|---|
| Dot base diameter | 0.059 (1.5 mm) to 0.063 (1.6mm) |
| Distance between two dots in the same cell[1] (#footnote-1) | *0.100 (2.5 mm)* |
| Distance between corresponding dots in adjacent cells[1] (#footnote-1) | *0.300 (7.6 mm)* |
| Dot height | 0.025 (0.6 mm) to 0.037 (0.9 mm) |
| Distance between corresponding dots from one cell directly below[1] (#footnote-1) | 0.395 (10 mm) to 0.400 (10.2 mm) |

1. Measured center to center.




NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC W/1/32" RAISED GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703. WHERE RAISED BOARDERS OCCUR, PROVIDE 1/2" MIN. CLEARANCE BETWEEN TOP OF BOARDER AND LOWEST LEVEL OF BRAILLE TEXT.

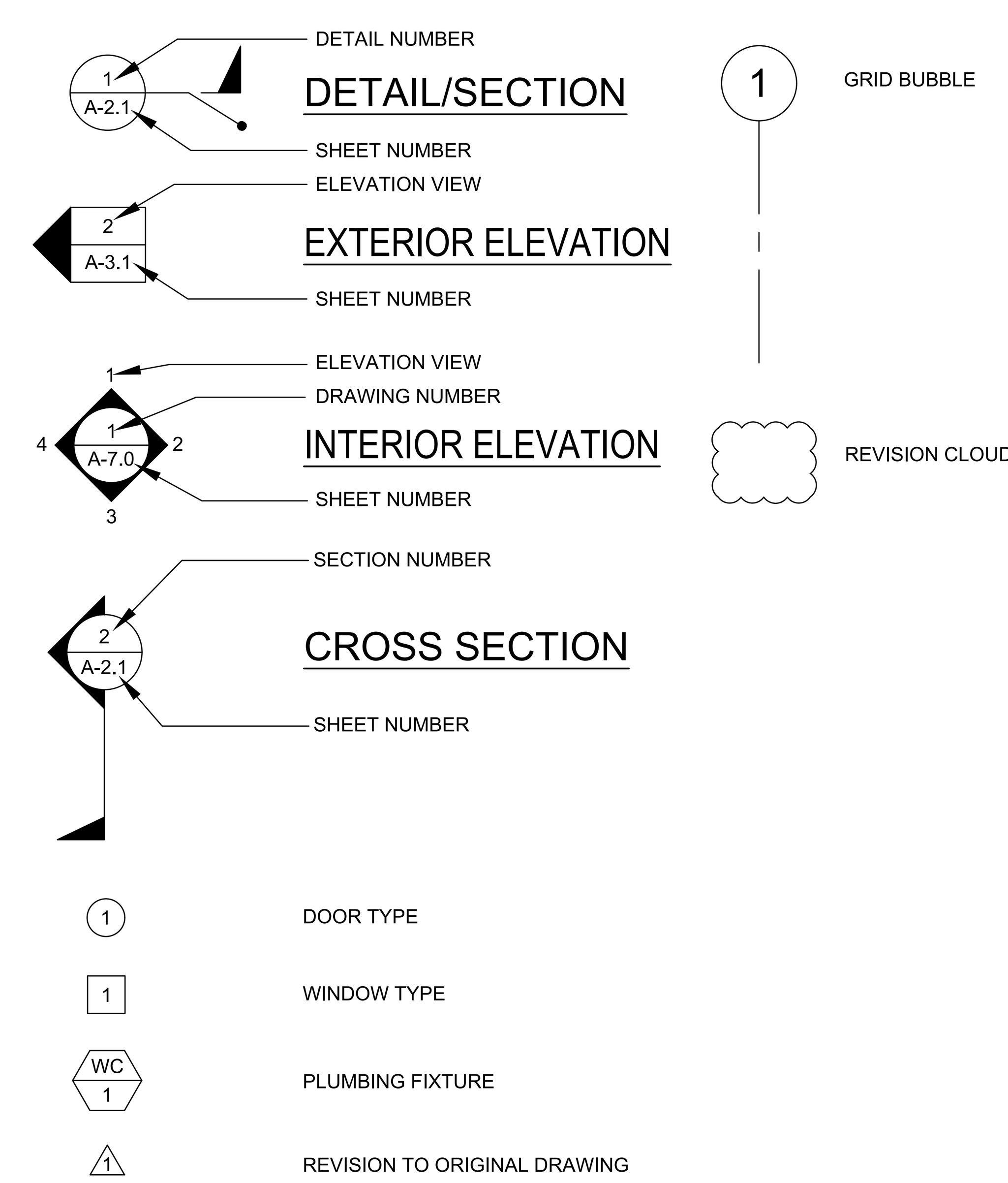
## (A) ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.

COORDINATE WITH SIGNAGE NOTES 1 THROUGH 7 ON THIS SHEET.

**THIS DETAIL FOR REFERENCE ONLY**

## SYMBOLS LEGEND




## ABBREVIATIONS

| | |
|---|---|
| AB | ANCHOR BOLT |
| ABS | ABSOLUTE |
| ABV | ABOVE |
| ACC | ACCESS |
| ADDL | ADDITIONAL |
| ADJ | ADJACENT |
| AFF | ABOVE FINISH FLOOR |
| AFG | ABOVE FINISH GRADE |
| AGC | ABOVE GRADE CONCRETE |
| ALT | ALTERNATE |
| AOR | ARCHITECT OF RECORD |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECTURAL / ARCHITECT |
| BD | BOARD |
| BGC | BELOW GRADE CONCRETE |
| BLDG | BUILDING |
| BLK | BLOCK |
| BLKG | BLOCKING |
| BM | BEAM |
| BOT | BOTTOM (OR BTM) |
| BTWN | BETWEEN |
| BU | BUILT UP |
| CAB | CABINET |
| CBC | CALIFORNIA BUILDING CODE |
| CI | CAST IRON |
| CJ | CONTROL JOINT |
| CJP | COMPLETE JOINT PENETRATION |
| ℄ | CENTER LINE |
| CLG | CEILING |
| CO | CLEAN OUT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONN | CONNECTION |
| CONST | CONSTRUCTION |
| CONT | CONTINUOUS |
| CPT | CARPET |
| CSK | COUNTERSINK |
| CTR | CENTER |
| DBL | DOUBLE |
| DET | DETAIL |
| DF | DOUGLAS FIR |
| DIA OR Ø | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DSA | DIVISION OF THE STATE ARCHITECT |
| DWG | DRAWING |
| (E) | EXISTING |
| EA | EACH |
| EJ | EXPANSION JOINT |
| ELEV | ELEVATION |
| EN | END NAIL |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EW | EACH WAY |
| EXT | EXTERIOR |
| FA | FIRE ALARM |
| FCO | FLOOR CLEAN OUT |
| FF | FINISH FLOOR |
| FG | FINISH GRADE |
| FIN | FINISH |
| FLR | FLOOR |
| FN | FIELD NAILING |
| FND | FOUNDATION |
| FOC | FACE OF CONCRETE |
| FOS | FACE OF STUD |
| FTG | FOOTING |
| FOF | FACE OF FINISH |
| GA | GAUGE |
| GALV | GALVANIZE |
| GC | GENERAL CONTRACTOR |
| GR | GRADE |
| GYP | GYPSUM |
| GYP BD | GYPSUM BOARD |
| HB | HOSE BIBB |
| HD | HEAVY DUTY |
| HDR | HEADER |
| HDW | HARDWARE |
| HF | HEM FIR |
| HORIZ | HORIZONTAL |
| HT | HEIGHT |
| HVAC | HEATING, VENTILATING, AND AIR CONDITIONING |
| INCL | INCLUDED |
| INFO | INFORMATION |
| INT | INTERIOR |
| J-BOX | JUNCTION BOX |
| JST | JOIST |
| JT | JOINT |
| KO | KNOCK OUT |
| LAB | LABORATORY |
| LAM | LAMINATED |
| LAV | LAVATORY |
| LB | POUNDS |
| LT | LIGHT |
| LT WT | LIGHT WEIGHT |
| LVR | LOUVER |
| MAX | MAXIMUM |
| MB | MACHINE BOLT |
| MED | MEDIUM |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MOD | MODULE |
| MTL | METAL |
| (N) | NEW |
| N | NORTH |
| NIC | NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OH | OPPOSITE HAND |
| OPNG | OPENING |
| OPP | OPPOSITE |
| P̲L OR PL | PLATE |
| PC | PRE-CHECKED |
| PLAS | PLASTER |
| PLYWD | PLYWOOD |
| PNL | PANEL |
| POC | POINT OF CONNECTION |
| POT | PATH OF TRAVEL |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | PRESSURE TREATED |
| RAG | RETURN AIR GRILLE |
| RD | ROOF DRAIN |
| REF | REFERENCE |
| REINF | REINFORCE |
| REQ'D | REQUIRED |
| REV | REVISION |
| RF | ROOF |
| RM | ROOM |
| RO | ROUGH OPENING |
| ROH | ROOF OVERHANG |
| SCHED | SCHEDULE |
| SEC | SECTION |
| SHT | SHEET |
| SHTG | SHEATHING |
| SIM | SIMILAR |
| SPEC | SPECIFICATION |
| SQ | SQUARE |
| SST | STAINLESS STEEL |
| STD | STANDARD |
| STIFF | STIFFENER |
| STL | STEEL |
| STS | SELF-TAPPING SCREW |
| STSMS | SELF-TAPPING SHEET METAL SCREW |
| T&B | TOP AND BOTTOM |
| T&G | TONGUE AND GROOVE |
| TEL | TELEPHONE |
| THK | THICK |
| TOC | TOP OF COLUMN |
| TOS | TOP OF STEEL |
| TS | TUBE STEEL |
| TV | TELEVISION |
| TYP | TYPICAL |
| UBC | UNIFORM BUILDING CODE |
| UON | UNLESS OTHERWISE NOTED |
| UR | URINAL |
| VERT | VERTICAL |
| VCT | VINYL COMPOSITION TILE |
| W/ | WITH |
| WC | WATER CLOSET |
| WCO | WALL CLEAN OUT |
| WD | WOOD |
| WH | WATER HEATER |
| WIC | WOODWORK INSTITUTE OF CALIFORNIA |
| WND | WINDOW (OR WDW) |
| W/O | WITHOUT |
| WP | WATER PROOF |

## SPECIFICATIONS

DIVISION 5 - METALS
- ALL WELDED JOINTS AND SURFACES SHALL BE GROUNDED SMOOTH, NO SHARP OR ABRASIVES CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAILS SHALL BE SMOOTH,
- ALL HANDRAILS SHALL BE ROUND OR SHALL HAVE RADIUSED EDGES (r = 1/8" MIN)

DIVISION 6 - WOOD AND PLASTICS
- ALL CABINET AND DRAWERS WILL HAVE U-SHAPED WIRE PULLS

DIVISION 9 - FINISHES
- CEILING INSTALLATION SHALL BE PER THE NOTES PROVIDED ON THIS SHEET.

DIVISION 10 - SPECIALITIES
- ALL TOILET ACCESSORIES SHALL BE INSTALLED AT THE HEIGHT AND CLEARANCES SHOWN ON SHEET P-1.01

DIVISION 22 - PLUMBING
- FAUCETS SHALL BE LEVER OPERATED (4" MIN BLADE) OR SHALL BE PUSH TYPE OR AUTOMATIC ELECTRONICALLY CONTROLLED. CONTROLS TO BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- FORCE TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LBS
- FORCE TO REMAIN OPEN FOR A MINIMUM OF 10 SECONDS WHEN SELF CLOSING VALVES ARE USED
- PIPE COVERS SHALL BE PROVIDED FOR WATER LINES AND DRAIN PIPES UNDER ACCESSIBLE SINKS AND LAVATORIES
- ACCESSIBLE SINKS SHALL NOT BE DEEPER THAN 6 1/2"

## ASSISTIVE LISTENING SYSTEM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL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PROJECT NAME:

SHEET TITLE:

# SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

REVISIONS

| | |
|---|---|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

~~APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023~~

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0.1

# WILDLAND URBAN INTERFACE REQUIREMENTS ☐

WHEN THIS BUILDING IS TO BE INSTALLED WHERE THE REQUIREMENTS OF CHAPTER 7A OF THE 2022 CBC ARE APPLICABLE COMPLIANCE WITH THE APPLICABLE REQUIREMENTS SHALL BE AS OUTLINED BELOW:

CHAPTER 7A REQUIREMENTS:

705A ROOFING

705A.1 - ROOF SHALL BE CLASS 'A'.
705A.2 - NOT APPLICABLE. NO VOIDS OCCUR, ROOF IS APPLIED DIRECTLY.
705A.3 - NOT APPLICABLE. NO VALLEYS OCCUR.
705A.4 - LEAF GUARDS/COVERS SHALL BE PROVIDED AT ALL GUTTERS.

706A VENTS

706A.2 - THE UNDER-FLOOR ACCESS AND VENT OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH A CLEAR OPENING NOT EXCEEDING 1/8".
706A.3 - THE SOFFIT VENTS SHALL BE VULCAN TECHNOLOGIES MODEL #VE OR VSC SOFFIT VENT COVERS (PER CASFM LISTING 8165-2192:0100).

707A EXTERIOR COVERINGS

707A.3 - EXTERIOR WALL FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER 1/2" OSB OVER STUDS OR 19/32" DURATEMP SIDING OVER STUDS (PER SFM LISTING# 8140-2031:0004).
707A.4 - NOT APPLICABLE. NO OPEN ROOF EAVES OCCUR.
707A.5 - SOFFIT FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER FRAMING OR ALLURA FIBER-CEMENT PANELS (NON-COMBUSTIBLE) (PER ESR-1668).
707A.6 - NOT APPLICABLE. DOES NOT OCCUR
707A.7 - NOT APPLICABLE. DOES NOT OCCUR
707A.8 - NOT APPLICABLE. DOES NOT OCCUR
707A.9 - NOT APPLICABLE. DOES NOT OCCUR

708A EXTERIOR DOORS AND WINDOWS

708A.2 - NOT APPLICABLE. DOES NOT OCCUR
708A.3 - EXTERIOR DOORS AND FRAMES ARE NON-COMBUSTIBLE (HOLLOW METAL).
708A.4 - NOT APPLICABLE.

709A - DECKING - THE EXTERIOR DECKING (WHERE APPLICABLE) IS A NON-COMBUSTIBLE STEEL FRAME AND DECK. SKIRTING MATERIAL (WHERE APPLICABLE) SHALL BE 19/32" DURATEMP SIDING (PER SFM LISTING# 8140-2031:0004).

710A - NOT APPLICABLE.

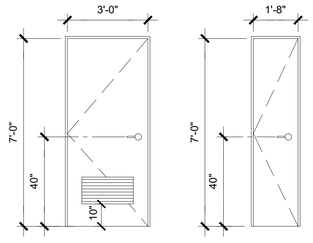
# DOOR SCHEDULE

| DOOR NO | WIDTH | HEIGHT | DOOR TYPE | QTY | DOOR MAT/FIN | FRAME MAT/FIN | HARDWARE SET | LOCKABLE FROM INT. | NOTES* |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3'-0" | 7'-0" | A | | HM | KD | HW - 1 | NO | |
| 2 | 3'-0" | 7'-0" | A | | HM | KD | HW - 2 | NO | NO CLOSER |
| 3 | 1'-8" | 7'-0" | B | | HM | KD | HW - 3 | NO | |
| 4 | 3'-0" | 7'-0" | A | | HM | KD | HW - 4 | NO | |
| | | | | | | | | | |
| | | | | | | | | | |

# DOOR MATERIAL AND FINISH ABBREVIATIONS

| | | | | |
|---|---|---|---|---|
| HM: | 18GA HOLLOW METAL | KD: | KNOCK DOWN FRAME | *EXTERIOR DOORS TO BE UNINSULATED SINGLE LAYER DOORS W/ U-FACTOR OF 1.450 MAX |
| WF: | 16GA WELDED FRAME | SCL: | SOLID CORE WOOD LEGACY | |
| AL: | ALUMINUM | HC: | HOLLOW CORE WOOD | |
| SST: | STAINLESS STEEL | PT: | PAINTED | |

# DOOR TYPES & NOTES




DOOR TYPE "A" DOOR TYPE "B"

1. DOOR HANDLE FOR LOCK SETS AND PANIC HARDWARE TO BE CENTERED AT 40" AFF
2. ALL EXIT DOORS TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE ANY SPECIAL TOOLS, KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
3. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
4. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
5. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
6. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPECS ON THIS SHEET AND CBC SECTIONS 11B-206.5,11B-404.1 & 1010.
7. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 90°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 12" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR.
8. PANIC AND FIRE EXIT HARDWARE. WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING;
   -THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEASE ONE-HALF OF THE DOOR LEAF WIDTH.
   - THE MAXIMUM FORCE TO ACTIVATE ANY OPERABLE PART SHALL NOT EXCEED 5 LBS PER THE 2022 CBC, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
9. ALL HAND ACTIVATED HARDWARE SHALL BE LEVER TYPE, PANIC BARS, PUSH/PULL TYPE OR 'U' SHAPED HANDLES.
10. ALL HAND ACTIVATED HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE AND WILL OPERATE WITH W/ 5 LBS OR LESS FORCE.
11. FLOOR STOP SHALL BE LOCATED 4" MAX FROM FACE OF WALL.

# FINISH SCHEDULE

| ROOM NAME | FLOORING | | WALL FINISH | | | | CEILING | | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| | FLOOR | BASE | FRONT | LEFT | REAR | RIGHT | CEILING | CEILING HT | |
| GIRLS 101 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | |
| BOYS 102 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | |
| STAFF 103 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | |
| CUSTODIAL 104 | SV | SC | FRP | FRP | FRP | FRP | GBP | 8'-0" | |
| PLUMBING CHASE | --- | --- | --- | --- | --- | --- | --- | --- | |
| | | | | | | | | | |
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# FLOOR, WALL, CEILING MATERIALS

FLOORING
CARP: CARPET PER STATE OF CALIFORNIA SPECIFICATIONS COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING W/ FULLY SEALED JOINTS
VCT: VINYL COMPOSITION TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
SC: 6" SELF-COVE BASE, CONTINUE FLOOR MATERIAL UP THE WALL PER 10/A-5.70

WALLS
TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER ½" GYPSUM BOARD BACKING
FRP: 1/8" FIBER REINFORCED PANEL OVER ½" WATER RESISTANT GYPSUM BOARD
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
PLY: 1/2" PLYWOOD FINISH
NF: NO FINISH

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATION NOTES ON REFLECTED CEILING PLAN)
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH (HARD LID CEILING)
GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED)

# INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL:
INSULATING MATERIAL FOR WALLS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING, JOHNS-MANVILLE, OR EQUAL.

INSULATING MATERIAL FOR ROOFS SHALL BE CLOSED CELL SPRAY FOAM AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL HAVE A MINIMUM R-VALUE OF R-6 PER EACH INCH OF THICKNESS, AN AIR PERMEANCE RATE OF NOT MORE THAN 0.02 L/s AT 75 Pa, AND A WATER VAPOR TRANSMISSION RATE OF NOT MORE THAN 0.9 PERMS. THE FOAM SHALL BE APPLIED TO FILL ALL VOIDS IN THE ROOF FRAMING MEMBERS.

MIN INSULATION VALUES:

EXTERIOR WALL INSULATION (MIN.)
- ☐ R-13 (4" WALL @ UNCONDITIONED RESTROOM MODULE ONLY)
- ☐ R-19 (6" WALL)
- ☐ R-30 (8" WALL)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION
- ☐ NONE (CONCRETE MASS)
- ☐ R-19 (MIN)

ROOF INSULATION (MIN.)
R-30 (CLOSED CELL SPRAY FOAM)

# FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1. PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.
4. CARPET SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT / UNCUT PILE TEXTURE AND MAXIMUM PILE HEIGHT OF 1/2" PER THE 2022 CBC. CARPET EDGED SHALL COMPLY WITH THE 2022 CBC

# DOOR HARDWARE

**BOYS & GIRLS RESTROOM - EXTERIOR DOOR HW-1**

| | | | |
|---|---|---|---|
| LOCKSET | TAH LHV70-LFIC SAT | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| CLOSER | TAH DC851 DA | Finish 689 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |
| LOUVER | ANEMO 24 x 12 | Finish Bronze | or equal |

**STAFF RESTROOM - EXTERIOR DOOR HW-2**

| | | | |
|---|---|---|---|
| LOCKSET | SCHLAGE L9496J-06A X 09-509 X L583-363 | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |
| LOUVER | ANEMO 24 x 12 | Finish Bronze | or equal |

**CHASE EXTERIOR DOOR - EXTERIOR DOOR HW-3**

| | | | |
|---|---|---|---|
| LOCKSET | TAH LVH70 LFIC SAT | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |

**CUSTODIAL - EXTERIOR DOOR HW-4**

| | | | |
|---|---|---|---|
| LOCKSET | TAH LVH70 LFIC SAT | Finish 626 | or equal |
| I/C CORE | SCHLAGE 23-030 C123 | Finish 626 | or equal |
| BUTTS | TAH BB179 4 ½" x 4 ½" NRP | Finish 626 | or equal |
| WEATHER STRIP | COLUMBIA 3340S 3684 | Finish Alum | or equal |
| THRESHOLD | COLUMBIA 4920 36" | Finish Alum | or equal |
| DOOR BOTTOM | COLUMBIA 2590 36" | Finish Alum | or equal |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

## SCHEDULES

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.2

STATE OF CALIFORNIA
## Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-CXR-E |
|---|---|---|---|
| *This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.* | | | |
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 1 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:52:47-05:00 |

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 04 | Building Size (ft²) | 480 |
| 02 | Occupancy Type | Nonresidential | 05 | Nonresidential Conditioned Floor Area (ft²) | < 10,000 ft² |
| 03 | Project Type | Newly constructed | 06 | HVAC System Type | Unitary or packaged equipment each serving one zone |
| | | | 07 | Climate Zone | 10 |

**B. PROJECT SCOPE**

*Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.*

**Commissioning Requirements per 120.8**

| | | | |
|---|---|---|---|
| 01 | Table F: Design Review Kickoff | 120.8(d)1 and 120.8(d)2 | The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design. |
| 02 | Table G: Owner's Project Requirements (OPR) | 120.8(b) | This requirement does not apply. |
| 03 | Table H: Basis of Design (BOD) | 120.8(c) | This requirement does not apply. |
| 04 | Table I: Design Review | 120.8(d) and 120.8(e) | The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design. |
| 05 | Table J: Commissioning Plan | 120.8(f) | This requirement does not apply. |
| 06 | Table K: Functional Performance Testing | 120.8(g) | This requirement does not apply. |
| 07 | Table L: Documentation and Training | 120.8(h) | This requirement does not apply. |
| 08 | Table M: Commissioning Report | 120.8(i) | This requirement does not apply. |

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
## Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-CXR-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 2 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:52:47-05:00 |

**C. COMPLIANCE RESULTS**

*Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|---|
| Design Kickoff Review | Owner's Project Requirements | Basis of Design | Design Review | Commissioning Plan | Functional Performance Testing | Documentation and Training | Commissioning Report | Compliance Results |
| Table F | Table G | Table H | Table I | Table J | Table K | Table L | Table M | |
| Yes | | | Yes | | | | | COMPLIES |
| 10 | Design Reviewer(s) for the project include: | | | John Starlin | | | | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
## Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-CXR-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 3 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:52:47-05:00 |

**F. DESIGN REVIEW KICKOFF MEETING**

*This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.*

**Design Review Kickoff Meeting Details**

| | | | | |
|---|---|---|---|---|
| 01 | Date of Design Review Kickoff Meeting | | | 2022-12-05 |
| 02 | Meeting Attendees: (one person may play multiple roles) | | | |
| ☒ | Owner/Facility Manager: | Ryan McIntosh | ☒ Design Reviewer(s) | John Starlin |
| ☐ | Project Manager: | | ☐ Design Architect/ Engineer(s): | |
| ☐ | Contractor: | | ☐ Certified Acceptance Test Tech(s): | |
| ☐ | Commissioning Provider: | | ☒ Energy/ T24 Part 6 Consultant: | John Starlin |

**Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1**

| | | | |
|---|---|---|---|
| | The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code. | Do the Design Reviewer(s) meet these qualifications? | |
| 03 | In addition, for buildings with < 10,000 ft², the design reviewer(s) may be the engineer or architect of record. The design reviewer(s) may also be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect or contractor. | Yes ● | No ○ |
| 04 | The design reviewer(s) for this project will be: | John Starlin | |

**Preliminary Construction Schedule**

| | | Start Date | Completion Date |
|---|---|---|---|
| 05 | Schematic Design | 2022-12-05 | 2022-12-05 |
| 06 | Design Development | 2022-12-05 | 2022-12-05 |
| 07 | Construction Documents | 2022-12-05 | 2023-02-24 |
| 08 | Construction | 2024-01-01 | 2024-01-01 |
| 09 | Building Turnover | 2024-01-01 | 2024-01-01 |

**Project Goals Related to Energy Efficiency**

| | | |
|---|---|---|
| 10 | Operational Costs | Code Minimum performance |
| 11 | Desired Building Lifespan | 30 - 50 years. |
| 12 | Equipment Lifecycle | Industry standard |
| 13 | Project Energy Efficiency Goals | Code Minimum performance |

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
## Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-CXR-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 4 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:52:47-05:00 |

**F. DESIGN REVIEW KICKOFF MEETING**

| | | |
|---|---|---|
| 14 | Envelope Goals | Code minimum performance. |
| 15 | HVAC System Goals | This Requirement does not apply. |
| 16 | Indoor Lighting System Goals | Code minimum performance. |
| 17 | Outdoor Lighting System Goals | Code minimum performance. |
| 18 | Water Heating System Goals | Code minimum performance. |
| 19 | Equipment and System Specifications | Industry standard equipment. |
| 20 | Operations and Maintenance | No specific requirements. |

**G. OWNER'S PROJECT REQUIREMENTS (OPR)**

*This section does not apply to this project.*

**H. BASIS OF DESIGN (BOD)**

*This section does not apply to this project.*

**I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST**

*This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.*

| | | YES | NO |
|---|---|---|---|
| 01 | Attaching Completed Design Review Documentation? | ○ | ● |

**Design Review Checklist**

| | | |
|---|---|---|
| 02 | Envelope Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 03 | HVAC System Design | This Requirement does not apply. |
| 04 | HVAC Controls Design | This Requirement does not apply. |
| 05 | Indoor Lighting System Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 06 | Indoor Lighting Controls Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
## Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-CXR-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 5 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:52:47-05:00 |

**I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST**

| | | |
|---|---|---|
| 07 | Outdoor Lighting System and Controls Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 08 | Water Heating System Design | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |
| 09 | Other Systems and Features | The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle. |

**J. COMMISSIONING PLAN**

*This section does not apply to this project.*

**K. FUNCTIONAL PERFORMANCE TESTING**

*This section does not apply to this project.*

**L. DOCUMENTATION AND TRAINING**

*This section does not apply to this project.*

**M. COMMISSIONING REPORT**

*This section does not apply to this project.*

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*There are no forms required for this project.*

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
## Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-CXR-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 6 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:52:47-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-ELC-E |
|---|---|---|---|
| *This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii* | | | |
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 1 of 4)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:56:05-05:00 |

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 02 | Climate Zone | 10 |
| | | | 03 | Occupancy Types Within Project: | School or ClassroomSupport Areas |

**B. PROJECT SCOPE**

*This table includes electrical systems that are within the scope of the permit application.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Electrical Service Designation/ Description | Scope of Work[1] | Rating[2] (kVA) | Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3] | System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b) | Demand Response Controls | Provides power to dwelling units/common living areas only in multifamily occupancy |
| Site feeder | Add/Alt to feeders and branch circuits only | --- | ☐ | ☐ | Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required. | ☐ |

*[1]FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
*[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
*[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-ELC-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 2 of 4)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:56:05-05:00 |

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.*

| 01 | | 02 | | 03 | | 04 | 05 | 06 |
|---|---|---|---|---|---|---|---|---|
| Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F) | AND | Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G) | AND | Voltage Drop 130.5(c)/ 160.6(c) (See Table H) | AND | Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I) | Electric Ready 160.9 (See Table J) | **Compliance Results** |
| | AND | | AND | Yes | AND | | | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**H. VOLTAGE DROP**

*This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.*

| 01 | 02 | | | | 03 | 04 | 05 | |
|---|---|---|---|---|---|---|---|---|
| Electrical Service Designation/Description | Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method | | | | Location of Voltage Drop Calculations[1] | Sheet Number for Voltage Drop Calculations in Construction Documents | Field Inspector | |
| | | | | | | | Pass | Fail |
| Site feeder | ☒ | Voltage drop less than 5% | ☐ | Permitted by CA Elec Code (Exception to 130.5(c))* | Contractor Responsible | | ☐ | ☐ |

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*
*[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-ELC-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 3 of 4)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:56:05-05:00 |

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-ELC-E - Must be submitted for all buildings |

**L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-ELC-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 4 of 4)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T12:56:05-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starlin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

CERTIFICATE OF COMPLIANCE, NONRESIDENTIAL BUILDING COMMISSIONING

CERTIFICATE OF COMPLIANCE, ELECTRICAL POWER DISTRIBUTION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:

SHEET TITLE:

# CERTIFICATE OF COMPLIANCE FORMS

REVISIONS
1
2
3
4
5

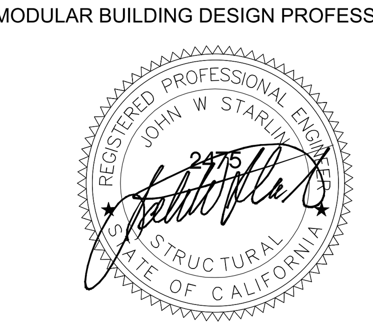
PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL




SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-0.6A

STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| *This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(o) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.* | | | |
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 1 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

| A. GENERAL INFORMATION | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 04 | Total Illuminated Hardscape Area ($ft^2$) | 200 |
| 02 | Climate Zone | 10 | | | |
| 03 | Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): | | | | |
| ☐ | LZ-0: Very Low - Undeveloped Parkland | ☐ LZ-2: Moderate - Urban Clusters | ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval | | |
| ☐ | LZ-1: Low - Rural Areas | ☒ LZ-3: Moderately High - Urban Areas | | | |
| 05 | Occupancy Types within Project | | | | |
| ● School or Classroom ● Support Areas | | | | | |

**B. PROJECT SCOPE**

*This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.*

**My Project Consists of:**

| 01 | 02 |
|---|---|
| ☒ New Lighting System | Must Comply with Allowances from 140.7 / 170.2(e)6 |
| ☐ Altered Lighting System | Is your alteration increasing the connected lighting load (Watts)? ◯ Yes ◯ No |

| 03 | 04 | 05 |
|---|---|---|
| % of Existing Luminaires Being Altered[1] | Sum Total of Luminaires Being Added or Altered | Calculation Method |
| ☐ < 10% ☐ >= 10% and < 50% ☐ >= 50% | | |

***Please proceed to Table E. Outdoor Lighting Fixture Schedule to define the project's luminaires.***

*[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 2 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable table referenced below.*

| Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv | | | | | | | | | | | | | | Compliance Results | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | | | 07 | | 08 | 09 |
| General Hardscape Allowance 140.7(d1) / 170.2(e)6 (See Table I) | + | Per Application Allowance 140.7(d2) / 170.2(e)6 (See Table J) | + | Sales Frontage 140.7(d2) (See Table K) | + | Ornamental Allowance 140.7(d2) / 170.2(e)6 (See Table L) | + | Per Specific Area 140.7(d2) / 170.2(e)6 (See Table M) | OR | Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N) | = | **Total Allowed** (Watts) | ≥ | **Total Actual** (Watts) | | **07 must be >= 08** |
| 272.2 | + | 38 | + | --- | + | --- | + | --- | OR | --- | = | 310.2 | ≥ | 120 | | COMPLIES |
| **Shielding Compliance (See Table G for Details)** | | | | | | | | | | | | | | | | N/A |
| **Controls Compliance (See Table H for Details)** | | | | | | | | | | | | | | | | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

Selections made in Certificates of Installation Table have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

{NRCI-LTO-01-E Explanation} 1



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 3 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

*For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

**Designed Wattage:**

| 01 | 02 | | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | | Watts per luminaire[1, 2] | How is Wattage determined | Total Number Luminaires[2] | Luminaire Status[3] | Excluded per 140.7(a) / 170.2(e)6A | Design Watts | Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1* | Field Inspector | |
| | | | | | | | | | | Pass | Fail |
| F-1 | LED Wallpack | ☐ Linear | 30 | Mfr. Spec | 4 | New | ☐ | 120 | NA; < 6200 lumens | ☐ | ☐ |
| **Total Design Watts:** | | | | | | | | 120 | | | |

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
*EX: Luminaire is lighting a statue; EXEEPTION 2 to 130.2(b)*

*[1]FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
*[2] For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column D5 instead of number of luminaires.*
*[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
*[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

**G. SHIELDING REQUIREMENTS (BUG)**

*This section does not apply to this project.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 4 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

**H. OUTDOOR LIGHTING CONTROLS**

*This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.*
*Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit*

**Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings**

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| Area Description | Shut-Off 130.2(c)1 / 160.5(c) | Auto-Schedule 130.2(c)2 / 160.5(c) | Motion Sensor 130.2(c)3 / 160.5(c) | Field Inspector | |
| | | | | Pass | Fail |
| Entry: "F-1" | Photocontrol | Provided | NA; Facade, etc. >=24 ft | ☐ | ☐ |

*[1]FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
*[2]Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
*[3]Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from I and iii.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 1 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

**I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))**

*This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-A while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

| Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 01 | | | | | | | | |
| ☒ General Hardscape Allowance Table I (below) | "Use it or lose it" Allowance (select all that apply) (select all that apply) | | | | | | | |
| | ☒ Per Application Table J | ☐ Sales Frontage Table K | ☐ Ornamental Table L | ☐ Per Specific Area Table M | | | | |

| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|
| Area Description | Area Wattage Allowance (AWA) | | | Linear Wattage Allowance (LWA) | | | Total General AWA + LWA (Watts) |
| | Illuminated Area ($ft^2$) | Allowed Density ($W/ft^2$) | Area Allowance (Watts) | Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | |
| Entry | 200 | 0.021 | 4.2 | 90 | 0.2 | 18 | 22.2 |
| **Initial Wattage Allowance for Entire Site (Watts):** | | | | | | | 250 |
| **Instances of Initial Wattage Allowance (LZ 0 only)[1]** | | | | | | | |
| **Total General Hardscape Allowance (Watts):** | | | | | | | 272.2 |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 6 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

**J. LIGHTING ALLOWANCE: PER APPLICATION**

*This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Application per Table 140.7-B[1] | CALCULATED ALLOWANCE (Watts) | | | DESIGN WATTS | | | | Additional Allowance (Watts) |
| | | # of Locations | Allowance per Location[2] | Extra Allowance (Watts) | Luminaire Name or Item Tag | Watts per Luminaire | # of Luminaires | Design Watts | |
| Entry Door | Building Entrance/Exit | 2 | 19 | 38 | F-1 | 30 | 4 | 120 | 38 |
| Total Design Watts for this Area: | | | | | | | | 120 | |
| **Total Allowance (Watts) All Areas:** | | | | | | | | | **38** |

*[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
*[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
*[3] For luminaires indicated in Table F as linear, wattage in column D? is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column D8 instead of number of luminaires.*

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**

*This section does not apply to this project.*

**L. LIGHTING ALLOWANCE: ORNAMENTAL**

*This section does not apply to this project.*

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**

*This section does not apply to this project.*

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**

*This section does not apply to this project.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 7 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-LTO-E - Must be submitted for all buildings |

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. | Entry: "F-1" |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 8 of 8)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T17:55:05-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | | | |
|---|---|---|---|
| Documentation Author Name: Ryan McIntosh | | Documentation Author Signature: | |
| Company: Silver Creek Industries, LLC | | Signature Date: 02-20-2023 | |
| Address: 2830 Barrett Ave | | CEA/ HERS Certification Identification (if applicable): | |
| City/State/Zip: Perris/CA/92571 | | Phone: (951) 943-53031 | |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53031 |



CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING

STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 1 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T13:48:22-05:00 |

| A. GENERAL INFORMATION | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 02 | Climate Zone | 10 |
| 03 | Occupancy Types Within Project [select all that apply]: | | | | |
| ● School or Classroom ● Support Areas | | | | | |

**B. PROJECT SCOPE**

*This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140.7 / 170.2(d) and 141.0(a) / 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.*

| 01 | 02 | 03 | | |
|---|---|---|---|---|
| My project consists of (check all that apply): | System Type[1,2] | System Components | | |
| ☒ New system (DHW system being installed for the first time in newly constructed building) | Individual System (serving nonresidential spaces) | ☒ Equipment | ☒ Distribution | ☒ Controls |
| ☐ System Alteration (equipment, distribution or controls) | | ☐ Equipment | ☐ Distribution | ☐ Controls |

*[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
*[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
*[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

**C. COMPLIANCE RESULTS**

*Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.*

| 01 | 02 | 03 | 04 |
|---|---|---|---|
| Domestic Hot Water Equipment | Distribution Systems | Controls | **Compliance Results** |
| Table F | Table G | Table H | |
| Yes | Yes | Yes | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 2 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T13:48:22-05:00 |

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*

**F. DOMESTIC HOT WATER EQUIPMENT**

*This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.*

**Equipment Schedule: Water Heating Efficiency and Standby Loss**

| 03 | 04 | | 05 | | | 06 | | |
|---|---|---|---|---|---|---|---|---|
| System Name | WH-1 | Exception to 140.5(c)/ 170.2(d)3 | Exceptions Do Not Apply | ☐ | Gas Service Water Heating System >= 1MMBtu/h[1] | Capacity-weighted Average Efficiency % | | |
| 07 | 08 | 09 | 10 | | 11 | 12 | 13 | 14 | 15 |
| Name or Item Tag | Equipment Type | Volume (gal) | Rated Input Capacity (Btu/h) | Max GPM/ First Hour Rating (FHR) | Rated Efficiency | Minimum Efficiency Required | Efficiency Unit | Designed Standby Loss | Maximum Standby Loss |
| WH-1 | Consumer Rated Electric Instantaneous ( <=12kW) | <=2 | 10,264 | 0 <= GPM <1.7 | 0.91 | 0.91 | UEF | | |

*[1]FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

**Water Heating Equipment All Occupancies**

| | Yes | No | Not Applicable | Requirement |
|---|---|---|---|---|
| 18 | ☐ | ☐ | ☒ | Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3 |
| 19 | ☐ | ☐ | ☒ | New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5 |
| 20 | ☐ | ☐ | ☒ | Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6 |
| 21 | ☐ | ☐ | ☒ | School buildings < 25,000 $ft^2$ and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater. |



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 3 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T13:48:22-05:00 |

**G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM**

*This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).*

**Mandatory Pipe Insulation All Occupancies**

| | | |
|---|---|---|
| 13 | ☐ | For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except:<br>• Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members<br>• Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5.<br>• Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation. |
| 14 | ☒ | For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3:<br>• Recirculating system piping, including supply and return piping of the water heater<br>• The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system<br>• Pipes that are externally heated |
| 15 | ☒ | Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve. |

**TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS**

| Fluid Temperature Range (°F) | Conductivity Range (Btu-in per hour per $ft^2$ per °F) | Insulation Mean Rating Temp ( °F) | Nominal Pipe Diameter (in) | | | |
|---|---|---|---|---|---|---|
| | | | < 1 | 1 to < 1.5 | 1.5 to < 4 | 1.5 to < 4 Multifamily & Hotel/Motel |
| | | | Minimum Insulation Required | | | |
| 105-140 | 0.22 - 0.28 | 100 | 1.0 in or R-7.7 | 1.5 in or R-12.5 | 1.5 in or R-11 | 2.0 in or R-16 |



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 4 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T13:48:22-05:00 |

**H. DOMESTIC HOT WATER CONTROLS**

*This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).*

| | Yes | No | Not Applicable | Requirement |
|---|---|---|---|---|
| 01 | ☒ | ☐ | ☐ | Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a). |
| 02 | ☐ | ☐ | ☒ | Systems with capacity < 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0. |
| 03 | ☐ | ☐ | ☒ | Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility. |
| 04 | ☐ | ☐ | ☒ | For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions. |
| 05 | ☐ | ☐ | ☒ | For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d). |
| 06 | ☐ | ☐ | ☒ | Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows:<br>• Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure<br>• Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h. |
| 07 | ☐ | ☐ | ☒ | Boiler combustion air fans with motor >= 10 hp shall meet one of the following<br>• The fan motor shall be driven by a variable speed drive OR<br>• The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume. |
| 08 | ☐ | ☐ | ☒ | Newly installed boilers with an input capacity (dgta/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited. |

**I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-PLB-E - Must be submitted for all buildings |



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 5 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T13:48:22-05:00 |

**J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

*There are no forms required for this project.*



STATE OF CALIFORNIA
## Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-PLB-E |
|---|---|---|---|
| **Project Name:** | 40 Toilet PC-12x40 | **Report Page:** | **(Page 6 of 6)** |
| **Project Address:** | | **Date Prepared:** | 2023-02-20T13:48:22-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | | | |
|---|---|---|---|
| Documentation Author Name: Ryan McIntosh | | Documentation Author Signature: | |
| Company: Silver Creek Industries, LLC | | Signature Date: 02-20-2023 | |
| Address: 2830 Barrett Ave | | CEA/ HERS Certification Identification (if applicable): | |
| City/State/Zip: Perris/CA/92571 | | Phone: (951) 943-53031 | |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Starin | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53031 |



CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL


THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-SAB-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 1 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T14:17:32-05:00 |

*This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.*

| A. GENERAL INFORMATION | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 04 | Building Occupancies | School or ClassroomSupport Areas |
| 02 | Climate Zone | 10 | 05 | Construction Type | New construction |
| 03 | Conditioned Floor Area (ft²) | 0 | 06 | Number of Stories | Bldg <= 3 stories |

**B. PROJECT SCOPE**

*The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.*

| Compliance with Solar Readiness Requirements in 110.10(b)1B | | |
|---|---|---|
| 01 | | |
| ☒ | Provide Solar Ready Area no exceptions | The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F. |
| ☐ | Exception to Solar Ready Area: Installed Solar Photovoltaic System | The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G. |
| ☐ | Exception to Solar Ready Area: Installed Solar Water Heating System | The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. |
| ☐ | Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure | The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I. |
| ☐ | Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or heliport | Plan sheet showing roof designed for vehicular traffic, parking or heliport |
| ☐ | Exception to Solar Ready Area: Roof too small | The project is new construction and has a total roof area <= 533 square feet[1] |
| ☐ | Exception to Solar Ready Area: Number of building stories | The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories. |

[1]*FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.*



STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-SAB-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 2 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T14:17:32-05:00 |

| Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h) | | |
|---|---|---|
| 01 | | |
| ☐ | Provided PV system and battery storage sized per 140.10/ 170.2 (g and h) | The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J. |
| ☐ | Exception to PV and Battery: Not enough Solar Access Roof Area | The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J. |
| ☒ | Exception to PV and Battery: Required PV < 4kW | The required PV system size is less than 4 kW dc as documented in Table J.. |
| ☐ | Exception to PV and Battery: No contiguous Solar Access Roof Area | The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J. |
| ☐ | Exception to PV and Battery: Can't meet snow load | The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads. |
| ☐ | Exception to PV and Battery: Multi-tenant without VNEM or Community Solar | The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program. |
| ☐ | The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form. | The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program. |

| Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only) | |
|---|---|
| 01 | |
| ☐ | The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.<br>Compliance meets Exception 2 to solar ready requirements in 110.10(b). |



STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-SAB-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 3 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T14:17:32-05:00 |

**C. COMPLIANCE RESULTS**

*Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance or see the applicable Table referenced below.*

| Allocated Solar Zone | | | | Installed PV System | | | | | Installed SWH System | | | | Smart Tstat and Alternative EE Measure | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | 02 | | 03 | | 04 | | | 05 | | 06 | | 07 | 08 | |
| Required Minimum Area (ft²) | <= | Designated Area (ft²) | OR | Required Minimum DC Power Rating (Watts) | <= | Designed DC Power Rating (Watts) | OR | | Required Minimum Solar Savings Fraction | <= | Designed/Rated Solar Savings Fraction | OR | JA5 Compliant Thermostat Specified[1] | Alternative Energy Efficiency Measure | COMPLIES |
| {See Table F} | | | | {See Tables G or J} | | | | | {See Table H} | | | | {See Table I} | | |
| 85.5 | <= | 89 | OR | 0 | <= | 0 | OR | | | <= | | OR | | | |
| N/A | | | | Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c). | | | | | | | | | | | COMPLIES |
| Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table 1. | | | | | | | | | | | | | | | Not Applicable |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.*



STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-SAB-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 4 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T14:17:32-05:00 |

**F. ALLOCATED SOLAR ZONE**

*This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.*

**Required Minimum Solar Zone**

| 01 | 02 | 03 | 04 | 05 | 06 | | | 07 | 08 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Potential Solar Zone Area: Roof areas with >= 70% Solar Access | | | | |
| Minimum Solar Zone Area Calculation Method | Total New or Added Roof Area (ft²) | Total New or Added Roof Area Covered with Skylights (ft²) | Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylt)) (ft²) | Method/ Tools Used to Determine Annual Solar Access for Potential Zones: | Low-Sloped Area (<= 2:12 pitch) (ft²) | Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²) | Total Potential Solar Zone Area (ft²) | Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²) | Required Minimum Solar Zone Area (ft²) |
| Total New or Added Roof Area | 570 | 0 | 85.5 | | | | | | 85.5 |

**Designated Solar Zone Subareas**

| 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|
| Subarea Name or Tag | Building Plan Reference | Roof or Overhang Slope (Low =< 2:12 pitch) (Steep > 2:12 pitch) | Is Steep-Sloped Roof or Overhang between 90 and 300 degrees? | Subarea Complies with Title 24, Part 9 | Solar Zone Subarea Free of Obstructions per §110.10(b)3A | Subarea is Required Distance from Potential Obstructions per §110.10(b)3B | Is the Smallest Dimension 5 feet or greater? | Min. Area Required per Subarea (ft²) | Designated Area (ft²) | Subarea Complies? |
| Solar Zone | Roof plans, sheets A-3.xx | Low slope | | Yes | Yes | Yes | Yes | 80 | 89 | COMPLIES |



CERTIFICATE OF COMPLIANCE, SOLAR READY AREAS

STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-SAB-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 5 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T14:17:32-05:00 |

| Interconnection Pathways | |
|---|---|
| Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c). | N/A |

[1]*FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.*

**G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION**

*This section does not apply to this project.*

**H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS**

*This section does not apply to this project.*

**I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION**

*This section does not apply to this project.*



STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-SAB-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 6 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T14:17:32-05:00 |

**J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS**

*This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.*

**Photovoltaic (PV) System**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
|---|---|---|---|---|---|---|---|
| Occupancy | Conditioned Floor Area (ft²) | Area of New Roof[1] (ft²) | Roof Area > 70% Solar Access[2] (ft²) | Plansheet or Document showing Solar Access Calculations | Occupied Roof Area[3] (ft²) | Solar Access Roof Area (SARA) (ft²) | Min Size of PV System Required (kWdc) |
| School or Classroom | 0 | 570 | 0 | Roof plans sheets A-3.xx | 0 | 570 | 0 |
| | | | | | Total Min Size PV System Required for all Spaces (kWdc): | | 0 |
| | | | | | Total Size PV System in Design (kWdc): | | 0 |

[1]*FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.*
[2]*Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.*
[3]*As specified by CBC Section 503.1.4.*

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements. |

**L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*There are no forms required for this project.*



STATE OF CALIFORNIA
**Solar And Battery** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-SAB-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 7 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T14:17:32-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Stiefel | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 1 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T12:26:35-05:00 |

*This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.*

| A. GENERAL INFORMATION | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | NA | 04 | Total Conditioned Floor Area (ft²) | 0 |
| 02 | Climate Zone | 10 | 05 | Total Unconditioned Floor Area (ft²) | 480 |
| 03 | Occupancy Types Within Project {select all that apply}: | | 06 | # of Stories (Habitable Above Grade) | 1 |

- Support Areas

**B. PROJECT SCOPE**

*This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.*

| Scope of Work | Conditioned Spaces | | Unconditioned Spaces | |
|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 |
| My Project Consists of (check all that apply): | Calculation Method | Area (ft²) | Calculation Method | Area (ft²) |
| ☒ New Lighting System | N/A | 0 | Complete Building Method | 480 |
| ☐ New Lighting System - Parking Garage | N/A | 0 | N/A | 0 |
| Total Area of Work (ft²) | | | 480 | |



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 2 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T12:26:35-05:00 |

**C. COMPLIANCE RESULTS**

*If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D , for guidance.*

| Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b) / 170.2(e) | Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts) | | | | | | Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts) | | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 02 | 03 | 04 | 05 | | 06 | 07 | | 08 | | 09 |
| | Complete Building 140.6(c)1 | Area Category 140.6(c)2 / 170.2(e)4 | Area Category Additional 140.6(c)2E / 170.2(e)4Av (+) | Tailored 140.6(c)3 / 170.2(e)4B (+) | = | Total Allowed (Watts) | ≥ | Total Designed (Watts) | Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-) | = | Total Adjusted (Watts) *Includes Adjustments | 05 must be >= 08 140.6 / 170.2(e) |
| | {See Table I} | {See Table I} | {See Table J} | {See Table K} | | | | {See Table F} | {See Table P} | | | |
| Conditioned | | | | | = | | ≥ | | | = | | |
| Unconditioned | 288 | | | | = | 288 | ≥ | 222 | | = | 222 | COMPLIES |
| Controls Compliance {See Table H for Details} | | | | | | | | | | | | COMPLIES |
| Rated Power Reduction Compliance {See Table Q for Details} | | | | | | | | | | | | |

**D. EXCEPTIONAL CONDITIONS**

*This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.*

**E. ADDITIONAL REMARKS**

*This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.*



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 3 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T12:26:35-05:00 |

**F. INDOOR LIGHTING FIXTURE SCHEDULE**

*This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.*

**Designed Wattage: Unconditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Modular (Track) Fixture | Small Aperture & Color Change[1] | Watts per luminaire[2] | How is Wattage determined | Total Number of Luminaires | Excluded per 140.6(a)3 / 170.2(e)2C | Design Watts | Field Inspector | |
| | | | | | | | | | Pass | Fail |
| F-1 | Lay-in LED Fixture | No | NA | 37 | Mfr. Spec | 6 | No | 222 | ☐ | ☐ |
| Total Designed Watts: UNCONDITIONED SPACES | | | | | | | | 222 | | |

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*
[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

**G. MODULAR LIGHTING SYSTEMS**

*This section does not apply to this project.*

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

*This table includes lighting controls for conditioned and unconditioned spaces.*

**Building Level Controls**

| 01 | 02 | 03 | |
|---|---|---|---|
| | | Field Inspector | |
| | | Pass | Fail |
| Mandatory Demand Response 110.12(c) | Shut-off controls 130.1(c) / 160.5(b)4C | ☐ | ☐ |
| NA < 4,000W subject to multilevel | See Area/Space Level Controls | | |



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 4 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T12:26:35-05:00 |

**H. INDOOR LIGHTING CONTROLS (Not including PAFs)**

**Area Level Controls**

| 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Manual Area Controls 130.1(a) / 160.5(b)4A | Multi-Level Controls 130.1(b) / 160.5(b)4B | Shut-Off Controls 130.1(c) // 160.5(b)4C | Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D | Secondary Daylighting 130.1(d) / 160.5(b)4D | Interlocked Systems 140.6(a)2 170.2(e)2A | Field Inspector | |
| | | | | | | | | Pass | Fail |
| Restroom | School or Classroom | Auth. Personnel | Dimmer | Occupancy Sensor | NA: Not daylit zone | NA: Not daylit zone | No | ☐ | ☐ |
| | | | | | 13 | | | | |
| | | | | | Plan Sheet Showing Daylit Zones: | | | | |

**I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS**

*Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .*

**Unconditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | |
|---|---|---|---|---|---|---|
| Area Description | Complete Building or Area Category Primary Function Area | Allowed Density (W/ft²) | Area (ft²) | Allowed Wattage (Watts) | Additional Allowance / Adjustment | |
| | | | | | Area Category | PAF |
| Restroom | School or Classroom | 0.6 | 480 | 288 | No | No |
| | | TOTALS: | 480 | 288 | See Tables J, or P for detail | |

**J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM**

*This section does not apply to this project.*



STATE OF CALIFORNIA
**Indoor Lighting** CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | NRCC-LTI-E |
|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 5 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T12:26:35-05:00 |

**K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE**

*This section does not apply to this project.*

**L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY**

*This section does not apply to this project.*

**M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING**

*This section does not apply to this project.*

**N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS**

*This section does not apply to this project.*

**O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE**

*This section does not apply to this project.*

**P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))**

*This section does not apply to this project.*

**Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS**

*This section does not apply to this project.*

**R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS**

*This section does not apply to this project.*



STATE OF CALIFORNIA
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|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 6 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T12:26:35-05:00 |

**S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)**

*This section does not apply to this project.*

**T. DWELLING UNIT LIGHTING**

*This section does not apply to this project.*

**U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

| Form/Title |
|---|
| NRCI-LTI-E - Must be submitted for all buildings |

**V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | Restroom |



STATE OF CALIFORNIA
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|---|---|---|
| Project Name: | 40 Toilet PC-12x40 | Report Page: (Page 7 of 7) |
| Project Address: | | Date Prepared: 2023-02-20T12:26:35-05:00 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

**I certify that this Certificate of Compliance documentation is accurate and complete.**

| | |
|---|---|
| Documentation Author Name: Ryan McIntosh | Documentation Author Signature: |
| Company: Silver Creek Industries, LLC | Signature Date: 02-20-2023 |
| Address: 2830 Barrett Ave | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

| | |
|---|---|
| Responsible Designer Name: John Stiefel | Responsible Designer Signature: |
| Company: Silver Creek Industries, LLC | Date Signed: 02-20-2023 |
| Address: 2830 Barrett Ave | License: 2475 |
| City/State/Zip: Perris/CA/92571 | Phone: (951) 943-53931 |



INTERIOR LIGHTING COMPLIANCE FORMS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL


THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.


PROJECT NAME:

SHEET TITLE:

# CERTIFICATE OF COMPLIANCE FORMS

REVISIONS
1
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3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJEC

## CALIFORNIA ENERGY CODE - MANDATORY MEASURES

### INTERIOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- EACH ROOM AND AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL BE EQUIPPED WITH MANUAL ON AND OFF LIGHTING CONTROLS PER SECTION 130.1(a).
- ALL ROOMS AND AREAS 100 SF OR GREATER AND WITH MORE THAN 0.5 WATT PER SF OF LIGHTING LOAD WITH 2 OR MORE LUMINAIRES SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM. CONTROL STEPS SHALL MEET REQUIREMENTS IN TABLE 130.1-A.
- PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR IN ALL ROOMS.
- ALL GENERAL LIGHTING IN PRIMARY SIDELIT DAYLIT ZONES AND SKYLIT DAYLIT ZONES IN ENCLOSED SPACES WITH 120 WATTS, OR MORE IN COMBINED PRIMARY/SKYLIT ZONES AND 24 SF, OR MORE OF FENESTRATION, SHALL BE CONTROLLED WITH AUTOMATIC DAYLIGHTING CONTROLS PER SECTION 130.1(d).

### OUTDOOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- ALL OUTDOOR LIGHTING SHALL BE OPERATED WITH CONTROLS WHICH AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE PER SECTION 130.2(c).
- ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS WHICH ARE CONTROLLED BY AN AUTOMATIC SCHEDULING CONTROL PER SECTION 130.2(c).

### SOLAR READY AND ELECTRICAL DISTRIBUTION MANDATORY MEASURES:

- A SOLAR ZONE SHALL BE PROVIDED ON THE ROOF OF THE BUILDING PER SECTION 110.10(b).
- A PATHWAY SHALL BE PROVIDED FROM THE SOLAR ZONE TO AN INDICATED LOCATION SUITABLE FOR THE FUTURE INSTALLATION OF INVERTERS AND METERING EQUIPMENT PER SECTION 110.10(c).
- ELECTRICAL SERVICE METERING SHALL UTILIZE A PERMANENTLY INSTALLED METERING SYSTEM PER SECTION 130.5(a).
- SEPERATION OF ELECTRICAL CIRCUITS SHALL NOT BE REQUIRED WHERE ELECTRICAL SERVICE OR FEEDER IS RATED AT 50 KVA OR LESS PER SECTION 130.5(b).
- THE VOLTAGE DROP TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5% PER SECTION 130.5(c).

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

CALIFORNIA ENERGY CODE - MANDATORY MEASURES | 1

## CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL: WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
   I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   I. REVIEW AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
   II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
   III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
   IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
   I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
   II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
   III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
   A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY,
   B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
   C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
   I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
   II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
   III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
   IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS. INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
   V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL, THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.
4. A MINIMUM OF 65% (BY WEIGHT) OF THE NON-HAZARDOUS CONSTRUCTION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.
5. CONSTRUCTION WASTE MATERIALS SHALL BE COLLECTED IN CO-MINGLED CONTAINERS EXCEPT STEEL AND WOOD SHALL BE COLLECTED SEPARATELY.
6. CONSTRUCTION WASTE SHALL BE HAULED, SEPARATED, AND MEASURED BY CR+R (OR AN EQUAL WASTE MANAGEMENT COMPANY). A REPORT SHALL BE PROVIDED INDICATING THE DIVERSION RATE (BY VOLUME).

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

## IEQ PLAN

A. CONSTRUCTION PHASE:
1. NOT USED
2. PROTECTION OF MATERIALS
   I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
   II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
   III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
   I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
   II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
   III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
   IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
   I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
   II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
   III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
   IV. ONCE INSTALLED ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
   V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
   VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
   I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
   II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOC EMISSIONS HAVE DISSIPATED.
   III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
   IV. NOT USED
   V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOC EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
   VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
   VII. NOT USED

## LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS
ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS
ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS
ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD
ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM THESE PRODUCTS.

CEILING & WALL SYSTEMS
ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

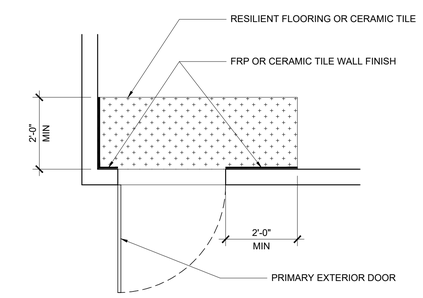
CARPET SYSTEMS
ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS
ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. SEE DETAIL A/- FOR TYPICAL FLOOR AND WALL FINISH DIAGRAM.

ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

## OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFCs OR HALONS.




A PRIMARY EXTERIOR WALL FINISH DIAGRAM

CALGREEN SPECIFICATIONS | 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# ENERGY MANDATORY MEASURES & CALGREEN SPEC'S

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

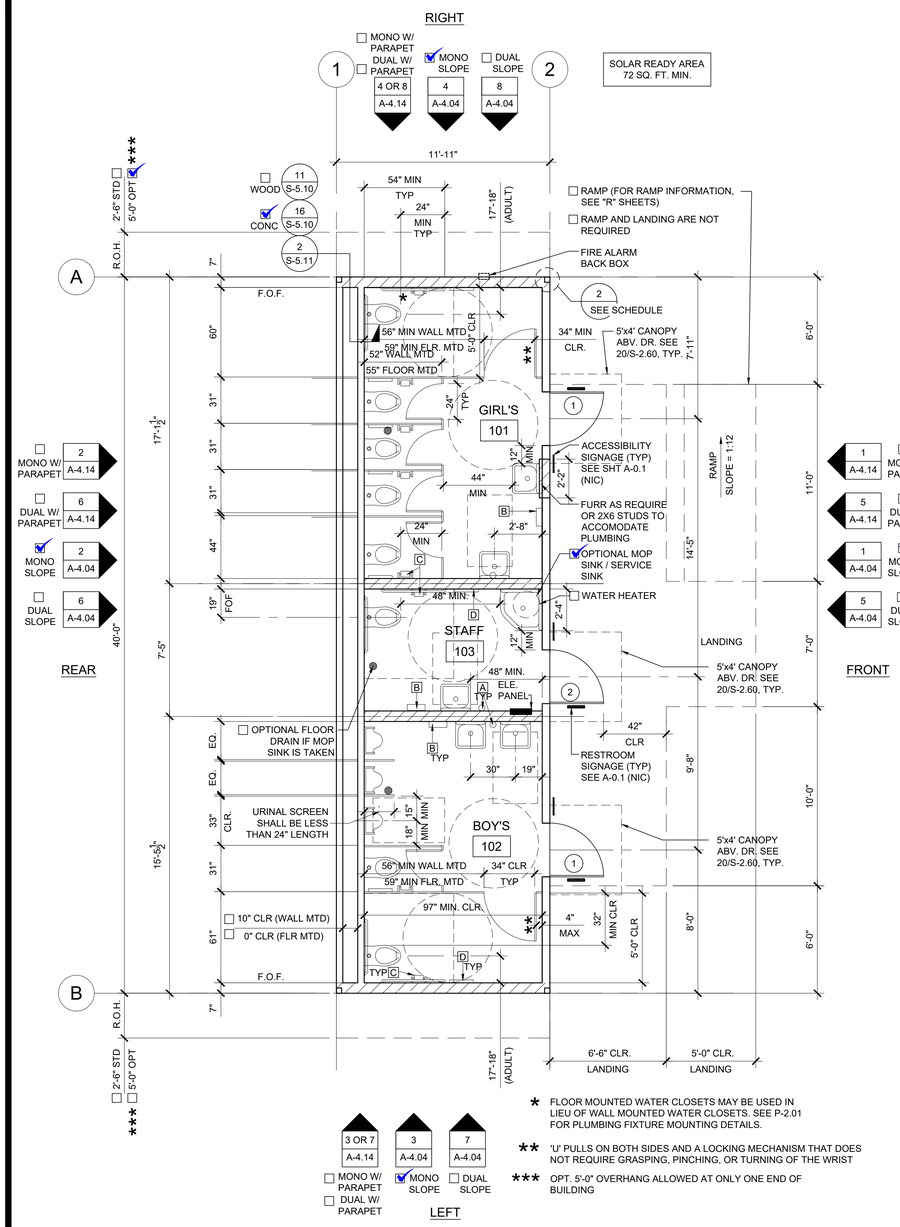
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUCH
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-0.7 |



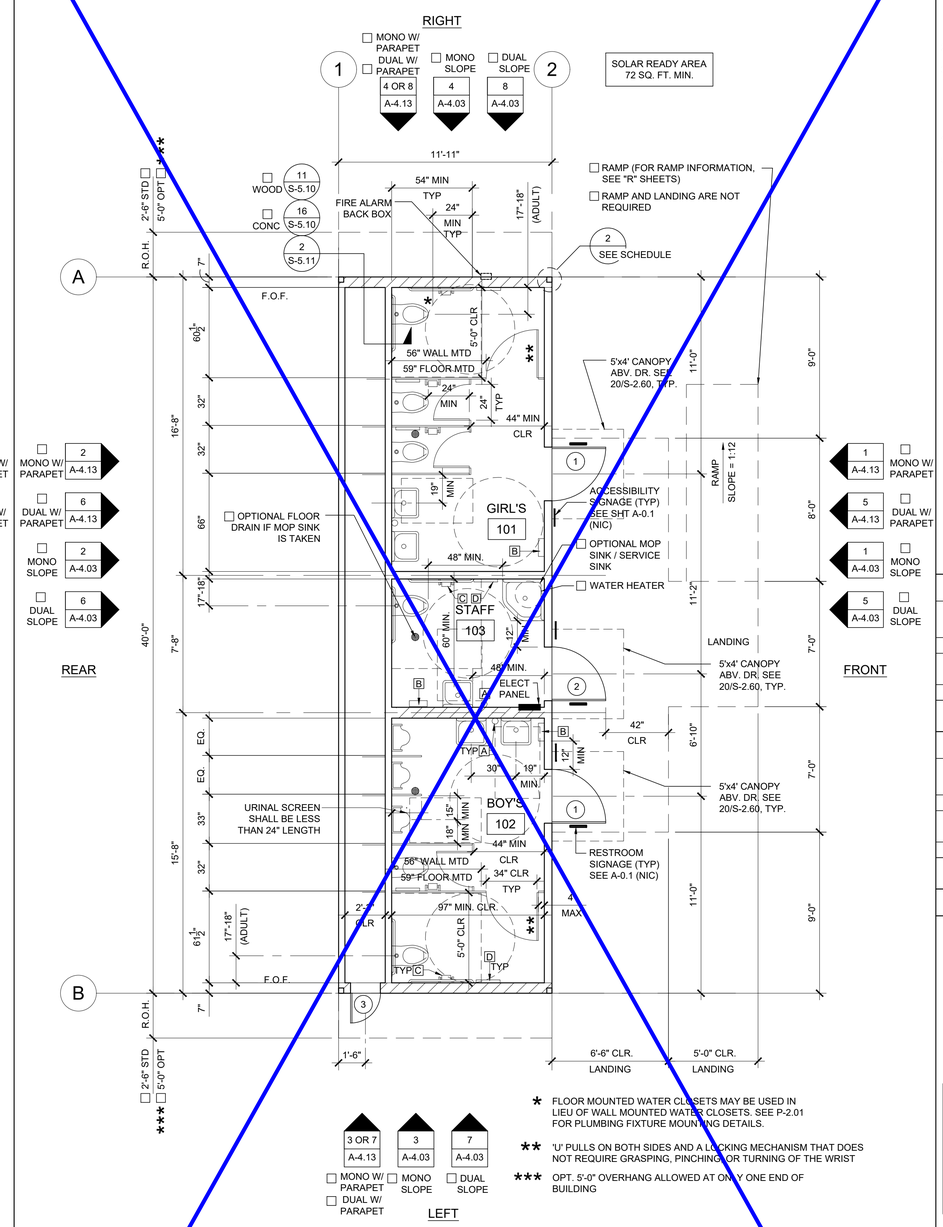

* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS. SEE P-2.01 FOR PLUMBING FIXTURE MOUNTING DETAILS.

** 'U' PULLS ON BOTH SIDES AND A LOCKING MECHANISM THAT DOES NOT REQUIRE GRASPING, PINCHING, OR TURNING OF THE WRIST

*** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

SEE PROJECT SPECIFIC

FLOOR PLAN - MODEL B-2 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" | 2




* FLOOR MOUNTED WATER CLOSETS MAY BE USED IN LIEU OF WALL MOUNTED WATER CLOSETS. SEE P-2.01 FOR PLUMBING FIXTURE MOUNTING DETAILS.

** 'U' PULLS ON BOTH SIDES AND A LOCKING MECHANISM THAT DOES NOT REQUIRE GRASPING, PINCHING, OR TURNING OF THE WRIST

*** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING

FLOOR PLAN - MODEL B-1 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" | 1

## NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1 (4.1) (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = $S_S$ .
2. IF BUILDING IS TO BE RELOCATED, SEE RELOCATION SHEETS.
3. FOR BUILDINGS THAT ARE MANUFACTURED IN-PLANT, THE IN-PLANT INSPECTOR IS TO ATTACH A VERIFIED REPORT INSIDE EACH BUILDING, WHICH SHALL INDICATE THE MANUFACTURER'S NAME AND THE SERIAL NUMBER FOR EACH BUILDING MODULE AS WELL AS THE DSA FILE AND APPLICATION NUMBES, PER IR 16-1.13 (2.1)
4. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
5. REQ. LOCATION OF LAV. TO BE 19" MIN. FROM FACE OF FIN. OF WALL WHEN ACCESSORIES (PAPER TOWEL DISP., ELECTRIC HAND DRYERS, ETC.) HAVING A 4" PROJECTION ARE TO BE INSTALLED, SO AS NOT TO ENCROACH INTO THE 30" x 48" CLEAR SPACE.

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☑ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☑ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## WALL LEGEND

NOMINAL 4" WALL STUD ☑

NOMINAL 6" WALL STUD ☑

NOMINAL 8" WALL STUD ☐

A WINDOW PER SCHEDULE SHEET A-0.2

\# DOOR PER SCHEDULE SHEET A-0.2

NOTE:
2x4 WALL FRAMING NOT ALLOWED WITH PLASTER WALL FINISH WITH WALLS OVER 9'-0" IN HEIGHT.

THIS PLAN MAY INCLUDE THE VARIOUS EXERCISABLE OPTIONS APPLICABLE TO THE PC SUCH AS PARTITION WALLS, PLUMBING, ETC. FOR REFERENCE PURPOSES. OPTIONS CAN BE APPLIED AS REQUIRED TO THE PC'S BUILDING SIZES.

## SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

## TOILET ACCESSORIES

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION

B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED SHALL BE MOUNTED SUCH THAT THE BOTTOM OF THE ACCESSORY IS NOT MORE THAN 27" AFF. 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE

C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

D TOILET SEAT DISPENSER: SURFACE MOUNTED
ACCESSORY NOTE:
TOILET ACCESSORIES (NIC) SEE SHEET P-2.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# FLOOR PLAN
# 12' x 40' - MODEL B-1
# 12' x 40' - MODEL B-2
# ADULT HEIGHT

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

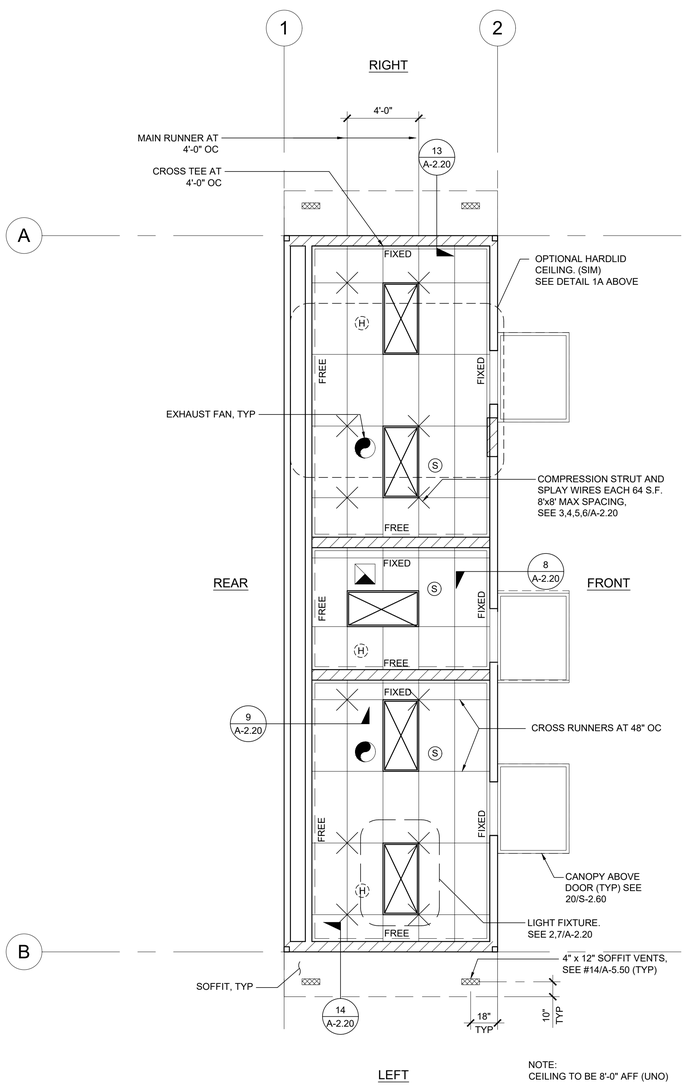
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUP
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

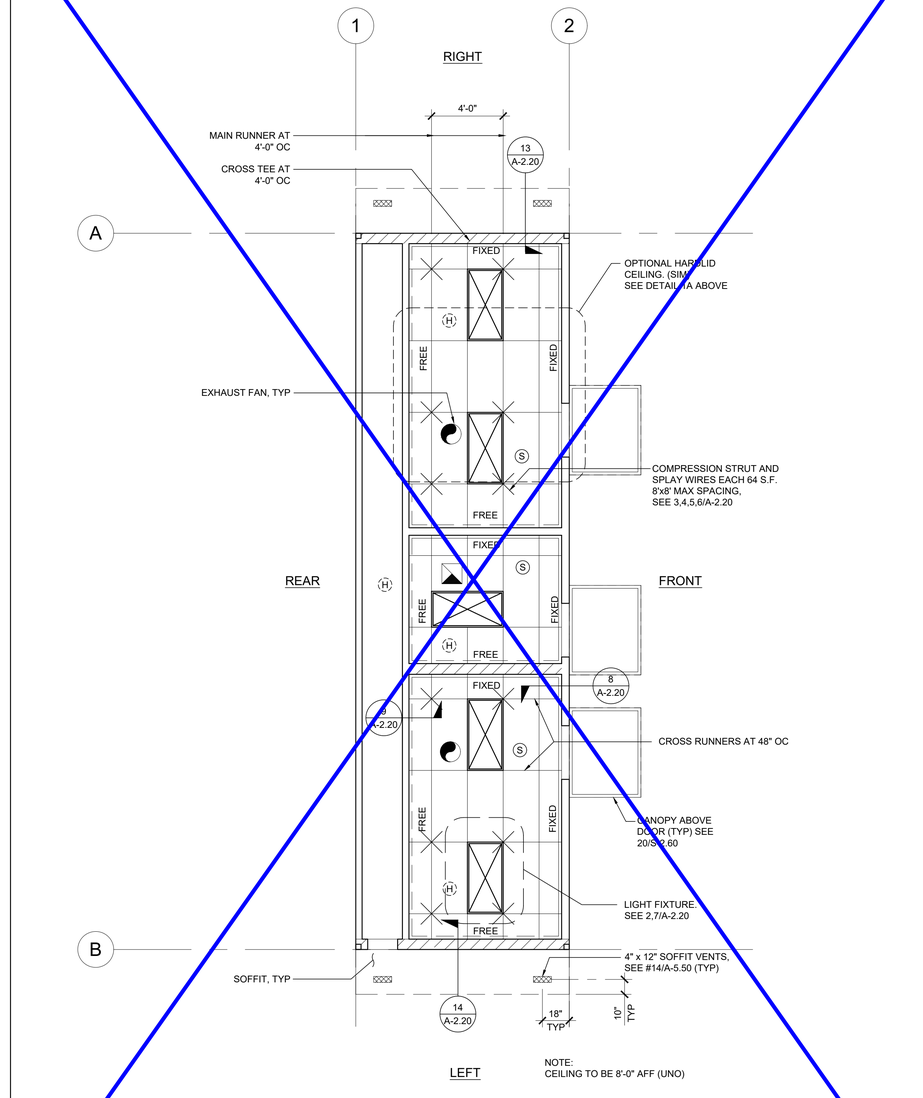
P.C. SHEET NUMBER

A-1.02

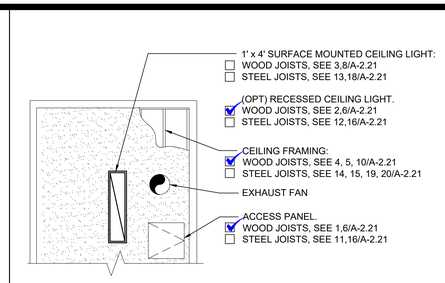



SEE PROJECT SPECIFIC

REFLECTED CEILING PLAN - MODEL B-2 SCALE: 1/4" = 1' - 0" 2




REFLECTED CEILING PLAN - MODEL B-1 SCALE: 1/4" = 1' - 0" 1




HARD LID CEILING (OPTIONAL) SCALE: 1/4" = 1'-0" 1A

## LEGEND

- T-BAR CEILING
- FIELD INSTALLED PANEL AT MODULE LINE
- 2' x 4' RECESSED LIGHT FIXTURE, HATCHING DENOTES EMERGENCY LIGHT FIXTURE (SEE ELECTRICAL PLAN)
- "OPTIONAL" 1' x 4' RECESSED LIGHT FIXTURE
- SPLAY WIRE
- CEILING EXHAUST FAN
- OS — CEILING MOUNTED OCCUPANCY SENSOR
- PC — CEILING MOUNTED PHOTOCELL
- S — CEILING MOUNTED SMOKE DETECTOR
- H — ATTIC MOUNTED HEAT DETECTOR

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

## T-BAR SCHEDULE

ARMSTRONG PART NUMBERS ICC-ES ESR-1308

MAIN RUNNER: 7301
4' CROSS TEE: XL7341
2' CROSS TEE: XL7328

STANDARD 7/8" WALL ANGLE WITH BERC-2 CLIP (ICC #ESR-1308) 2" WALL ANGLE: 7810 (OPTIONAL)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# REFLECTED CEILING PLAN
## 12'x40' MODEL B-1 OR B-2

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

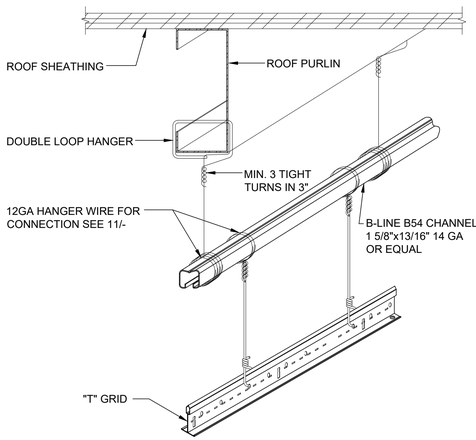
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARUCH 2475 STRUCTURAL STATE OF CALIFORNIA

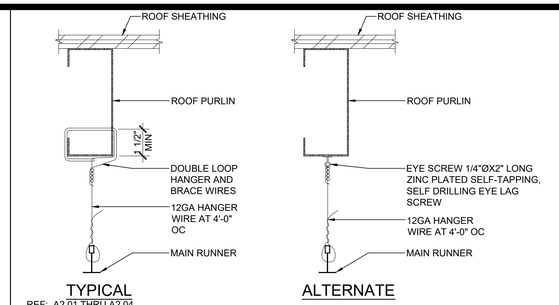
SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-2.02 |



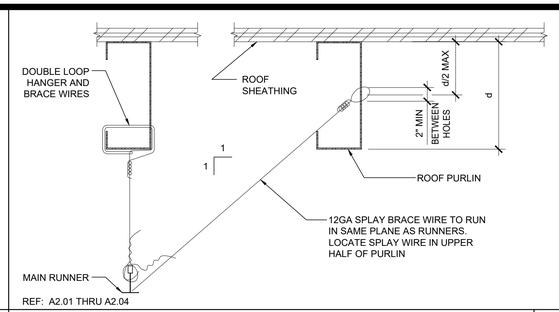

NOTE:
LOCATION MAY VARY (SEE NOTE "C" ON SHEET A-0.1)

## TRAPEZE DETAIL 17




REF: A2.01 THRU A2.04

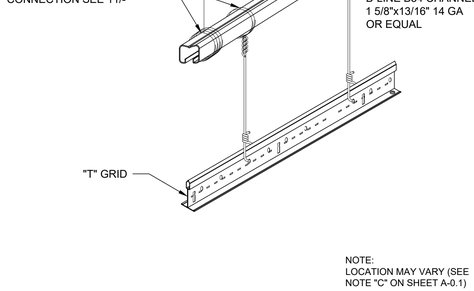
## HANGER WIRE DETAIL SCALE : 3"=1'-0" 11




REF: A2.01 THRU A2.04

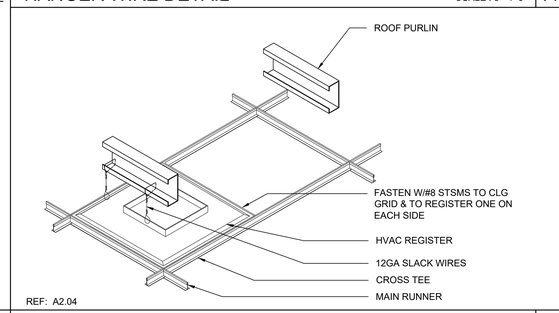
## SPLAY BRACING WIRE SCALE : 3"=1'-0" 6

## NOT USED 1



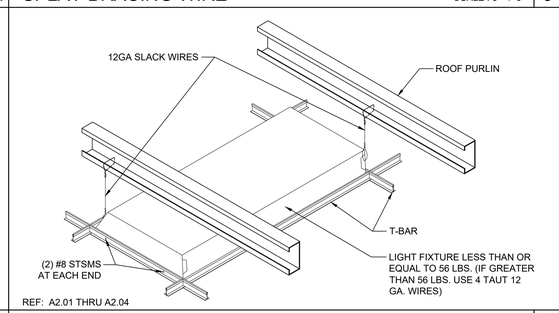

NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED ON FREE SIDES
REF: A2.01 THRU A2.04

## FIXED SIDE SCALE : NTS 18



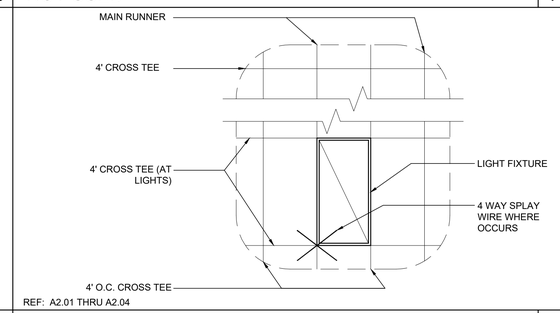

REF: A2.04

## HVAC REGISTER MOUNTING SCALE : NTS 12



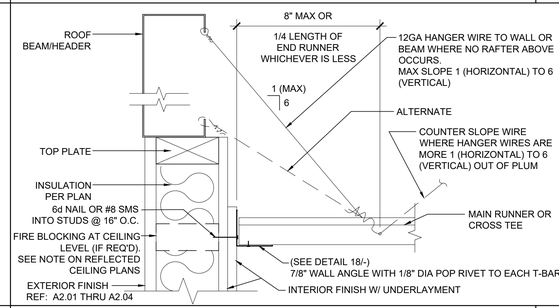

REF: A2.01 THRU A2.04

## LIGHT FIXTURE MOUNTING SCALE : NTS 7



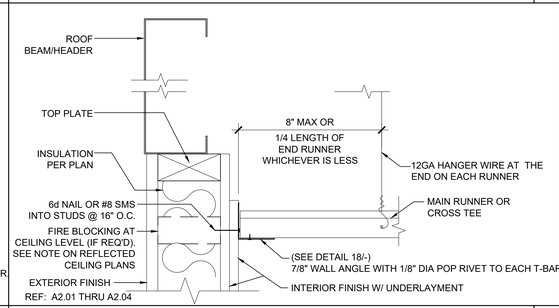

REF: A2.01 THRU A2.04

## 4' CROSS TEE AT LIGHTS SCALE : 3/8"=1'-0" 2



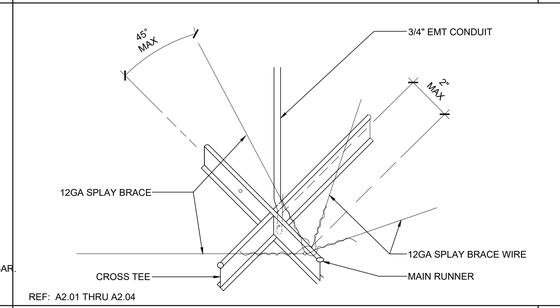

REF: A2.01 THRU A2.04

## HANGER WIRE - FIXED SIDE (ENDWALL) SCALE : 3"=1'-0" 13



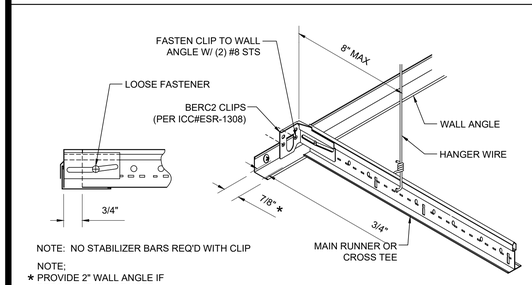

REF: A2.01 THRU A2.04

## HANGER WIRE - FIXED SIDE (SIDEWALL) SCALE : 3"=1'-0" 8




REF: A2.01 THRU A2.04

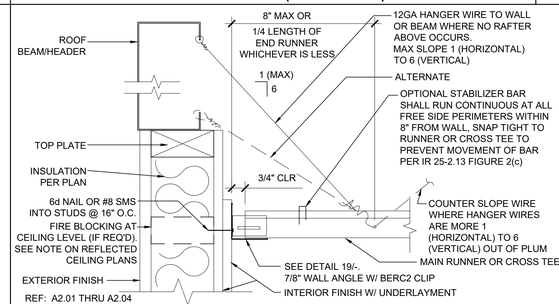
## SEISMIC SPLAY - 4 WAY SCALE : NTS 3




NOTE: NO STABILIZER BARS REQ'D WITH CLIP

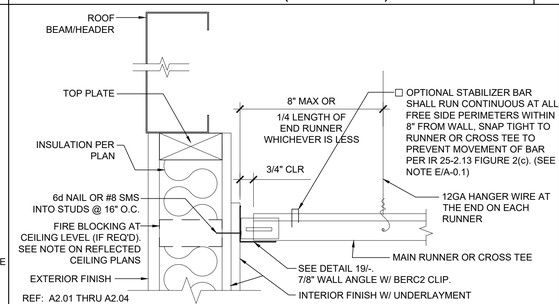
NOTE;
* PROVIDE 2" WALL ANGLE IF BERC2 CLIP IS NOT USED
REF: A2.01 THRU A2.04

## FREE SIDE SCALE : NTS 19



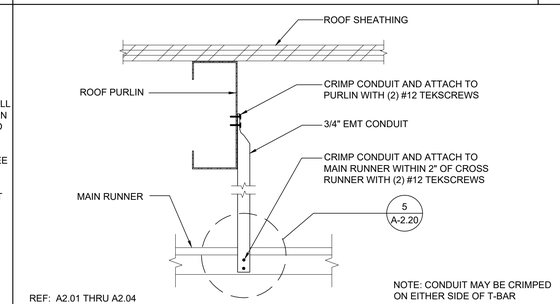

REF: A2.01 THRU A2.04

## HANGER WIRE - FREE SIDE (ENDWALL) SCALE : 3"=1'-0" 14




REF: A2.01 THRU A2.04

## HANGER WIRE - FREE SIDE (SIDEWALL) SCALE : 3"=1'-0" 9



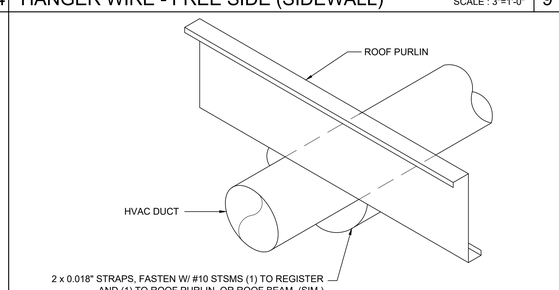

NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR

REF: A2.01 THRU A2.04

## COMPRESSION STRUT SCALE : 3"=1'-0" 4

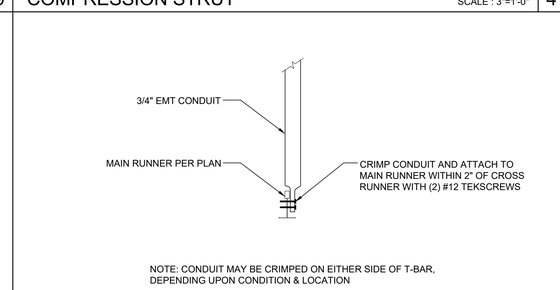
## NOT USED 20

## NOT USED 15




REF: MECHANICAL SHEETS

## HVAC DUCTWORK MOUNTING SCALE: NTS 10




NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

REF: A2.01 THRU A2.04

## COMPRESSION STRUT SCALE : 3"=1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# CEILING DETAILS T-GRID

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

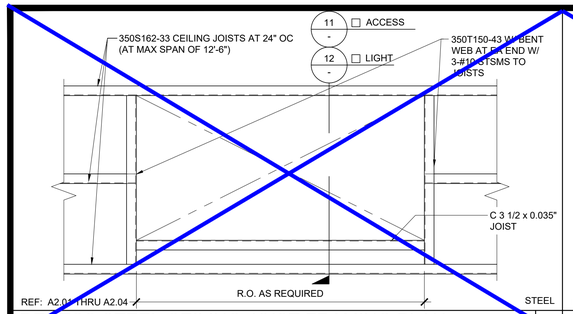
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24175
STRUCTURAL
STATE OF CALIFORNIA

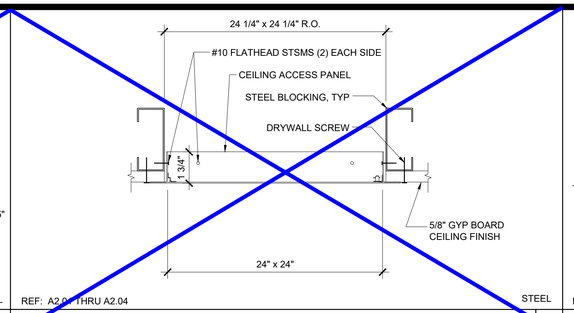
SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

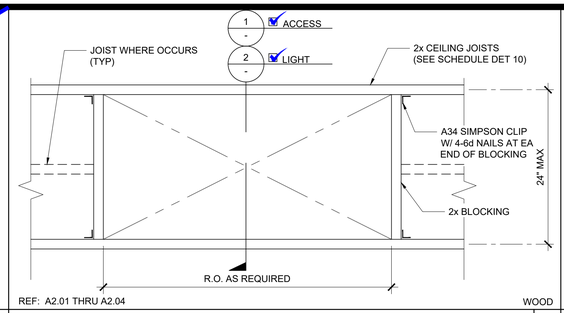
P.C. SHEET NUMBER
A-2.20



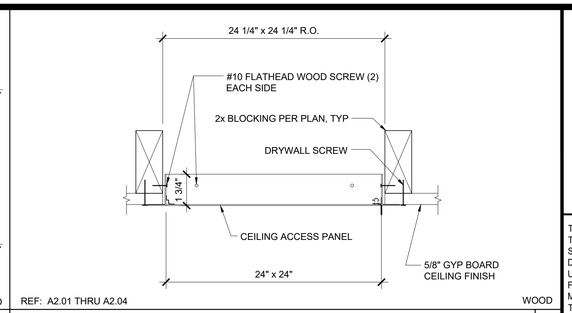

RECESS STEEL CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" 16




CEILING ACCESS PANEL - STEEL SCALE : 3" = 1'-0" 11

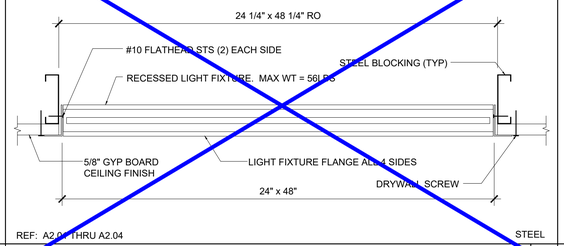



RECESS WOOD CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" 6



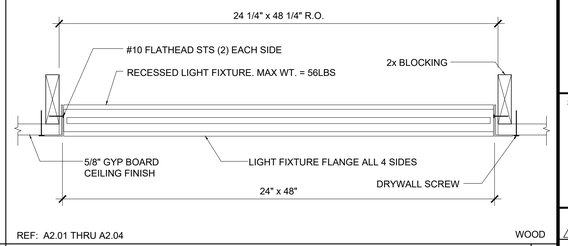

CEILING ACCESS PANEL SCALE : 3" = 1'-0" 1

NOT USED 17

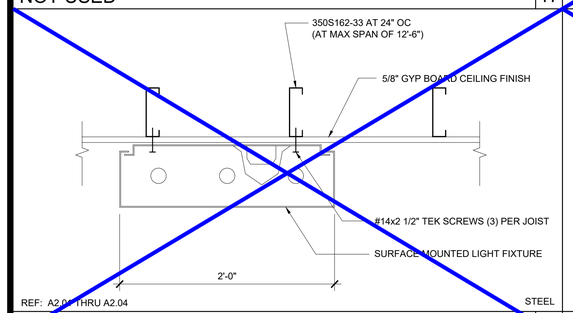



RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" 12

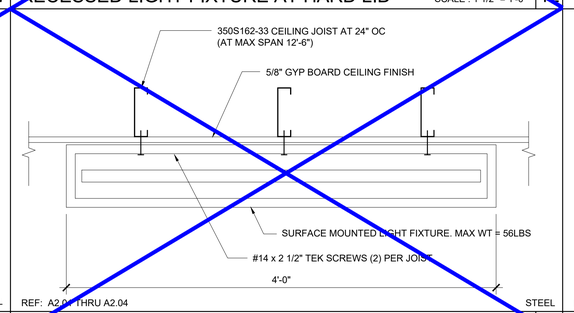
NOT USED 7



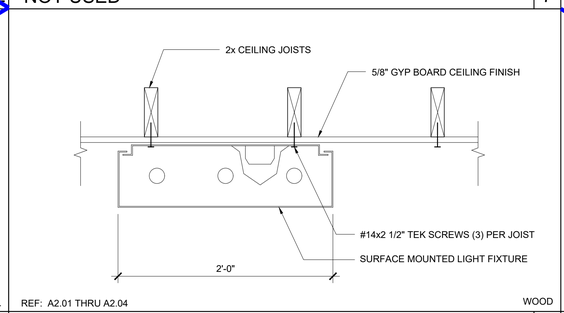

RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" 2



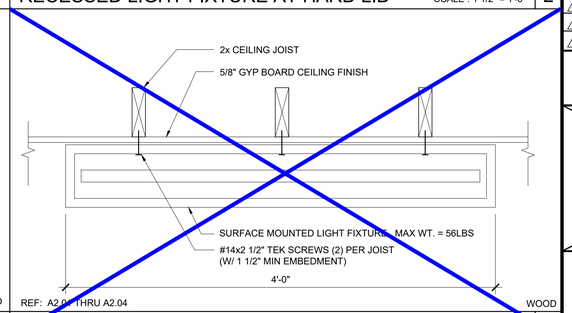

SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" 18



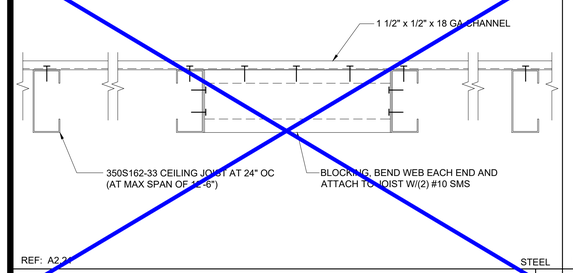

SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" 13



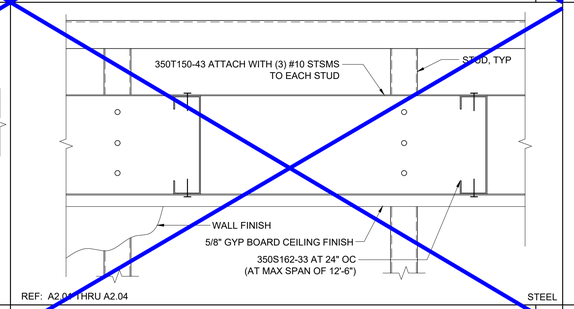

SURFACE MOUNTED LIGHT - PARALLEL JOISTS SCALE : 1 1/2" = 1'-0" 8




SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" 3

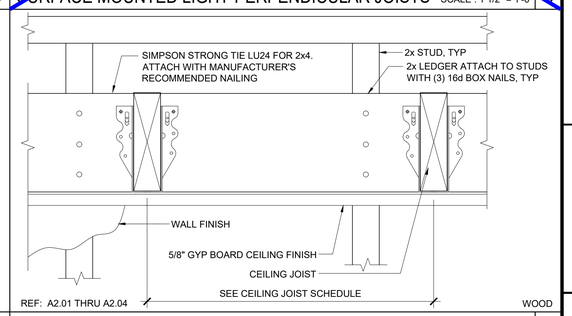



CEILING JOIST BLOCKING - STEEL SCALE : 3" = 1'-0" 19

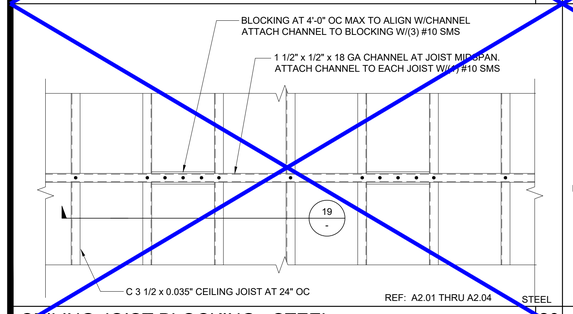



HARD LID CEILING CONNECTION - STEEL SCALE : 3" = 1'-0" 14

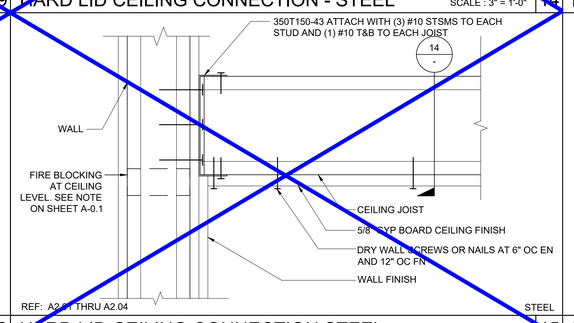
NOT USED 9




HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" 4




CEILING JOIST BLOCKING - STEEL SCALE : 1" = 1'-0" 20



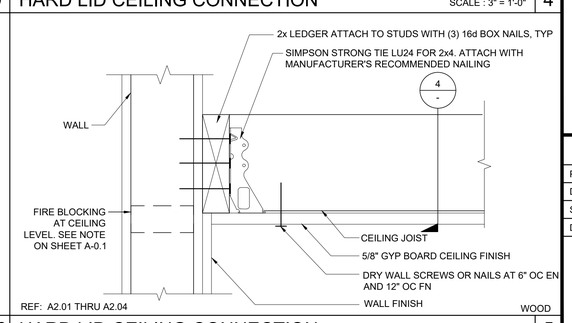

HARD LID CEILING CONNECTION STEEL SCALE : 3" = 1'-0" 15

2X4 JOIST TABLE - MAX SPAN

| SPACING | HEMFIR STUD | HEMFIR NO 2 | HEMFIR NO 1 | DFL STUD | DFL NO. 2 |
|---|---|---|---|---|---|
| 12" OC | 11' - 3" | 11' - 7" | 12' - 2" | 11' - 10" | 12' - 5" |
| 16" OC | 10' - 3" | 10' - 6" | 11' - 0" | 10' - 9" | 11' - 3" |
| 24" OC | 8' - 11" | 9' - 2" | 9' - 8" | 9' - 5" | 9' - 10" |
| | | | | | |

REF: A2.01 THRU A2.04

WOOD CEILING JOIST SCHEDULE SCALE : NTS 10




HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" 5

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PROJECT NAME:

SHEET TITLE:

# CEILING DETAILS
## HARD LID

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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

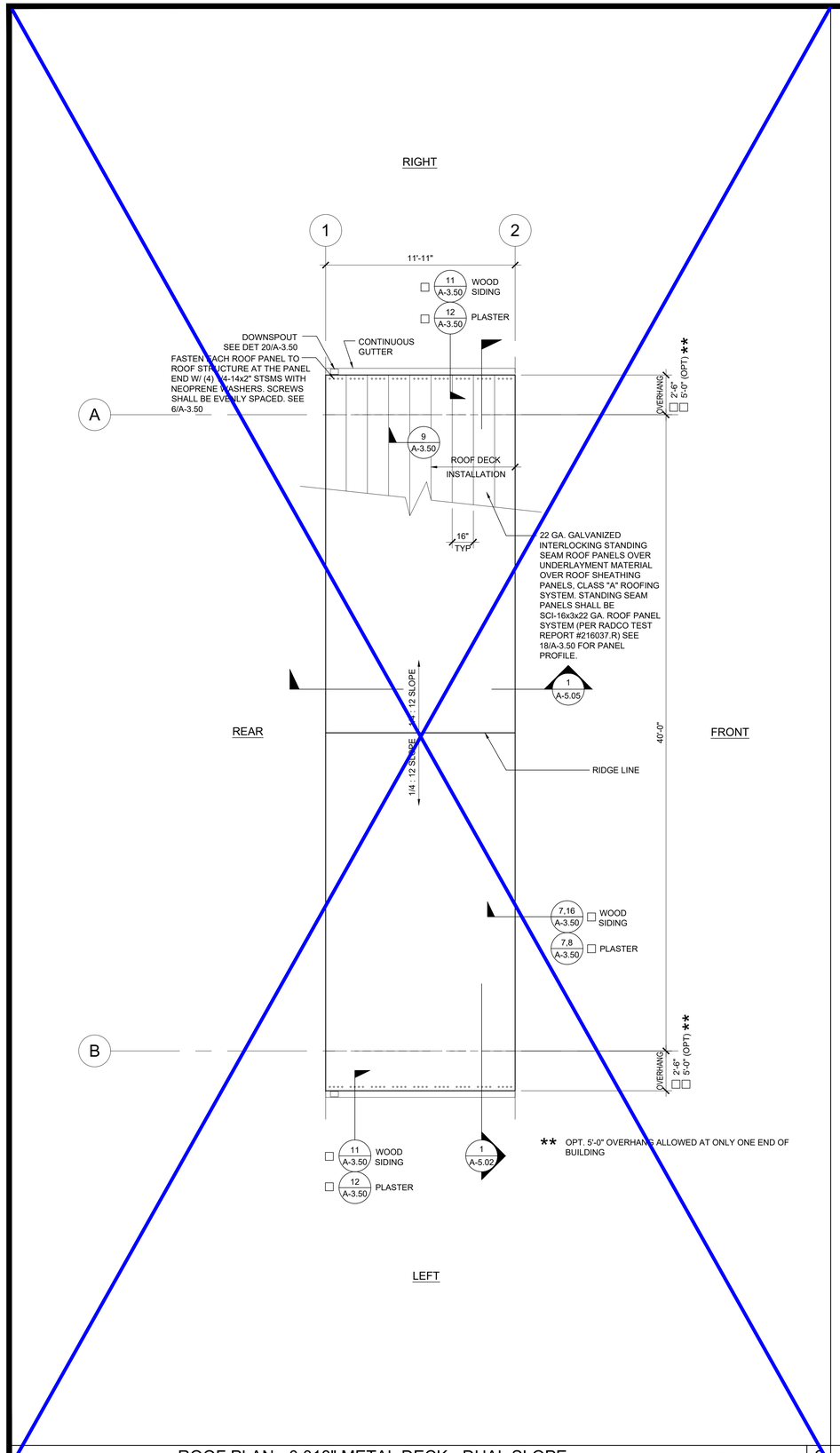
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLA
2375
STRUCTURAL
STATE OF CALIFORNIA

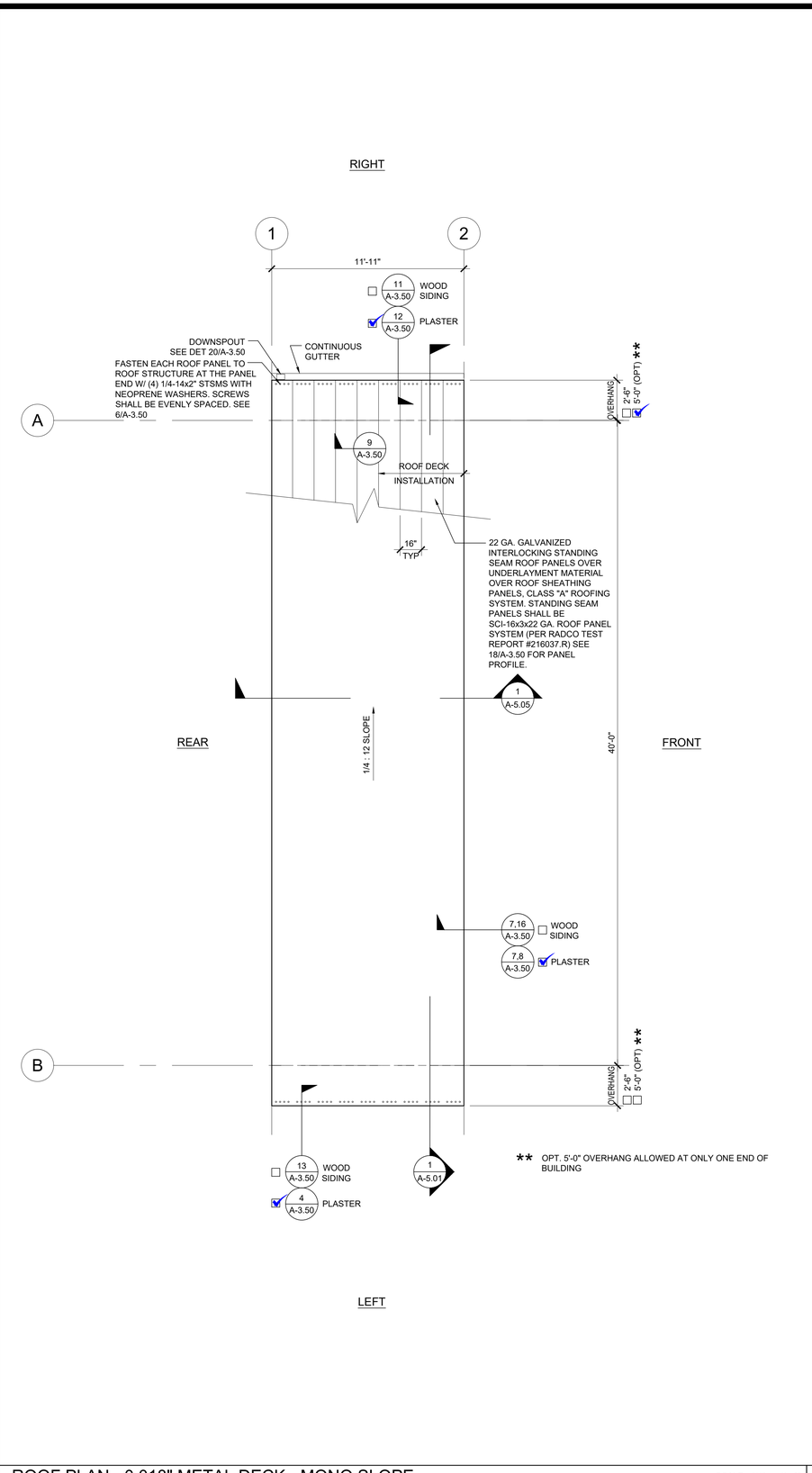
SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-2.21




ROOF PLAN - 0.018" METAL DECK - DUAL SLOPE SCALE: 1/4" = 1' - 0" 2

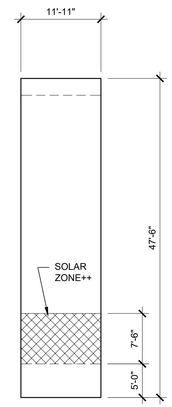



ROOF PLAN - 0.018" METAL DECK - MONO SLOPE SCALE: 1/4" = 1' - 0" 1

## NOTES

1. BUILDINGS SHALL HAVE ROOF COVERINGS AS SPECIFIED IN CBC TABLE 1505.1 - CLASS A.
2. LOCATIONS OF DRAFTSTOP AND/OR FULL HEIGHT PARTITIONS AS REQUIRED PER CBC-718.4.3 SHALL BE SHOWN ON PROJECT SPECIFIC PLANS LOCATED AT MODULE LINES.
3. ALL ROOFTOP EQUIPMENT THAT REQUIRES SERVICE & ROOF ACCESS HATCHES MUST BE A MIN. OF 10'-0" AWAY FROM ALL ROOF EDGES TO OPENING EDGES. OR A GUARDRAIL SHALL BE PROVIDED PER 7/S-2.60
4. SEE DETAIL "A" (THIS SHEET) FOR ROOF SYSTEM UPLIFT CAPACITY

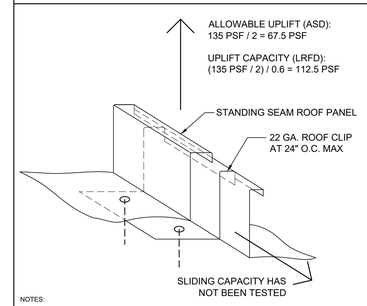
## SOLAR ZONE




KEYPLAN

| SOLAR ZONE CALCULATION TABLE | | |
|---|---|---|
| BUILDING SIZE | REQUIRED SOLAR ZONE | PROVIDED SOLAR ZONE |
| 12'-0" x 40'-0" | 86 SF | 89 SF |

++NOTE: ACTUAL SOLAR ZONE LOCATION AND SIZE MAY VARY. MINIMUM ZONE AREA SHALL BE PER THE TABLE ABOVE.




NOTES:

1. THE ALLOWABLE UPLIFT VALUES PROVIDED ABOVE ARE BASED ON TESTING PERFORMED IN ACCORDANCE WITH UL STANDARD 1897 (UPLIFT TEST FOR ROOF COVERING SYSTEM).

   TEST REPORT:
   TI RADCO (RADCO, A TWINING COMPANY)
   REPORT # 216037.R
   DATE: 6.22.2021

2. THE ULTIMATE LOAD DETERMINED BY TESTING = 135 PSF.
   A SAFETY FACTOR OF 2.0 HAS BEEN USED IN CALCULATING THE ALLOWABLE VALUES.
3. PV PANEL ATTACHMENT OPTION IS NOT INCLUDED WITHIN THIS PC.
4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF PV PANELS ARE INSTALLED THE SLIDING CAPACITY OF THE ROOF PANEL SYSTEM MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES OF NOT LESS THAN 7 DEGREES.
   EXCEPTION: WHERE THE SLIDING LOAD FOR SEISMIC AND WIND FORCES ON THE PV PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER DSA IR 16-8 (SECTION 5.1.1.2).
5. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) IS BASED ON ASD WIND PRESSURE = 0.6 x (LFRD WIND PRESSURE).

ROOF SYSTEM CAPACITY SCALE: NTS A

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PROJECT NAME:

SHEET TITLE:

# ROOF PLAN
## 12'x40' - METAL DECK
## MONO OR DUAL SLOPE

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1
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3
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5

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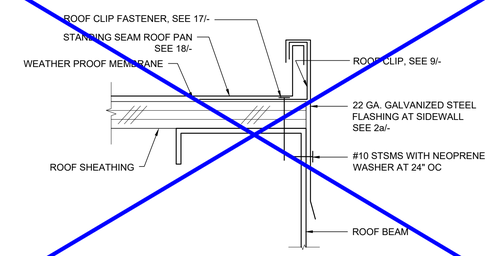
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2875 STRUCTURAL STATE OF CALIFORNIA

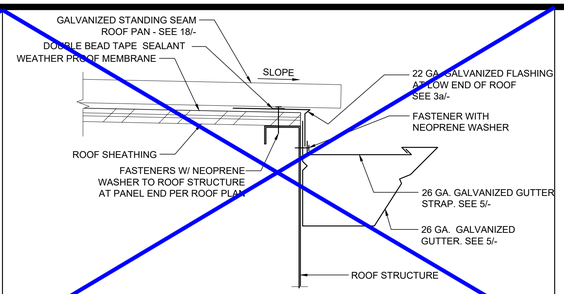
SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-3.01 |



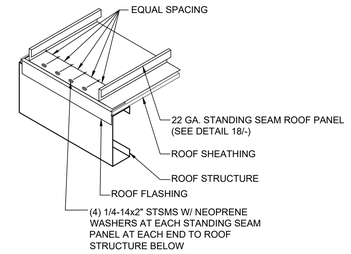

REF: A3.01

ROOF FLASHING AT SIDEWALL SCALE : 6"=1'-0" 16




REF: A3.01

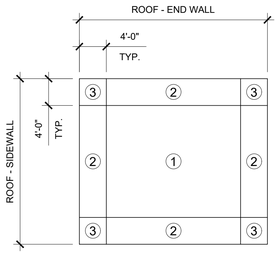
GUTTER AT ROOF FASCIA BEAM SCALE : 3"=1'-0" 11




STANDING SEAM PANEL AT ENDS SCALE : NTS 6

NOT USED 1a

NOT USED 1b

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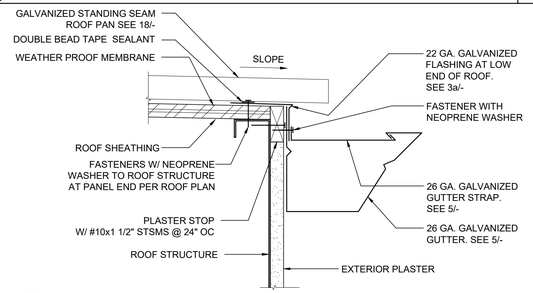
ROOF CLIP ZONES NTS 17

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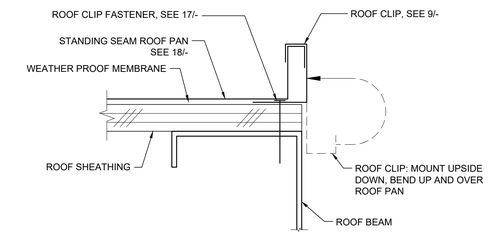
GUTTER AT ROOF FASCIA BEAM SCALE : 3"=1'-0" 12

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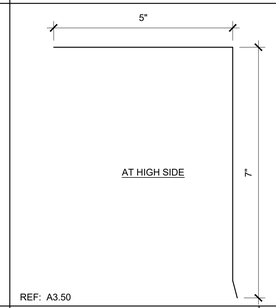
STARTER ROOF PAN CONNECTION SCALE : 6"=1'-0" 7

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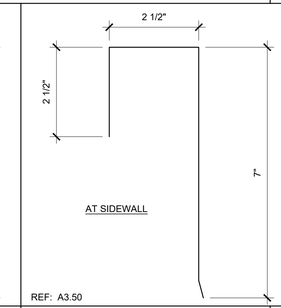
ROOF FLASHING SCALE : 6"=1'-0" 2b

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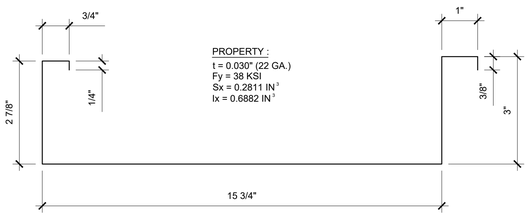
ROOF FLASHING SCALE : 6"=1'-0" 2a

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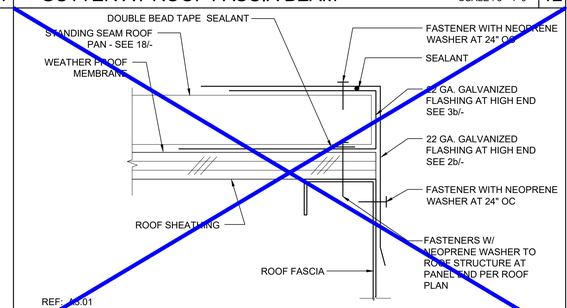
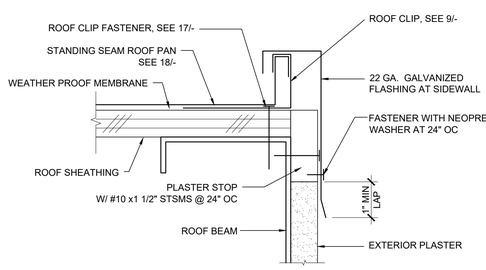
ROOF DECK PROFILE SCALE : NTS 18



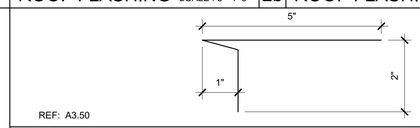

REF: A3.01

ROOF FLASHING AT HIGH SIDE SCALE : 6"=1'-0" 13



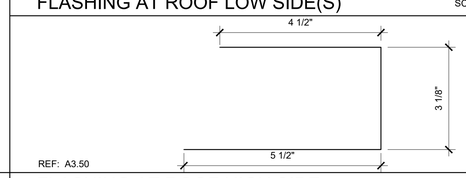

REF: A3.01

ROOF FLASHING AT SIDEWALL SCALE : 6"=1'-0" 8



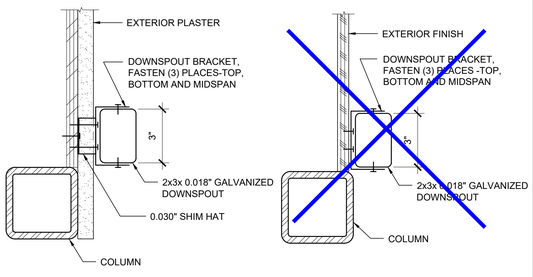

REF: A3.50

FLASHING AT ROOF LOW SIDE(S) SCALE : 6"=1'-0" 3a



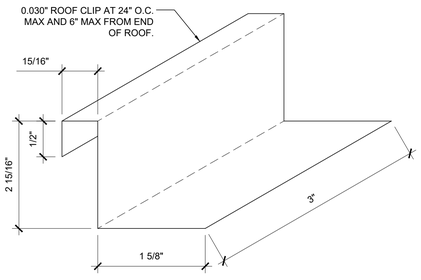

REF: A3.50

FLASHING AT ROOF HIGH SIDE SCALE : 6"=1'-0" 3b



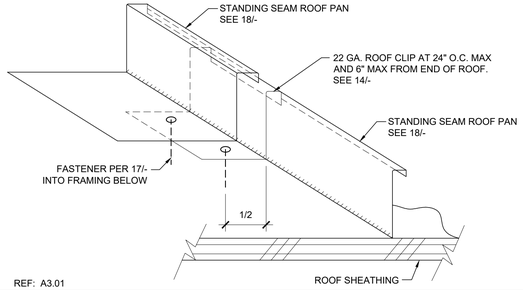

REF: A3.01

DOWNSPOUT ATTACHMENT SCALE : 3"=1'-0" 20



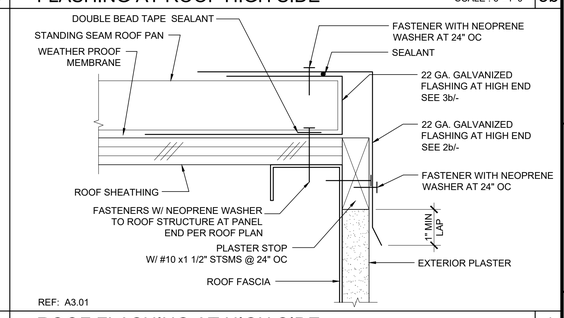

REF: A3.50

ROOF CLIP SCALE : 1'-0"=1'-0" 14



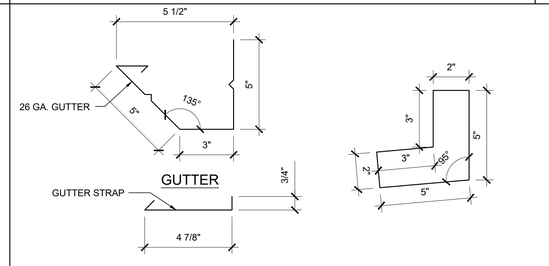

REF: A3.01

ROOF CLIP @ STANDING SEAM SCALE : NTS 9




REF: A3.01

ROOF FLASHING AT HIGH SIDE SCALE : 6"=1'-0" 4




REF: A3.50

GUTTER AND STRAP & DOWNSPOUT SCALE : 3"=1'-0" 5

NOT USED 19

NOT USED 15

NOT USED 10

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# ROOF DETAILS
## STANDING SEAM ROOF DECK

