# Fire Station No. 80 - FIRE STATION NO. 80 - TRAINING CENTER, 6585 CHERRY AVENUE, FONTANA, CALIFORNIA Project

## BID NO.: DE-26-01-SP

Addendum No. 5

Information

09/25/2025

1. Revised "NOTICE INVITING SEALED BIDS FOR CONSTRUCTION" are hereby included and shall replace the previously released **VOLUME 1 SPECIFICATIONS FOR THE CONSTRUCTION OF FIRE STATION NO. 80 - TRAINING CENTER 6585 CHERRY AVENUE, FONTANA, CALIFORNIABID NO.: DE-26-01-SP** page 9. Changes are to include:
    a. The bid opening date has been extended to October 1st at 2:00pm.
        i. PUBLIC NOTICE IS HEREBY GIVEN that the City OF FONTANA, as City, invites sealed bids to be received only by submitting electronically at www.fontanapurchasing.org, for the above stated project and will receive such bids no later than the hour of **2:00 P.M. on the 1st day of October, 2025,** at which time or thereafter said bids will be electronically opened and available online. Bids received after this time will not be able to submit electronically.

2. Revised "Appendix I – SOLID WASTE DISPOSAL AND RECYCLING REPORT" are hereby to be included in the previously released **VOLUME 1 SPECIFICATIONS FOR THE CONSTRUCTION OF FIRE STATION NO. 80 - TRAINING CENTER 6585 CHERRY AVENUE, FONTANA, CALIFORNIABID NO.: DE-26-01-SP.**
    a. The "City of Fontana Construction and Demolition Recycling Program" brochure as attached.

**3.** "VOLUME 2 – ARCHITECT PROJECT MANUAL" is hereby included and shall follow the changes, omissions and/or additions to the previously released **VOLUME 2 – ARCHITECT PROJECT MANUAL AND DRAWINGS.**

**See attached.**

**1.**

# NOTICE INVITING SEALED BIDS

**FOR CONSTRUCTION OF**

**FIRE STATION NO. 80 - TRAINING CENTER 6585 CHERRY AVENUE, FONTANA, CALIFORNIA**

**BID NO.: DE-26-01-SP**

PUBLIC NOTICE IS HEREBY GIVEN that the **City OF FONTANA**, as **City**, invites sealed bids to be received only by submitting electronically at www.fontanapurchasing.org, for the above stated project and **will receive such bids no later than the hour of 2:00 P.M. on the 1st day of October, 2025, at which time or thereafter said bids will be electronically opened and available online. Bids received after this time will not be able to submit electronically.**

A non-mandatory pre-bid conference will be held at the **City of Fontana on September 9, 2025, at 10:00 a.m., in the DSO Conference Room 125**. Bidders are encouraged to attend.

The **City** reserves the right to reject any or all bids, to waive any irregularity, to accept any bid or portion thereof, and to take all bids under advisement for a period of ninety (90) calendar days.

The work of improvement consists of furnishing all materials, equipment, tools, labor, and incidentals as required by the Plans, Specifications and Contract Documents for the above stated project. The general items of work to be done hereunder consist of on-site and off-site improvements required for the construction of the Fire Station 80- Training Center Project, located at 6585 Cherry Avenue; and all project related improvements as indicated in the project plans and specifications.

Bid must be submitted electronically for the exact item(s) requested in the bid specifications. Copies of the plans, specifications, and contract documents are available **for free** from the City's Purchasing website **www.fontanapurchasing.org**.

Each Bid submitted electronically is required to be accompanied by the Proposal Documents; Proposal, Bidder's Information, Contractor's Licensing Statement, List of Subcontractors (enter online), References, Designator of Sureties, Bid Bond, Non-Collusion affidavit, Certificate of Non-Discrimination by Contractors, Proposal Bid Sheet (enter online), Addendum Acknowledgement, and all additional documentation required by the Instructions to Bidders. Bids must be submitted on the City's bid forms. Any questions pertaining to this project should be directed to **Sid Lambert at phone number (909) 350-7678 or email at slambert@fontana.org.**

Proposals must be accompanied by a proposal guarantee in the form of cash, cashier's check, a certified check or bid bond available to the **City** in the amount of at least ten percent (10%) of the total amount bid. Any proposal not accompanied by such a guarantee will not be considered. A payment bond and a performance bond, each in an

## 2. APPENDIX I – SOLID WASTE DISPOSAL AND RECYCLING REPORT

## Fontana Construction & Demolition Disposal Regulations

Per City Code [Sec. 24-15 (a)], self-hauling of refuse from a construction or demolition site is not permitted. Contractors/homeowners wishing to self-haul recyclable materials must own the collection container and vehicle that the recyclable materials are hauled in, and obtain a self-haul permit from the City.

## Residential C&D Projects

Temporary Containers (7-day rental) for construction & demolition or clean-up projects can only be ordered from the City's Franchised hauler, Burrtec Waste Industries. Containers should be entirely on residential property and should not extend into the public right-of-way. Call Code Compliance Department for permission if container will be on property for longer than two weeks. Residential properties that are part of a Homeowners Association (HOA) may have to obtain approval for placement of temporary containers from the HOA.

## Multi-Family, Commercial, and Industrial C&D Projects

Temporary Containers (7-day rental) and Permanent Containers for construction & demolition projects can be ordered from the City's Franchised hauler, Burrtec Waste Industries.

## Burrtec Construction and Demolition Processing Facilities

**To get started please call: (909) 822-9739**

**Burrtec Fontana Division**
9820 Cherry Ave. • Fontana, CA 92335

**West Valley MRF - (909) 889-0911**
13373 Napa Street • Fontana, CA 92335

**Agua Mansa MRF - (951) 786-0655**
1830 Agua Mansa Road • Riverside, CA 92509

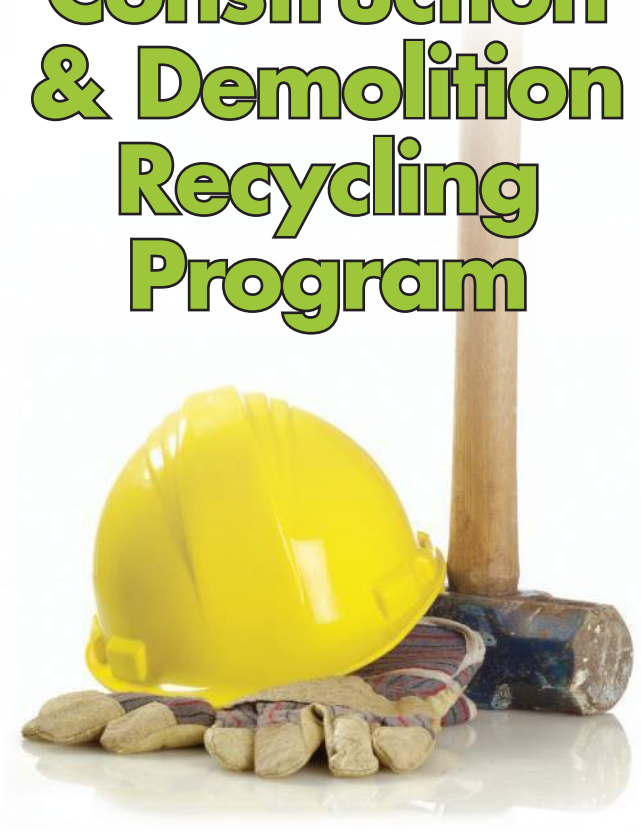
***Important Phone Numbers***

| | |
|---|---|
| Building & Safety | (909) 350-7640 |
| Code Compliance | (909) 854-8020 |
| Economic Development | (909) 350-6741 |
| Engineering | (909) 350-7610 |
| Planning | (909) 350-7640 |
| Police Department (Office Hours) | (909) 350-7740 |
| Police Department (Non-emergency 24-hour) | (909) 350-7700 |
| Public Works | (909) 350-6760 |
| Mid-Valley Landfill Info. | 386-8701 |
| CA Recycling Info. | 1-800-CLEAN-UP |
| CA Redemption Center Info | 1-800-732-9253 |
| Co. Household Haz. Waste | 1-800-645-9228 |
| Commercial Hazardous Waste Waste Exchange Program | |
| SB Co. Environmental Health | 884-4056 |
| Pest Control | |

BURRTEC
*"We'll Take Care Of It"*

**www.burrtec.com**

# City of Fontana Construction & Demolition Recycling Program



CITY OF FONTANA CALIFORNIA

## Why Recycle Construction and Demolition Debris?

Reuse and recycling of C&D materials is a key component of sustainable or green building construction. The efficient use of resources is a fundamental principal of green building construction. This means reducing, reusing and recycling most if not all material that remain after a construction or renovation project. Many of these materials can be reused or recycled, thus prolonging our supply of natural resources and potentially saving money in the process.

## How Do I Start?

There are many ways to recycle and reduce waste on your job site. The following are some basic recommendations:

***Plan Ahead*** **-** Prior to starting your project, contact Burrtec to find out what options will work best for your site. Planning ahead will assist in diverting as much material as possible and as cost effectively as possible.

***Source Separation*** **-** Provide one container on your site for one specific kind of material, such as wood, concrete, asphalt, cardboard, landscaping or metal.

***Mixed Recycling Containers*** **-** Providing one container for mixed recyclables is ideal for projects with space limitations or that generate a large amount of varied materials at once.

***Reuse or Donations*** **-** Depending on the characteristics of your project, you may have the opportunity to reuse or donate items.

## What is LEED and CALGreen?

Leadership in Energy and Environmental Design, LEED, is helping to deliver energy and water efficient, healthy, environmentally-friendly, cost saving buildings, homes and communities. Projects earn points to satisfy green building requirements. Within each of the LEED credit categories, projects must satisfy prerequisites and earn points. The number of points the project earns determines its level of LEED certification. For the purposes of Solid Waste and Recycling, these points are in the area of Materials & Resources credits which encourage using sustainable building materials and reducing waste. Other credit categories include, sustainable sites, water efficiency, energy and atmosphere, and indoor environmental quality.

CALGreen is the California statewide Green Building Code. It is composed of several parts. The basic CALGreen code, which is mandatory, must be adopted by all local jurisdictions prior to January 1, 2017. For the purposes of Solid Waste and Recycling, a project site must divert at least 65% of construction waste from the landfill.

## How Burrtec Will Help

Burrtec's C&D program assists in meeting new State regulations that require construction and demolition projects to divert 65% of C&D materials from local landfills. Burrtec can facilitate compliance, providing a minimum of 77% waste diversion guarantee on construction and demolition mixed waste disposal at our West Valley Material Recovery Facility. The program also helps to comply with local ordinance requirements, LEED certification and CalGreen building standards. Burrtec is a one stop solution for your C&D material; we can take care of it all or meet specific needs. Burrtec will partner with customers to develop on-site solutions, provide equipment, transport the material, process the material and report diversion and recycling data.

## Typical Construction and Demolition Material

- Wood (tree trimmings, construction/demo wood, palm, cabinets, furniture)
- Mixed C&D
- Inerts (concrete, brick, gravel)
- Asphalt based – composite roofing
- Metal
- Tires
- Cardboard
- Injection molded plastic
- Mattresses
- Gypsum wall board
- Carpet and pad

## Types of Containers


**1.5 - 3 yard temporary and permanent bins**


**10 - 40 yard debris roll-off boxes**

## 3. VOLUME 2 – ARCHITECT PROJECT MANUAL AND DRAWINGS

September 25, 2025

| | | |
|---|---|---|
| TO | : | All Bidders |
| FROM | : | PBK |
| PROJECT | : | Fontana Fire Station No. 80 |
| PROJECT # | : | W2100100AR |
| SUBJECT | : | Addendum 5 |

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

**PROJECT MANUAL**

1.1 SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

A. 2.5 VAPOR BARRIER

1. C. MANUFACTURERS

a. ADD ITEM: "6. ISI Building Products, www.isibp.com."

1.2 SECTION 04 73 00 – MANUFACTURED STONE MASONRY

A. 2.2 STONE VENEER

1. D. TRIM SHAPES

a. REVISE ITEM: "1. Wall Cap: 18" x 24" x 2.5" Flagstone."

b. REVISE ITEM: "2. Stone Post Cap: 20" x 20" x 3.5" Flagstone."

1.3 SECTION 07 19 00 – WATER REPELLENTS

A. 3.6 SCHEDULE

1. OMIT ITEM "A. Exterior concrete masonry site walls."

1.4 SECTION 32 13 13 – CONCRETE PAVING

A. 2.10 CONCRETE MIX

1. B. PROVIDE CONCRETE OF THE FOLLOWNG CHARACTERISTICS:

a. REVISE ITEM: "2. Sidewalks, curbs, gutters and utility slabs: Compressive Strength of 4,000 psi at 28 days."

1.5 SECTION 32 80 00 – IRRIGATION SYSTEM

A. 2.1 MATERIALS

1. N. SUBSURFACE DRIPLINE

a. REVISE ITEM: "1. Rain Bird XFSP-09-18 with factory installed, pressure-compensating, inline emitters welded to the inner circumference of the copper-colored polyethylene tubing at spacing specified by model number."

B. 3.2 IRRIGATION SYSTEM INSTALLATION

1. C. IRRIGATION PIPELINE INSTALLATION - GENERAL: EXECUTE TRENCH EXCAVATING AND BACKFILLING, INCLUDING THE DEPTH OF COVER OVER THE PIPELINE, IN ACCORDANCE WITH REQUIREMENTS OF SUBSECTION 3.2(B) AND SSPWC SECTION 306-1.2.13, WHICHEVER IS MORE STRINGENT.

a. REVISE ITEM: "8. Place all lines under paving in Schedule 40 Purple PVC sleeves. Oversize the sleeves sufficiently to house the pipe, fittings and the directed burial control wires, unless otherwise indicated."

1.6 SECTION 32 93 00 – LANDSCAPE PLANTING

A. 2.1 MATERIALS

1. F. HEADER BOARD AND MOW STRIP

a. REVISE ITEM: "1. Concrete Mow Strip: 6-inches square x 4-inches in depth, complete with tooled control joint 10-feet apart; at the beginning and end of curve, and at changes of direction; and where header abuts an existing or new structures and improvements, or as indicated on the Contract Drawings."

2. REVISE ITEM: "I. Root Barrier: Install root barrier in all tree planters where tree is within five 5-feet of paving. 18-inches depth, extending a minimum of 8'-0" on each side of the tree centerline."

B. 3.4 GRADING AND SITE PREPARATION

1. C. TOPSOIL PREPARATION AND CONDITIONING

a. REVISE ITEM: "1. Type and Thickness: Place approved Imported/Class A topsoil over the entire rough graded site, in accordance with Subsection 2.1(A), to a depth of 6-inches."

**DRAWINGS**

CIVIL

1.7 SHEET C1 GRADING, DRAINAGE, STORM DRAIN, AND UTILITY PLAN TITLE SHEET

A. ADD ABBEVIAITON: "'TP' TOP OF PILASTER."

1.8 SHEET C5.0 GRADING AND DRAINAGE PLAN

A. REPLACE: Sheet in its entirety with the attached C5.0. Revisions highlighted.

1.9 SHEET C5.1 GRADING AND DRAINAGE PLAN DETAIL SHEET

A. REPLACE: Sheet in its entirety with the attached C5.1. Revisions highlighted.

1.10 SHEET C6 UTILITY PLAN

A. REPLACE: Sheet in its entirety with the attached C6. Revisions highlighted.

ARCHITECTURAL

1.11 SHEET A1.1 SITE PLAN

A. REPLACE: Sheet in its entirety with the attached A1.1. Revisions highlighted.

1.12 SHEET A1.2 ENLARGED SITE PLANS & SITE DETAILS

A. REPLACE: Sheet in its entirety with the attached A1.2. Revisions highlighted.

1.13 SHEET A1.3 SITE DETAILS

A. ADD ANNOTATION: "DETAIL 21/A1.3, PROVIDE (4) #4 VERTICAL BARS WITH #3 TIES AT 12" O.C."

1.14 SHEET A1.4 TRASH ENCLOSURE & SITE DETAILS

A. REPLACE: Sheet in its entirety with the attached A1.4. Revisions highlighted.

1.15 SHEET A5.1 DOOR, WINDOW & FINISH SCHEDULES

A. REPLACE: Sheet in its entirety with the attached A5.1. Revisions highlighted.

1.16 SHEET A5.2 DOOR DETAILS

A. REPLACE: Sheet in its entirety with the attached A5.1. Revisions highlighted.

1.17 SHEET A8.4 SPECIALTY DETAILS

A. ADD NOTE: "DETAIL 2/A8.4, 5. ALL DIMENSIONED CLEARANCES SHOULD BE FROM TOILET FIXTURES TO FINISH FACE OF WALL."

1.18 SHEET A8.5 SIGNAGE DETAILS

A. REPLACE: Sheet in its entirety with the attached A8.5. Revisions highlighted.

STRUCTURAL

1.19 SHEET S0.3 WOOD FRAMING DETAILS

A. REPLACE: Sheet in its entirety with the attached S0.3. Revisions highlighted.

1.20 SHEET S1.1 FONDATION PLAN

A. REPLACE: Sheet in its entirety with the attached S1.1. Revisions highlighted.

1.21 SHEET S3.1 ROOF FRAMING PLAN

A. REPLACE: Sheet in its entirety with the attached S3.1. Revisions highlighted.

1.22 SHEET S4.2 WALL SECTIONS

A. REPLACE: Sheet in its entirety with the attached S4.2. Revisions highlighted.

ELECTRICAL

1.23 SHEET E0.1 GENERAL NOTES AND SYMBOL LIST

A. REVISE SYMBOL ANNOTATION: "SYMBOL LIST 'WAP', WIRELESS ACCESS POINT. TWO (2) CAT6 TO IDF."

1.24 SHEET E0.2 SINGLE LINE DIAGRAM

A. REVISE ANNOTATION ON SINGLE LINE DIAGRAM: "(5) 5"C. TO TRANSFORMER PER UTILITY REQUIREMENTS."

1.25 SHEET E0.3 PANEL SCHEDULES

A. REPLACE: Sheet in its entirety with the attached E0.3. Revisions highlighted.

1.26 SHEET E0.4 LIGHT FIXTURE SCHEDULES

A. REVISE LIGHTINGTING FIXTURE SCHEDULE: "TYPE 'T', VISION LIGHITNG #MLB-2-T3-24LC-3-4K-UNV-WM-*-PC120 OR APPROVED EQUAL."

1.27 SHEET E1.1 SITE PLAN

A. REVISE ANNOTATION: "TRANSFORMER, (5) 5"C. TO TRANSFORMER PER UTILITY REQUIREMENTS."

1.28 SHEET E2.2 POWER PLAN

A. REPLACE: Sheet in its entirety with the attached E2.2. Revisions highlighted.

1.29 SHEET E2.3 SIGNAL PLAN

A. REPLACE: Sheet in its entirety with the attached E2.3. Revisions highlighted.

1.30 SHEET E3.1 TRAINING TOWER LIGHITING PLANS

A. REPLACE: Sheet in its entirety with the attached E3.1. Revisions highlighted.

1.31 SHEET E3.2 TRAINING TOWER LIGHITING PLAN

A. REPLACE: Sheet in its entirety with the attached E3.2. Revisions highlighted.

1.32 SHEET E3.3 TRAINING TOWER LIGHITING PLAN

A. REPLACE: Sheet in its entirety with the attached E3.3. Revisions highlighted.

1.33 SHEET E3.4 TRAINING TOWER LIGHITING PLAN

A. REPLACE: Sheet in its entirety with the attached E3.4. Revisions highlighted.

LANDSCAPE

1.34 SHEET L1.1 IRRIGATION PLAN

A. REPLACE: Sheet in its entirety with the attached L1.1. Revisions highlighted.

1.35 SHEET L1.2 IRRIGATION DETAILS

A. REPLACE: Sheet in its entirety with the attached L1.2. Revisions highlighted.

1.36 SHEET L2.1 LANDSCAPE PLAN

A. REPLACE: Sheet in its entirety with the attached L2.1. Revisions highlighted.

1.37 SHEET L2.2 LANDSCAPE DETAILS

A. REPLACE: Sheet in its entirety with the attached L2.2. Revisions highlighted.

WHP TRAINING TOWER

1.38 SHEET 1 FIRST AND TOWER BASEMENT FLOOR PLANS

A. REVISE SHEET NAME: "FIRST FLOOR PLAN AND SECTION."

**MISCELLANEOUS**

STRUCTURAL CALCULATIONS

1.39 STRUCTURAL CALCULATIONS FOR FONTANA FIRE STATION NO. 80 PHASE 1: TRAINING CENTER
A. ADD TO STRUCTURAL CALCULATIONS: "SUPPLEMENTAL CALCS FOR RETAINING WALLS."

**END OF ADDENDUM 5**

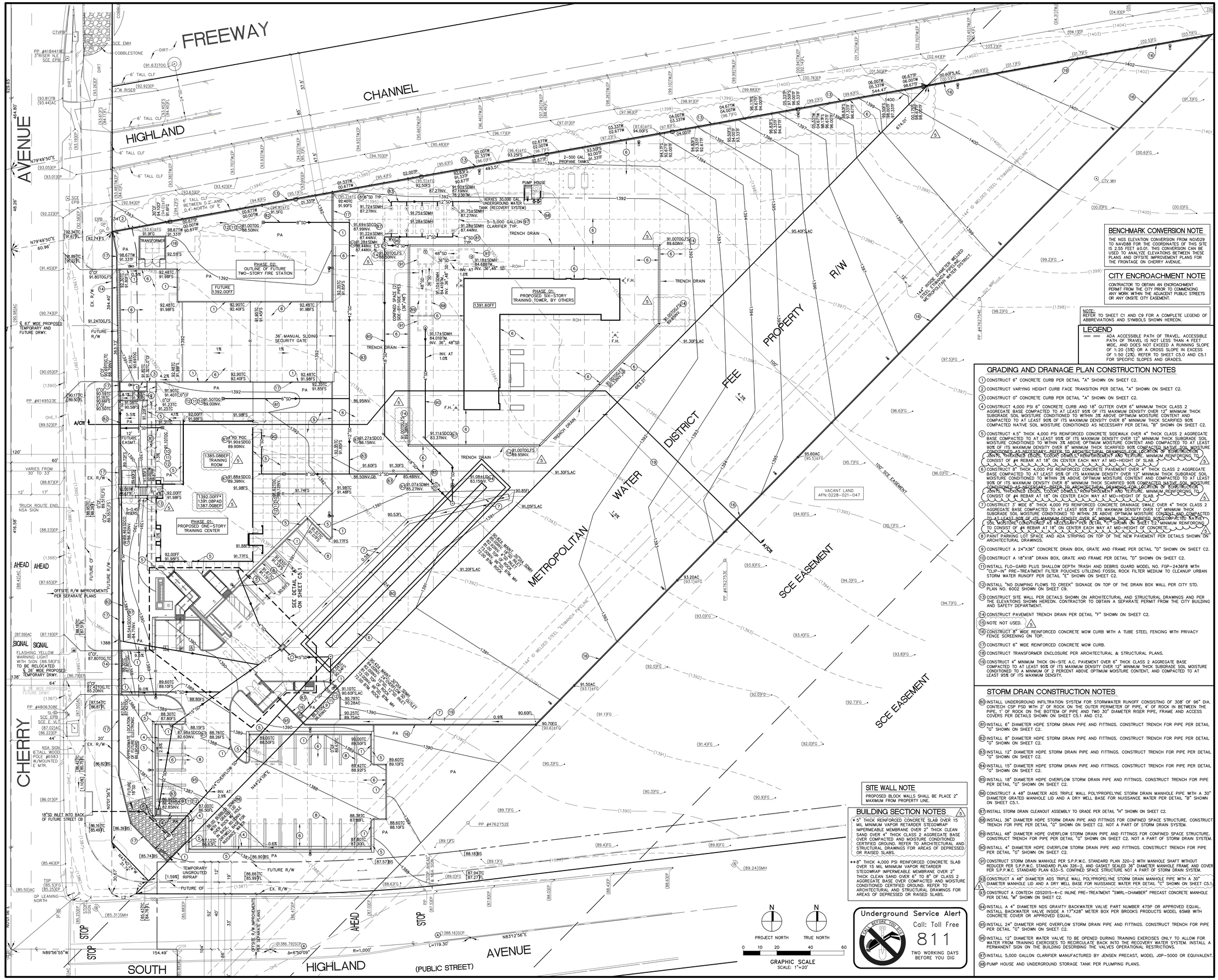
Submitted by,

JAIME MORENO
Senior Associate, Senior Project Manager

Attachments:

Drawings:
Civil Drawings: C5.0, C5.1, C6
Architectural Drawings: A1.1, A1.2, A1.4, A5.1, A5.2, A8.5
Structural Drawings: S0.3, S1.1, S3.1, S4.2
Electrical Drawings: E0.3, E2.2, E2.3, E3.1, E3.2, E3.3, E3.4
Landscape Drawings: L1.1, L1.2, L2.1, L2.2

Miscellaneous:
Structural Calculations for Fontana Fire Station No. 80 Phase 1: Training Center (SUPPLEMENTAL CALCS FOR RETAINING WALLS)




## BENCHMARK CONVERSION NOTE

THE NGS ELEVATION CONVERSION FROM NGVD29 TO NAVD88 FOR THE COORDINATES OF THIS SITE IS 2.55 FEET ±0.01. THIS CONVERSION CAN BE USED TO ANALYZE ELEVATIONS BETWEEN THESE PLANS AND OFFSITE IMPROVEMENT PLANS FOR THE FRONTAGE ON CHERRY AVENUE.

## CITY ENCROACHMENT NOTE

CONTRACTOR TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY PRIOR TO COMMENCING ANY WORK WITHIN THE ADJACENT PUBLIC STREETS OR ANY ONSITE CITY EASEMENT.

NOTE:
REFER TO SHEET C1 AND C9 FOR A COMPLETE LEGEND OF ABBREVIATIONS AND SYMBOLS SHOWN HEREON.

## LEGEND

ADA ACCESSIBLE PATH OF TRAVEL. ACCESSIBLE PATH OF TRAVEL IS NOT LESS THAN 4 FEET WIDE, AND DOES NOT EXCEED A RUNNING SLOPE OF 1:20 (5%) OR A CROSS SLOPE IN EXCESS OF 1:50 (2%). REFER TO SHEET C5.0 AND C5.1 FOR SPECIFIC SLOPES AND GRADES.

## GRADING AND DRAINAGE PLAN CONSTRUCTION NOTES

1. CONSTRUCT 6" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
2. CONSTRUCT VARYING HEIGHT CURB FACE TRANSITION PER DETAIL "A" SHOWN ON SHEET C2.
3. CONSTRUCT 0" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
4. CONSTRUCT 4,000 PSI 6" CONCRETE CURB AND 18" GUTTER OVER 6" MINIMUM THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "B" SHOWN ON SHEET C2.
5. CONSTRUCT 4.5" THICK 4,000 PSI REINFORCED CONCRETE SIDEWALK OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "B" SHOWN ON SHEET C2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR/ DOWELS, REINFORCEMENT AND TEXTURE. MINIMUM REINFORCING TO CONSIST OF #4 REBAR AT 18" ON CENTER EACH WAY AT MID-HEIGHT OF SLAB.
6. CONSTRUCT 8" THICK 4,000 PSI REINFORCED CONCRETE PAVEMENT OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "B" SHOWN ON SHEET C2. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR/ DOWELS, REINFORCEMENT AND TEXTURE. MINIMUM REINFORCING TO CONSIST OF #4 REBAR AT 18" ON CENTER EACH WAY AT MID-HEIGHT OF SLAB.
7. CONSTRUCT 3' WIDE 8" THICK 4,000 PSI REINFORCED CONCRETE DRAINAGE SWALE OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90%COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "C" SHOWN ON SHEET C2. MINIMUM REINFORCING TO CONSIST OF #4 REBAR AT 18" ON CENTER EACH WAY AT MID-HEIGHT OF CONCRETE.
8. PAINT PARKING LOT SPACE AND ADA STRIPING ON TOP OF THE NEW PAVEMENT PER DETAILS SHOWN ON ARCHITECTURAL DRAWINGS.
9. CONSTRUCT A 24"X36" CONCRETE DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
10. CONSTRUCT A 18"X18" DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
11. INSTALL FLO-GARD PLUS SHALLOW DEPTH TRASH AND DEBRIS GUARD MODEL NO. FGP-2436FB WITH "CLIP-IN" PRE-TREATMENT FILTER POUCHES UTILIZING FOSSIL ROCK FILTER MEDIUM TO CLEANUP URBAN STORM WATER RUNOFF PER DETAIL "E" SHOWN ON SHEET C2.
12. INSTALL "NO DUMPING FLOWS TO CREEK" SIGNAGE ON TOP OF THE DRAIN BOX WALL PER CITY STD. PLAN NO. 6002 SHOWN ON SHEET C9.
13. CONSTRUCT SITE WALL PER DETAILS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PER THE ELEVATIONS SHOWN HEREON. CONTRACTOR TO OBTAIN A SEPARATE PERMIT FROM THE CITY BUILDING AND SAFETY DEPARTMENT.
14. CONSTRUCT PAVEMENT TRENCH DRAIN PER DETAIL "F" SHOWN ON SHEET C2.
15. NOTE NOT USED.
16. CONSTRUCT 8" WIDE REINFORCED CONCRETE MOW CURB WITH A TUBE STEEL FENCING WITH PRIVACY FENCE SCREENING ON TOP.
17. CONSTRUCT 6" WIDE REINFORCED CONCRETE MOW CURB.
18. CONSTRUCT TRANSFORMER ENCLOSURE PER ARCHITECTURAL & STRUCTURAL PLANS.
19. CONSTRUCT 4" MINIMUM THICK ON-SITE A.C. PAVEMENT OVER 6" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO A MINIMUM OF 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY.

## STORM DRAIN CONSTRUCTION NOTES

80. INSTALL UNDERGROUND INFILTRATION SYSTEM FOR STORMWATER RUNOFF CONSISTING OF 308' OF 96" DIA. CONTECH CSP PSD WITH 2' OF ROCK ON THE OUTER PERIMETER OF PIPE, 4' OF ROCK IN BETWEEN THE PIPE, 1' OF ROCK ON THE BOTTEM OF PIPE AND TWO 30" DIAMETER RISER PIPE, FRAME AND ACCESS COVERS PER DETAILS SHOWN ON SHEET C5.1 AND C12.
81. INSTALL 6" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
82. INSTALL 8" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
83. INSTALL 12" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
84. INSTALL 15" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
85. INSTALL 18" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
86. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER GRATED MANHOLE LID AND A DRY WELL BASE FOR NUISSANCE WATER PER DETAIL "B" SHOWN ON SHEET C5.1.
87. INSTALL STORM DRAIN CLEANOUT ASSEMBLY TO GRADE PER DETAIL "H" SHOWN ON SHEET C2.
88. INSTALL 36" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
89. INSTALL 48" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
90. INSTALL 4" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
91. CONSTRUCT STORM DRAIN MANHOLE PER S.P.W.C. STANDARD PLAN 320-2 WITH MANHOLE SHAFT WITHOUT REDUCER PER S.P.P.W.C. STANDARD PLAN 326-2, AND GASKET SEALED 36" DIAMETER MANHOLE FRAME AND COVER PER S.P.P.W.C. STANDARD PLAN 633-5. CONFINED SPACE STRUCTURE NOT A PART OF STORM DRAIN SYSTEM.
92. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER MANHOLE LID AND A DRY WELL BASE FOR NUISSANCE WATER PER DETAIL "C" SHOWN ON SHEET C5.1.
93. CONSTRUCT A CONTECH CDS2015-4-C INLINE PRE-TREATMENT "SWIRL-CHAMBER" PRECAST CONCRETE MANHOLE PER DETAIL "M" SHOWN ON SHEET C2.
94. INSTALL A 4" DIAMETER NDS GRAVITY BACKWATER VALVE PART NUMBER 475P OR APPROVED EQUAL. INSTALL BACKWATER VALVE INSIDE A 17"X28" METER BOX PER BROOKS PRODUCTS MODEL 65MB WITH CONCRETE COVER OR APPROVED EQUAL.
95. INSTALL 24" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
96. INSTALL 12" DIAMETER WATER VALVE TO BE OPENED DURING TRAINING EXERCISES ONLY TO ALLOW FOR WATER FROM TRAINING EXERCISES TO RECIRCULATE BACK INTO THE RECOVERY WATER SYSTEM. INSTALL A PERMANENT SIGN ON THE BUILDING DESCRIBING THE VALVES OPERATIONAL RESTRICTIONS.
97. INSTALL 5,000 GALLON CLARIFIER MANUFACTURED BY JENSEN PRECAST, MODEL JOP-5000 OR EQUIVALENT.
98. PUMP HOUSE AND UNDERGROUND STORAGE TANK PER PLUMPING PLANS.

## SITE WALL NOTE

PROPOSED BLOCK WALLS SHALL BE PLACE 2" MAXIMUM FROM PROPERTY LINE.

## BUILDING SECTION NOTES

- 5" THICK REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 4" THICK CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.
- **8" THICK 4,000 PSI REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" TO 8" OF CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT — KELLEY NEEDHAM, C-19064, Exp 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — MARK S. LAMOREUX, No. 38382, CIVIL — STATE OF CALIFORNIA


CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
MARK S. LAMOREUX (R.C.E. 38382) 08-18-25 DATE


| NO | DATE | BY | DESCRIPTION |
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| A | | | REVISIONS |

DRAWN: JGA | CHECKED: MSL
DATE: 07/01/2025 | SCALE: AS SHOWN
PROJECT NUMBER: W21001 00AR

GRADING AND DRAINAGE PLAN

DRAWING NUMBER: C5.0

JN 20008 - 20008 C5.0.dgn- C5.1.dgn

BID SET_ADDENDUM 5

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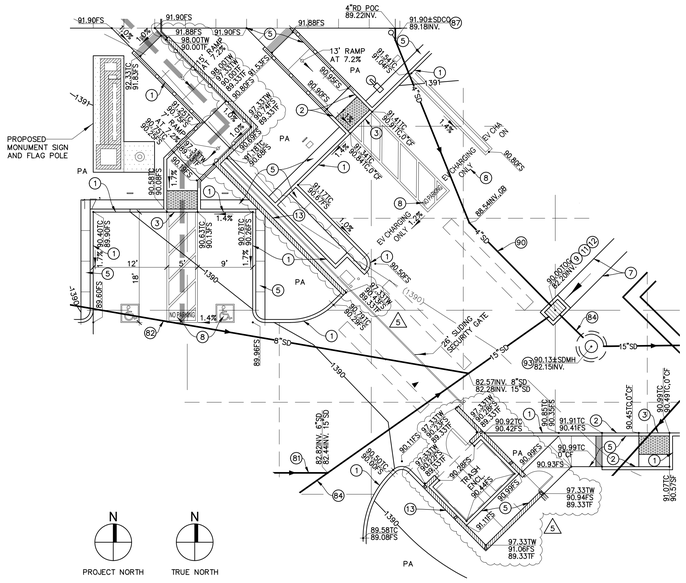
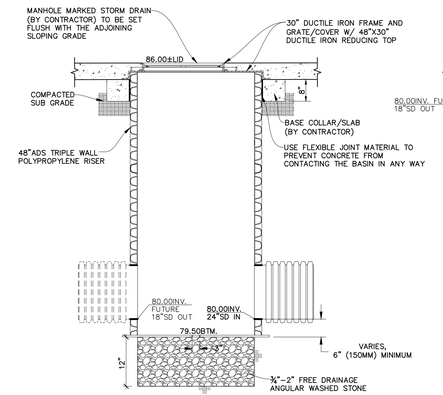
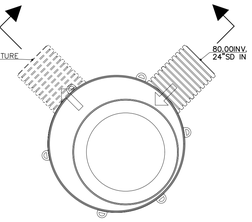
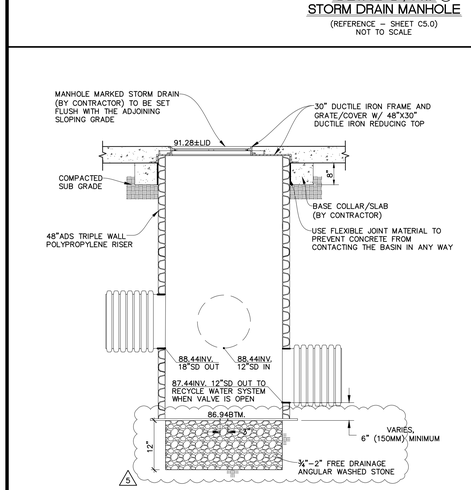


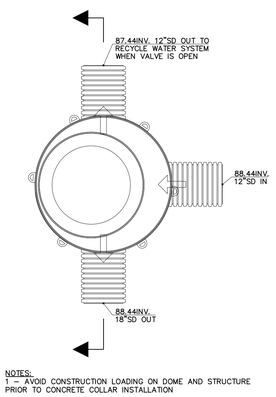




NOTES:
1 – AVOID CONSTRUCTION LOADING ON DOME AND STRUCTURE PRIOR TO CONCRETE COLLAR INSTALLATION

## DETAIL "B"/C5.1 (86)
## STORM DRAIN MANHOLE
(REFERENCE – SHEET C5.0)
NOT TO SCALE



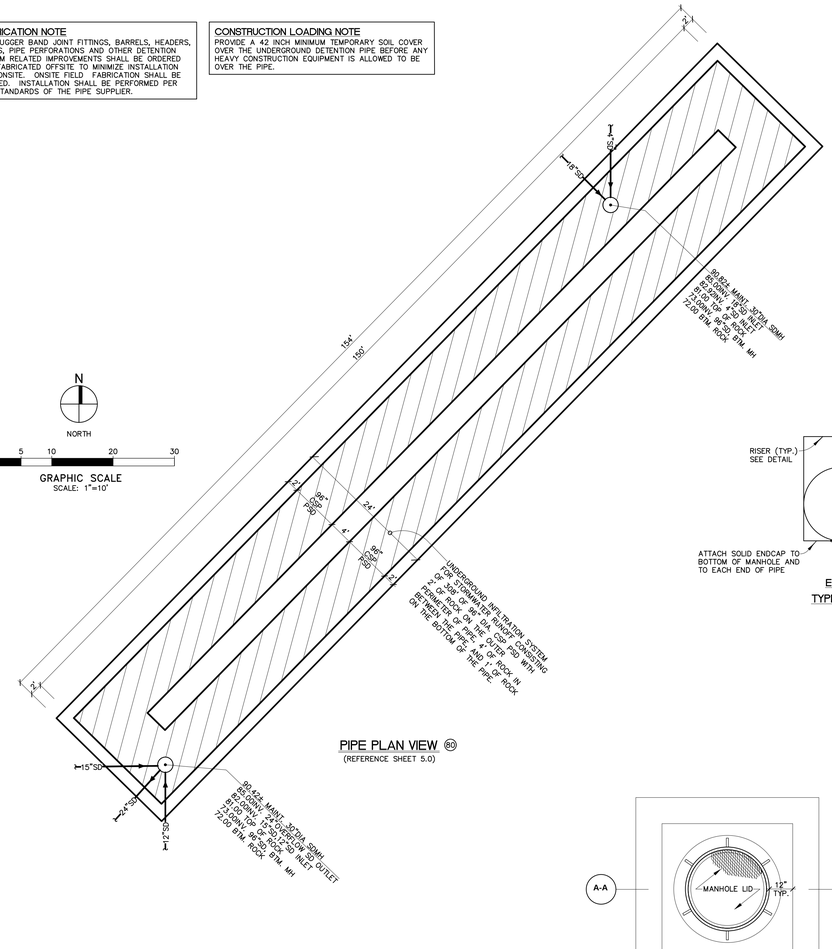




NOTES:
1 – AVOID CONSTRUCTION LOADING ON DOME AND STRUCTURE PRIOR TO CONCRETE COLLAR INSTALLATION

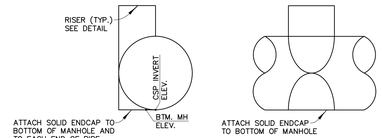
## DETAIL "C"/C5.1 (92)
## STORM DRAIN MANHOLE
(REFERENCE – SHEET C5.0)
NOT TO SCALE

**FABRICATION NOTE**
ALL HUGGER BAND JOINT FITTINGS, BARRELS, HEADERS, RISERS, PIPE PERFORATIONS AND OTHER DETENTION SYSTEM RELATED IMPROVEMENTS SHALL BE ORDERED AND FABRICATED OFFSITE TO MINIMIZE INSTALLATION TIME ONSITE. ONSITE FIELD FABRICATION SHALL BE AVOIDED. INSTALLATION SHALL BE PERFORMED PER THE STANDARDS OF THE PIPE SUPPLIER.

**CONSTRUCTION LOADING NOTE**
PROVIDE A 42 INCH MINIMUM TEMPORARY SOIL COVER OVER THE UNDERGROUND DETENTION PIPE BEFORE ANY HEAVY CONSTRUCTION EQUIPMENT IS ALLOWED TO BE OVER THE PIPE.




## PIPE PLAN VIEW (80)
(REFERENCE SHEET 5.0)




## TYPICAL RISER DETAIL
NOT TO SCALE

**BENCHMARK CONVERSION NOTE**
THE NGS ELEVATION CONVERSION FROM NGVD29 TO NAVD88 FOR THE COORDINATES OF THIS SITE IS 2.55 FEET ±0.01. THIS CONVERSION CAN BE USED TO ANALYZE ELEVATIONS BETWEEN THESE PLANS AND OFFSITE IMPROVEMENT PLANS FOR THE FRONTAGE ON CHERRY AVENUE.

**CITY ENCROACHMENT NOTE**
CONTRACTOR TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY PRIOR TO COMMENCING ANY WORK WITHIN THE ADJACENT PUBLIC STREETS OR ANY ONSITE CITY EASEMENT.

NOTE:
REFER TO SHEET C1 AND C9 FOR A COMPLETE LEGEND OF ABBREVIATIONS AND SYMBOLS SHOWN HEREON.

**LEGEND**
ADA ACCESSIBLE PATH OF TRAVEL. ACCESSIBLE PATH OF TRAVEL IS NOT LESS THAN 4 FEET WIDE, AND DOES NOT EXCEED A RUNNING SLOPE OF 1:20 (5%) OR A CROSS SLOPE IN EXCESS OF 1:50 (2%). REFER TO SHEET C5.0 AND C5.1 FOR SPECIFIC SLOPES AND GRADES.

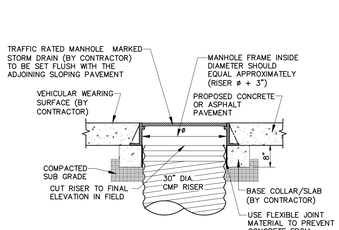
## GRADING AND DRAINAGE PLAN CONSTRUCTION NOTES

1. CONSTRUCT 6" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
2. CONSTRUCT VARYING HEIGHT CURB FACE TRANSITION PER DETAIL "A" SHOWN ON SHEET C2.
3. CONSTRUCT 0" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
4. CONSTRUCT 4,000 PSI 6" CONCRETE CURB AND 18" GUTTER OVER 6" MINIMUM THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "B" SHOWN ON SHEET C2.
5. CONSTRUCT 4.5" THICK 4,000 PSI REINFORCED CONCRETE SIDEWALK OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE. MINIMUM REINFORCING TO CONSIST OF #4 REBAR AT 18" ON CENTER EACH WAY AT MID–HEIGHT OF SLAB.
6. CONSTRUCT 8" THICK 4,000 PSI REINFORCED CONCRETE PAVEMENT OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE. MINIMUM REINFORCING TO CONSIST OF #4 REBAR AT 18" ON CENTER EACH WAY AT MID–HEIGHT OF SLAB.
7. CONSTRUCT 3' WIDE 8" THICK 4,000 PSI REINFORCED CONCRETE DRAINAGE SWALE OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "C" SHOWN ON SHEET C2. MINIMUM REINFORCING TO CONSIST OF #4 REBAR AT 18" ON CENTER EACH WAY AT MID–HEIGHT OF CONCRETE.
8. PAINT PARKING LOT SPACE AND ADA STRIPING ON TOP OF THE NEW PAVEMENT PER DETAILS SHOWN ON ARCHITECTURAL DRAWINGS.
9. CONSTRUCT A 24"X36" CONCRETE DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
10. CONSTRUCT A 18"X18" DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
11. INSTALL FLO–GARD PLUS SHALLOW DEPTH TRASH AND DEBRIS GUARD MODEL NO. FGP–2436FB WITH "CLIP–IN" PRE–TREATMENT FILTER POUCHES UTILIZING FOSSIL ROCK FILTER MEDIUM TO CLEANUP URBAN STORM WATER RUNOFF PER DETAIL "E" SHOWN ON SHEET C2.
12. INSTALL "NO DUMPING FLOWS TO CREEK" SIGNAGE ON TOP OF THE DRAIN BOX WALL PER CITY STD. PLAN NO. 6002 SHOWN ON SHEET C9.
13. CONSTRUCT SITE WALL PER DETAILS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PER THE ELEVATIONS SHOWN HEREON. CONTRACTOR TO OBTAIN A SEPARATE PERMIT FROM THE CITY BUILDING AND SAFETY DEPARTMENT.
14. CONSTRUCT PAVEMENT TRENCH DRAIN PER DETAIL "F" SHOWN ON SHEET C2.
15. NOTE NOT USED. (1)
16. CONSTRUCT 8" WIDE REINFORCED CONCRETE MOW CURB WITH A TUBE STEEL FENCING WITH PRIVACY FENCE SCREENING ON TOP.
17. CONSTRUCT 6" WIDE REINFORCED CONCRETE MOW CURB.
18. CONSTRUCT TRANSFORMER ENCLOSURE PER ARCHITECTURAL & STRUCTURAL PLANS.
19. CONSTRUCT 4" MINIMUM THICK ON–SITE A.C. PAVEMENT OVER 6" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO A MINIMUM OF 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY.

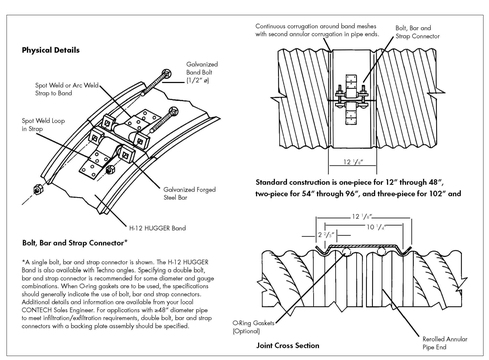



NOTES:
1. THE FLEXIBLE JOINT MATERIAL (RECYCLED VINYL OR EQ.) TO BE STIFF ENOUGH SO THAT THE CONCRETE CAN NEVER ENGAGE WITH THE RISER CORRUGATIONS.

## MANHOLE CAP DETAIL
NOT TO SCALE




## SECTION A-A
NOT TO SCALE




"A single bolt, bar and strap connector is shown. The H-12 HUGGER Band is also available with techno angles. Specifying a double bolt, bar and strap connector is recommended for some diameter and gauge combinations. When O-ring gaskets are to be used, the specifications should generally indicate the use of bolt, bar and strap connectors. Additional details and information are available from your local CONTECH Sales Engineer. For applications with ø48" diameter pipe to meet infiltration/exfiltration requirements, double bolt, bar and strap connectors with a backing plate assembly should be specified.

**Standard construction is one-piece for 12" through 48", two-piece for 54" through 96", and three-piece for 102" and**

## CONTECH HUGGER BAND DETAIL

## CONTECH PIPE GENERAL NOTES

1. ALL RISERS AND STUBS ARE 2–2/3"X1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.

CONTECH FOUNDATION BEDDING PREPARATION NOTE
PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSTABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED BY CONTRACTOR. ONCE THE FOUNDATION PREPARATION IS COMPLETE, A MINIMUM OF 4 INCHES OF A WELL–GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

CONTECH BACKFILL NOTE
WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (18") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE DETENTION AND/OR TREATMENT SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON THE PIPE.

CONTECH SPECIFICATION FOR CORRUGATED STEEL PIPE–ALUMINIZED TYPE 2 STEEL NOTES

1. SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.
2. MATERIAL
THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.
3. PIPE
THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.
ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.
4. HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA).
5. INSTALLATION
1 – AVOID CONSTRUCTION LOADING ON DOME AND STRUCTURE PRIOR TO CONCRETE COLLAR INSTALLATION
IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDE LINES FOR SAFE PRACTICES.

**SITE WALL NOTE**
PROPOSED BLOCK WALLS SHALL BE PLACE 2' MAXIMUM FROM PROPERTY LINE.

**BUILDING SECTION NOTES** (5)
* 5" THICK REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 4" THICK CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.
** 8" THICK 4,000 PSI REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" TO 8" OF CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.

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## STORM DRAIN CONSTRUCTION NOTES

80. INSTALL UNDERGROUND INFILTRATION SYSTEM FOR STORMWATER RUNOFF CONSISTING OF 308' OF 96" DIA. CONTECH CSP PSD WITH 2' OF ROCK ON THE OUTER PERIMETER OF PIPE, 4' OF ROCK IN BETWEEN THE PIPE, 1' OF ROCK ON THE BOTTEM OF PIPE AND TWO 30" DIAMETER RISER PIPE, FRAME AND ACCESS COVERS PER DETAILS SHOWN ON SHEET C5.1 AND C12.
81. INSTALL 6" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
82. INSTALL 8" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
83. INSTALL 12" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
84. INSTALL 15" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
85. INSTALL 18" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
86. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER GRATED MANHOLE LID AND A DRY WELL BASE FOR NUISSANCE WATER PER DETAIL "B" SHOWN ON SHEET C5.1.
87. INSTALL STORM DRAIN CLEANOUT ASSEMBLY TO GRADE PER DETAIL "H" SHOWN ON SHEET C2.
88. INSTALL 36" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
89. INSTALL 48" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
90. INSTALL 4" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
91. CONSTRUCT STORM DRAIN MANHOLE PER S.P.P.W.C. STANDARD PLAN 320–2 WITH MANHOLE SHAFT WITHOUT REDUCER PER S.P.P.W.C. STANDARD PLAN 326–2, AND GASKET SEALED 36" DIAMETER MANHOLE FRAME AND COVER PER S.P.P.W.C. STANDARD PLAN 633–5. CONFINED SPACE STRUCTURE NOT A PART OF STORM DRAIN SYSTEM.
92. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER MANHOLE LID AND A DRY WELL BASE FOR NUISSANCE WATER PER DETAIL "C" SHOWN ON SHEET C5.1. (3)
93. CONSTRUCT A CONTECH CDS2015–4–C INLINE PRE–TREATMENT "SWIRL–CHAMBER" PRECAST CONCRETE MANHOLE PER DETAIL "M" SHOWN ON SHEET C2.
94. INSTALL A 4" DIAMETER NDS GRAVITY BACKWATER VALVE PART NUMBER 475P OR APPROVED EQUAL. INSTALL BACKWATER VALVE INSIDE A 17"X28" METER BOX PER BROOKS PRODUCTS MODEL 65MB WITH CONCRETE COVER OR APPROVED EQUAL.
95. INSTALL 24" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
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97. INSTALL 5,000 GALLON CLARIFIER MANUFACTURED BY JENSEN PRECAST, MODEL JOP–5000 OR EQUIVALENT.
98. PUMP HOUSE AND UNDERGROUND STORAGE TANK PER PLUMPING PLANS.


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT — KELLEY NEEDHAM C-19064 — re-lic 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — MARK S. LAMOUREUX — No. 38382 — CIVIL — STATE OF CALIFORNIA


CONSULTANT
MSL ENGINEERING, INC
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305–2395 FAX (909) 305–2397
Mark S. Lamoureux 08–18–25
MARK S. LAMOUREUX (R.C.E. 38382) DATE


| NO | DATE | BY | DESCRIPTION |
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DRAWN: JGA | CHECKED: MSL
DATE: 07/01/2025 | SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR

GRADING AND DRAINAGE PLAN DETAIL SHEET

DRAWING NUMBER: C5.1

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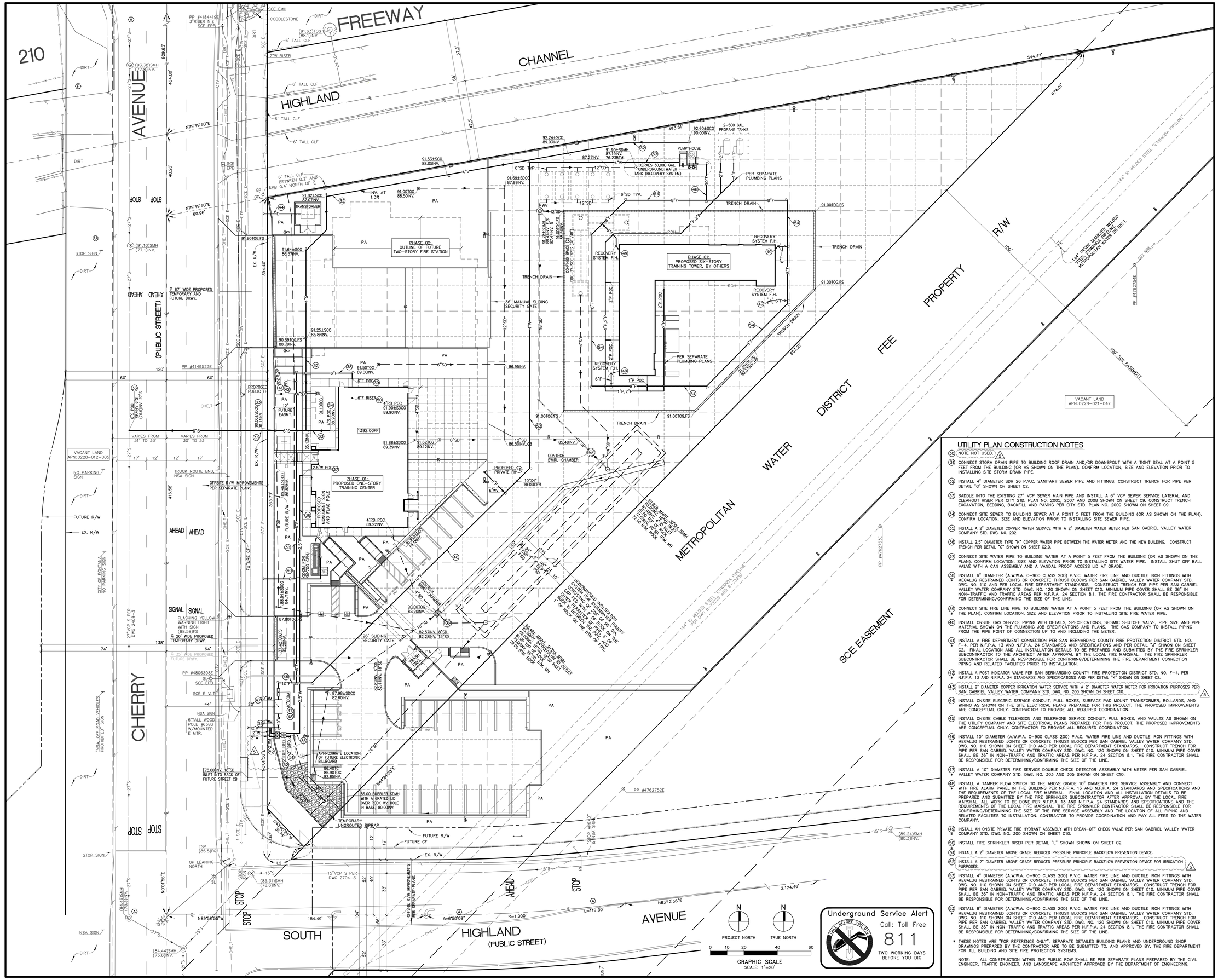
9/24/2025 11:24:29 PM, MSL ENGINEERING, INC. (JA)
JN 20008 – 20008 C5.0gdp–C5.1gdp




## UTILITY PLAN CONSTRUCTION NOTES

(30) NOTE NOT USED. 5

(31) CONNECT STORM DRAIN PIPE TO BUILDING ROOF DRAIN AND/OR DOWNSPOUT WITH A TIGHT SEAL AT A POINT 5 FEET FROM THE BUILDING (OR AS SHOWN ON THE PLAN). CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING SITE STORM DRAIN PIPE.

(32) INSTALL 4" DIAMETER SDR 26 P.V.C. SANITARY SEWER PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.

(33) SADDLE INTO THE EXISTING 27" VCP SEWER MAIN PIPE AND INSTALL A 6" VCP SEWER SERVICE LATERAL AND CLEANOUT RISER PER CITY STD. PLAN NO. 2005, 2007 AND 2008 SHOWN ON SHEET C9. CONSTRUCT TRENCH EXCAVATION, BEDDING, BACKFILL AND PAVING PER CITY STD. PLAN NO. 2009 SHOWN ON SHEET C9.

(34) CONNECT SITE SEWER TO BUILDING SEWER AT A POINT 5 FEET FROM THE BUILDING (OR AS SHOWN ON THE PLAN). CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING SITE SEWER PIPE.

(35) INSTALL A 2" DIAMETER COPPER WATER SERVICE WITH A 2" DIAMETER WATER METER PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 202.

(36) INSTALL 2.5" DIAMETER TYPE "K" COPPER WATER PIPE BETWEEN THE WATER METER AND THE NEW BUILDING. CONSTRUCT TRENCH PER DETAIL "G" SHOWN ON SHEET C2.0.

(37) CONNECT SITE WATER PIPE TO BUILDING WATER AT A POINT 5 FEET FROM THE BUILDING (OR AS SHOWN ON THE PLAN). CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING SITE WATER PIPE. INSTALL SHUT OFF BALL VALVE WITH A CAN ASSEMBLY AND A VANDAL PROOF ACCESS LID AT GRADE.

(38) INSTALL 6" DIAMETER (A.W.W.A. C-900 CLASS 200) P.V.C. WATER FIRE LINE AND DUCTILE IRON FITTINGS WITH MEGALUG RESTRAINED JOINTS OR CONCRETE THRUST BLOCKS PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 110 AND PER LOCAL FIRE DEPARTMENT STANDARDS. CONSTRUCT TRENCH FOR PIPE PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 120 SHOWN ON SHEET C10. MINIMUM PIPE COVER SHALL BE 36" IN NON-TRAFFIC AND TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE.

(39) CONNECT SITE FIRE LINE PIPE TO BUILDING WATER AT A POINT 5 FEET FROM THE BUILDING (OR AS SHOWN ON THE PLAN). CONFIRM LOCATION, SIZE AND ELEVATION PRIOR TO INSTALLING SITE FIRE WATER PIPE.

(40) INSTALL ONSITE GAS SERVICE PIPING WITH DETAILS, SPECIFICATIONS, SEISMIC SHUTOFF VALVE, PIPE SIZE AND PIPE MATERIAL SHOWN ON THE PLUMBING JOB SPECIFICATIONS AND PLANS. THE GAS COMPANY TO INSTALL PIPING FROM THE PIPE POINT OF CONNECTION UP TO AND INCLUDING THE METER.

(41) INSTALL A FIRE DEPARTMENT CONNECTION PER SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT STD. NO. F-4, PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND PER DETAIL "J" SHOWN ON SHEET C2. FINAL LOCATION AND ALL INSTALLATION DETAILS TO BE PREPARED AND SUBMITTED BY THE FIRE SPRINKLER SUBCONTRACTOR TO THE ARCHITECT AFTER APPROVAL BY THE LOCAL FIRE MARSHAL. THE FIRE SPRINKLER SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING/DETERMINING THE FIRE DEPARTMENT CONNECTION PIPING AND RELATED FACILITIES PRIOR TO INSTALLATION.

(42) INSTALL A POST INDICATOR VALVE PER SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT STD. NO. F-4, PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND PER DETAIL "K" SHOWN ON SHEET C2.

(43) INSTALL 2" DIAMETER COPPER IRRIGATION WATER SERVICE WITH A 2" DIAMETER WATER METER FOR IRRIGATION PURPOSES PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 200 SHOWN ON SHEET C10. 5

(44) INSTALL ONSITE ELECTRIC SERVICE CONDUIT, PULL BOXES, SURFACE PAD MOUNT TRANSFORMER, BOLLARDS, AND WIRING AS SHOWN ON THE SITE ELECTRICAL PLANS PREPARED FOR THIS PROJECT. THE PROPOSED IMPROVEMENTS ARE CONCEPTUAL ONLY. CONTRACTOR TO PROVIDE ALL REQUIRED COORDINATION.

(45) INSTALL ONSITE CABLE TELEVISION AND TELEPHONE SERVICE CONDUIT, PULL BOXES, AND VAULTS AS SHOWN ON THE UTILITY COMPANY AND SITE ELECTRICAL PLANS PREPARED FOR THIS PROJECT. THE PROPOSED IMPROVEMENTS ARE CONCEPTUAL ONLY. CONTRACTOR TO PROVIDE ALL REQUIRED COORDINATION.

(46) INSTALL 10" DIAMETER (A.W.W.A. C-900 CLASS 200) P.V.C. WATER FIRE LINE AND DUCTILE IRON FITTINGS WITH MEGALUG RESTRAINED JOINTS OR CONCRETE THRUST BLOCKS PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 110 SHOWN ON SHEET C10 AND PER LOCAL FIRE DEPARTMENT STANDARDS. CONSTRUCT TRENCH FOR PIPE PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 120 SHOWN ON SHEET C10. MINIMUM PIPE COVER SHALL BE 36" IN NON-TRAFFIC AND TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE.

(47) INSTALL A 10" DIAMETER FIRE SERVICE DOUBLE CHECK DETECTOR ASSEMBLY WITH METER PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 303 AND 305 SHOWN ON SHEET C10.

(48) INSTALL A TAMPER FLOW SWITCH TO THE ABOVE GRADE 10" DIAMETER FIRE SERVICE ASSEMBLY AND CONNECT WITH FIRE ALARM PANEL IN THE BUILDING PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL. FINAL LOCATION AND ALL INSTALLATION DETAILS TO BE PREPARED AND SUBMITTED BY THE FIRE SPRINKLER SUBCONTRACTOR AFTER APPROVAL BY THE LOCAL FIRE MARSHAL. ALL WORK TO BE DONE PER N.F.P.A. 13 AND N.F.P.A. 24 STANDARDS AND SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING/DETERMINING THE SIZE OF THE FIRE SERVICE ASSEMBLY AND THE LOCATION OF ALL PIPING AND RELATED FACILITIES TO INSTALLATION. CONTRACTOR TO PROVIDE COORDINATION AND PAY ALL FEES TO THE WATER COMPANY.

(49) INSTALL AN ONSITE PRIVATE FIRE HYDRANT ASSEMBLY WITH BREAK-OFF CHECK VALVE PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 300 SHOWN ON SHEET C10.

(50) INSTALL FIRE SPRINKLER RISER PER DETAIL "L" SHOWN SHOWN ON SHEET C2.

(51) INSTALL A 2" DIAMETER ABOVE GRADE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE.

(52) INSTALL A 2" DIAMETER ABOVE GRADE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE FOR IRRIGATION PURPOSES. 5

(53) INSTALL 4" DIAMETER (A.W.W.A. C-900 CLASS 200) P.V.C. WATER FIRE LINE AND DUCTILE IRON FITTINGS WITH MEGALUG RESTRAINED JOINTS OR CONCRETE THRUST BLOCKS PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 110 SHOWN ON SHEET C10 AND PER LOCAL FIRE DEPARTMENT STANDARDS. CONSTRUCT TRENCH FOR PIPE PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 120 SHOWN ON SHEET C10. MINIMUM PIPE COVER SHALL BE 36" IN NON-TRAFFIC AND TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE.

(54) INSTALL 8" DIAMETER (A.W.W.A. C-900 CLASS 200) P.V.C. WATER FIRE LINE AND DUCTILE IRON FITTINGS WITH MEGALUG RESTRAINED JOINTS OR CONCRETE THRUST BLOCKS PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 110 SHOWN ON SHEET C10 AND PER LOCAL FIRE DEPARTMENT STANDARDS. CONSTRUCT TRENCH FOR PIPE PER SAN GABRIEL VALLEY WATER COMPANY STD. DWG. NO. 120 SHOWN ON SHEET C10. MINIMUM PIPE COVER SHALL BE 36" IN NON-TRAFFIC AND TRAFFIC AREAS PER N.F.P.A. 24 SECTION 8.1. THE FIRE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING/CONFIRMING THE SIZE OF THE LINE.

* THESE NOTES ARE "FOR REFERENCE ONLY". SEPARATE DETAILED BUILDING PLANS AND UNDERGROUND SHOP DRAWINGS PREPARED BY THE CONTRACTOR ARE TO BE SUBMITTED TO, AND APPROVED BY, THE FIRE DEPARTMENT FOR ALL BUILDING AND SITE FIRE PROTECTION SYSTEMS.

NOTE: ALL CONSTRUCTION WITHIN THE PUBLIC ROW SHALL BE PER SEPARATE PLANS PREPARED BY THE CIVIL ENGINEER, TRAFFIC ENGINEER, AND LANDSCAPE ARCHITECT APPROVED BY THE DEPARTMENT OF ENGINEERING.