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2
3
4
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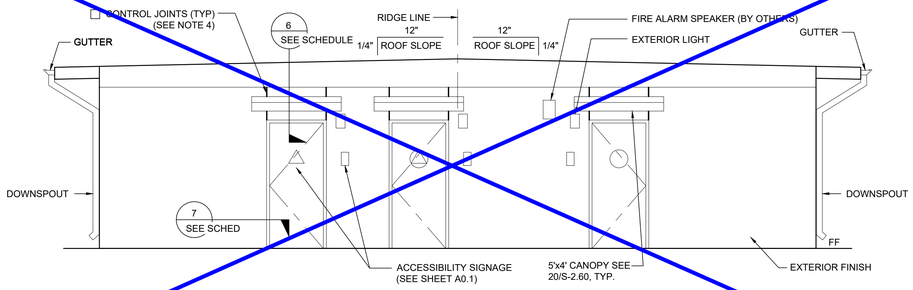
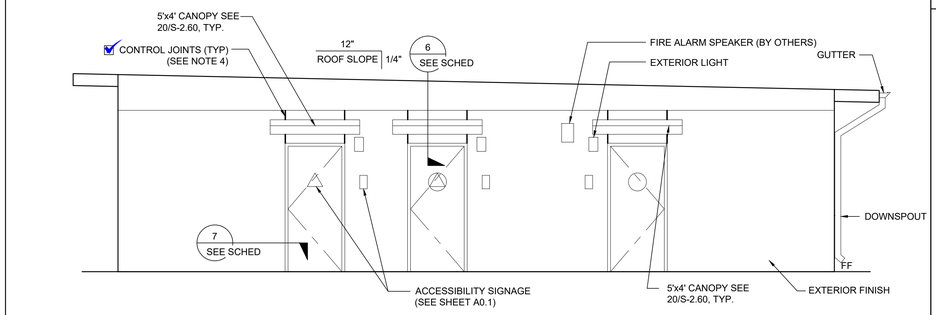
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-3.50 |

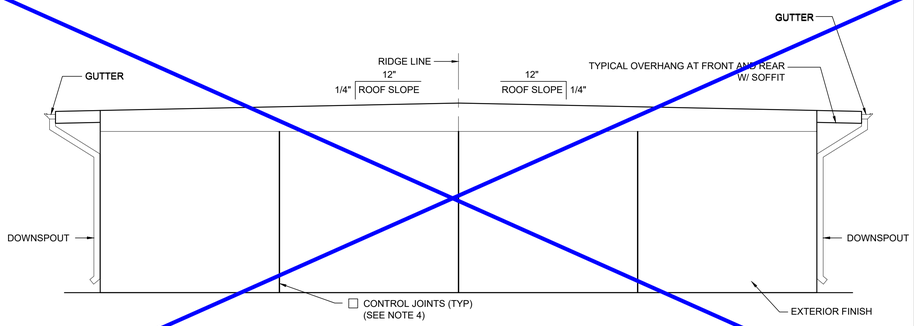



EXTERIOR ELEVATIONS - FRONT (MODEL B-2) - DUAL SLOPE SCALE: 1/4" = 1' - 0" 5

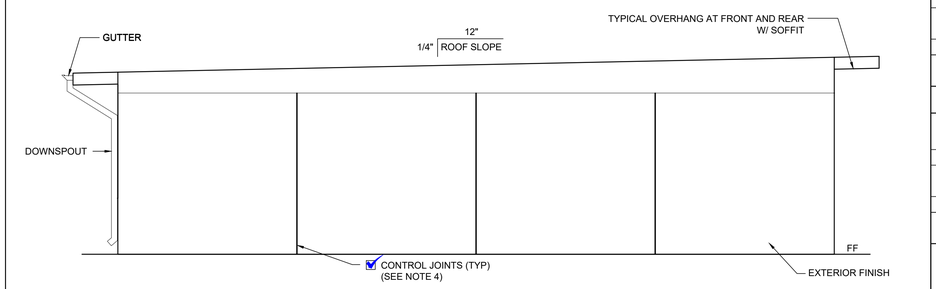



SEE PROJECT SPECIFIC

EXTERIOR ELEVATIONS - FRONT (MODEL B-2) - MONO SLOPE SCALE: 1/4" = 1' - 0" 1

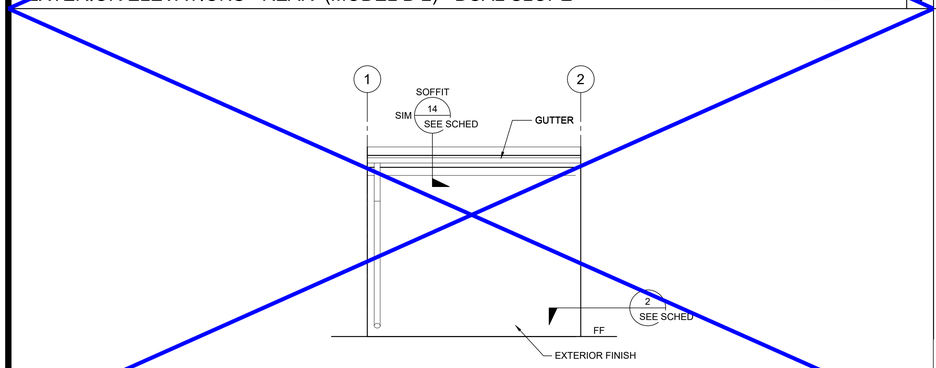



EXTERIOR ELEVATIONS - REAR (MODEL B-2) - DUAL SLOPE SCALE: 1/4" = 1' - 0" 6

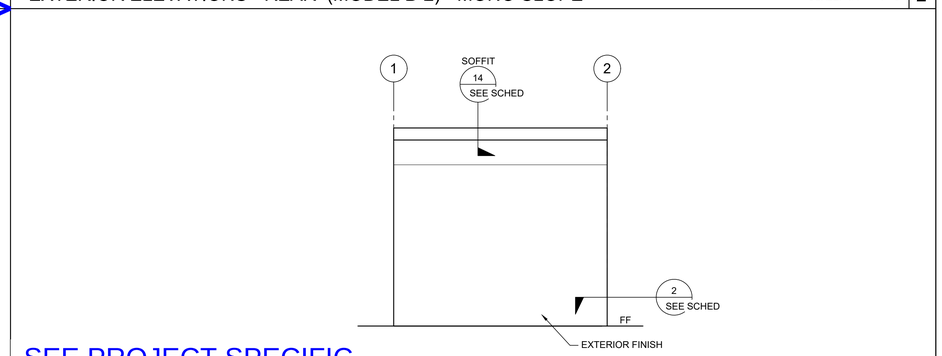



SEE PROJECT SPECIFIC

EXTERIOR ELEVATIONS - REAR (MODEL B-2) - MONO SLOPE SCALE: 1/4" = 1' - 0" 2

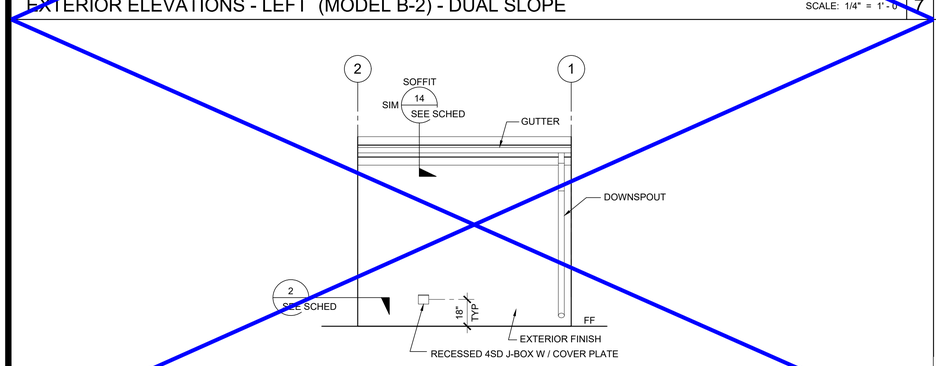



EXTERIOR ELEVATIONS - LEFT (MODEL B-2) - DUAL SLOPE SCALE: 1/4" = 1' - 0" 7

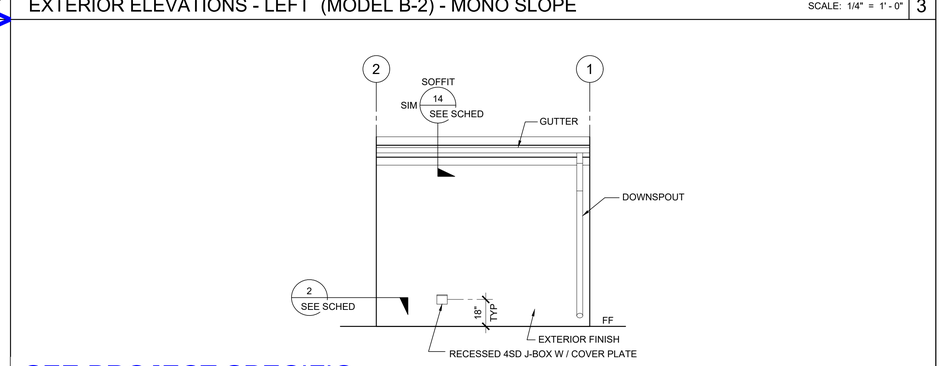



SEE PROJECT SPECIFIC

EXTERIOR ELEVATIONS - LEFT (MODEL B-2) - MONO SLOPE SCALE: 1/4" = 1' - 0" 3




EXTERIOR ELEVATIONS - RIGHT (MODEL B-2) - DUAL SLOPE SCALE: 1/4" = 1' - 0" 8




SEE PROJECT SPECIFIC

EXTERIOR ELEVATIONS - RIGHT (MODEL B-2) - MONO SLOPE SCALE: 1/4" = 1' - 0" 4

## NOTES (EXTERIOR ELEVATION)

1. PROVIDE PROTECTION RAIL AROUND HVAC UNIT(S) IF LOCATED IN A PEDESTRIAN WAY IF THE HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" (NIC). REFERENCE TO DET. # 2/A5.81 FOR WOOD STUDS, # 17/A5.81 FOR STEEL STUDS
2. RAMP (WHERE OCCURS), NOT SHOWN FOR CLARITY.
3. WALL BEYOND HANDRAIL SHALL NOT HAVE ANY SHARP OR ABRASIVE SURFACE ADJACENT TO HANDRAILS. (GRIND SMOOTH ALL METAL RAILING CONNECTIONS - SMOOTH SURFACE TO EXTEND 18" ABOVE HANDRAIL)
4. FOR PLASTER ONLY, PROVIDE CONTROL JOINT AT EACH MODLINE, ON END WALLS, 10'-0" OC AT SIDE WALLS, AND / OR ABOVE AND BELOW OPENINGS. WHERE FIRE RATED WALLS ARE REQUIRED, MATERIALS AND METHODS OF CONSTRUCTION USED TO PROTECT JOINTS WILL COMPLY WITH CBC SECTION 703.2 AND 705.
5. EXTERIOR PROJECTIONS SHALL COMPLY W/ SECTION 705 AND 1406, 2022 CBC
6. PROVIDE AN OFFSET RAMP (PER SHEET R-1.02) WHEN A RAMP IS REQUIRED ADJACENT TO A STUCCO WALL AND/OR FIRE RESISTANCE RATED EXTERIOR WALL.

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☑ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FIRE PROTECTION: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☑ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

NOTE:
MINIMUM FOUNDATION HEIGHT TO BE 18" IF THE BUILDING CARRIES UNDER FLOOR PLUMBING (MANIFOLDS)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# EXTERIOR ELEVATION
## 12' X 40' - MODEL B-2
## MONO / DUAL SLOPE

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
24175
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-4.04

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☑ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

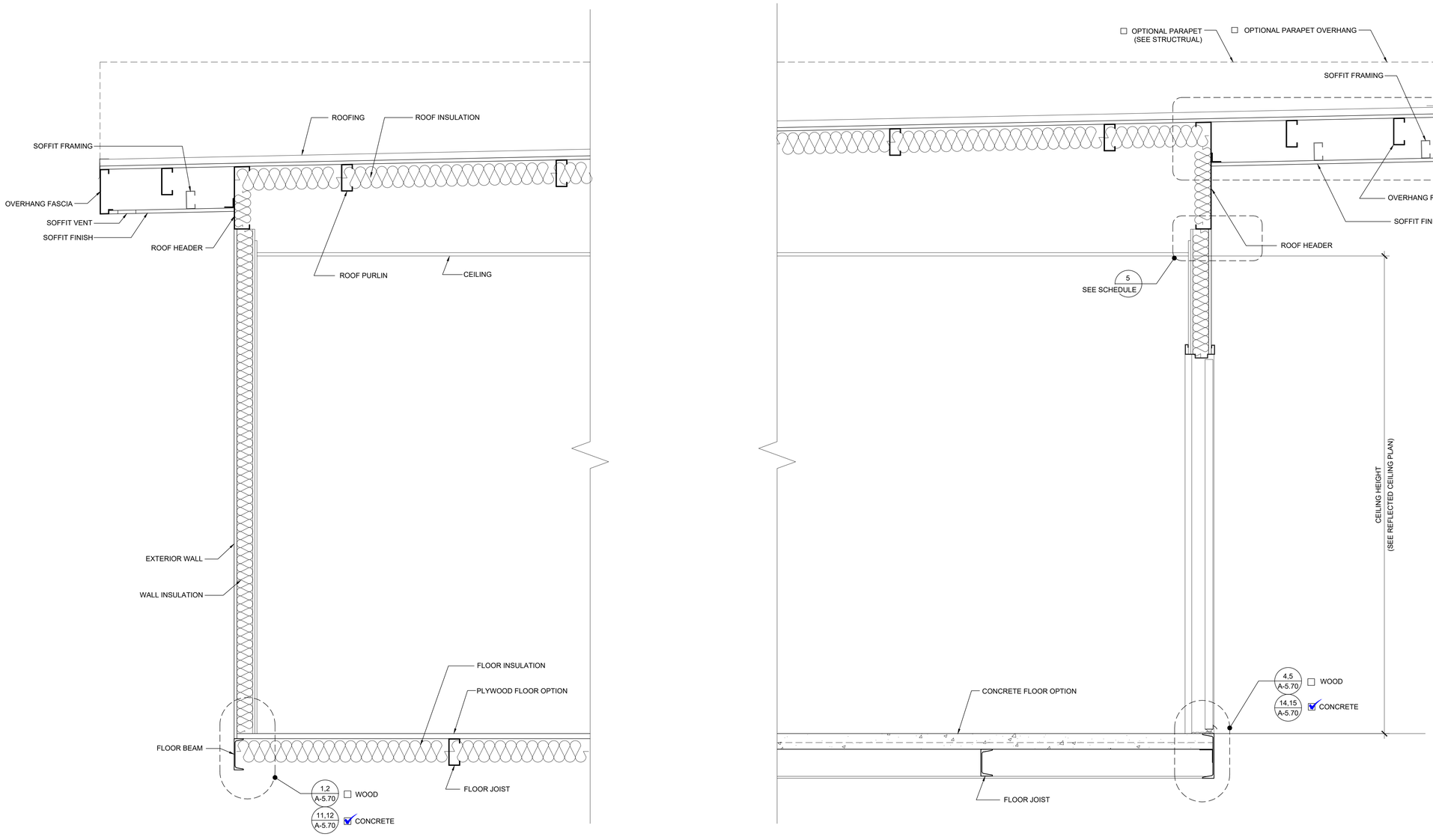
| FINISH: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☑ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## FLOOR OPTION

- ☐ WOOD FLOOR
- ☑ CONCRETE FLOOR

## NOTES

SEALANTS AND CAULKING:
GENERAL: FURNISH AND INSTALL ALL SEALANTS AND CAULKING AS REQUIRED TO PROVIDE A WEATHERTIGHT BUILDING AND TO LIMIT AIR LEAKAGE.
MATERIALS: SEALANT SHALL BE AN ACRYLIC LATEX OR SILICONE CAULKING.
APPLICATIONS: AT JOINTS WHERE SHOWN, APPLY SEALANT AS FOLLOWS - JOINTS SHALL BE CLEAN, DRY, AND FREE FROM DUST, WAX, AND FOREIGN MATERIALS. SEALANT SHALL BE APPLIED WITH A GUN IN A STRICT COMPLIANCE WITH MANUFACTURER'S DIRECTIONS. COMPLETELY FILL THE JOINT AND FIRMLY TOOL AGAINST THE BACKING, MAKING A SMOOTH CONVEX BEAD.
COLOR: COLOR OF MATERIAL SHALL MATCH THAT OF ADJACENT FINISHED SURFACES.
ALL EXTERIOR JOINTS, PENETRATIONS AND OTHER OPENINGS SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.




BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# CROSS SECTION
## MONO SLOPE

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUP
24175
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-5.01

## DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ SIDING OVER WOOD STUDS | A-5.50 |
| ☑ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.51 |
| ☐ SIDING OVER STEEL STUDS | A-5.60 |
| ☐ PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.61 |

## FIRE RATED DETAIL SCHEDULE

| FINISH: | SHEET #: |
|---|---|
| ☐ 1 HOUR - SIDING OVER WOOD STUDS | A-5.52 |
| ☑ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH WOOD STUDS | A-5.53 |
| ☐ 1 HOUR - SIDING OVER STEEL STUDS | A-5.62 |
| ☐ 1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY WITH STEEL STUDS | A-5.63 |

## FLOOR OPTION

- ☐ WOOD FLOOR
- ☑ CONCRETE FLOOR

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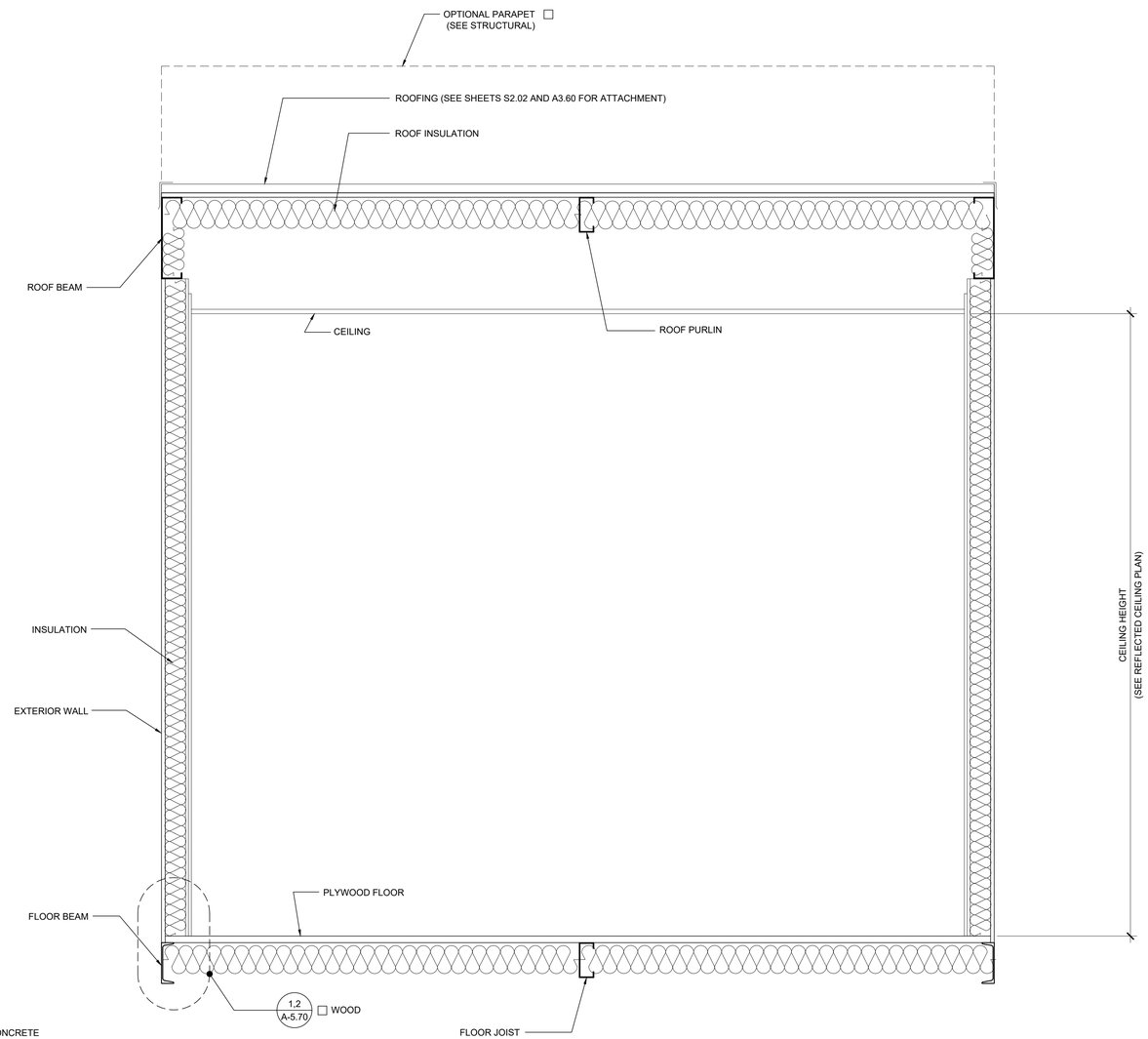
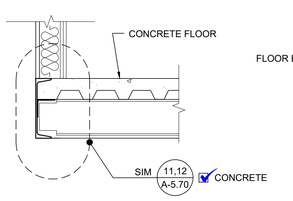



WOOD FLOOR OPTION




CONCRETE FLOOR OPTION

BUILDING SECTION

SCALE: 1" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
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PROJECT NAME:

SHEET TITLE:

# CROSS SECTION

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
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FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122800 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

A-5.05

NOT USED 16

NOT USED 17

NOT USED 18

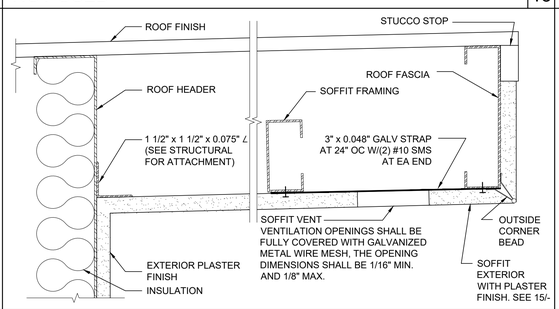
NOT USED 19

NOT USED 20

NOT USED 11

NOT USED 12

NOT USED 13



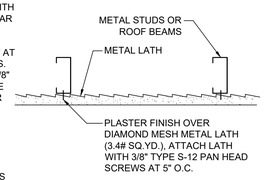

SOFFIT AT ROOF HEADER WITH VENT SCALE : 3" = 1'-0" 14

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

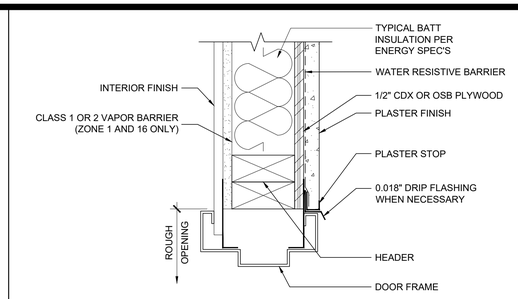
2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

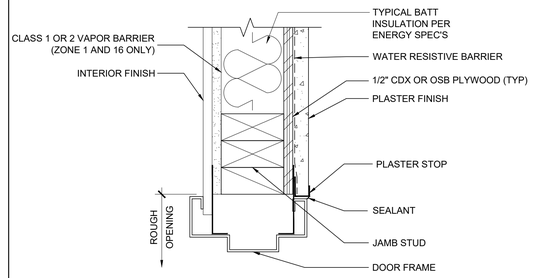
4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.



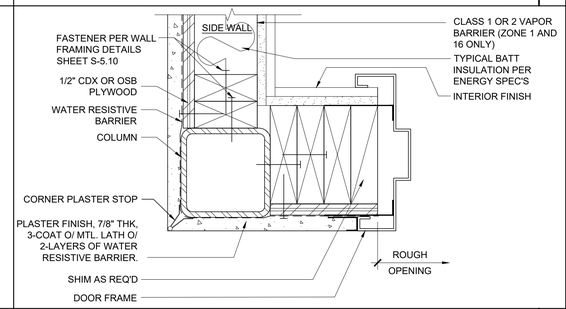

METAL LATH ATTACHMENT TO METAL JOIST SCALE : NTS 15



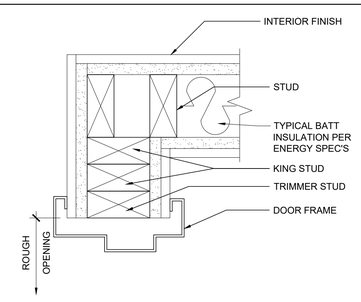

EXTERIOR DOOR HEADER SCALE : 3"=1'-0" 6



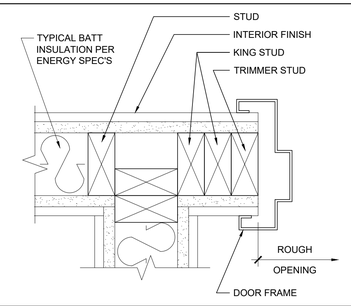

EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 7




EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 8

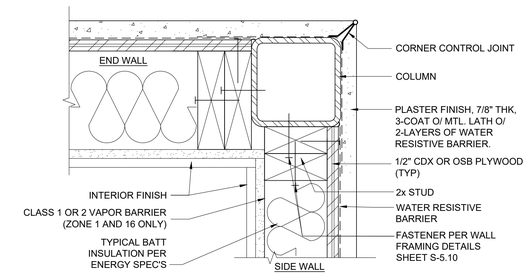



INTERIOR DOOR JAMB SCALE : 3"=1'-0" 9



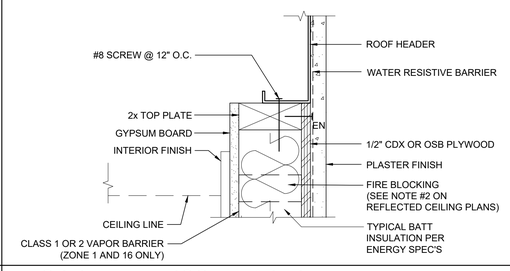

INTERIOR DOOR JAMBS SCALE : 3"=1'-0" 10

NOT USED 1




COLUMN AT CORNER SCALE : 3"=1'-0" 2

NOT USED 3




TOP PLATE AT ROOF HEADER SCALE : 3" = 1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## WOOD STUD - PLASTER

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-5.51

NOT USED 16

NOT USED 17

NOT USED 18

GA FILE No. WP 3510

GYPSUM WALLBOARD, WOOD STUDS

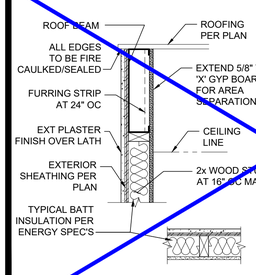
ONE LAYER 5/8" TYPE 'X' GYPSUM WALL BOARD APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915 SHANK, 1/4" HEADS, 7" OC.

JOINTS STAGGERED 24" ON OPPOSITE SIDES.

TYPICAL BATT INSULATION PER ENERGY SPEC'S

| | |
|---|---|
| THICKNESS: | 4-7/8" |
| APPROXIMATE WEIGHT: | 7 PSF |
| FIRE TEST: | UL R3501-47,-48,9-17-65, DESIGN U309; UL R1319-129, 7-22-70, DESIGN U314 |
| SOUND TEST: | NGC 2404, 10-14-70 |

1-HOUR INTERIOR ASSEMBLY #WP3510 SCALE: NTS 19




WOOD STUDS,
CEMENT PLASTER, GYPSUM WALLBOARD

EXTERIOR SIDE 15-1.3: 2x WOOD STUDS 16" OC WITH 7/8" CEMENT PLASTER OVER LATH OVER EXTERIOR SHEATHING SURFACE.

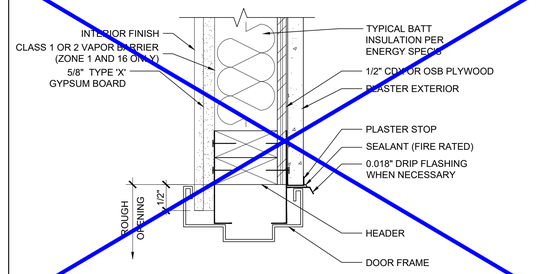
INTERIOR SIDE 14-1.3: ONE LAYER 5/8" TYPE 'X' GYPSUM WALLBOARD, OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO STUDS WITH 6d COATED NAILS, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS, 7" O.C. WITH END JOINTS ON NAILING MEMBERS.

JOINTS STAGGERED 24" ON EACH SIDE.

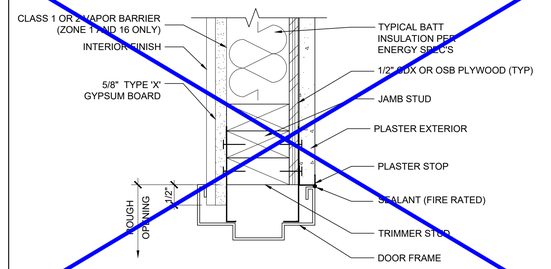
DESIGN PER
CBC - TABLE 721.1 (2)

1-HOUR EXTERIOR ASSEMBLY (STUCCO FINISH) SCALE: NTS 20

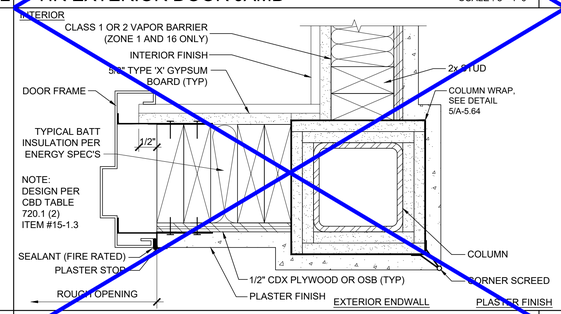
NOT USED 11



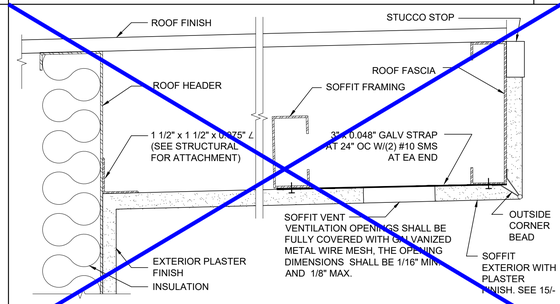

1 HR EXTERIOR DOOR HEADER SCALE : 3"=1'-0" 6




1 HR EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 7




1 HR EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 8



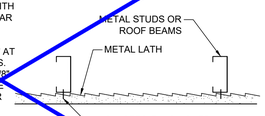

SOFFIT AT ROOF HEADER WITH VENT SCALE : 3" = 1'-0" 14

1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES AND ENDS, BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS, THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

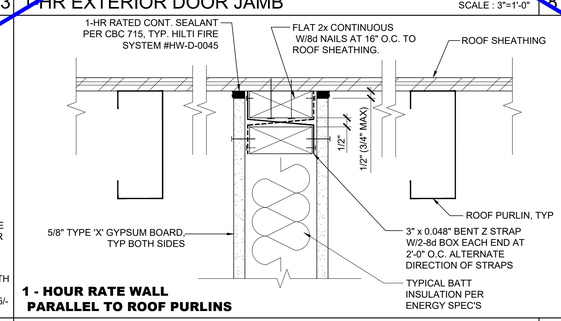
4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLANE.



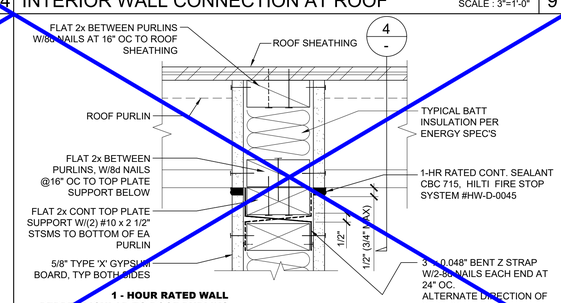

METAL LATH ATTACHMENT TO METAL JOIST SCALE : NTS 15

NOT USED 12

NOT USED 13

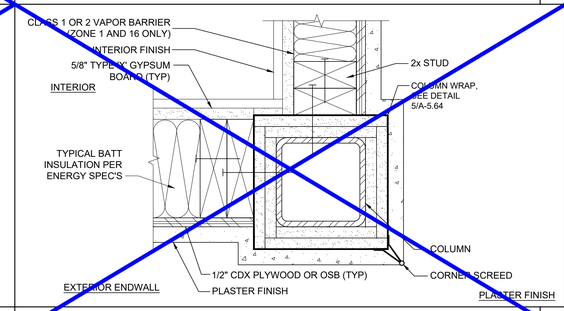



INTERIOR WALL CONNECTION AT ROOF SCALE : 3"=1'-0" 9



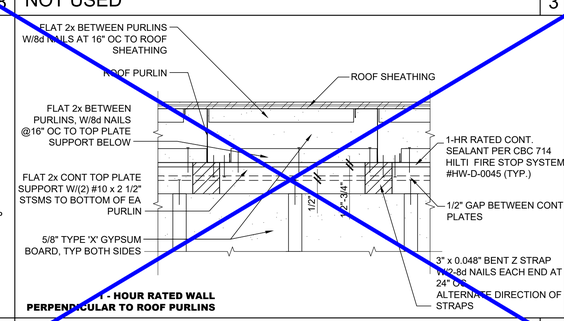

INTERIOR WALL CONNECTION AT ROOF SCALE : 3"=1'-0" 10

NOT USED 1

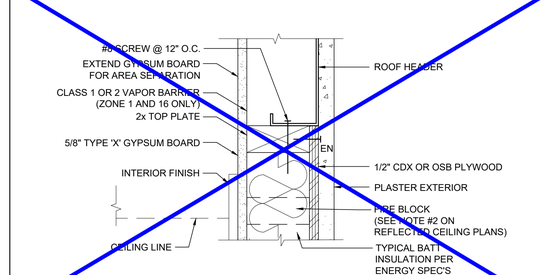



1 HOUR CORNER DETAIL SCALE : 3"=1'-0" 2

NOT USED 3




INTERIOR WALL CONNECTION AT ROOF SCALE : 3"=1'-0" 4




TOP PLATE AT ROOF HEADER SCALE : 3" = 1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS

## WOOD STUD - PLASTER 1-HOUR RATED

REVISIONS

1
2
3
4
5

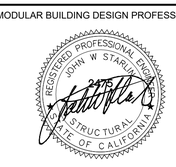
PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL



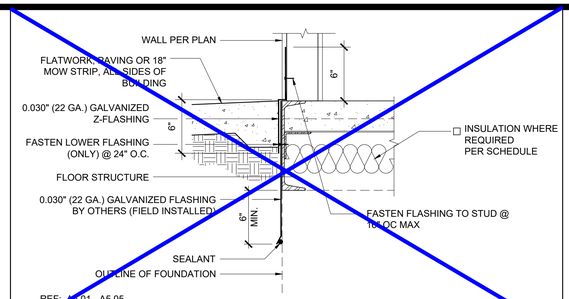

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

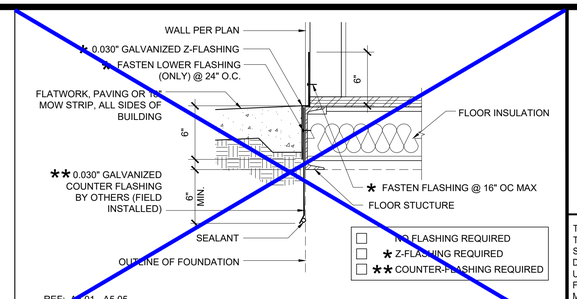
A-5.53

NOT USED | 16



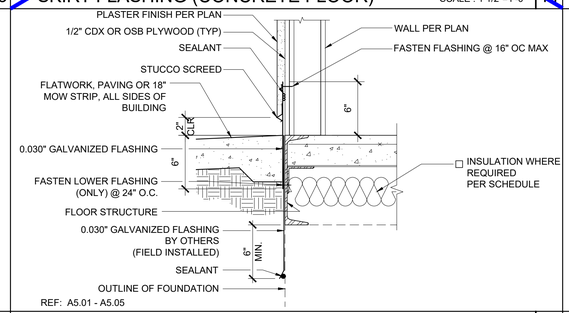

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 11

NOT USED | 6




SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 1

NOT USED | 17



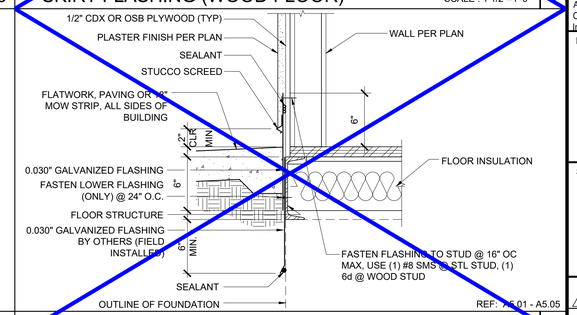

SKIRT FLASHING (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 12

NOTES | 7

NOTE:

1. WHEN THE BUILDING IS INSTALLED AT GROUND LEVEL (BELOW GRADE FOUNDATION OPTION) DETAILS 1,2,5,11,12+15 CAN ONLY BE USED WHERE THE BUILDING SIZE DOES NOT EXCEED 2,160 SF.
2. FOR BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATION SYSTEMS (WOOD FOUNDATION OR CONCRETE FOUNDATION WITH ABOVE GRADE STEMWALL) THE DETAILS SHOWN ON THIS SHEET MAY BE USED FOR ANY SIZE BUILDING.
3. FOR BUILDINGS INSTALLED ON ABOVE GRADE FOUNDATION SYSTEMS (WOOD FOUNDATION OR CONCRETE FOUNDATION WITH ABOVE GRADE STEMWALL) THE FLATWORK/PAVING/MOW STRIP WHICH IS INDICATED IN THE DETAILS ON THIS SHEET SHALL BE OMITTED.

SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 2

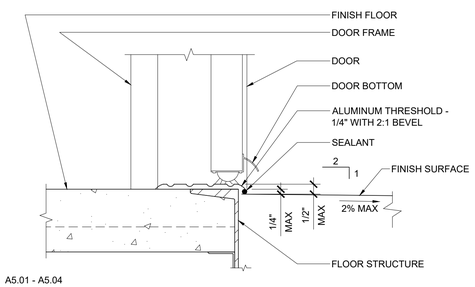



NOT USED | 18

NOT USED | 13

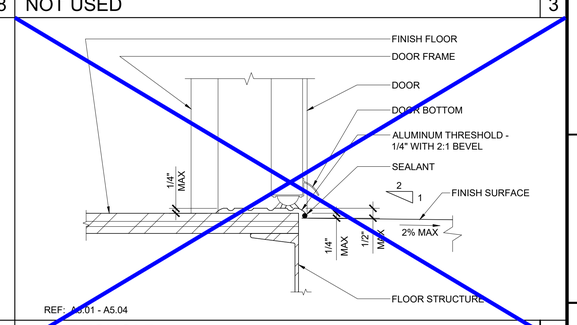
NOT USED | 8

NOT USED | 3




THRESHOLD SCALE : 3"=1'-0" | 14

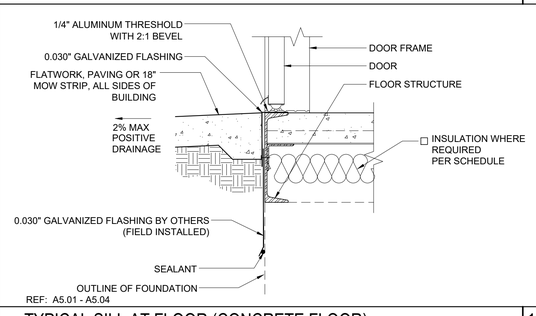
NOT USED | 9




THRESHOLD SCALE : 3"=1'-0" | 4

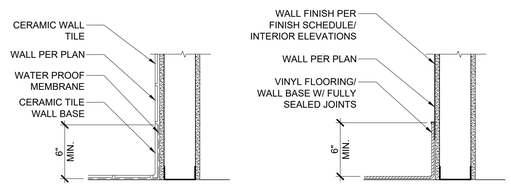
NOT USED | 19

NOT USED | 20

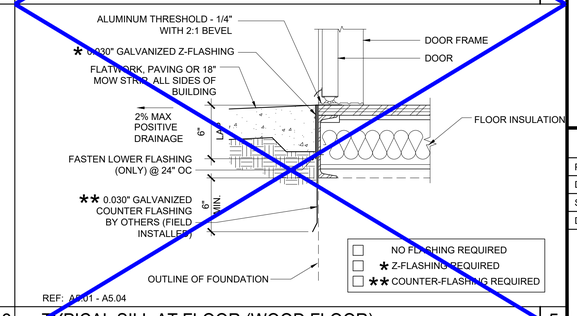



TYPICAL SILL AT FLOOR (CONCRETE FLOOR) SCALE : 1 1/2"=1'-0" | 15

WALL BASE AT TOILET ROOMS SCALE : 1 1/2"=1'-0" | 10




TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0" | 5




IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS
## FLOOR

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122800 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

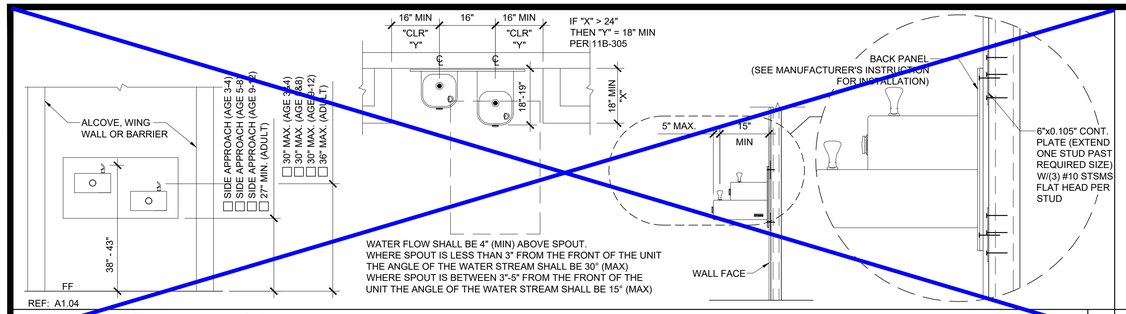
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUK
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

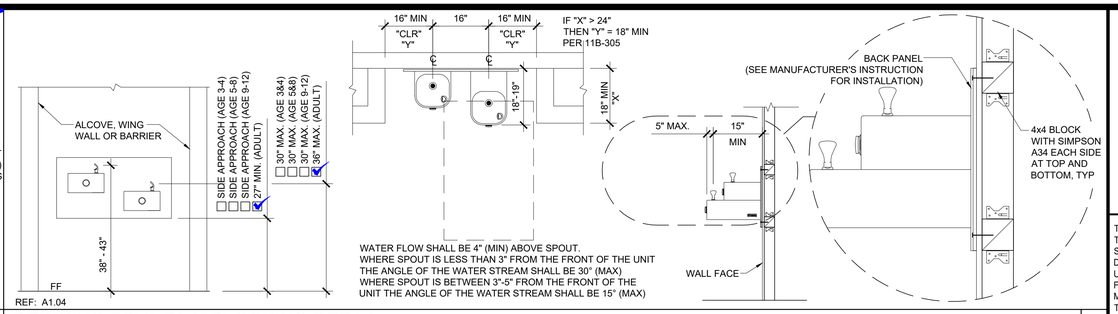
P.C. SHEET NUMBER

A-5.70



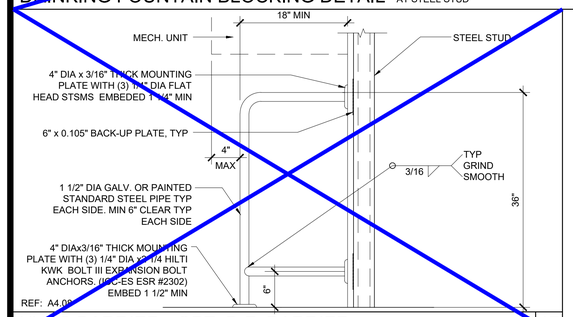

## DRINKING FOUNTAIN BLOCKING DETAIL AT STEEL STUD

SCALE : 1/2" = 1'-0" | 11



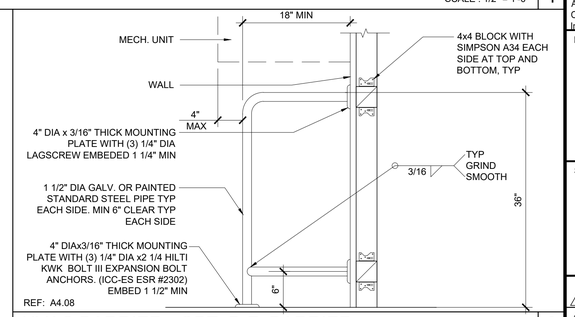

## DRINKING FOUNTAIN BLOCKING DETAIL AT WOOD STUD

SCALE : 1/2" = 1'-0" | 1



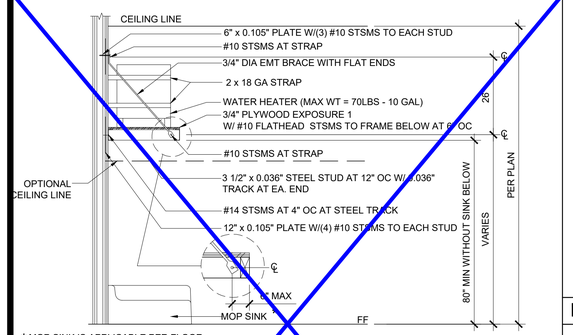

## HVAC BARRIER - OPT. D.F. BARRIER AT STEEL STUD

SCALE : 1" = 1'-0" | 17

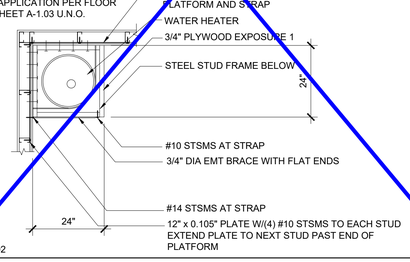



## HVAC BARRIER - OPT. D.F. BARRIER AT WOOD STUD

SCALE : 1" = 1'-0" | 2

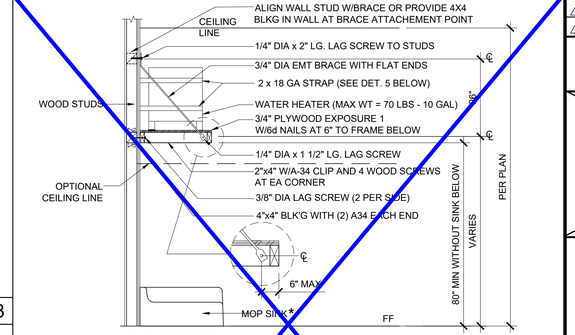



* MOP SINK IS APPLICABLE PER FLOOR PLANS ON SHEETS A-1.04 & A-1.06
MOP SINK NOT ALLOWED ON SINGLE STAFF RR APPLICATION PER FLOOR PLAN ON SHEET A-1.03 U.N.O.

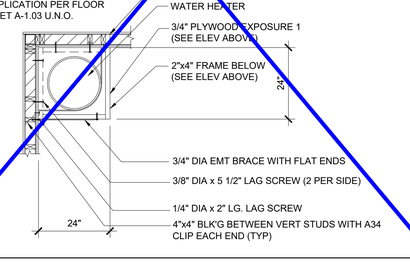



## WATER HEATER SHELF AT STEEL STUD

SCALE : 1/2" = 1'-0" | 19




* MOP SINK IS APPLICABLE PER FLOOR PLANS ON SHEETS A-1.04 & A-1.06
MOP SINK NOT ALLOWED ON SINGLE STAFF RR APPLICATION PER FLOOR PLAN ON SHEET A-1.03 U.N.O.




## WATER HEATER SHELF AT WOOD STUD

SCALE : 1/2" = 1'-0" | 4

## NOT USED

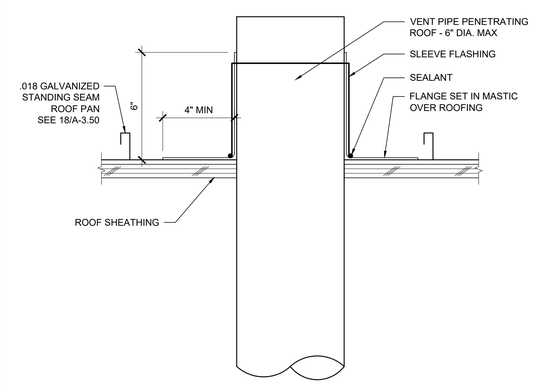
13

## NOT USED

8

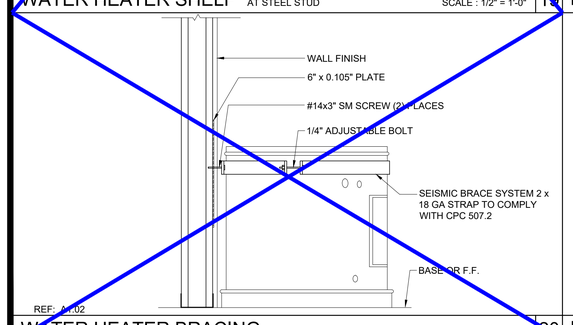
## NOT USED

14




## PIPE PENETRATION THROUGH ROOF

SCALE : 3"=1'-0" | 10

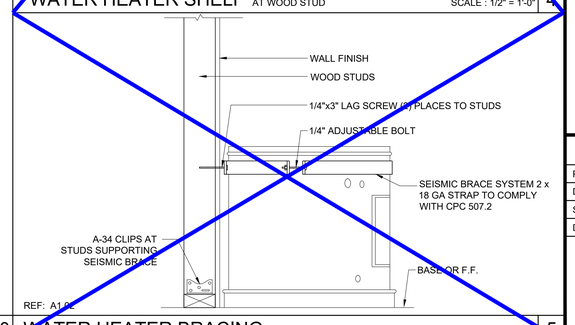



## WATER HEATER BRACING AT STEEL STUD

SCALE : 1 1/2" = 1'-0" | 20

## NOT USED

15




## WATER HEATER BRACING AT WOOD STUD

SCALE : 1 1/2" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# ARCHITECTURAL DETAILS

## MISCELLANEOUS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

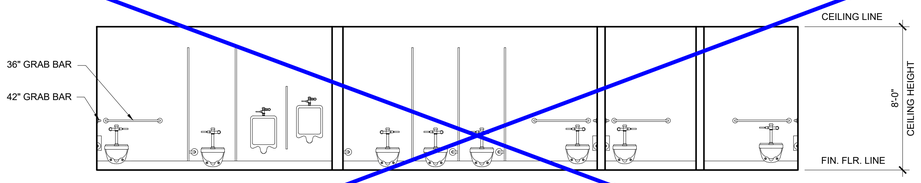
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

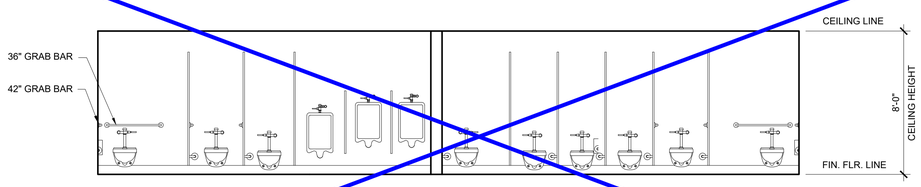
SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-5.81 |



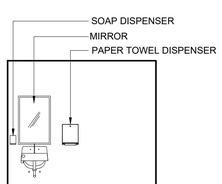

NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION C-2 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" 5




NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

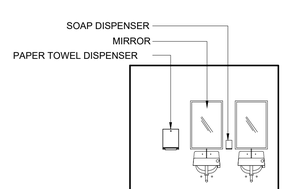
PLUMBING FIXTURE ELEVATION - OPTION D-1 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" 6




SEE PROJECT SPECIFIC

NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

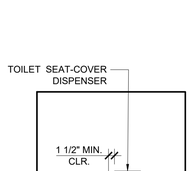
FIXTURE ELEVATION (TYP) - OPTION C-1 & C-2 SCALE: 1/4" = 1' - 0" 9




SEE PROJECT SPECIFIC

NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

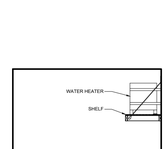
FIXTURE ELEVATION (TYP)-OPTION B-1, B-2, C-2 & D-1 SCALE: 1/4" = 1' - 0" 7




SEE PROJECT SPECIFIC

NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

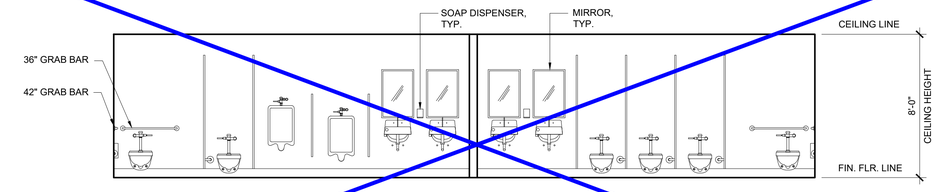
TOILET SEAT COVER DISPENSER ELEVATION SCALE: 1/4" = 1' - 0" 10




SEE PROJECT SPECIFIC

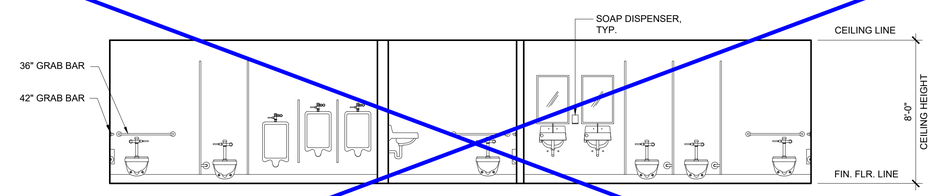
NOTE:
SEE SHEET A-5.81 FOR SHELF DETAILS.

MOP SINK + W/H ELEVATION-OPTION B-1, B-2, C-1, C-2 SCALE: 1/4" = 1' - 0" 8



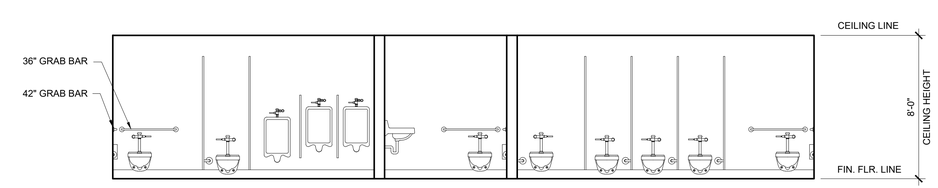

NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION A-1 AND A-2 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" 1




NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

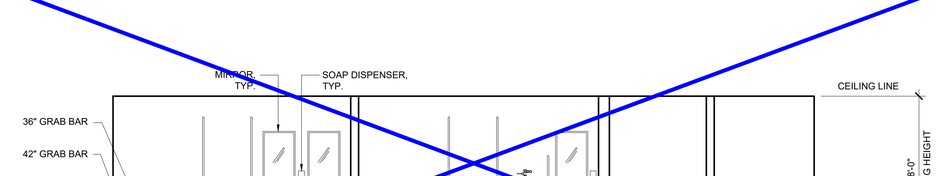
PLUMBING FIXTURE ELEVATION - OPTION B-1 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" 2




SEE PROJECT SPECIFIC

NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION B-2 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" 3




NOTE:
SEE SHEET P-2.01 FOR ACCESSIBLE DIMENSIONING REQUIREMENTS.

PLUMBING FIXTURE ELEVATION - OPTION C-1 (ADULT HEIGHT) SCALE: 1/4" = 1' - 0" 4

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# INTERIOR ELEVATIONS WALL MOUNTED "ADULT HEIGHT"

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122800 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

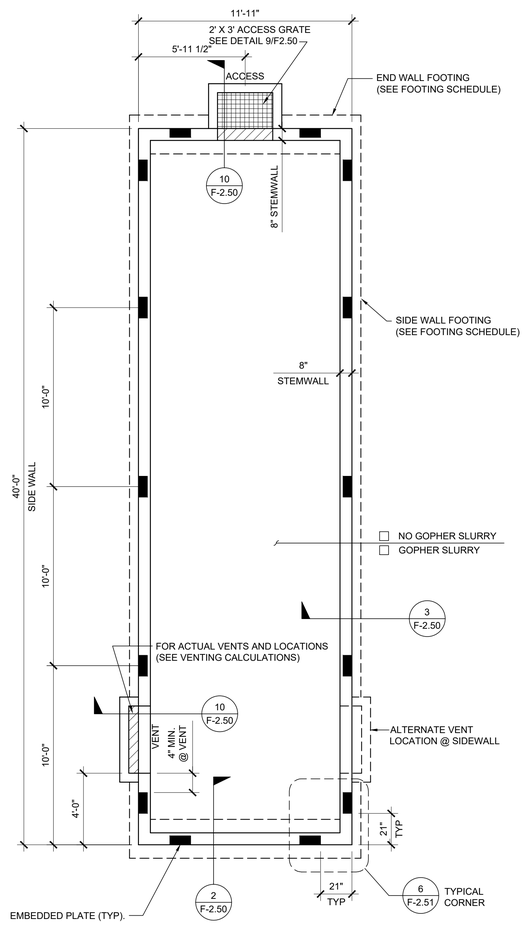
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARK
2875
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | A-6.01 |




| SYMBOLS LEGEND |
|---|
| 3/4"Ø x 6" EMBEDDED PLATE LOCATION FOR ALL FLOOR LOAD OPTIONS |

## NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   3'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2-0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (WHERE OCCURS):

   THE TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (≥ 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); SEAL TO ALL PIERS AND OTHER PENETRATIONS, SEE DETAIL 11/F-2.51.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION. THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.
6. WHERE THE BUILDING OCCURS ON OR ADJACENT TO A SLOPE (GREATER THAN 33%) THE SETBACK SHALL COMPLY WITH CBC SECTION 1808A.7. THE MINIMUM SETBACK AT THE TOP OF THE SLOPE SHALL BE NOT LESS THAN SMALLER OF 40'-0" OR 1/3 THE HEIGHT OF THE SLOPE. THE MINIMUM SETBACK AT THE BOTTOM OF THE SLOPE SHALL BE NOT LESS THAN THE SMALLER OF 15'-0" OR 1/2 THE HEIGHT OF THE SLOPE. THE SETBACK DISTANCES INDICATED HERE MAY BE REDUCED WHEN A SITE SPECIFIC GEOTECHNICAL REPORT IS PROVIDED.
7. A COLD JOINT MAY BE PROVIDED BETWEEN THE FOOTING AND THE VERTICAL FOUNDATION WALL. THE JOINT SHALL BE KEYED (2 1/2" WIDE (MIN) x 1 1/2" DEEP) AND ALL VERTICAL REINFORCING THAT CROSSES THE JOINT SHALL BE PLACED PRIOR TO THE PLACEMENT OF CONCRETE.