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT — KELLEY NEEDHAM — C-13054 — exp. 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — MARK S. LAMOUREUX — No. 38382 — CIVIL — STATE OF CALIFORNIA

CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
Mark S. Lamoureux 08-18-25
MARK S. LAMOUREUX (R.C.E. 38382) DATE

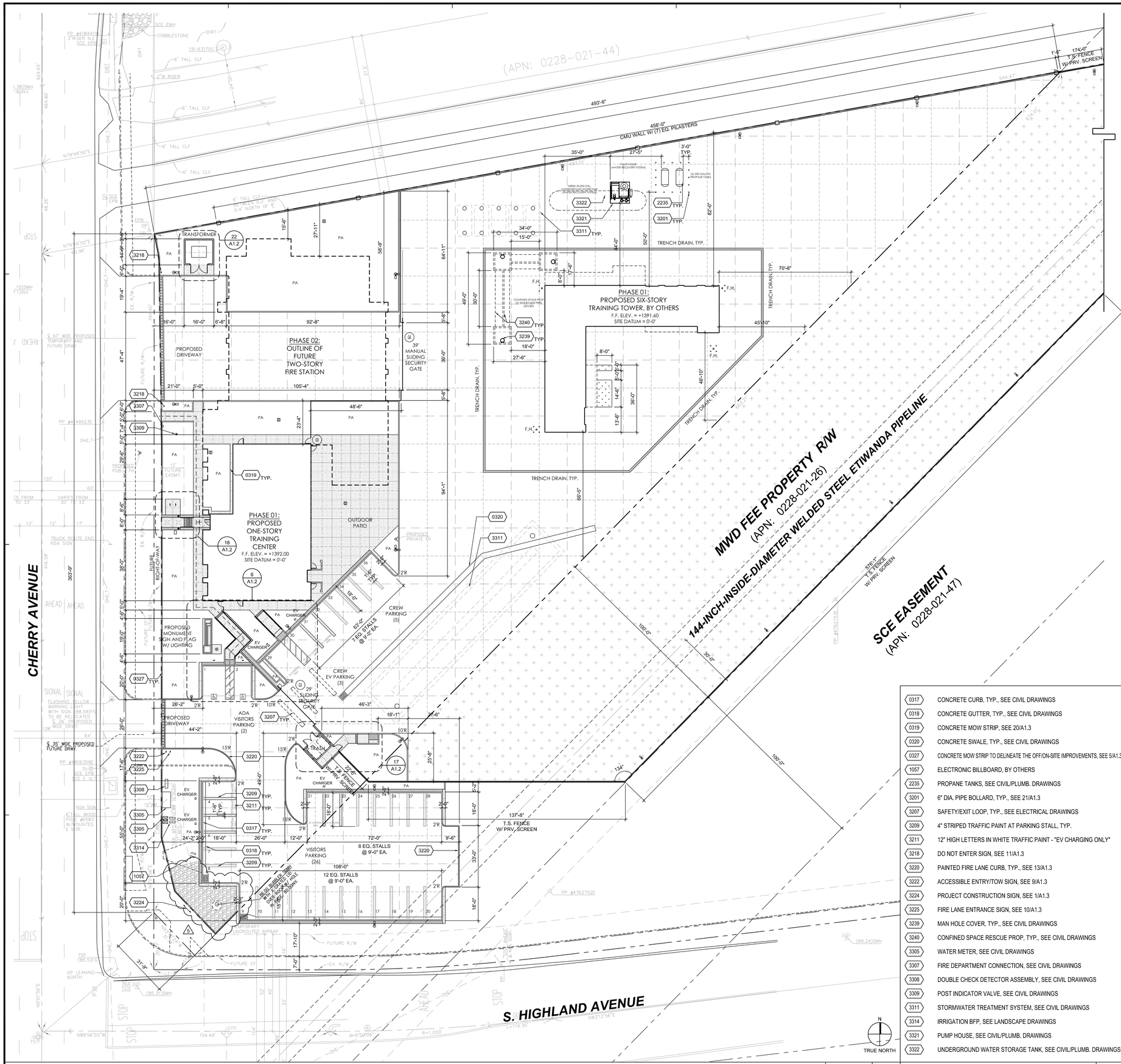
| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| #1 | REVISIONS | | |

DRAWN: JGA | CHECKED: MSL
DATE: 07/01/2025 | SCALE: AS SHOWN
PROJECT NUMBER: W2100100AR

UTILITY PLAN

DRAWING NUMBER: C6

BID SET_ADDENDUM 5
9/24/2025 11:30:58 PM MSL ENGINEERING, INC. (JA)
JN 20038 - 20038 C6.dwt




| | |
|---|---|
| SITE PLAN | 1" = 20'-0" 12 |
| REFERENCE NOTES | 8 |
| MATERIAL LEGEND & NOTES | 4 |

| | |
|---|---|
| 0317 | CONCRETE CURB, TYP., SEE CIVIL DRAWINGS |
| 0318 | CONCRETE GUTTER, TYP., SEE CIVIL DRAWINGS |
| 0319 | CONCRETE MOW STRIP, SEE 20/A1.3 |
| 0320 | CONCRETE SWALE, TYP., SEE CIVIL DRAWINGS |
| 0327 | CONCRETE MOW STRIP TO DELINEATE THE OFF/ON-SITE IMPROVEMENTS, SEE 5/A1.3 |
| 1057 | ELECTRONIC BILLBOARD, BY OTHERS |
| 2235 | PROPANE TANKS, SEE CIVIL/PLUMB. DRAWINGS |
| 3201 | 6" DIA. PIPE BOLLARD, TYP., SEE 21/A1.3 |
| 3207 | SAFETY/EXIT LOOP, TYP., SEE ELECTRICAL DRAWINGS |
| 3209 | 4" STRIPED TRAFFIC PAINT AT PARKING STALL, TYP. |
| 3211 | 12" HIGH LETTERS IN WHITE TRAFFIC PAINT - "EV CHARGING ONLY" |
| 3218 | DO NOT ENTER SIGN, SEE 11/A1.3 |
| 3220 | PAINTED FIRE LANE CURB, TYP., SEE 13/A1.3 |
| 3222 | ACCESSIBLE ENTRY/TOW SIGN, SEE 9/A1.3 |
| 3224 | PROJECT CONSTRUCTION SIGN, SEE 1/A1.3 |
| 3225 | FIRE LANE ENTRANCE SIGN, SEE 10/A1.3 |
| 3239 | MAN HOLE COVER, TYP., SEE CIVIL DRAWINGS |
| 3240 | CONFINED SPACE RESCUE PROP, TYP., SEE CIVIL DRAWINGS |
| 3305 | WATER METER, SEE CIVIL DRAWINGS |
| 3307 | FIRE DEPARTMENT CONNECTION, SEE CIVIL DRAWINGS |
| 3308 | DOUBLE CHECK DETECTOR ASSEMBLY, SEE CIVIL DRAWINGS |
| 3309 | POST INDICATOR VALVE, SEE CIVIL DRAWINGS |
| 3311 | STORMWATER TREATMENT SYSTEM, SEE CIVIL DRAWINGS |
| 3314 | IRRIGATION BFP, SEE LANDSCAPE DRAWINGS |
| 3321 | PUMP HOUSE, SEE CIVIL/PLUMB. DRAWINGS |
| 3322 | UNDERGROUND WATER STORAGE TANK, SEE CIVIL/PLUMB. DRAWINGS |

ASSESSOR PARCEL NUMBER(S):
0228-021-46

LEGAL DESCRIPTION:
THAT PORTION OF THE NORTHWEST ONE-QUARTER OF SECTION 35, TOWNSHIP 1 NORTH, RANGE 6 WEST, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 35, THENCE ALONG THE NORTH LINE OF SAID SECTION 35, SOUTH 89 DEG 55'12" EAST, 950.74 FEET TO THE NORTHWESTERLY LINE OF THE LAND CONVEYED IN A DEED TO THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA RECORDED JULY 31, 1991 AS INSTRUMENT NO. 91-290525 THENCE ALONG SAID NORTHWESTERLY LINE SOUTH 44 DEG 23'30" WEST, 579.12 FEET TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING SOUTH 44 DEG 23'30" WEST, 663.27 FEET; THENCE NORTH 43 DEG 47'30" WEST, 31.95 FEET; THENCE NORTH 00 DEG 01'56" EAST, 363.73 FEET; THENCE NORTH 79 DEG 49'49" EAST,493.66 FEET, TO THE TRUE POINT OF BEGINNING.

GROSS ACREAGE:
SITE = 98,855 SQUARE FEET OR 2.26 ACRES
MWD EASEMENT = 69,504 SQUARE FEET OR 1.59 ACRES

EXISTING ZONING / SPECIFIC PLAN:
RMU (REGIONAL MIXED USE) / WESTGATE (WESTGATE EAST COMMUNITY AREA) - MU-1

PROPERTY OWNER:
CITY OF FONTANA
8353 SIERRA AVE., FONTANA, CA 92335

PROPERTY ADDRESS:
6585 CHERRY AVENUE, FONTANA, CA 92336

| PROPOSED (SITE) LOT COVERAGE | PHASE 01 | PHASE 02 |
|---|---|---|
| BUILDINGS (FOOTPRINT): | 7,523 S.F. ( 7.6%) | 10,211 S.F. (10.3%) |
| LANDSCAPING: | 16,977 S.F. (17.2%) | TBD S.F. (TBD%) |
| PAVED AREA: | 74,355 S.F. (75.2%) | TBD S.F. (TBD%) |
| TOTAL: | 98,855 S.F. ( 100%) | 98,855 S.F. ( 100%) |

| PROPOSED (MWD EASEMENT) LOT COVERAGE | PHASE 01 | PHASE 02 |
|---|---|---|
| LANDSCAPING: | 7,061 S.F. (10.2%) | |
| CONCRETE PAVED AREA: | 7,774 S.F. (11.2%) | |
| ASPHALT PAVED AREA: | 54,669 S.F. (78.6%) | |
| TOTAL: | 69,504 S.F. ( 100%) | |

| PROPOSED BUILDING AREA | PHASE 01 | PHASE 02 |
|---|---|---|
| SINGLE-STORY TRAINING CENTER: | 4,193 S.F. (37.5%) | |
| SIX-STORY TRAINING TOWER: | 7,000 S.F. (62.5.%) | |
| TWO-STORY FIRE STATION: | | 14,663 S.F. ( 100%) |
| TOTAL: | 11,193 S.F. ( 100%) | 14,663 S.F. ( 100%) |

## SITE INFORMATION 1

| TYPE OF PARKING SPACE | QUANTITY |
|---|---|
| STANDARD - CREW | 5 |
| STANDARD - VISITOR | 21 |
| ACCESSIBLE/ VAN ACCESSIBLE (TABLE 11B-208.2, CBC 2022) | 1/1=2 |
| CLEAN AIR/ VANPOOL/ EV/ VAN ACCESSIBLE/ AMBULATORY | 6/1/1=8 |
| TOTAL | 36 |
| ACCESSIBLE PARKING SPACES REQUIRED (CBC 2022) | 2 |
| EV CAPABLE PARKING SPACES REQUIRED (CGBSC 2022) | 8 |

## PARKING SUMMARY 2

CONCRETE PAVING
(4,000 PSI, 6" THICK W/ #4 REBAR@ 18" O.C. EACH WAY)
CONCRETE JOINT CJ1, SEE 2/A1.3
CONCRETE JOINT CJ2, SEE 2/A1.3

COLORED CONCRETE SIDEWALK
(4,000 PSI, 4.5" THICK W/ #4 REBAR@ 18" O.C. EACH WAY)
SAW CUT JOINT TJ1, SEE 2/A1.3
EXPANSION JOINT EJ1, SEE 2/A1.3
COLOR 1

ASPHALT PAVING

ARTIFICIAL TURF
INSTALLED OVER CONCRETE SURFACE: BILTRIGHT TURF, TRUESCAPE, OR APPROVED EQUAL.

NEW CONCRETE MASONRY RETAINING OR ENCLOSURE WALL, 8" WIDE, SPLIT FACE MASONRY, 8 "or 20" SPLIT FACE WITH CAP, TYP. U.N.O. SEE 19 AND 22/A1.4

NEW TUBE STEEL FENCING WITH PRIVACY SCREEN ALONG THE ENTIRE OUTER PERIMETER, TYP. U.N.O., SEE 20/A1.4

LIGHT STANDARD, SEE ELECTRICAL DRAWINGS

DRAINAGE STRUCTURES, SEE CIVIL DRAWINGS

PA PLANTER AREA, SEE LANDSCAPING DRAWINGS

F.H. FIRE HYDRANT, SEE CIVIL DRAWINGS

ACCESSIBLE PATH OF TRAVEL: NO ABRUPT CHANGES IN ELEVATION ALONG PATH OF TRAVEL

PROPERTY LINE

1. SEE CIVIL, MECHANICAL, PLUMBING, ELECTRICAL AND LANDSCAPE SITE PLANS FOR LOCATION OF ADDITIONAL SITE ITEMS.
2. EXTEND CONCRETE PAVING INTO TRASH ENCLOSURE, TRANSFORMER ENCLOSURE AND EMERGENCY GENERATOR ENCLOSURE.
3. SEE DETAIL 3/A1.3 FOR EDGE CONDITION AT CONCRETE SIDE WALK TO LANDSCAPE.
4. SEE DETAIL 13/A1.3 FOR FIRE LANE CURB.
5. HAZARDOUS MATERIALS FROM ANY TRAINING ACTIVITIES SHALL NOT BE PERMITTED TO FLOW INTO METROPOLITAN'S FEE PROPERTY.
6. VEHICLES THAT IMPOSE A LOAD NO GREATER THAN THAT IMPOSED BY AN AASHTO H-20 VEHICLE MAY BE USED WITHIN OUR FEE PROPERTY RIGHT-OF-WAY.
7. VEHICLES OF VARIABLE WHEEL CONFIGURATION SUCH AS READY-MIX CONCRETE TRUCKS WITH LIFTABLE OR ADJUSTABLE AUXILIARY AXLES SHALL BE OPERATED IN THEIR HIGHWAY LEGAL CONFIGURATION WHEN THEY ARE WITHIN 25 FEET OF THE CENTERLINE OF METROPOLITAN'S PIPELINE.
8. NO VIBRATORY COMPACTION EQUIPMENT IN VIBRATORY MODE SHALL BE USED WITHIN 25 FEET OF THE CENTERLINE OF THE PIPELINE.
9. PLEASE NOTE THAT ANY STOCKPILING OF MATERIALS OR STORAGE OF EQUIPMENT WITHIN METROPOLITAN'S RIGHT-OF-WAY IS NOT PERMITTED.
10. TRANSFORMER TO BE COMPLETELY SCREEN.
11. RAIN GUTTERS TO BE ON THE INTERIOR WHEN VISIBLE FROM THE PUBLIC RIGHT OF WAY.
12. NOTIFY JESSE FRANCO, WATER SYSTEM OPERATIONS GROUP, (818) 468-5188, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY WORK WITHIN THE VICINITY OF OUR FACILITIES - MWD.
13. SITE FULLY COMPLIES WITH T-24, ACCESSIBILITY STANDARDS: AND SUBJECT TO FIELD VERIFICATION.


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY HERSCHAM
C-19064
Ex.Dat: 03/31/27
STATE OF CALIFORNIA

CONSULTANT

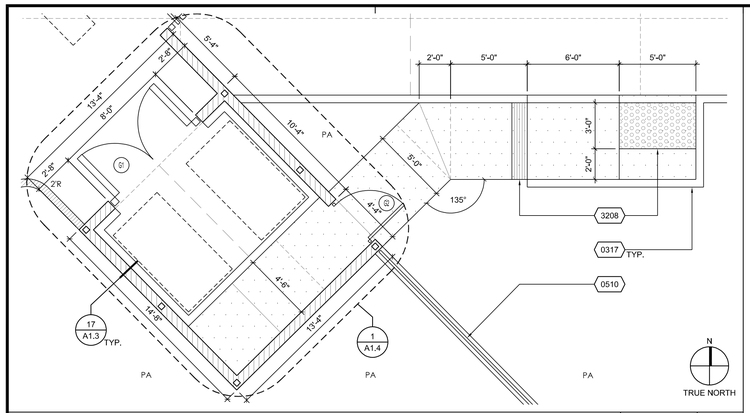
| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| # | | | REVISIONS |

| | | | |
|---|---|---|---|
| DRAWN: | JM | CHECKED: | KN |
| DATE: | 09/25/2025 | SCALE: | AS NOTED |
| PROJECT NUMBER: | W2100100AR | | |

SITE PLAN

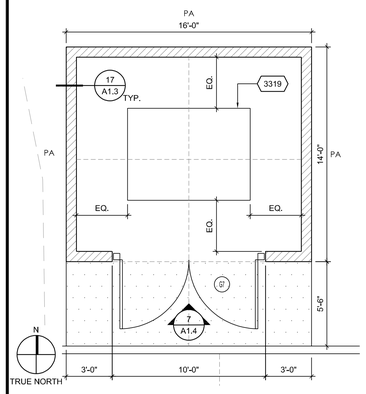
DRAWING NUMBER: A1.1

BID SET_ADDENDUM 5



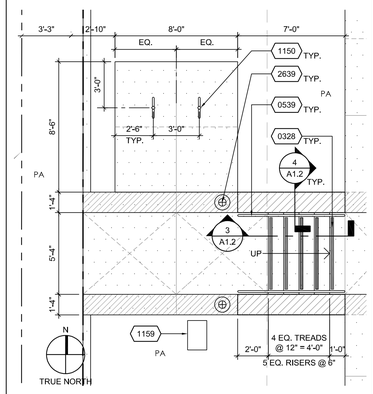

## TRASH ENCLOSURE

1/4" = 1'-0" | 17



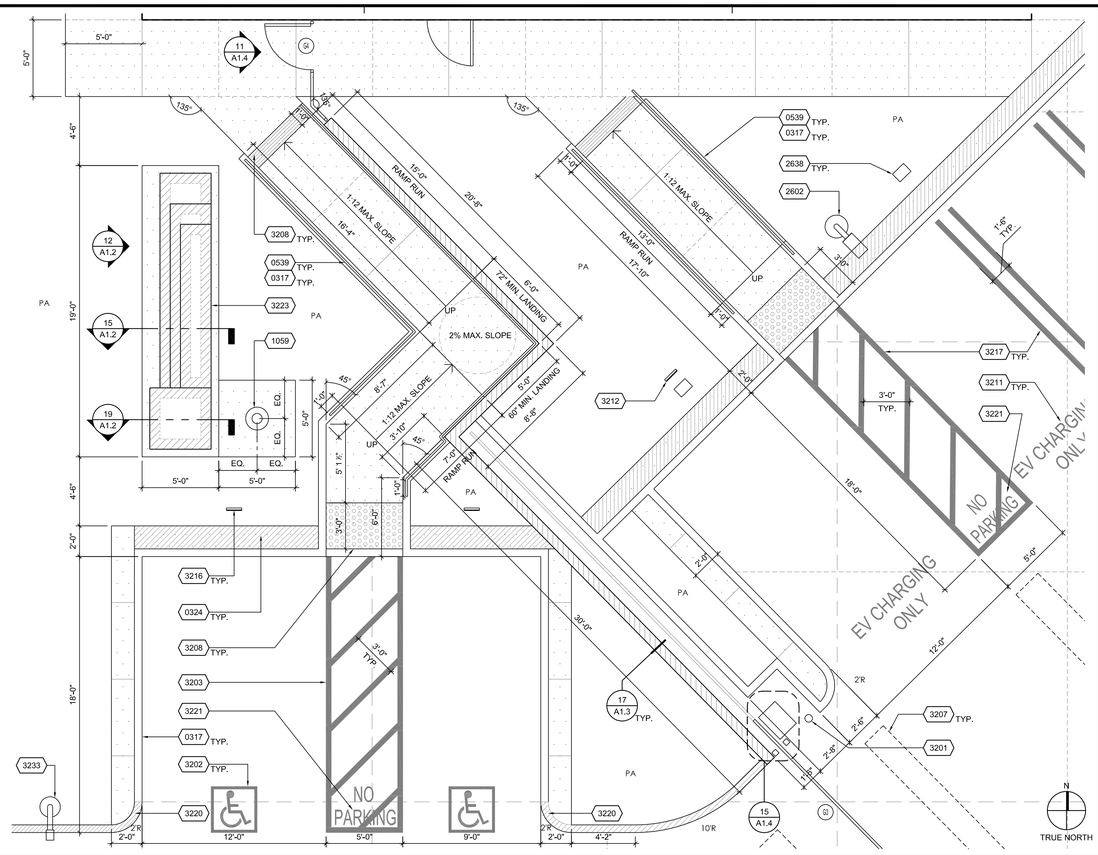

## TRANSFORMER ENCLOSURE

1/4" = 1'-0" | 22




## ENTRY STAIR / BIKE RACK

1/4" = 1'-0" | 18




## ADA-EV-CLEAN AIR PARKING, MONUMENT SIGN, FLAG POLE, AND RAMPS

1/4" = 1'-0" | 6

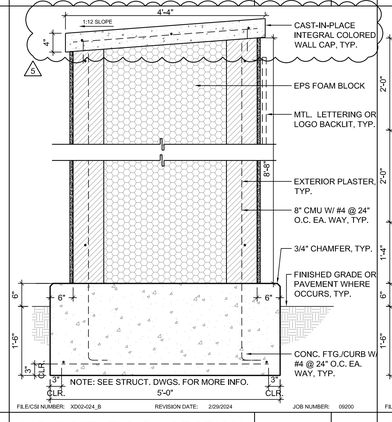
| | |
|---|---|
| 0317 | CONCRETE CURB, TYP., SEE CIVIL DRAWINGS |
| 0324 | COLORED CONCRETE, COLOR 1, TYP. |
| 0328 | STAIR CONTRAST COLOR |
| 0510 | TUBE STEEL FENCING, SEE 20/A1.4 |
| 0539 | STAINLESS STEEL HANDRAIL, SEE 8/A1.2 |
| 1059 | FLAG POLE, SEE 4/A1.3 |
| 1150 | BICYCLE RACK |
| 1159 | MAILBOX, SEE 8/A1.3 AND VERIFY LOCATION W/ POSTMASTER |
| 2602 | LIGHT STANDARD, TYP., SEE ELECTRICAL DRAWINGS |
| 2638 | CHARGING STATION, SEE ELECTRICAL DRAWINGS |
| 2639 | BOLLARD LIGHT, SEE ELECTRICAL DRAWINGS |
| 3201 | 6" DIA. PIPE BOLLARD, TYP., SEE 21/A1.3 |
| 3202 | PAINTED ISA SYMBOL, TYP., SEE 14/A1.3 |
| 3203 | 4" WIDE BLUE TRAFFIC PAINT STRIPING AT 36" O.C., TYP. |
| 3207 | SAFETY/EXIT LOOP, TYP., SEE ELECTRICAL DRAWINGS |
| 3208 | TRUNCATED DOMES AND GROOVED BORDER, TYP., SEE 16/A1.3 |
| 3211 | 12" HIGH LETTERS IN WHITE TRAFFIC PAINT - "EV CHARGING ONLY" |
| 3212 | EV CHARGING ACCESSIBLE PARKING SIGN, SEE 15/A1.3 |
| 3216 | ACCESSIBLE PARKING SIGN, SEE 12/A1.3 |
| 3217 | 4" WIDE GREEN TRAFFIC PAINT STRIPING, TYP. |
| 3220 | PAINTED FIRE LANE CURB, TYP., SEE 13/A1.3 |
| 3221 | 12" HIGH LETTERS IN WHITE TRAFFIC PAINT, TYP. |
| 3223 | MONUMENT SIGN, SEE 12/A1.2 |
| 3233 | POST MOUNTED KEYPAD FOR GATE CONTROL, SEE 18/A1.3 |
| 3319 | TRANSFORMER/ PAD, SEE ELECTRICAL DRAWINGS |

NOTES:

1. SEE THE GENERAL NOTES/LEGEND ON SHEET A1.1 FOR MORE INFO.
2. ALL SIGNS SHALL BE REVIEWED BY A SEPARATE DESIGN REVIEW PERMIT.

## REFERENCE NOTES

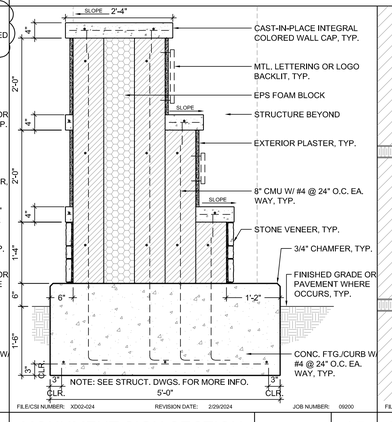
2




## MONUMENT SIGN SECTION

3/4"=1'-0" | 19

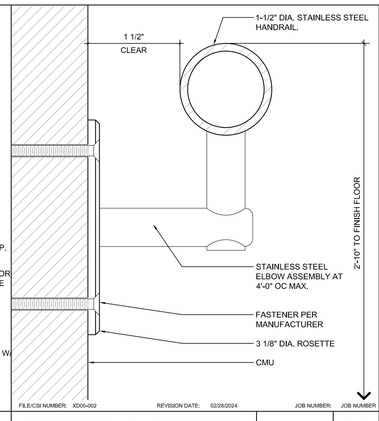
FILE/CSI NUMBER: XD02-024_B | REVISION DATE: 2/29/2024 | JOB NUMBER: 09200




## MONUMENT SIGN SECTION

3/4"=1'-0" | 15

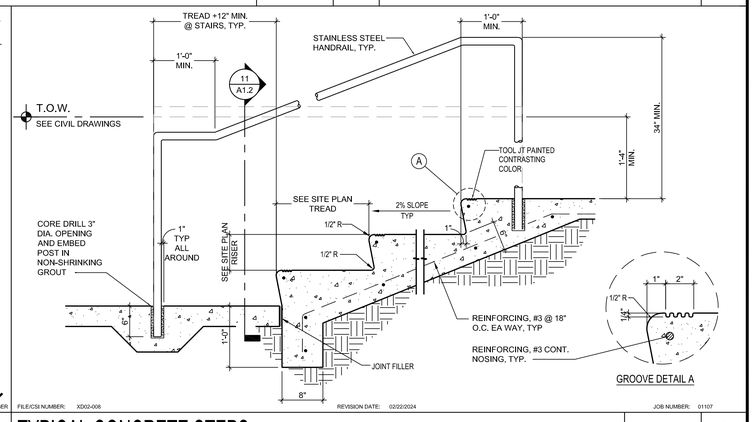
FILE/CSI NUMBER: XD02-024 | REVISION DATE: 2/29/2024 | JOB NUMBER: 09200




## HANDRAIL @ CMU WALL

FULL | 11

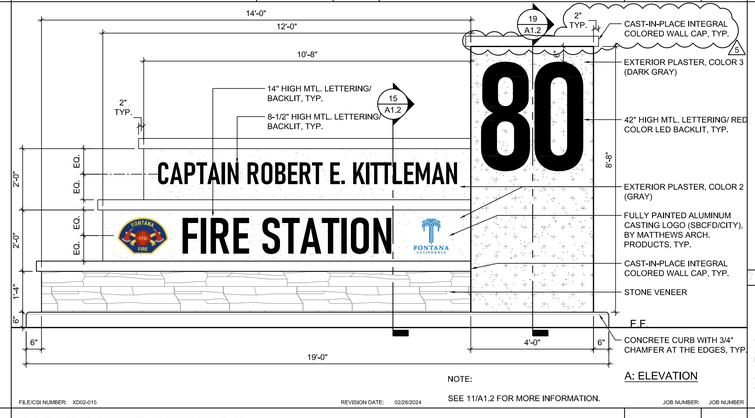
FILE/CSI NUMBER: XD05-002 | REVISION DATE: 02/28/2024 | JOB NUMBER: JOB NUMBER




## TYPICAL CONCRETE STEPS

1"=1'-0" | 3

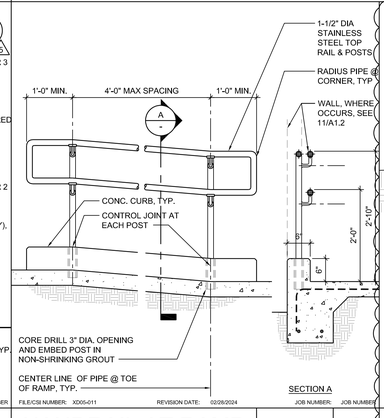
FILE/CSI NUMBER: XD02-008 | REVISION DATE: 02/22/2024 | JOB NUMBER: 01107




## MONUMENT SIGNAGE

1/2"=1'-0" | 12

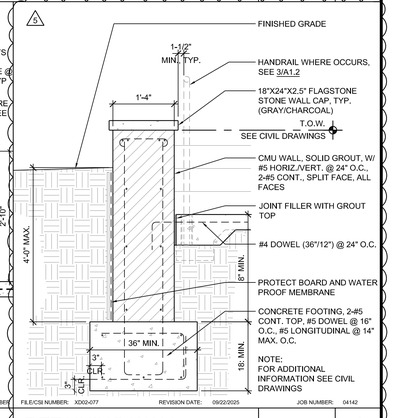
FILE/CSI NUMBER: XD02-015 | REVISION DATE: 02/28/2024 | JOB NUMBER: JOB NUMBER




## HANDRAIL AT RAMP

3/4"=1'-0" | 8

FILE/CSI NUMBER: XD05-011 | REVISION DATE: 02/28/2024 | JOB NUMBER: JOB NUMBER




## RETAINING WALL

3/4"=1'-0" | 4

FILE/CSI NUMBER: XD02-077 | REVISION DATE: 09/22/2025 | JOB NUMBER: 04142

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
MILES WESCHAM
C-19064
Ve.Inc 03/31/27
STATE OF CALIFORNIA

CONSULTANT

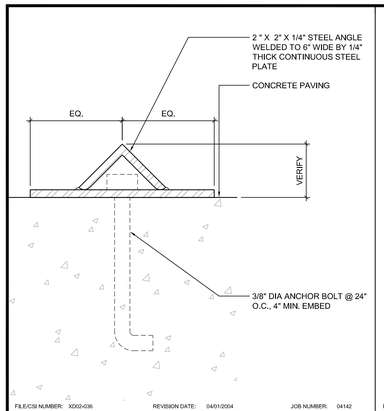
| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | REVISIONS |

| | |
|---|---|
| DRAWN: JM | CHECKED: KN |
| DATE: 09/25/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

ENLARGED SITE PLANS & SITE DETAILS

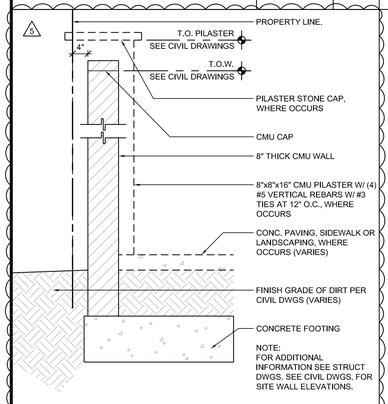
DRAWING NUMBER: A1.2

BID SET_ADDENDUM 5



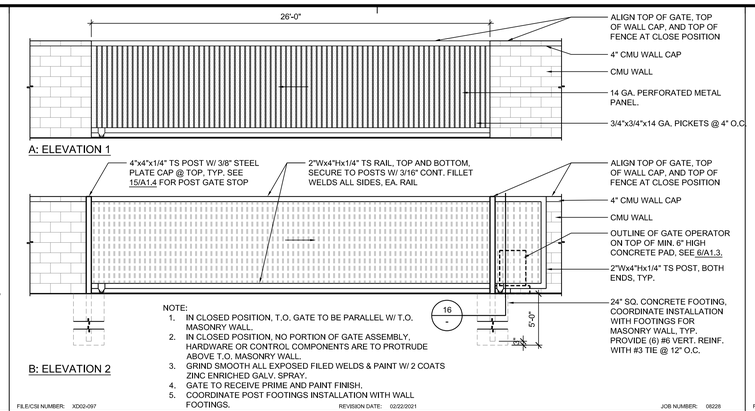

FILE/CSI NUMBER: XD02-036 | REVISION DATE: 04/01/2004 | JOB NUMBER: 04142

## ROLLING GATE TRACK | HALF | 21



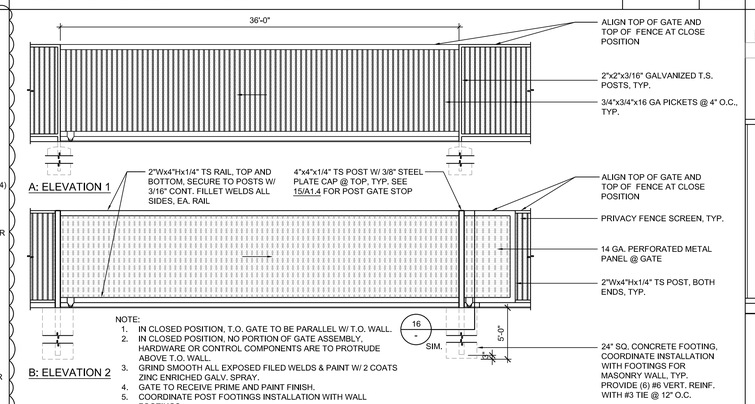

FILE/CSI NUMBER: XD02-041 | REVISION DATE: 04/01/2005 | JOB NUMBER: JOB NUMBER

## SITE WALL @ PL | 3/4"=1'-0" | 22



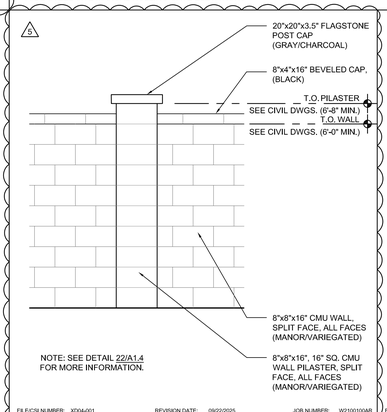

FILE/CSI NUMBER: XD02-097 | REVISION DATE: 02/22/2021 | JOB NUMBER: 08228

## TUBE STEEL SITE ROLLING GATE ELEVATIONS | 1/4" = 1'-0" | 13



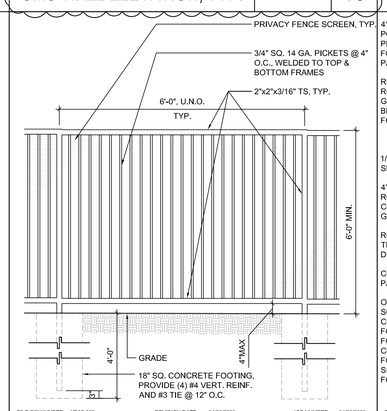

FILE/CSI NUMBER: XD02-097_B | REVISION DATE: 02/22/2021 | JOB NUMBER: 08228

## TUBE STEEL SITE MANUAL ROLLING GATE ELEVATIONS | 1/4" = 1'-0" | 14



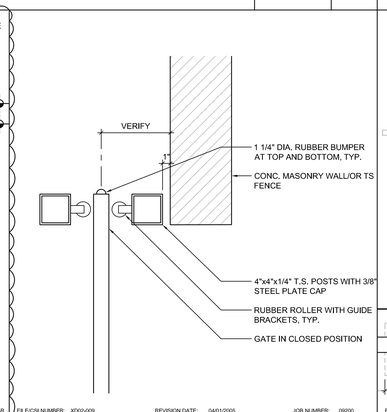

FILE/CSI NUMBER: XD04-001 | REVISION DATE: 09/22/2025 | JOB NUMBER: W2100100AR

## CMU WALL ELEVATION, TYP. | 1/2" = 1'-0" | 19



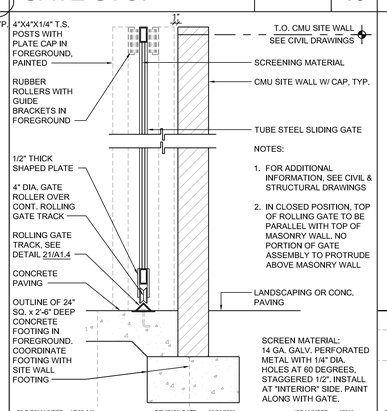

FILE/CSI NUMBER: XD02-098 | REVISION DATE: 04/25/2008 | JOB NUMBER: 04/25/2008

## TUBE STEEL FENCE | 1/2"=1'-0" | 20



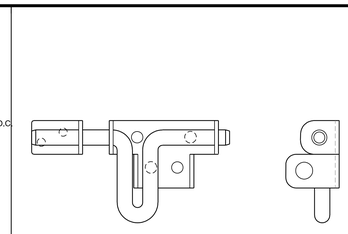

FILE/CSI NUMBER: XD02-009 | REVISION DATE: 04/01/2005 | JOB NUMBER: 09200

## GATE STOP | 1 1/2"=1'-0" | 15




FILE/CSI NUMBER: XD02-013 | REVISION DATE: 03/25/2020 | JOB NUMBER: 17256

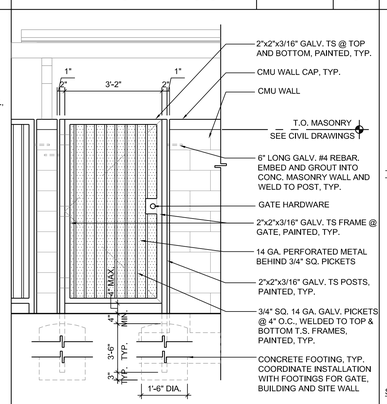
## WALL AT GATE | 3/4"=1'-0" | 16




NOTES:
1. ONLY OCCURS AT TRASH ENCLOSURE
2. HEAVY DUTY LOCK WELDED TO TRASH ENCLOSURE GATE
3. COORDINATE WITH THE FIRE DEPARTMENT