## VENTING SCHEDULE

VENT "C" : (4'-0" x 8" METAL SCREEN COVER)
3'-10" x 5" = 1.59 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 18" = 4.25 S.F. VENTILATION

## VENTING CALCULATION:

☑ 12' x 40' BUILDING: 12' x 40' = 480 SF / 150 = 3.2 SF VENT. REQ'D

D
C

1 - "C" VENT = 1.59 SF
1 - "D" ACCESS VENT = 4.25 SF
5.84 SF TOTAL VENTILATION (> 3.2 SF)

## FOOTING SCHEDULE

| DESIGN FLOOR LIVE LOAD | SIDEWALL FOOTING | ENDWALL FOOTING | |
|---|---|---|---|
| 50 PSF | 12" WIDE (2) #5 CONT T & B | 18" WIDE (3) #5 CONT T & B | |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# CONCRETE FOUNDATION PLAN
## BELOW GRADE CONC. CONCRETE FLOOR

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
2575
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

F-2.11

FOUNDATION PLAN

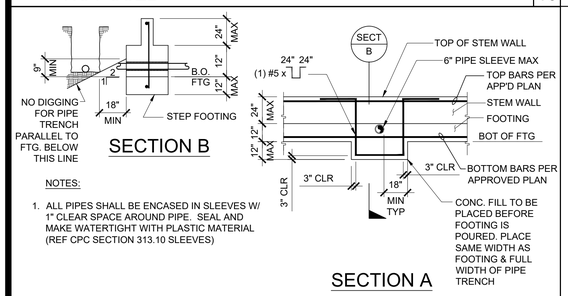
SCALE: 1/4" = 1' - 0" | 1

NOT USED 16

NOT USED 11

NOT USED 6

NOT USED 1



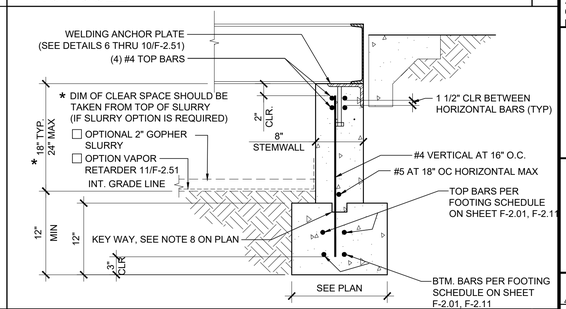

NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)

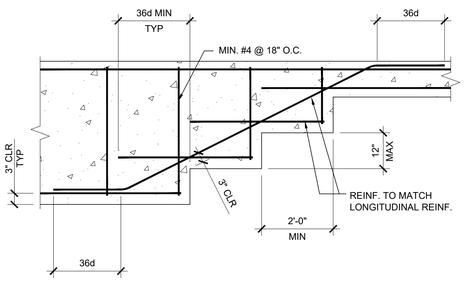
PIPE SLEEVE THRU FOUNDATION FOOTING SCALE : 1/4"=1'-0" 17

NOT USED 12

NOT USED 7



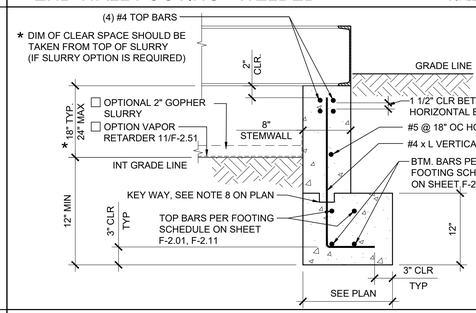

END WALL FOOTING - WELDED SCALE : 1" = 1'-0" 2



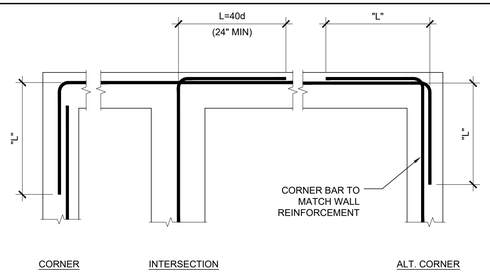

TYPICAL STEPPED FOOTING SCALE : 1/2"=1'-0" 18

NOT USED 13

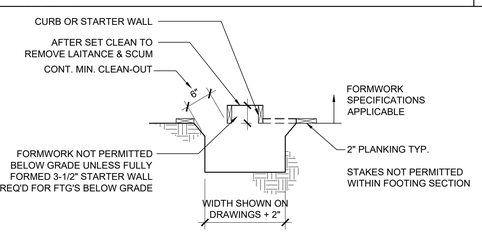
NOT USED 8




SIDE WALL FOOTING SCALE : 1" = 1'-0" 3

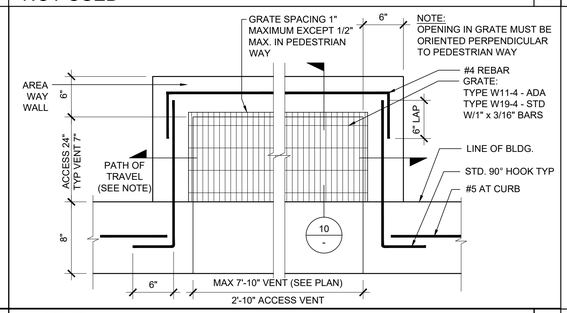



TYPICAL REINFORCING AT CORNER AND INTERSECTIONS SCALE : 3/4"=1'-0" 19




"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED) SCALE : 1 1/2"=1'-0" 14

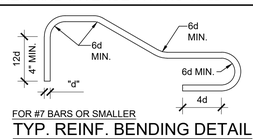



VENT SCALE : 1 1/2" = 1'-0" 9

NOT USED 4

| STANDARD HOOKS FOR PRIMARY REINFORCEMENT | |
|---|---|
| BAR SIZE, No. | MINIMUM FINISHED BEND DIAMETER[a] |
| 3 THROUGH 8 | $6d_b$ |
| 9 THROUGH 11 | $8d_b$ |
| 14 AND 18 | $10d_b$ |

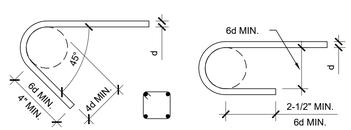
(a) MEASURED ON INSIDE OF BAR




TYP. REINF. BENDING DETAIL

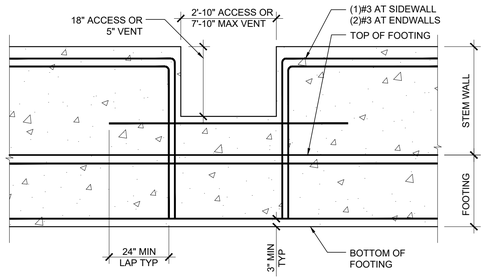
| STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT | |
|---|---|
| BAR SIZE, No. | MINIMUM FINISHED BEND DIAMETER[b] |
| 3 THROUGH 5 | $4d_b$ |
| 6 THROUGH 8 | $6d_b$ |

(b) MEASURED ON INSIDE OF BAR

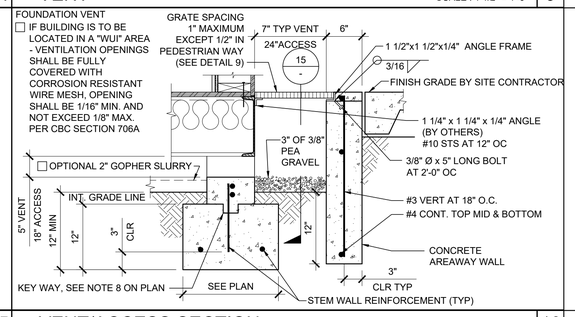



STIRRUP AND TIE HOOK STANDARD HOOK

TYPICAL REINFORCING BENDING DETAILS SCALE : 1 1/2" = 1'-0" 20




VENT OPENING SCALE : 1" = 1'-0" 15




VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10

NOT USED 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# CONCRETE FOUNDATION DETAILS BELOW GRADE

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARUCH 25275 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

F-2.50

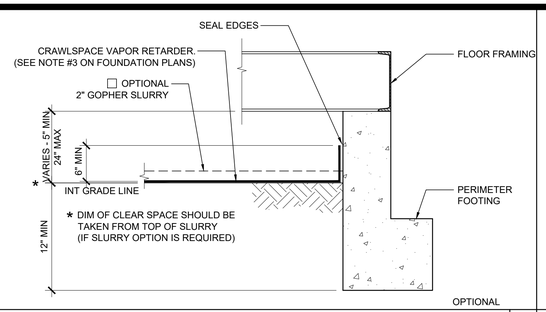
NOT USED 16

NOT USED 17

NOT USED 18

NOT USED 19

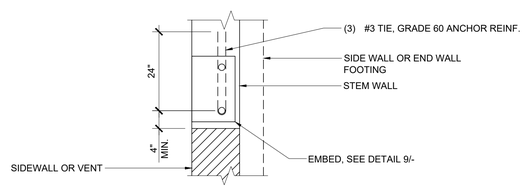
NOT USED 20



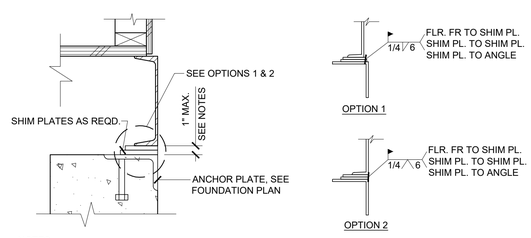

CRAWLSPACE VAPOR RETARDER SCALE : 1" = 1'-0" 11

NOT USED 12

NOT USED 13

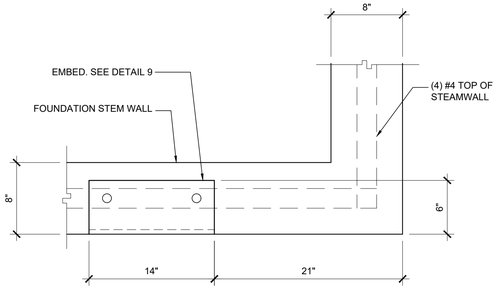



ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT 14




NOTES;
SHIM PLATE MAY BE SINGLE PLATE OR COMBINATION OF MULTIPLE PLATES.
MIN.SHIM THICKNESS IS 1/4".
MAX. SHIM HEIGHT IS 1".
GAPS UP TO 1/4" DO NOT REQ. SHIM PLATE.

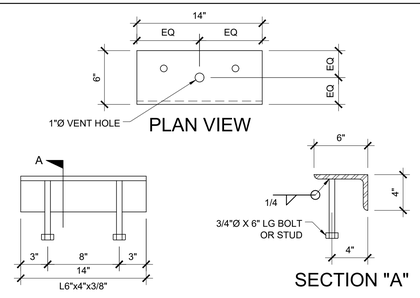
FOUNDATION WELDING W/ SHIM PLATES 15



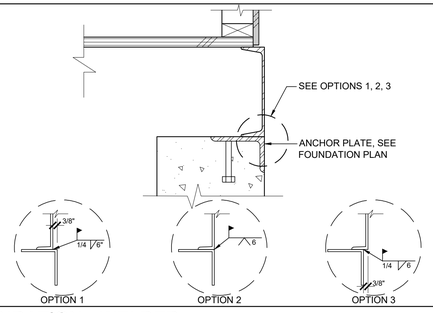

ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0" 6

NOT USED 7

NOT USED 8




WELD ANGLE DETAIL SCALE : 1 1/2" = 1'-0" 9

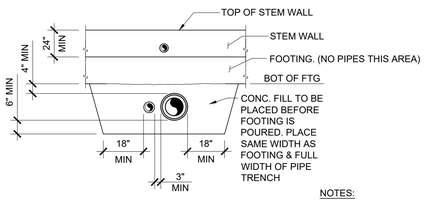



FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0" 10

NOT USED 1

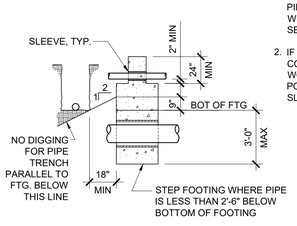
NOT USED 2

NOT USED 3




NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES




PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# FOUNDATION DETAILS
## CONCRETE

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023
P.C. SHEET NUMBER

F-2.51

# STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
   a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND CHAPTER 19A.
   b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318-14.
   c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS FOLLOWS:

☐ WHERE A GEOTECHNICAL REPORT IS NOT PROVIDED:
MINIMUM COMPRESSIVE STRENGTH = 5,000 PSI
MAXIMUM WATER/CEMENT RATIO = 0.40
CEMENT TYPE = V COMPLYING WITH ACI 318-19, TABLE 19.3.2.1, FOOTNOTE 8
NORMAL WEIGHT
NO ADMIXTURES CONTAINING CALCIUM CHLORIDE

☐ WHERE A GEOTECHNICAL REPORT IS PROVIDED WHICH INDICATES ONE OF THE FOLLOWING EXPOSURE CLASSIFICATIONS (F0, F1, S0, S1, W0, W1, C0, C1)
MINIMUM COMPRESSIVE STRENGTH = 4,000 PSI
MAXIMUM WATER/CEMENT RATIO = 0.50
CEMENT TYPE = II/V
NORMAL WEIGHT

NOTE: WHERE CONCRETE IS EXPOSED TO THAW AND FREEZE CYCLES IT SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.1.

5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
   a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
   b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN TOP OF STEMWALL AND/OR ANCHOR PLATE SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
9. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
10. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

| LOCATION | AMOUNT |
|---|---|
| FORMED EARTH | 2" |
| CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| WALL-EXPOSED FACE | |
| #5 OR SMALLER | 2" |
| #6 OR LARGER | 2" |
| WALL-UNEXPOSED FACE | 3/4" |

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2022 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. * (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

a) FLOOR AND ROOF DECK WELDING.
b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.

* OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:
STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 11GA OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 10GA OR GREATER: ASTM A-1011/A GRADE 40

| SHEET STEEL DESIGNATION (GAUGE) | MINIMUM DELIVERED THICKNESS (INCHES) |
|---|---|
| 26 | 0.017 |
| 22 | 0.029 |
| 20 | 0.034 |
| 18 | 0.046 |
| 16 | 0.057 |
| 14 | 0.071 |
| 12 | 0.100 |
| 11 | 0.114 |
| 10 | 0.128 |

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NTD:
(b) CJP GROOVE WELD NDT
ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16. MOISTURE CONTENT = 19% MAX.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = HF #2, OR DF #2, OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS 1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
   i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   ii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.12.1.2).
1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:
THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:
ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:
3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO ROOF JOISTS AND BEAMS W/ #10 X 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 6" OC AT BOUNDARIES, 6" OC AT EDGES, AND 6" OC FIELD SCREWS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

FLOOR DIAPHRAGM:
1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO FLOOR JOISTS AND BEAMS W/ #10 - 24 X 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3000 PSI MIN
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:
2 X STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 X 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2022 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 15TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:
WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

NAILING NOTES:
1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:
ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:
AS REQUIRED PER ANSI / AF&FA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

## FASTENING SCHEDULE (2022 CBC TABLE 2304.10.1)

| DESCRIPTION OF BUILDING ELEMENTS | NUMBER AND TYPE OF FASTENER | SPACING AND LOCATION |
|---|---|---|
| Roof | | |
| 1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below | 3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Each end, toenail |
| Blocking between rafters or truss not at the wall top plate, to rafter or truss | 2-8d common (2 1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples | Each end, toenail |
| | 2-16 d common (3 1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples | End nail |
| Flat blocking to truss and web filler | 16d common (3 1/2" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c | Face nail |
| 2. Ceiling joists to top plate | 3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Each joist, toenail |
| 3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1) | 3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Face nail |
| 4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1) | Per Table 2308.7.3.1 | Face nail |
| 5. Collar tie to rafter | 3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Face nail |
| 6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5) | 3-10 common (3" × 0.148"); or 3-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown | Toenail[c] |
| 7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam | 2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown; or | End nail |
| | 3-10d common (3" × 0.148"); or 4-16d box (31/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Toenail |
| Wall | | |
| 8. Stud to stud (not at braced wall panels) | 16d common (3 1/2" × 0.162"); | 24" o.c. face nail |
| | 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | 16" o.c. face nail |
| 9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels) | 16d common (3 1/2" × 0.162"); or | 16" o.c. face nail |
| | 16d box (3 1/2" × 0.135"); or | 12" o.c. face nail |
| | 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | 12" o.c. face nail |
| 10. Built-up header (2" to 2" header) | 16d common (3 1/2" × 0.162"); or | 16" o.c. each edge, face nail |
| | 16d box (3 1/2" × 0.135") | 12" o.c. each edge, face nail |
| 11. Continuous header to stud | 4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128") | Toenail |
| 12. Top plate to top plate | 16d common (3 1/2" × 0.162"); or | 16" o.c. face nail |
| | 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 12" o.c. face nail |
| 13. Top plate to top plate, at end joints | 8-16d common (3 1/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown | Each side of end joint, face nail (minimum 24" lap splice length each side of end joint) |
| 14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels) | 16d common (3 1/2" × 0.162"); or | 16" o.c. face nail |
| | 16d box (3 1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 12" o.c. face nail |
| 15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels | 2-16d common (3 1/2" × 0.162"); or 3-16d box (3 1/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | 16" o.c. face nail |
| 16. Stud to top or bottom plate | 4-8d common(2 1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or | Toenail |
| | 2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | End nail |
| 17. Top plates, laps at corners and intersections | 2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Face nail |
| 18. 1" brace to each stud and plate | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown | Face nail |
| 19. 1" × 6" sheathing to each bearing | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128") | Face nail |
| 20. 1" × 8" and wider sheathing to each bearing | 3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128") | Face nail |
| Floor | | |
| 21. Joist to sill, top plate, or girder | 3-8d common (2 1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Toenail |
| 22. Rim joist, band joist, or blocking to top plate, sill or other framing below | 8d common (2 1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 6" o.c., toenail |
| 23. 1" × 6" subfloor or less to each joist | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128") | Face nail |
| 24. 2" subfloor to joist or girder | 2-16d common (3 1/2" × 0.162") | Face nail |
| 25. 2" planks (plank & beam — floor & roof) | 2-16d common (3 1/2" × 0.162") | Each bearing, face nail |
| 26. Built-up girders and beams, 2" lumber layers | 20d common (4" × 0.192") | 32" o.c., face nail at top and bottom staggered on opposite sides |
| | 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown | 24" o.c. face nail at top and bottom staggered on opposite sides |
| | And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown | Ends and at each splice, face nail |
| 27. Ledger strip supporting joists or rafters | 3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | Each joist or rafter, face nail |
| 28. Joist to band joist or rim joist | 3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown | End nail |
| 29. Bridging or blocking to joist, rafter or truss | 2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown | Each end, toenail |

Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing[a]

| | | Edges (inches) | Intermediate supports (inches) |
|---|---|---|---|
| 30. 3/8" — 1/2" | 6d common or deformed (2" × 0.113") (subfloor and wall) | 6 | 12 |
| | 8d common or deformed (2 1/2" × 0.131") (roof) or RSRS-01 (2 3/8" × 0.113") nail (roof)[d] | 6 | 12 |
| | 2 3/8" × 0.113" nail (subfloor and wall) | 6 | 12 |
| | 2 3/8" × 0.113" nail (roof) | 4 | 8 |
| 31. 19/32" — 3/4" | 8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall) | 6 | 12 |
| | 8d common or deformed (2 1/2" × 0.131") (roof) or RSRS-01 (2 3/8" × 0.113") nail (roof)[d] | 6 | 12 |
| | 2 3/8" x 0.113" nail | 4 | 8 |
| 32. 7/8" — 11/4" | 10d common (3" × 0.148"); or 8d deformed 2 1/2" 0.131") | 6 | 12 |
| Other exterior wall sheathing | | | |
| 33. 1/2" fiberboard sheathing[b] | 1 1/2" galvanized roofing nail (7/16" head diameter); or 1 1/4" 16 gage staple with 7/16" or 1" crown | 3 | 6 |
| 34. 25/32" fiberboard sheathing[b] | 1 3/4" galvanized roofing nail (7/16" diameter head); or 1 1/2" 16 gage staple with 7/16" or 1" crown | 3 | 6 |
| Wood structural panels, combination subfloor underlayment to framing | | | |
| 35. 3/4" and less | 8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") | 6 | 12 |
| 36. 7/8" — 1" | 8d common (2 1/2" × 0.131"); or 8d deformed (2 1/2" × 0.131") | 6 | 12 |
| 37. 11/8" — 11/4" | 10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131") | 6 | 12 |
| Panel siding to framing | | | |
| 38. 1/2" or less | 6d corrosion-resistant siding (1 7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099") | 6 | 12 |
| 39. 5/8" | 8d corrosion-resistant siding (2 3/8" × 0.128"); or 8d corrosion-resistant casing (2 1/2" × 0.113") | 6 | 12 |
| Interior paneling | | | |
| 40. 1/4" | 4d casing (1 1/2" × 0.080"); or 4d finish (1 1/2" × 0.072") | 6 | 12 |
| 41. 3/8" | 6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches) | 6 | 12 |

Footnotes:

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.

b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).

c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.

d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

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DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
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DATE: 04/15/2026

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PROJECT NAME:

SHEET TITLE:

STRUCTURAL SPECIFICATIONS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

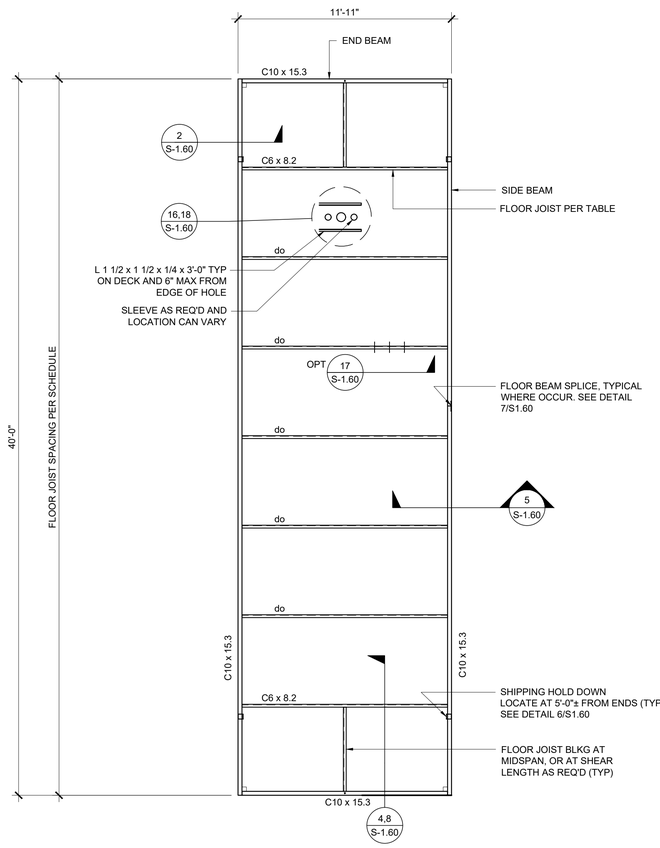
MODULAR BUILDING DESIGN PROFESSIONAL

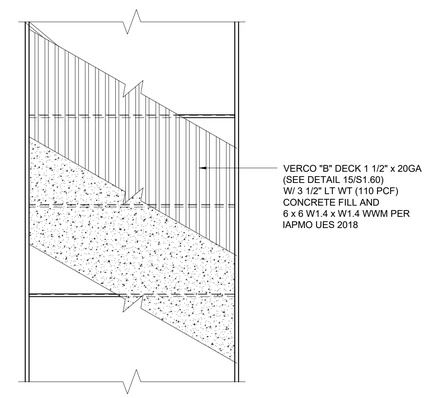
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023
P.C. SHEET NUMBER

S-0.1




## FLOOR JOIST TABLE

| | LIVE LOAD PSF | JOIST SPACING |
|---|---|---|
| ☑ | 50 | 48" |

FLOOR FRAMING PLAN

SCALE: 1/4" = 1' - 0" | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

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PROJECT NAME:

SHEET TITLE:

# FLOOR FRAMING PLAN
## CONCRETE FLOOR

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
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DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

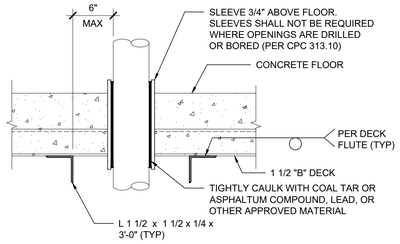
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUP
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

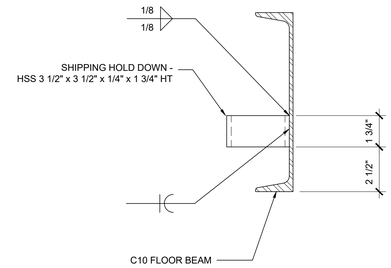
P.C. SHEET NUMBER

S-1.11




FLOOR PENETRATION SCALE : 3" = 1'-0" 16

NOT USED 11




SHIPPING HOLD DOWN DETAIL SCALE : 3"=1'-0" 6

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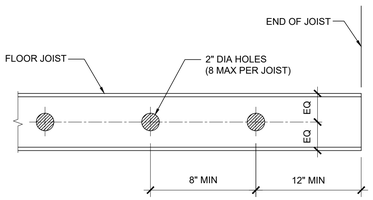


FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0" 17

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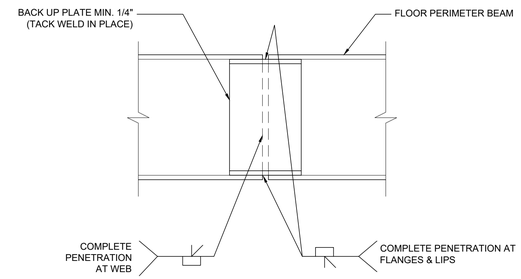
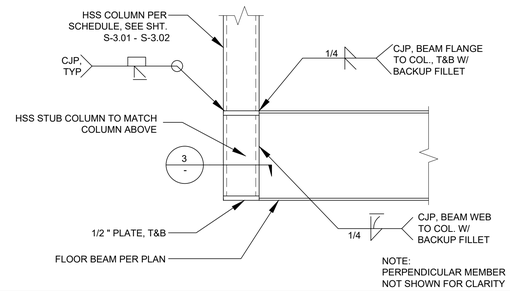
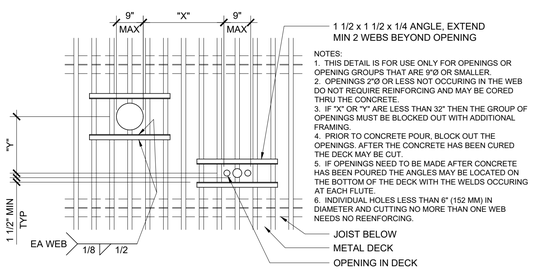



FLOOR BEAM SPLICE SCALE : 3" = 1'-0" 7



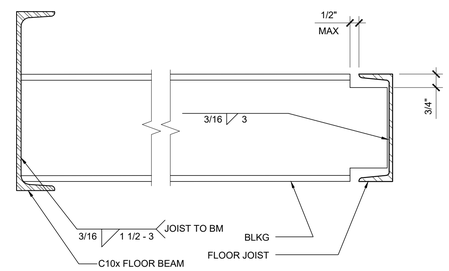

FLOOR BEAM TO COLUMN CONNECTION SCALE : 1 1/2" = 1'-0" 2



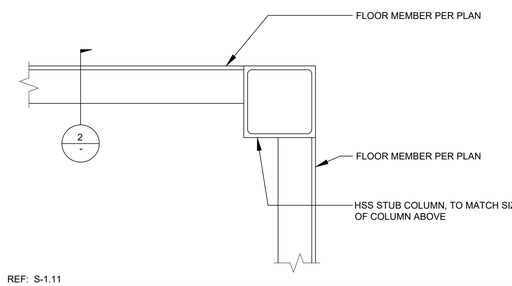

NOTES:
1. THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 9"Ø OR SMALLER.
2. OPENINGS 2"Ø OR LESS NOT OCCURING IN THE WEB DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.
3. IF "X" OR "Y" ARE LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.
4. PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.
5. IF OPENINGS NEED TO BE MADE AFTER CONCRETE HAS BEEN POURED THE ANGLES MAY BE LOCATED ON THE BOTTOM OF THE DECK WITH THE WELDS OCCURING AT EACH FLUTE.
6. INDIVIDUAL HOLES LESS THAN 6" (152 MM) IN DIAMETER AND CUTTING NO MORE THAN ONE WEB NEEDS NO REENFORCING.

PENETRATIONS IN DECK (OPTION) SCALE : 1/2"=1'-0" 18

NOT USED 13




BLOCKING TO JOIST SCALE : 3"=1'-0" 8

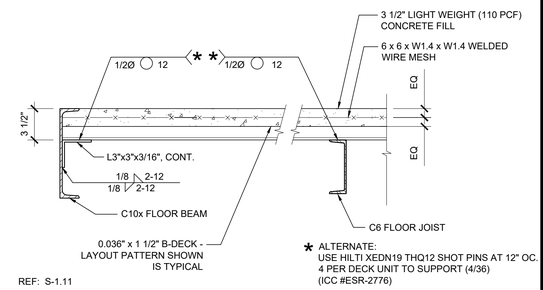



REF: S-1.11

CORNER CONNECTION SCALE : 3" = 1'-0" 3

NOT USED 19

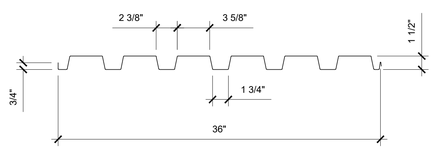
NOT USED 14




REF: S-1.11

DECK AT END BEAM SCALE : 1 1/2" = 1'-0" 4

NOT USED 20

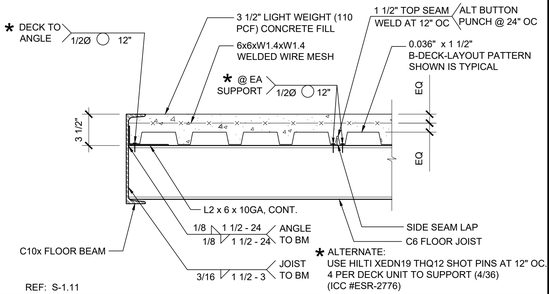



TYPE B-36 (INTERLOCK)

DECK PROPERTIES:
TYPE: B
THICKNESS (IN): 0.036"
I ($IN^4$): 0.22
POSITIVE ($IN^3$): 0.235
NEGATIVE ($IN^3$): 0.246

FLOOR DECK PROPERTY SCALE : 1 1/2" = 1'-0" 15

NOT USED 10




REF: S-1.11

JOIST TO SIDE BEAM SCALE : 1 1/2" = 1'-0" 5

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PROJECT NAME:

SHEET TITLE:

# FLOOR FRAMING DETAIL
## CONCRETE FLOOR

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

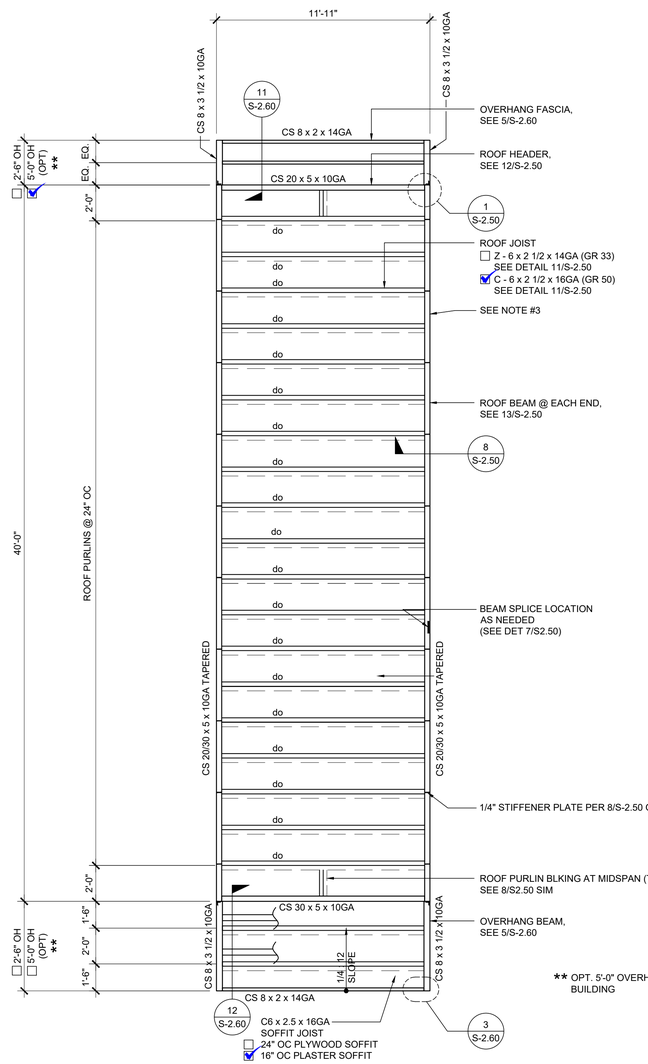
MODULAR BUILDING DESIGN PROFESSIONAL

SILVER CREEK INDUSTRIES
12' x 40' PC

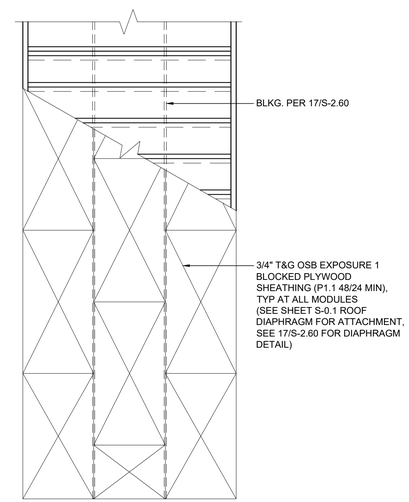
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

S-1.60




** OPT. 5'-0" OVERHANG ALLOWED AT ONLY ONE END OF BUILDING




## NOTES

1. OPTIONAL PURLIN FOR FIRE SPRINKLER LINE AS NEEDED. LOCATION OF FIRE SPRINKLER PURLIN TO BE DETERMINED BY SITE STIFFENER PLATE OR ANGLE BRACE REQUIRED AT THIS LOCATION. FOR FIRE SPRINKLER LINE SIDE BEAM PENETRATION, SEE 14 / S2.50 OR 14 / S2.51 DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
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DATE: 04/15/2026

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PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING PLAN
## MONO SLOPE

REVISIONS
1
2
3
4
5

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APP: 04-122000 PC
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DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARUCH
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

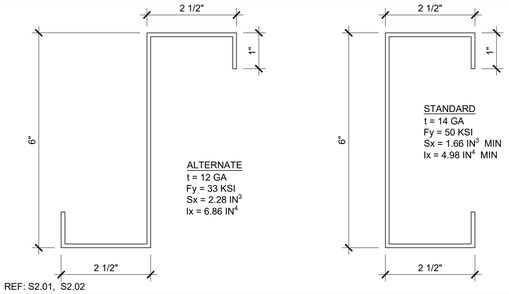
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

S-2.01

ROOF FRAMING PLAN

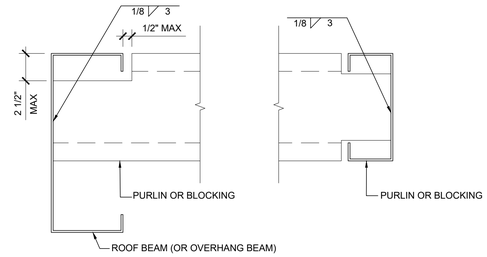
SCALE: 1/4" = 1' - 0"




REF: S2.01, S2.02

## ROOF PURLIN PROFILES

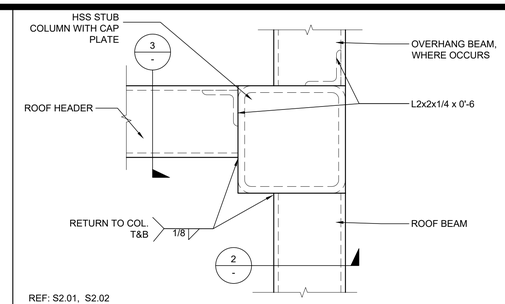
SCALE : 6"=1'-0" | 11




REF: S2.02

## TYPICAL PURLIN CONNECTION DETAIL

SCALE : 3" = 1'-0" | 6

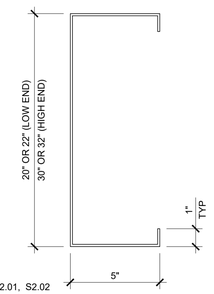



REF: S2.01, S2.02

## COLUMN AT ROOF - PLAN

SCALE : 3" = 1'-0" | 1

## NOT USED | 16




20" (LOW END)
t = 0.128"
Fy = 50 KSI
Sx = 15.930 IN3 MIN
Ix = 150.490 IN4 MIN

22" (LOW END)
t = 0.128"
Fy = 50 KSI
Sx = 15.930 IN3 MIN
Ix = 150.490 IN4 MIN

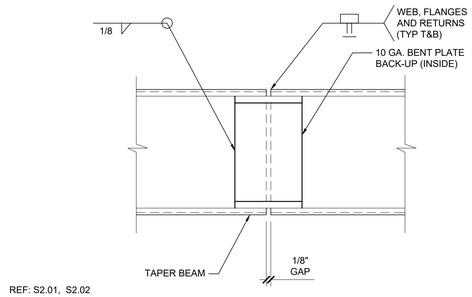
30" (HIGH END)
t = 0.128"
Fy = 50 KSI
Sx = 26.140 IN3 MIN
Ix = 412.220 IN4 MIN

32" (HIGH END)
t = 0.128"
Fy = 50 KSI
Sx = 26.140 IN3 MIN
Ix = 412.220 IN4 MIN

REF: S2.01, S2.02

## ROOF HEADER

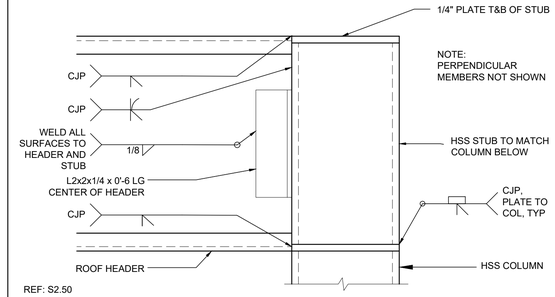
SCALE : NTS | 12




REF: S2.01, S2.02

## BEAM SPLICE

SCALE: 3" = 1'-0" | 7

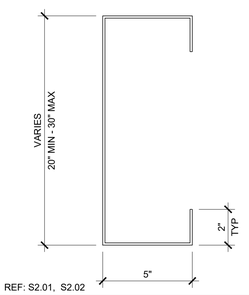



REF: S2.50

## COLUMN AT ROOF - SECTION

SCALE : 3" = 1'-0" | 2

## NOT USED | 17



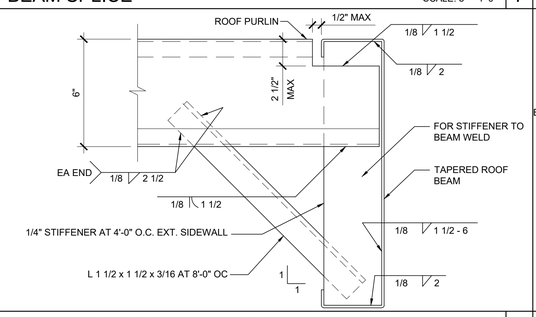

20"
t = 0.128"
Fy = 50 KSI
Sx = 15.930 IN3 MIN
Ix = 150.490 IN4 MIN

30"
t = 0.128"
Fy = 50 KSI
Sx = 26.140 IN3 MIN
Ix = 412.220 IN4 MIN

REF: S2.01, S2.02

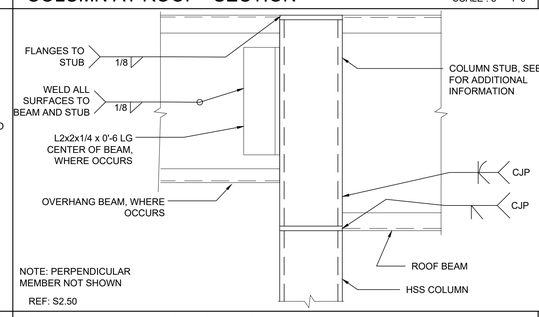
## SIDE BEAM

SCALE : NTS | 13




## PURLIN TO ROOF BEAM @ STIFFENER

SCALE : 3"=1'-0" | 8



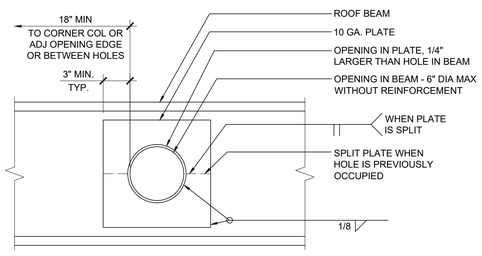

NOTE: PERPENDICULAR MEMBER NOT SHOWN

REF: S2.50

## COLUMN AT ROOF OVERHANG

SCALE : 3" = 1'-0" | 3

## NOT USED | 18




REF: S2.01, S2.02

## SIDEWALL BEAM PENETRATION

SCALE : 1 1/2"=1'-0" | 14

## NOT USED | 9

## NOT USED | 4

## NOT USED | 19

## NOT USED | 20

## NOT USED | 15

## NOT USED | 10

## NOT USED | 5

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PROJECT NAME:

SHEET TITLE:

# ROOF FRAMING DETAILS
## MONO SLOPE

REVISIONS
1
2
3
4
5

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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

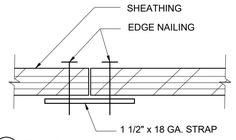
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

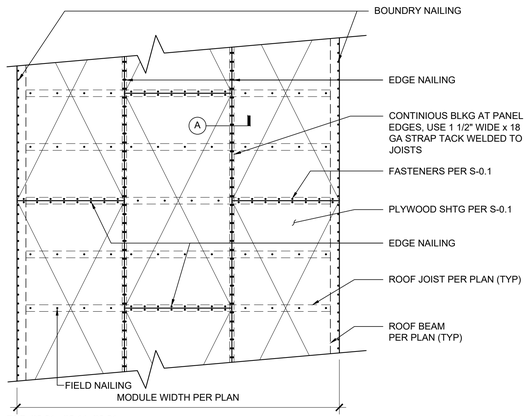
SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
S-2.50

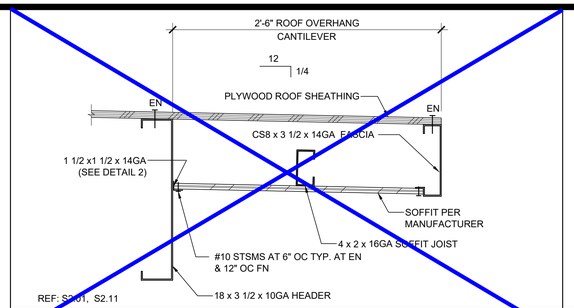



Ⓐ EDGE NAILING @ STRAP



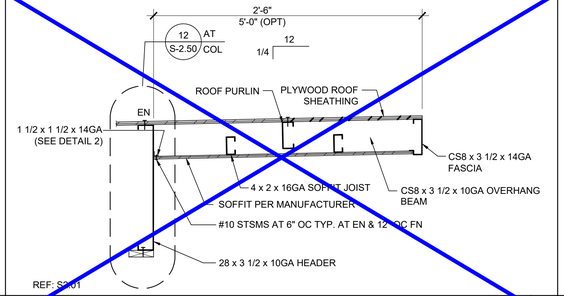

REF: S2.01, S2.11, S2.21

ROOF SHEATHING INSTALLATION SCALE : 3/8" = 1'-0" | 17



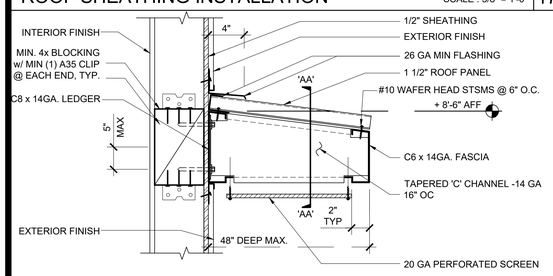

REF: S2.01, S2.11

REAR OVERHANG SECTION SCALE : 1 1/2" = 1'-0" | 11

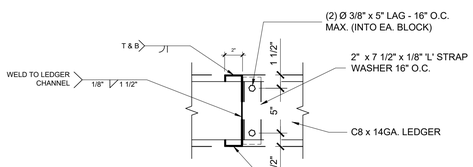



REF: S2.01

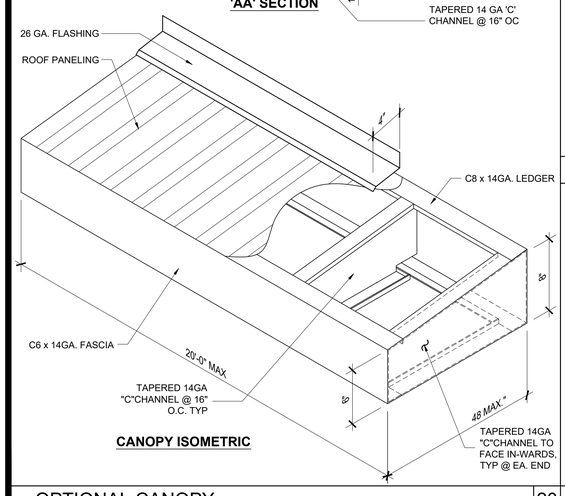
FRONT OVERHANG SECTION - MONO SLOPE SCALE: 3/4" = 1'-0" | 12




**CANOPY SECTION**

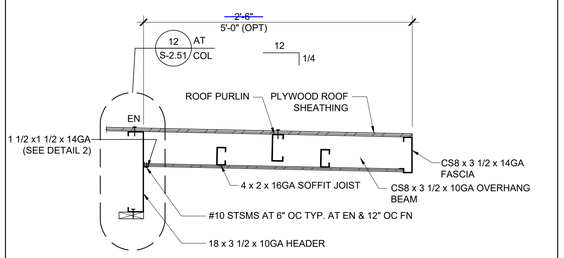



**'AA' SECTION**




**CANOPY ISOMETRIC**

OPTIONAL CANOPY SCALE : 1 1/2" = 1'-0" | 20




REF: S2.11

FRONT OVERHANG SECTION - DUAL SLOPE SCALE: 3/4" = 1'-0" | 13

NOT USED | 14

NOT USED | 15

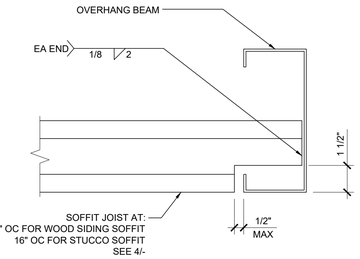
NOT USED | 6

NOT USED | 7

NOT USED | 8

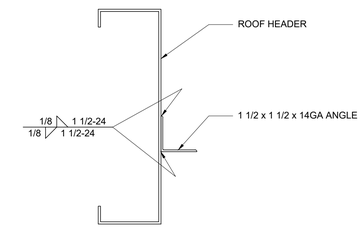
NOT USED | 9

NOT USED | 10



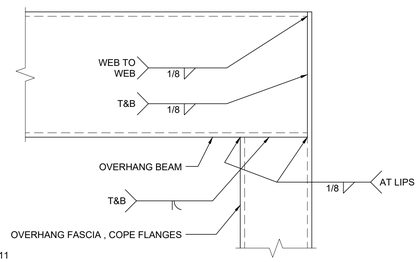

REF: S3.01

SOFFIT JOIST TO OVERHANG BEAM SCALE : 3"=1'-0" | 1



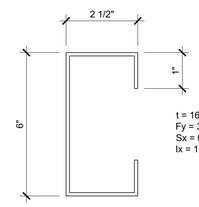

REF: S3.01

SOFFIT ANGLE TO HEADER CONNECTION SCALE : 3"=1'-0" | 2



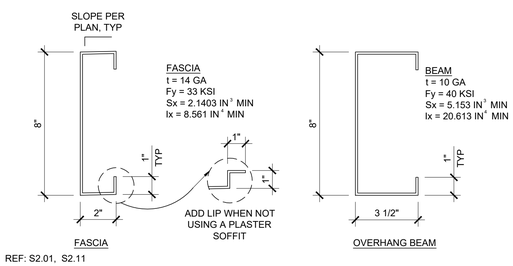

REF: S2.01, S2.11

OVERHANG FASCIA TO BEAM CONNECTION SCALE : 3"=1'-0" | 3




REF: S2.01, S2.11, S3.01

SOFFIT JOIST SCALE : 6"=1'-0" | 4




REF: S2.01, S2.11

OVERHANG FASCIA & BEAM SCALE : 3"=1'-0" | 5

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DIV. OF THE STATE ARCHITECT
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PROJECT NAME:

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# ROOF FRAMING DETAILS

REVISIONS

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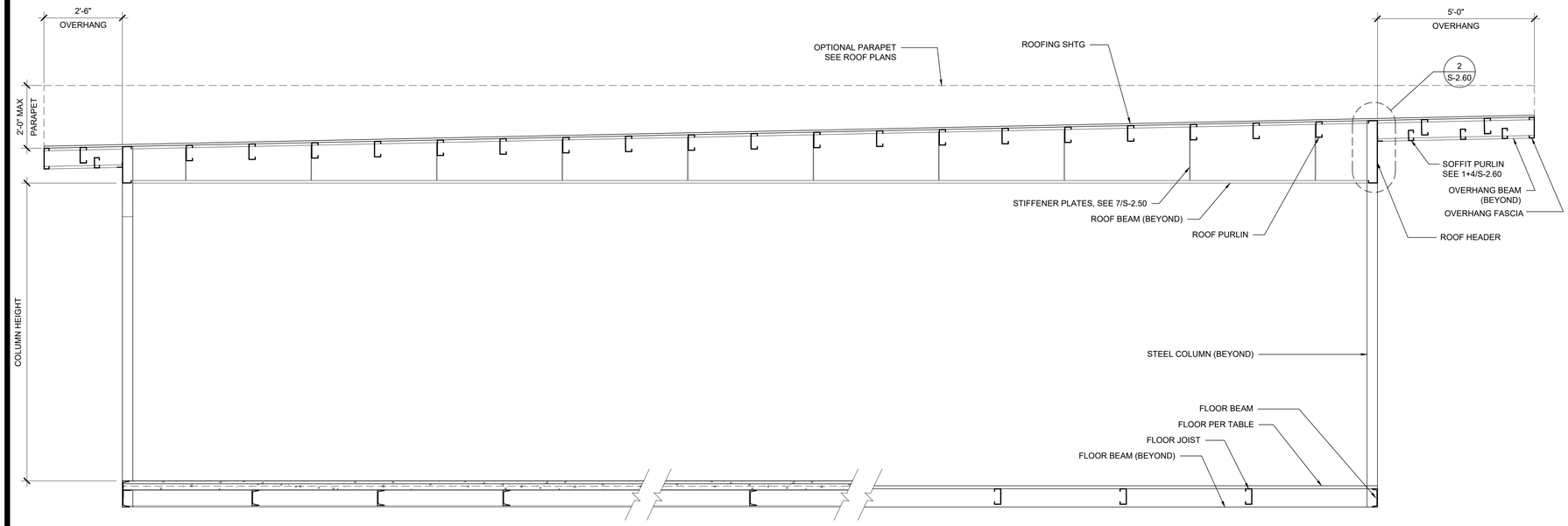
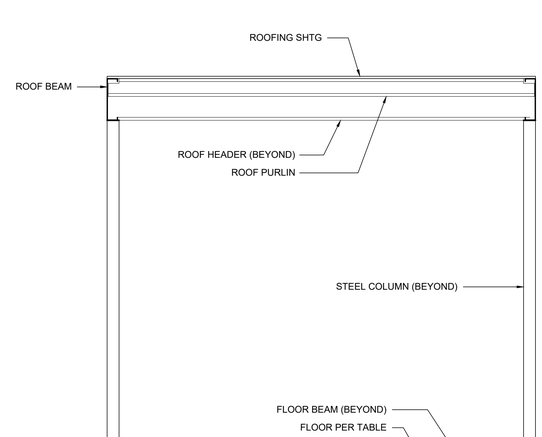


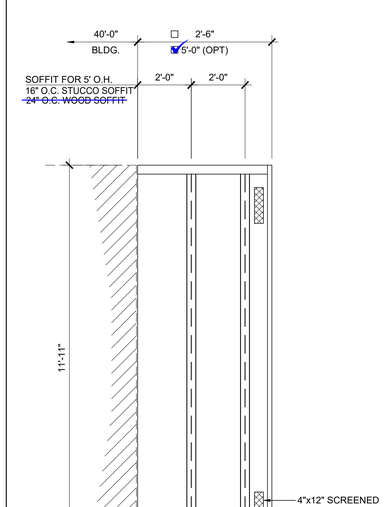

BUILDING SECTION

SCALE: 1/2" = 1'-0" | 1




BUILDING SECTION

SCALE: 1/2" = 1'-0" | 3




ENCL. SOFFIT PLAN-OPT.

SCALE: 3/8" = 1'-0" | 2

## NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

## FLOOR CONSTRUCTION

- ☐ WOOD FLOOR
- ☑ CONCRETE FLOOR

## HSS COLUMN SCHEDULE

| COL HT | NO PARAPET | WITH PARAPET |
|---|---|---|
| ☐ 9'-0" | ☐ 6 x 6 x 3/8 | ☐ 6 x 6 x 5/8 |
| ☑ 9'-6" | ☑ 6 x 6 x 3/8 | ☐ 6 x 6 x 5/8 |
| ☐ 10'-0" | ☐ 6 x 6 x 3/8 | ☐ 6 x 6 x 5/8 |
| ☐ 10'-6" | ☐ 6 x 6 x 3/8 | ☐ 6 x 6 x 5/8 ★ |

★ REQUIRES MINIMUM C8x13.7 FLOOR BEAM @ WOOD FLOOR

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# BUILDING SECTIONS
## MONO SLOPE

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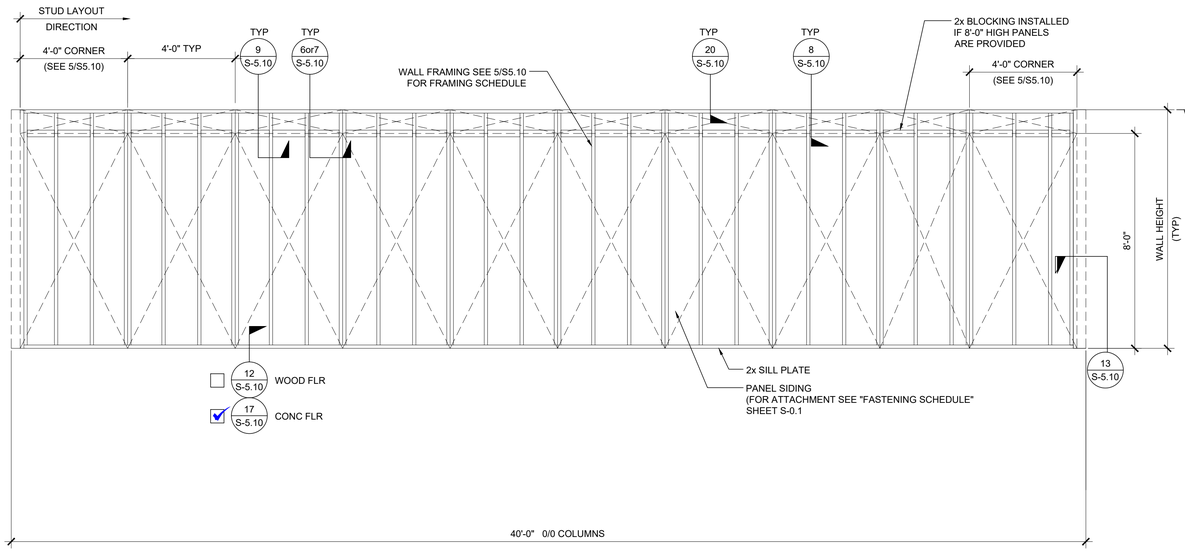
Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

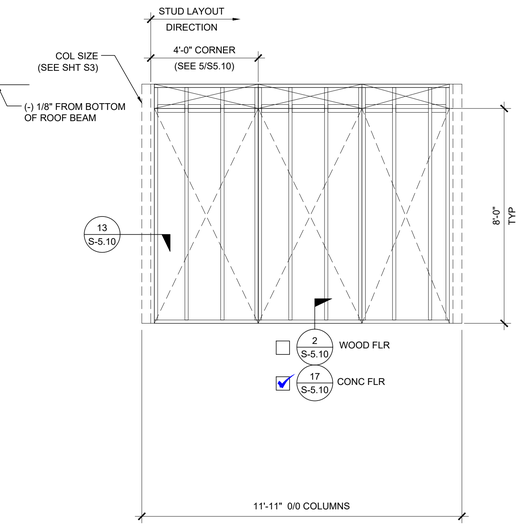
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLIN
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

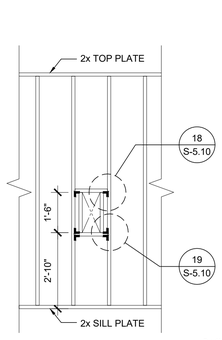
| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |
| P.C. SHEET NUMBER | S-3.01 |



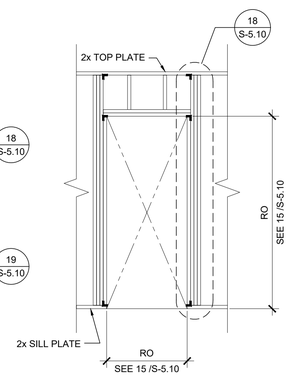

TYPICAL SIDE WALL



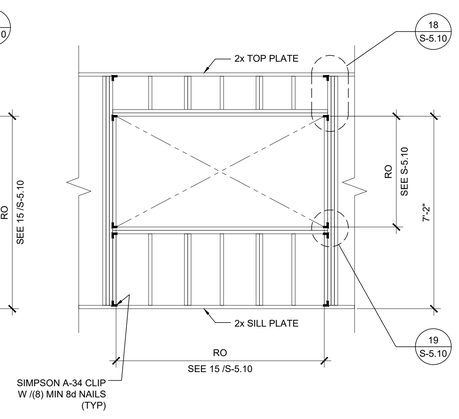

TYPICAL END WALL




FIRE EXTINGUISHER
CABINET BLOCKOUT




TYPICAL DOOR




TYPICAL WINDOW

## NOTES

## WALL HEIGHT SCHEDULE

| COLUMN HEIGHT | ☐ 9'-0" | ☑ 9'-6" | ☐ 10'-0" | ☐ 10'-6" |
|---|---|---|---|---|
| ☑ CONCRETE FLOOR | 8'-11 7/8" | 9'-5 7/8" | 9'-11 7/8" | 10'-5 7/8" |
| ☐ WOOD FLOOR | 8'-10 3/4" | 9'-4 3/4" | 9'-10 3/4" | 10'-4 3/4" |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# FRAMING ELEVATIONS
## WOOD STUDS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
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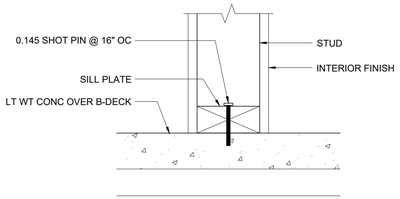
STATE OF CALIFORNIA

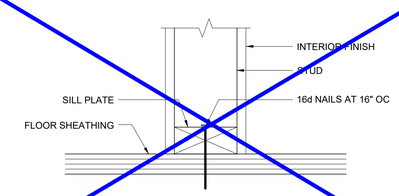
SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

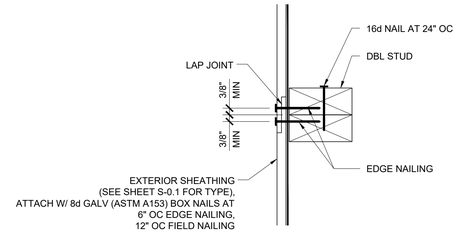
P.C. SHEET NUMBER
S-5.00




PARTITION CONNECTION AT CONC FLOOR SCALE : 3"=1'-0" 16

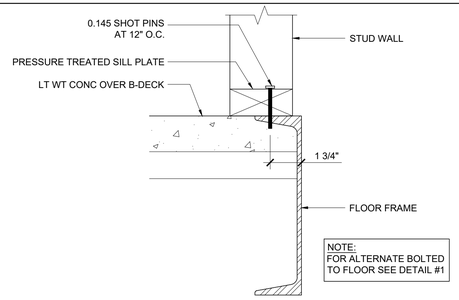



PARTITION CONNECTION AT WOOD FLOOR SCALE : 3"=1'-0" 11

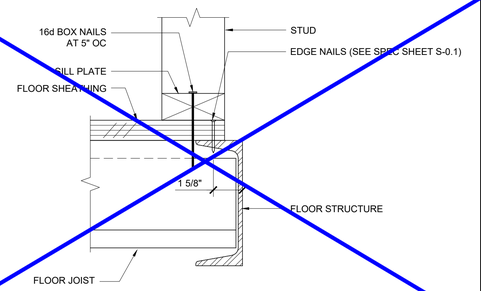



VERTICAL SHEATHING LAP JOINT SCALE : 3"=1'-0" 6

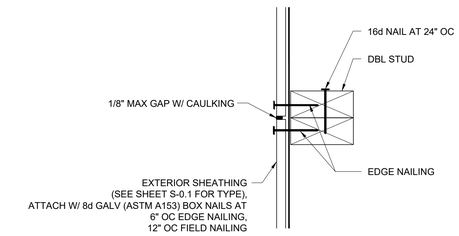
1




WALL SILL AT CONCRETE FLOOR SCALE : 3"=1'-0" 17

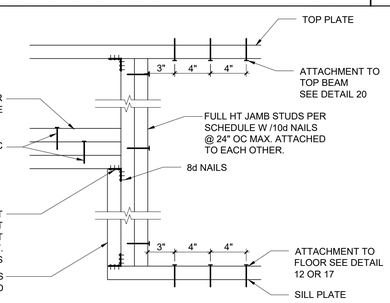



WALL SILL AT WOOD FLOOR SCALE : 3"=1'-0" 12

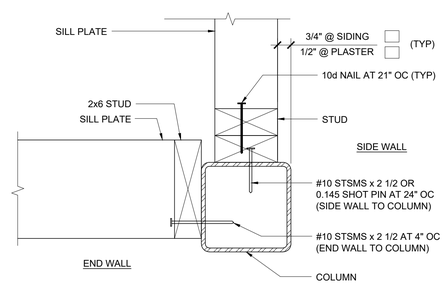



VERTICAL SHEATHING BUTT JOINT SCALE : 3"=1'-0" 7

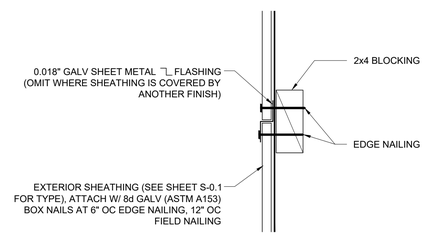
2




DOOR/WINDOW HEADER AND JAMB SCALE : 1 1/2"=1'-0" 18




WALL AT COLUMN SCALE : 3"=1'-0" 13



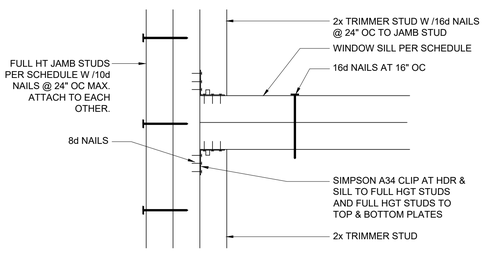

HORIZONTAL SHEATHING JOINT SCALE : 3"=1'-0" 8

| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| LESS THAN 9'-6" | 3070 | NO PLASTER | (1) | 2X4 | HF | #2 | | N/A | | | (2) | 2X4 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | | N/A | | | (2) | 2X4 | DF | #2 |
| | | PLASTER | (2 | 2X4 | DF | #2 | | N/A | | | (3) | 2X4 | DF | #2 |

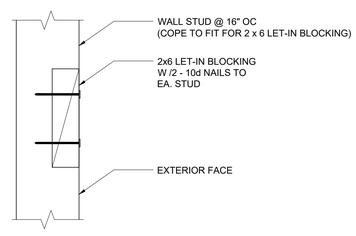
| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| 9'-6" TO 10'-6" | 3070 | NO PLASTER | (1) | 2X4 | HF | #2 | | N/A | | | (2) | 2X4 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | | N/A | | | (2) | 2X4 | DF | #2 |

NOTE:
OPENINGS LARGER THAN 3'x7' ARE NOT PERMITTED IN 2x4 WALLS WITH PLASTER FINISH.

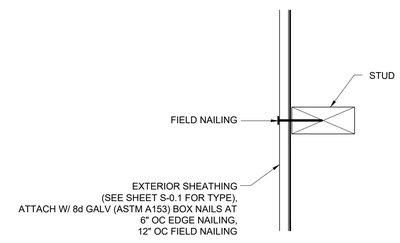
4




WINDOW SILL AND JAMB SCALE : 3"=1'-0" 19




LET-IN BLOCK ATTACHMENT SCALE : 3"=1'-0" 14

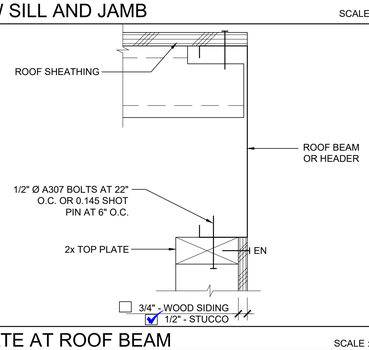



SECTION AT SHEATHING TO STUD ATTACHMENT SCALE : 3"=1'-0" 9

2x4 OPENING STUDS SCHEDULE 4

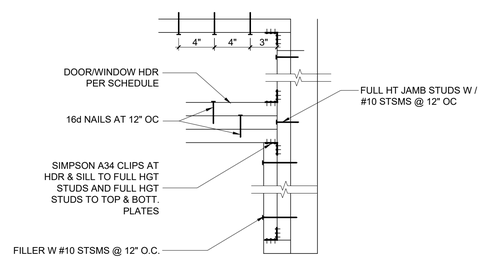
| COLUMN HEIGHT | EXT FINISH | WOOD WALL FRAMING | | | | | 4" CORNER OF WOOD WALL FRAMING (ZONE 5) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NUMBER | SIZE | LUMBER | TYPE | OC | NUMBER | SIZE | LUMBER | TYPE | OC |
| LESS THAN 9'-6" | NO PLASTER | (1) | 2X4 | HF | #2 | 16" OC | (1) | 2X4 | HF | #2 | 16" OC |
| | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | 16" OC | (1) | 2X4 | DF | #2 | 16" OC |
| | PLASTER | (1) | 2X4 | DF | #2 | 16" OC | (1) | 2X4 | DF | #2 | 10" OC |
| | | | | | | | | | | | |
| 9'-6" TO 10'-6" | NO PLASTER | (1) | 2X4 | HF | #2 | 16" OC | (1) | 2X4 | HF | #2 | 12" OC |
| | NO PLASTER (OPT) | (1) | 2X4 | DF | #2 | 16" OC | (1) | 2X4 | DF | #2 | 16" OC |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

NOTES:
1. 2X4 WALL FRAMING NOT PERMITTED FOR STUCCO FINISH WALLS OVER 9'-0" TALL
2. 2X4 EXTERIOR WALL FRAMING IS ONLY PERMITTED AT UNCONDITIONED RESTROOM MODULES
3. 2X4 INTERIOR WALLS SHALL BE HF #2 (OR BETTER) AND SHALL BE SPACED NOT MORE THAN 24" OC MAX




TOP PLATE AT ROOF BEAM SCALE : 3" = 1'-0" 20

NOT USED 15




DOOR/WINDOW HEADER @ COLUMN SCALE : 1 1/2"=1'-0" 10

2x4 WALL FRAMING SCHEDULE 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# WALL FRAMING DETAILS
## WOOD STUDS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

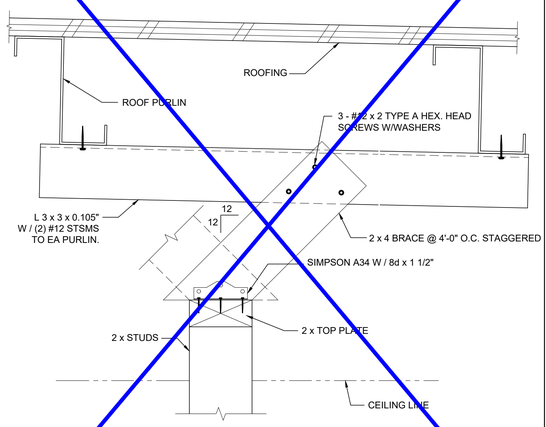
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

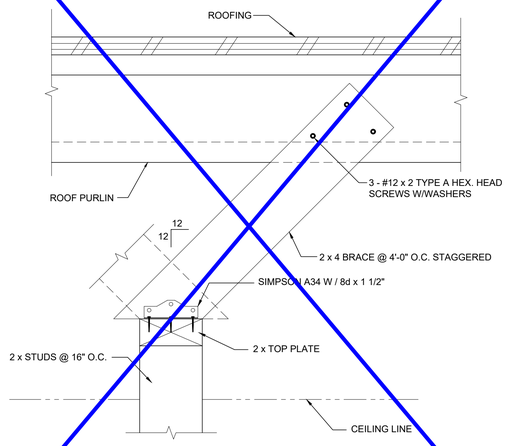
SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

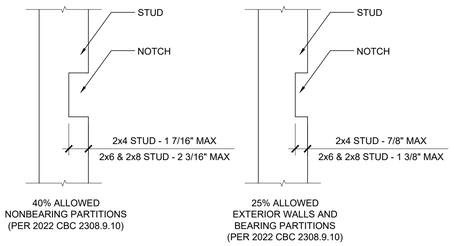
P.C. SHEET NUMBER
S-5.10

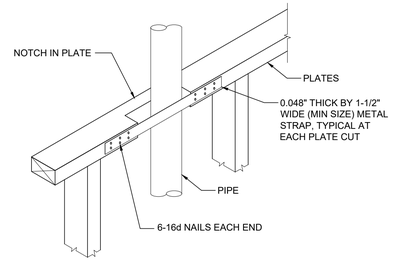



INTERIOR PARTITION SCALE : 3" = 1'-0" 14

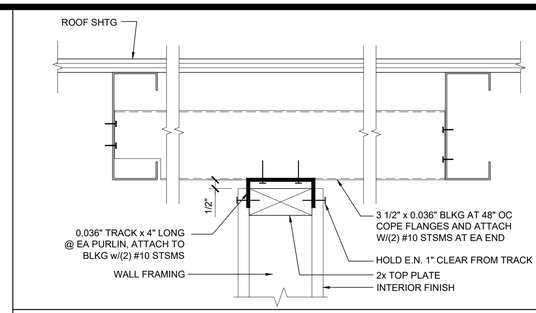



INTERIOR PARTITION SCALE : 3" = 1'-0" 12

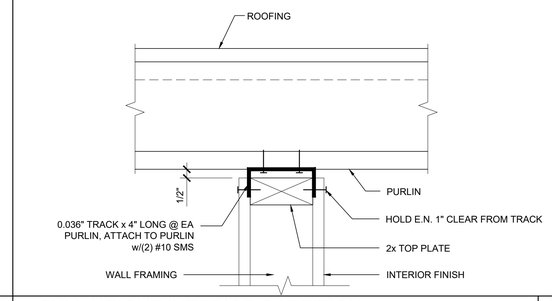


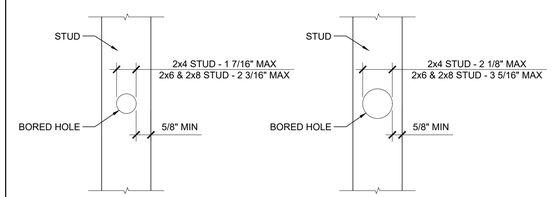

CUTTING AND NOTCHING SCALE : 1 1/2" = 1'-0" 7




FULL HEIGHT INTERIOR PARTITION SCALE : 3" = 1'-0" 1




FULL HEIGHT INTERIOR PARTITION SCALE : 3" = 1'-0" 2




BORED HOLES SCALE : 1 1/2" = 1'-0" 8

| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| UP TO 10'-6" | 3070 | ANY | (1) | 2X6 | HF | #2 | | N/A | | | (1) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | | N/A | | | (1) | 2X6 | DF | #2 |
| | 4070 | ANY | (1) | 2X6 | HF | #2 | | N/A | | | (1) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | | N/A | | | (1) | 2X6 | DF | #2 |
| | 6040 | ANY | (1) | 2X6 | HF | #2 | (1) | 2X6 | HF | #2 | (2) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | (1) | 2X6 | DF | #2 | (2) | 2X6 | DF | #2 |
| | 8040 | ANY | (1) | 2X6 | HF | #2 | (1) | 2X6 | HF | #2 | (2) | 2X6 | HF | #2 |
| | | ANY (OPT) | (1) | 2X6 | DF | #2 | (1) | 2X6 | DF | #2 | (2) | 2X6 | DF | #2 |

2x6 OPENING STUDS SCHEDULE 19

| COLUMN HEIGHT | OPENING SIZE | EXT FINISH | HEADER | | | | SILL | | | | FULL HEIGHT KING STUD | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE | NUMBER | SIZE | LUMBER | TYPE |
| UP TO 10'-6" | 3070 | NO PLASTER | (1) | 2X8 | HF | #2 | | N/A | | | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | | N/A | | | (1) | 2X8 | DF | #2 |
| | 4070 | NO PLASTER | (1) | 2X8 | HF | #2 | | N/A | | | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | | N/A | | | (1) | 2X8 | DF | #2 |
| | 6040 | NO PLASTER | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 |
| | 8040 | NO PLASTER | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 | (1) | 2X8 | HF | #2 |
| | | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 | (1) | 2X8 | DF | #2 |

2x8 OPENING STUDS SCHEDULE 14

| COLUMN HEIGHT | EXT FINISH | WOOD WALL FRAMING | | | | | 4' CORNER OF WOOD WALL FRAMING (ZONE 5) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NUMBER | SIZE | LUMBER | TYPE | OC | NUMBER | SIZE | LUMBER | TYPE | OC |
| UP TO 10'-6" | NO PLASTER | (1) | 2X6 | HF | #2 | 16" OC | (1) | 2X6 | HF | #2 | 16" OC |
| | NO PLASTER (OPT) | (1) | 2X6 | DF | #2 | 16" OC | (1) | 2X6 | DF | #2 | 16" OC |
| | W/ PLASTER | (1) | 2X6 | HF | #2 | 16" OC | (1) | 2X6 | HF | #2 | 16" OC |
| | W/ PLASTER (OPT) | (1) | 2X6 | DF | #2 | 16" OC | (1) | 2X6 | DF | #2 | 16" OC |

NOTE:
1. INTERIOR WALLS MAY BE 2x6 HF #2 (OR BETTER) SPACED AT NOT MORE THAN 24" OC.

2x6 WALL FRAMING SCHEDULE 20

| COLUMN HEIGHT | EXT FINISH | WOOD WALL FRAMING | | | | | 4' CORNER OF WOOD WALL FRAMING (ZONE 5) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NUMBER | SIZE | LUMBER | TYPE | OC | NUMBER | SIZE | LUMBER | TYPE | OC |
| UP TO 10'-6" | NO PLASTER | (1) | 2X8 | HF | #2 | 16" OC | (1) | 2X8 | HF | #2 | 16" OC |
| | NO PLASTER (OPT) | (1) | 2X8 | DF | #2 | 16" OC | (1) | 2X8 | DF | #2 | 16" OC |
| | W/ PLASTER | (1) | 2X8 | HF | #2 | 16" OC | (1) | 2X8 | HF | #2 | 16" OC |
| | W/ PLASTER (OPT) | (1) | 2X8 | DF | #2 | 16" OC | (1) | 2X8 | DF | #2 | 16" OC |

NOTES:
1. EXTERIOR STUD SPACING SHOWN IN THE TABLE ABOVE IS TYPICAL, HOWEVER 2x8 STUDS (HF #2 OR BETTER) MAY BE SPACED AT NOT MORE THAN 24" OC.
2. INTERIOR WALLS MAY BE 2x6 HF #2 (OR BETTER) SPACED AT NOT MORE THAN 24" OC.

2x8 WALL FRAMING SCHEDULE 15

10

5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# WALL FRAMING DETAILS
## WOOD STUDS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

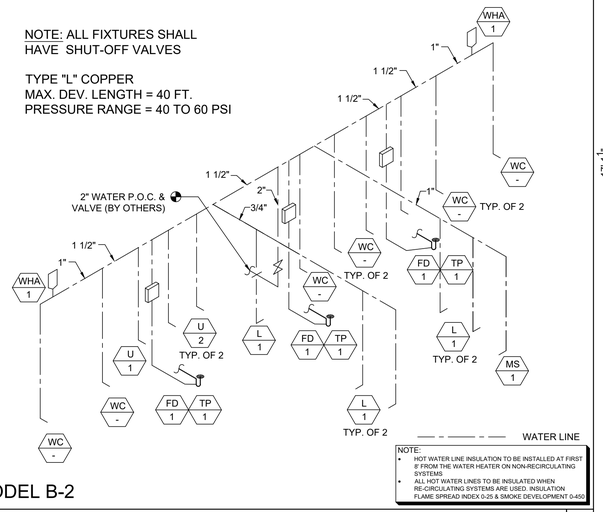
MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

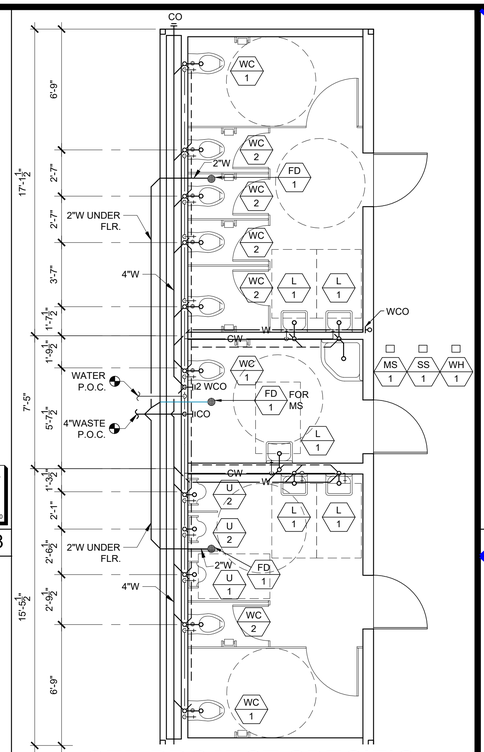
PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
S-5.11




MODEL B-2

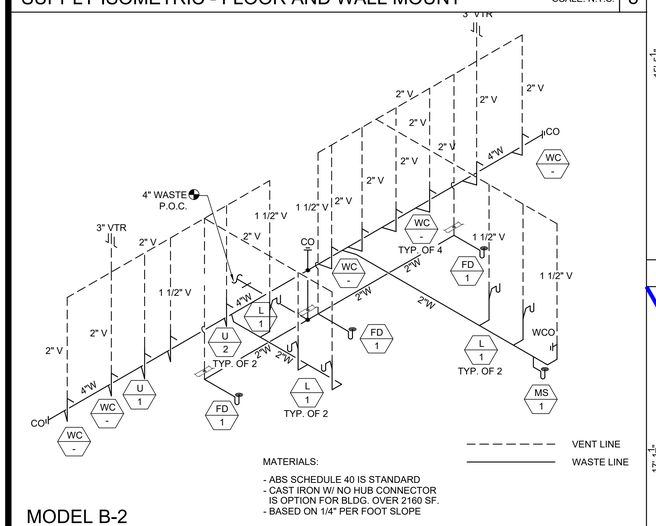
SUPPLY ISOMETRIC - FLOOR AND WALL MOUNT SCALE: N.T.S. 8




SEE PROJECT SPECIFIC

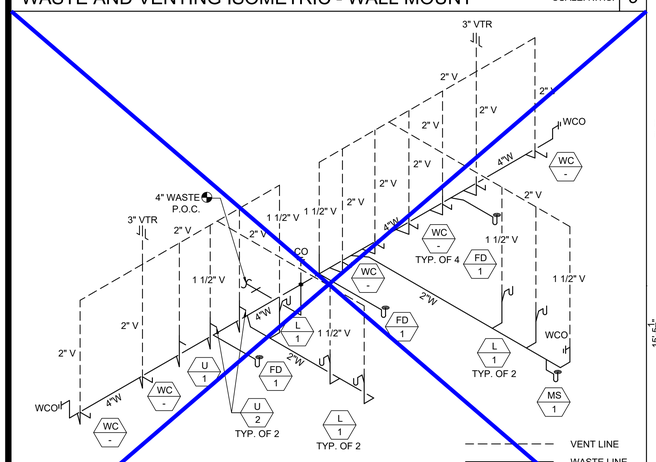
WALL MOUNT - MODEL B-2 (AGE ADULT)

PLUMBING PLAN SCALE: 1/4" = 1-0" 6



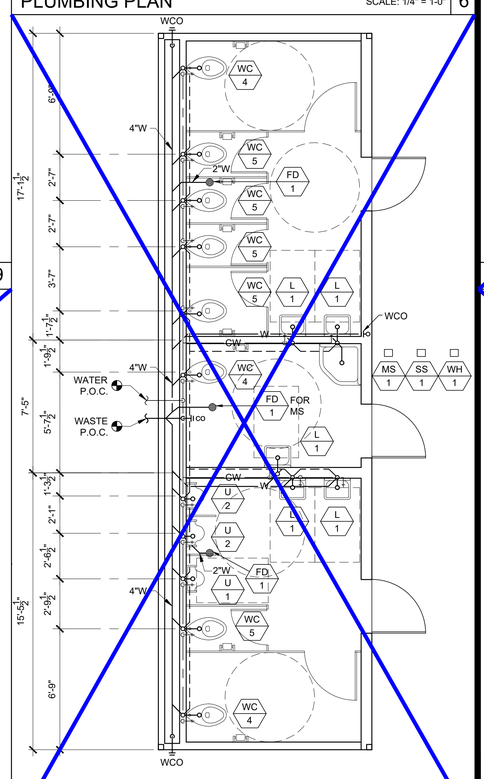

MODEL B-2

WASTE AND VENTING ISOMETRIC - WALL MOUNT SCALE: N.T.S. 9



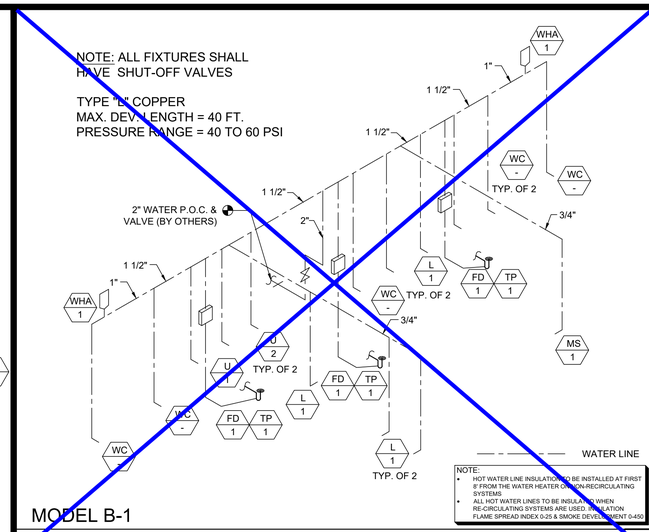

MODEL B-2

WASTE AND VENTING ISOMETRIC - FLOOR MOUNT SCALE: N.T.S. 10



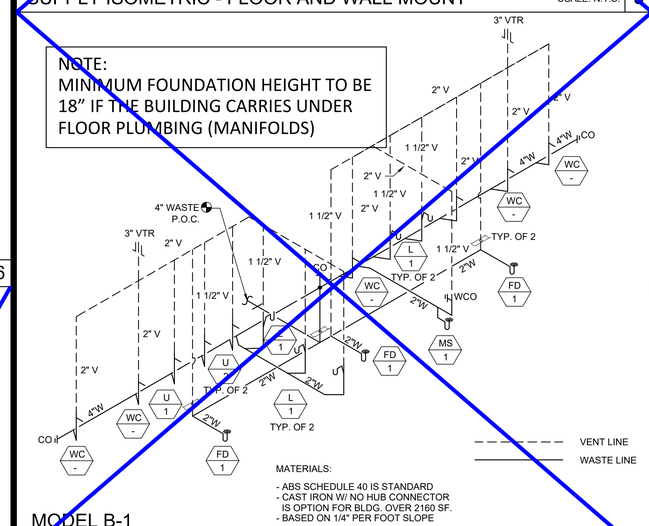

FLOOR MOUNT - MODEL B-2 (AGE - ADULT)

PLUMBING PLAN SCALE: 1/4" = 1-0" 7



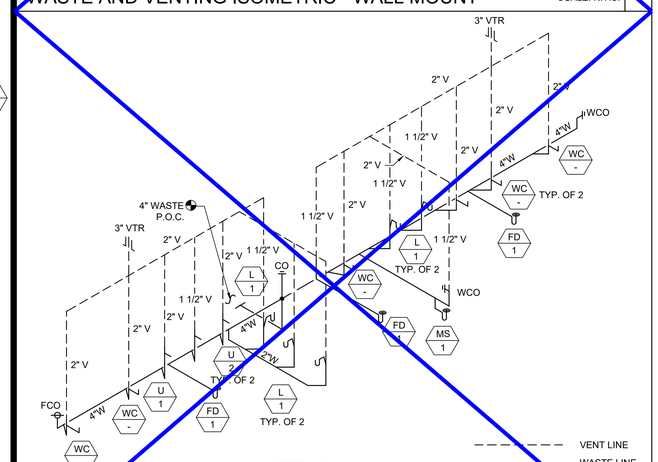

MODEL B-1

SUPPLY ISOMETRIC - FLOOR AND WALL MOUNT SCALE: N.T.S. 3



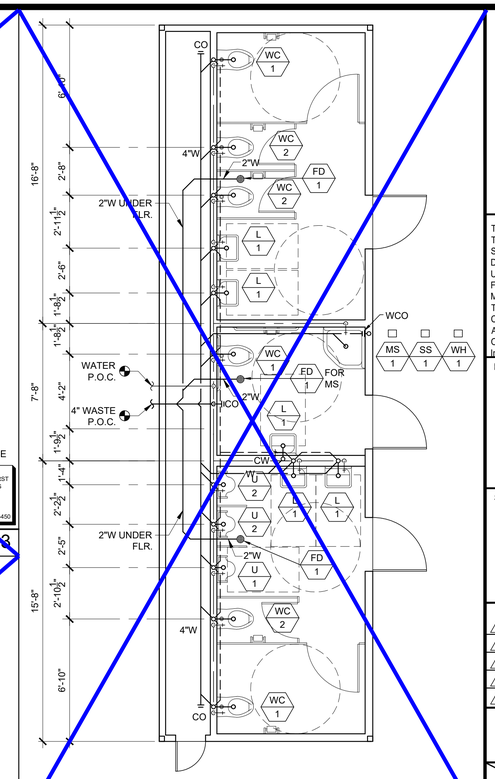

MODEL B-1

WASTE AND VENTING ISOMETRIC - WALL MOUNT SCALE: N.T.S. 4



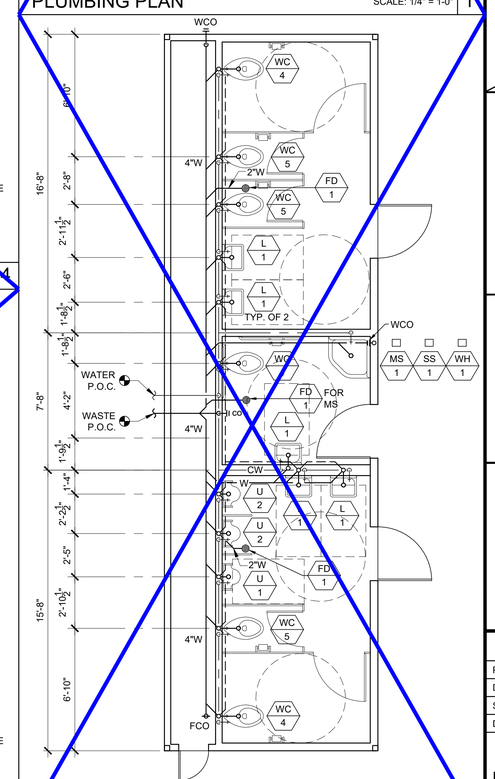

MODEL B-1

WASTE AND VENTING ISOMETRIC - FLOOR MOUNT SCALE: N.T.S. 5




WALL MOUNT - MODEL B-1 (AGE ADULT)

PLUMBING PLAN SCALE: 1/4" = 1-0" 1




FLOOR MOUNT - MODEL B-1 (AGE - ADULT)

PLUMBING PLAN SCALE: 1/4" = 1-0" 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# PLUMBING PLAN
## AND ISOMETRICS
## MODEL B-1 OR B-2
## "ADULT"

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER
JOHN W STARLING
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

P-1.02A

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

| ACCESSIBILITY DIMENSIONS | 11B-604.9 SUGGESTED DIMS | | | |
|---|---|---|---|---|
| | ADULT | AGES 9 THROUGH 12 | AGES 5 THROUGH 8 | AGES 3 AND 4 |
| TOILET CENTERING FROM WALL | 17" - 18" | 15" - 18" | 12" - 15" | 12" |
| TOILET SEAT HEIGHT (DIM TO TOP OF SEAT) | 17" - 19" | 15" - 17" | 12" - 15" | 11" - 12" |
| GRAB BAR HEIGHT (TO TOP) | 33" - 36" | 25" - 27" | 20" - 25" | 18" - 20" |
| TOILET PAPER IN FRONT OF TOILET | 7" - 9" | 7" - 9" | 7" - 9" | 7" - 9" |
| NAPKIN DISPOSAL | ★★ | ★★ | N/A | N/A |
| MIRROR HEIGHT (TO BOTTOM OF GLASS) | 40" MAX. | 40" MAX. | 36" MAX. | 32" MAX. |
| DISPENSER HEIGHT | 19" MIN. | 17" - 19" | 14" - 17" | 14" |
| LAVATORY/SINK TOP HEIGHT | 34" MAX. | 31" MAX. | 31" MAX. | 24" MAX. / 31" MAX. SIDE APPROACH |
| LAVATORY/SINK KNEE CLEARANCE | 27" MIN. | 24" MIN. | 24" MIN. | SIDE APPROACH |
| URINAL LIP HEIGHT | 17" MAX. | 17" MAX. | 15" MAX | 13" MIN. |
| URINAL FLUSH HANDLE HEIGHT | 44" MAX. | 44" MAX. | 37" MAX.* | 32" MAX.* |
| DRINKING FOUNTAIN BUBBLER HT. (LOW) | 36" MAX. | 30" MAX. | 30" MAX. | 30" MAX. |
| DRINKING FOUNTAIN KNEE CLEARANCE | 27" MIN. | SIDE APPROACH | SIDE APPROACH | SIDE APPROACH |
| HANDRAIL HEIGHT (TO TOP) | 34" - 38" | 34" - 38" | 34" - 38" | 34" - 38" |

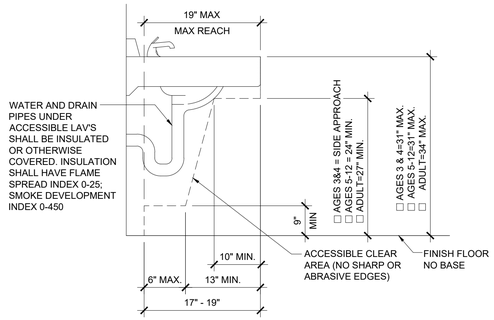
| STANDARD DIMENSIONS | ALTERNATE HEIGHT (DIMS) | | | |
|---|---|---|---|---|
| | ADULT | AGES 9 THROUGH 12 | AGES 5 THROUGH 8 | AGES 3 AND 4 |
| TOILET CENTERING FROM WALL/PARTITION | 15" MIN | 15" MIN | 15" MIN | 15" MIN |
| TOILET SEAT HEIGHT/DIM TO TOP OF SEAT | 15" | 15" | 15" | 15" |
| TOILET CLEARANCE/FRONT | 24" | 24" | 24" | 24" |
| URINAL LIP HEIGHT | 24" | 24" | 18" | 16" |
| URINAL CENTER FROM WALL/PARTITION | 12" | 12" | 12" | 12" |

## PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

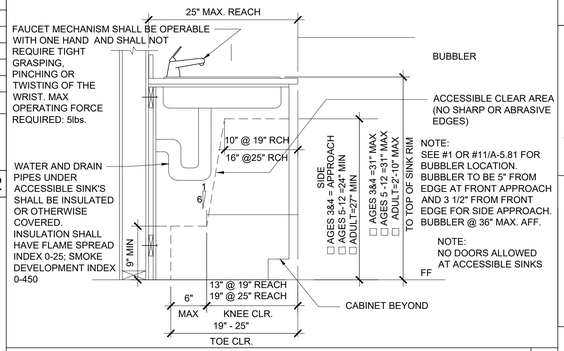
- A — SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION
- B — PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE
- C — TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION
- D — TOILET SEAT DISPENSER: SURFACE MOUNTED

★ 44" MAX. PER CODE
★★ MOUNTED BETWEEN BACK WALL AND TOILET PAPER DISP.

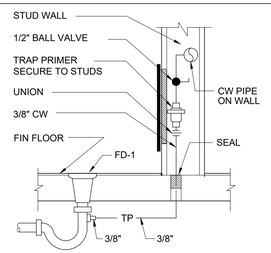
## MOUNTING HEIGHTS TABLE 12



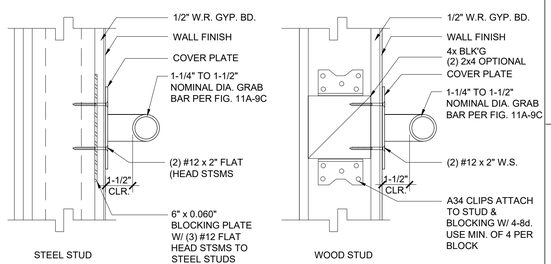

## ACCESSIBLE LAV CLEARANCE SCALE: N.T.S. 6



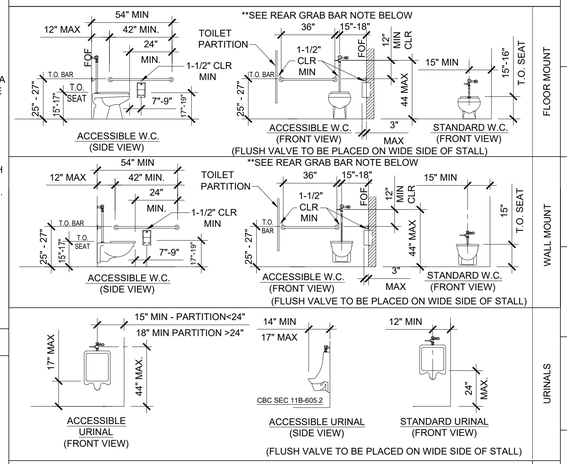

## ACCESSIBLE SINK CABINET (OPTION) SCALE: N.T.S. 7



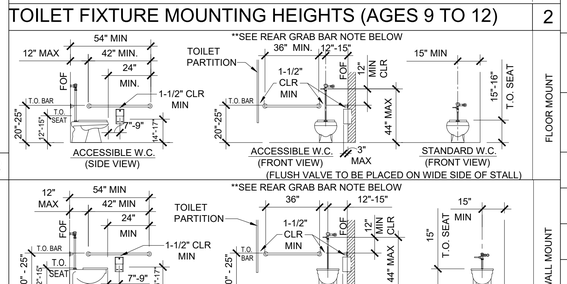

## TRAP PRIMER TO FLOOR DRAIN SCALE: N.T.S. 8



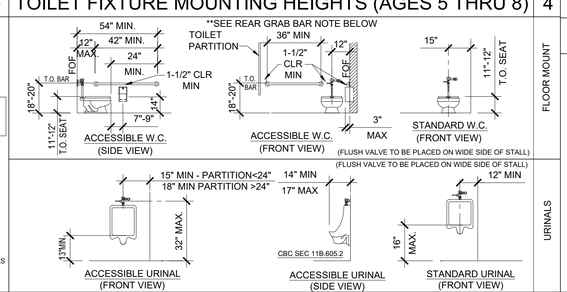

## GRAB BAR CONNECTION DETAIL 9




## TOILET FIXTURE MOUNTING HEIGHTS (AGES 9 TO 12) 2




## TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 4

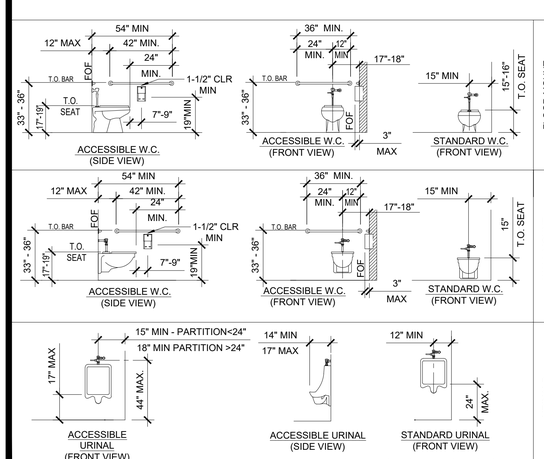



## TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 5

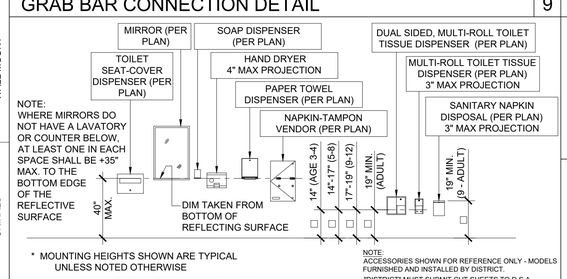
| SYMBOL | FIXTURE | COLD WATER | HOT WATER | WASTE | VENT | FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL) |
|---|---|---|---|---|---|---|
| WC 1 | [ ADULT] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER |
| WC 2 | [ AGE 5 TO ADULT ] WATER CLOSET WALL MTD/ FLUSH (NON-ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER |
| WC 3 | [ AGE 5 TO 12] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #115-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER |
| WC 4 | [ ADULT ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO PF1723 (1.28 GPF) ALT: AMERICAN STD 3043.001 "MADERA" 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 5 | [ AGE 5 TO ADULT ] WATER CLOSET FLOOR MTD/FLUSH (NON-ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 6 | [ AGE 9-12 ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #115-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 7 | [ AGE 5-8 ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE) | 1" | - | 3" | 2" | AMERICAN STANDARD 2599.001 MADERA YOUTH (1.28 GPF) 14" HIGH, VITREOUS CHINA ELONG. RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR ELONGATED WHITE PLASTIC SEAT; SLOAN ROYAL #115-1.28 LOW CONSUMPTION FLUSHOMETER VALVE |
| WC 8 | [ AGE 3-4 ] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE & NON-ACCESSIBLE) | 1" | - | 3" | 2" | STD: PROFLO PF1700BB (1.28 GPF) ALT: AMERICAN STANDARD BABY DEVORO 2282.010 VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 126CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE |
| LAV 1 | LAVATORY (ACCESSIBLE) | 1/2" | - | 2" | 1 1/2" | STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1-412V "HARWICH" 20X18" VITREOUS CHINA; JAY R SMITH #722 CONCEALED HANGER; OLYMPIA #6161 SINGLE HANDLE FAUCET (0.5 GPM) |
| UR 1 | URINAL (ACCESSIBLE) | 3/4" | - | 2" | 1 1/2" | STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.501 VITREOUS CHINA, WALL HUNG, SIPHON JET URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE |
| UR 2 | URINAL (NON-ACCESSIBLE) | 3/4" | - | 2" | 1 1/2" | STD: PROFLO PF 1815 (0.125 GPF) ALT: AMERICAN STANDARD 6550.501 WASHOUT VITREOUS CHINA, WALL HUNG URINAL WITH INTEGRAL TRAP; SLOAN REGAL 186-0.125 LOW CONSUMPTION FLUSHOMETER VALVE |
| FD 1 | FLOOR DRAIN | - | - | 2" | 1 1/2" | JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS |
| TP 1 | TRAP PRIMER | 1/2" | - | - | - | PR-500 WITH 8"x12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM |
| WHA 1 | WATER HAMMER ARRESTOR | 1" | - | - | - | PPP SC-1000 |
| GB 1 | GRAB BAR | - | - | - | - | BOBRICK B-6806-1-1/2 OC STAINLESS STEEL GRAB BAR - SATIN FINISH; 36" LONG ON BACK AND 42" ON SIDE |
| MR 1 | MIRROR | - | - | - | - | SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18GA 18"x24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL |
| PAR 1 | TOILET PARTITION | - | - | - | - | METAL POWDER COATED |
| SS 1 | SERVICE SINK | 1/2" | 1/2" | 2" | 1 1/2" | KOHLER K-6714 "BANNON" 22"x18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672.2".I.P.S. TRAP |
| MS 1 | MOP SINK | 1/2" | 1/2" | 2" | 1 1/2" | AMERICAN STANDARD #7741.000 28"x28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER |
| CS 1 | CLASSROOM SINK (OPTION) | 1/2" | 1/2" | 2" | 1 1/2" | JUST CRA-1725-A-GR 17"x25" w/ 4 1/2" BOWL DEPTH, WITH CHICAGO FAUCET #350 AND BUBBLER JSB-10 |
| WH 1 | INSTANT WATER HEATER | 1/2" | 1/2" | - | - | EEMAX #SP3012, 120V, 3.0 KW, 25A |
| DF 1 | DRINKING FOUNTAIN | 1/2" | - | 2" | 1 1/2" | HALSEY-TAYLOR / BI-LEVEL HAC8FSBL-Q / COOLING TYPE |

★★ NOTE:
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF THE TOILET AREA WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE.

## PLUMBING FIXTURE SCHEDULE A




## TOILET FIXTURE MOUNTING HEIGHTS (ADULT) 15




* MOUNTING HEIGHTS SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE
MAXIMUM 4" PROJECTION FOR ALL ACCESSORIES (UNO)

NOTE:
ACCESSORIES SHOWN FOR REFERENCE ONLY - MODELS FURNISHED AND INSTALLED BY DISTRICT.
"DISTRICT" MUST SUBMIT CUT SHEETS TO D.S.A. FOR REVIEW/COMMENT/APPROVAL.

## TOILET ACCESSORIES MOUNTING HEIGHTS 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL


THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.


PROJECT NAME:

SHEET TITLE:

# PLUMBING DETAILS AND SCHEDULE

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122900 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL


Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211


MODULAR BUILDING DESIGN PROFESSIONAL

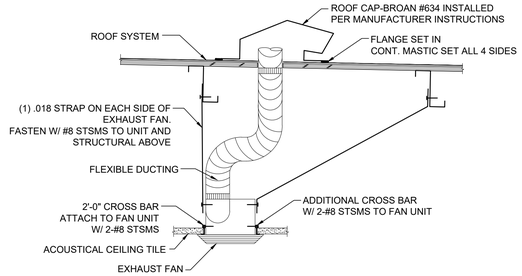
REGISTERED PROFESSIONAL ENGINEER JOHN 'N STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023
P.C. SHEET NUMBER
P-2.01

## LEGEND

| SYMBOL | ABB. | DESCRIPTION |
|---|---|---|
| | SAD | SUPPLY AIR DUCT |
| | RAD | RETURN AIR DUCT |
| | EAD | EXHAUST AIR DUCT |
| | (L) | LINED DUCTWORK |
| | CD | SUPPLY CEILING DIFFUSER |
| | CR | RETURN CEILING REGISTER |
| | ER | EXHAUST CEILING REGISTER |
| | VTR | VENT THRU ROOF |
| | FD | FIRE DAMPER |
| | MVD | MANUAL VOLUME DAMPER |
| UC | UC | UNDERCUT DOOR |
| T | STAT | THERMOSTAT |
| BT | BT | BYPASS TIMER |
| | P.O.C | POINT OF CONNECTION |




EXHAUST FAN INSTALLATION — SCALE : 1"=1'-0"

## CEILING MOUNTED EXHAUST FAN SCHEDULE

| SYM. | LOCATION | SERVICE | MANUF. | MODEL | CFM | SONES | SP | ELECTRICAL VOLTS | Ø | POWER | WGT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF 1 | CEILING | TOILET EXHAUST | BROAN* | 676 | 100 | 4.0 | 0.25 | 120 | 1 | 156 WATTS | 7 LBS. | WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH. |
| EF 2 | CEILING | TOILET EXHAUST | BROAN* | L100 | 109 | 1.0 | 0.25 | 120 | 1 | 87 WATTS | 22.80 LBS. | WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH. |
| EF 3 | CEILING | TOILET EXHAUST | BROAN* | L200 | 210 | 2.0 | 0.25 | 120 | 1 | 127 WATTS | 23.0 LBS. | WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH. |
| EF 4 | CEILING | TOILET EXHAUST | BROAN* | L300 | 308 | 2.8 | 0.25 | 120 | 1 | 212 WATTS | 23.10 LBS. | WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH. |

OR APPROVED EQUAL.

## MEP COMPONENT ANCH. NOTE:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPOORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.C

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRAVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

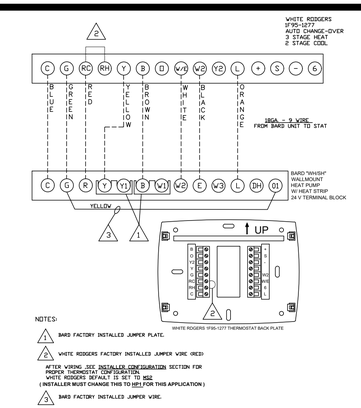
PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION QUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF THE DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD ☒PP ☐ E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

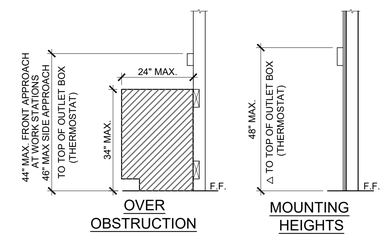
MP☐ MD☐PP ☐ E☐ OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM #) #----------.




NOTES:

1. BARD FACTORY INSTALLED JUMPER PLATE.
2. WHITE RODGERS FACTORY INSTALLED JUMPER WIRE (RED)
   AFTER WIRING ,SEE INSTALLER CONFIGURATION SECTION FOR PROPER THERMOSTAT SETTINGS.
   ( RED JUMPER ONLY USED IF UNIT TO HEAT
   ( INSTALLER MUST CHANGE THIS TO HP1 FOR THIS APPLICATION )
3. BARD FACTORY INSTALLED JUMPER WIRE.

UNIT TO THERMOSTAT WIRING — SCALE: NONE — A




OVER OBSTRUCTION

MOUNTING HEIGHTS

△ PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc.

PROJECT NAME:

SHEET TITLE:

# MECHANICAL NOTES, SCHEDULES, & DETAILS

REVISIONS

1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122800 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

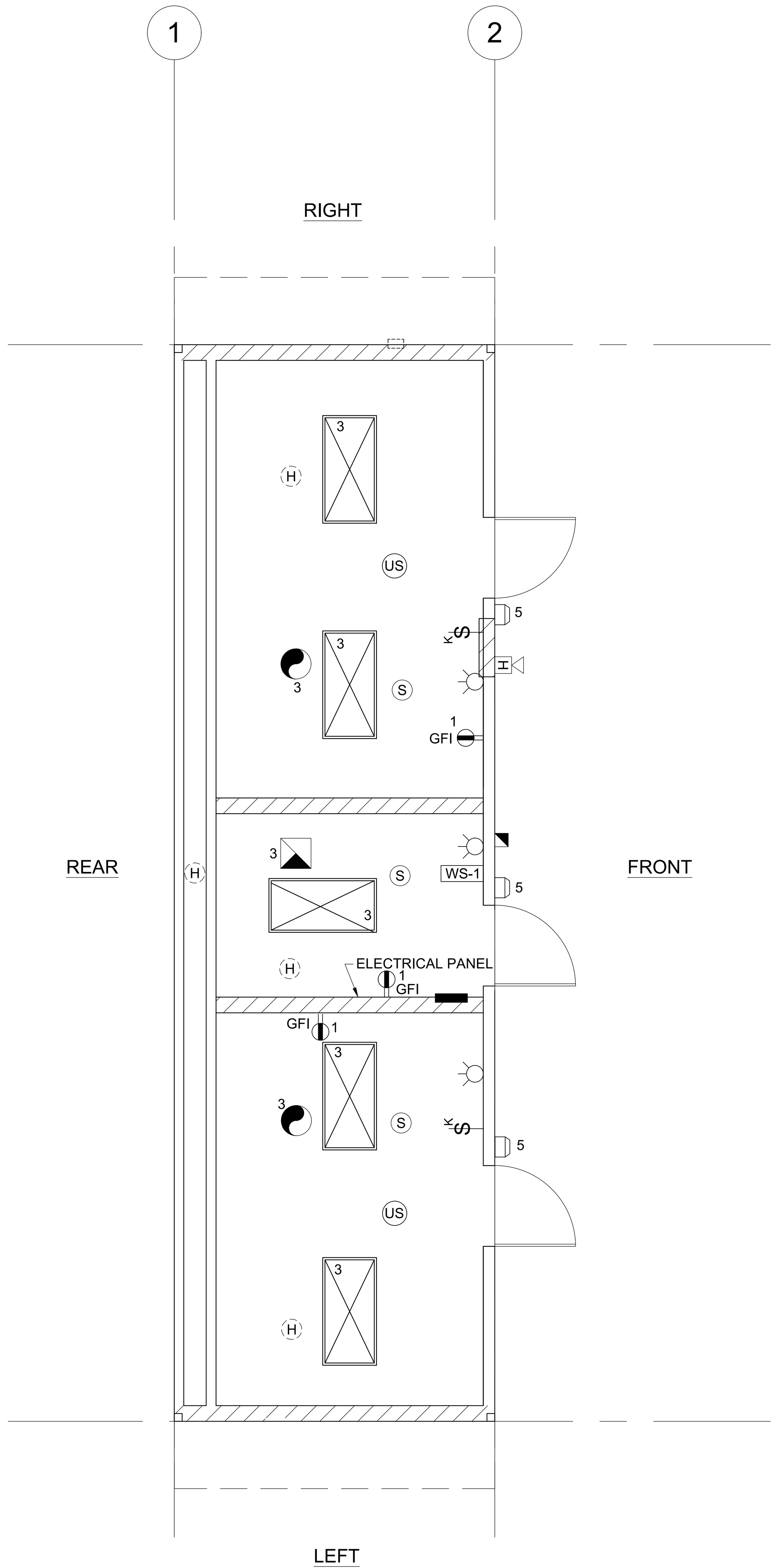
REGISTERED PROFESSIONAL ENGINEER
JOHN W STARULA
2475
STRUCTURAL
STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

| | |
|---|---|
| PROJECT NO: | |
| DRAWN BY: | |
| SCALE: | AS NOTED |
| DATE: | 02-27-2023 |

P.C. SHEET NUMBER

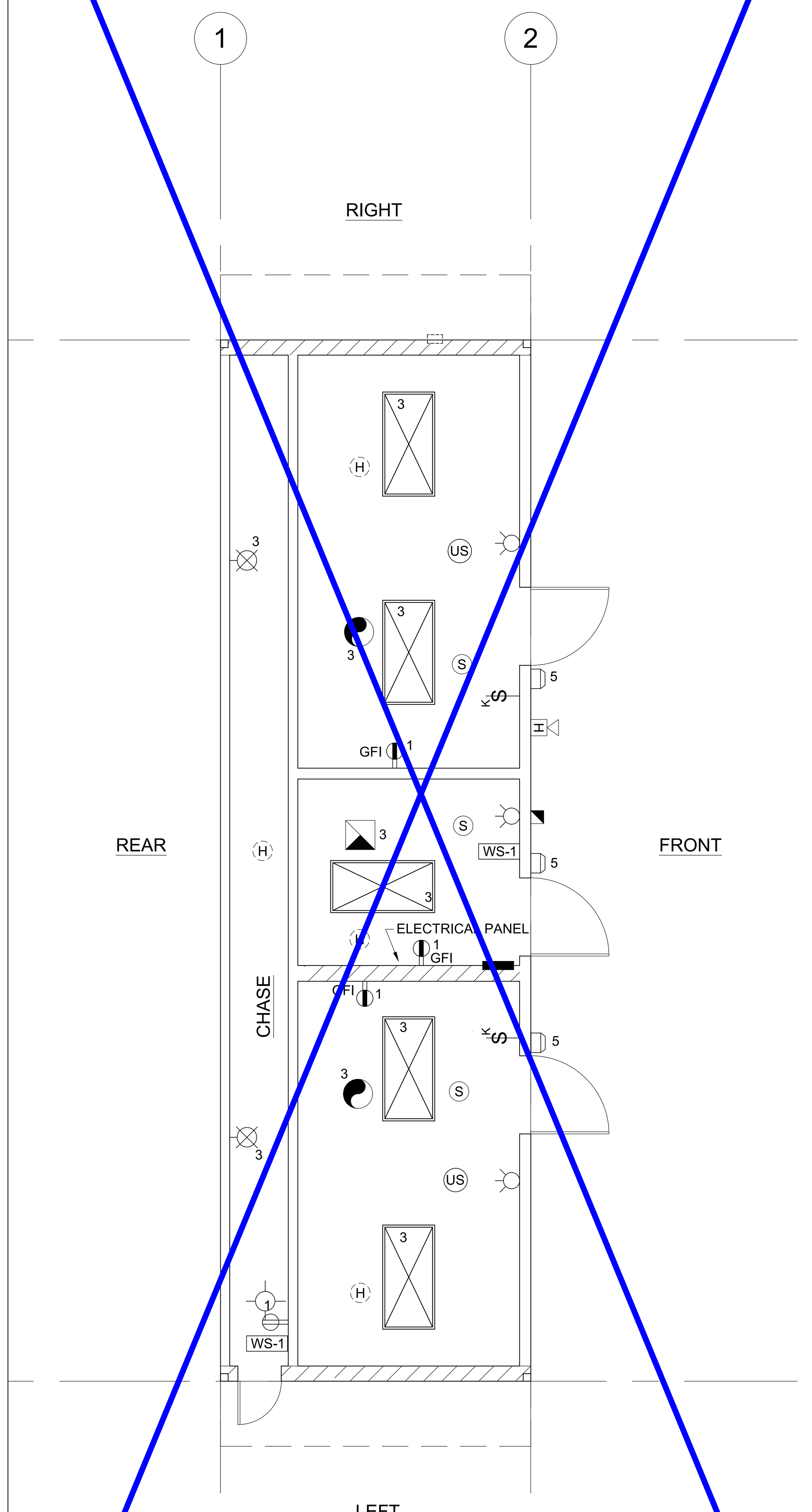
M-0.1



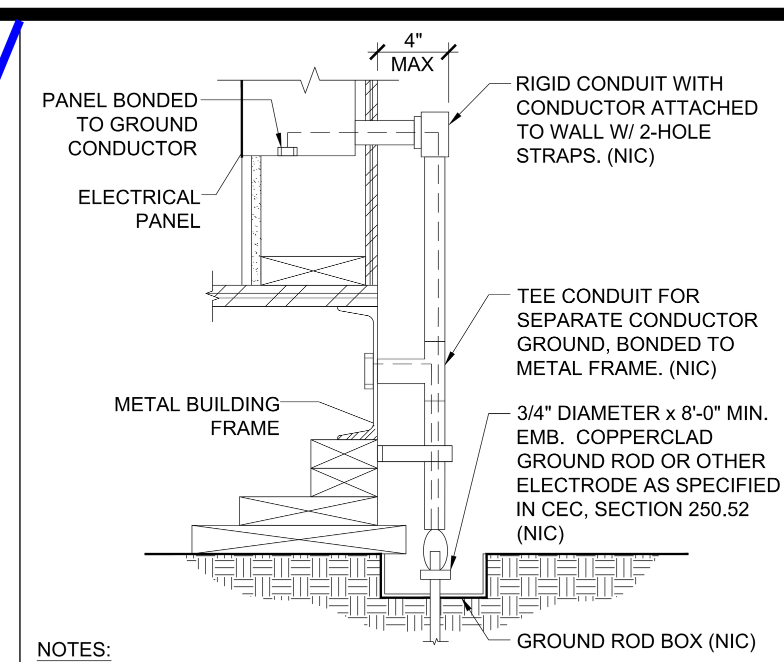

NOTE;
PROVIDE ACCESS TO HEAT DETECTOR
WHEN PROVIDED.

SEE PROJECT SPECIFIC

ELECTRICAL PLAN - MODEL B-2 SCALE: 1/4" = 1'-0" 5



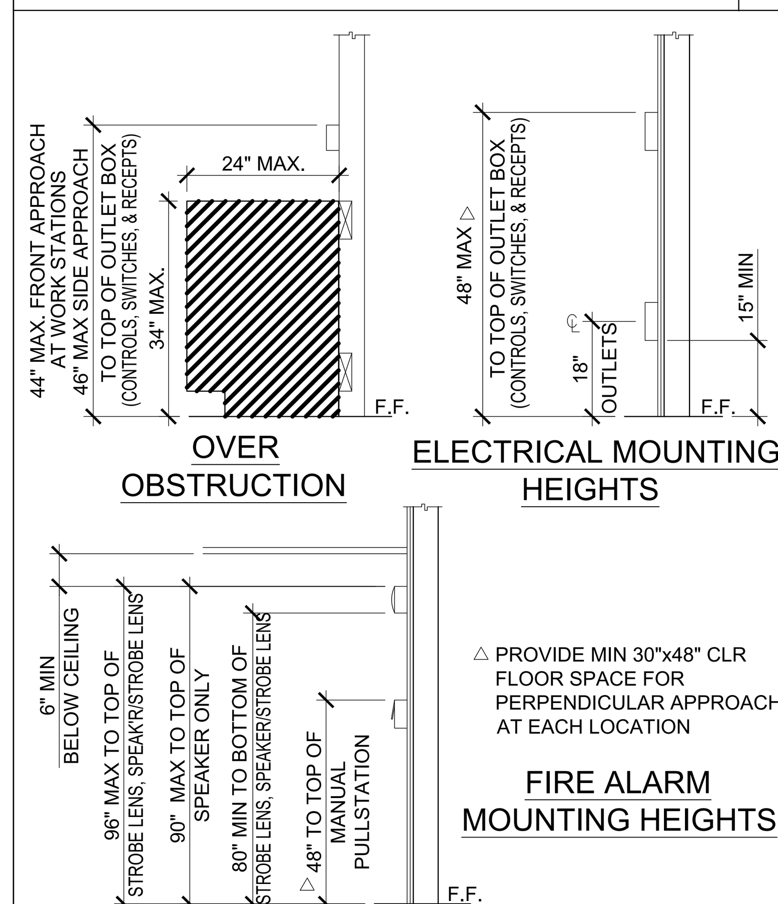

ELECTRICAL PLAN - MODEL B-1 4



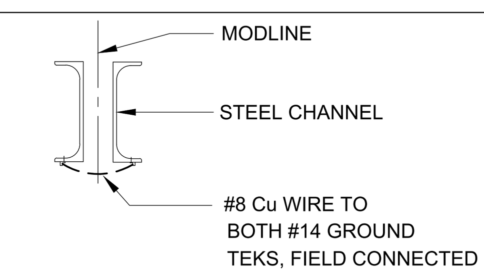

NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

## TYPICAL GROUNDING DETAIL 1




## ACCESSIBLE HEIGHTS 2




## GROUND JUMPER AT MODLINE 3

GROUND JUMPER AT MODLINE

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

## SCHOOL EQUIPMENT ANCHORAGE

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3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

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THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPA FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP MD☐ PP☐ E☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

## FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72 SECTION 10.6.5.2

## CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 90°C. COPPER)

| WIRE SIZE | CAPACITY | WIRE TYPE | NO. OF CONDUCTOR PERMITTED 1/2" C | 3/4" C | 1" C | 1 1/4" C |
|---|---|---|---|---|---|---|
| #12 | 20A | THHN | 9 | 16 | 25 | 45 |
| #10 | 30A | THHN | 5 | 10 | 16 | 28 |
| #8 | 45A | THHN | 2 | 5 | 8 | 14 |
| #6 | 65A | THHN | 1 | 3 | 5 | 10 |
| #4 | 85A | THHN | 1 | 2 | 4 | 7 |

## JUNCTION BOX SIZE TABLE

| BOX | SIZE | CU. IN. | MAX NO. OF CONDUCTORS #12 | #10 | #8 | #6 |
|---|---|---|---|---|---|---|
| 4SS | 1 1/4" x 4" SQ | 18.0 | 8 | 7 | 6 | 0 |
| 4S | 1 1/2" x 4" SQ | 21.0 | 9 | 8 | 7 | 0 |
| 4SD | 2 1/8" x 4" SQ | 30.3 | 13 | 12 | 10 | 6 |
| 4SX | 2 7/8" x 4" SQ | 43.5 | 23 | 21 | 17 | 10 |
| 5SD | 2 1/8" x 4-11/16" SQ | 42.0 | 18 | 16 | 14 | 6 |
| 5SX | 3 7/8" x 4-11/16" SQ | 86.0 | 38 | 34 | 28 | 17 |
| 664 | 4" x 6" SQ | 144.0 | 64 | 57 | 48 | 28 |

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

## LEGEND

- 2x4 SURFACE MOUNTED OR RECESSED LED LIGHT FIXTURE, DIMMABLE, 51 WATTS (MAX), 5000L (MIN)
- LED WALL PACK LIGHT FIXTURE, 30 WATTS
- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT (U.N.O.)
- OS — CEILING MOUNTED OCCUPANCY SENSOR
- PC — CEILING MOUNTED PHOTOCELL
- US — ULTRASONIC CEILING OCCUPANCY SENSOR. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- WS-1 — SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF
- $^D$ — DIMMER SWITCH, AT +48" AFF. TO TOP OF OUTLET BOX
- $ — LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $^3$ — 3-WAY LIGHT SWITCH. MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- $^K$ — KEYED SWITCH MOUNT AT +48" AFF TO TOP OF OUTLET BOX
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A - 125V - 3 WIRE. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF DEVICE
- WP — EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24 " AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- GFI — GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- ROOF — ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- EM — EXTERIOR LED LIGHT FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP WHEN 'EM' IS DESIGNATED NEXT TO FIXTURE W/ PHOTOCELL W/ 30w MAX. MOUNT AT +93" AFF
- CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXIT — EXIT SIGN WITH 90 MIN. BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. CLASSROOMS WITH ONE EXTERIOR DOOR - OPTIONAL)
- 4SD J-BOX FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF OUTLET BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULL STRING
- 4SD J-BOX FOR FIRE ALARM STROBE OR VOICE EVAC SPEAKER (DEVICE BY OTHERS). BOTTOM OF LENS SHALL BE BETWEEN 80" AND 96" AFF AND WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULL STRING
- H — 4SD J-BOX FOR EXTERIOR FIRE ALARM SPEAKER (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULL STRING
- RECESSED 4SD J-BOX W / COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULL STRING
- S — 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- H — 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- WH — 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- 300 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

## ELECTRICAL PANEL

VOLTS: 120/208 V — PANEL: "A" (B-1 & B-2) — FEED: REAR
MAIN: 100A — LOCATION: INTERIOR ACCESS — MOUNTING: RECESSED

| LOAD | QTY | WATTS AØ | WATTS BØ | BREAKER Amps | P | Circuit | A | B | Circuit | BREAKER Amps | P | WATTS AØ | WATTS BØ | QTY | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPTACLES / GFI | 4 | 720 | | 20 | 1 | 1 | ● | | 2 | | | | | | |
| INTERIOR LIGHTING/EXHAUST FAN | 9 | | | | | | | | | | | | | | |
| EXTERIOR LIGHTING | 2 | | | | | | | | | | | | | | |
| EMPTY | | | | | | 7 | | ● | 8 | | | | | | |
| DED - SOLAR READY | | | | | | 9 | ● | | 10 | | | | | | |
| DED - SOLAR READY | | | | | | 11 | | ● | 12 | | | | | | |
| | | | | | | 13 | ● | | 14 | 20 | 1 | | 40 | | FIRE ALARM CONTROL PANEL, SEE FIRE ALARM NOTE #2 |
| A = 804 WATTS / PHASE | | 804 | 585 | | | | | | | | | | 40 | | B = 625 WATTS / PHASE |
| TOTAL 1429 WATTS | | 6.87 AMPS | | 120/208 VOLTS | | | 1 Ø | | | | | | | | 3 WIRE |

SEE PROJECT SPECIFIC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT NAME:

SHEET TITLE:

# ELECTRICAL PLAN AND SCHEDULE MODEL B-1 OR B-2

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122000 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/25/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
12' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023
P.C. SHEET NUMBER

E-1.02

# GENERAL NOTES:

## APPLICABLE BUILDING CODE

All construction and workmanship shall conform to the 2022 California Building Code, California Code of Regulations – Title 24, Parts 1 & 2.