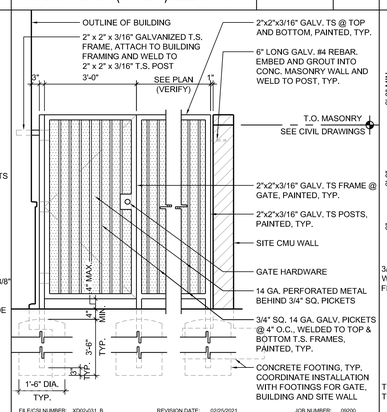
FILE/CSI NUMBER: XD02-025 | REVISION DATE: 02/21/2024 | JOB NUMBER: JOB NUMBER

## WELDED GATE LOCK | FULL | 9



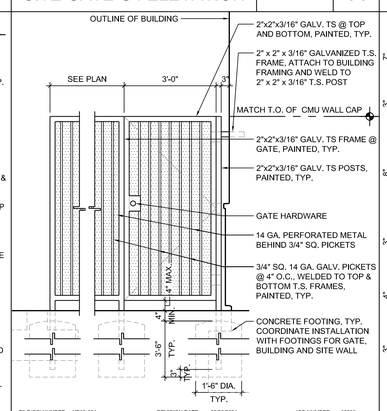

FILE/CSI NUMBER: XD02-029 | REVISION DATE: 04/02/2018 | JOB NUMBER: 17256

## SITE GATE G1 (TRASH) ELEVATION | 1/2"=1'-0" | 10



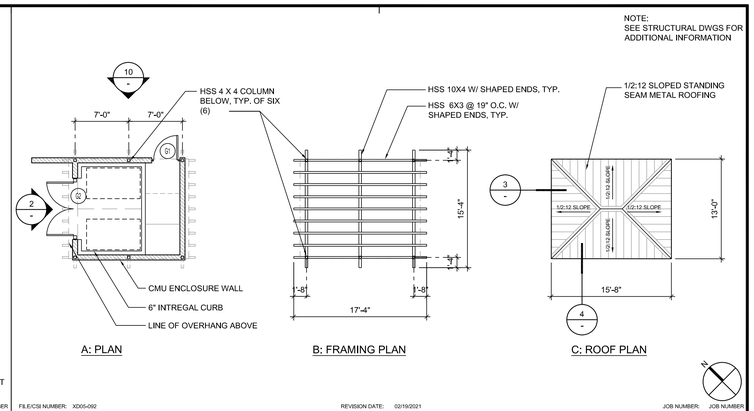

FILE/CSI NUMBER: XD02-031_B | REVISION DATE: 02/25/2021 | JOB NUMBER: 09200

## SITE GATE G4 ELEVATION | 1/2"=1'-0" | 11



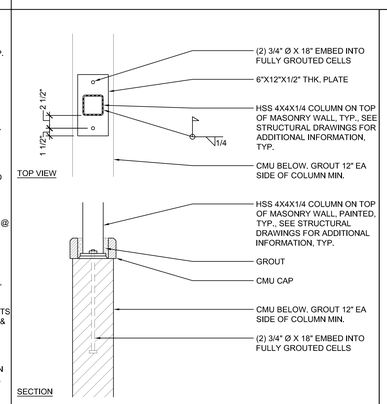

FILE/CSI NUMBER: XD02-031 | REVISION DATE: 02/25/2021 | JOB NUMBER: 09200

## SITE GATE G5 ELEVATION | 1/2"=1'-0" | 12



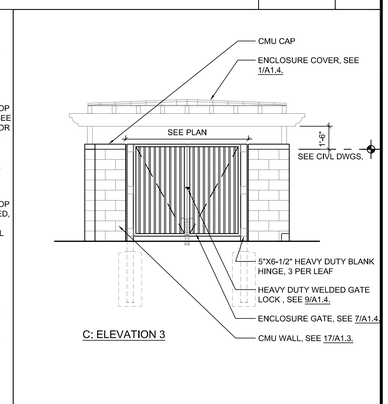

FILE/CSI NUMBER: XD03-092 | REVISION DATE: 02/19/2021 | JOB NUMBER: JOB NUMBER

## TRASH ENCLOSURE COVER | 1/8"=1'-0" | 1



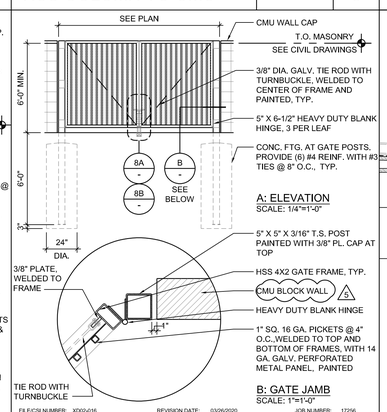

FILE/CSI NUMBER: XD02-35 | REVISION DATE: 00/00/2004 | JOB NUMBER: JOB NUMBER

## HSS COLUMN TO CMU | 1"=1'-0" | 6



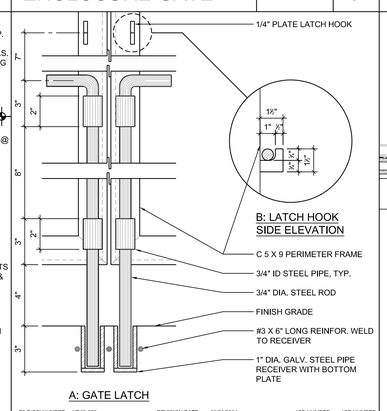

FILE/CSI NUMBER: XD02-072 | REVISION DATE: 02/22/2021 | JOB NUMBER: 08228

## TRASH ENCLOSURE ELEVATION | 1/4" = 1'-0" | 2



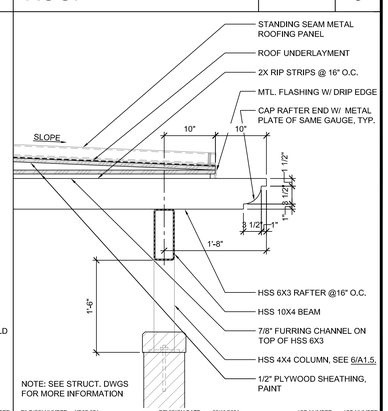

FILE/CSI NUMBER: XD02-016 | REVISION DATE: 03/26/2020 | JOB NUMBER: 17256

## ENCLOSURE GATE | AS NOTED | 7




FILE/CSI NUMBER: XD02-023 | REVISION DATE: 09/30/2004 | JOB NUMBER: JOB NUMBER

## GATE LATCH | 3"=1'-0" | 8




FILE/CSI NUMBER: XD07-073 | REVISION DATE: 02/19/2021 | JOB NUMBER: JOB NUMBER

## ROOF | 1"=1'-0" | 3




FILE/CSI NUMBER: XD07-074 | REVISION DATE: 02/19/2021 | JOB NUMBER: JOB NUMBER

## ROOF | 1"=1'-0" | 4


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
MILES WESTGHAM
C-19064
let.be: 03/31/27
STATE OF CALIFORNIA

CONSULTANT

| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |
| 0 | | | |
| Δ# | REVISIONS | | |

| | | | |
|---|---|---|---|
| DRAWN: | JM | CHECKED: | KN |
| DATE: | 09/25/2025 | SCALE: | AS NOTED |

PROJECT NUMBER: W2100100AR

# TRASH ENCLOSURE & SITE DETAILS

DRAWING NUMBER: A1.4

BID SET_ADDENDUM 5

| # | ROOM NAME | BASE | FLOOR | WAINSCOT NORTH | WAINSCOT EAST | WAINSCOT SOUTH | WAINSCOT WEST | WALLS NORTH | WALLS EAST | WALLS SOUTH | WALLS WEST | INTERIOR ELEVATION SHEET | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | LOBBY | RES | LVT | - | - | - | - | GYP | GYP | GYP | GYP | 13/A7.1 | - |
| 102 | VESTIBULE | RES | LVT | - | - | - | - | GYP | GYP | GYP | GYP | 6/A7.1 | - |
| 103 | ACCESSIBLE RESTROOM | POR | POR | - | - | - | - | POR | POR | POR | POR | 14/A7.1 | DEPRESS CONCRETE SLAB 2-1/2" |
| 104 | CUSTODIAL/ STORAGE | RES | CONC | CER | - | - | CER | IRG | IRG | IRG | IRG | 15/A7.1 | - |
| 105 | HALLWAY | RES | LVT | - | - | - | - | GYP | GYP | GYP | GYP | - | - |
| 106 | TRAINING OFFICE 1 | RES | CPT | - | - | - | - | GYP | GYP | GYP | GYP | 16/A7.1 | - |
| 107 | TRAINING OFFICE 2 | RES | CPT | - | - | - | - | GYP | GYP | GYP | GYP | 16/A7.1 | - |
| 108 | MEN'S RESTROOM | POR | POR | - | - | - | - | POR | POR | POR | POR | 5/A7.2 | DEPRESS CONCRETE SLAB 2-1/2" |
| 109 | MEN'S LOCKER/ SHOWER | POR | POR | - | - | - | - | POR | POR | POR | POR | 5/A7.2 | DEPRESS CONCRETE SLAB 2-1/2" |
| 110 | UNISEX BATHROOM | POR | POR | - | - | - | - | POR | POR | POR | POR | 8/A7.1 | DEPRESS CONCRETE SLAB 2-1/2" |
| 111 | WOMEN'S RESTROOM | POR | POR | - | - | - | - | POR | POR | POR | POR | 6/A7.2 | DEPRESS CONCRETE SLAB 2-1/2" |
| 112 | WOMEN'S LOCKERS/ SHOWER | POR | POR | - | - | - | - | POR | POR | POR | POR | 6/A7.2 | DEPRESS CONCRETE SLAB 2-1/2" |
| 113 | UNISEX BATHROOM | POR | POR | - | - | - | - | POR | POR | POR | POR | 8/A7.1 | DEPRESS CONCRETE SLAB 2-1/2" |
| 114 | TRAINING ROOM | RES | CPT | - | - | - | - | GYP | GYP/PLAM | GYP | GYP/PLAM | 8/A7.2 | - |
| 115 | TRAINING STORAGE | RES | CONC | - | - | - | - | IRG | IRG | IRG | IRG | - | - |
| 116 | ELECTRICAL ROOM | RES | CONC | - | - | - | - | GYP | GYP | GYP | GYP | - | - |
| 117 | FIRE RISER ROOM | RES | CONC | - | - | - | - | GYP | GYP | GYP | GYP | - | - |

5

FINISH NOTES:

1. ALL GYP. BOARD SURFACES TO BE PAINTED, TYP.
2. WALL, FLOOR AND CEILING FINISHES SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN 2022 CBC TABLE 803.13.
3. PROVIDE FULL HEIGHT FRP FINISH AT ALL MOP SINK LOCATIONS, U.N.O.
4. FOR TYPICAL WALL BASE, SEE DETAIL 4/A8.2.
5. FOR WALL BASE AT TILED LOCATION, SEE DETAIL 8/A8.2.
6. ALL EXPOSED CONCRETE BASE TO HAVE 3/4" RADIUS COVE.
7. FOR FLOOR TRANSITIONS, SEE DETAIL 9/A5.2.
8. DEPRESS CONCRETE SLAB 2-1/2" WHERE PORCELAIN FLOOR FINISH IS SCHEDULED, U.N.O.
9. VERIFY ALL FLOOR PATTERNS WITH ARCHITECT, SEE SHEET A6.2.
10. PORCELAIN TILE TO BE OVER TYPE X TILE BACKER BOARD AT ALL WALL AND CEILING LOCATIONS, U.N.O.
11. FOR TYPICAL WALL TILE PATTERN, SEE DETAIL 7/A8.2.
12. FOR TYPICAL SHOWER STALL, SEE DETAIL 1/A8.2.
13. FOR SECTION THROUGH TYPICAL SHOWER STALL, SEE DETAIL 3/A8.2.
14. 7/8" FURRING CHANNELS AT 16" O.C. SHALL BE USED ON ALL MASONRY SURFACES SCHEDULED TO RECEIVE GYPSUM BOARD FINISH AND 1-1/2" MIN. WHERE THERE IS CONDUIT, U.N.O.
15. VERIFY ADA CLEARANCES ARE TO THE FINISH TILE.

MATERIAL LEGEND:

BASE

| | |
|---|---|
| CER | CERAMIC TILE BASE |
| CONC | EXPOSED CONCRETE CURB |
| RES | RESILIENT BASE |
| EPXY | EPOXY BASE |

FLOOR

| | |
|---|---|
| ATL | ATHLETIC FLOORING |
| CONC | EXPOSED CONCRETE, SEALED WITH ASHFORD FORMULA, AND UL-390 E-ZEE SEAL BY ALLIED INTERNATIONAL |
| CER | CERAMIC TILE |
| CPT | CARPET |
| EPXY | EPOXY FLOORING |
| LVT | LUXURY VINYL TILE |
| PC | POLISHED CONCRETE |
| POR | PORCELAIN TILE |
| RES | RESILIENT FLOORING |
| RUB | RUBBER FLOORING |

WALL

| | |
|---|---|
| AEG | ACOUSTICALLY ENHANCED GYPSUM BOARD |
| CMU | EXPOSED CONCRETE MASONRY |
| CONC | EXPOSED CONCRETE |
| CER | CERAMIC TILE |
| FRP | FIBERGLASS REINFORCED PANELS OVER GYPSUM BOARD |
| GYP | GYPSUM BOARD |
| IRG | IMPACT RESISTANT / ABUSE RESISTANT GYPSUM BOARD |
| MIR | MIRROR OVER IR GYPSUM BOARD |
| MRG | MOISTURE RESISTANT GYPSUM BOARD |
| PLAM | PLASTIC LAMINATE PANEL |
| POR | PORCELAIN TILE |
| PVC | PVC INTERLOCKING PANEL |

## FINISH SCHEDULE AND NOTES

| # | DOOR SIZE | FEATURE TYPE | FEATURE THICKNESS | FEATURE LABEL (MIN.) | HARDWARE GROUP | HARDWARE SELF CLOSING | HARDWARE PANIC | MAT'L DOOR | MAT'L FRAME | FINISH DOOR | FINISH FRAME | DETAILS SEE SHEET A5.2, U.N.O. HEAD | DETAILS JAMB | DETAILS SILL | GLAZING TYPE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101A | 3'-0" x 7'-2" | A | 1 3/4" | - | 1 | Y | Y | HM | HM | P | P | 5 | 5 | 4 | A | 7, 9, 10 |
| 101B | 3'-0" x 7'-2" | A | 1 3/4" | - | 2 | Y | Y | HM | HM | P | P | 8 | 5 | - | A | 8 |
| 103 | 3'-0" x 7'-2" | D | 1 3/4" | - | 3 | Y | - | WS | HM | PL | P | 8 | 8 | 9A | - | 4 |
| 104 | 3'-0" x 7'-2" | C | 1 3/4" | - | 4 | Y | - | WS | HM | PL | P | 8 | 8 | 9B | C | 4 |
| 105A | 3'-0" x 7'-2" | A | 1 3/4" | - | 5 | Y | Y | HM | HM | P | P | 6 | 6, 7 | 4 | A | 1, 7 |
| 105B | 3'-0" x 7'-2" | A | 1 3/4" | - | 6 | Y | - | HM | HM | P | P | 6 | 5, 6, 7 | 4 | A | - |
| 105C | 3'-0" x 7'-2" | A | 1 3/4" | - | 6 | Y | - | HM | HM | P | P | 6 | 5, 6, 7 | 4 | A | - |
| 105D | 3'-0" x 7'-2" | A | 1 3/4" | - | 6 | Y | - | HM | HM | P | P | 6 | 5, 6, 7 | 4 | A | - |
| 105E | 3'-0" x 7'-2" | A | 1 3/4" | - | 5 | Y | Y | HM | HM | P | P | 6 | 5, 6, 7 | 4 | A | 1, 7 |
| 106 | 3'-0" x 7'-2" | B | 1 3/4" | - | 7 | Y | - | WS | HM | PL | P | 8 | 5, 8 | 9B | C | - |
| 107 | 3'-0" x 7'-2" | B | 1 3/4" | - | 7 | Y | - | WS | HM | PL | P | 8 | 5, 8 | 9B | C | - |
| 108 | 3'-0" x 7'-2" | D | 1 3/4" | - | 8 | Y | - | WS | HM | PL | P | 8 | 8 | 9A | - | 2, 13 |
| 110 | 3'-0" x 7'-2" | D | 1 3/4" | - | 9 | Y | - | HM | HM | P | P | 6 | 6, 7 | 4 | - | 2, 11 |
| 111 | 3'-0" x 7'-2" | D | 1 3/4" | - | 8 | Y | - | WS | HM | PL | P | 8 | 8 | 9A | - | 2, 12 |
| 113 | 3'-0" x 7'-2" | D | 1 3/4" | - | 9 | Y | - | HM | HM | P | P | 6 | 6, 7 | 4 | - | 2, 11 |
| 114A | 3'-0" x 7'-2" | C | 1 3/4" | - | 10 | Y | Y | WS | HM | PL | P | 8 | 8 | 9B | C | 7 |
| 114B | 3'-0" x 7'-2" | C | 1 3/4" | - | 10 | Y | Y | WS | HM | PL | P | 8 | 8 | 9B | C | 7, 15 |
| 115 | 3'-0" x 7'-2" | C | 1 3/4" | - | 7 | Y | - | WS | HM | PL | P | 8 | 8 | 9B | C | 4 |
| 116 | 3'-6" x 7'-2" | D | 1 3/4" | - | 11 | Y | Y | HM | HM | P | P | 6 | 6, 7 | 4 | - | 30" x 18" TOP AND BOTTOM DOOR LOUVER |
| 117 | 3'-0" x 7'-2" | D | 1 3/4" | - | 12 | - | - | HM | HM | P | P | 6 | 6, 7 | 4 | - | 3, 14 |
| | SITE GATES | | | | | | | | | | | | | | | |
| G1 | 7'-0" x HEIGHT | - | - | - | SG1 | - | - | ST | ST | P | P | - | - | - | - | TOP TO MATCH TOP OF CMU CAP, SEE 2/A1.4. |
| G2 | 3'-0" x HEIGHT | E | - | - | SG2 | Y | - | ST | ST | P | P | - | - | - | - | TOP TO MATCH TOP OF CMU CAP, SEE 10/A1.4. |
| G3 | 29'-0" x HEIGHT | - | - | - | SG3 | - | - | ST | ST | P | P | - | - | - | - | ROLLING GATE, SEE 13/A1.4. |
| G4 | 3'-0" x HEIGHT | E | - | - | SG4 | Y | - | ST | ST | P | P | - | - | - | - | TOP TO MATCH TOP OF CMU CAP, SEE 11/A1.4. |
| G5 | 3'-0" x HEIGHT | E | - | - | SG4 | Y | - | ST | ST | P | P | - | - | - | - | TOP TO MATCH TOP OF CMU CAP, SEE 12/A1.4. |
| G6 | 39'-0" x HEIGHT | - | - | - | SG3 | - | - | ST | ST | P | P | - | - | - | - | ROLLING GATE, SEE 14/A1.4. |
| G7 | 9'-0" x HEIGHT | - | - | - | SG5 | - | - | ST | ST | P | P | - | - | - | - | TOP TO MATCH TOP OF CMU CAP, SEE 7/A1.4. |

MATERIAL/FINISH ABBREVIATIONS:

| | | |
|---|---|---|
| AL | = | ALUMINUM |
| AN | = | ANODIZED |
| FF | = | FACTORY FINISH |
| HM | = | HOLLOW METAL |
| P | = | PAINTED FINISH |
| PL | = | PLASTIC LAMINATE |
| ST | = | STEEL |
| TG | = | TEMPERED GLAZING |
| WV | = | WOOD, VENEER |
| WS | = | WOOD, SOLID CORE |
| Y | = | YES |

DOOR NOTES

1. ALL LANDINGS TO HAVE MAXIMUM 1:50 SLOPE (2% GRADIENT) IN ALL DIRECTIONS - ON EACH SIDE OF EACH DOOR. ALL THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT.
2. MAXIMUM FORCE TO OPERATE DOORS IS LIMITED TO 5-LB OF FORCE.
   EXCEPTION: REQUIRED FIRE DOORS MAY HAVE MIN. OPENING FORCE ALLOWED BY FIRE JURISDICTION, NOT TO EXCEED 15-LB OF FORCE.
3. DOORS WITH CLOSERS SHALL HAVE SWEEP PERIOD OF MIN. 3 SECONDS FROM 70-DEGREE OPENING POSITION UNTIL LEADING EDGE OF DOOR IS WITHIN 3 INCHES OF LATCH.
4. PROVIDE METAL TRIM NEAR BOTTOM OF DOOR JAMB AT ALL EXPOSED CONCRETE BASE (IE. APPARATUS ROOM) TO MAKE UP DIFFERENCE BETWEEN GYPSUM BOARD THICKNESS AND BARE CONCRETE BASE.
5. FIRE RATED GLAZING FOR FIRE RATED DOORS TO BE IN ACCORDANCE WITH CBC 2022, SECTION 716.2.5 AND TABLE 716.1(2).
6. FENESTRATIONS MUST HAVE TEMPORARY AND PERMANENT LABELS. (OVERALL U-FACTOR 0.30, SHGC 0.25, AND VT 0.50).

DOOR REMARKS

1. PUSHBUTTON/KEYPAD ACCESS
2. 24" x 18" BOTTOM DOOR LOUVER
3. 24" x 18" TOP AND BOTTOM DOOR LOUVER
4. 3/4" DOOR UNDERCUT ABOVE THRESHOLD, U.N.O.
5. 24" x 18" BOTTOM DOOR LOUVER AT EACH DOOR
6. 24" x 18" TOP AND BOTTOM DOOR LOUVER AT EACH DOOR
7. PROVIDE EXIT SIGN, SEE 9/A8.5.
8. PROVIDE EXIT ROUTE SIGN, SEE 9B/A8.5.
9. PROVIDE ACCESSIBILITY SIGN, SEE 13/A8.5.
10. PROVIDE NO SMOKING SIGN, SEE 8/A8.5.
11. PROVIDE UNISEX RESTROOM SIGNS, SEE 14/A8.5 AND 15/A8.5.
12. PROVIDE WOMEN'S RESTROOM SIGNS, SEE 6/A8.5 AND 7/A8.5.
13. PROVIDE MEN'S RESTROOM SIGNS, SEE 10/A8.5 AND 11/A8.5.
14. PROVIDE FIRE RISER SIGN, SEE 17/A8.5.
15. PROVIDE ASSISTIVE LISTENING SYSTEM SIGN, SEE 19/A8.5.

- (SIGNS SHALL BE MOUNTED PER DETAILS 2/A8.5 AND 3/A8.5).

## DOOR SCHEDULE AND NOTES

| # | WINDOW SIZE (WIDTH X HEIGHT) | TYPE | LABEL (MIN.) | GLAZING TYPE | GLAZING THICKNESS | FRAME MATERIAL | FRAME FINISH | DETAILS SEE SHEET A5.3, U.N.O. HEAD | DETAILS JAMB | DETAILS SILL | DETAILS OTHER | ROLLER SHADE TYPES | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 7'-4" x 11'-0" | W1 | - | A | 1" | HM | P | 1 | 1, 2, 3 | 4 | - | - | - |
| A1 | 7'-4" x 7'-4" | W2 | - | A | 1" | HM | P | 6 | 6 | 7 | - | - | - |
| B | 4'-0" x 4'-0" | W3 | - | A | 1" | HM | P | 1 | 1 | 5 | - | 1 | - |
| C | 2'-8" x 1'-4" | W4 | - | A | 1" | HM | P | 5 | 5 | 5 | - | - | FROSTED GLASS @ ROOM 103 |
| D | 4'-8" x 4'-0" | W5 | - | A | 1" | HM | P | 5 | 5 | 5 | - | 1 | - |
| E | 1'-4" x 1'-4" | W6 | - | A | 1" | HM | P | 1 | 1 | 1 | - | - | - |
| E1 | 1'-4" x 1'-4" | W6 | - | C | 1" | HM | P | 6 | 6 | 6 | - | - | - |
| F | 5'-4" x 7'-4" | W7 | - | A | 1" | HM | P | 1 | 1, 2 | 4 | - | - | - |
| F1 | 5'-4" x 7'-4" | W7 | - | C | 1" | HM | P | 6 | 6 | 7 | - | - | - |
| G | 2'-0" x 3'-4" | W8 | - | A | 1" | HM | P | 9 | 9 | 9 | - | - | - |
| G1 | 2'-0" x 3'-4" | W8 | - | A | 1" | HM | P | 1 | 1 | 1 | - | - | - |
| H | 2'-0" x 2'-0" | W9 | - | A | 1" | HM | P | 9 | 9 | 9 | - | - | - |

MATERIAL/FINISH ABBREVIATIONS:

| | | |
|---|---|---|
| AL | = | ALUMINUM |
| AN | = | ANODIZED |
| FF | = | FACTORY FINISH |
| HM | = | HOLLOW METAL |
| P | = | PAINTED FINISH |
| PL | = | PLASTIC LAMINATE |
| ST | = | STEEL |
| TG | = | TEMPERED GLAZING |
| WV | = | WOOD, VENEER |
| WS | = | WOOD, SOLID CORE |
| Y | = | YES |

GLAZING TYPES:

TYPE A: INSULATED, 1" THICK, TINTED TEMPERED OUTER PANE, CLEAR TEMPERED INNER PANE, LOW E COATING ON SURFACE 2
TYPE AO: INSULATED, 1" THICK, TINTED TEMPERED OUTER PANE, OBSCURED TEMPERED INNER PANE, LOW E COATING ON SURFACE 2
TYPE B: TEMPERED, TINTED, 1/4" THICK, U.N.O.
TYPE C: TEMPERED, CLEAR, 1/4" THICK, U.N.O.
TYPE F: FIRE RATED SAFETY GLASS

ROLLER SHADE TYPES:

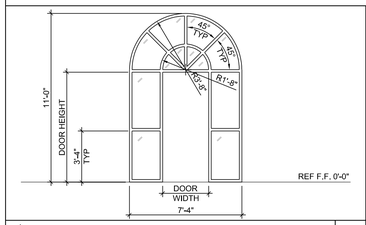
TYPE 1: MANUAL SINGLE SHADE
TYPE 2: MANUAL DOUBLE SHADE (W/ BLACK-OUT SHADE @ ALL DORMITORIES)
TYPE 3: MOTORIZED SINGLE SHADE

NOTE: ROLLER SHADE SHALL COVER ALL GLAZING AREAS

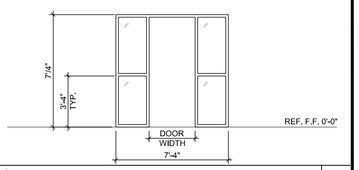
WINDOW NOTES:

1. FENESTRATIONS MUST HAVE TEMPORARY AND PERMANENT LABELS (OVERALL U-FACTOR 0.30, SHGC 0.25, AND VT 0.50).
2. FIRE RATED GLAZING FOR FIRE RATED WINDOWS TO BE IN ACCORDANCE WITH CBC 2022, TABLE 716.1(3) AND SECTION 716.1.2.3.1.

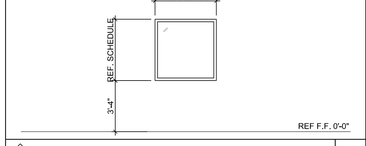
## WINDOW SCHEDULE AND NOTES



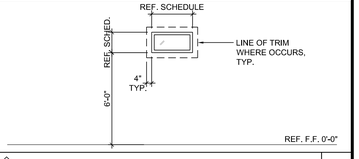

A W1



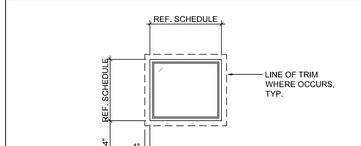

A1 W2



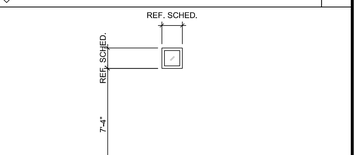

B W3



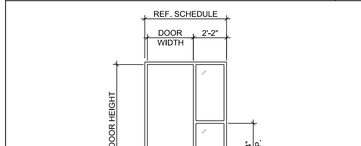

C W4



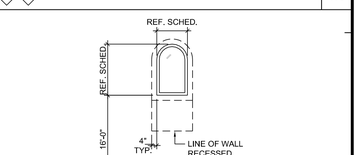

D W5



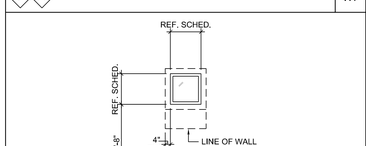

E E1 W6




F F1 W7




G G1 W8



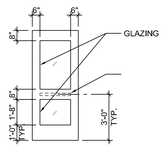

H W9

## WINDOW TYPES

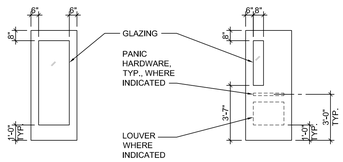
NOTES:

1. ALL LOUVERS TO HAVE 50% FREE AREA.
2. FOR TYPICAL FRAME PROFILE, SEE DETAIL 1/A5.2.
3. FOR TYPICAL DOOR ANCHORAGE, SEE DETAIL 2/A5.2.
4. FOR RUSH PLATE AND KICK PLATE INFORMATION, SEE DETAIL 3/A5.2.
5. FOR TYPICAL FRAMING AT DOOR, SEE DETAIL 10/A5.2.

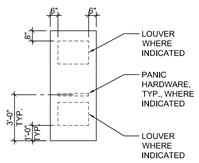
5



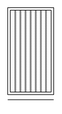

TYPE A




TYPE B TYPE C




TYPE D



TYPE E

## DOOR TYPES

**RANCHO CUCAMONGA**
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

# FONTANA FIRE STATION No. 80 & TRAINING CENTER

**SAN BERNARDINO COUNTY FIRE DEPARTMENT**
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY HERSCHAM
C-19064
Re Dte: 03/31/27
STATE OF CALIFORNIA

**CONSULTANT**

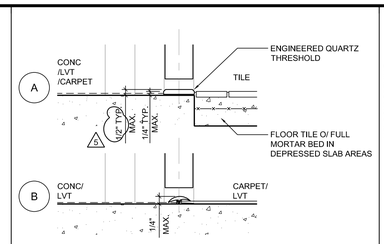
| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| # | | | REVISIONS |

| | | | |
|---|---|---|---|
| DRAWN: | JM | CHECKED: | KN |
| DATE: | 09/25/2025 | SCALE: | AS NOTED |
| PROJECT NUMBER: | W2100100AR | | |

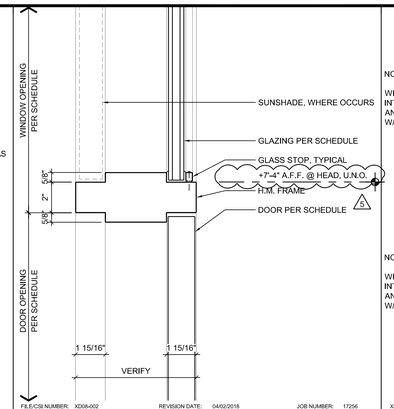
DOOR, WINDOW & FINISH SCHEDULES

DRAWING NUMBER: A5.1

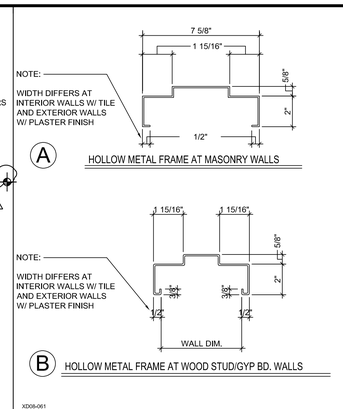
BID SET_ADDENDUM 5




FILE/CSI NUMBER: XD08-052_20B REVISION DATE: 08/21/2023 JOB NUMBER:

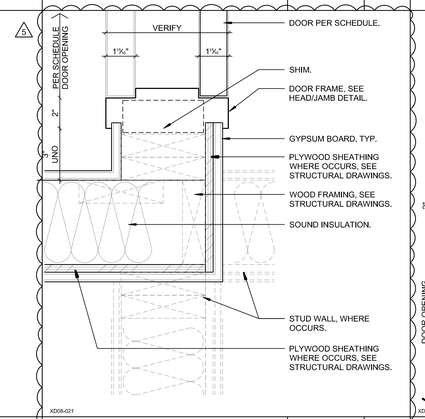



FILE/CSI NUMBER: XD08-002 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

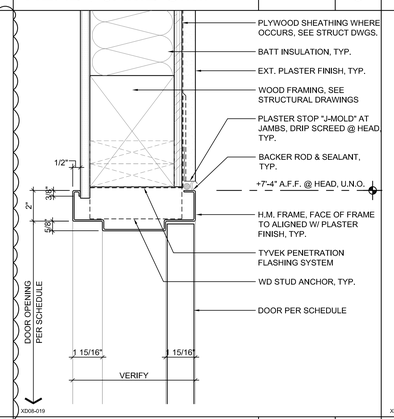



XD08-061

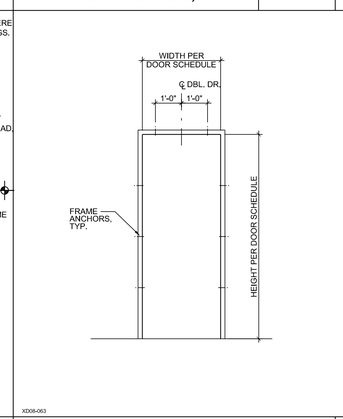
| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 21 | | | 17 | | | 13 | INTERIOR THRESHOLDS | 3"=1'-0" | 9 | HEAD / JAMB SIM. | 3"=1'-0" | 5 | FRAME PROFILE, TYP. | 3"=1'-0" | 1 |
| | | 22 | | | 18 | | | 14 | TYP. FRAMING @ DOOR | 3"=1'-0" | 10 | EXT. DOOR HEAD / JAMB SIM. | 3"=1'-0" | 6 | DOOR ANCHORAGE, TYP. | NTS | 2 |
| | | 23 | | | 19 | | | 15 | | | 11 | EXT. DOOR HEAD / JAMB SIM. | 3"=1'-0" | 7 | KICK / PUSH PLATES | 1"=1'-0" | 3 |
| | | 24 | | | 20 | | | 16 | | | 12 | INT. HEAD / JAMB SIM. | 3"=1'-0" | 8 | EXTERIOR THRESHOLD | 3"=1'-0" | 4 |



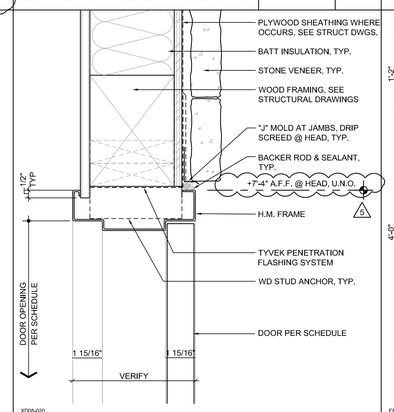

XD08-021



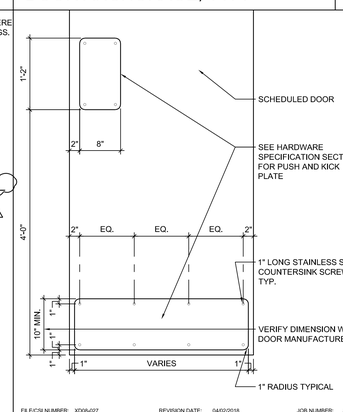

XD08-019



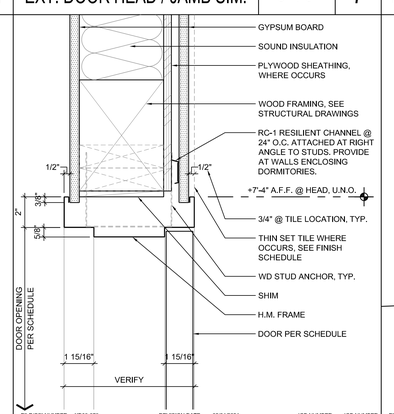

XD08-063



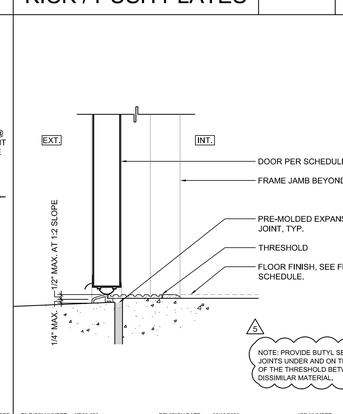

XD08-020




FILE/CSI NUMBER: XD08-027 REVISION DATE: 04/02/2018 JOB NUMBER: JOB NUMBER




FILE/CSI NUMBER: XD08-075 REVISION DATE: 02/04/2021 JOB NUMBER: JOB NUMBER



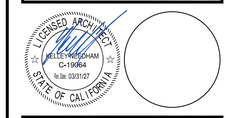

FILE/CSI NUMBER: XD08-025 REVISION DATE: 09/19/2025 JOB NUMBER: JOB NUMBER


PBK

**RANCHO CUCAMONGA**
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

**SAN BERNARDINO COUNTY FIRE DEPARTMENT**
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue




**CONSULTANT**

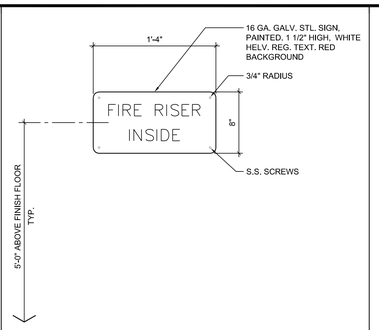
| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| # | REVISIONS | | |

| | |
|---|---|
| **DRAWN:** JM | **CHECKED:** KN |
| **DATE:** 09/25/2025 | **SCALE:** AS NOTED |
| **PROJECT NUMBER:** W2100100AR | |

## DOOR DETAILS

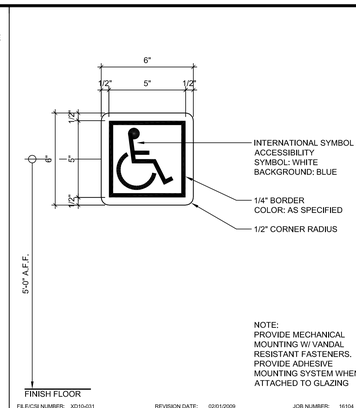
**DRAWING NUMBER:** A5.2

BID SET_ADDENDUM 5



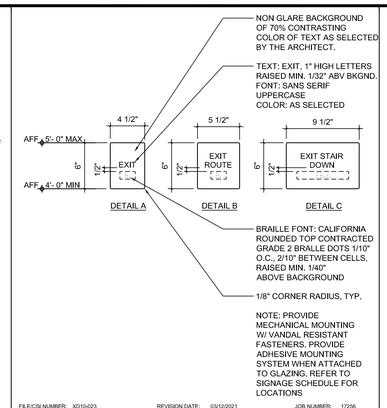

FILE/CSI NUMBER: XD10-040 REVISION DATE: 03/12/2021 JOB NUMBER: 09200

| | | 21 | FIRE RISER ROOM SIGNAGE | 1 1/2"=1'-0" | 17 |
|---|---|---|---|---|---|



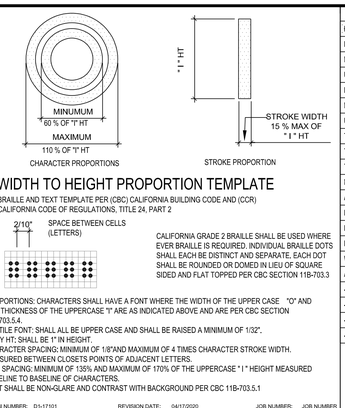

FILE/CSI NUMBER: XD10-031 REVISION DATE: 02/01/2009 JOB NUMBER: 16104

| | | 13 | ACCESSIBILITY SIGNAGE | 3"=1'-0" | 13 |
|---|---|---|---|---|---|




FILE/CSI NUMBER: XD10-023 REVISION DATE: 03/12/2021 JOB NUMBER: 17256

| | | 9 | EXIT SIGNAGE | 1 1/2"=1'-0" | 9 |
|---|---|---|---|---|---|




FILE/CSI NUMBER: D1-17101 REVISION DATE: 04/17/2020 JOB NUMBER: JOB NUMBER

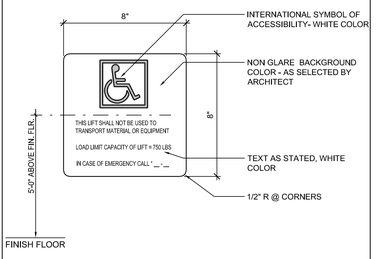
| | | 5 | SIGNAGE TEMPLATES | FULL | 5 |
|---|---|---|---|---|---|

| ITEM DESCRIPTION | DETAIL | LOCATION |
|---|---|---|
| FEMALE RESTROOM DOOR SYMBOL | 6- | ALL FEMALE RESTROOM DOORS |
| MALE RESTROOM DOOR SYMBOL | 10- | ALL MALE RESTROOM DOORS |
| UNISEX RESTROOM DOOR SYMBOL | 14- | ALL SINGLE USE RESTROOM DOORS |
| FEMALE RESTROOM WALL SIGN | 7- | ALL FEMALE RESTROOMS |
| MALE RESTROOM WALL SIGN | 11- | ALL MALE RESTROOMS |
| UNISEX RESTROOM WALL SIGN | 15- | ALL SINGLE USE RESTROOMS |
| TACTILE EXIT SIGNAGE A (EXIT) | 9A- | ALL EXTERIOR EXIT DOORS |
| TACTILE EXIT SIGNAGE B (EXIT ROUTE) | 9B- | ALL HALLWAY EXIT DOORS AND/OR AS NOTED |
| TACTILE EXIT SIGNAGE C (EXIT STAIR DOWN) | 9C- | ALL EXIT STAIRS |
| NO SMOKING SIGNAGE | 8- | ALL MAIN EXTERIOR BUILDING ENTRY |
| ACCESSIBILITY SIGNAGE | 13- | PUBLIC EXTERIOR BUILDING ENTRY |
| ROOM CONTROL SIGNAGE | 12- | ALL INTERIOR AND EXTERIOR ROOMS |
| DEDICATION PLAQUE | 16- | FRONT ENTRY, VERIFY LOCATION |
| FIRE RISER ROOM SIGNAGE | 17- | ROOM 117 |
| WHEEL CHAIR LIFT SIGN | 18- | ROOM 114 |
| ASSISTIVE LISTENING DEVICE SIGN | 19- | ROOM 114 |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

NOTES
1. REFER TO DETAIL 2/- AND 3/- FOR MOUNTING
2. REFER TO DETAIL 4/- AND 5/- FOR BRAILLE TEMPLATE
3. AT GLAZING WHERE BACKING WILL BE EXPOSED ON THE REVERSE SIDE, PROVIDE AN OPAQUE STICKER TO THE GLAZING BEFORE MOUNTING WITH ADHESIVE

FILE/CSI NUMBER: XD10-034 REVISION DATE: 04/20/2020 JOB NUMBER: JOB NUMBER

| | | 1 | SIGNAGE SCHEDULE | N.T.S. | 1 |
|---|---|---|---|---|---|

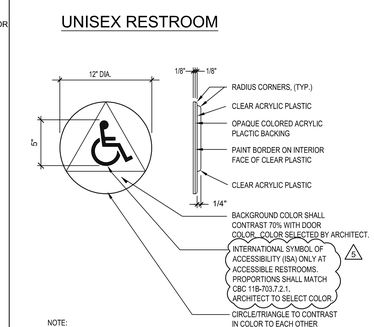



NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. LOCATE ONE SIGN AT EACH LEVEL THAT WHEEL CHAIR LIFT SERVES. TEXT SHALL BE AT LEAST 1/2" IN HEIGHT IN FONT STYLE AS SELECTED.

* INFORMATION TO BE PROVIDED BY OWNER AND INCLUDED AS PART OF SIGN

FILE/CSI NUMBER: XD10-004 REVISION DATE: 08/28/2023 JOB NUMBER: JOB NUMBER

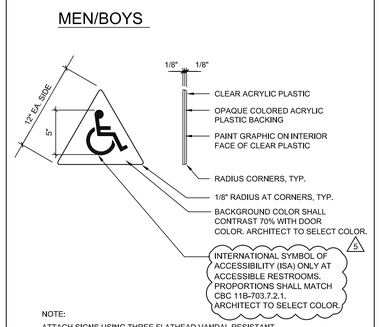
| | | 22 | WHEEL CHAIR LIFT SIGN | 3"=1'-0" | 18 |
|---|---|---|---|---|---|




NOTE:
ATTACH SIGN USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGN SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN. FLOOR LINE TO CENTER OF SIGN.

FILE/CSI NUMBER: XD10-015 REVISION DATE: 02/23/2009 JOB NUMBER: JOB NUMBER

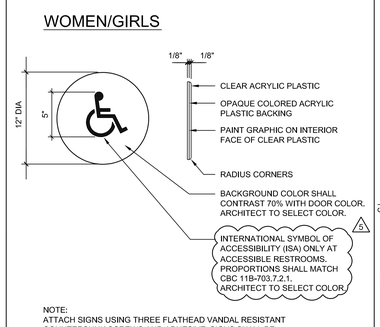
| | | 14 | RESTROOM SYMBOL | 1 1/2"=1'-0" | 14 |
|---|---|---|---|---|---|




NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO CENTER OF SIGN. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-07101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

| | | 10 | RESTROOM SYMBOL | 1 1/2"=1'-0" | 10 |
|---|---|---|---|---|---|

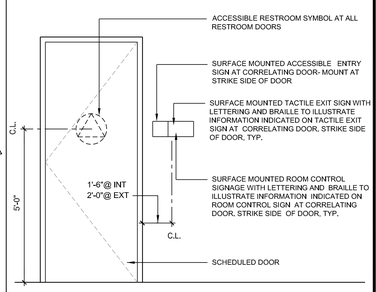



NOTE:
ATTACH SIGNS USING THREE FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE CENTERED ON THE DOOR AND MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO CENTER OF SIGN. REFER TO SIGNAGE SCHED FOR LOCATIONS.

FILE/CSI NUMBER: D1-03101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

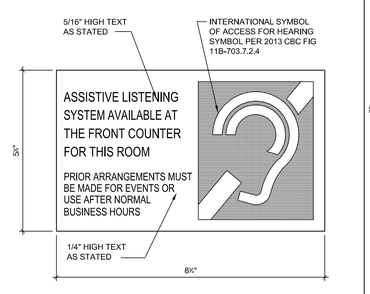
| | | 6 | RESTROOM SYMBOL | 1 1/2"=1'-0" | 6 |
|---|---|---|---|---|---|

NOTE:
AT ALL DOUBLE DOORS LOCATE SIGNAGE ADJACENT TO JAMB OF INACTIVE LEAF OF DOOR PAIR. PROVIDE 90 DEGREE INHIBITOR TYPE CLOSER ON INACTIVE DOOR.




FILE/CSI NUMBER: XD10-017 REVISION DATE: 02/23/2009 JOB NUMBER: 0518000

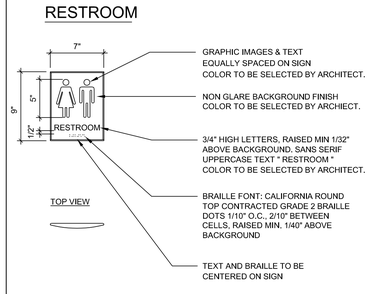
| | | 2 | SIGN MOUNTING DETAIL | 1/2"=1'-0" | 2 |
|---|---|---|---|---|---|




NOTE: PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT COUNTERSUNK FASTENERS AND ADHESIVE SEE TO SIGNAGE SCHEDULE FOR LOCATIONS.

FILE/CSI NUMBER: XD10-005 REVISION DATE: 08/28/2023 JOB NUMBER: JOB NUMBER

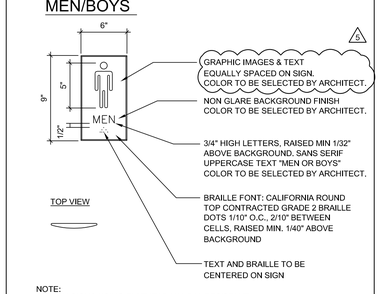
| | | 23 | ASSISTIVE LISTENING DEVICE SIGN | HALF | 19 |
|---|---|---|---|---|---|




NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR PER 11B-703.4.1. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-121010 REVISION DATE: 04/17/2020 JOB NUMBER: JOB NUMBER

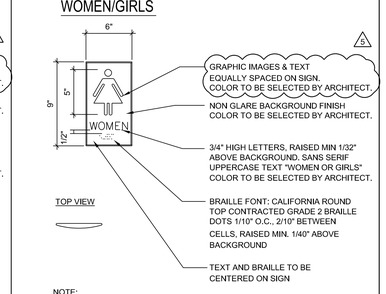
| | | 15 | WALL MTD RESTRM SIGN | 1 1/2"=1'-0" | 15 |
|---|---|---|---|---|---|




NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR PER 11B-703.4.1. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-08101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

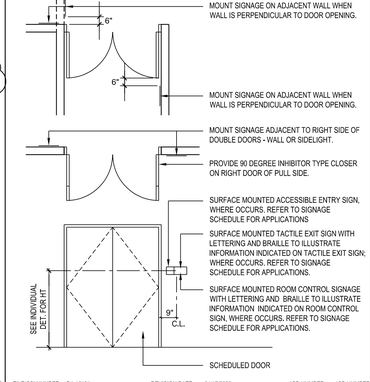
| | | 11 | WALL MTD RESTRM SIGN | 1 1/2"=1'-0" | 11 |
|---|---|---|---|---|---|




NOTE:
ATTACH SIGNS USING FLATHEAD VANDAL RESISTANT COUNTERSUNK SCREWS AND ADHESIVE. SIGNS SHALL BE MOUNTED 5'-0" ABOVE FIN FLOOR LINE TO THE CENTERLINE OF THE SIGN ON THE STRIKE SIDE OF THE DOOR PER 11B-703.4.1. REFER TO SIGNAGE SCHED. FOR LOCATIONS.

FILE/CSI NUMBER: D1-04101 REVISION DATE: 03/12/2021 JOB NUMBER: JOB NUMBER

| | | 7 | WALL MTD RESTRM SIGN | 1 1/2"=1'-0" | 7 |
|---|---|---|---|---|---|




FILE/CSI NUMBER: D1-15101 REVISION DATE: 04/17/2020 JOB NUMBER: JOB NUMBER

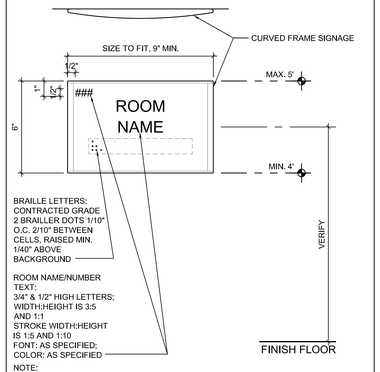
| | | 3 | SIGNAGE MOUNTING DETAIL | 1/4"=1'-0" | 3 |
|---|---|---|---|---|---|




NOTE: COORDINATE FINAL LOCATION WITH OWNER.

FILE/CSI NUMBER: XD10-011 REVISION DATE: 08/28/2023 JOB NUMBER: JOB NUMBER

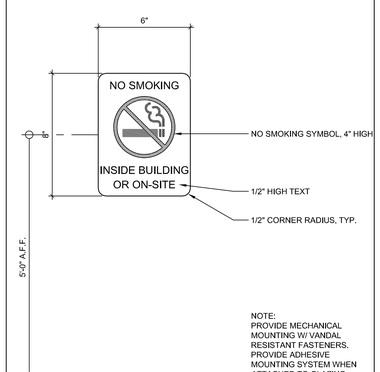
| | | 16 | DEDICATION PLAQUE | 1 1/2"=1'-0" | 16 |
|---|---|---|---|---|---|




NOTE:
PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.

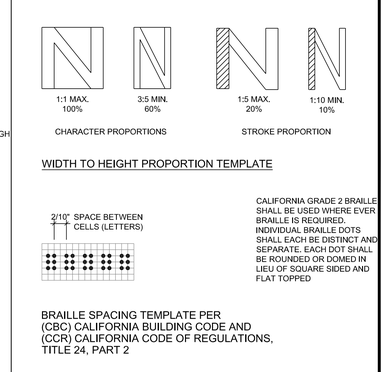
FILE/CSI NUMBER: XD10-021_B REVISION DATE: 02/01/2009 JOB NUMBER: 16104

| | | 12 | ROOM CONTROL SIGNAGE | 3'=1'-0" | 12 |
|---|---|---|---|---|---|




FILE/CSI NUMBER: XD10-032 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

| | | 8 | NO SMOKING SIGNAGE | 3"=1'-0" | 8 |
|---|---|---|---|---|---|




FILE/CSI NUMBER: XD10-035 REVISION DATE: 04/02/2018 JOB NUMBER: 17256

| | | 4 | SIGNAGE TEMPLATES | FULL | 4 |
|---|---|---|---|---|---|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# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
MILES WEISSHAM
C-19064
exp. date: 03/31/27
STATE OF CALIFORNIA

CONSULTANT

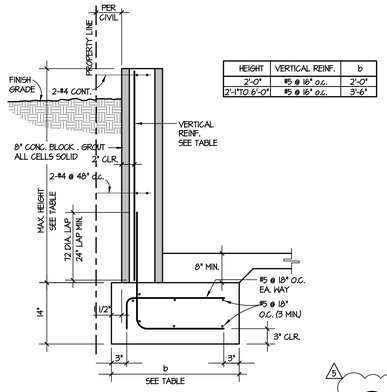
| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| #1 | | | REVISIONS |

DRAWN: JM | CHECKED: KN
DATE: 09/25/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

SIGNAGE DETAILS

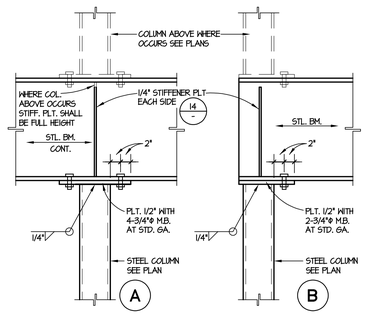
DRAWING NUMBER: A8.5

BID SET_ADDENDUM 5



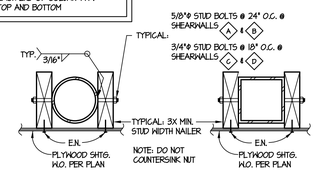

| HEIGHT | VERTICAL REINF. | b |
|---|---|---|
| 2'-0" | #5 @ 16" O.C. | 2'-0" |
| 2'-1"TO 6'-0" | #5 @ 16" O.C. | 3'-6" |

RETAINING WALL DETAIL (PROPERTY LINE CONDITION) 17
SCALE: N.T.S.

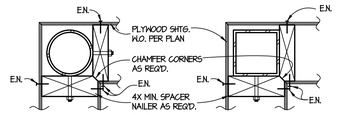



TYPICAL COLUMN TO BEAM DETAILS 13
SCALE: N.T.S.

NOTE:
1. DO NOT COUNTERSINK NUT
2. LOCATE FIRST STUD WITHIN 6" OF EACH END OF COLUMN TYP. TOP AND BOTTOM



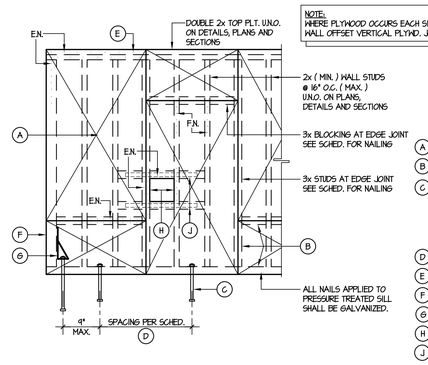

STUD WALL CONDITION




PIPE COLUMN HSS COLUMN

CORNER CONDITION

TYPICAL WOOD NAILER TO COLUMN DETAIL 9
SCALE: N.T.S.



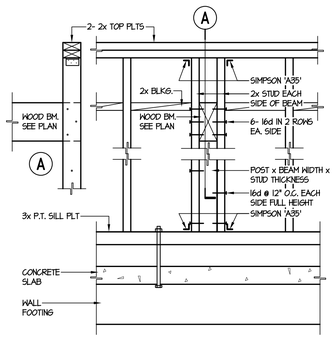

NOTE:
WHERE PLYWOOD OCCURS EACH SIDE OF WALL OFFSET VERTICAL PLYWD. JOINTS

**SHEARWALL SCHEDULE**
STRUCTURAL 1

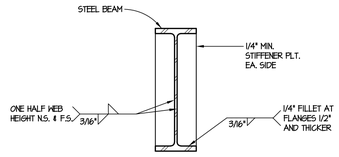
| TYPE. | NAILING | | A.B. SPACING | ALLOWABLE SHEAR |
|---|---|---|---|---|
| | EDGE | FIELD | | |
| A | 10d @ 6" O.C. | 10d @ 12" O.C. | 42" O.C. | 340#/FT. |
| B | 10d @ 4" O.C. | 10d @ 12" O.C. | 28" O.C. | 510#/FT. |
| C | 10d @ 3" O.C. STAGG. | 10d @ 12" O.C. | 21" O.C. | 665#/FT. |
| D | 10d @ 2" O.C. STAGG. | 10d @ 12" O.C. | 16" O.C. | 870#/FT. |

(A) ALL PLYWOOD TO BE 1/2" STRUCTURAL 1 SEE NOTES ON S0.1
(B) PROVIDE 3x ( MIN. ) MEMBERS AT ALL ADJOINING PANEL EDGE AND SILLS. WHERE PLYWOOD OCCURS BOTH SIDES OFFSET VERTICAL PLYWOOD JOINTS.
(C) ANCHOR BOLTS TO BE 5/8"ø W/2" MIN. SEE SHEARWALL SCHEDULE FOR SPACING. PROVIDE 2 BOLTS PER PANEL MIN. PROVIDE SIMPSON "BPS" 5/8-3 AT ALL ANCHOR BOLTS AT 4" NOMINAL WIDE SILL PLATES. PROVIDE SIMPSON "BPS" 5/8-6 AT ALL 6" NOMINAL WIDE SILL PLATES. A CUT WASHER SHALL BE UTILIZED BETWEEN THE NUT AND THE TOP OF THE SLOTTED WASHER. THE WASHER SHALL BE POSITIONED SUCH THAT THE EDGE OF THE PLATE WASHER IS WITHIN 1/2" OF THE SHEATHED EDGE OF THE SILL PLATE. WHERE PLYWOOD OCCURS EACH SIDE OF THE WALL, THE WASHER SHALL BE PLACED WITHIN 1/2" OF EACH FACE OF SILL PLATE.
(D) REDUCE SPACING BY 1/2 WHERE SHEARWALL OCCURS BOTH SIDES
(E) STAGGER NAILS FOR TYPE 'C' AND 'D' SHEARWALLS @ DOUBLE TOP PLATES
(F) 4x MIN. POST @ HOLD DOWN LOCATIONS. U.N.O. ON PLANS, DETAILS OR SECTIONS
(G) HOLD DOWN, SEE PLAN FOR TYPE AND (7 / S02) FOR INSTALLATION
(H) 14 1/2" SQUARE MAX. OPENING. (STUDS SHALL NOT BE CUT UNLESS SPECIFICALLY DETAILED)
(J) PROVIDE SIMPSON LSTA36" ABOVE AND BELOW OPENINGS AT SHEARWALL TYPES 'C' AND 'D' AND ALL DOUBLE SIDED.

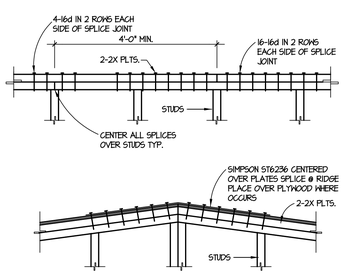
TYPICAL PLYWOOD SHEARWALL DETAIL 1
SCALE: N.T.S.



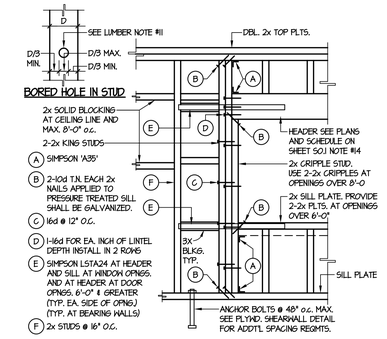

WOOD BEAM TO WALL DETAIL 18
SCALE: N.T.S.



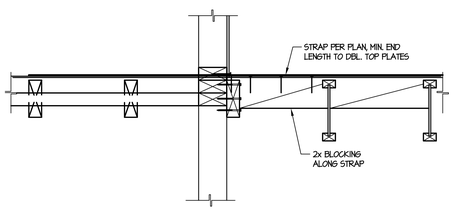

TYPICAL STIFFENER PLATE DETAIL 14
SCALE: N.T.S.



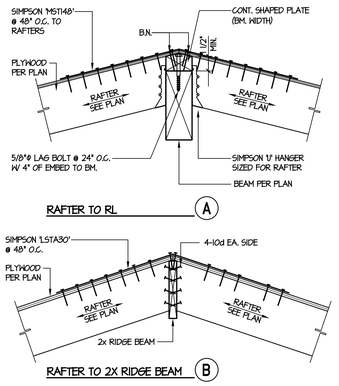

TYPICAL MINIMUM PLATE SPLICE DETAIL 6
SCALE: N.T.S.



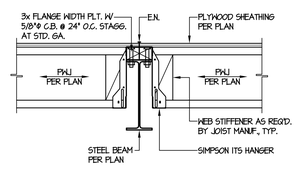

TYPICAL STUD WALL FRAMING DETAIL 2
SCALE: N.T.S.



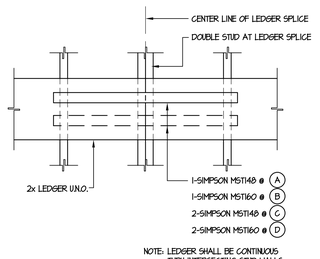

DRAG DETAIL 19
SCALE: N.T.S.



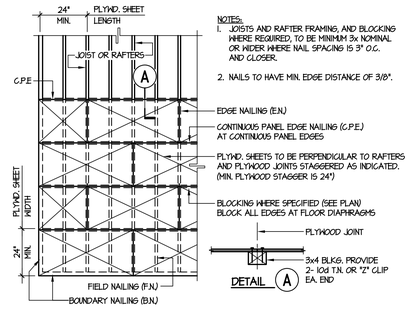

TYPICAL RIDGE BEAM AND RIDGE BOARD 15
SCALE: N.T.S.




TYPICAL RAFTER TO STEEL BEAM DETAIL 11
SCALE: N.T.S.

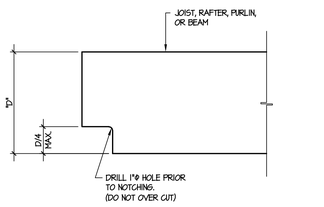



TYPICAL LEDGER SPLICE DETAIL 7
SCALE: N.T.S.

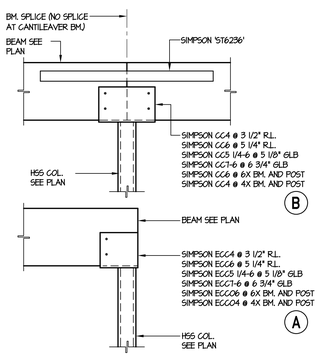



NOTES:
1. JOISTS AND RAFTER FRAMING, AND BLOCKING WHERE REQUIRED, TO BE MINIMUM 3x NOMINAL OR WIDER WHERE NAIL SPACING IS 3" O.C. AND CLOSER.
2. NAILS TO HAVE MIN. EDGE DISTANCE OF 3/8".

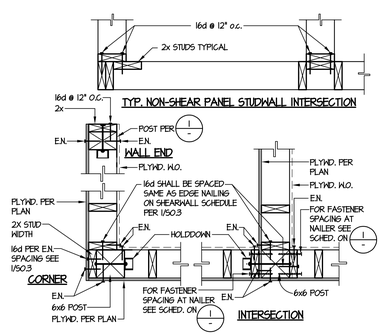
TYP. PLYWOOD DIAPHRAGM SHEATHING DETAIL 3
SCALE: N.T.S.




TYPICAL NOTCHING DETAIL 16
SCALE: N.T.S.




TYPICAL BEAM TO STEEL COLUMN 12
SCALE: N.T.S.