This pole and foundation standard has been designed for lateral loads on the completed structure as follows:

Wind Design Data:
- Vult = 95 MPH (Exposure C); Vasd = 74 MPH (Exposure C)
- Risk Category = II
- See Pole Foundation Schedule for maximum pole wind forces.

Seismic Design Data:
- $I_e$ = 1.0
- Risk Category = II (Self Supporting Poles)
- $S_s$ = 1.86
- $S_1$ = 0.73
- Site Class = D
- $S_{ms}$ = 1.3
- $S_{ds}$ = 1.53
- Seismic Design Category = D
- Basic Seismic-Force-Resisting System = Non-Building Structure, not similar to buildings
- $C_s$ = 0.419 (60B); 0.359 (70C); 0.526 (80B). (STRENGTH LEVEL)
- R = 1.5
- $\Omega$ = 1.5
- Analysis Procedure = Equivalent Lateral Force Procedure
- See Pole Foundation Schedule for maximum pole seismic forces.

## GENERAL CONSTRUCTION

These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Registered Design Professional (RDP) in Responsible Charge.

Contractor must check all dimensions, clearances and job conditions before starting work. The RDP in Responsible Charge shall be notified immediately of any discrepancies or possible deficiencies.

The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc., is the sole responsibility of the Contractor. Observation visits to the job site by the RDP in Responsible Charge do not include inspection of construction procedures. The Contractor is solely responsible for all construction methods and for safety conditions at the worksite. These visits by RDP in Responsible Charge shall not be construed as continuous and detailed inspections.

Design, material, equipment, and products other than those described below or indicated on the drawings may be considered for use, provided prior approval is obtained from the School District, the RDP in Responsible Charge, and DSA.

All changes to the approved plans after a contract for construction has been awarded, affecting structural, access or life-safety portions of the project, shall be made by means of construction change documents (CCD) approved by DSA, as required by Section 4-338, Part 1, Title 24, CCR. All CCD shall be prepared and signed by the RDP in general Responsible Charge.

Substitutions shall be considered as a CCD and shall be approved by DSA prior to fabrication or use.

A Class 1 or Class 2 Project Inspector employed by the School District (Owner) and approved by DSA shall provide continuous inspection of the work, the duties of the Inspector are defined in Section 4-342, Part 1, Title 24, CCR.

All Tests And Inspections shall be performed by an Independent lab employed by the School District and approved by DSA.

Reference pole location on the Architectural, Structural, and/or Electrical drawings for actual pole placement and site location. Pole shall be located 5'-0" min. from adjacent structures below 50'-0" A.G.L., unless noted otherwise.

## LIGHT POLE FOUNDATIONS

Reference geotechnical report prepared by NV5, Dated October 8, 2025; Project no. 1400125-0009800.00.

Allowable Vertical soil Capacity – 150 PSF (Skin Friction).

Allowable Lateral Bearing capacity: 100 PSF/FT to maximum 3,000 PSF. Ignore upper 1 ft of soil.

A representative of NV5 should be available at the time of the foundation installation to verify the soil design parameters and to provide assistance if any problems arise in foundation installation.

The Contractor must familiarize himself with the complete geotechnical report, and borings and contact the above firm to understand the soil conditions and the possibility of ground water pumping and excavation stabilization or bracing during the foundation installation and placement of concrete.

Soil formations that will require special design considerations or excavation procedures may exist. Pole foundations may need to be reanalyzed according to the soil conditions that exist.

If any discrepancies or inconsistencies arise, notify the RDP in Responsible Charge of such discrepancies.

All piers and concrete must bear on and against firm undisturbed soil as determined by the Geotechnical Engineer.

Place plywood collar around perimeter at the top of foundation excavation to prevent soil from entering pier.

All excavations must be free of loose soil, and debris prior to foundation installation and placement of concrete. Casing or drilling slurry may be required if caving occurs. Review and approval of the Geotechnical Engineer and DSA is required.

All excavations must be free of water or concrete shall be placed by the Tremie Method in accordance with ACI standard 336. Concrete placed by the Tremie Method shall have a minimum ultimate strength of 1,000 PSI greater than required under "Concrete Cast-In-Place" and a maximum slump of 8".

## CONCRETE (CAST-IN-PLACE)

Concrete pier foundations with steel reinforcement shall attain a minimum ultimate compressive strength at 28 day test of 3,000 psi. Batch plant inspection not required.

All concrete shall attain a minimum strength of 2,500 psi prior to steel pole erection.

Use Type II/V Portland cement or as directed by the Geotechnical Engineer.

Portland Cement ASTM C-150.

Aggregate ASTM C-33. 1" maximum aggregate size. 3/8" max agg. size not permitted. Max water-soluble chloride ion content = 0.30 percent by weight of cement.

Mix in conformance with ASTM C-94, ACI 318 SECTIONS 19.3 and 26.4.

Place concrete immediately after completion of excavation and inspection by the Geotechnical Engineer and the DSA Inspector. Under no circumstances shall piers be allowed to remain open for more than 12 hours without the approval of the Geotechnical Engineer. Excavations shall be covered and protected until filled with concrete.

Concrete shall be placed in one continuous operation (no construction joint) with special equipment to assure a maximum freefall of 5 ft and to prevent concrete from striking the sides of the excavation. Freefall of concrete is unacceptable through water or drilling slurry.

Vibrate concrete full depth, except for concrete with slump greater than 6", then vibrate only upper 10'-0". Concrete placed under water shall have a slump of 6"-8".

## STEEL POLE

Steel pole sections conform to the California Code of Regulations T.24, Part 2, Chapter 22A.

All steel conforms to referenced ASTM specifications. (See Pole Data Table for each pole type).

All weldment conforms with AWS D1.1-15 specification for GMAW fillet utilizing E70S-X filler metal or SAW fillet utilizing F7XX-EXXX or F8XX-EXXX filler metal.
GMAW procedure conforms to AWS A5.18.
SAW procedure conforms to AWS A5.23.

Longitudinal seam welds for pole sections shall have 60% minimum penetration; Except longitudinal seam welds on the female section of telescopic field splices shall be full penetration groove welds for a length equal to the minimum splice length plus 6 inches. See drawing number MD1 for seam weld details.

Pole sections hot dipped galvanized to ASTM A123 latest standards.

All miscellaneous structural steel items conform to AISC 360-16.

Steel pole sections shall be assembled in the field by attaching two 1.5 ton "come alongs" to jacking ears, using full effort on each simultaneously, to ensure minimum overlaps as indicated on the "MS" sheet(s) and detail G/MD1.

## PRECAST BASE

The precast concrete base conforms to California Code of Regulations, T.24, part 2, Chapter 19A and to Building Code Requirements for Reinforced Concrete, ACI 318-19. Precast bases are an ICC approved product under ESR-3765.

See detail "A" on "MS" sheet(s) for material strengths and specifications.

## TESTING AND INSPECTION

Testing and inspection in accordance with Title 24, Part 1 & Part 2 & project DSA 103 form.

EXCAVATIONS & FOUNDATIONS:
Inspection of cast-in-place deep foundations – 1705A.8 & Table 1705A.8

CONCRETE MATERIALS: 1903A.1
Portland cement – 1910A.1
Concrete aggregates – 1903A.5
Reinforcing bars – 1910A.2 & DSA IR 17-10
Prestressing steel and anchorages – 1910A.3

CONCRETE QUALITY:
Proportions of concrete – Reference ACI 318 Section 26.4.3.1 Through 26.4.4.1.
Strength tests of concrete – 1905A.1.17 and ACI 318 Section 26.12 & 26.5.3.2.

CONCRETE INSPECTION: 1705A.3 & Table 1705A.3
Job site – Reference ACI 318 Section 26.5.1,26.5.2.1(a) & (b),26.6.1.2(d), 26.11.1.1(a).
Batch Plant Inspection Not Required – 1705A.3.3.2
Prestressed concrete – 1704A.2.5, 1705A.3.4

STEEL MATERIALS:
Structural steel – 2202A.1 & 2205A.1
Cold formed steel – 2210A.1
Identification – 2202A.1

STEEL QUALITY:
Tests of structural steel & cold formed steel – 2202A.1

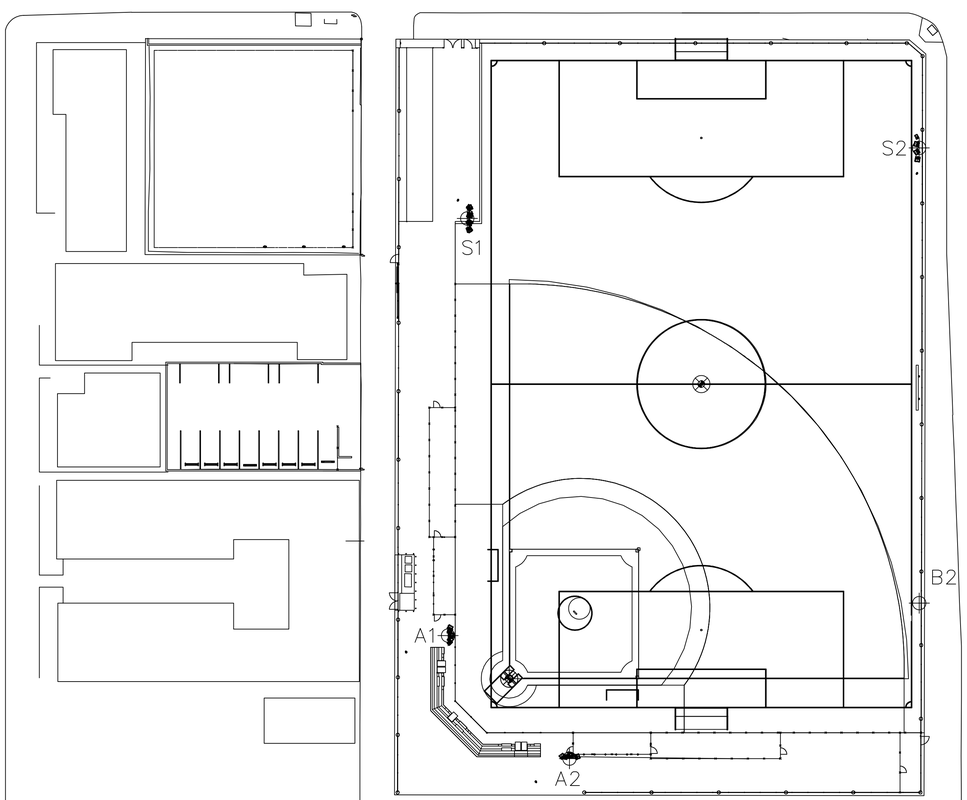
STRUCTURAL STEEL INSPECTIONS: Table 1705A.2.1
Shop fabrication inspection – 1704A2.5
Welding – 1705A.2.5, DSA IR 17-3 and AWS D1.1.

(NOTE: ALL WELDING SHALL BE CONTINUOUSLY INSPECTED BY AN AWS CWI CERTIFIED INSPECTOR APPROVED BY DSA)

These plans are for construction approval. An application number and approval of these drawings by the Division of The State Architect of California must be secured to build from these plans.

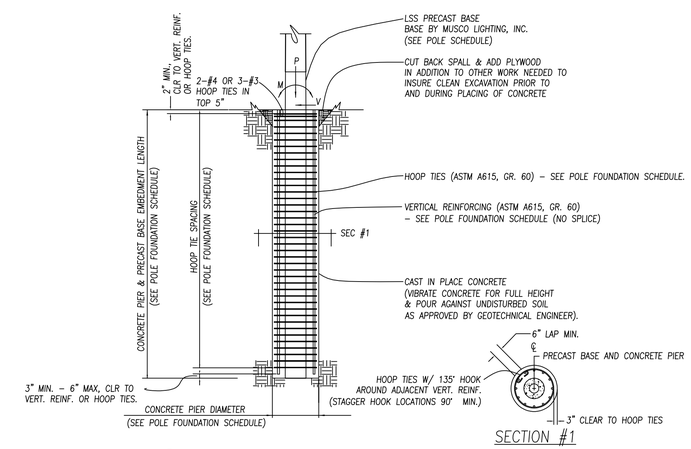
## INDEX OF SHEETS


| | |
|---|---|
| MT1 | NOTES, FOUNDATION DETAIL |
| MS1 | 60B POLE DETAILS |
| MS2 | 70C POLE DETAILS |
| MS3 | 80B POLE DETAILS |
| MD1 | ATTACHMENT DETAILS |
| MD2 | ATTACHMENT DETAILS |
| MD3 | ATTACHMENT DETAILS |


POLE ORIENTATION PLAN
N.T.S.

NOTE: THIS PLAN IS A PICTORAL REPRESENTATION OF THE SITE LAYOUT. REFERENCE APPROPRIATE ARCHITECTURAL SITE PLAN FOR ALL NECESSARY INFORMATION.




A REINFORCED FOUNDATION DETAIL
N.T.S.
DSA-A2-CASFND_A

## POLE FOUNDATION SCHEDULE

| POLE TYPE-# OF FIXTURES (MAX) (LSS=LIGHT STRUCTURE) | MARK (SEE POLE ORIENTATION PLAN) | WIND OR SEISMIC (SEISMIC FORCE INCLUDES OVERSTRENGTH FACTOR=1.5) | ASD LEVEL FORCES (MAX) | | | C.I.P. DEEP FOUNDATION | | | | PRECAST BASE |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | MOMENT (M) FT-LBS* | SHEAR (V) LBS | VERTICAL (P) LBS** | DIAMETER INCHES | EMBEDMENT FEET (SEE NOTE BELOW) | VERTICAL REINFORCING (ASTM A615, GR 60) | HOOP TIE SIZE & SPACING (ASTM A615, GR 60) | EMBEDMENT FEET |
| LSS60B-3 | A1, A2 | SEISMIC | 42,000 | 1,132 | 2,575 | 36" | 12'-0" | 8-#8 | #4 @ 6" O.C. TOP 9'-0" & #4 @ 12" O.C. BELOW | 12'-0" |
| | | WIND | 36,100 | 940 | 1,473 | | | | | |
| LSS70C-5 | B2, S2 | SEISMIC | 61,000 | 1,314 | 3,491 | 36" | 14'-0" | 8-#8 | #4 @ 6" O.C. TOP 9'-0" & #4 @ 12" O.C. BELOW | 14'-0" |
| | | WIND | 55,000 | 1,242 | 2,082 | | | | | |
| LSS80B-7 | S1 | SEISMIC | 138,600 | 2,764 | 5,009 | 42" | 16'-0" | 12-#7 | #4 @ 5¼" O.C. TOP 10'-6" & #4 @ 10½" O.C. BELOW | 16'-0" |
| | | WIND | 93,000 | 1,868 | 3,421 | | | | | |

*Moment (M) computed below grade at Shear (V) = 0.
**Vertical (P) load includes steel pole, light fixtures, and attachments. Vertical (P) load for wind is the dressed pole weight for erection purposes. Vertical (P) load for seismic also includes weight of precast base above groundline. Reference Detail "A" on MS Sheet(s) for precast base weight.
Note:
Final Embedment to be determined in the field by the Geotechnical Engineer of Record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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Long Beach Poly SB/SO
FIELD LIGHTING
Long Beach, CA

REGISTERED PROFESSIONAL ENGINEER
No. 4506
Exp. 6-30-27
STRUCTURAL
STATE OF CALIFORNIA


CONSULTANT
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RTM JOB NO.: 463.823



musco Lighting
CORPORATE OFFICE:
P.O. Box 808
211 2nd Avenue West
Oskaloosa, Iowa 52577
800/825-6020


DRAWING TITLE: NOTES, FOUNDATION DETAIL
SCALE: SEE PLAN
REVISIONS:
REFERENCE:

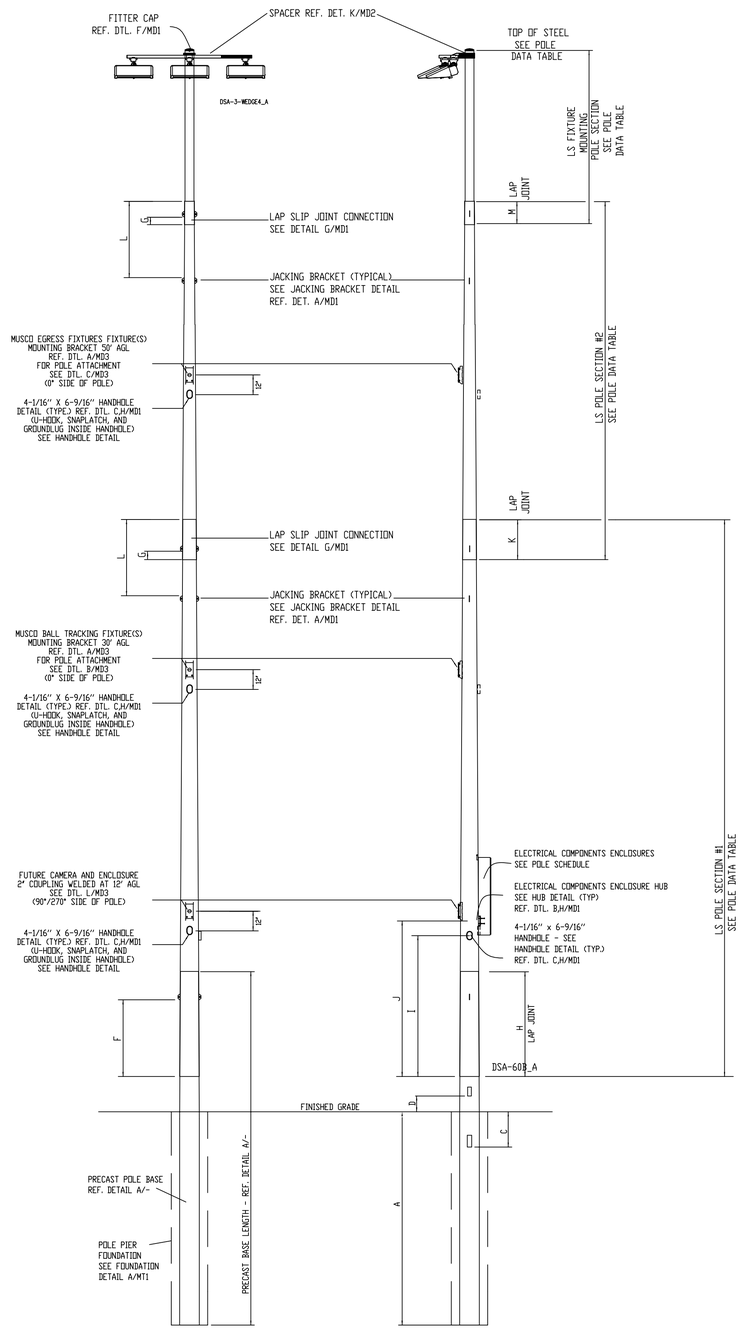
PROJECT NO. 245553

DATE: 11/06/2025

DRAWN BY: DCL

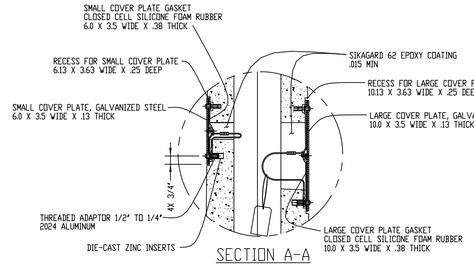
DRAWING NO. MT1
1 OF 7

DSA-TITLE1_E

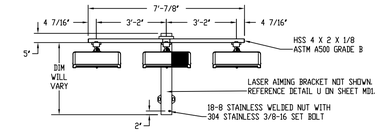



LSS60B POLE FRONT VIEW
N.T.S.

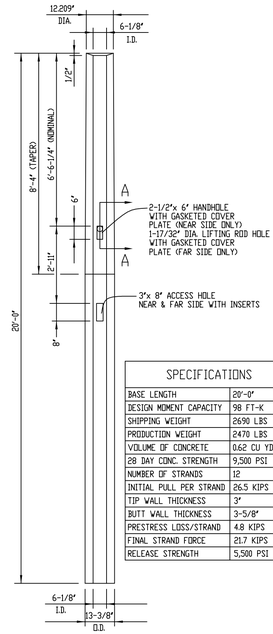
LSS60B POLE SIDE VIEW
N.T.S. DSA-60BBASE_A



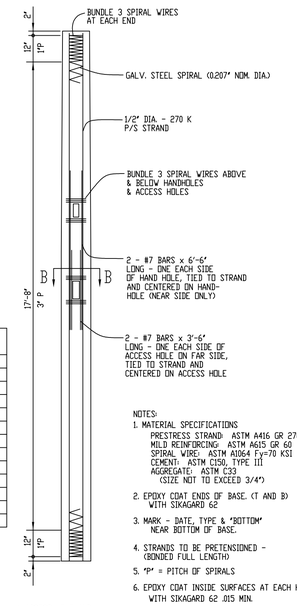

SECTION A-A
DSA-3Bconc_M



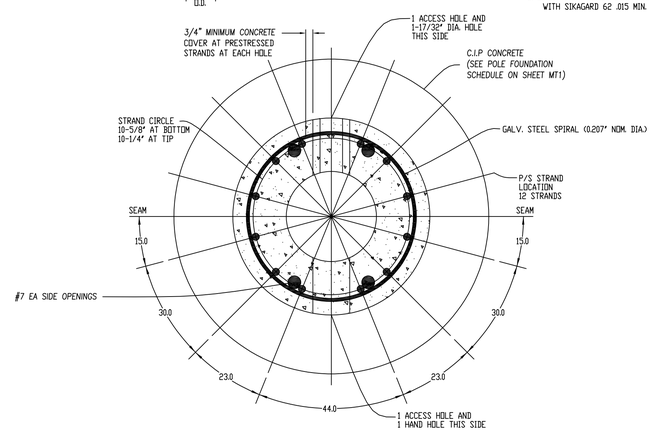

B 3 FIXTURE CONFIGURATION
N.T.S. DSA-3C-WEDGE4_A




| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 20'-0" |
| DESIGN MOMENT CAPACITY | 98 FT-K |
| SHIPPING WEIGHT | 2690 LBS |
| PRODUCTION WEIGHT | 2470 LBS |
| VOLUME OF CONCRETE | 0.62 CU YD |
| 28 DAY CONC. STRENGTH | 9,500 PSI |
| NUMBER OF STRANDS | 12 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 3" |
| BUTT WALL THICKNESS | 3-5/8" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 5,500 PSI |

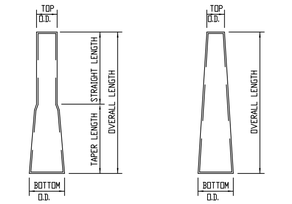



NOTES:
1. MATERIAL SPECIFICATIONS
   PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
   MILD REINFORCING: ASTM A615 GR 60
   SPIRAL WIRE: ASTM A1064 Fy=70 KSI
   CEMENT: ASTM C150, TYPE III
   AGGREGATE: ASTM C33
   (SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B) WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM" NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED - (BONDED FULL LENGTH)
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE WITH SIKAGARD 62 .015 MIN.



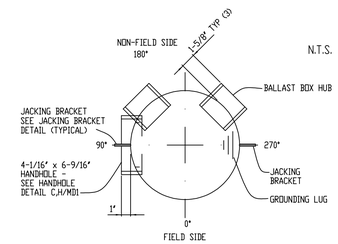

PLAN SECTION B-B

A TYPE 3B PRECAST BASE DETAIL
N.T.S. DSA-3Bconc_M




FIXTURE MOUNTING POLE SECTION

TOP/MIDDLE/BOTTOM POLE SECTION




N.T.S.

POLE ORIENTATION
N.T.S.

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 52.7 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED.

POLE SCHEDULE

| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
|---|---|---|---|---|---|---|
| SEE SITE PLAN (BY OTHERS) | A1, A2 | SEE POLE ORIENTATION PLAN | LSS60B | 3 - SEE DETAIL B/MS1 | 9.32 SQ. FT. | SEE DETAIL P,D/MD1 |
| | | | | | | |
| | | | | | | |

DSA-POLESCHE_C

| NOTATION | DIMENSION |
|---|---|
| | LSS60B |
| A | 12'-0" |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| F | 4'-4" NOM. |
| G | 1'-6" |
| H | 5'-11 3/8" NOM. 5'-3 3/4" MIN. |
| I | 7'-7 1/2" NOM. |
| J | 8'-9 1/2" NOM. |
| K | 3'-7 1/4" NOM. 1'-10 1/4" MIN. |
| L | 4'-7" NOM. |
| M | 1'-10" NOM. 1'-3" MIN. |

POLE DATA TABLE

| POLE TYPE | PIECE MARK | MAX NUMBER of X-Arms | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL NOMINAL | ASTM REFERENCE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LSS60B | LS-2009 | 1 | FIXTURE MOUNTING | 6.000" | 6.505" | 5'-3" | 3'-5" | 1'-10" | .120 | 59'-11 3/4" | A513 (Fy=38ksi) |
| | MP-1TTDSA-2 | | #2 | 5.980" | 9.630" | 26'-0 7/8" | ----- | 26'-0 7/8" | .120 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-3BT-D | | #1 | 8.886" | 13.400" | 32'-2 7/8" | ----- | 32'-2 7/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-3BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | | |

DSA-60_A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

# Long Beach Poly SB/SO FIELD LIGHTING Long Beach, CA

PROFESSIONAL ENGINEER ★ STATE OF CALIFORNIA ★ STRUCTURAL
No. 4506
Exp. 6-30-27

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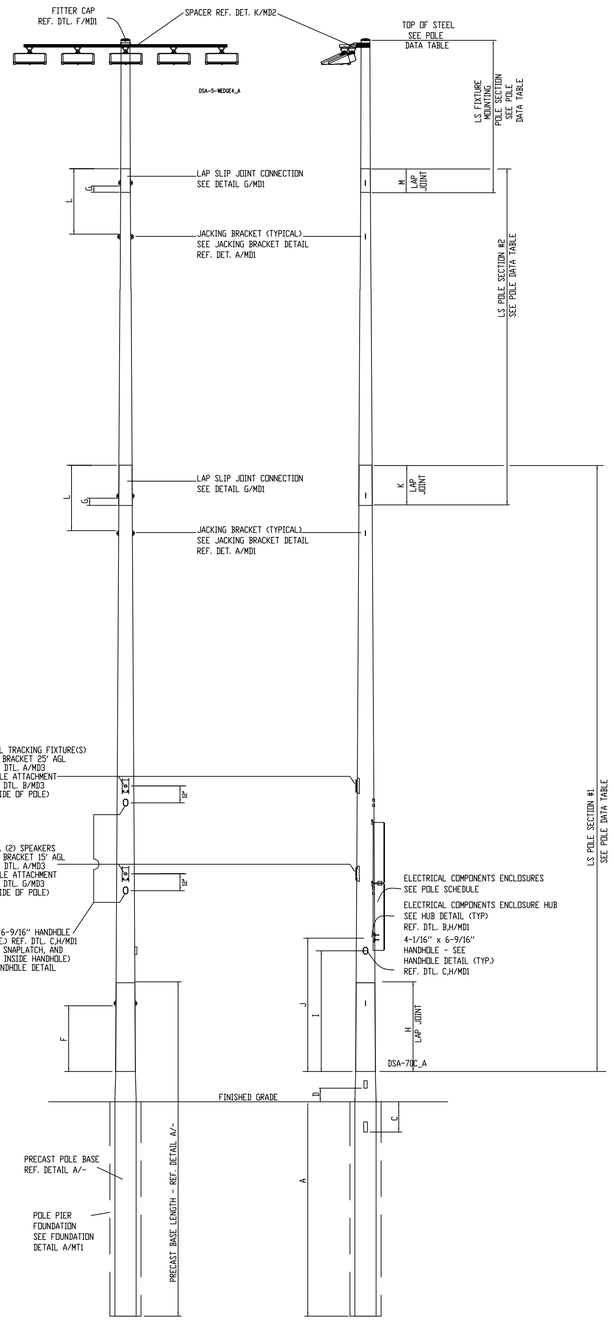
musco Lighting
CORPORATE OFFICE:
P.O. Box 808
211 2nd Avenue West
Oskaloosa, Iowa 52577
800/825-6020

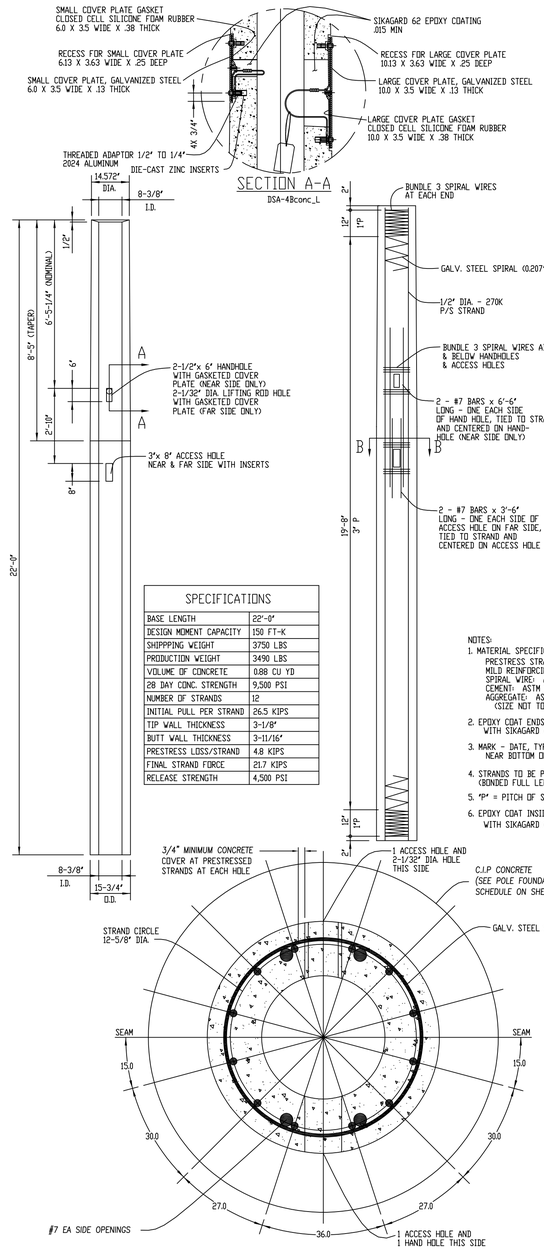
DRAWING TITLE: POLE DETAIL
SCALE: SEE PLAN
REVISIONS
REFERENCE:

PROJECT NO. 245553
DATE: 11/06/2025
DRAWN BY: DCL
DRAWING NO. MS1
2 OF 7




LSS70C POLE FRONT VIEW
N.T.S.

LSS70C POLE SIDE VIEW
N.T.S. DSA-70CBASE_A

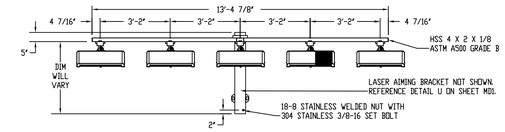



| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 22'-0" |
| DESIGN MOMENT CAPACITY | 150 FT-K |
| SHIPPPING WEIGHT | 3750 LBS |
| PRODUCTION WEIGHT | 3490 LBS |
| VOLUME OF CONCRETE | 0.88 CU YD |
| 28 DAY CONC. STRENGTH | 9,500 PSI |
| NUMBER OF STRANDS | 12 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 3-1/8" |
| BUTT WALL THICKNESS | 3-11/16" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 4,500 PSI |

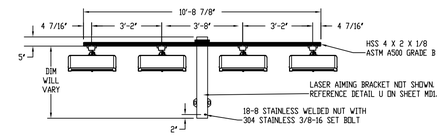
NOTES:
1. MATERIAL SPECIFICATIONS
   PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
   MILD REINFORCING: ASTM A615 GR 60
   SPIRAL WIRE: ASTM A1064 Fy=70 KSI
   CEMENT: ASTM C150, TYPE III
   AGGREGATE: ASTM C33
   (SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B)
   WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
   NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
   (BONDED FULL LENGTH)
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
   WITH SIKAGARD 62 .015 MIN.

PLAN SECTION B-B

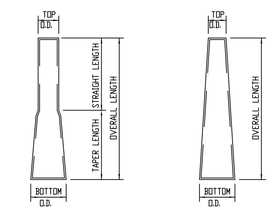
A TYPE 4B PRECAST BASE DETAIL
N.T.S. DSA-48conc_L




B 5 FIXTURE CONFIGURATION
N.T.S. DSA-5C-WEDGE4_A

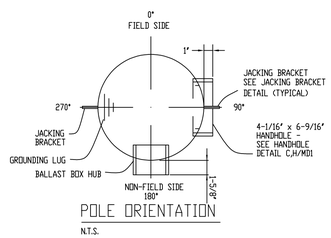



C 4 FIXTURE CONFIGURATION
N.T.S. DSA-4C-WEDGE4_A




FIXTURE MOUNTING POLE SECTION

TOP/MIDDLE/BOTTOM POLE SECTION




POLE ORIENTATION
N.T.S.

| NOTATION | DIMENSION |
|---|---|
| | LSS70C |
| A | 14'-0" |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| F | 4'-4" NOM. |
| G | 1'-6" |
| H | 5'-10 1/4" NOM. 5'-3 3/4" MIN. |
| I | 7'-7 1/2" NOM. |
| J | 8'-9 1/2" NOM. |
| K | 3'-5 5/8" NOM. 2'-1 1/4" MIN. |
| L | 4'-7" NOM. |
| M | 2'-0" NOM. 1'-5 1/2" MIN. |

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 62.2 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED

POLE SCHEDULE

| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
|---|---|---|---|---|---|---|
| SEE SITE PLAN (BY OTHERS) | B2 | SEE POLE ORIENTATION PLAN | LSS70C | 5 - SEE DETAIL B/MS2 | 15.4 SQ. FT. | SEE DETAIL SL,/MD1 |
| | S2 | SEE POLE ORIENTATION PLAN | LSS70C | 4 - SEE DETAIL C/MS2 | | SEE DETAIL P,/MD1 |

DSA-POLESCHE_C

POLE DATA TABLE

| POLE TYPE | PIECE MARK | MAX NUMBER of X-Arms | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL NOMINAL | ASTM REFERENCE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LSS70C | LS-2013 | 1 | FIXTURE MOUNTING | 7.000" | 7.548" | 5'-3" | 3'-3" | 2'-0" | .125 | 70'-4" | A513 (Fy=38ksi) |
| | MP-4TTDSA-11 | | #2 | 6.980" | 10.940" | 28'-3 3/8" | ----- | 28'-3 3/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-5BT-D | | #1 | 10.096" | 15.750" | 40'-4 5/8" | ----- | 40'-4 5/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-4BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | | |

DSA-70_A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Long Beach Poly SB/SO
FIELD LIGHTING
Long Beach, CA

REGISTERED PROFESSIONAL ENGINEER
No. 4506
Exp. 6-30-27
STATE OF CALIFORNIA

CONSULTANT
rtm engineering consultants
1 Ada, Suite 100, Irvine, CA 92618
(949) 830-7070
WWW.RTMEC.COM
RTM JOB NO.: 463.823

musco Lighting
CORPORATE OFFICE:
P.O. Box 808
211 2nd Avenue West
Oskaloosa, Iowa 52577
800/825-6020

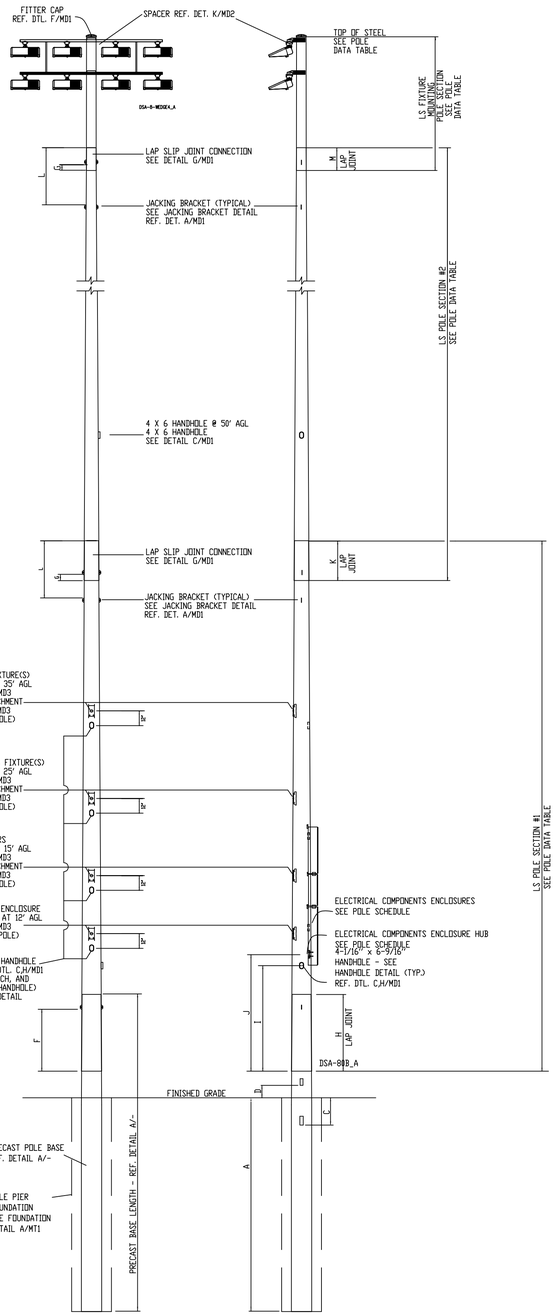
DRAWING TITLE: POLE DETAIL
SCALE: SEE PLAN
REVISIONS:
REFERENCE:

PROJECT NO. 245553

DATE: 11/06/2025

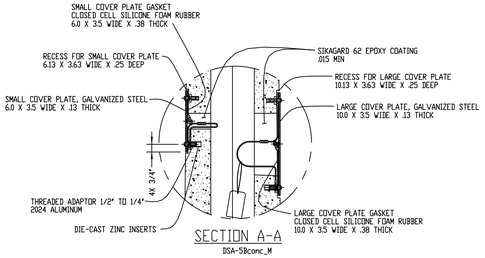
DRAWN BY: DCL

DRAWING NO. MS2
3 OF 7

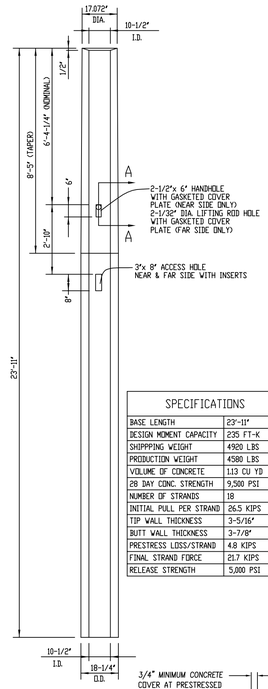



LSS80B POLE FRONT VIEW
N.T.S.

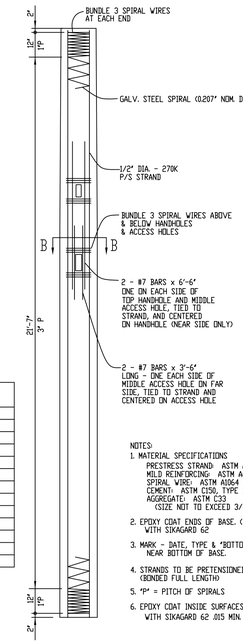
LSS80B POLE SIDE VIEW
N.T.S.
DSA-88BBASE_A



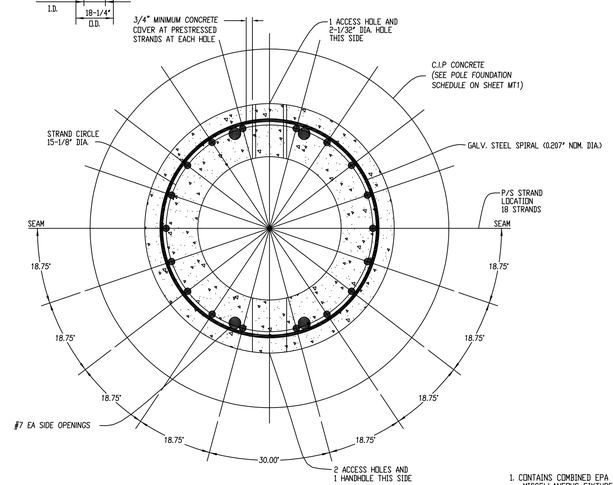

SECTION A-A
DSA-5Bconc_M




| SPECIFICATIONS | |
|---|---|
| BASE LENGTH | 23'-11" |
| DESIGN MOMENT CAPACITY | 235 FT-K |
| SHIPPPING WEIGHT | 4920 LBS |
| PRODUCTION WEIGHT | 4580 LBS |
| VOLUME OF CONCRETE | 1.13 CU YD |
| 28 DAY CONC. STRENGTH | 9,500 PSI |
| NUMBER OF STRANDS | 18 |
| INITIAL PULL PER STRAND | 26.5 KIPS |
| TIP WALL THICKNESS | 3-5/16" |
| BUTT WALL THICKNESS | 3-7/8" |
| PRESTRESS LOSS/STRAND | 4.8 KIPS |
| FINAL STRAND FORCE | 21.7 KIPS |
| RELEASE STRENGTH | 5,000 PSI |

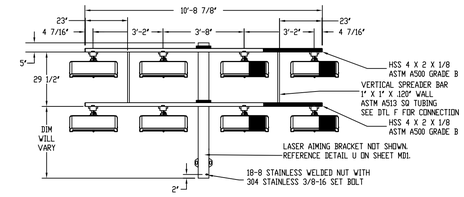



NOTES:
1. MATERIAL SPECIFICATIONS
   PRESTRESS STRAND: ASTM A416 GR 270 (LOW RELAXATION)
   MILD REINFORCING: ASTM A615 GR 60
   SPIRAL WIRE: ASTM A1064 Fy=70 KSI
   CEMENT: ASTM C150, TYPE III
   AGGREGATE: ASTM C33
   (SIZE NOT TO EXCEED 3/4")
2. EPOXY COAT ENDS OF BASE. (T AND B)
   WITH SIKAGARD 62
3. MARK - DATE, TYPE & "BOTTOM"
   NEAR BOTTOM OF BASE.
4. STRANDS TO BE PRETENSIONED -
   (BONDED FULL LENGTH)
5. "P" = PITCH OF SPIRALS
6. EPOXY COAT INSIDE SURFACES AT EACH HOLE
   WITH SIKAGARD 62 .015 MIN.

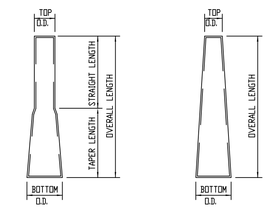



PLAN SECTION B-B

(A) TYPE 5B PRECAST BASE DETAIL
N.T.S.
DSA-5Bconc_M

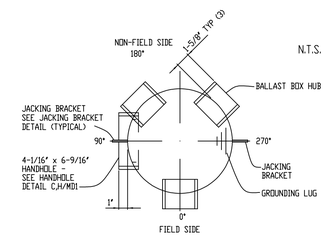



(B) 8 FIXTURE CONFIGURATION
N.T.S. DSA-BC-WEDGE4_A



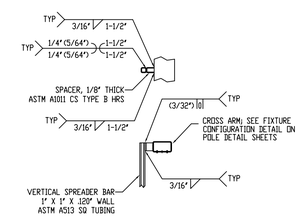

FIXTURE MOUNTING POLE SECTION

TOP/MIDDLE/BOTTOM POLE SECTION




N.T.S.

POLE ORIENTATION
N.T.S.




(F) WELD ON SPREADER BAR DETAIL
SCALE: N.T.SDSA-SpreaderBarWeldOn-LED_A

1. CONTAINS COMBINED EPA OF LIGHT FIXTURES, CROSS ARM AND MISCELLANEOUS FIXTURE MOUNTING APPARATUS.

FIXTURE WEIGHT 57.8 LBS. THIS INCLUDES THE WEIGHT OF FIXTURE, CROSS ARM & MISC. MOUNTING APPARATUS. ELECTRICAL BALLAST BOX WEIGHT 20 LBS PER FIXTURE SERVICED.

POLE SCHEDULE

| SITE LOCATION | POLE MARK | REFERENCE LOCATION | POLE TYPE | FIXTURE CONFIGURATION | TOTAL EPA[1] | BALLAST BOX REQUIREMENTS |
|---|---|---|---|---|---|---|
| SEE SITE PLAN (BY OTHERS) | S1 | SEE POLE ORIENTATION PLAN | LSS80B | 8 - SEE DETAIL B/MS3 | 23.9 SQ. FT. | SEE DETAIL K,O,D/MD1 |
| | | | | | | |
| | | | | | | |

DSA-POLESCHE_C

| NOTATION | DIMENSION |
|---|---|
| | LSS80B |
| A | 16'-0" |
| C | 2'-0" NOM. |
| D | 1'-0" NOM. |
| F | 4'-8" NOM. |
| G | 1'-6" |
| H | 6'-1 1/2" NOM. 5'-3 3/4" MIN. |
| I | 7'-11 1/2" NOM. |
| J | 9'-1 1/2" NOM. |
| K | 3'-11 1/4" NOM. 2'-7 5/8" MIN. |
| L | 4'-11 1/2" NOM. |
| M | 2'-2" NOM. 1'-8 1/2" MIN. |

POLE DATA TABLE

| POLE TYPE | PIECE MARK | MAX NUMBER of X-Arms | POLE SECTION | TOP O.D. (INCHES) | BTM. O.D. (INCHES) | OVERALL LENGTH | STRAIGHT LENGTH | TAPER LENGTH | THICKNESS (INCHES) | TOP OF STEEL NOMINAL | ASTM REFERENCE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LSS80B | LS-2017 | 2 | FIXTURE MOUNTING | 8.000" | 8.781" | 5'-3" | 3'-1" | 2'-2" | .125 | 80'-1 7/8" | A513 (Fy=38ksi) |
| | MP-4BTTDSA-9 | | #2 | 8.190" | 13.582" | 38'-6 1/8" | ----- | 38'-6 1/8" | .179 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-6BTDSA-D | | #1 | 12.672" | 18.407" | 40'-11 5/8" | ----- | 40'-11 5/8" | .239 | ----- | A595A (Fy=55 ksi) or A572, Gr 55 or 65 |
| | MP-5BDSA | | PRECAST BASE | FOR PRECAST MEMBER PROPERTIES SEE PRECAST BASE DETAIL A/- | | | | | | | |

DSA-80_A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

# Long Beach Poly SB/SO FIELD LIGHTING Long Beach, CA

REGISTERED PROFESSIONAL ENGINEER
No. 4506
Exp. 6-30-27
STATE OF CALIFORNIA
STRUCTURAL

CONSULTANT
rtm engineering consultants
1 Ada, Suite 100, Irvine, CA 92618
(949) 460-3000
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RTM JOB NO.: 463.823

musco Lighting
CORPORATE OFFICE:
P.O. Box 808
211 2nd Avenue West
Oskaloosa, Iowa 52577
800/825-6020

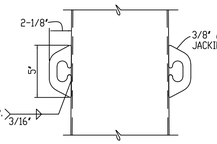
SCALE: SEE PLAN
DRAWING TITLE: POLE DETAIL
REVISIONS:
REFERENCE:

PROJECT NO. 245553

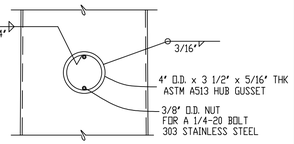
DATE: 11/06/2025

DRAWN BY: DCL

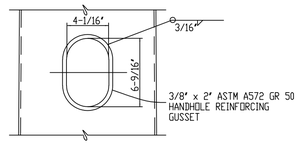
DRAWING NO. MS3
4 OF 7



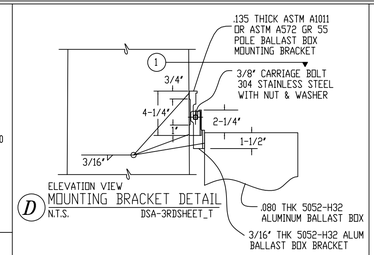

A JACKING BRACKET DETAIL
N.T.S. DSA-3RDSHEET_T



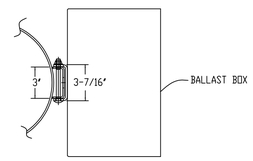

B HUB DETAIL
N.T.S. DSA-3RDSHEET_T

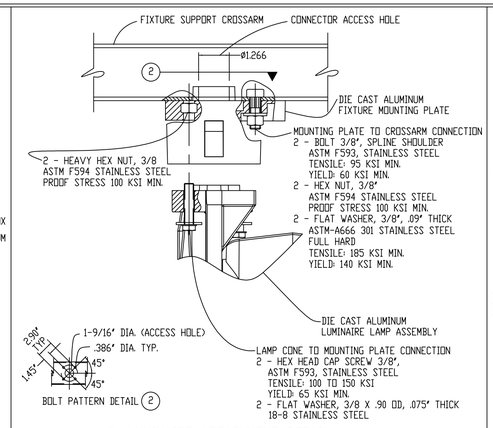



C HANDHOLE SLEEVE DETAIL
N.T.S. DSA-3RDSHEET_T

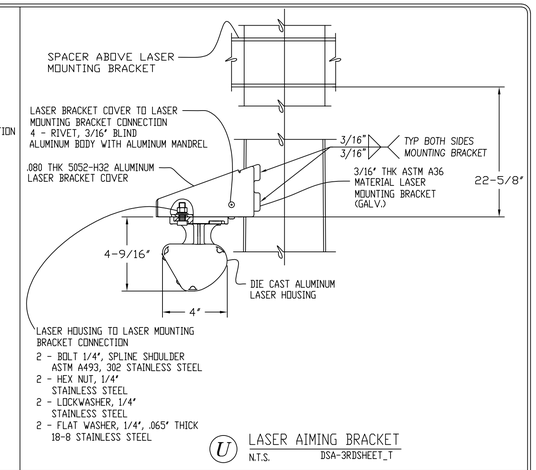



D MOUNTING BRACKET DETAIL
N.T.S. DSA-3RDSHEET_T

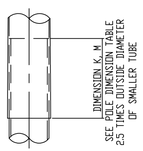


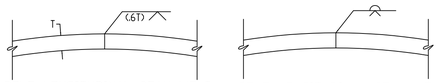

E LUMINAIRE ATTACHMENT DETAIL
N.T.S. DSA-3RDSHEET_T




U LASER AIMING BRACKET
N.T.S. DSA-3RDSHEET_T



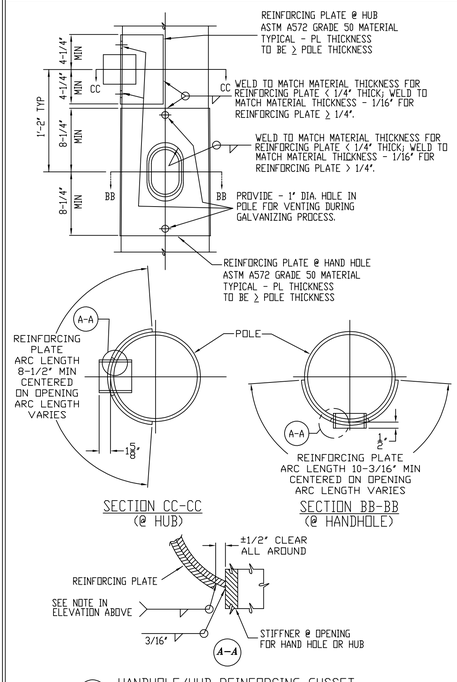

G SLIP JOINT CONNECTION DETAIL
N.T.S. DSA-LAP



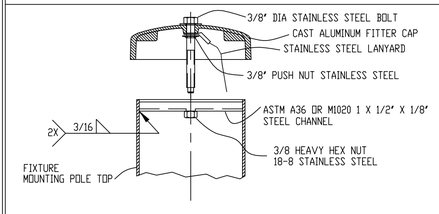

POLE LONGITUDINAL SEAM WELD
DETAIL TYPICAL CONDITION *
N.T.S. DSA-3RDSHEET_T

POLE LONGITUDINAL SEAM WELD DETAIL
AT LAP SPLICES (FEMALE END) *
N.T.S. DSA-3RDSHEET_T

* NOTE- 100% PENETRATION SEAM WELDS MAY BE PROVIDED FULL LENGTH OF POLE SHAFTS PROVIDED WPS'S ARE QUALIFIED BY TEST.




H HANDHOLE/HUB REINFORCING GUSSET
N.T.S.