TYPICAL SHEARWALL INTERSECTIONS 4
SCALE: N.T.S.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# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM C-19064 — re:ae 03/31/27 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — Rick W. Byrd — No. S3350 — Exp. 3/31/26 — STRUCTURAL — STATE OF CALIFORNIA


CONSULTANT
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Ontario, CA 91762
MI23390021.00
T: (833) 270-8648
miyamotointernational.com


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
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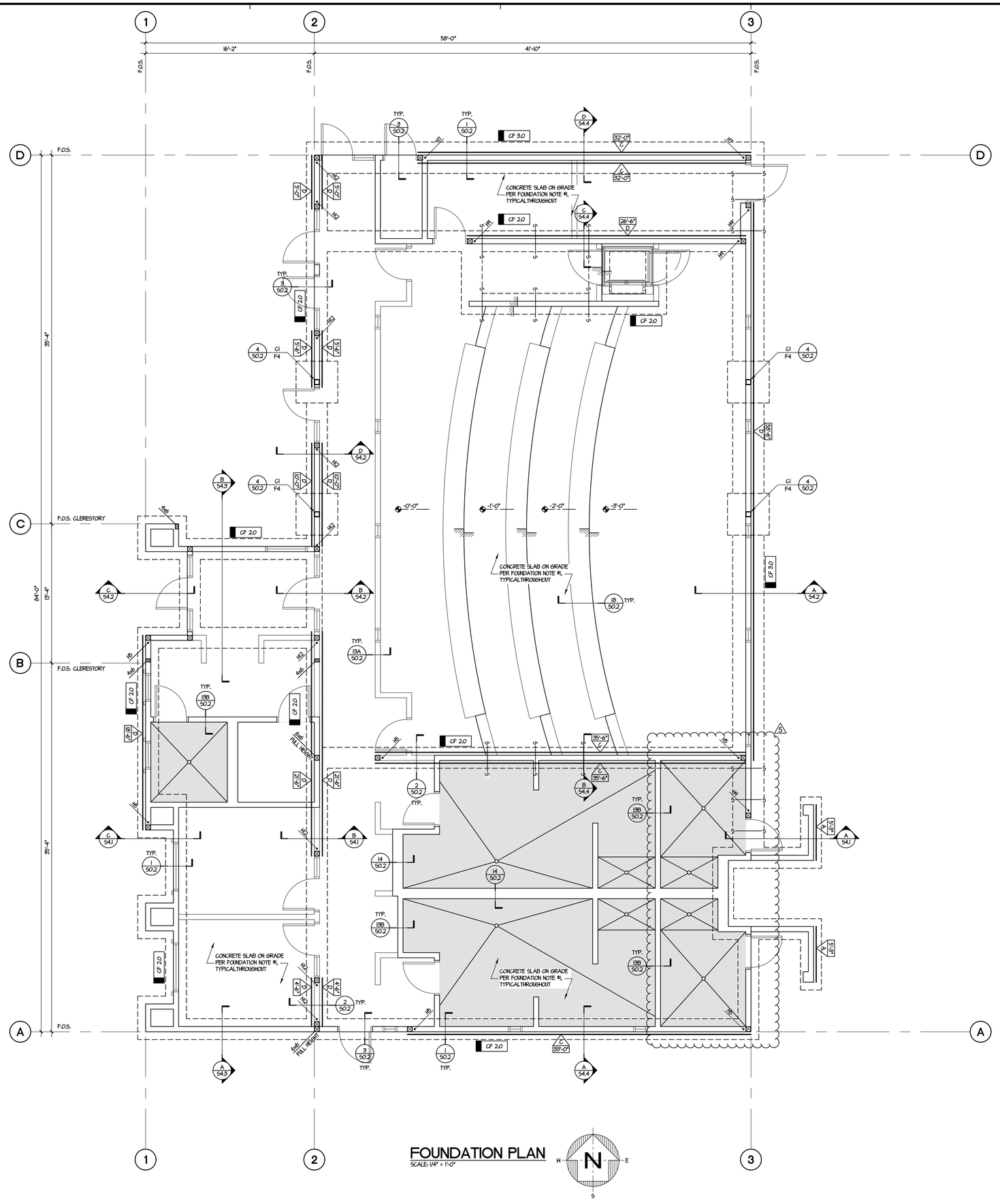
| 4 | REVISIONS | | |

| | | | |
|---|---|---|---|
| DRAWN: | JA | CHECKED: | RB |
| DATE: | 05/11/2025 | SCALE: | AS NOTED |
| PROJECT NUMBER: | W2100100AR | | |

WOOD FRAMING DETAILS

DRAWING NUMBER: S0.3

BID SET_ADDENDUM 5




## FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

## FOUNDATION PLAN NOTES

1. 5" THK. CONC. SLAB W/ #4 @ 18" O.C. E.W. @ MID. SLAB OVER 15 MIL. VAPOR BARRIER OVER 2" CLEAN SAND OVER 4" AGGREGATE BASE PER SPECIFICATIONS AND DETAILS.
2. ALL EXTERIOR WALLS AND PARAPETS WHICH ARE NOT ALREADY INDICATED AS SHEAR WALLS SHALL RECEIVE PLYWOOD AND NAILING PER SHEAR WALL TYPE 'A'
   - DENOTES SHEARWALL TYPE SEE (1/S03)
   - DENOTES MIN. SHEARWALL LENGTH.

   (NOTE: PLYWD. SHALL EXTEND FULL LENGTH OF WALL AT INTERIOR SHEAR WALLS AS REQ'D FOR FLUSH FINISH)
3. SEE ARCH. DWG'S FOR ALL DIMENSIONS NOT SHOWN AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS
4. TYPICAL FOUNDATION FORMING DETAILS PER (1/S01)
5. STEP FOOTINGS PER TYPICAL STEP FOOTING DETAIL (2/S01)
6. FRAMING AT OPENINGS PER TYP. STUD WALL FRAMING DETAIL (2/S03)
7. H(9) DENOTES HOLD DOWN AND HOLD DOWN SIZE. FOR TYPICAL HOLD DOWN DETAIL SEE (7/S02) WIDEN FOOTING AS REQD. BY (7/S02) IN THE VICINITY OF H.D. BOLTS
8. STEP FOOTINGS AT PLUMBING LINES PER (3/S01)
9. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE
10. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOIL ENGINEER SHALL INSPECT AND APPROVE THE FOUNDATION EXCAVATIONS.
11. HOLD DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
12. VERIFY ALL CURB HEIGHTS WITH ARCHITECTURAL DRAWINGS.
13. SHADED AREA INDICATES EXTENTS OF SLAB DEPRESSION PER PLAN, VERIFY WITH ARCHIT. DRAWINGS.
14. 4" HIGH CONC. HOUSE KEEPING PAD, SEE (11/S02)

## CONTINUOUS FOOTING SCHEDULE

| MARK | WIDTH | THICK | REINFORCEMENT |
|---|---|---|---|
| CF2.0 | 2'-0" | 2'-0" | 2- #5 TOP & BOTTOM |
| CF3.0 | 3'-0" | 2'-0" | 2- #5 TOP & 4- #5 BOTT. W/ #4 TRANSVERSE @ 24" O.C. BOTT. |

## PAD FOOTING SCHEDULE

| MARK | SIZE | REINFORCEMENT |
|---|---|---|
| F4 | 4'-0" x 4'-0" x 1'-6" | 4- #5 EACH WAY |
| | | |

## COLUMN SCHEDULE

| MARK | COLUMN SIZE | BASE PLT. | WELD SIZE | SIZE & NO. OF A.B. U.N.O. |
|---|---|---|---|---|
| C1 | HSS 4x4x1/4 | 3/4" THICK | 3/16" | 4- 3/4" x 12" LONG |
| | | | | |


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM, C-19064, Is/a: 03/31/27, STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — RCE 82 Exp. 12/31/26 — STRUCTURAL — STATE OF CALIFORNIA


CONSULTANT
miyamoto.
1047 West Sixth Street, Suite A
Ontario, CA 91762
M23280021.00
T: (833) 270-8648
miyamotointernational.com


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
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| # | REVISIONS | | |

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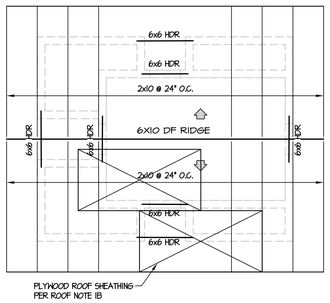
|---|---|---|---|
| DRAWN: | JA | CHECKED: | RB |
| DATE: | 05/11/2025 | SCALE: | AS NOTED |
| PROJECT NUMBER: | W2100100AR | | |

FOUNDATION PLAN

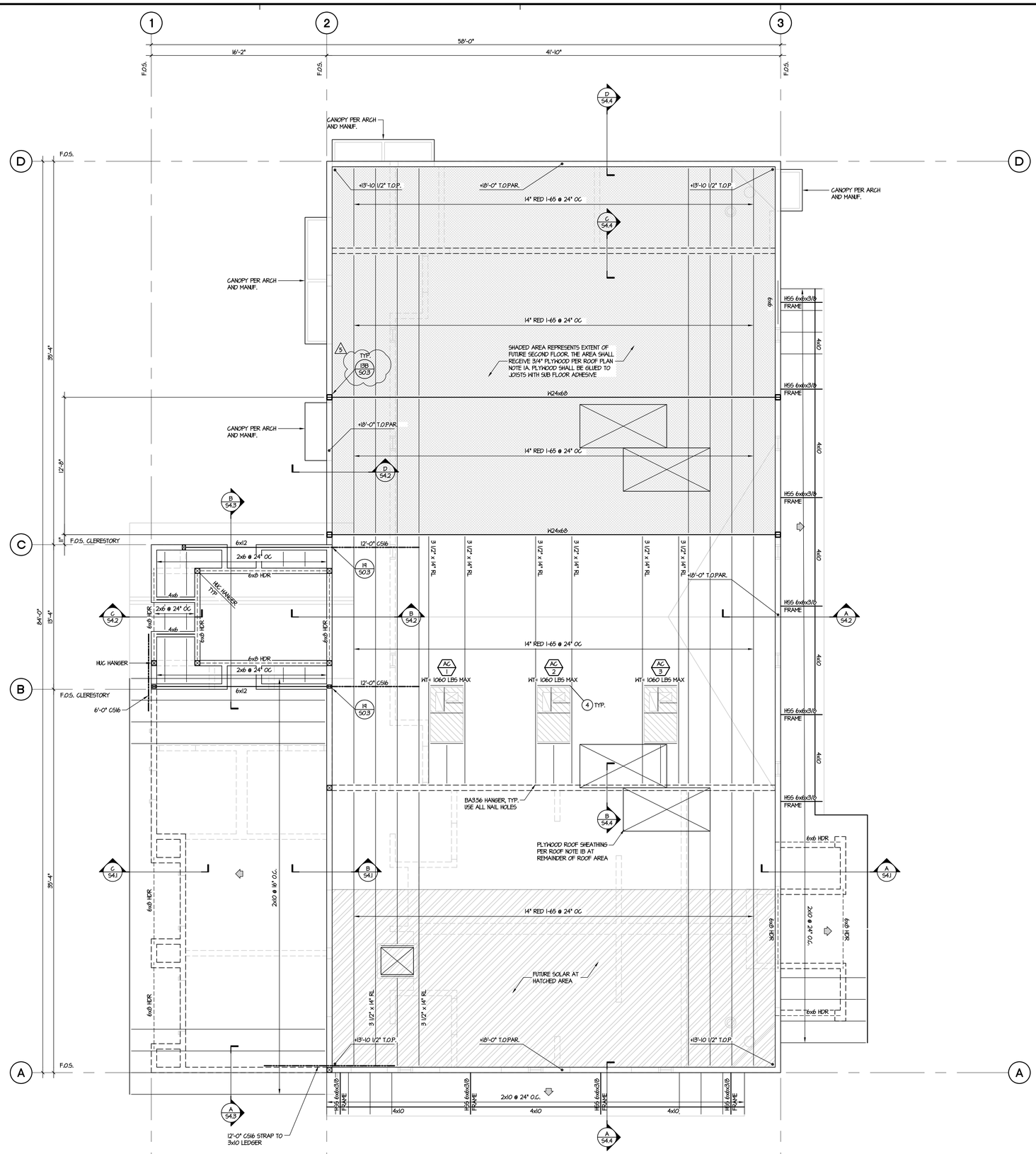
DRAWING NUMBER: S1.1

BID SET_ADDENDUM 5




## CLERESTORY ROOF PLAN

SCALE: 1/4" = 1'-0"




## ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

## ROOF FRAMING PLAN NOTES

1A. 3/4" STRUCT. I-PLYWOOD W/
10d @ 4" O.C. B.N.
10d @ 6" O.C. E.N.
10d @ 12" O.C. F.N.
BLOCK ALL EDGES TYP. SEE 3/503

1B. 5/8" STRUCT. I-PLYWOOD W/
10d @ 4" O.C. B.N.
10d @ 6" O.C. E.N.
10d @ 12" O.C. F.N.
BLOCK ALL EDGES TYP. SEE 3/503

2. ALL RAFTERS AND BEAMS DESIGNATED AS (STRUT) SHALL RECEIVE 2 ROWS (E.N.) EDGE NAILING AT TOP STAGGERED.

3. ALL (T.O.P.) TOP OF PLYWOOD HEIGHTS AND (T.O.PAR.) TOP OF PARAPET HEIGHTS ARE FROM (REF. 0'-0").

4. FOR MECHANICAL UNIT FRAMING AND DETAILS, REFER TO THE FOLLOWING DETAILS, CONDENSING UNIT 4/501, EXHAUST FAN II/501, MECH. UNIT 2/501

THE FRAMING IN THE VICINITY OF THE MECHANICAL UNITS WAS DESIGNED FOR THE UNIT SIZE AND HEIGHT AS SHOWN ON THE MECHANICAL DRAWINGS. ANY COSTS INCURRED FROM ANY SUBSTITUTION MADE BY THE CONTRACTOR WHICH REQUIRES RE-DESIGN OR MODIFICATIONS TO THE CONSTRUCTION DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MAY WISH TO INQUIRE AS TO THE PROBABLE EXTENT OF THESE COSTS PRIOR TO INTRODUCING A SUBSTITUTION.

5. FOR ALL HEADER SIZES NOT IDENTIFIED SEE LUMBER NOTE 15 ON SHEET S0.1

6. ALL LEDGERS SHALL BE SPLICED PER 7A/503 U.N.O.

7. SHADED PORTIONS INDICATE CALIFORNIA FRAMING

8. ALL EXTERIOR WALLS AND PARAPETS WHICH ARE NOT ALREADY INDICATED AS SHEAR WALLS SHALL RECEIVE PLYWOOD AND NAILING PER SHEAR WALL TYPE 'A' 1/503

9. NO CUTTING OR NOTCHING OF PWJ FLANGES IS PERMITTED.

10. RED-I PREFABRICATED WOOD I-JOIST ARE IDENTIFIED BY A STAMP THAT INCLUDES THE PRODUCT DESIGNATION, EVALUATION REPORT NUMBER (ICC-ES ESR-2994), MANUFACTURER'S NAME (REDBUILT) OR LOGO, PLANT NUMBER, PRODUCTION DATE, AND THE NAME OR LOGO OF THE INSPECTION AGENCY (PFS CORPORATION). CALCULATIONS AND SHOP DRAWINGS, STAMPED BY A LICENSED CALIFORNIA CIVIL OR STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL.

11. SEE ARCH'L. DWGS FOR ALL DIMENSIONS NOT SHOWN AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS

12. FRAMING AT OPENINGS PER TYP. STUD WALL FRAMING DETAIL 2/503

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RANCHO CUCAMONGA, CA 91730
909-987-0909 P

# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
Ex.Dat: 03/31/27
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
Rick W. Byrd
No. S3350
Exp. 3/31/26
STRUCTURAL
STATE OF CALIFORNIA

CONSULTANT
miyamoto.
1047 West Sixth Street, Suite A
Ontario, CA 91762
MI2329021.00
T: (833) 270-8648
miyamotointernational.com

| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
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| 5 | REVISIONS | | |

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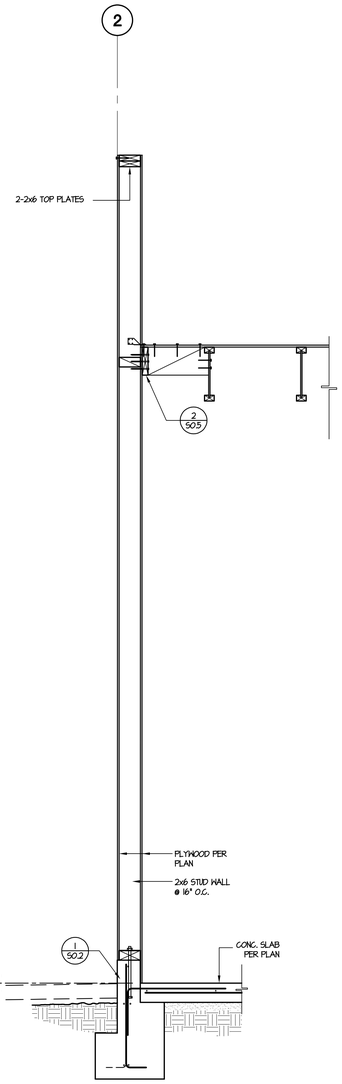
| DRAWN: JA | CHECKED: RB |
| DATE: 05/11/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

ROOF FRAMING PLAN

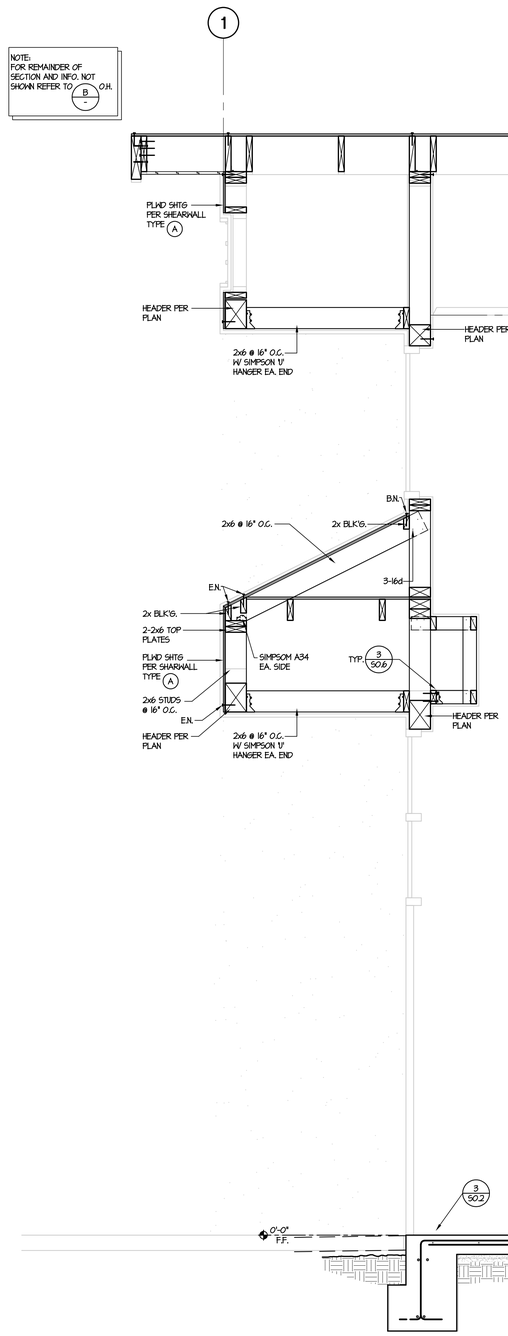
DRAWING NUMBER: S3.1

BID SET_ADDENDUM 5

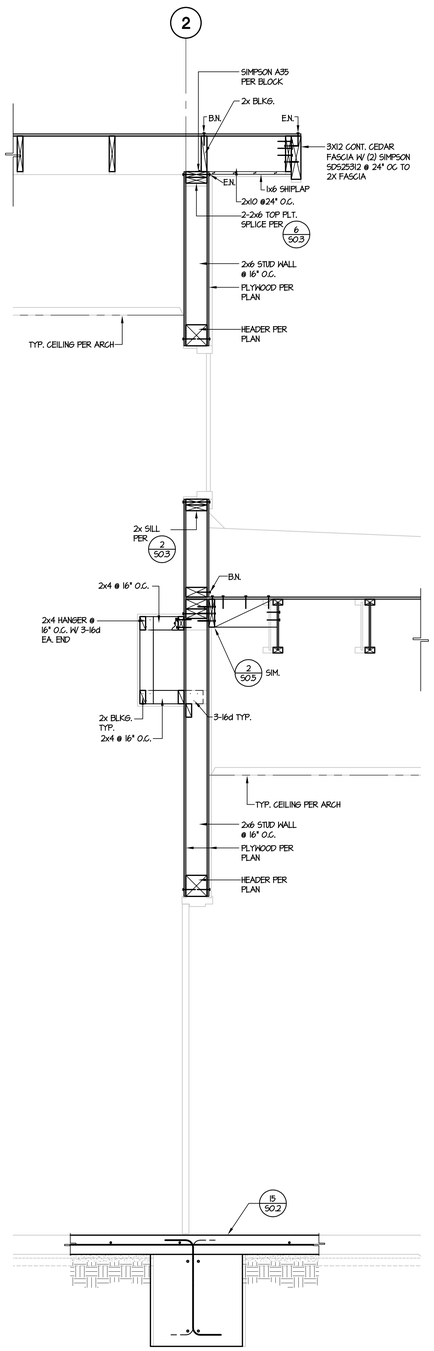



SECTION D
SCALE: 3/4"=1'-0"

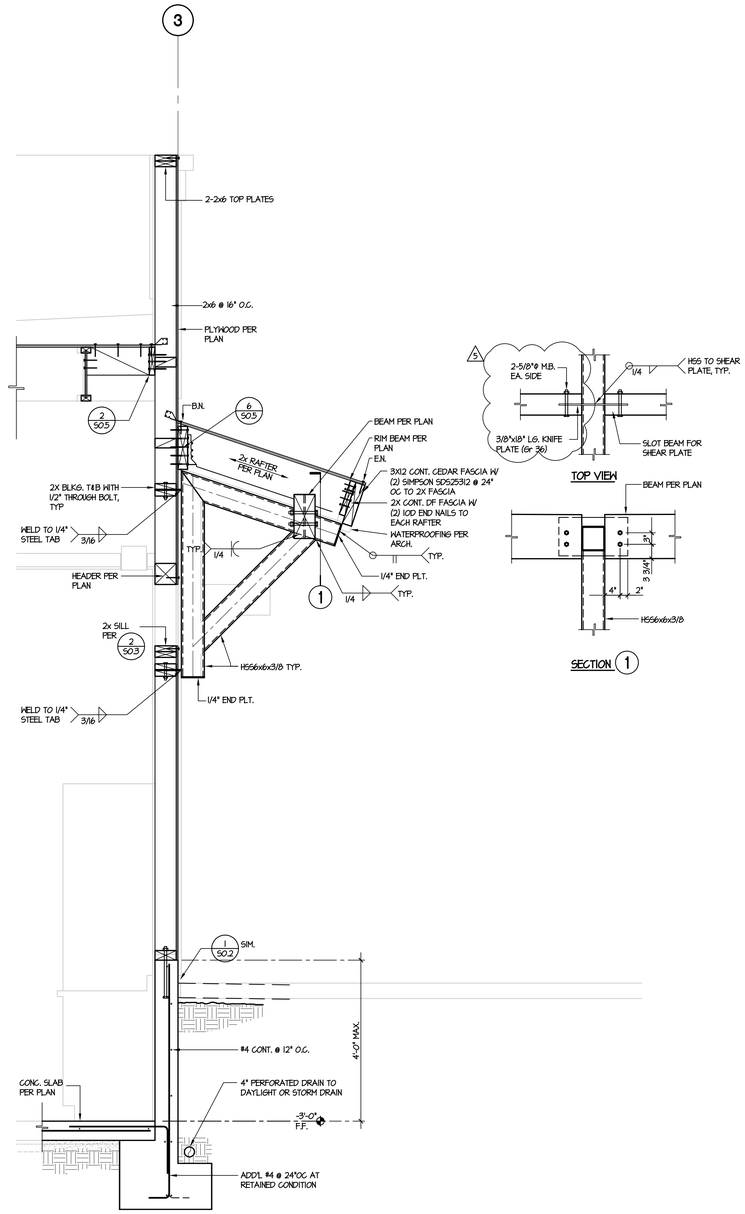
NOTE:
FOR REMAINDER OF SECTION AND INFO. NOT SHOWN REFER TO B/- O.H.




SECTION C
SCALE: 3/4"=1'-0"




SECTION B
SCALE: 3/4"=1'-0"




SECTION A
SCALE: 3/4"=1'-0"




SECTION 1


**RANCHO CUCAMONGA**
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

**SAN BERNARDINO COUNTY FIRE DEPARTMENT**
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM — C-19064 — Ex.Da: 03/31/27 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — Rick M. Byrd — No. S3350 — Exp. 3/31/26 — STRUCTURAL — STATE OF CALIFORNIA


**CONSULTANT**
miyamoto.
1047 West Sixth Street, Suite A
Ontario, CA 91762
M02328021.00
T: (833) 270-8648
miyamotointernational.com


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
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REVISIONS

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| DRAWN: JA | CHECKED: RB |
| DATE: 05/11/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

WALL SECTIONS

DRAWING NUMBER: S4.2

B10 SET_ADDENDUM 5

**PANEL "LA"** — MAIN BREAKER: 100A. — SCA: MOUNT: SURFACE
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — ENTRY: BOTTOM
LOCATION: ELECTRICAL RM. 116 — COPPER: 100A.

| DESCRIPTION | CKT | BKR | P | LTS | REC | MSC | MTR | A-VA | B-VA | C-VA | AMPS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RMS. 105,115-117 LTG. | 1 | 20 | 1 | 17 | | | | 467 | | | |
| RM. 114 LIGHTING | 3 | 20 | 1 | 44 | | | | | 1596 | | |
| RMS. 101-104, 106-113 LTG. | 5 | 20 | 1 | 53 | | | | | | 1483 | |
| EXTERIOR BLDG. LTS. | 7 | 20 | 1 | 29 | | | | 634 | | | |
| SITE / VIS. PRKG. LTS.-WEST | 9 | 20 | 2 | 9 | | | | | 313 | | |
| W/CKT. 9 | 11 | ---- | --- | | | | | | | 313 | |
| STAFF PARKING LTS. | 13 | 20 | 2 | 5 | | | | 455 | | | |
| W/CKT. 13 | 15 | ---- | --- | | | | | | 455 | | |
| SITE NORTH-EAST LTS. | 17 | 20 | 2 | 11 | | | | | | 825 | |
| W/CKT. 17 | 19 | ---- | --- | | | | | 825 | | | |
| TRAINING TOWER LTS. | 21 | 20 | 2 | 5 | | | | | 650 | | |
| W/CKT. 21 | 23 | ---- | --- | | | | | | | 650 | |
| FIRE STATION SIGN | 25 | 20 | 1 | | | 1 | | 1200 | | | |
| FIRE STATION ADDRESS SIGN | 27 | 20 | 1 | | | 1 | | | 1200 | | |
| MONUMENT SIGN | 29 | 20 | 1 | | | 1 | | | | 1200 | |
| MONUMENT SIGN | 31 | 20 | 1 | | | 1 | | 1200 | | | |
| MONUMENT SIGN | 33 | 20 | 1 | | | 1 | | | 1200 | | |
| SPACE | 35 | ---- | --- | | | | | | | | |
| SPACE | 37 | ---- | --- | | | | | | | | |
| SPACE | 39 | ---- | --- | | | | | | | | |
| SPACE | 41 | ---- | --- | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 4781 | 5414 | 4471 | |
| SPARE | 2 | 20 | 1 | | | | | | | | |
| SPARE | 4 | 20 | 1 | | | | | | | | |
| SPARE | 6 | 20 | 1 | | | | | | | | |
| SPARE | 8 | 20 | 1 | | | | | | | | |
| SPARE | 10 | 20 | 1 | | | | | | | | |
| SPARE | 12 | 20 | 1 | | | | | | | | |
| SPARE | 14 | 20 | 1 | | | | | | | | |
| SPARE | 16 | 20 | 1 | | | | | | | | |
| SPARE | 18 | 20 | 1 | | | | | | | | |
| SPARE | 20 | 20 | 1 | | | | | | | | |
| SPARE | 22 | 20 | 1 | | | | | | | | |
| SPARE | 24 | 20 | 1 | | | | | | | | |
| SPARE | 26 | 20 | 1 | | | | | | | | |
| SPARE | 28 | 20 | 1 | | | | | | | | |
| SPARE | 30 | 20 | 1 | | | | | | | | |
| SPACE | 32 | ---- | --- | | | | | | | | |
| SPACE | 34 | ---- | --- | | | | | | | | |
| SPACE | 36 | ---- | --- | | | | | | | | |
| SPACE | 38 | ---- | --- | | | | | | | | |
| SPACE | 40 | ---- | --- | | | | | | | | |
| SPACE | 42 | ---- | --- | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 0 | 0 | 0 | |
| PANEL SUB TOTAL VOLT/AMPS: | | | | | | | | 4781 | 5414 | 4471 | |
| TOTAL LCL/PHASE: | | | | | | | | 1195 | 1354 | 1118 | |
| CONNECTED: 14666 VA — TOTAL VOLT/AMPS: | | | | | | | | 5976 | 6768 | 5589 | |
| 25% OF MTR: VA — TOTAL AMPS/PHASE: | | | | | | | | 50 | 56 | 47 | |
| 25% OF LCL: 2166.5 VA | | | | | | | | | | | |
| CALCULATED: 16833 VA = 46.72 AVERAGE AMPS | | | | | | | | | | | |

**PANEL "LB"** — MAIN BREAKER: 150A. — SCA: MOUNT: SURFACE
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — ENTRY: BOTTOM
LOCATION: ELECTRICAL RM. 116 — COPPER: 225A.

| DESCRIPTION | CKT | BKR | P | LTS | REC | MSC | MTR | A-VA | B-VA | C-VA | AMPS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MEN'S / WOMEN'S R.R. REC. | 1 | 20 | 1 | | 3 | | | 540 | | | |
| MEN'S / WOMEN'S R.R. REC. | 3 | 20 | 1 | | 3 | | | | 540 | | |
| EXTERIOR DRINK FOUNTAIN | 5 | 20 | 1 | | 1 | | | | | 360 | |
| OFFICE RECEPTACLES | 7 | 20 | 1 | | 6 | | | 1080 | | | |
| OFFICE RECEPTACLES | 9 | 20 | 1 | | 6 | | | | 1080 | | |
| OFFICE CONTROL RECEPS. | 11 | 20 | 1 | | 6 | | | | | 1080 | |
| LOBBY/VESTIBULE REC. | 13 | 20 | 1 | | 5 | | | 900 | | | |
| LOBBY CNTROL RECEPS. | 15 | 20 | 1 | | 2 | | | | 360 | | |
| LOBBY/VESTIBULE REC. | 17 | 20 | 1 | | 4 | | | | | 720 | |
| TRAINING STOR. RECEPT. | 19 | 20 | 1 | | 4 | | | 720 | | | |
| DOOR CONTROL PANEL | 21 | 20 | --- | | --- | | | | 500 | | |
| SECURITY CONTROL PANEL | 23 | 20 | 1 | | | 1 | | | | 500 | |
| FIRE ALARM CONTROL PANEL | 25 | 20 | 1 | | | 1 | | 500 | | | |
| NLIGHT NECY | 27 | 20 | 1 | | | 1 | | | 500 | | |
| NLIGHT ARP | 29 | 20 | 1 | | | 1 | | | | 500 | |
| PROJECTOR | 31 | 20 | 1 | | | 1 | | 500 | | | |
| PROJECT MOTOR | 33 | 20 | 1 | | | 1 | | | 660 | | |
| RACK RECEPTACLE | 35 | 20 | 2 | | 1 | | | | | 500 | |
| W/CKT. 35 | 37 | ---- | --- | | | | | 500 | | | |
| RACK RECEPTACLE | 39 | 20 | 2 | | 1 | | | | 500 | | |
| W/CKT. 39 | 41 | ---- | --- | | | | | | | 500 | |
| CHAIR LIFT | 43 | 20 | 3 | | | 1 | | 500 | | | |
| W/CKT. 43 | 45 | ---- | --- | | | | | | 500 | | |
| W/CKT. 43 | 47 | ---- | --- | | | | | | | 500 | |
| SPARE | 49 | 20 | 1 | | | | | | | | |
| GATE OPERATOR | 51 | 20 | 1 | | | 1 | | | 500 | | |
| ROOF RECEPTACLE | 53 | 20 | 1 | | 1 | | | | | 180 | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 5240 | 4080 | 4280 | |
| TRAINING RM. DESK RECEPS. | 2 | 20 | 1 | | 6 | | | | 1080 | | |
| TRAINING RM. DESK RECEPS. | 4 | 20 | 1 | | 4 | | | | 720 | | |
| TRAINING RM. DESK RECEPS. | 6 | 20 | 1 | | 4 | | | | | 720 | |
| TRAINING RM. DESK RECEPS. | 8 | 20 | 1 | | 4 | | | 720 | | | |
| TRAINING RM. DESK RECEPS. | 10 | 20 | 1 | | 6 | | | | 1080 | | |
| TRAINING RM. DESK RECEPS. | 12 | 20 | 1 | | 4 | | | | | 720 | |
| TRAINING RM. DESK RECEPS. | 14 | 20 | 1 | | 4 | | | 720 | | | |
| TRAINING RM. DESK RECEPS. | 16 | 20 | 1 | | 4 | | | | 720 | | |
| TRAINING RM. DESK RECEPS. | 18 | 20 | 1 | | 6 | | | | | 1080 | |
| TRAINING RM. DESK RECEPS. | 20 | 20 | 1 | | 4 | | | 720 | | | |
| TRAINING RM. DESK RECEPS. | 22 | 20 | 1 | | 4 | | | | 720 | | |
| TRAINING RM. DESK RECEPS. | 24 | 20 | 1 | | 1 | | | | | 360 | |
| SPARE | 26 | 20 | 1 | | | | | | | | |
| TRAINING RM. RECEPTACLES | 28 | 20 | --- | | --- | | | | 540 | | |
| TRAINING RM. RECEPTACLES | 30 | 20 | 1 | | 3 | | | | | 540 | |
| TRAINING RM. RECEPTACLES | 32 | 20 | 1 | | 3 | | | 540 | | | |
| TRAINING STORAGE RECEPS | 34 | 20 | 1 | | 3 | | | | 540 | | |
| HALLWAY RECEPTACLES | 36 | 20 | 1 | | 4 | | | | | 720 | |
| ELEC. RM. TEL. BACKBOARD | 38 | 20 | 1 | | 1 | | | 360 | | | |
| ELEC. RM. TEL. BACKBOARD | 40 | 20 | 1 | | 1 | | | | 360 | | |
| HALLWAY DRINK FOUNTAIN | 42 | 20 | 1 | | 1 | | | | | 360 | |
| TP-3 (FIRE PUMP) | 44 | 20 | 1 | | | 1 | | 360 | | | |
| SPARE | 46 | 20 | 1 | | | | | | | | |
| SPARE | 48 | 20 | 1 | | | | | | | | |
| SPARE | 50 | 20 | 1 | | | | | | | | |
| SPARE | 52 | 20 | 1 | | | | | | | | |
| SPARE | 54 | 20 | 1 | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 4500 | 4680 | 4500 | |
| PANEL SUB TOTAL VOLT/AMPS: | | | | | | | | 9740 | 9660 | 9340 | |
| TOTAL LCL/PHASE: | | | | | | | | 0 | 0 | 0 | |
| CONNECTED: 28740 VA — TOTAL VOLT/AMPS: | | | | | | | | 9740 | 9660 | 9340 | |
| 25% OF MTR: VA — TOTAL AMPS/PHASE: | | | | | | | | 81 | 81 | 78 | |
| 25% OF LCL: 0 VA | | | | | | | | | | | |
| CALCULATED: 28740 VA = 79.77 AVERAGE AMPS | | | | | | | | | | | |

**PANEL "LC"** — MAIN BREAKER: 225A. — SCA: MOUNT: SURFACE
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — ENTRY: BOTTOM
LOCATION: ELECTRICAL RM. 116 — COPPER: 225A.

| DESCRIPTION | CKT | BKR | P | LTS | REC | MSC | MTR | A-VA | B-VA | C-VA | AMPS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AC-1 | 1 | 45 | 3 | | | 1 | | 3600 | | | |
| W/CKT. 1 | 3 | ---- | --- | | | | | | 3600 | | |
| W/CKT. 1 | 5 | ---- | --- | | | | | | | 3600 | |
| AC-1 PWR. EXHAUST | 7 | 15 | 3 | | | 1 | | 960 | | | |
| W/CKT. 7 | 9 | ---- | --- | | | | | | 960 | | |
| W/CKT. 7 | 11 | ---- | --- | | | | | | | 960 | |
| AC-2 | 13 | 45 | 3 | | | 1 | | 3600 | | | |
| W/CKT. 13 | 15 | ---- | --- | | | | | | 3600 | | |
| W/CKT. 13 | 17 | ---- | --- | | | | | | | 3600 | |
| AC-2 PWR. EXHAUST | 19 | 15 | 3 | | | 1 | | 960 | | | |
| W/CKT. 19 | 21 | ---- | --- | | | | | | 960 | | |
| W/CKT. 19 | 23 | ---- | --- | | | | | | | 960 | |
| SPARE | 25 | 20 | 1 | | | | | | | | |
| SPARE | 27 | 20 | 1 | | | | | | | | |
| SPARE | 29 | 20 | 1 | | | | | | | | |
| SPARE | 31 | 20 | 1 | | | | | | | | |
| SPARE | 33 | 20 | 1 | | | | | | | | |
| SPARE | 35 | 20 | 1 | | | | | | | | |
| SPARE | 37 | 20 | 1 | | | | | | | | |
| SPARE | 39 | 20 | 1 | | | | | | | | |
| SPARE | 41 | 20 | 1 | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 9120 | 9120 | 9120 | |
| AC-3 | 2 | 45 | 3 | | | 1 | | 3600 | | | |
| W/CKT. 2 | 4 | ---- | --- | | | | | | 3600 | | |
| W/CKT. 2 | 6 | ---- | --- | | | | | | | 3600 | |
| AC-3 PWR. EXHAUST | 8 | 15 | 3 | | | 1 | | 960 | | | |
| W/CKT. 8 | 10 | ---- | --- | | | | | | 960 | | |
| W/CKT. 8 | 12 | ---- | --- | | | | | | | 960 | |
| CU-1 / FC-1 | 14 | 20 | 2 | | | 2 | | 1872 | | | |
| W/CKT. 14 | 16 | ---- | --- | | | | | | 1872 | | |
| CU-2 / FC-2 | 18 | 20 | 2 | | | 2 | | | | 1872 | |
| W/CKT. 18 | 20 | ---- | --- | | | | | 1872 | | | |
| EF-1 (ROOF) | 22 | 20 | 1 | | | 1 | | | 1176 | | |
| EF-2 (RM. 116) | 24 | 15 | 1 | | | 1 | | | | 528 | |
| CP-1 / AQUA-STAT | 26 | 20 | 1 | | | 2 | | 960 | | | |
| TP-3 - ROOM 117 | 28 | 20 | 1 | | | 1 | | | 180 | | |
| WH-1 IGNITION | 30 | 20 | 1 | | 1 | | | | | 180 | |
| SPARE | 32 | 20 | 1 | | | | | | | | |
| SPARE | 34 | 20 | 1 | | | | | | | | |
| SPARE | 36 | 20 | 1 | | | | | | | | |
| SPARE | 38 | 20 | 1 | | | | | | | | |
| SPARE | 40 | 20 | 1 | | | | | | | | |
| SPARE | 42 | 20 | 1 | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 8664 | 7788 | 7140 | |
| PANEL SUB TOTAL VOLT/AMPS: | | | | | | | | 17784 | 16908 | 16260 | |
| TOTAL LCL/PHASE: | | | | | | | | 0 | 0 | 0 | |
| CONNECTED: 50952 VA — TOTAL VOLT/AMPS: | | | | | | | | 17784 | 16908 | 16260 | |
| 25% OF MTR: VA — TOTAL AMPS/PHASE: | | | | | | | | 148 | 141 | 136 | |
| 25% OF LCL: 0 VA | | | | | | | | | | | |
| CALCULATED: 50952 VA = 141.43 AVERAGE AMPS | | | | | | | | | | | |

**PANEL "EVP"** — MAIN BREAKER: 225A. — SCA: MOUNT: SURFACE
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — ENTRY: BOTTOM
LOCATION: ELEC. ROOM 116 — COPPER: 225A.

| DESCRIPTION | CKT | BKR | P | LTS | REC | MSC | MTR | A-VA | B-VA | C-VA | AMPS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EV CHARGER #1 | 1 | 40 | 2 | | | | | 3328 | | | |
| W/CKT. 1 | 3 | ---- | --- | | | | | | 3328 | | |
| EV CHARGER #2 | 5 | 40 | 2 | | | | | | | 3328 | |
| W/CKT. 5 | 7 | ---- | --- | | | | | 3328 | | | |
| EV CAPABLE | 9 | 40 | 2 | | | | | | 3328 | | |
| W/CKT. 9 | 11 | ---- | --- | | | | | | | 3328 | |
| EV CAPABLE | 13 | 40 | 2 | | | | | 3328 | | | |
| W/CKT. 13 | 15 | ---- | --- | | | | | | 3328 | | |
| SPACE | 17 | | | | | | | | | | |
| SPACE | 19 | | | | | | | | | | |
| SPACE | 21 | | | | | | | | | | |
| SPACE | 23 | | | | | | | | | | |
| SPACE | 25 | | | | | | | | | | |
| SPACE | 27 | | | | | | | | | | |
| SPACE | 29 | | | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 9984 | 9984 | 6656 | |
| EV CAPABLE | 2 | 40 | 2 | | | | | 3328 | | | |
| W/CKT. 2 | 4 | ---- | --- | | | | | | 3328 | | |
| EV CAPABLE | 6 | 40 | 2 | | | | | | | 3328 | |
| W/CKT. 6 | 8 | ---- | --- | | | | | 3328 | | | |
| EV CAPABLE | 10 | 40 | 2 | | | | | | 3328 | | |
| W/CKT. 8 | 12 | ---- | --- | | | | | | | 3328 | |
| EV CAPABLE | 14 | 40 | 2 | | | | | 3328 | | | |
| W/CKT. 14 | 16 | ---- | --- | | | | | | 3328 | | |
| SPACE | 18 | | | | | | | | | | |
| SPACE | 20 | | | | | | | | | | |
| SPACE | 22 | | | | | | | | | | |
| SPACE | 24 | | | | | | | | | | |
| SPACE | 26 | | | | | | | | | | |
| SPACE | 28 | | | | | | | | | | |
| SPACE | 30 | | | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 9984 | 9984 | 6656 | |
| PANEL SUB TOTAL VOLT/AMPS: | | | | | | | | 19968 | 19968 | 13312 | |
| TOTAL LCL/PHASE: | | | | | | | | 1664 | 1664 | 1664 | |
| CONNECTED: 53248 VA — TOTAL VOLT/AMPS: | | | | | | | | 21632 | 21632 | 14976 | |
| 25% OF MTR: VA — TOTAL AMPS/PHASE: | | | | | | | | 180 | 180 | 125 | |
| 25% OF LCL: 0 VA | | | | | | | | | | | |
| CALCULATED: 53248 VA = 147.80 AVERAGE AMPS | | | | | | | | | | | |

**PANEL "TT"** — MAIN BREAKER: 400A. — SCA: MOUNT: SURFACE
VOLTAGE: 208/120V-4-WIRE — BUS SIZE — ENTRY: BOTTOM
LOCATION: TRAIN. TOWER EXT. — COPPER: 400A.

| DESCRIPTION | CKT | BKR | P | LTS | REC | MSC | MTR | A-VA | B-VA | C-VA | AMPS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1ST FLOOR LIGHTING | 1 | 20 | 1 | 36 | | | | 576 | | | |
| STAIR TOWER LIGHTING | 3 | 20 | 1 | 24 | | | | | 414 | | |
| HALLWAY STAIR LTG. | 5 | 20 | 1 | 2 | | | | | | 30 | |
| 2ND FLOOR LIGHTING | 7 | 20 | 1 | 24 | | | | 432 | | | |
| 3RD, 4TH & 5TH FLR. LTG. | 9 | 20 | 1 | 17 | | | | | 339 | | |
| EXTERIOR BLDG. LTS. | 11 | 20 | 1 | 13 | | | | | | 508 | |
| BASEMENT LTG. | 13 | 20 | 1 | 5 | | | | 75 | | | |
| EXTERIOR ROOF LTS. | 15 | 20 | 1 | 2 | | | | | 86 | | |
| SPARE | 17 | 20 | 1 | | | | | | | | |
| SPARE | 19 | 20 | 1 | | | | | | | | |
| SPARE | 21 | 20 | 1 | | | | | | | | |
| EXTERIOR BLDG. RECEPT. | 23 | 20 | 1 | | 2 | | | | | 360 | |
| EXTERIOR BLDG. RECEPT. | 25 | 20 | 1 | | 3 | | | 540 | | | |
| EXTERIOR BLDG. RECEPT. | 27 | 20 | 1 | | 3 | | | | 540 | | |
| EXTERIOR BLDG. RECEPT. | 29 | 20 | 1 | | 2 | | | | | 360 | |
| 1ST FLR. CNTRL. RM. REC. | 31 | 20 | 1 | | 3 | | | 540 | | | |
| 1ST FLR. CNTRL. RM. REC. | 33 | 20 | 1 | | 3 | | | | 540 | | |
| 2ND FLR. CNTRL. RM. REC. | 35 | 20 | 1 | | 3 | | | | | 540 | |
| 2ND FLR. CNTRL. RM. REC. | 37 | 20 | 1 | | 3 | | | 540 | | | |
| 4TH FLR. CNTRL. RM. REC. | 39 | 20 | 1 | | 3 | | | | 540 | | |
| FALCON PORT. CONTROLLER | 41 | 20 | 1 | | | 1 | | | | 360 | |
| 4TH FLR. CONTROL ROOM | 43 | 50 | 3 | | | 1 | | 6000 | | | |
| W/CKT. 43 | 45 | ---- | --- | | | | | | 6000 | | |
| W/CKT. 43 | 47 | ---- | --- | | | | | | | 6000 | |
| 4TH FLR. CON. RM. AIR COMP. | 49 | 15 | 2 | | | 1 | | 1248 | | | |
| W/CKT. 49 | 51 | ---- | --- | | | | | | 1248 | | |
| 4TH FLR. CON. RM. AIR DRY. | 53 | 15 | 1 | | | 1 | | | | 1200 | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 9951 | 9707 | 9358 | |
| 1ST FLR. CONTROL ROOM | 2 | 50 | 3 | | | 1 | | 6000 | | | |
| W/CKT. 2 | 4 | ---- | --- | | | | | | 6000 | | |
| W/CKT. 2 | 6 | ---- | --- | | | | | | | 6000 | |
| 1ST FLR. CONTROL ROOM | 8 | 50 | 3 | | | 1 | | 6000 | | | |
| W/CKT. 8 | 10 | ---- | --- | | | | | | 6000 | | |
| W/CKT. 8 | 12 | ---- | --- | | | | | | | 6000 | |
| STAIR TOWER RECEPTACLES | 14 | 20 | 1 | | 6 | | | 1080 | | | |
| 1ST FLR. CON. RM. AIR COMP. | 16 | 15 | 2 | | | 1 | | | 1248 | | |
| W/CKT. 16 | 18 | ---- | --- | | | | | | | 1248 | |
| 1ST FLR. CON. RM. AIR DRY. | 20 | 15 | 1 | | | 1 | | 1200 | | | |
| 1ST FLR. CON. RM. AIR COMP. | 22 | 15 | 2 | | | 1 | | | 1248 | | |
| W/CKT. 22 | 24 | ---- | --- | | | | | | | 1248 | |
| 1ST FLR. CON. RM. AIR DRY. | 26 | 15 | 1 | | | 1 | | 1200 | | | |
| 2ND FLR. CONTROL ROOM | 28 | 50 | 3 | | | 1 | | | 6000 | | |
| W/CKT. 28 | 30 | ---- | --- | | | | | | | 6000 | |
| W/CKT. 28 | 32 | ---- | --- | | | | | | 6000 | | |
| 2ND FLR. CON. RM. AIR COMP. | 34 | 15 | 2 | | | 1 | | | 1248 | | |
| W/CKT. 34 | 36 | ---- | --- | | | | | | | 1248 | |
| 2ND FLR. CON. RM. AIR DRY. | 38 | 15 | 1 | | | 1 | | 1200 | | | |
| 2ND FLR. CONTROL ROOM | 40 | 50 | 3 | | | 1 | | | 6000 | | |
| W/CKT. 40 | 42 | ---- | --- | | | | | | | 6000 | |
| W/CKT. 40 | 44 | ---- | --- | | | | | | 6000 | | |
| 2ND FLR. CON. RM. AIR COMP. | 46 | 15 | 2 | | | 1 | | 1248 | | | |
| W/CKT. 46 | 48 | ---- | --- | | | | | | | 1248 | |
| 2ND FLR. CON. RM. AIR DRY. | 50 | 15 | 1 | | | 1 | | | 1200 | | |
| SPARE | 52 | 20 | 1 | | | | | | | | |
| SPARE | 54 | 20 | 1 | | | | | | | | |
| SUB TOTAL VOLT/AMPS: | | | | | | | | 29880 | 28992 | 28992 | |
| PANEL SUB TOTAL VOLT/AMPS: | | | | | | | | 39831 | 38699 | 38350 | |
| TOTAL LCL/PHASE: | | | | | | | | 271 | 210 | 135 | |
| CONNECTED: 116880 VA — TOTAL VOLT/AMPS: | | | | | | | | 40102 | 38909 | 38485 | |
| 25% OF MTR: VA — TOTAL AMPS/PHASE: | | | | | | | | 334 | 324 | 321 | |
| 25% OF LCL: 615 VA | | | | | | | | | | | |
| CALCULATED: 117495 VA = 326.13 AVERAGE AMPS | | | | | | | | | | | |

## PANEL SCHEDULE NOTES

1. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY UL OR A COUNTY APPROVED THIRD PARTY TESTING FACILITY PER SECTION 110.3(b).
2. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR TO PROVIDE BRANCH CIRCUIT PANELS WITH DEDICATED SPACE FOR INSTALLATION OF FUTURE CT'S FOR MONITORING OF INDIVIDUAL BRANCH CIRCUITS.
4. CONTRACTOR TO PROVIDE ENGRAVED NAME PLATES FOR MAIN SWITCHBOARD, SWITCHBOARD METERS, AND PANELS.
5. CONTRACTOR TO PROVIDE HANDLE TIE.


PBK
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8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM — C-19064 — Exp. 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — RICHARD E. SUTTON — No. E17229 — 6/30/26 — STATE OF CALIFORNIA


CONSULTANT
A&F ENGINEERING GROUP, INC.
9320 BASELINE RD., SUITE C, RANCHO CUCAMONGA, CA 91701
TEL (909) 941-3005 FAX (909) 941-5021

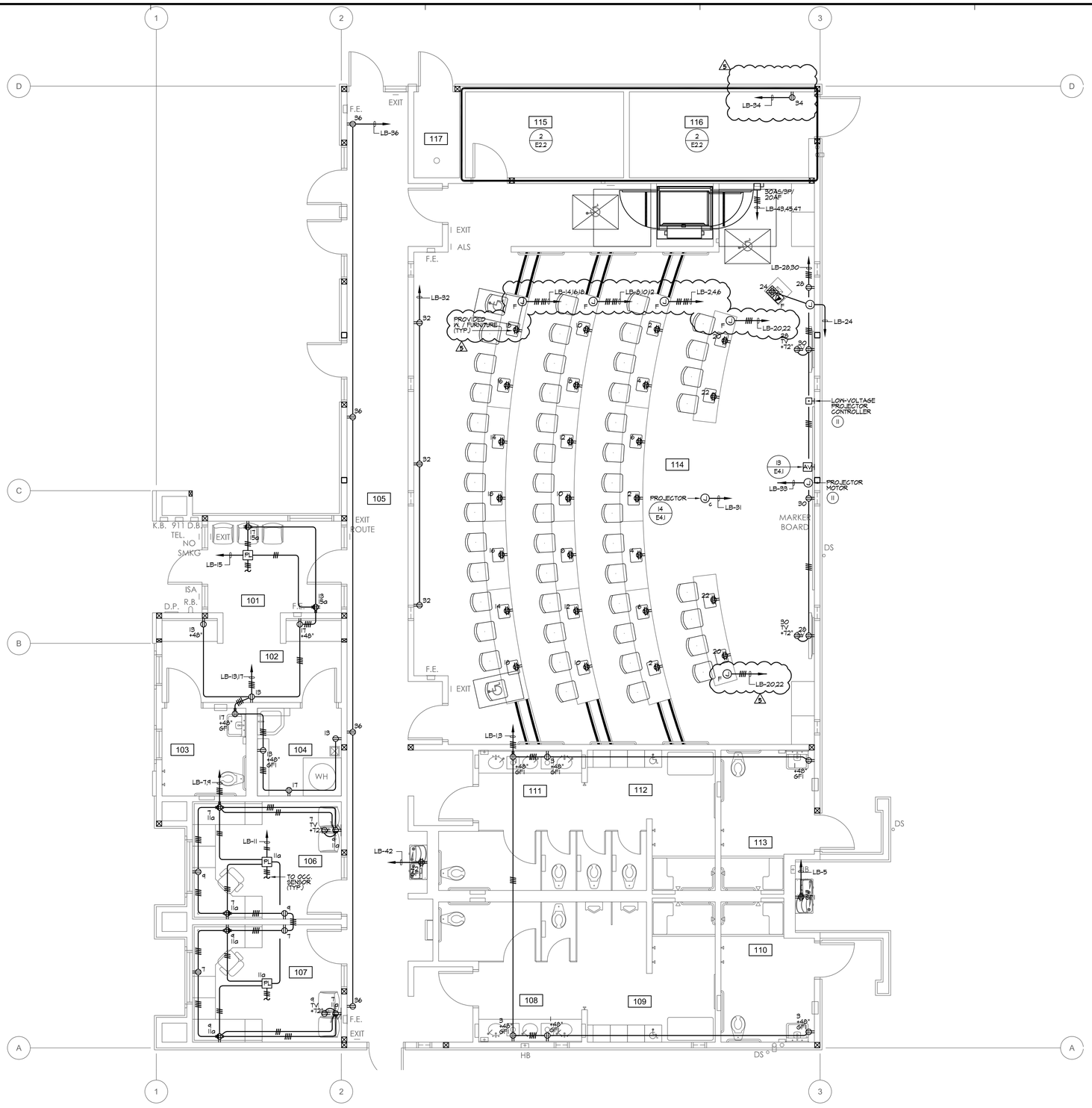

| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| # | | | REVISIONS |

DRAWN: LS — CHECKED: RES
DATE: 05/11/2025 — SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

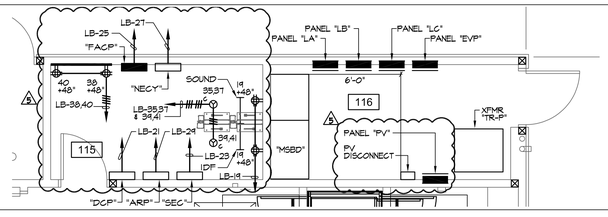
PANEL SCHEDULES

DRAWING NUMBER: E0.3

BID SET_ADDENDUM 5




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




ELECTRICAL / STORAGE POWER PLAN | 1/4" = 1'-0" | 2

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. SEE SINGLE LINE DIAGRAM, DRAWING E0.2 FOR CONDUIT SIZE AND WIRE SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
3. CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
4. EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCES WITH OTHER OUTLETS AND CASEWORK.
5. EXTERIOR MOUNTED DEVICES / RECEPTACLES SHALL BE PROVIDED COMPLETE WITH LOCKING TYPE WEATHERPROOF COVERS AND BE U.L. LISTED FOR WET LOCATIONS WHEN IN USE. COVERS SHALL BE AS MANUFACTURED BY RACO OR APPROVED EQUAL. PLASTIC COVERS NOT ALLOWED.
6. NO OUTLET TO BE INSTALLED BEHIND PERMANENTLY INSTALLED CASEWORK. WHERE OUTLETS ARE SPECIFICALLY NOTED TO BE INSTALLED IN CABINETS, THE OUTLETS SHALL BE FLUSH WITH THE INSTALLED SURFACE OF THE CABINET.
7. NO EXPOSED CONDUIT WILL BE ALLOWED.
8. REFER TO ELECTRICAL SPECIFICATIONS FOR EQUIPMENT AND WIRING REQUIREMENTS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
10. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.
11. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS WITH THE ARCHITECT PRIOR TO ROUGH-IN AND INSTALLATION. CONTRACTOR TO PROVIDE ALL REQUIRED INSTALLATION WIRES, CABLES, CONNECTORS, ECT. REQUIRED BY THE MANUFACTURER FOR A COMPLETE AND OPERABLE SYSTEM.

| ROOM # | ROOM NAME | |
|---|---|---|
| 101 | LOBBY | |
| 102 | VESTIBULE | |
| 103 | ACCESSIBLE RESTROOM | |
| 104 | CUSTODIAL/ STORAGE | |
| 105 | HALLWAY | |
| 106 | TRAINING OFFICE 1 | |
| 107 | TRAINING OFFICE 2 | |
| 108 | MEN RESTROOM | |
| 109 | MEN LOCKERS/ SHOWER | |
| 110 | UNISEX BATHROOM | |
| 111 | WOMEN RESTROOM | |
| 112 | WOMEN LOCKERS/ SHOWER | |
| 113 | UNISEX BATHROOM | |
| 114 | TRAINING ROOM | |
| 115 | TRAINING STORAGE | |
| 116 | ELECTRICAL ROOM | |
| 117 | FIRE RISER ROOM | |

ROOM LEGEND | 3

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REGISTERED PROFESSIONAL ENGINEER — RICHARD L. STEED — No. E17229 — 6/30/26 — STATE OF CALIFORNIA

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| NO | DATE | BY | DESCRIPTION |
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| 5 | 09/25/25 | | ADDENDUM 5 |
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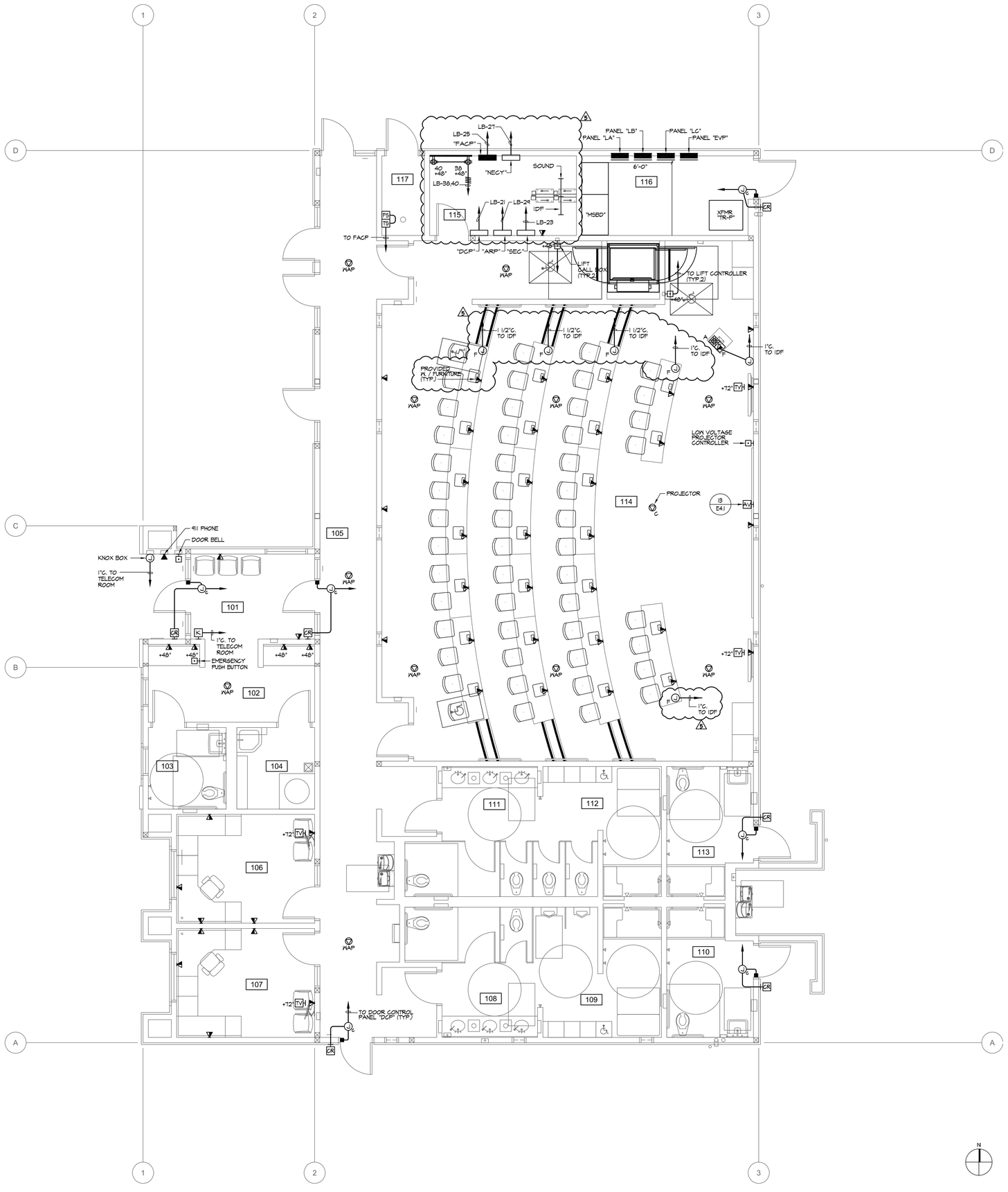
REVISIONS

DRAWN: LS | CHECKED: RES
DATE: 05/11/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

POWER PLAN

DRAWING NUMBER: E2.2

BID SET_ADDENDUM 5




## PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO PULLING OF CABLES / CONDUCTORS.
3. EXTERIOR MOUNTED DEVICES SHALL BE PROVIDED COMPLETE WITH WEATHERPROOF BACKBOXES AND/OR COVERS. COVERS SHALL BE AS RECOMMENDED BY THE SYSTEM'S MANUFACTURER.
4. KNOX BOX. CONNECT TO FIRE ALARM CONTROL PANEL. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
5. WHERE LOW VOLTAGE WIRING IS REQUIRED IN INACCESSIBLE CEILING SPACES, THE CONTRACTOR SHALL PROVIDE A COMPLETE CONDUIT SYSTEM FOR ROUTING OF THE SUBJECT WIRE/CABLE.
6. FIRE ALARM DEVICES SHOWN ON PLAN ARE FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE PATHWAYS FOR FIRE ALARM DEVICES SHOWN ON PLAN. FIRE ALARM SYSTEM IS A DEFERRED APPROVAL A COMPLETE FIRE ALARM SYSTEM DESIGN SHALL BE SUBMITTED AND REVIEWED BY THE LIFE SAFETY SERVICES, FIRE PREVENTION DEPARTMENT.
7. NO OUTLET TO BE INSTALLED BEHIND PERMANENTLY INSTALLED CASEWORK. WHERE OUTLETS ARE SPECIFICALLY NOTED TO BE INSTALLED IN CABINETS, THE OUTLETS SHALL BE FLUSH WITH THE INSTALLED SURFACE OF THE CABINET.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED DEVICE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
9. ALL LOW VOLTAGE WIRING/CABLING TO ALL DEVICES SHALL BE INSTALLED AT TIME OF CONSTRUCTION.
10. NO EXPOSED CONDUIT WILL BE ALLOWED.
11. CONTRACTOR TO PROVIDE ENGRAVED LABELING AT EACH RECEPTACLE, DATA OUTLET, JUNCTION BOX, DISCONNECT SWITCH, ECT. DISPLAYING THE IDF OR PANEL (WITH CIRCUIT) FEEDING THE DATA OUTLET, RECEPTACLE, JUNCTION BOX, DISCONNECT SWITCH, ECT.

| ROOM # | ROOM NAME |
|---|---|
| 101 | LOBBY |
| 102 | VESTIBULE |
| 103 | ACCESSIBLE RESTROOM |
| 104 | CUSTODIAL/ STORAGE |
| 105 | HALLWAY |
| 106 | TRAINING OFFICE 1 |
| 107 | TRAINING OFFICE 2 |
| 108 | MEN RESTROOM |
| 109 | MEN LOCKERS/ SHOWER |
| 110 | UNISEX BATHROOM |
| 111 | WOMEN RESTROOM |
| 112 | WOMEN LOCKERS/ SHOWER |
| 113 | UNISEX BATHROOM |
| 114 | TRAINING ROOM |
| 115 | TRAINING STORAGE |
| 116 | ELECTRICAL ROOM |
| 117 | FIRE RISER ROOM |

SIGNAL PLAN | 1/4" = 1'-0" | 1

ROOM LEGEND | 3

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| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
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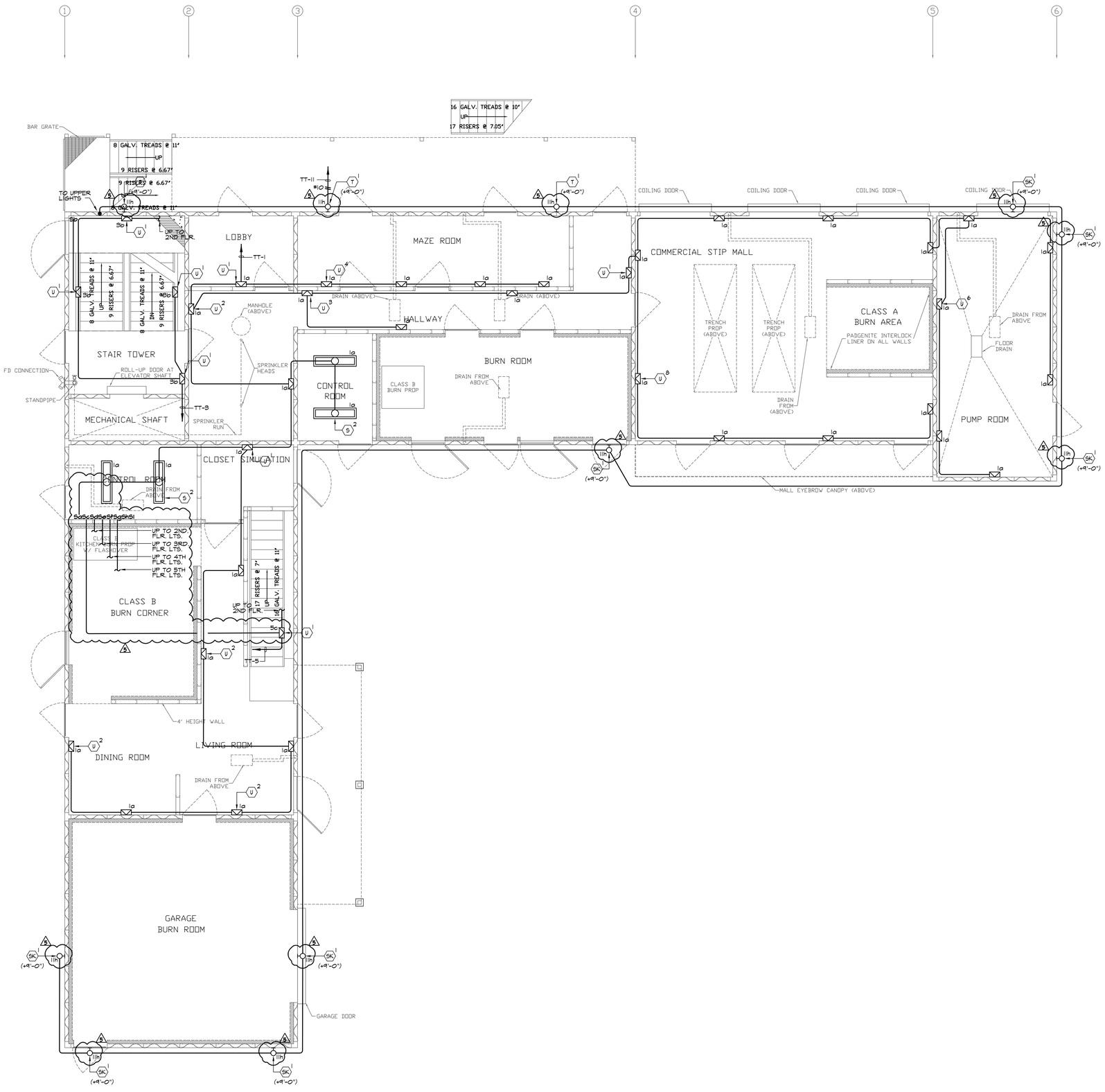
| # | REVISIONS | | |