F FITTER CAP DETAIL
N.T.S. DSA-3RDSHEET_T

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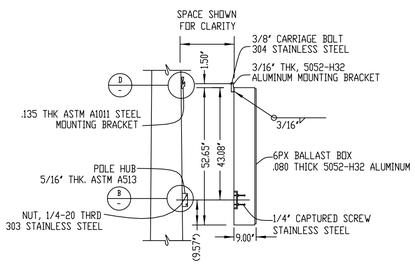
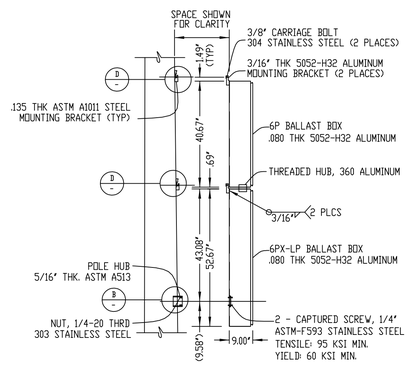
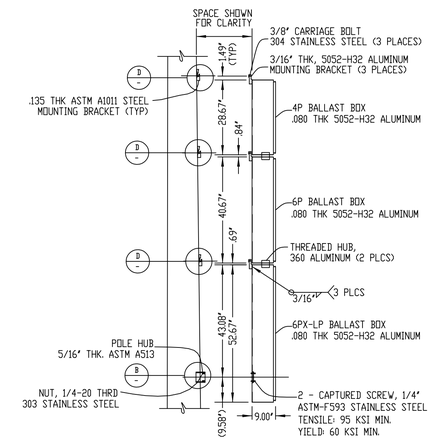



6PX
P BALLAST BOX CONNECTION DETAIL
N.T.S. STRU-6PX_D




6P/6PX-LP
SL BALLAST BOX CONNECTION DETAIL
N.T.S. STRU-6P6PXLP_E




4P/6P/6PX-LP
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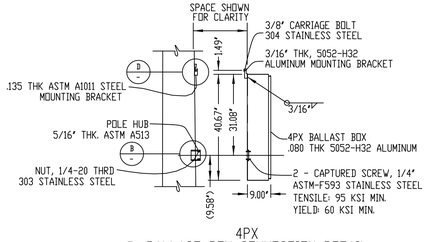


4PX
O BALLAST BOX CONNECTION DETAIL
N.T.S. STRU-4PX_E

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DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

Long Beach Poly SB/SO
FIELD LIGHTING
Long Beach, CA

REGISTERED PROFESSIONAL ENGINEER
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DRAWING TITLE: ATTACHMENT DETAILS
SCALE: SEE PLAN
REVISIONS:
REFERENCE:

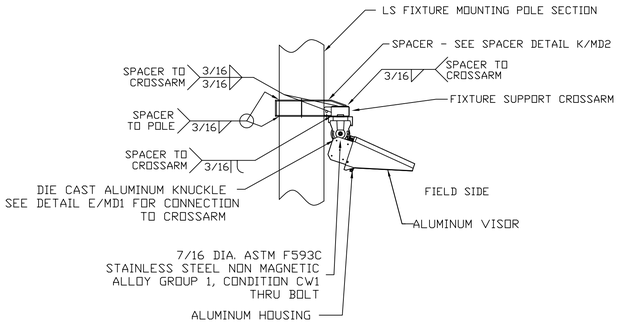
PROJECT NO. 245553

DATE: 11/06/2025

DRAWN BY: DCL

DRAWING NO. MD1
5 OF 7

STRU-MD1




J LIGHT FIXTURE (TYPICAL)
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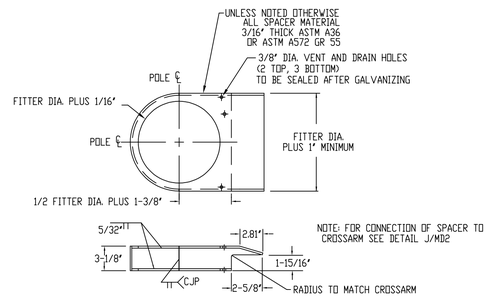


K SPACER DETAIL
N.T.S. DSA-SPACERWELDON_K

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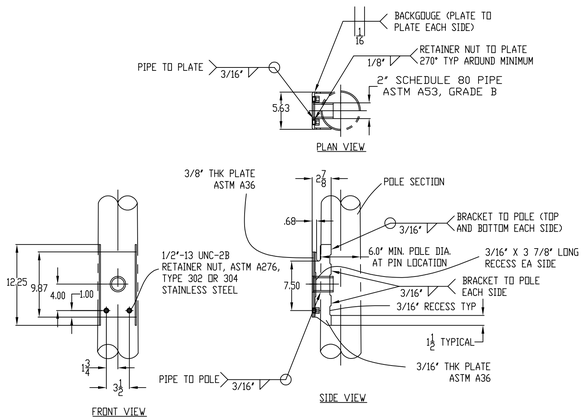
DRAWING NO. 6 OF 7
MD2
STRU-MD2




(A) BRACKET DETAIL
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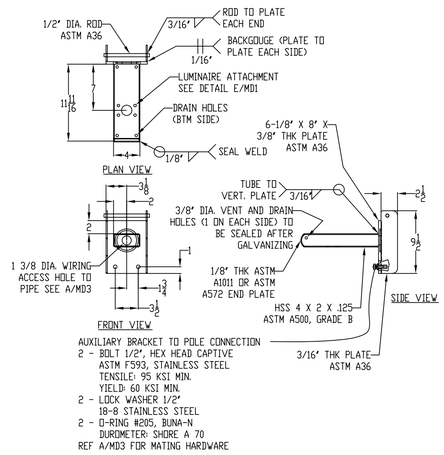
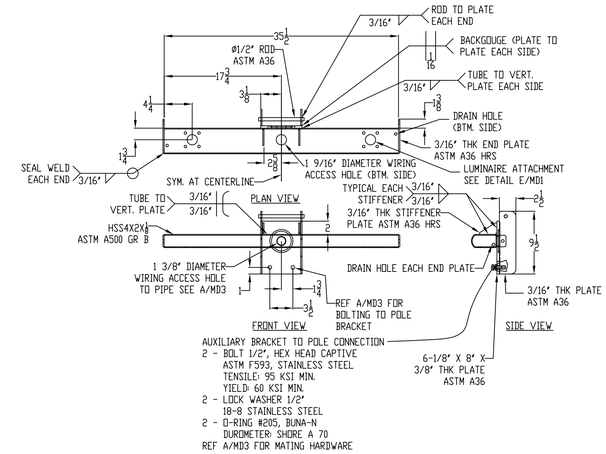
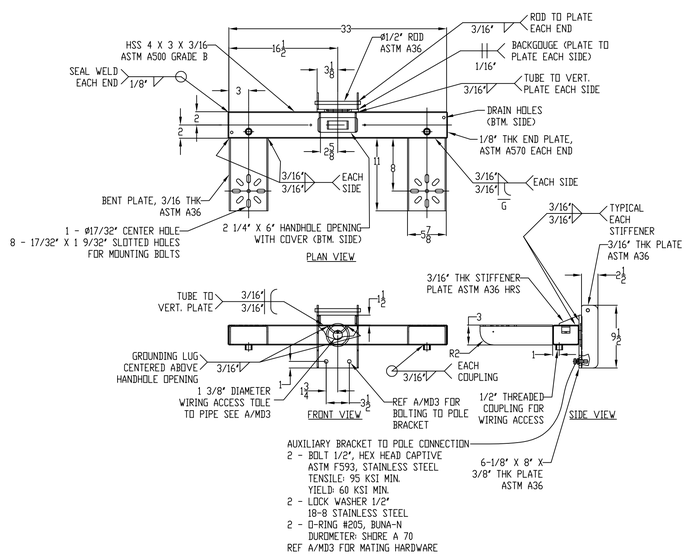


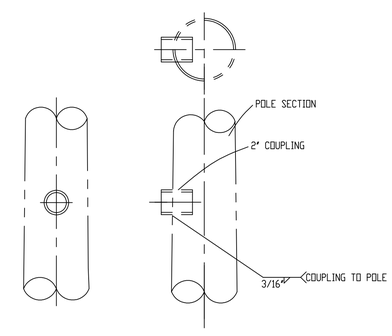

(B) 1P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-1P FIXTURE MOUNT_F




(C) 2P AUXILIARY MOUNTING BRACKET
N.T.S. DSA-2P FIXTURE MOUNT_F




(Q) 2P TRUNNION MOUNT
N.T.S. DSA-2P TRUNNION_E




(L) BRACKET DETAIL
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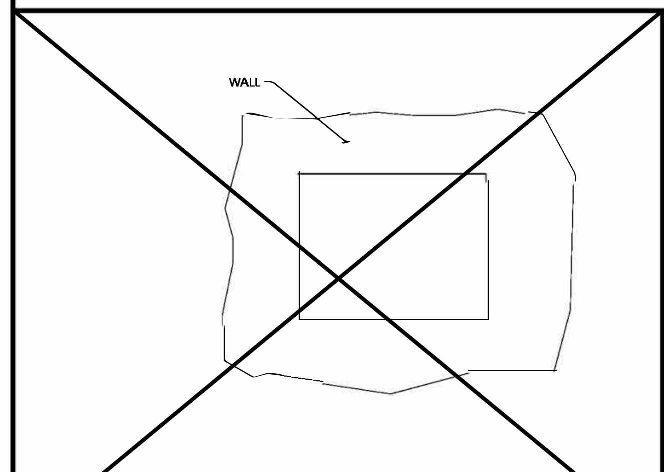
DATE: 11/06/2025

DRAWN BY: DCL

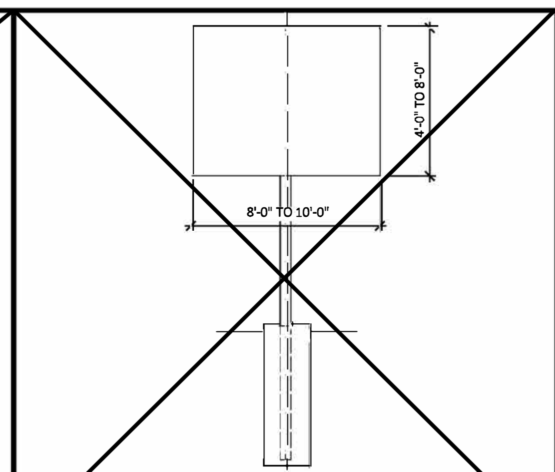
DRAWING NO. MD3
7 OF 7

STRU-MD1

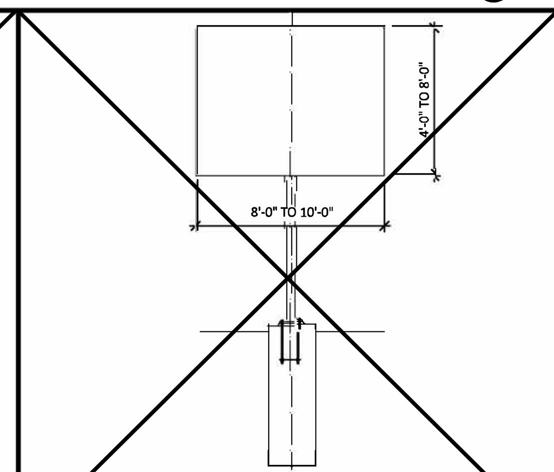
# NEVCO DSA P.C. 04-124534



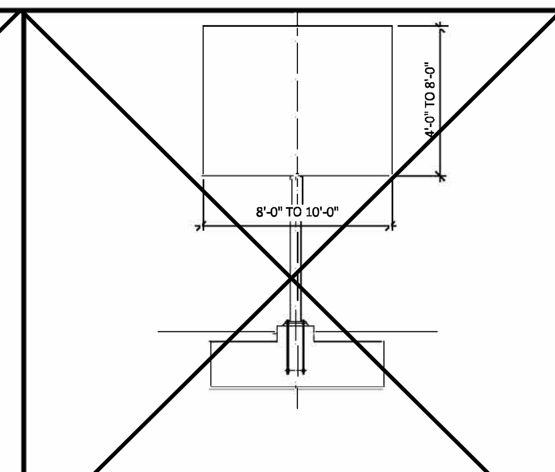

INDOOR WALL MOUNTED ASSEMBLY
SHEETS: SB0.1, SB0.2, SB6.1



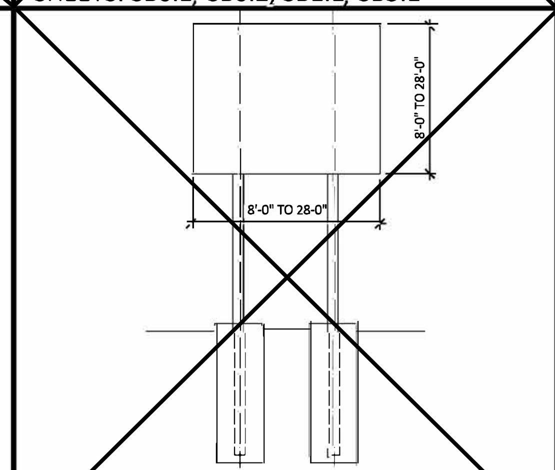

MARQUEE: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB1.1, SB5.1



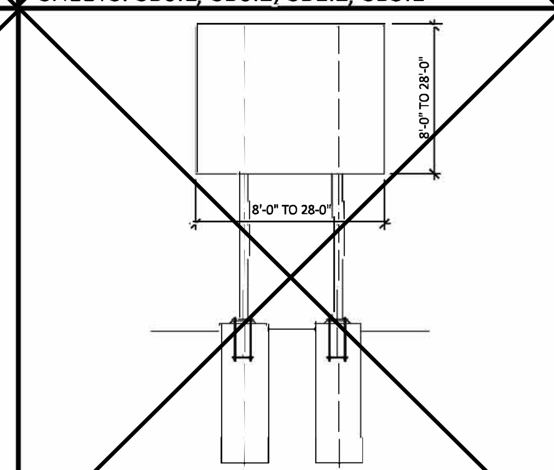

MARQUEE: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB1.2, SB5.1



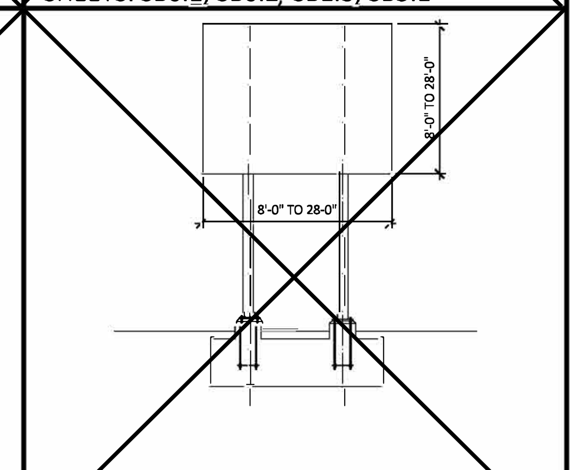

MARQUEE: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB1.3, SB5.1



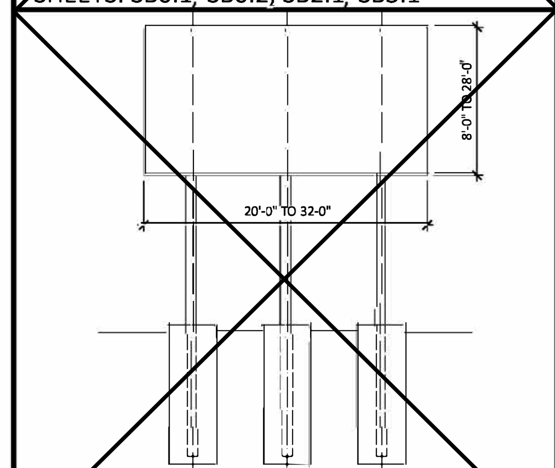

2 COLUMN: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB2.1, SB5.1



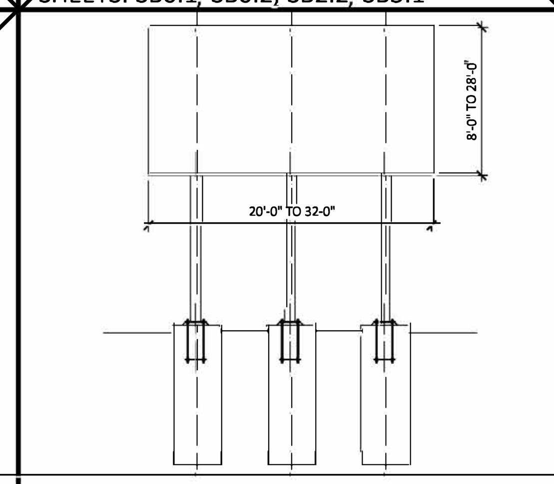

2 COLUMN: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB2.2, SB5.1



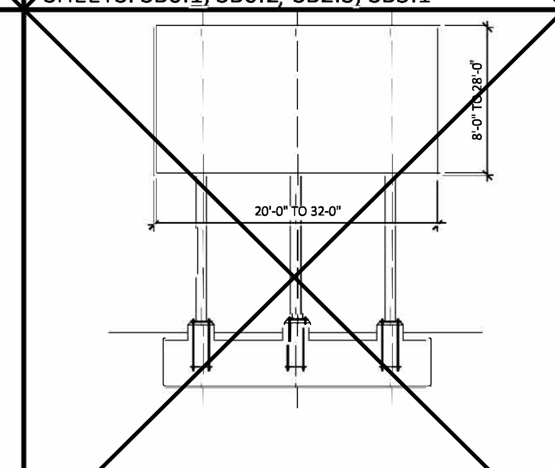

2 COLUMN: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB2.3, SB5.1



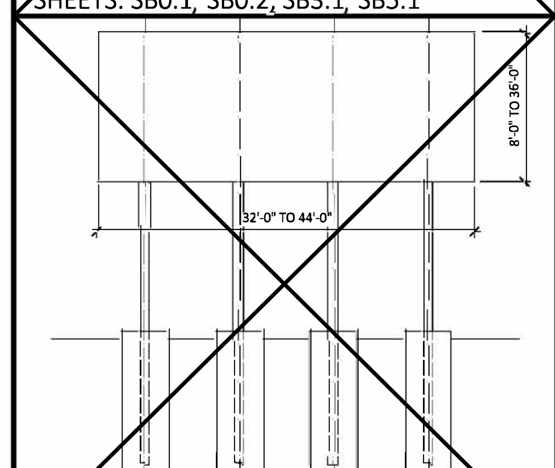

3 COLUMN: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB3.1, SB5.1



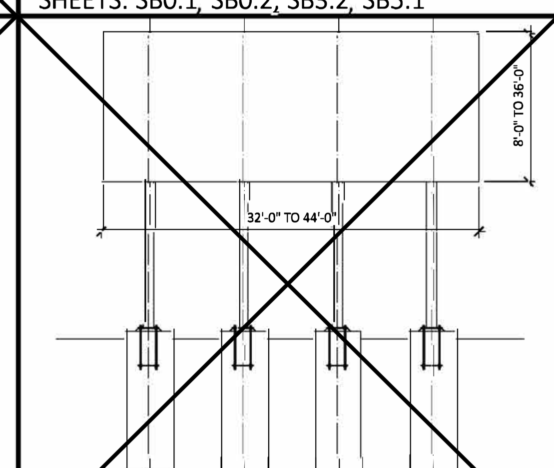

3 COLUMN: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB3.2, SB5.1



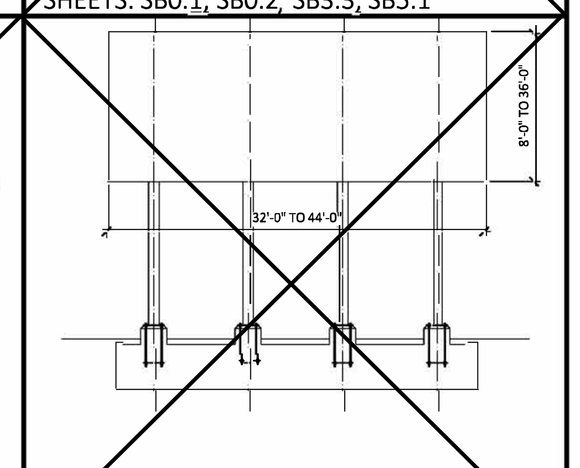

3 COLUMN: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB3.3, SB5.1




4 COLUMN: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB4.1, SB5.1




4 COLUMN: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB4.2, SB5.1




4 COLUMN: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB4.3, SB5.1

## TABLE C - SITE SPECIFIC SEISMIC AND WIND VALUES

| EARTHQUAKE DESIGN DATA | MAXIMUM | | |
|---|---|---|---|
| | $S_S$= 3.73 g | ≥ | $S_S$= 1.86 g |
| Mapped Spectral Response Accelerations (Maximum) | $S_1$= 1.0 g | ≥ | $S_1$= 0.73 g |
| Site Class | D | | D |
| | $S_{DS}$= 2.49 g | ≥ | $S_{DS}$= 1.3 g |
| Spectral Response Coefficients (Maximum) | $S_{D1}$= 1.0 g | ≥ | $S_{D1}$= 1.53 g |
| **Wind Design Data** | Value | | Value |
| Design Wind Speed (3-sec gust), $V_{ULT}$ | 100 mph | ≥ | 101 mph |
| Exposure Category | C | | C |

Earthquake and Wind design data can be found at: https://ascehazardtool.org/

## TABLE D - SITE FLOOD ZONE
THIS SECTION NOT REQUIRED IF SITE IS IN FLOOD ZONE X

Geotechnical Engineer:

Letter Dated:

## TABLE B - STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

| Gravity Design Data | Value |
|---|---|
| Dead Loads: | |
| Sign Dead Load | PER SCHEDULE |
| Snow Loads: | |
| Ground Snow Load, $P_g$ (Maximum) | 30 psf |
| Deflection Criteria: | |
| Sign, Wind Load | H/240 |
| **Wind Design Data** | **Value** |
| Design Wind Speed (3-sec gust), $V_{ULT}$ | 100 mph |
| Design Wind Speed (3-sec gust), $V_{ASD}$ | 77 mph |
| Risk Category | II |
| Exposure Category | C |
| Applicable Internal Pressure Coefficient | ± 0.18 |
| Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7) | $q_z$=21.8x$K_z$ psf $K_z$VARIES |
| **Earthquake Design Data** | **Value** |
| Risk Category | II |
| Importance Factor, $I_e$ | 1.0 |
| Mapped Spectral Response Accelerations (Maximum) | $S_S$= 3.73 g $S_1$= 1.0 g |
| Site Class | A through E |
| Spectral Response Coefficients (Maximum) | $S_{DS}$= 2.49 g $S_{D1}$= 1.0 g |
| Seismic Design Category | E |
| Analysis Procedure Used: Equivalent Lateral Force Procedure (ASCE 7, 12.8) | |
| Basic Seismic-Force Resisting System: Non-Building Structure, ASCE 7-16 Chapter 15 | |
| Response Modification Factor, Signs and Billboards Table 15.4-2 | R= 3.0 |
| Seismic Response Coefficient | $C_s$= 0.83 |
| Design Base Shear | V= $C_S$ $W_D$ |
| **Flood Design** | |
| When the scoreboard is located in a flood zone other than Zone X, a letter stamped and signed from a Geotechnical Engineer is needed to validate allowable soil values specified in the PC are still applicable. | |
| **Geotechnical Design Data** | **Value** |
| Geotechnical Design Based on: 2022 California Building Code, Chapter 18A, Table 1806.A.2 (Class 5 Material) | |
| Allowable Soil Bearing Pressure (DL + LL) | 1,500 psf |
| Design Passive Pressure, $P_p$ (Tabular value has been increased per CBC Section 1806A.3.4 for pier design) | 100 pcf |
| Design Skin Friction, $f_s$ | 100 psf |

## SCOREBOARD ASSEMBLY WORKSHEET (TABLE A, C & D) INSTRUCTIONS

STEP 1: DETERMINE DESIRED SCOREBOARD ASSEMBLY. FILL OUT SCOREBOARD ASSEMBLY TABLE (TABLE A BELOW). PROVIDE NEVCO PART NUMBERS, PART HEIGHT, PART WIDTH, AND PART WEIGHTS.

STEP 2: DETERMINE TOTAL ASSEMBLY HEIGHT, WIDTH, AND WEIGHT, TABLE A

STEP 3: BASED ON TOTAL ASSEMBLY WIDTH, DETERMINE THE NUMBER OF REQUIRED COLUMNS.
SEE SHEETS SB1.X FOR 1 COLUMN ASSEMBLY OPTIONS
SB2.X FOR 2 COLUMN ASSEMBLY OPTIONS
SB3.X FOR 3 COLUMN ASSEMBLY OPTIONS
SB4.X FOR 4 COLUMN ASSEMBLY OPTIONS
SB6.1 FOR WALL MOUNTED ASSEMBLY OPTIONS (SKIP STEPS 4, 5, & 7)

STEP 4: PICK FOUNDATION TYPE (CAISSON WITH EMBEDDED COLUMN, CAISSON WITH BOLTED COLUMN, OR MAT FOOTING) . MARK APPLICABLE SHEET ON SHEET INDEX, SB0.1

STEP 5: MARK APPLICABLE CHECK BOX FOR SCOREBAORD SIZE ON DETAIL 'A' OF SELECTED COLUMN/FOUNDATION OPTION (SHEETS SB1.X, SB2.X, SB3.X OR SB4.X)

STEP 6: FILL IN SITE SPECIFIC SEISMIC AND WIND VALUES TABLE C ON SB0.1.

STEP 7: FILL IN SITE SPECIFIC FLOOD ZONE AS REQUIRED, TABLE D ON SB0.1

STEP 8: VERIFY ALL APPLICABLE SHEETS ARE MARKED ON SHEET INDEX, SB0.1. INCLUDE ONLY MARKED SHEETS AS PART OF DSA SUBMITTAL

## SITE SPECIFIC SUBMITTAL REQUIREMENTS

SEE DSA POLICY PL 07-02 FOR ADDITIONAL INSTRUCTIONS REGARDING USE AND APPLICATION OF THIS PRE-CHECK DOCUMENT. ALL SITE SPECIFIC SUBMITTALS SHALL INCLUDE:

1. COMPLETED DSA 1 APPLICATION, DSA3, DSA 103, AND FILING FEE AND COPY OF THE PRE-CHECK DOCUMENT WITH APPLICABLE DESIGN OPTION MARKED ON THE MARQUEE, TWO COLUMN, THREE COLUMN, FOUR COLUMN, OR WALL ASSEMBLY SCHEDULES.
2. SITE PLAN OF FACILITY IDENTIFYING ALL STRUCTURES BY DSA APPLICATION NUMBER. LOCATION OF SCOREBOARD SHALL BE IDENTIFIED. ELECTRICAL PANEL SERVING THE SCOREBOARD SHALL BE LOCATED AND IDENTIFIED.
3. WHERE WIRELESS CONTROLLERS ARE NOT SPECIFIED, AN ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE SEATING FOR THE SCOREBOARD OPERATOR SHALL BE IDENTIFIED AND PROVIDED.
4. PROVIDE AN ELEVATION OF PROPOSED SCOREBOARD IDENTIFYING ALL INSTALLED DISPLAY COMPONENTS, SIGNAGE, TRUSSES, AND ADDITIONAL COMPONENTS IN THE PRE-CHECK DOCUMENT. ALL ELEMENT WEIGHTS SHALL BE SPECIFIED.
5. THE APPLICABLE SHEETS SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THIS SHEET.
6. THE APPLICABLE CONFIGURATION SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THE 'A' DETAILS ON THE APPLICABLE SHEET.
7. PROVIDE CUT SHEETS OF THE BOARDS, BOXES, AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE. CUT SHEETS SHALL INCLUDE WEIGHTS AND DIMENSIONS
8. SITE SPECIFIC SEISMIC DESIGN CRITERIA SHALL BE PROVIDED IN THE DRAWINGS.
9. SITE SPECIFIC BASIC DESIGN WINDSPEED AND SITE EXPOSURE SHALL BE PROVIDED ON THE DRAWINGS, SEE TABLE C.
10. STEEL COATING SPECIFICATIONS FOR WEATHER PROTECTION IF DIFFERENT THAN NOTED ON SB0.2
11. A GEOHAZARD REPORT IS NOT REQUIRED PER IR A-4. IF A SCOREBOARD IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED BY A GEOTECHNICAL ENGINEER IS REQUIRED VALIDATING THE ALLOWABLE SOIL VALUES, PROVIDE INFORMATION IN TABLE D.
12. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES THAT DO NOT MEET THE MINIMUM SETBACK REQUIREMENTS.
13. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F.
14. FOR WALL MOUNTED ASSEMBLIES (SB6.1), STRUCTURAL ANALYSIS AND JUSTIFICATION THAT THE WALL FRAMING IS CAPABLE OF SUPPORTING THE ASSEMBLY FOR VERTICAL AND LATERAL LOADS.

## TABLE A - SCOREBOARD ASSEMBLY WORKSHEET (1)

| Nevco Part No.or Description | Part Height [ft.] | Part Width [ft] | Part Weight [lb] |
|---|---|---|---|
| 3685 | 8 | 24 | 740 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Total | | | |

TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2)

| | |
|---|---|
| Total Assembly Height = | 8 ft. ● in. |
| Total Assembly Width = | 24 ft. ● in. |
| Total Assembly Weight = | 57● lbs. |
| Distance from Finish Grade to Bottom of Sign = | 18 ft. ● in. |
| Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign = | 18 ft. ● in. |

SCOREBOARD ASSEMBLY FOOTNOTES

1. Verify part number, dimensions, and weight with Nevco
2. See Step 3 of Scoreboard Assembly Worksheet Instructions

## SHEET INDEX

| CHECK ALL THAT APPLY | SHEET | SHEET INDEX |
|---|---|---|
| ■ (REQ'D) | SB0.1 | COVER SHEET |
| ■ (REQ'D) | SB0.2 | STRUCTURAL NOTES |
| ● | SB0.3 | EXAMPLE DSA 103 - TESTING AND INSPECTIONS |
| ☐ | SB1.1 | MARQUEE CAISSON - EMBEDDED |
| ☐ | SB1.2 | MARQUEE CAISSON - BOLTED |
| ☐ | SB1.3 | MARQUEE MAT FOOTING |
| ☐ | SB2.1 | TWO COLUMN CAISSON - EMBEDDED |
| ☐ | SB2.2 | TWO COLUMN CAISSON - BOLTED |
| ☐ | SB2.3 | TWO COLUMN MAT FOOTING |
| ☐ | SB3.1 | THREE COLUMN CAISSON - EMBEDDED |
| ● | SB3.2 | THREE COLUMN CAISSON - BOLTED |
| ☐ | SB3.3 | THREE COLUMN MAT FOOTING |
| ☐ | SB4.1 | FOUR COLUMN CAISSON - EMBEDDED |
| ☐ | SB4.2 | FOUR COLUMN CAISSON - BOLTED |
| ☐ | SB4.3 | FOUR COLUMN MAT FOOTING |
| ● | SB5.1 | ATTACHMENT DETAILS |
| ● | SB5.2 | OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS |
| ☐ | SB5.3 | DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS |
| ☐ | SB5.4 | DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS & 10mm VIDEO BOARD |
| ☐ | SB6.1 | INDOOR WALL MOUNTED SCOREBOARD |

## CODE INFORMATION

2022 CALIFORNIA BUILDING STANDARDS CODE (TITLE 24, CCR):

2025 ADMINISTRATIVE CODE, PART 1, TITLE 24 CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE VOLUMES 1 &2, PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CALIFORNIA BUILDING CODE, CHAPTER 35
2022 CALIFORNIA FIRE CODE, CHAPTER 80

## GENERAL NOTES AND MATERIAL SPECIFICATIONS

GENERAL REQUIREMENTS

1. THE ARCHITECT OR PROFESSIONAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS PER TITLE 24, PART 1, SECTIONS 4-316(E) AND 4-317 (H).
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA, OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY TITLE 24, PART 1, SECTION 4-338.
3. THE DISTRICT SHALL EMPLOY A CLASS 2 PROJECT INSPECTOR WHEN OVERALL STRUCTURE HEIGHT IS 35 FEET OR GREATER, OTHERWISE A CLASS 3 PROJECT INSPECTOR MAY BE USED. THE PROJECT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK , AND SHALL SUBMIT VERIFIED REPORTS ON A DSA-6 FORM. THE DUTIES OF THE PROJECT INSPECTION ARE DEFINED IN TITLE 24, PART 1, SECTION 4-342.
4. ALL SCOREBOARD CONTROLS SHALL BE FULLY ACCESSIBLE VIA WIRELESS CONTROL OR COMPLETE DESIGN SHALL BE DEMONSTRATED IN THE SITE-SPECIFIC APPLICATION.
5. ALL ASSEMBLIES SHALL HAVE ELECTRICAL DISCONNECT PER CEC 600.6 AND BE ELECTRICALLY GROUNDED PER CEC 600.7, SEE DETAIL B/SB5.1
6. IN FLOOD ZONES, LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO ASCE 24, SECTION 7.2 PER DSA PR-14-01 SECTION 1.2.1.
7. SEE PAGE, SB0.2, FOR ALL MATERIAL SPECIFICATIONS AND NOTES.
8. PROJECT DESIGN PROFESSIONAL OF RECORD IS RESPONSIBLE FOR PREPARATION OF THE PROJECT SPECIFIC DSA 103 AND IS RESPONSIBLE FOR ALL SHOP DRAWING AND SUBMITTAL REVIEWS. SEE SB0.3 FOR EXAMPLE DSA 103

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APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

BUEHLER

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PAROLINI
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 04.11.2025
PC SEOR SEAL

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APP: 04-124534 PC
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DATE: 05/14/2025
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PRE-CHECK (PC) DOCUMENT
CODE: 2022

A separate project application for construction is required.

COVER SHEET

SHEET INFORMATION

| | |
|---|---|
| DATE | 04.11.2025 |
| DRAWN | JMK |
| CHECKED | MEP |
| SSG JOB # | S23109 |
| SHEET | SB0.1 |

**Size:** 24′ x 8′ x 8″ (7.31 x 2.44 x .20 meters)
**Approximate hanging weight:** 740 lbs. (336 kg)
**Digit Size:** 24″ **Digit Color:** High Intensity Red, Amber, or Translucent White

**Note: Translucent White LEDs are an optional LED upgrade**

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# STRUCTURAL NOTES

GENERAL NOTES

1. The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
2. Specific notes and details shall take precedence over general notes and typical details.
3. All materials and workmanship shall conform to the minimum standards of the 2022 edition Title 24 of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC on the job site.
4. The "Contract or Construction Documents" shall consist of these notes, details, schedules, plans, and drawings.
5. All specifications, including but not limited to materials and products, shall be those put forth in the "Contract or Construction Documents". No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Structural Engineer of Record.
6. The contractor shall examine the "Contract or Construction Documents" and shall notify the Architect or Structural Engineer of Record of any discrepancies he may find before proceeding with the work.
7. All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Architect or Structural Engineer of Record of any discrepancies between actual site conditions and information shown on or in the "Contract or Construction Documents" before proceeding with work.
8. The Contractor shall immediately notify the Architect or Structural Engineer of Record of any condition which in his opinion might endanger the stability of the structure or cause distress of the structure.
9. All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
10. These "Contract or Construction Documents" represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
11. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
    A. Labeling (as required or specified) shall be provided in accordance with CBC Section 1703A.5.
    B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703A.6.
12. The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
13. The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary preloading of the structure to determine final position of the completed work.
14. Observation visits to the project site by field representatives of Architect and/or Structural Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Architect or Structural Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others. these support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
15. These notes, details, drawings and specifications (Contract or Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction hereby contemplated are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
16. Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
17. Written dimensions shall have precedence over scaled dimensions.
18. Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
19. In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, then their construction shall be of the same character as for similar conditions that are shown or called for.
20. ASTM designation and all standards refer to the latest amendments.
21. These structural "Contract or Construction Documents" shall not be modified without prior written approval of the Structural Engineer of Record.
22. Only structural working drawings approved by the Division of the State Architectare permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.
23. A Division of the State Architect certified project inspector employed by the District (Owner) and approved by the Division of the State Architect shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24 California Code of Regulations.

FOUNDATION NOTES

1. Basis: See Structural Design Values Chart, Sheet SB0.1 Table B
2. Unexpected soil conditions: Allowable values and foundation design are based upon the minimum values provided in Table 1806A.2 of the 2022 California Building Code. See SB0.1 for values
3. Excavate to required depths and dimensions (as indicated in drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbing of soils around higher elevation.
4. Footings shall be poured in neat excavations, without side forms whenever possible.
5. Carry all foundations to required depths into compacted fill or natural soil (as per Structural Plans and Details).
6. All foundation excavations shall be inspected and approved by the Inspector of Record or Geotechnical Engineer prior to forming and placement of reinforcing or concrete.
7. Foundations shall not be poured until all required reinforcing steel, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the Authority having Jurisdiction.
8. The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
9. De-water footings, as required, to maintain dry working conditions.

REINFORCING STEEL

1. All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 ($f_y$ = 60 ksi) unless noted otherwise.
2. Reinforcing steel shall not be welded, unless specifically noted otherwise.
3. To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices must be provided. Placing of reinforcement shall conform to ACI 318-19 Section 26.6.2.
4. Shop drawings for fabrication of any reinforcing steel shall be approved by Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record, for their review, prior to fabrication.
5. Refer to typical details for minimum splice length and minimum radius of bend of reinforcing steel.
6. All reinforcing steel splices shall be staggered 24", unless specifically noted or detailed otherwise.
7. All reinforcing bar bends shall be made cold.
8. Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute of Standard Practice.
9. Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.

CONCRETE

1. All concrete shall have a minimum ultimate compressive strength ($f'_c$) as outlined below at 28 days. All concrete shall be regular weight (unless specifically noted otherwise).
    A. Concrete for footings: 4,500 psi w/c = 0.45 max.
2. Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
3. All concrete work shall comply with CBC Chapter 19A and ACI 318-19 and latest edition of ACI Manual of Concrete Practice.
4. Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
5. Cement shall be portland cement Type V and shall conform to ASTM C150.
6. Aggregates shall conform to ASTM C33, provide aggregates from a single source.
7. Water shall conform to ASTM C94 and be potable.
8. Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
    A. Concrete cast against and permanently exposed to earth or weather: 3"
10. All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.
11. Vibrate all concrete as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
12. Formwork design and removal shall conform to ACI 318-19 Section 26.11. Remove forms in accordance with the following minimum schedule:
    A. Side forms of footings: Minimum 48 hours
    B. Column and pier forms: 72 hours & 70% of design strength
15. Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
16. Concrete shall be maintained in a moist condition for a minimum of 5 days after placement.
17. The Contractor may use concrete admixtures as a construction means and methods to execute "Contract or Construction Documents". Use of admixture is solely the responsibility of the Contractor.
18. Mix designs shall be prepared by an approved testing laboratory, signed by a licensed engineer and shall be submitted to the Project Specific Design Professional of Record for approval. Buehler Engineering Inc is not responsible for review or approval of site specific concrete mix design.
19. Only one grade of concrete shall be allowed on project site at any one time
20. Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1905A.1.16) made by an approved testing laboratory.
21. Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-19 Section 26.5.4, and ACI 306R-16.
22. Concrete placed during hot weather shall conform to ACI 318-19 Section 26.5.5, and ACI 305R-14.
23. Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
    A. 1" concrete cover shall be maintained around all reinforcement.
24. No stakes shall be permitted within the footing section.
25. Concrete shall reach minimum 75% design strength or cure for 3 days minimum prior to installation of steel columns and scoreboard components.

DRILLED CAISSON/PIER AND GRADE BEAM NOTES

1. Excavations for drilled caissons/pier shall be performed in compliance with local grading codes and ordinances as well as CBC Chapters 18A and 33A.
2. Provide Special Inspection in accordance with CBC Section 1705A.8 and Table 1705A.8.
3. Excavations for all drilled caissons/piers shall be approved by the Project Geotechnical Engineer or Project Special Inspector prior to placing of concrete.
4. Reinforcement for drilled caissons/pier shall be approved by the Structural Engineer of Record prior to placing in caisson/pier excavation.
5. De-water caisson/pier footings and building excavation as required to maintain dry working conditions.
6. Caisson/piers are to be poured within 24 hours after completion of drilling operation. Shoring requirements shall be determined by contractor. Contractor shall be provide fall protection and safety barriers at and near the drilled hole as required by OSHA and the Authority Having Jurisdiction.
7. The Contractor shall be responsible for all shoring, bracing, etc. necessary to support cut and/or fill banks, and existing structures during excavation, and the forming and placement of concrete.
8. Bottom of caissons/piers shall be thoroughly cleaned prior to placement of concrete.

STRUCTURAL STEEL AND WELDING

1. All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
    A. Fabrication of all structural steel shall be done in the shop of an approved fabricator. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
2. All structural steel shall conform to the following specifications:
    A. Angles, channels, plates, bars, rounds, and other miscellaneous shapes: Shall conform to ASTM A36 and shall have a minimum yield stress ($F_y$) of 36 ksi.
    B. Wide-flange shapes: Shall conform to ASTM A992 and shall have a minimum yield stress ($F_y$) of 50 ksi.
    C. Structural tubes: Shall be ASTM A500, Grade C, and shall have a min. yield stress ($F_y$) of 50ksi.
3. All structural steel fasteners shall conform to the following specifications:
    A. Bolts shall conform to ASTM A307
    B. Anchor Bolts shall conform to ASTM F1554, Grade as noted in drawings
    C. Carbon steel nuts shall conform to ASTM A563
    D. Stainless steel nuts shall conform to ASTM F594
    E. Washers shall conform to ASTM F436
4. Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17A.
5. All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
6. All welding shall be done by qualified and certified welders.
7. Shop drawings for the fabrication of any structural steel shall be approved by the Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record for their review, prior to fabrication.
8. No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
9. All welding shall conform to 'AWS D1.1' specifications for welding. (E-70XX Electrodes).
10. Where fillet weld size is not indicated, use 'AWS' minimum size based on the thickness of the thinner part being welded, as specified in AISC Specifications for Structural Steel Buildings (AISC 360-10), Section J2.2.
11. All butt welds to be complete joint penetration, unless specifically noted otherwise.
12. Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel, see steel decking) shall conform to CBC Sections 1705A.2.1 and 2204A.1.
13. Provide 3" minimum concrete cover around all structural steel below grade.
14. Structural steel embedded into concrete shall be uncoated.
15. Structural steel shall be hot-dip galvanized (minimum ASTM A123 or A153 Class D) or painted with zinc-rich primer, undercoat, and finish coat; or equivalent paint system.
16. All exposed steel fasteners, including cast-in-place anchor bolts/rods, shall be stainless steel (Type 304 minimum), hot-dip galvanized (ASTM A153, Class D minimum or ASTM F2329), or protected with corrosion-preventive coating that demonstrated no more than 2% of red rust in minimum 1,000 hours of exposure in salt spray test per ASTM B117. Zinc plated fasteners do not comply with this requirement.

# ABBREVIATIONS

| | | | |
|---|---|---|---|
| A.B. | Anchor Bolt | | |
| ABV. | Above | HORIZ. | Horizontal |
| ACI | American Concrete Institute | HSS | Hollow Steel Section |
| ADJ. | Adjacent | HT. | Height |
| AHJ | Division of the State Architect | | |
| AISC | American Institute of Steel Construction | ICC | International Building Code |
| | | ICC | International Code Council |
| AOR | Architect of Record | ID | Inside Diameter |
| APPROX. | Approximate(ly) | IN. | Inch, Inches |
| ASCE | American Society of Civil Engineers | INT. | Interior |
| ARCH. | Architect, Architecture | ksi | Kips per Square Inch |
| ASTM | American Society of Testing and Materials | LL | Live Load |
| ATR | All Thread Rod | | |
| AWS | American Welding Society | MAX. | Maximum |
| | | MB | Machine Bolt |
| B.O. | Bottom of _____ | MFR. | Manufactured, Manufacturer |
| BOT. | Bottom | MIN. | Minimum |
| b/t | Between | MPH | Miles per Hour |
| CAC | California Administrative Code | N/R | Not Required |
| CBC | California Building Code | N.T.S. | Not to Scale |
| CIP | Cast-in-place | | |
| CJP | Complete Joint Penetration | o.c. | On Center |
| ℄ | Centerline | o/ | Over |
| CLR. | Clear | OD | Outside Diameter |
| COL. | Column | | |
| CONC. | Concrete | PEN. | Penetration |
| CONN. | Connection | PL. | Plate |
| CONST. | Construction | PJP | Partial Joint Penetration |
| CONT. | Continue, Continuous | psi | Pounds per Square Inch |
| | | PSF | Pounds per Square Foot |
| Ø | Diameter | | |
| DBL. | Double | REBAR | Reinforcing Bar |
| DET. | Detail | REINF. | Reinforcement |
| DL | Dead Load | REQ'D | Required |
| DSA | Division of State Architect | | |
| DWGS. | Drawings | S.F. | Square Feet |
| | | SHT. | Sheet |
| EA. | Each | SIM. | Similar |
| E.F. | Each Face | SMS | Sheet Metal Screw |
| ELEC. | Electric, Electrical | SQ. | Square |
| ELEV. | Elevation | STAGG'D | Staggered |
| EMBED. | Embedded, Embedment | STD. | Standard |
| EOR | Engineer of Record | STL. | Steel |
| EQ. | Equal | SEOR | Structural Engineer of Record |
| EQUIP. | Equipment | | |
| E.S. | Each Side | T&B | Top and bottom |
| E.W. | Each Way | THR'D | Threaded |
| EXT. | Exterior | T.O. | Top of _____ |
| | | TYP. | Typical |
| FAB. | Fabricated | | |
| FDN. | Foundation | U.N.O. | Unless Noted Otherwise |
| F.G. | Finish Grade | | |
| F.O. | Face of _____ | VERT. | Vertical |
| FRMG. | Framing | VIF | Verify in Field |
| FT. | Foot,Feet | | |
| FTG. | Footing | w/ | With |
| | | w/c | Water/Cement Ratio |
| GA. | Gauge | WSS | Welded Steel Stud |
| GALV. | Galvanized | WT. | Weight |
| GEOR | Geotechnical Engineer of Record | | |

POST INSTALLED ANCHOR & TESTING

1. All post-installed anchors are to be tension tested with the exception that torque testing is allowed if the anchors are specifically designed as torque controlled
2. Test quantity of post-installed anchors as noted below:

| Application | Quantity |
|---|---|
| Non-structural (Equipment Anchorage, etc.) | 50% |
| Structural | 100% |

3. Apply proof test loads to anchors without removing the nut if possible. if not, remove nut and install a threaded coupler to the same tightness of the original nut using a torque wrench and apply load.
4. All tests shall be performed in the presence of the inspector.
5. Reaction loads from test fixtures may be applied close to the anchor being tested, provided the anchor is not restrained from withdrawing or restricted from a concrete shear cone type failure mechanism.
6. Test equipment is to be calibrated by an approved testing laboratory in accordance with standard recognized procedures.
7. The following criteria apply for the acceptance of installed anchors:
    A. Hydraulic ram method: anchors tested with a hydraulic jack or spring loaded devices shall maintain the test load for a minimum of 15 seconds and shall exhibit no discernable movement during the tension test, e.g. as evidenced by loosening of the washer under the nut.

    B. Torque wrench method: anchors tested with a calibrated torque wrench must attain the manufacturer recommended torque within ½ turn of the nut.
    Exceptions:
    - Wedge or sleeve type: one-quarter turn of the nut from 3/8" sleeve anchor only.
    - Threaded type: one-quarter turn of the screw after initial seating of the screw head.
8. If any anchor fails testing, test all anchors of the same type not previously tested until twenty consecutive anchors pass, then resume the initial test frequency. If the anchors are used for the support and bracing of non-structural components (pipe, duct or conduit), the twenty shall be only those anchors installed by the same trade.
9. Test loads per ICC ESR, IAPMO, OR UES report
10. When installing drilled-in anchors and/or powder driven pins in existing non-prestressed reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. When installing them into existing prestressed concrete (pre- or post-tensioned) locate the prestressed tendons by using a non-destructive method prior to installation. Exercise extreme care and caution to avoid cutting or damaging the tendons during installation. Maintain a minimum clearance of one inch between the reinforcement and the drilled-in anchor and/or pin.

| ANCHOR TORQUE TEST VALUES | | | | |
|---|---|---|---|---|
| Anchor Diameter | CONCRETE | | MASONRY | |
| | HILTI KB TZ 2 | SIMPSON STRONG BOLT 2 | HILTI KB TZ 2 | SIMPSON STRONG BOLT 2 |
| | ESR-4266 | ESR-3037 | ESR-4561 | ER-240 |
| ⅜" | 30 ft-lb | 30 ft-lb | 15 ft-lb | 20 ft-lb |
| ½" | 50 ft-lb | 60 ft-lb | 25 ft-lb | 35 ft-lb |
| ⅝" | 40 ft-lb | 90 ft-lb | 30 ft-lb | 55 ft-lb |
| ¾" | 110 ft-lb | 150 ft-lb | 50 ft-lb | 100 ft-lb |

If the manufacturer's recommended installation torque is less than the test torque noted in the table, the manufacturer's recommended installation torque should be used in lieu of the tabulated values.

See manufacturer's ESR report for Maximum Impact Wrench Torque Rating.

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APP: 03-125644 INC:
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DATE: 04/15/2026

BUEHLER

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PARSONY
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 04.11.2025
PC BEOR SITAL

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APP: 04-124534: PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 05/1 4/2025
DSA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022

A separate project application for construction is required.

STRUCTURAL NOTES & SPECIAL INSPECTIONS

SHEET INFORMATION

| | |
|---|---|
| DATE | 04.11.2025 |
| DRAWN | JMK |
| CHECKED | MEP |
| SSG JOB # | S23109 |
| SHEET | SB0.2 |

# EXAMPLE DSA 103 - TESTING AND INSPECTIONS

## DSA 103-22

### LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

☐ Project has a geotechnical report or construction documents require special inspection by a geotechnical engineer.
☑ Project does NOT have and does NOT require a geotechnical report.

| | TYPE | BY |
|---|---|---|
| **S1 \| SOILS - GENERAL** | | |
| ☑ S1a: Site Preparation | See Notes | PI |
| **S2 \| COMPACTION AND FILL** | | |
| ☐ S2a: Fill Materials | Test | LOR* |
| ☑ S2b: Fill Placement | Continuous | LOR* |
| ☑ S2c: Compaction | Test | LOR* |
| **S3 \| DRIVEN DEEP FOUNDATIONS (PILES)** | | |
| ☐ S3a: Materials and Members | Continuous | GE* |
| ☐ S3b: Pile Capacity | Test | LOR* |
| ☐ S3c: Driving Operations | Continuous | GE* |
| ☐ S3d: Pile Installation | Continuous | GE* |
| ☐ S3e: Specialty Piles | * | * |
| **S4 \| CAST-IN-PLACE DEEP FOUNDATIONS (PIERS)** | | |
| ☑ S4a: Drilling Operations | Continuous | PI |
| ☑ S4b: Pier Construction | Continuous | PI |
| ☐ S4c: Bearing Strata | Continuous | GE* |
| **S5 \| RETAINING WALLS** | | |
| ☐ S5a: Backfill Placement | Continuous | GE* |
| ☐ S5b: Soil Reinf. and Drainage | Continuous | GE* |
| ☐ S5c: Segmental Retaining Walls | Continuous | GE* |
| **S6 \| OTHER SOILS** | | |
| ☐ S6a: Soil Improvement Test | Test | GE* |
| ☐ S6b: Soil Improvement Inspection | Continuous | GE* |
| ☐ S6c: Not used. | N/A | N/A |
| ☐ S6d: Not used. | N/A | N/A |
| ☐ S6e: Not used. | N/A | N/A |
| ☐ S6f: Not used. | N/A | N/A |
| ☐ S6g: Not used. | N/A | N/A |
| ☐ S6h: Not used. | N/A | N/A |
| ☐ S6j: Not used. | N/A | N/A |
| ☐ S6k: Not used. | N/A | N/A |
| ☐ S6m: Not used. | N/A | N/A |
| ☐ S6n: Not used. | N/A | N/A |
| ☐ S6p: Not used. | | |
| ☐ S6q: Not used. | | |
| * See Appendix for additional information. | | |

| | TYPE | BY |
|---|---|---|
| **C1 \| CAST-IN-PLACE CONCRETE** | | |
| ☑ C1a: Mix Design | Continuous | SI |
| ☑ C1b: Reinforcing Steel | Test | LOR |
| ☑ C1c: Concrete Material | Test | LOR |
| ☑ C1d: Strength Test | Test | LOR |
| ☑ C1e: Batch Plant Inspection | Continuous | SI |
| **C2 \| PRESTRESSED CONCRETE** | | |
| ☐ C2a: Tendons and Anchorage | Test | LOR |
| ☐ C2b: Tendon Placement | Periodic | SI |
| ☐ C2c: Concrete Strength | Periodic | SI |
| ☐ C2d: Stressing Operations | Continuous | SI |
| **C3 \| PRECAST CONCRETE** | | |
| ☐ C3a: General Fabrication | Continuous | SI |
| ☐ C3b: General Erection | Periodic | SI* |
| ☐ C3c: Diaphragm Connections | Continuous | SI |
| ☐ C3d: Diaphragm Tolerances | Periodic | SI |
| **C4 \| SHOTCRETE** | | |
| ☐ C4a: Placement | Continuous | SI |
| ☐ C4b: Shotcrete Material | Test | LOR |
| **C5 \| POST-INSTALLED ANCHORS** | | |
| ☐ C5a: Inspection | See notes | SI* |
| ☐ C5b: Test | Test | LOR |
| **C6 \| OTHER CONCRETE** | | |
| ☐ C6a: Not used. | N/A | N/A |
| ☐ C6b: Not used. | N/A | N/A |
| ☐ C6c: Not used. | N/A | N/A |
| ☐ C6d: Not used. | N/A | N/A |
| ☐ C6e: Not used. | N/A | N/A |
| ☐ C6f: Not used. | N/A | N/A |
| ☐ C6g: Not used. | N/A | N/A |
| ☐ C6h: Not used. | N/A | N/A |
| ☐ C6j: Not used. | N/A | N/A |
| ☐ C6k: Not used. | N/A | N/A |
| ☐ C6m: Not used. | | |
| Not used. | | |
| * See Appendix for additional information. | | |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)  Page 1 of 4
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

NOTE: Undefined sections and table references found in this appendix are from the CBC, or California Building Code

**S1. GENERAL:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S1a: Site Preparation** \| Verify that: · Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. · Foundation excavations are extended to proper depth and have reached proper material. · Materials below footings are adequate to achieve the design bearing capacity. | Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report. |

**S2. SOIL COMPACTION AND FILL:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S2a: Fill Materials** \| Perform classification and testing of fill materials. | * Under the supervision of the geotechnical engineer. |
| **S2b: Fill Placement** \| Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill. | * Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the end of this form listing exemptions for limitations. |
| **S2c: Compaction** \| Compaction testing. | Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report. |

**S3. DRIVEN DEEP FOUNDATIONS (PILES):**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S3a: Materials and Members** \| Verify pile materials, sizes and lengths comply with the requirements. | * By geotechnical engineer or his or her qualified representative. |
| **S3b: Pile Capacity** \| Determine capacities of test piles and conduct additional load tests as required. | * Under the supervision of the geotechnical engineer. |
| **S3c: Driving Operations** \| Inspect driving operations and maintain complete and accurate records for each pile. | * By geotechnical engineer or his or her qualified representative. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

| Test or Special Inspection | Code References and Notes |
|---|---|
| **C3b: General Erection** \| Inspect erection of precast concrete members. | **Table 1705A.3 Item 10.** |
| **C3c: Diaphragm Connections** \| For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts. 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field. | **Table 1705A.3 Item 11.** |
| **C3d: Diaphragm Tolerances** \| Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5. | **Table 1705A.3 Item 12** |

**C4. SHOTCRETE (IN ADDITION TO SECTION C1):**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **C4a: Placement** \| Inspect shotcrete placement for proper application techniques. | **1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4, and ACI 506R.** |
| **C4b: Shotcrete Material** \| Sample and test shotcrete (f'c). | **1908A.2 and 1705A.3.9.** |

**C5. POST-INSTALLED ANCHORS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **C5a: Inspection** \| Inspect installation of post-installed anchors | **1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318 Sections 26.7.2, 26.13.1, 26.13.3.2, 26.13.3.3. * May be performed by the project inspector when specifically approved by DSA. |
| **C5b: Test** \| Test post-installed anchors. | **1910A.5.** (See Appendix (end of this form) for exemptions.) |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**M4. OTHER MASONRY:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **M4a.** \| Not used. | N/A |
| **M4b.** \| Not used. | N/A |
| **M4c.** \| Not used. | N/A |
| **M4d.** \| Not used. | N/A |
| **M4e.** \| Not used. | N/A |
| **M4f.** \| Not used. | N/A |
| **M4g.** \| Not used. | N/A |
| **M4h.** \| Not used. | N/A |
| **M4j.** \| Not used. | N/A |
| **M4k.** \| Not used. | N/A |
| **M4m.** \| Not used. | Not used. |
| **M4n.** \| Not used. | Not used. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**S/A9. ANCHOR BOLTS AND ANCHOR RODS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A9a: Anchor Rods and Bolts** \| Anchor Bolts and Anchor Rods | Identify, sample and test anchor bolts and anchor rods not meeting exemptions identified in Section 1 of IR 17-11. |
| **S/A9b: Other Threaded Rods** \| Threaded rod not used for foundation anchorage. | Identify, sample and test threaded rods not meeting exemptions identified in Section 1 of IR 17-11. |

**S/A10. STORAGE RACK SYSTEMS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A10a: Material Verification** \| Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents. | Table 1705A.13.7 |
| **S/A10b: Fabrication** \| Fabricated storage rack elements. | 1704A.2.5; Table 1705A.13.7 |
| **S/A10c: Anchorage** \| Storage rack anchorage installation. | ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7 |
| **S/A10d: Completed System** \| Completed storage rack system to indicate compliance with the approved construction documents. | Table 1705A.13.7. * May be preformed by the project inspector when specifically approved by DSA. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**X1. OTHER:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **X01.** \| Load test for identified product(s): | 1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation. |
| **X02.** \| Installation torque for non-HS bolts on communication tower identified as essential service facility projects (ESFP). | Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications. *EXCEPTION: Non-ESFP may use PI without need for notification to DSA. |
| **X03.** \| Not used. | N/A |
| **X04.** \| Not used. | N/A |
| **X05.** \| Not used. | N/A |
| **X06.** \| Not used. | N/A |
| **X07.** \| Not used. | N/A |
| **X08.** \| Not used. | N/A |
| **X09.** \| Not used. | N/A |
| **X10.** \| Not used. | N/A |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

| | TYPE | BY |
|---|---|---|
| **M1 \| STRUCTURAL MASONRY f'm PSI:** | | |
| ☐ M1a: Mill Certificates - Reinf. | Periodic | SI* |
| ☐ M1b: Material Certificates | Test | LOR |
| ☐ M1c: Strength Test | Test | LOR |
| ☐ M1d: Mortar Proportions | Periodic | SI |
| ☐ M1e: Grout Proportions | Periodic | SI |
| ☐ M1f: Batch Plant Inspection | | SI |
| ☐ M1g: Core Tests | Test | LOR |
| ☐ M1h: Prisms | Continuous | SI |
| ☐ M1i: Dowels and Supports | Periodic | SI |
| ☐ M1j: Reinforcement and Members | Periodic | SI |
| ☐ M1k: Reinforcement Placement | Continuous | SI |
| ☐ M1l: Grout Placement | Continuous | SI |
| ☐ M1m: Unit Layup and Joints | Periodic | SI* |
| ☐ M1n: Cold/Hot Weather Work | Periodic | SI |
| ☐ M1o: Anchors and Embeds | Continuous | SI |
| ☐ M1p: Grout Cavity | Continuous | SI |
| **M2 \| VENEER OR GLASS BLOCK PARTITIONS** | | |
| ☐ M2a: Mortar and Grout | Periodic | SI |
| ☐ M2b: Unit Layup and Joints | Periodic | SI |
| ☐ M2c: Wires and Connector | Periodic | SI |
| ☐ M2d: Anchors and Embeds | Periodic | SI |
| ☐ M2e: Cold/Hot Weather Work | Periodic | SI* |
| ☐ M2f: Adhered Veneer Bond | Test | LOR |
| **M3 \| POST-INSTALLED ANCHORS** | | |
| ☐ M3a: Inspection | Varies* | SI* |
| ☐ M3b: Test | Test | LOR |
| **M4 \| OTHER MASONRY** | | |
| ☐ M4a: Not used. | N/A | N/A |
| ☐ M4b: Not used. | N/A | N/A |
| ☐ M4c: Not used. | N/A | N/A |
| ☐ M4d: Not used. | N/A | N/A |
| ☐ M4e: Not used. | N/A | N/A |
| ☐ M4f: Not used. | N/A | N/A |
| ☐ M4g: Not used. | N/A | N/A |
| ☐ M4h: Not used. | N/A | N/A |
| ☐ M4j: Not used. | N/A | N/A |
| ☐ M4k: Not used. | N/A | N/A |
| ☐ M4m: Not used. | | |
| ☐ M4n: Not used. | | |
| ☐ M4p: Not used. | | |
| * See Appendix for additional information. | | |

| | TYPE | BY |
|---|---|---|
| **S/A1 \| STEEL AND ALUMINUM** | | |
| ☑ S/A1a: Material Identification | Periodic | * |
| ☑ S/A1b: Unidentified Material | Test | LOR |
| ☑ S/A1c: Steel Fabrication | Periodic | SI |
| ☐ S/A1d: Buckling Restrained Brace | Test* | LOR |
| **S/A2 \| HIGH-STRENGTH BOLTS** | | |
| ☐ S/A2a: Product Verification | Periodic | SI |
| ☐ S/A2b: Bolts, Nuts, and Washers | Test | LOR |
| ☐ S/A2c: Snug Tight | Periodic | SI |
| ☐ S/A2d: Pretensioned / Slip-Critical | * | SI |
| **S/A3 \| WELDING** | | |
| ☑ S/A3a: Weld Material | Periodic | SI |
| ☑ S/A3b: Certificate of Compliance | Periodic | SI |
| ☑ S/A3c: WPS and Qualifications | Periodic | SI |
| **S/A4 \| SHOP WELDING** | | |
| ☑ S/A4a: Weld Category A | Continuous | SI |
| ☑ S/A4b: Weld Category B | Periodic | SI |
| ☐ S/A4c: Stairs and Railing | Periodic | SI |
| ☐ S/A4d: Reinf. Steel Weldability | Periodic | SI |
| ☐ S/A4e: Reinforcing Steel | Continuous | SI |
| **S/A5 \| FIELD WELDING** | | |
| ☑ S/A5a: Weld Category A | Continuous | SI |
| ☑ S/A5b: Weld Category B | Periodic | SI |
| ☐ S/A5c: End Welded Studs | Periodic | SI |
| ☐ S/A5d: Deck Welds | Periodic | SI |
| ☐ S/A5e: Cold-Formed Steel | Periodic | SI |
| ☐ S/A5f: Stairs and Railing | Periodic | SI |
| ☐ S/A5g: Reinf. Steel Weldability | Periodic | SI |
| ☐ S/A5h: Reinforcing Steel | Continuous | SI |
| **S/A6 \| NONDESTRUCTIVE TESTING** | | |
| ☑ S/A6a: Ultrasonic | Test | LOR |
| ☐ S/A6b: Magnetic Particle | Test | LOR |
| ☐ S/A6c: Not used. | N/A | N/A |
| ☐ S/A6d: Not used. | N/A | N/A |
| ☐ S/A6e: Not used. | N/A | N/A |
| **S/A7 \| STEEL JOISTS AND TRUSSES** | | |
| ☐ S/A7a: Fabrication | Continuous | SI |
| **S/A8 \| SPRAYED FIRE-RESISTANT MATERIALS** | | |
| ☐ S/A8a: Surface and Installation | Periodic | SI |
| ☐ S/A8b: Density | Test | LOR |
| ☐ S/A8c: Bond: Adhesion/Cohesion | Test | LOR |
| * See Appendix for additional information. | | |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)  Page 2 of 4
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S3d: Pile Installation** \| Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage. | * By geotechnical engineer or his or her qualified representative. |
| **S3e: Specialty Piles** \| For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge. | * As defined on drawings or specifications. |

**S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**

| Test or Special Inspection | Code References and Note |
|---|---|
| **S4a: Drilling Operations** \| Inspect drilling operations and maintain complete and accurate records for each pier. | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations. |
| **S4b: Pier Construction** \| Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes. | Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations. |
| **S4c: Bearing Strata** \| Confirm adequate end strata bearing capacity. | Provide tests and inspections per CONCRETE section below. |

**S5. RETAINING WALLS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S5a: Backfill Placement** \| Placement, compaction and inspection of backfill. | 1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above). |
| **S5b: Soil Reinf. and Drainage** \| Placement of soil reinforcement and/or drainage devices. | * By geotechnical engineer or his or her qualified representative. |
| **S5c: Segmental Retaining Walls** \| Segmental retaining walls; inspect placement of units, dowels, connectors, etc. | * By geotechnical engineer or his or her qualified representative. See DSA IR 18-2. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**C6. OTHER CONCRETE:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **C6a.** \| Not used. | N/A |
| **C6b.** \| Not used. | N/A |
| **C6c.** \| Not used. | N/A |
| **C6d.** \| Not used. | N/A |
| **C6e.** \| Not used. | N/A |
| **C6f.** \| Not used. | N/A |
| **C6g.** \| Not used. | N/A |
| **C6h.** \| Not used. | N/A |
| **C6j.** \| Not used. | N/A |
| **C6k.** \| Not used. | N/A |
| **C6m.** \| Not used. | Not used. |
| **C6n.** \| Not used. | Not used. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A1a: Material Identification** \| Verify identification of all materials and: · Mill certificates indicate material properties that comply with requirements. · Material sizes, types and grades comply with requirements. | **Table 1705A.2.1 Item 3a-3c.** 2202A.1; AISI S100 Section A3.1 & A3.2, AISI S240 Section A3 & A5, AISI S220 Sections A4 & A6. *By special inspector or qualified technician when performed off-site. |
| **S/A1b: Unidentified Material** \| Test unidentified materials | **2202A.1.** |
| **S/A1c: Steel Fabrication** \| Verify and document steel fabrication per DSA-approved construction documents. | Not applicable to cold-formed steel light-frame construction, except for trusses **(1705A.2.4)**. |
| **S/A1d: Buckling Restrained Brace** \| Verify and document steel fabrication per DSA-approved construction documents. | Testing and special inspections in accordance with IR 22-4. For DSA accepted fabrication shops, BRB manufacturer's Certificate of Compliance in lieu of testing and special inspections. See IR 22-4. |

**S/A2. HIGH-STRENGTH BOLTS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A2a: Product Verification** \| Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents. | **Table 1705A.2.1 Items 1a & 1b, 2202A.1;** AISC 360 Section A3.3, J3.1, and N3.2; RCSC Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9. |
| **S/A2b: Bolts, Nuts, and Washers** \| Test high-strength bolts, nuts and washers. | **Table 1705A.2.1 Item 1c, 2213A.1;** RCSC Section 7.2; DSA IR 17-8. |
| **S/A2c: Snug Tight** \| Bearing-type ("snug tight") connections. | **Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2;** AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Section 9.1; DSA IR 17-9. |
| **S/A2d: Pretensioned/ Slip-Critical** \| Pretensioned and slip-critical connections. | **Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Sections 9.2 & 9.3; DSA IR 17-9 "Continuous" or "Periodic" depends on the tightening method used. |

**S/A3. WELDING:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A3a: Weld Material** \| Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS. | **1705A.2.5, Table 1705A.2.1 Items 4 & 5;** AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3. |
| **S/A3b: Certificate of Compliance** \| Verify weld filler material manufacturer's certificate of compliance. | DSA IR 17-3. |
| **S/A3c: WPS and Qualifications** \| Verify WPS, welder qualifications and equipment. | DSA IR 17-3. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**S/A11. Other Steel**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A11a.** \| Not used. | N/A |
| **S/A11b.** \| Not used. | N/A |
| **S/A11c.** \| Not used. | N/A |
| **S/A11d.** \| Not used. | N/A |
| **S/A11e.** \| Not used. | N/A |
| **S/A11f.** \| Not used. | N/A |
| **S/A11g.** \| Not used. | N/A |
| **S/A11h.** \| Not used. | N/A |
| **S/A11j.** \| Not used. | N/A |
| **S/A11k.** \| Not used. | N/A |
| **S/A11m.** \| Not used. | Not used. |
| **S/A11n.** \| Not used. | Not used. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

| | TYPE | BY |
|---|---|---|
| **S/A9 \| ANCHOR BOLTS AND ANCHOR RODS** | | |
| ☑ S/A9a: Anchor Rods and Bolts | Test | LOR |
| ☐ S/A9b: Other Threaded Rods | Test | LOR |
| **S/A10 \| STORAGE RACK SYSTEMS** | | |
| ☐ S/A10a: Material Verification | Periodic | SI |
| ☐ S/A10b: Fabrication | Periodic | SI |
| ☐ S/A10c: Anchorage | Periodic | SI |
| ☐ S/A10d: Completed System | Periodic | SI* |
| **S/A11 \| OTHER STEEL AND ALUMINUM** | | |
| ☐ S/A11a: Not used. | N/A | N/A |
| ☐ S/A11b: Not used. | N/A | N/A |
| ☐ S/A11c: Not used. | N/A | N/A |
| ☐ S/A11d: Not used. | N/A | N/A |
| ☐ S/A11e: Not used. | N/A | N/A |
| ☐ S/A11f: Not used. | N/A | N/A |
| ☐ S/A11g: Not used. | N/A | N/A |
| ☐ S/A11h: Not used. | N/A | N/A |
| ☐ S/A11j: Not used. | N/A | N/A |
| ☐ S/A11k: Not used. | N/A | N/A |
| **W1 \| PREFABRICATED WOOD TRUSSES** | | |
| ☐ W1a: Open Web Truss Fabrication | Continuous | SI |
| ☐ W1b: Metal Plate Truss Fabrication | Continuous | SI |
| **W2 \| MANUFACTURED WOOD ELEMENTS** | | |
| ☐ W2a: GL Timber Fabrication | Continuous | SI |
| ☐ W2b: CLT Fabrication | Continuous | SI |
| ☐ W2c: Mass Timber Erection | Periodic | SI |
| ☐ W2d: Connections Type A | Periodic | SI |
| ☐ W2e: Connections Type B | Continuous | SI |
| ☐ W2f: Sealants | Periodic | SI |
| **W3 \| OTHER WOOD** | | |
| ☐ W3a: Not used. | N/A | N/A |
| ☐ W3b: Not used. | N/A | N/A |
| ☐ W3c: Not used. | N/A | N/A |
| ☐ W3d: Not used. | N/A | N/A |
| ☐ W3e: Not used. | N/A | N/A |
| ☐ W3f: Not used. | N/A | N/A |
| ☐ W3g: Not used. | N/A | N/A |
| ☐ W3h: Not used. | N/A | N/A |
| * See Appendix for additional information. | | |

| | TYPE | BY |
|---|---|---|
| **X \| OTHER** | | |
| ☐ X01: Product Load Test* | Test | LOR |
| ☐ X02: Non-HSB Installation Torque | Continuous | SI* |
| ☐ X03: Not used. | N/A | N/A |
| ☐ X04: Not used. | N/A | N/A |
| ☐ X05: Not used. | N/A | N/A |
| ☐ X06: Not used. | N/A | N/A |
| ☐ X07: Not used. | N/A | N/A |
| ☐ X08: Not used. | N/A | N/A |
| ☐ X09: Not used. | N/A | N/A |
| ☐ X10: Not used. | N/A | N/A |

**EXEMPTIONS**

Those items identified on the DSA-approved construction documents with a note indicating they are not part of the DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.

- ☐ Soils: Eligible shallow foundation elements**.
- ☐ Soils: Eligible deep foundation elements - type 1**.
- ☐ Soils: Eligible deep foundation elements - type 2**.
- ☐ Concrete/Masonry: Eligible post-installed anchors**.
- ☐ Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2.
- ☐ Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4.
- ☐ Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2.
- ☐ Masonry: Freestanding site walls and retaining walls per DSA IR 21-1.
- ☐ Concrete: Eligible precast elements**.
- ☐ Welding: Eligible fences and gates**.
- ☐ Welding: Eligible railing and ramps**.
- ☐ Welding: Eligible interior cold-formed steel framing**.
- ☐ Welding: Eligible equipment curbs**.
- ☐ Welding: Eligible components supporting MEP distribution systems**.
- ☐ Welding: Eligible mounts and recreational equipment**.
- ☐ Welding: Eligible nonstructural components**.

** See Appendix for eligibility requirements.

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)  Page 3 of 4
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**S6 | OTHER SOILS**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S6a** \| Soil Improvements | Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. *By geotechnical engineer or his or her qualified representative |
| **S6b** \| Inspection of Soil Improvements | * By geotechnical engineer or his or her qualified representative. |
| **S6c.** \| Not used. | N/A |
| **S6d.** \| Not used. | N/A |
| **S6e.** \| Not used. | N/A |
| **S6f.** \| Not used. | N/A |
| **S6g.** \| Not used. | N/A |
| **S6h.** \| Not used. | N/A |
| **S6j.** \| Not used. | N/A |
| **S6k.** \| Not used. | N/A |
| **S6m.** \| Not used. | N/A |
| **S6n.** \| Not used. | N/A |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**M1. STRUCTURAL MASONRY:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **M1a: Mill Certificates - Reinf.** \| Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners and metal accessories. See item C1(b) for identification, sampling and testing of reinforcing steel. | **2103A.4**; TMS 602-16 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10 for unidentified reinforcing steel. |
| **M1b: Material Certificates** \| Producer's certificate of compliance for masonry units, mortar and grout materials. | **1705A.4, 2103A.2, 2103A.3, 2105A.5;** TMS 602 Articles 1.5B.2, 2.1, 2.2, 2.6A and 2.6B, and Table 6 footnote 3. |
| **M1c: Strength Test** \| Test masonry (f'm). | **1705A.4. For Unit Strength: 2105A.3**: TMS 602 Articles 1.4B.2, 1.5B.1 & 1.5B.2. **For Prism (required when f'm > 2000 psi):2105A.2;** TMS 602 Articles 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2. |
| **M1d: Mortar Proportions** \| Verify proportions or properties of site-prepared, premixed or preblended mortar. | TMS 602, Table 3 (row 5), Table 4 Item 1a. DSA PR 20-01. (See Appendix (end of this form) for exemptions.) |
| **M1e: Grout Proportions** \| Verify proportions or properties of site-prepared, premixed or preblended grout. | TMS 602, Table 3 (row 5), Table 4 Item 2d. (See Appendix (end of this form) for exemptions.) |
| **M1f: Batch Plant Inspection** \| Batch plant inspection: Periodic | Default of **'Continuous'** per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1**, or not required per **1705A.3.3.2.** See IR 17-13. Refer to TMS 602 Table 3 and Table 4, Item #4a. (See Appendix (end of this form) for exemptions.) |
| **M1g: Core Tests** \| Test core-drilled samples. | **2105A.4.** (See Appendix (end of this form) for exemptions.) |
| **M1h: Prisms** \| Inspect preparation of prisms. | TMS 602 Articles 1.4.B.3 & 1.4.B.4 & Table 4 Item 4. |
| **M1i: Dowels and Supports** \| Verify size, location and condition of all dowels, construction supporting masonry, etc. | |
| **M1j: Reinforcement and Members** \| Verify size, grade and type of reinforcement, connectors, and anchor bolts. Verify size and location of structural members. | TMS 602 Table 4, Items 1c & 3c |
| **M1k: Reinforcement Placement** \| Inspect placement of reinforcement, anchor bolts, and connectors. | TMS 602 Table 4 Item 2c. |
| **M1l: Grout Placement** \| Placement, consolidation, and reconsolidation of grout. | TMS 602 Table 4 Item 3h. |
| **M1m: Unit Layup and Joints** \| Inspect placement of masonry units and construction of mortar joints. | TMS 602 Table 4 Item 3b. |
| **M1n: Cold/Hot Weather Work** \| Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90° F). | TMS 602 Table 4 Item 3f. * Maybe performed by the project inspector when specifically approved by DSA. |
| **M1o: Anchors and Embeds** \| Inspect type, size and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry | TMS 602 Table 4 Item 3d. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A4a: Weld Category A** \| Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | **Table 1705A.2.1 Items 5a.1-4;** AISC 360 (and AISC 341 as applicable); DSA IR 17-3. |
| **S/A4b: Weld Category B** \| Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | **Table 1705A.2.2; Table 1705A.2.1 Items 5a5 & 5a6;** AISC 360 (and AISC 341 as applicable); DSA IR 17-3. |
| **S/A4c: Stairs and Railing** \| Inspect welding of stairs and railing systems. | **1705A.2.1**; AISC 360 (and AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. |
| **S/A4d: Reinf. Steel Weldability** \| Verification of reinforcing steel weldability other than ASTM A706. | **1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| **S/A4e: Reinforcing Steel** \| Inspect welding of reinforcing steel. | **Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3 |

**S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A5a: Weld Category A** \| Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds. | **Table 1705A.2.1 Items 5a.1-4;** AISC 360 (AISC 341 as applicable); DSA IR 17-3. |
| **S/A5b: Weld Category B** \| Inspect single-pass fillet welds ≤ 5/16". | **Table 1705A.2.1 Item 5a5;** AISC 360 (AISC 341 as applicable); DSA IR 17-3. |
| **S/A5c: End Welded Studs** \| Inspect end-welded studs (ASTM A-108) installation (including bend test). | **2213A.2;** AISC 360 (AISC 341 as applicable); AWS D1.1; DSA IR 17-3. |
| **S/A5d: Deck Welds** \| Inspect floor and roof deck welds. | **1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360 (AISC 341 as applicable); AWS D1.3; DSA IR 17-3. |
| **S/A5e: Cold-Formed Steel** \| Inspect welding of structural cold-formed steel. | **1705A.2.5;** AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240 Chapter D shall also apply. * Maybe performed by the project inspector when specifically approved by DSA. |
| **S/A5f: Stairs and Railing** \| Inspect welding of stairs and railing systems. | **1705A.2.1**; AISC 360 (AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * Maybe performed by the project inspector when specifically approved by DSA. |
| **S/A5g: Reinf. Steel Weldability** \| Verification of reinforcing steel weldability. | **1705A.3.1**; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates. |
| **S/A5h: Reinforcing Steel** \| Inspect welding of reinforcing steel. | **Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8;** AWS D1.4; DSA IR 17-3. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**W1. PREFABRICATED WOOD TRUSSES:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **W1a: Open Web Truss Fabrication** \| Inspect fabrication of manufactured open-web trusses. | **1705A.5.6**; DSA IR 23-8. |
| **W1b: Metal Plate Truss Fabrication** \| Inspect fabrication of manufactured metal-plate- connected trusses. | **1705A.5.6, 1705A.5.7;** DSA IR 23-4. |

**W2. MANUFACTURED WOOD STRUCTURAL ELEMENTS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **W2a: GLS Timber Fabrication** \| Inspect fabrication of structural glued-laminated timber.* | * See **1705A.5.5** for exceptions |
| **W2b: CLT Fabrication** \| Inspect fabrication of cross-laminated timber. | **1705A.5.5** |
| **W2c: Mass Timber Erection** \| Inspect erection of mass timber. | **Table 1705A.5.3, Item 2** |
| **W2d: Connections Type A** \| Inspect mass timber connections with threaded fasteners, bolts, and/or adhesive anchors other than those described in item e below. Inspect concealed mass timber connections. | Table **1705A.5.3**, Items 3.1, 3.3, 3.4, 3.5. For threaded fasteners: Verify use of proper installation equipment. Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth. |
| **W2e: Connections Type B** \| Inspect mass timber connections with adhesive anchors installed in a horizontal or upward orientation. | **Table 1705A.5.3, Item 3.2** |
| **W2f: Sealants** \| Inspect application of sealants or adhesives applied to mass timber elements. | **1705A.20** |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Any items indicated on the approved construction documents with a note stating that the items are not part of the DSA approval are not considered in this form. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of nonstructural components, etc., per Title 24, Part 2, Chapter 17A.

**Legend to TYPE and BY Columns:**

- **Continuous** - Indicates continuous special inspection is required.
- **Periodic** - Indicates periodic special inspection is required.
- **Test** - Indicates a test is required.
- **GE** – Indicates special inspection shall be performed by a registered geotechnical engineer or his/her authorized representative, usually associated with the Laboratory of Record.
- **LOR** – Indicates test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program (i.e., the Laboratory of Record for the project). See CAC Section 4-335.
- **PI** - Indicates special inspection may be performed by a project inspector when specifically approved by DSA.
- **SI** - Indicates special inspection shall be performed by an appropriately qualified/approved special inspector.

**Required Verified Reports:**

1. Structural Testing and Inspection: Form DSA 291
2. Concrete Batch Plant Inspection: Form DSA 291
3. Shop Welding Inspection: Form DSA 291 or DSA 292
4. Field Welding Inspection: Form DSA 291 or Form DSA 292

Verified reports are required on the following DSA forms:
DSA 291: Laboratory of Record Verified Report
DSA 292: Special Inspectors Employed Directly by the District Verified Report
DSA 293: Geotechnical Verified Report

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

**Name of Architect or Engineer in General Responsible Charge:**

**Name of Structural Engineer of Record (when applicable):**

**Signature of Architect or Structural Engineer:**

**DSA STAMP**

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)  Page 4 of 4
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**C1. CAST-IN-PLACE CONCRETE**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **C1a: Mix Design** \| Verify use of required design mix. | **Table 1705A.3 Item 5, 1903A.5, 1903A.7, 1904A.1, 1904A.2, 1910A.1 ; ACI 318 Ch. 19, 26.4, 26.13.3.2.** |
| **C1b: Reinforcing Steel** \| Identify, sample, and test reinforcing steel | **Table 1705A.3 Item 1, 1705A.3.9, 1908A.1, 1910A.2; ACI 318 Ch. 20 and Sections 25.2, 25.3, 25.5.1, 26.6.1; DSA IR 17-10 and BU 24-02. (See Appendix (end of this form) for exemptions.)** |
| **C1c: Concrete Material** \| During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | **Table 1705A.3 Item 6, 1705A.3.9, 1905A.1.17; ASTM C31, ASTM C172; ACI 318 Sections 26.4, 26.5 & 26.12.** |
| **C1d: Strength Test** \| Test concrete (f'c). | **1905A.1.17; ACI 318 Section 26.12.** |
| **C1e: Batch Plant Inspection** \| Batch plant inspection: Continuous | **Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or not required per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)** |

**C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **C2a: Tendons and Anchorage** \| Sample and test prestressing tendons and anchorages. | **1705A.3.4 Table 1705A.3 Item 1, 1910A.3; ACI 318 Ch. 20 and Sections 25.2, 26.6.1.** |
| **C2b: Tendon Placement** \| Inspect placement of prestressing tendons. | **1705A.3.4, Table 1705A.3 Items 1 & 9; ACI 318 Ch. 20 and Sections 25.2, 26.6.1-26.6.3.** |
| **C2c: Concrete Strength** \| Verify in-situ concrete strength prior to stressing of post-tensioning tendons. | **Table 1705A.3 Item 13; ACI 318 Sections 26.10.2, 26.11.2, 26.13.3.3. Special inspector to verify specified concrete strength test prior to stressing.** |
| **C2d: Stressing Operations** \| Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons. | **1705A.3.4, Table 1705A.3 Item 9; ACI 318 Sections 26.10.2, 26.13.1. 26.13.3.2.** |

**C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **C3a: General Fabrication** \| 1. Inspect fabrication of precast concrete members. * 2. Inspect reinforcement of the following precast concrete elements or system(s): a. special moment frames. b. boundary elements of special structural walls. c. coupling beams. | **1705A.3 Item 1, 7.** See Appendix for exemptions. *May be periodic where fabrication occurs in a PCI-certified plant. For underground structures, NPCA plant certification is acceptable. PCI MNL-116-21; PCI MNL-117-16; NPCA QCM-24. See IR A-15. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

| Test or Special Inspection | Code References and Notes |
|---|---|
| to structural members, frames and other construction. | |
| **M1p: Grout Cavity** \| Inspect grout space, including mortar protrusions, prior to placement of grout. | TMS 602 Table 4 Item 2a. |

**M2. VENEER OR GLASS BLOCK PARTITIONS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **M2a: Mortar and Grout** \| Verify proportions of site prepared mortar and grout and/or verify certification of premixed mortar. | TMS 602 Table 3 (row 5) and Table 4 Items 1a & 2d. |
| **M2b: Unit Layup and Joints** \| Inspect placement of units and construction of mortar joints. | TMS 602 Table 4 Item 3b. |
| **M2c: Wires and Connector** \| Inspect placement of wire, connectors and anchors | TMS 602 Table 4 Item 2c. |
| **M2d: Anchors and Embeds** \| Inspect type, size and location of anchors and all other items to be embedded in masonry veneer including details of anchorage of masonry to veneer backing, frames and other construction. | TMS 602 Table 4 Item 3d. |
| **M2e: Cold/Hot Weather Work** \| Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90° F). | TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA. |
| **M2f: Adhered Veneer Bond** \| Test adhered veneer bond strength. | **1410.2.1**; TMS 402 Article 12.3.2.4. **(Field-constructed mock-up using specified unit, mortar, and substrate, laboratory tested in accordance with ASTM C1823).** |

**M3. POST-INSTALLED ANCHORS IN MASONRY:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **M3a: Inspection** \| Inspect installation of post-installed anchors | **1617A.1.19, 1705A.4, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic);** ACI 318 Section 26.13. * May be performed by the project inspector when specifically approved by DSA. (See Appendix (end of this form) for exemptions.) |
| **M3b: Test** \| Test post-installed anchors. | **1705A.4, 1910A.5.** (See Appendix (end of this form) for exemptions.) |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**S/A6. NONDESTRUCTIVE TESTING:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A6a: Ultrasonic** \| Ultrasonic | **1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5;** AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| **S/A6b: Magnetic Particle** \| Magnetic Particle | **1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5;** AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2. |
| **S/A6c:** Not used. | N/A |
| **S/A6d:** Not used. | N/A |
| **S/A6e:** Not used. | N/A |

**S/A7. STEEL JOISTS AND TRUSSES:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A7a: Fabrication** \| Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist. | **1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses. |

**S/A8. SPRAYED FIRE-RESISTANT MATERIALS:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **S/A8a: Surface and Installation** \| Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents. | **1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.** |
| **S/A8b: Density** \| Test density. | **1705A.15.1, 1705A.15.5, ASTM E605** |
| **S/A8c: Bond: Adhesion/Cohesion** \| Bond strength adhesion/cohesion. | **1705A.15.1, 1705A.15.6, ASTM E736** |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

DSA 103 - 22
### Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

**W3. OTHER Wood:**

| Test or Special Inspection | Code References and Notes |
|---|---|
| **W3a.** \| Not used. | N/A |
| **W3b.** \| Not used. | N/A |
| **W3c.** \| Not used. | N/A |
| **W3d.** \| Not used. | N/A |
| **W3e.** \| Not used. | N/A |
| **W3f.** \| Not used. | N/A |
| **W3g.** \| Not used. | N/A |
| **W3h.** \| Not used. | N/A |
| **W3j.** \| Not used. | N/A |
| **W3k.** \| Not used. | N/A |
| **W3m.** \| Not used. | Not used. |
| **W3n.** \| Not used. | Not used. |

Project Name: Nevco PC  Application No.: 04-124534  Increment:
School District: Nevco PC  File No.: PC-90
DGS DSA 103-22 (Revised 4/7/25)
DIVISION OF THE STATE ARCHITECT  DEPARTMENT OF GENERAL SERVICES  STATE OF CALIFORNIA

---

NOTE: THE DSA 103 SHOWN INCLUDES MINIMUM SPECIAL INSPECTION REQUIREMENTS AND IS PROVIDED AS EXAMPLE. ADDITIONAL TESTING AND INSPECTIONS MAY BE REQUIRED BEYOND THE SCOPE OF THE SCOREBOARD. A FINAL DSA 103 FORM SHALL BE SUBMITTED BY THE DESIGN PROFESSIONAL OF RECORD AS PART OF THE SITE SPECIFIC SUBMITTAL REQUIREMENTS. THE DESIGN PROFESSIONAL OF RECORD IS RESPONSIBLE FOR REVIEWING PROJECT SPECIFIC SPECIAL INSPECTION REPORTS. Buehler Engineering Inc STRUCTURAL ENGINEERS OR NEVCO ARE NOT RESPONSIBLE FOR PROVIDING THE PROJECT DSA 103 OR REVIEWING SPECIAL INSPECTION REPORTS.
DSA 103 CAN BE FOUND
AT:https://forms.dgs.ca.gov/SignIn?ReturnUrl=%2FDSA-103-22%2F%3Futm_medium%3Demail%26utm_source%3Dgovdelivery

---

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

BUEHLER

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PAROLINI
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 04.11.2025
PC SEOR SEAL

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Phone: (618) 664-0360
www.nevco.com

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-124534 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 05/14/2025
DSA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022

A separate project application for construction is required.

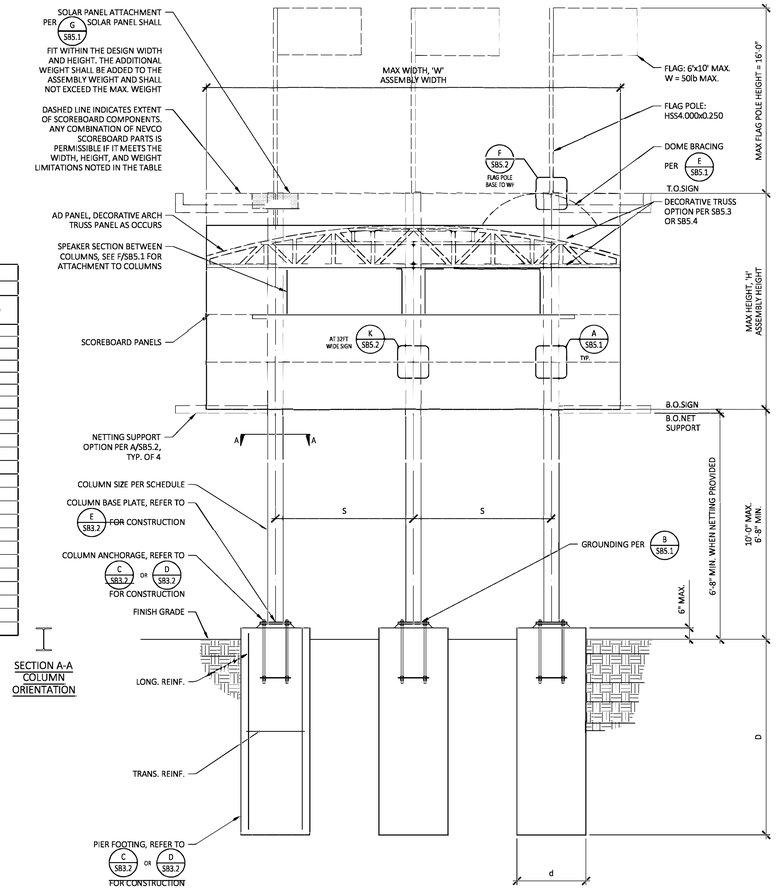
EXAMPLE DSA 103 - TESTING AND INSPECTIONS

SHEET INFORMATION

| | |
|---|---|
| DATE | 04.11.2025 |
| DRAWN | JMK |
| CHECKED | MEP |
| SSG JOB # | S23109 |
| SHEET | SB0.3 |

| THREE COLUMN ASSEMBLY | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ASSEMBLY CRITERIA | | | | | | | PIER FOOTING CRITERIA (2) | | | | BASE PLATE | | | | ANCHOR RODS (4) | | | | |
| ASSEMBLY WIDTH, W | CHECK OPTION THIS APPLICATION | MAX. WEIGHT | ASSEMBLY HEIGHT, H | COLUMN SPACING, S | COLUMN SIZE | COLUMN SIZE, W/O FLAG | PIER DIAMETER, d | DEPTH, D | LONG. REINF. | TRANS. REINF.(1) | THICKNESS, t | WIDTH, B | LENGTH, L | WELD | QUANTITY & DIAMETER | GRADE | EDGE DISTANCE, X | GROUT HEIGHT | EMBED |
| 20'-0" | | 1,920 lbs. | ≤ 8'-0" | 8'-0" | W10x33 | W10x30 | 36"Ø | 8'-6" | 8 - #6 | #4 @ 4½" o.c. | 1¼" | 20" | 20" | 5/16 | (4) - 1½"Ø | F1554 - GR.36 | 2½" | 2" | 48" |
| | | 2,880 lbs. | ≤ 12'-0" | 8'-0" | W12x40 | W12x40 | 36"Ø | 10'-0" | 8 - #6 | #4 @ 4½" o.c. | 1¼" | 20" | 20" | 3/8 | (6) - 1½"Ø | F1554 - GR.55 | 2¼" | 2" | 48" |
| | | 3,840 lbs. | ≤ 16'-0" | 8'-0" | W14x61 | W14x53 | 42"Ø | 10'-6" | 8 - #8 | #4 @ 6" o.c. | 1⅜" | 24" | 24" | 3/8 | (6) - 1½"Ø | F1554 - GR.55 | 2½" | 2" | 64" |
| | | 4,800 lbs. | ≤ 20'-0" | 8'-0" | W16x67 | W16x67 | 48"Ø | 11'-0" | 14 - #8 | #4 @ 6" o.c. | 1¾" | 24" | 30" | 1/2 | (4) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| | | 5,760 lbs. | ≤ 24'-0" | 8'-0" | W18x86 | W18x76 | 48"Ø | 12'-0" | 14 - #8 | #4 @ 6" o.c. | 1¾" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| 24'-0" | X | 2,310 lbs. | ≤ 8'-0" | 8'-0" | W10x33 | W10x33 | 36"Ø | 9'-0" | 8 - #6 | #4 @ 4½" o.c. | 1¼" | 20" | 20" | 5/16 | (4) - 1½"Ø | F1554 - GR.55 | 2¼" | 2" | 48" |
| | | 3,460 lbs. | ≤ 12'-0" | 8'-0" | W14x48 | W14x43 | 36"Ø | 10'-6" | 8 - #8 | #4 @ 6" o.c. | 1½" | 24" | 24" | 7/16 | (6) - 1½"Ø | F1554 - GR.55 | 2¼" | 2" | 64" |
| | | 3,460 lbs. | ≤ 12'-0" | 8'-0" | N/A | W14x43 (3) | 36"Ø | 10'-6" | 8 - #8 | #4 @ 6" o.c. | 1½" | 20" | 20" | 7/16 | (4) - 1½"Ø | F1554 - GR.55 | 2½" | 2" | 64" |
| | | 4,610 lbs. | ≤ 16'-0" | 8'-0" | W14x61 | W14x61 | 48"Ø | 10'-9" | 12 - #8 | #4 @ 6" o.c. | 1½" | 24" | 24" | 7/16 | (6) - 1¼"Ø | F1554 - GR.55 | 2½" | 2" | 64" |
| | | 5,760 lbs. | ≤ 20'-0" | 8'-0" | W16x77 | W16x67 | 48"Ø | 12'-0" | 14 - #8 | #4 @ 6" o.c. | 1½" | 24" | 30" | 9/16 | (6) - 1¼"Ø | F1554 - GR.105 | 2½" | 2" | 64" |
| | | 6,920 lbs. | ≤ 24'-0" | 8'-0" | W18x97 | W18x86 | 48"Ø | 13'-3" | 14 - #8 | #4 @ 6" o.c. | 1¾" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 -GR.55 | 3" | 2" | 64" |
| | | 8,060 lbs. | ≤ 28'-0" | 8'-0" | W18x119 | W18x106 | 48"Ø | 14'-3" | 14 - #8 | #4 @ 6" o.c. | 2" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| 28'-0" | | 2,690 lbs. | ≤ 8'-0" | 10'-0" | W10x33 | W10x33 | 36"Ø | 9'-6" | 8 - #6 | #4 @ 4½" o.c. | 1¼" | 20" | 20" | 5/16 | (4) - 1½"Ø | F1554 - GR.55 | 2¼" | 2" | 48" |
| | | 4,040 lbs. | ≤ 12'-0" | 10'-0" | W14x48 | W14x43 | 48"Ø | 9'-9" | 8 - #8 | #4 @ 6" o.c. | 1½" | 24" | 24" | 7/16 | (6) - 1¼"Ø | F1554 - GR.55 | 2½" | 2" | 64" |
| | | 5,380 lbs. | ≤ 16'-0" | 10'-0" | W16x67 | W16x67 | 48"Ø | 11'-6" | 14 - #8 | #4 @ 6" o.c. | 1¾" | 24" | 30" | 1/2 | (4) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| | | 6,720 lbs. | ≤ 20'-0" | 10'-0" | W16x89 | W16x77 | 48"Ø | 12'-6" | 14 - #8 | #4 @ 6" o.c. | 2" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| | | 8,070 lbs. | ≤ 24'-0" | 10'-0" | W18x106 | W18x97 | 48"Ø | 13'-9" | 14 - #9 | #4 @ 6" o.c. | 2" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| | | 9,400 lbs. | ≤ 28'-0" | 10'-0" | W18x130 | W18x119 | 48"Ø | 15'-0" | 14 - #9 | #4 @ 6" o.c. | 2" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 - GR.105 | 3" | 2" | 64" |
| 32'-0" | | 3,080 lbs. | ≤ 8'-0" | 12'-0" | W10x33 | W10x33 | 36"Ø | 10'-0" | 8 - #6 | #4 @ 4½" o.c. | 1¼" | 20" | 20" | 3/8 | (6) - 1¼"Ø | F1554 - GR.55 | 2¼" | 2" | 48" |
| | | 4,610 lbs. | ≤ 12'-0" | 12'-0" | W14x61 | W14x48 | 48"Ø | 10'-3" | 8 - #8 | #4 @ 6" o.c. | 1½" | 24" | 24" | 3/4 | (6) - 1¼"Ø | F1554 - GR.55 | 2½" | 2" | 64" |
| | | 6,150 lbs. | ≤ 16'-0" | 12'-0" | W16x67 | W16x67 | 48"Ø | 11'-9" | 14 - #8 | #4 @ 6" o.c. | 1¾" | 24" | 30" | 1/2 | (4) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| | | 7,680 lbs. | ≤ 20'-0" | 12'-0" | W18x86 | W18x76 | 48"Ø | 13'-0" | 14 - #8 | #4 @ 6" o.c. | 1¾" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| | | 9,220 lbs. | ≤ 24'-0" | 12'-0" | W18x119 | W18x106 | 48"Ø | 14'-6" | 14 - #9 | #4 @ 6" o.c. | 2" | 24" | 30" | CJP | (6) - 1½"Ø | F1554 - GR.55 | 3" | 2" | 64" |
| | | 10,750 lbs. | ≤ 28'-0" | 12'-0" | W18x143 | W18x130 | 54"Ø | 15'-6" | 14 - #9 | #4 @ 6"o.c. | 2½" | 30" | 36" | CJP | (6) - 2"Ø | F1554 - GR.55 | 4" | 2½" | 64" |

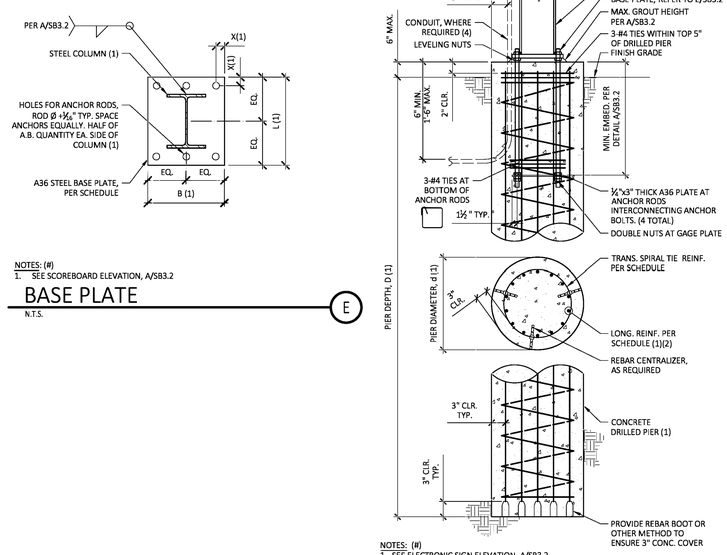
NOTES:
1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB3.2 FOR TIE OPTION, SEE D/SB3.2 FOR SPIRAL OPTION.
2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION
3. FLAG PER F/SB5.2 AND NETTING PER A/SB5.2 ARE NOT PERMITTED FOR THIS OPTION
4. F1554 FULLY THREADED ROD IS AN ACCEPTABLE ALTERNATE TO ANCHOR RODS




SECTION A-A
COLUMN ORIENTATION

ELEVATION

## THREE COLUMN SCOREBOARD INSTALLATION
N.T.S.
A



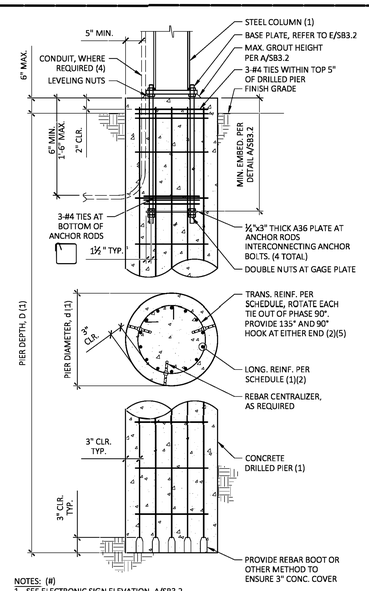

NOTES: (#)
1. SEE SCOREBOARD ELEVATION, A/SB3.2

## BASE PLATE
N.T.S.
E



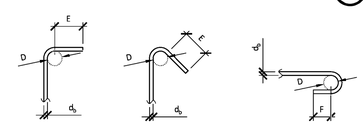

NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB3.2
2. SEE DETAILS B/SB3.2 FOR REINFORCEMENT TIE REQUIREMENTS
3. DO NOT SPLICE REINFORCEMENT.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

## CONCRETE DRILLED PIER
N.T.S.
D




NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB3.2
2. SEE DETAILS B/SB3.2 FOR REINFORCEMENT TIE REQUIREMENTS
3. DO NOT SPLICE REINFORCEMENT.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

## CONCRETE DRILLED PIER
N.T.S.
C




| Bar Size | Dimension of Standard Bends | | |
|---|---|---|---|
| | D | E | F [$6d_b$] [3" min.] |
| #4 | 2"Ø | 3" | 3" |

## TIE AND STIRRUP BENDS
N.T.S.
B

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DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

BUEHLER

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PARSONS
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED 04.11.2025
PC SEOR SEAL

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DIV. OF THE STATE ARCHITECT
APP: 04-124534 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 05/14/2025
DSA STAMP

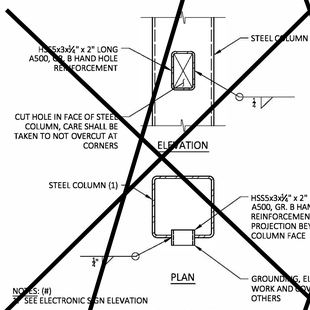
PRE-CHECK (PC) DOCUMENT
CODE: 2022

A separate project application for construction is required.

THREE COLUMN CAISSON - BOLTED

SHEET INFORMATION

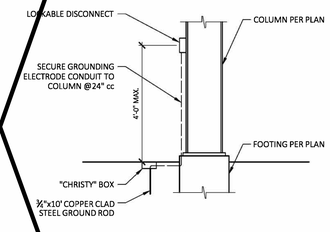
| | |
|---|---|
| DATE | 04.11.2025 |
| DRAWN | JMK |
| CHECKED | MEP |
| SSG JOB # | S23109 |
| SHEET | SB3.2 |




NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION

## CONDUIT HAND HOLE (H)

N.T.S.

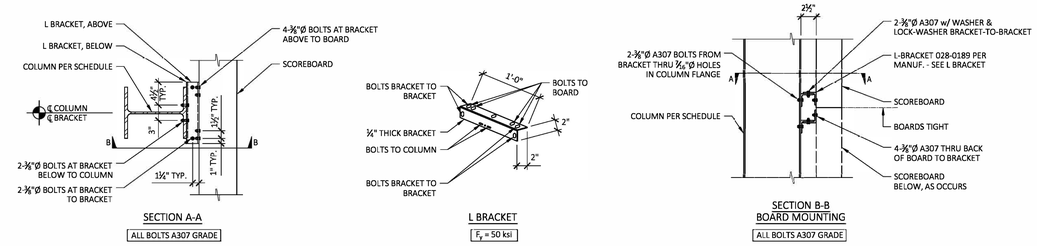



ALL DISPLAYS MUST BE GROUNDED WITH NO MORE THAN 10 OHMS GROUND RESISTANCE

NOTES:
1. ALTERNATE: IT IS PERMISSIBLE TO UTILIZE THE UFER GROUNDING METHOD. DETAILS FOR UFER GROUNDING SHALL BE INCLUDED AS PART OF THE SITE SPECIFIC SUBMITTAL.

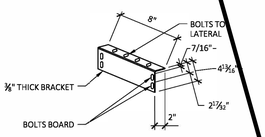
## GROUNDING DETAIL (B)

N.T.S.



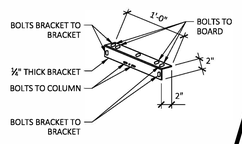

## SCOREBOARD PART ATTACHMENTS (A)

N.T.S.




L BRACKET - B

$F_y$ = 50 ksi

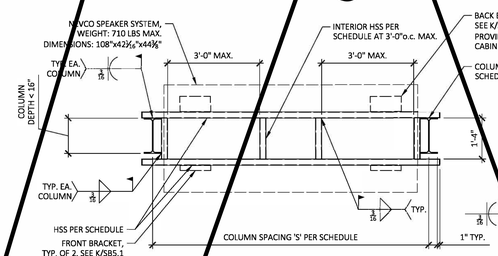



L BRACKET - A

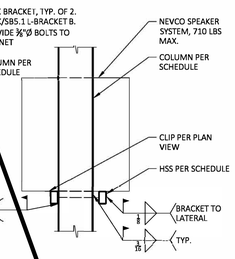
$F_y$ = 50 ksi

## L BRACKETS (K)

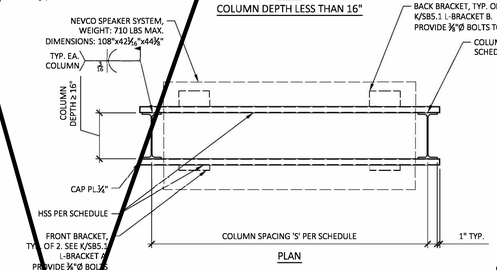
N.T.S.



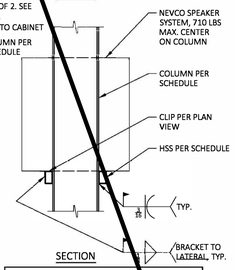

PLAN
COLUMN DEPTH LESS THAN 16"




SECTION




PLAN
COLUMN DEPTH GREATER THAN OR EQUAL TO 16"

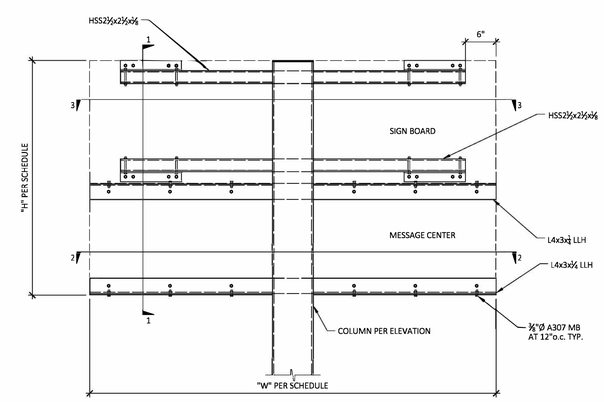



SECTION

| HSS SCHEDULE | |
|---|---|
| COLUMN SPACING, S | HSS SIZE |
| 10'-0" | HSS4x3x¼ LLV |
| 12'-0" | HSS4x3x⅜ LLV |
| 14'-0" | HSS4x3x½ LLV |

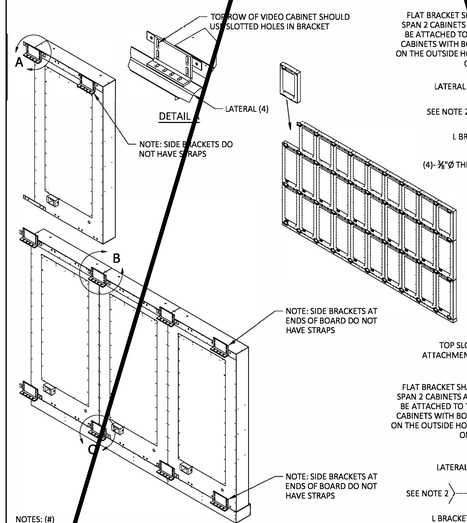
## SPEAKER ATTACHMENT (F)

N.T.S.

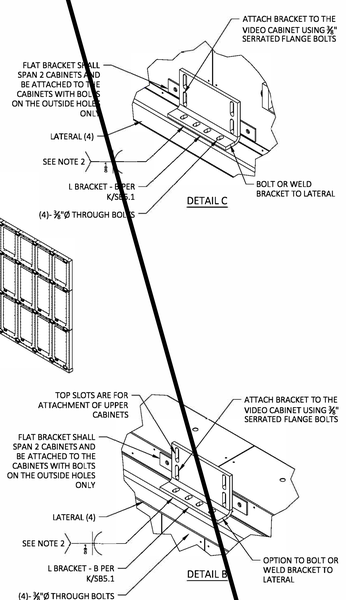



## MARQUEE CENTER INSTALLATION (D)

N.T.S.

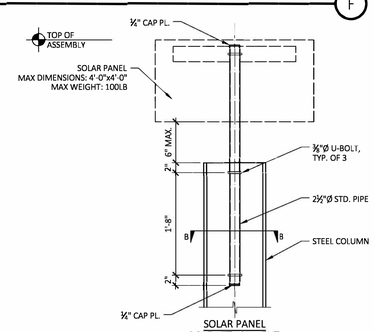



NOTES: (#)
1. SEE MANUFACTURER DRAWINGS FOR ASSEMBLY ORDER AND LIFTING INSTRUCTIONS
2. OPTION TO ATTACH CLIP TO LATERAL WITH WELD OR BOLTS
3. PROVIDE FILLET WELD WHERE LATERAL WIDTH EXCEEDS BRACKET WIDTH
4. TYPICAL VIDEO BOARD LATERAL IS HSS3X3X¼, SEE K/SB5.2 FOR ATTACHMENT TO COLUMN. SEE B/SB6.1 FOR INDOOR WALL ATTACHMENT.
5. MAX TRIBUTARY AREA TO L-BRACKET SHALL NOT EXCEED 20 S.F.

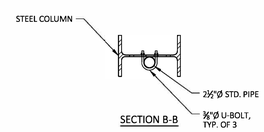



## VIDEO BOARD BRACKET ATTACHMENT (J)

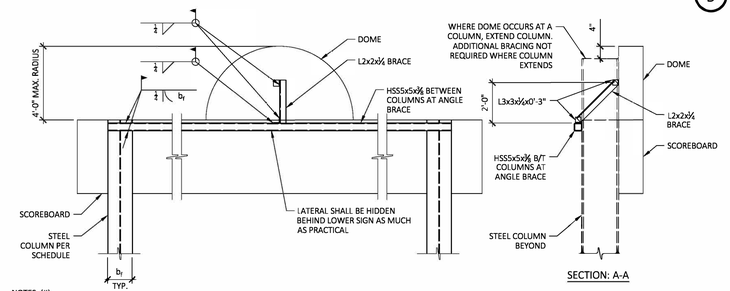
N.T.S.




SOLAR PANEL
POLE ATTACHMENT



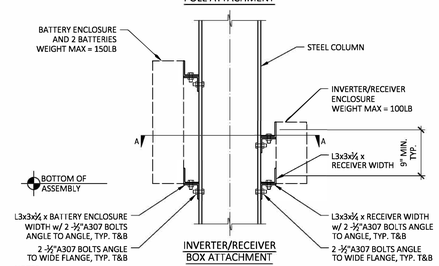

SECTION B-B



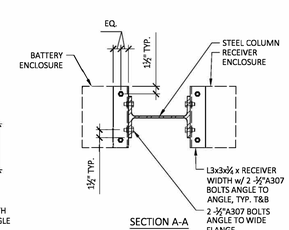

NOTES: (#)
1. SEE SCOREBOARD ELEVATION AND NOTES

## DOME BRACING (E)

N.T.S.




INVERTER/RECEIVER
BOX ATTACHMENT




SECTION A-A

NOTES:
1. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER DIMENSIONS SHALL FIT WITHIN THE PERMITTED EXTENT OF SCOREBOARD AS INDICATED IN THE SCOREBOARD ELEVATION AND SCHEDULE.
2. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER WEIGHT ALONG WITH ALL OTHER SCOREBOARD COMPONENTS SHALL NOT EXCEED THE WEIGHT INDICATED IN THE SCOREBOARD SCHEDULE.

## SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT (G)

N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

BUEHLER

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PARSONS
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 04.11.2025

PC SEOR SEAL

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nevco
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Phone: (618) 664-0380
www.nevco.com

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-124534 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 05/14/2025

DSA STAMP

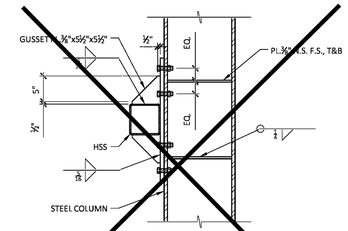
PRE-CHECK (PC) DOCUMENT
CODE: 2022

A separate project application for construction is required.

ATTACHMENT DETAILS

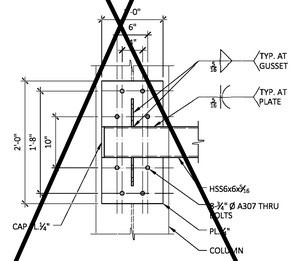
SHEET INFORMATION

| | |
|---|---|
| DATE | 04.11.2025 |
| DRAWN | JMK |
| CHECKED | MEP |
| SSG JOB # | S23109 |
| SHEET | SB5.1 |

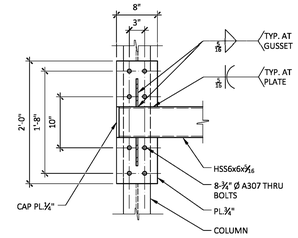



## NET MOUNT PLATE (E)

N.T.S.



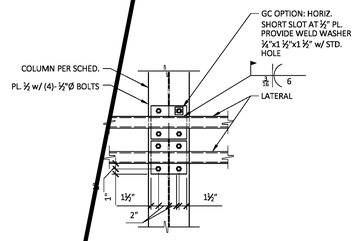

COLUMN WIDTH GREATER THAN OR EQUAL TO 9"



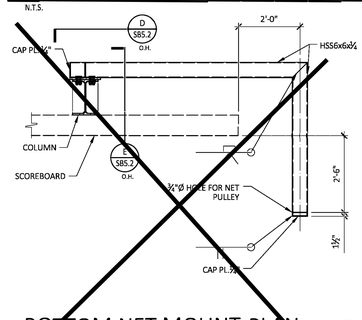

COLUMN WIDTH LESS THAN 9"

## NET MOUNT PLATE (D)

N.T.S.

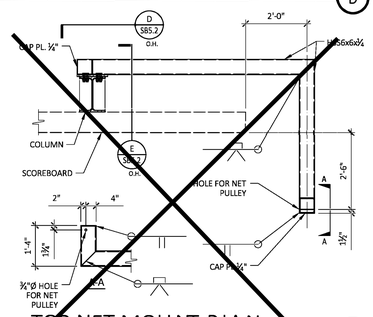



ELEVATION: OPTION C&D-BOLTED LATERAL



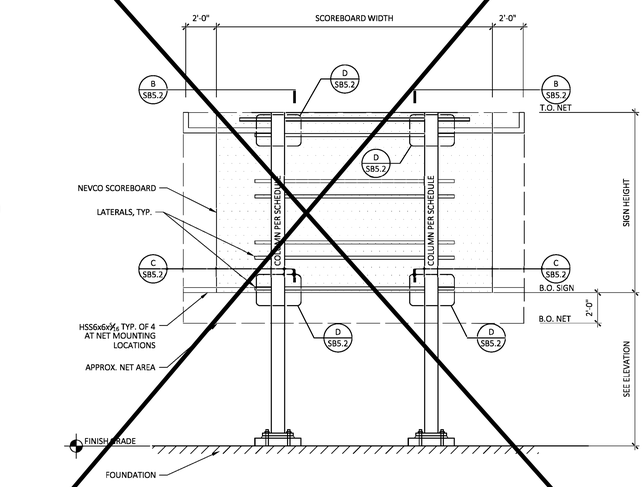

## BOTTOM NET MOUNT-PLAN (C)

N.T.S.




## TOP NET MOUNT-PLAN (B)

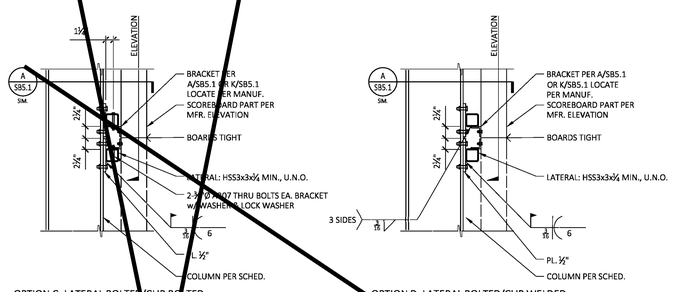
N.T.S.




NOTES:
1. ELEVATION SHOWN WITH TWO COLUMNS FOR GRAPHICAL PURPOSES. NET SUPPORT DETAILS APPLICABLE TO TWO, THREE, AND FOUR COLUMN ASSEMBLIES

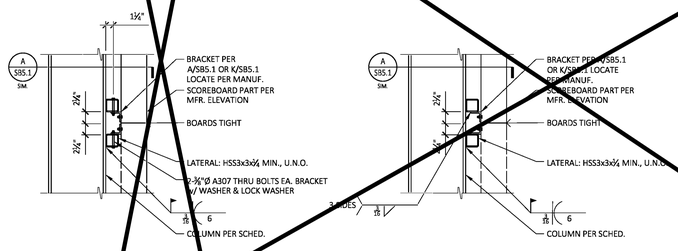
## SCOREBOARD NETTING SUPPORTS (A)

N.T.S.




OPTION C: LATERAL BOLTED/CLIP BOLTED

OPTION D: LATERAL BOLTED/CLIP WELDED

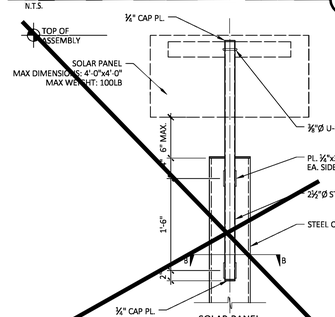



OPTION A: LATERAL WELDED/CLIP BOLTED

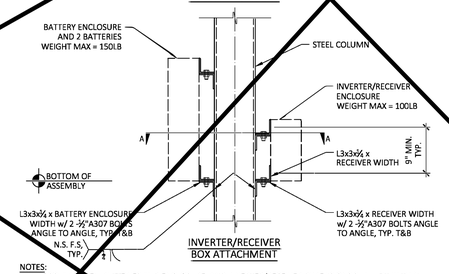
OPTION B: LATERAL WELDED/CLIP WELDED

## LATERAL/BOARD ATTACHMENT (K)

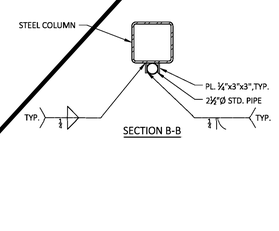
N.T.S.



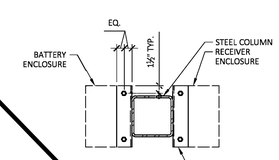

SOLAR PANEL POLE ATTACHMENT




INVERTER/RECEIVER BOX ATTACHMENT




SECTION B-B

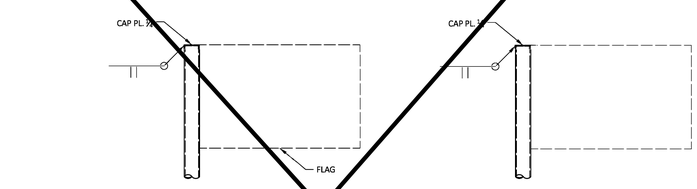


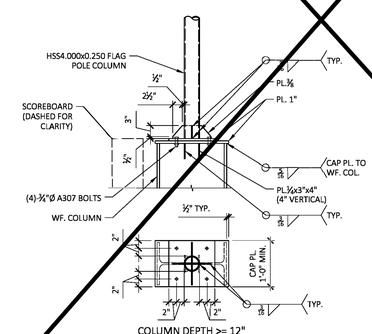

SECTION A-A

NOTES:
1. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER DIMENSIONS SHALL FIT WITHIN THE PERMITTED EXTENT OF SIGN AS INDICATED IN THE MARQUEE ELEVATION AND SCHEDULE.
2. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER WEIGHT ALONG WITH ALL OTHER SIGN COMPONENTS SHALL NOT EXCEED THE WEIGHT INDICATED IN THE MARQUEE SCHEDULE.

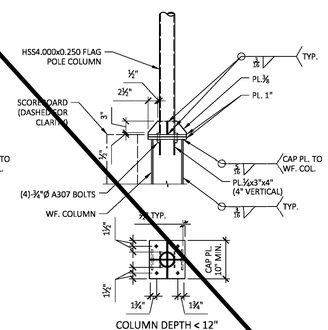
## SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT (H)

N.T.S .



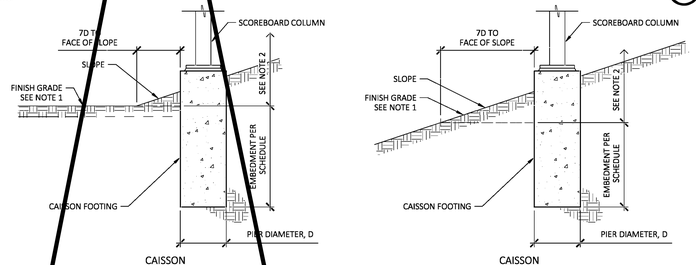

COLUMN DEPTH >= 12"




COLUMN DEPTH < 12"

## FLAG POLE COLUMN TO WF BEAM (F)

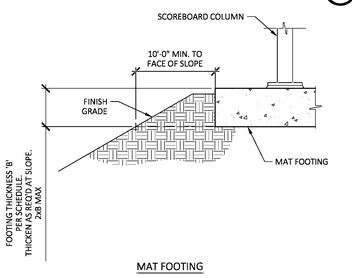
N.T.S.




CAISSON BOTTOM OF SLOPE

CAISSON MID-SLOPE

CAISSON TOP OF SLOPE



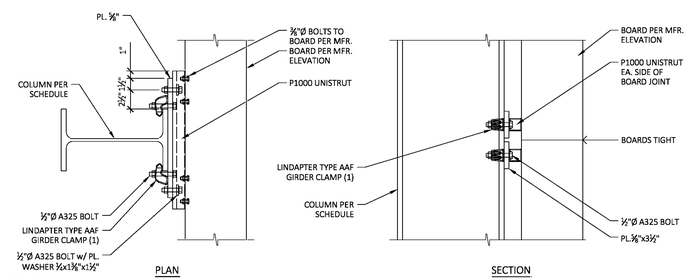

MAT FOOTING

NOTES:
1. REFERENCE FINISH GRADE FOR DETERMINATION OF MAXIMUM SCOREBOARD HEIGHT.
2. SEE TYPICAL SCOREBOARD INSTALLATION DETAIL FOR MAXIMUM ASSEMBLY HEIGHT AND CLEARANCE TO BOTTOM OF SCOREBOARD.

S:\2023\23109\03 PRODUCTION\03 DRAWINGS\S23109 - DET - SB5.2.DWG

## DISTANCE TO SLOPE (J)

N.T.S.




PLAN

SECTION

NOTES: (#)
1. LAAF050 CLAMP WITH ROCKING WASHER - INSTALL PER ICC ESR-3976

## ALTERNATE BOARD ATTACHMENT (G)

N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125644 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/15/2026

BUEHLER

REGISTERED PROFESSIONAL ENGINEER
MEL E. PARSONS
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED: 04.11.2025

PC BEORSFAL

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Phone: (618) 664-0360
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DIV. OF THE STATE ARCHITECT
APP: 04-125644 : PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐ CG ☐
DATE: 05/1 4/2025

DSA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022

A separate project application for construction is required.

# OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

SHEET INFORMATION

| | |
|---|---|
| DATE | 04.11.2025 |
| DRAWN | JMK |
| CHECKED | MEP |
| SSG JOB # | S23109 |
| SHEET | SB5.2 |