DRAWN: LS | CHECKED: RES
DATE: 05/11/2025 | SCALE: AS NOTED
PROJECT NUMBER: W2100100AR

SIGNAL PLAN

DRAWING NUMBER: E2.3

BID SET_ADDENDUM 5




FIRST FLOOR TOWER LIGHTING PLAN

1/4" = 1'-0"

1

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS, AND BOXES FOR ALL RACEWAYS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/FIXTURES.
3. REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E0.3, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

NO EXPOSED CONDUIT WILL BE ALLOWED.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re:3d 03/31/27
STATE OF CALIFORNIA

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| NO | DATE | BY | DESCRIPTION |
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| 5 | 09/25/25 | | ADDENDUM 5 |
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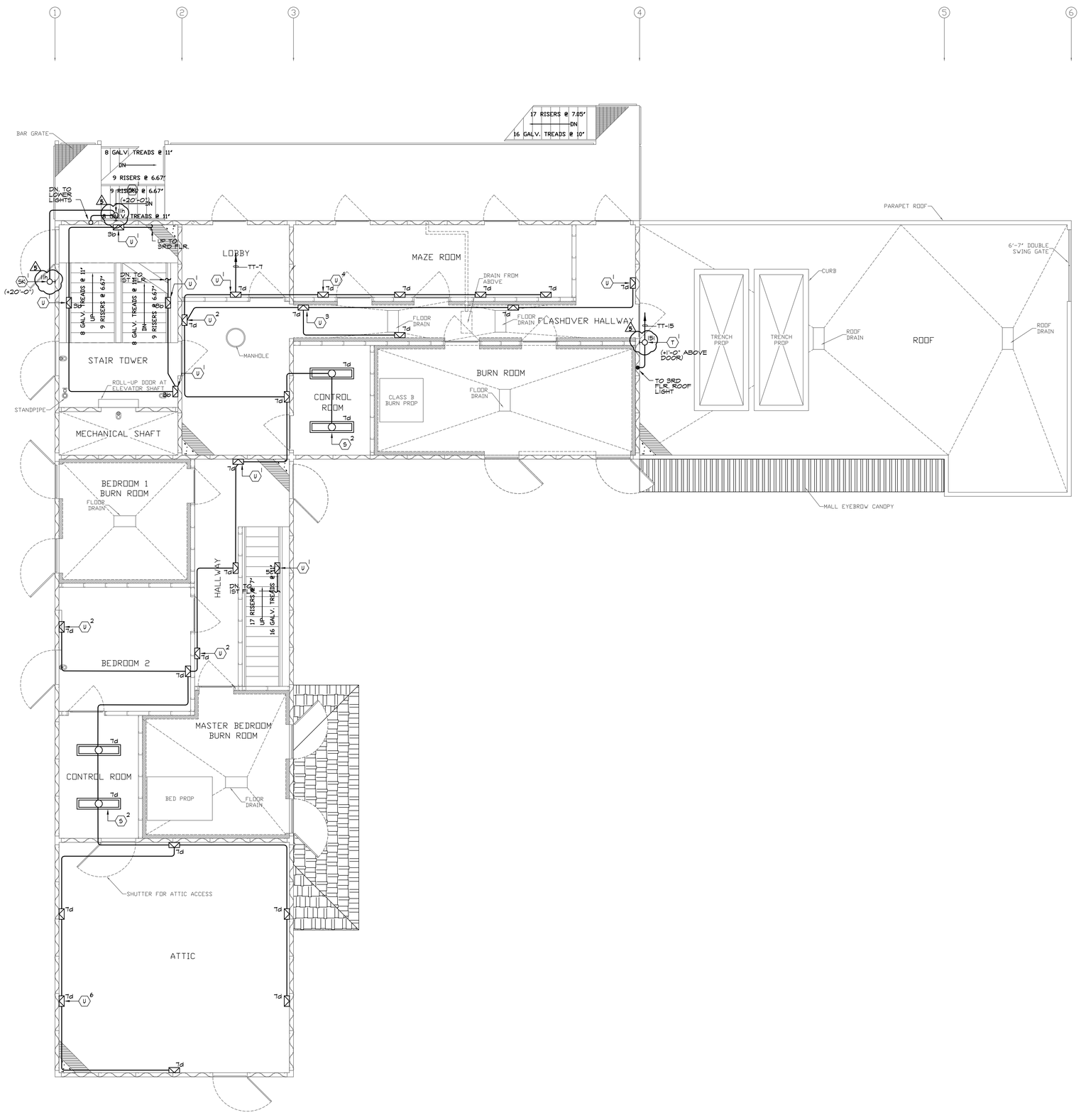
|---|---|
| DRAWN: LS | CHECKED: RES |
| DATE: 05/11/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

TRAINING TOWER LIGHTING PLANS

DRAWING NUMBER: E3.1

BID SET_ADDENDUM 5




SECOND FLOOR TOWER LIGHTING PLAN | 1/4" = 1'-0" | 1

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS, AND BOXES FOR ALL RACEWAYS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/FIXTURES.
3. REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E0.3, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

NO EXPOSED CONDUIT WILL BE ALLOWED.


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM — C-19064 — re-lic 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — RICARDO E. SOTELO — No. E17329 — 6/30/26 — STATE OF CALIFORNIA


CONSULTANT
A&F ENGINEERING GROUP, INC.
9320 BASELINE RD., SUITE C, RANCHO CUCAMONGA, CA 91701
TEL: (909) 941-3006 FAX: (909) 941-8211

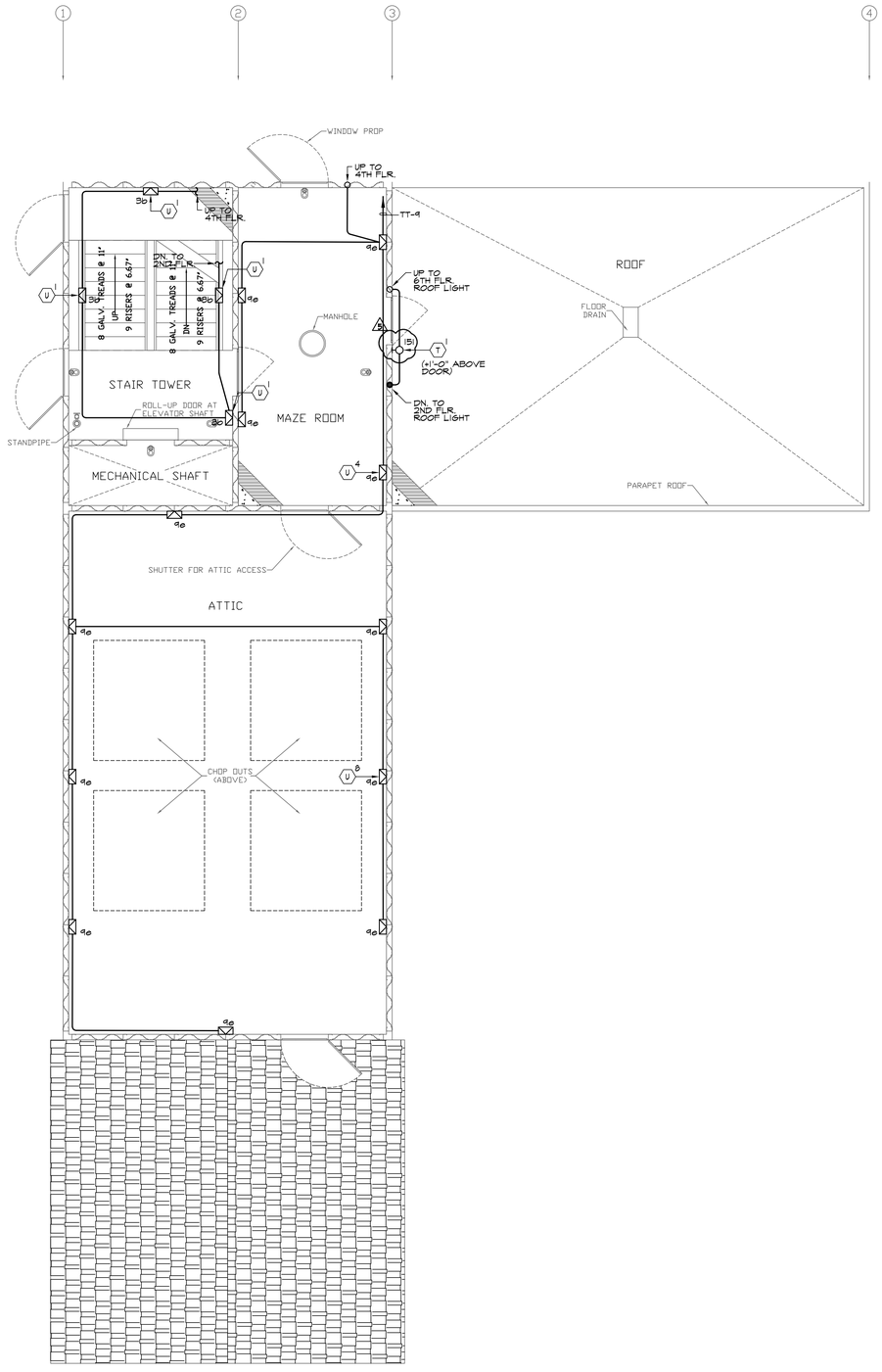

| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | REVISIONS |

| | |
|---|---|
| DRAWN: LS | CHECKED: RES |
| DATE: 05/11/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

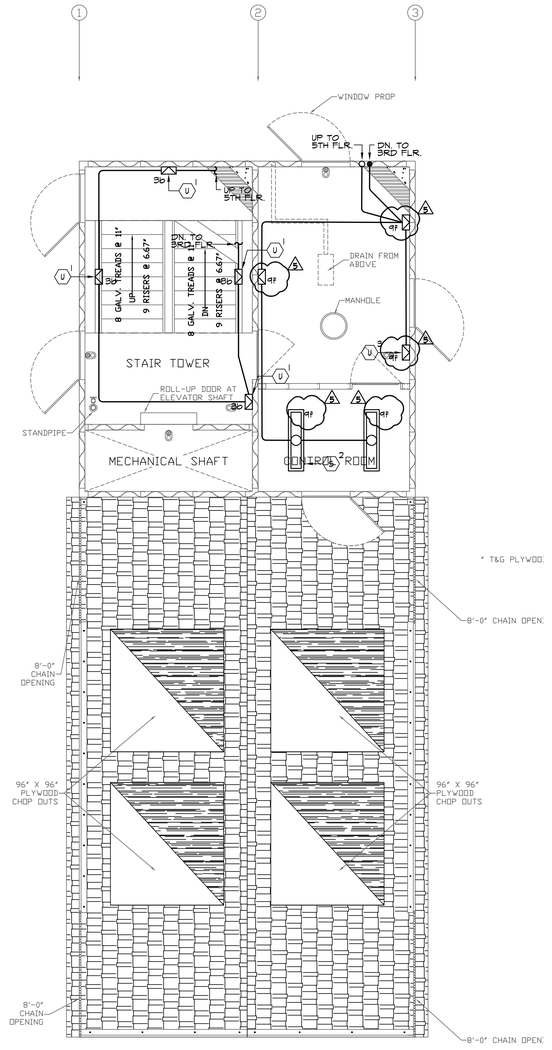
TRAINING TOWER LIGHTING PLAN

DRAWING NUMBER: E3.2

BID SET_ADDENDUM 5




THIRD FLOOR TOWER LIGHTING PLAN | 1/4" = 1'-0" | 1




FOURTH FLOOR TOWER LIGHTING PLAN | 1/4" = 1'-0" | 2

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS, AND BOXES FOR ALL RACEWAYS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/FIXTURES.
3. REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E0.3, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

NO EXPOSED CONDUIT WILL BE ALLOWED.


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM — C-19064 — Exp. 03/31/27 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — RICHARD E. SOTELO — No. E17229 — 6/30/26 — ELECTRICAL — STATE OF CALIFORNIA


CONSULTANT
A&F ENGINEERING GROUP, INC.
9320 BASELINE RD. SUITE C, RANCHO CUCAMONGA, CA 91701
TEL: (909) 941-3008 FAX: (909) 941-8211


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
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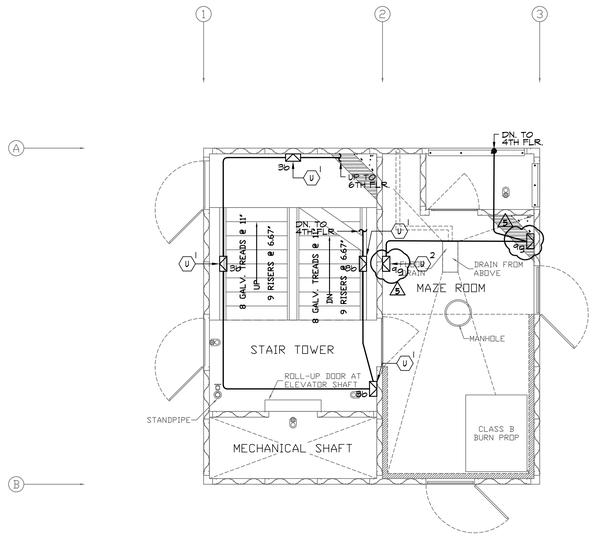
| # | REVISIONS | | |

| | |
|---|---|
| DRAWN: LS | CHECKED: RES |
| DATE: 05/11/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

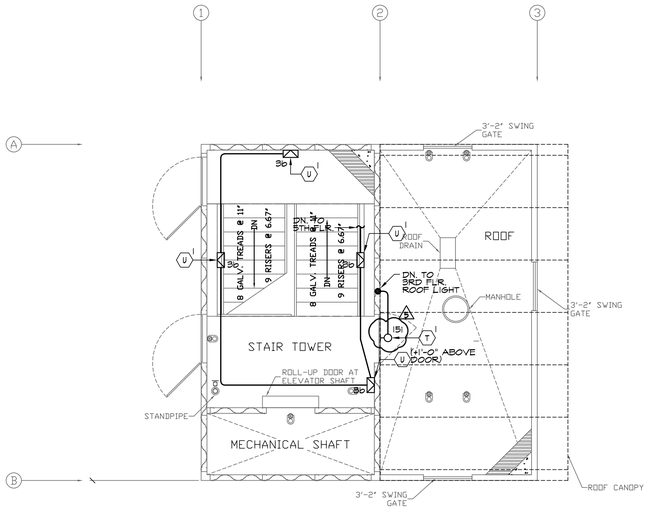
TRAINING TOWER LIGHTING PLANS

DRAWING NUMBER: E3.3

BID SET_ADDENDUM 5




FIFTH FLOOR TOWER LIGHTING PLAN | 1/4" = 1'-0" | 1




SIXTH FLOOR TOWER LIGHTING PLAN | 1/4" = 1'-0" | 2

PLAN NOTES:

1. REFER TO GENERAL NOTES, DRAWING E0.1, FOR ADDITIONAL REQUIREMENTS.
2. USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS, AND BOXES FOR ALL RACEWAYS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/FIXTURES.
3. REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E0.3, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

NO EXPOSED CONDUIT WILL BE ALLOWED.

PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT — KELLEY NEEDHAM — C-19064 — Exp. 03/31/27 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — BRANDO E. SOTELO — No. E17229 — 6/30/26 — STATE OF CALIFORNIA

CONSULTANT
A&F ENGINEERING GROUP, INC.
9320 BASELINE RD., SUITE C, RANCHO CUCAMONGA, CA 91701
TEL. (909) 941-3008 FAX (909) 941-8211

| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
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| 5 | REVISIONS | | |

| | |
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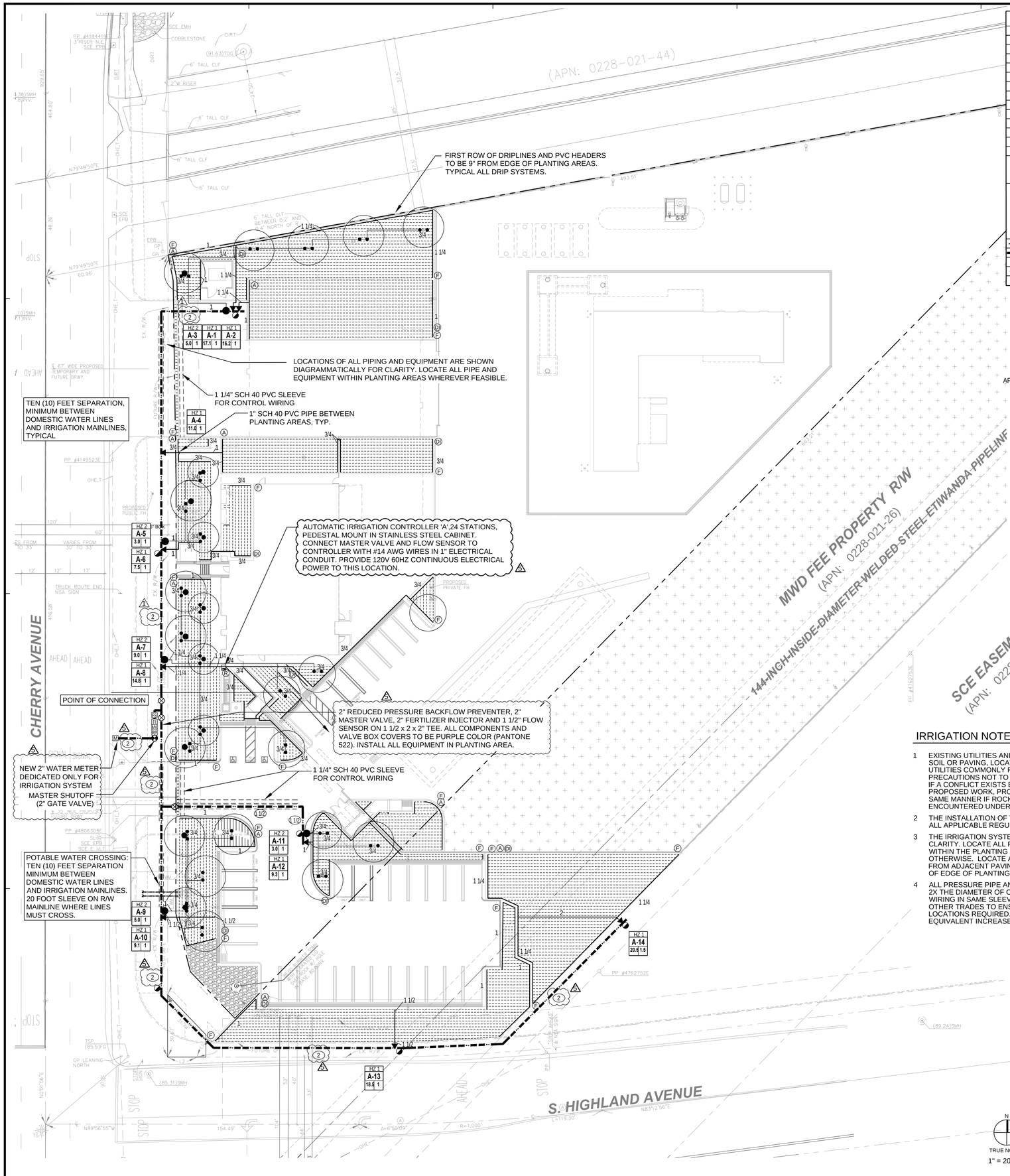
| DRAWN: LS | CHECKED: RES |
| DATE: 05/11/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

TRAINING TOWER LIGHTING PLANS

DRAWING NUMBER: E3.4

BID SET_ADDENDUM 5




## IRRIGATION LEGEND

| SYMBOL | DESCRIPTION | PSI | GPM | RAD | MFGR/MODEL |
|---|---|---|---|---|---|
| ● | ROOT WATERING SYSTEM, TWO PER TREE | 25 | 0.50 | -- | RAIN BIRD RWS-M-B-1402 W/ PURPLE GRATE |
| ---------- | SUB SURFACE DRIPLINE, 18" SPACING, 18" O.C. | 25 | 0.015 | 18" | RAIN BIRD XFSP-09-18 |
| Ⓐ | DRIP IRRIGATION AIR/VACUUM RELIEF VALVE | | | | RAIN BIRD ARV-050 |
| Ⓕ | DRIP IRRIGATION FLUSH VALVE | | | | RAIN BIRD FLUSH CAP, ECP-15 OR APPROVED EQUAL |
| Ⓓ | DRIP IRRIGATION INDICATOR, 1/2" SIZE ON PVC LATERAL | | | | HUNTER ECO-ID |
| ⊗ | SHUT-OFF VALVE, LINE SIZE, W/ BRONZE CROSS HANDLE (PURPLE) | | | | NIBCO T-113-LF-K |
| ◪ | QUICK COUPLER VALVE | | | | RAIN BIRD 44NP ACME |
| M | WATER METER | | | | NEW, PER CITY STANDARDS |
| MV | MASTER VALVE | | | | RAIN BIRD 200-PESBR |
| ▼ | REMOTE CONTROL VALVE FOR DRIP SYSTEMS | | | | RAIN BIRD XCZ-100 PRBR & 150-LCDR |
| ● | REMOTE CONTROL VALVE FOR BUBBLER SYSTEMS (PURPLE HANDLE COVER) | | | | RAIN BIRD EFB-CP-PRS |
| FI | FERTILIZER INJECTOR | | | | EZO 10-HC |
| FS | FLOW SENSOR | | | | FLOMEC |
| RP | REDUCED PRESSURE BACKFLOW PREVENTER W/ STRAINER & REGULATOR, LEAD FREE (SET REGULATOR TO 50 PSI). PAINT HANDLES W/ PURPLE (PANTONE 522) EPOXY PAINT. Ⓐ | | | | WILKINS 375XL LEAD FREE W/ 500XL STRAINER/REGULATOR IN STAINLESS STEEL STRONGBOX SBBC-45SS ENCLOSURE |
| ☐ ® | AUTOMATIC IRRIGATION CONTROLLER, 24 STATIONS, PEDESTAL MOUNT IN APPROVED STAINLESS STEEL EDISON ENCLOSURE. INSTALL RAIN SENSOR ON CABINET. | | | | TORO ISA5-TO1-18/DXI-GPRS/RMRX/ RMRX/RMPM/DXI-TRAN/DXI-OPB WITH HUNTER MINI-CLIK RAIN SENSOR IN APPROVED STAINLESS STEEL EDISON METER BOX ENCLOSURE. CONTACT IMPERIAL SPRINKLER SUPPLY 714-696-7535 FOR THE CITY OF FONTANA METER/CONTROLLER. Ⓑ |
| ——— | LATERAL (NON-PRESSURE) PIPING, SIZE AS SHOWN | | | | SCH 40 PVC PURPLE |
| — — — | MAIN LINE (PRESSURE) PIPING, SIZE AS SHOWN | | | | SCH 40 PVC PURPLE |
| = = = | SLEEVE, PER PLAN, 2x DIAM OF CARRYING PIPE, MIN. | | | | SCH 40 PVC PURPLE |
| - - - | SENSOR WIRING BETWEEN POC SENSORS AND CONTROLLER | | | | MIN 14 GAUGE WIRES IN 1" ELEC CONDUIT |
| ——W—— | POTABLE WATER LINE | | | | SEE CIVIL DRAWINGS |

ALL EQUIPMENT AND COMPONENTS ARE TO BE RECYCLED WATER READY, WITH MANUFACTURER'S OPTIONS, AND PAINTED PANTONE 522 PURPLE WITH EPOXY BASED PAINT WHERE PURPLE PARTS ARE NOT AVAILABLE.

| | HZ1 | HYDROZONE |
|---|---|---|
| CONTROLLER | A-1 | SEQUENCE NUMBER |
| APPROXIMATE GPM | 12 \| 1 | VALVE SIZE, INCHES |

| HYDROZONES | |
|---|---|
| 1 | SHRUB/GC MIXED - DRIP |
| 2 | TREES - BUBBLERS |
| 3 | SHADED MIX - DRIP |

I HAVE COMPLIED WITH THE CRITERIA OF THE MWELO ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

WOO JUNG KIM — 5/29/2025
APPLICANT

| PRESSURE INFORMATION | |
|---|---|
| STATIC PRESSURE | 98.0 PSI |
| FROM FIRE HYDRANT #4424F MARCH 8, 2023 | |
| SAN GABRIEL VALLEY WATER COMPANY | |

ALL IRRIGATION ON SITE WILL BE FROM RECYCLED WATER IN THE FUTURE AND THE ETAF IS LESS THAN 1.0

| IRRIGATION PRESSURE CALCULATIONS VALVE NO. A-14 1 1/2" SIZE 20.5 GPM | |
|---|---|
| METER 2" | 0.40 PSI |
| SERVICE LINE, 2' | 0.40 PSI |
| 1 1/2" RP BACKFLOW PREVENTER | 11.00 PSI |
| FLOW SENSOR | 0.50 PSI |
| MASTER VALVE, 2" | 3.00 PSI |
| MAINLINE 2", 400ft | 1.34 PSI |
| MAINLINE FITTINGS (10%) | 0.13 PSI |
| GATE VALVES | 1.00 PSI |
| REMOTE CONTROL VALVE | 2.30 PSI |
| LATERALS | 1.50 PSI |
| FITTINGS (5%) | 0.15 PSI |
| TOTAL LOSSES | 21.72 PSI |
| DRIP LINE OPERATING PRESSURE | 25.00 PSI |
| ELEVATION | -- |
| PRESSURE REQUIRED | 46.72 PSI |
| STATIC PRESSURE - REGULATED | 60.00 PSI |
| RESIDUAL PRESSURE | 13.28 PSI |

## IRRIGATION NOTES

1. EXISTING UTILITIES AND CONDITIONS: PRIOR TO CUTTING INTO THE SOIL OR PAVING, LOCATE ALL CABLES, CONDUITS, AND OTHER UTILITIES COMMONLY FOUND UNDERGROUND, AND TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH IMPROVEMENTS. IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK, PROMPTLY NOTIFY THE OWNER. PROCEED IN THE SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.
2. THE INSTALLATION OF THE IRRIGATION SYSTEM SHALL CONFORM TO ALL APPLICABLE REGULATIONS AND CODES.
3. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE ALL PIPING, EQUIPMENT AND APPURTENANCES WITHIN THE PLANTING AREAS SHOWN UNLESS NOTED OR DIRECTED OTHERWISE. LOCATE ALL VALVES AND VALVE BOXES 6" MIN., 12" MAX FROM ADJACENT PAVING. LOCATE PRESSURE MAIN LINES WITHIN 18" OF EDGE OF PLANTING AREAS.
4. ALL PRESSURE PIPE AND WIRING UNDER PAVING SHALL BE SLEEVED, 2X THE DIAMETER OF CARRYING PIPE. ADD TO SIZE IF CARRYING WIRING IN SAME SLEEVE. COORDINATE SLEEVE INSTALLATION WITH OTHER TRADES TO ENSURE PROPER AND TIMELY INSTALLATION IN LOCATIONS REQUIRED. PIPES MAY BE SLEEVED TOGETHER IF AN EQUIVALENT INCREASE IN SLEEVE SIZE IS MADE.
5. USE TEFLON PIPE TAPE ON ALL THREADED CONNECTIONS.
6. SYSTEM DESIGN IS BASED ON STATIC PRESSURE OF 70 PSI, REGULATED TO 60 PSI OPERATING PRESSURE.
7. WIRING IS BASED ON THE USE OF ONE 24 VOLT DC REMOTE CONTROL VALVE OPERATING AT ONE TIME.
8. UNLESS NOTED OTHERWISE ON PLANS, LATERAL END RUNS ARE TO BE 3/4" SIZE.
9. CONTRACTOR SHALL SECURE & COORDINATE CONNECTIONS FOR 120 VAC 60 HZ ELECTRICAL SERVICE TO CONTROLLER LOCATION.
10. SET UP CONTROLLER TO ACHIEVE OPTIMUM WATERING BASED ON WATER USE CALCULATIONS.
11. ALL CONTROL WIRING TO BE 14 GAUGE MINIMUM. PROVIDE FOUR (4) SPARE WIRES, SOLID RED COLOR, ONE (1) COMMON WIRE, WHITE WITH RED STRIPE. SPARE WIRES MUST BE ACCESSIBLE AT ALL VALVES AND MUST HAVE 24" OF LOOP WIRE. SPARE WIRES MUST BE INSTALLED IN A 10" ROUND VALVE BOX AT THE ENDS OF EACH BRANCH OF THE MAINLINE. IDENTIFY WIRES AS EXTRA WITH TAGS AT THE CONTROLLER AND AT VALVES.
12. END RUNS OF ALL DRIP LINES ARE TO INCLUDE A FLUSH VALVE ASSEMBLY.
13. PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
14. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
15. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
16. NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL THE CITY LANDSCAPE INSPECTOR HAS VERIFIED THAT ALL IRRIGATION, GRADING, AND PLANTING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS OF FCC SECTION 28-117 AT TIME OF FINAL INSPECTION.
17. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED PER FCC SECTION 28-106 AT TIME OF FINAL INSPECTION.
18. WATER SUPPLY FOR IRRIGATION ON THIS PROJECT IS POTABLE WATER, ABLE TO USE RECLAIMED WATER WHEN AVAILABLE.

PLAN CHECK NUMBER: LSPC24-00023

DIAL BEFORE YOU DIG 1-800-422-4133 DIGALERT
PLAY IT SAFE. DIAL BEFORE YOU DIG! AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING
SERVING NINE SOUTHERN CALIFORNIA COUNTIES

| CITY OF FONTANA, CALIFORNIA | | |
|---|---|---|
| IRRIGATION PLAN | | |
| DRAWN BY: RB | FONTANA FIRE STATION NO. 80<br>6585 CHERRY AVENUE, FONTANA, CA 92336 | SCALE: 1" = 20'-0" |
| DESIGNED BY: RB | IRRIGATION PLAN | DATE: 06/05/2025 |
| CHECKED BY: JK | APPROVED BY: GIA LAM KIM / CITY ENGINEER<br>CITY ENGINEER R.C.E.62296 | DATE: DRAWING NO. |

**RANCHO CUCAMONGA**
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P

# FONTANA FIRE STATION No. 80 & TRAINING CENTER

**SAN BERNARDINO COUNTY FIRE DEPARTMENT**
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

KELLEY NEEDHAM C-19064 license 03/31/27 — LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA
WOO JUNG KIM 6025 — LICENSED LANDSCAPE ARCHITECT — 30 April 2026 Renewal Date — STATE OF CALIFORNIA

**CONSULTANT**
CORNERSTONE STUDIOS, INC.
951 E Santa Ana Blvd. Santa Ana, CA 92701
714. 973. 2200 Voice
714. 973. 0203 Fax
LANDSCAPE ARCHITECTURE • URBAN DESIGN • PLANNING • RESOURCE ANALYSIS

| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| Δ | 09/25/25 | | ADDENDUM 5 |
| Δ | | | |
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| Δ | | | |
| # | REVISIONS | | |

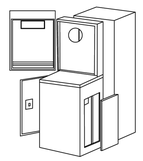
| | |
|---|---|
| DRAWN: RB | CHECKED: JK |
| DATE: 08/12/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

IRRIGATION PLAN

DRAWING NUMBER: L1.1
SHEET 2 OF 7

BID SET_ADDENDUM 5

Revised 3-30-2022 KBS



EXACT LOCATION OF CONTROLLER SHALL BE AGREED UPON BY EDISON, CITY LANDSCAPE INSPECTOR AND CONTRACTOR PRIOR TO ANY TRENCHING OR WIRE PLACEMENT

GENERAL NOTES:

PROVIDE 100A METER AND 50A/2P MAIN C/B WHERE INDICATED ON DRAWINGS

PROVIDE PANELBOARD WHERE INDICATED ON DRAWINGS.

PROVIDE IRRIGATION CONTROLLER CABINET WHERE INDICATED ON DRAWINGS.

TERMINATE AT EXISTION HANDHOLE. PER S.C.E. COMPANY REQ. VERIFY EXACT LOCATION AND TERMINATION REQ. WITH S.C.E. CO. PRIOR TO TRENCHING

CONDUIT AND CONDUCTOR SIZES ARE BASED ON NONMETALLEC CONDUIT AND COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION.

ASSEMBLY MODEL # ISA5-TO1-XX/DXI-GPRS/RMRX/RMPM/DXI-TRAN/DXI-OPB

NOTE: "XX" IS FOR STATION COUNT IN INCREMENTS OF 8
(08, 16, 24,32, 40, 48,.....96)

LOCATION AND POSITIONING OF CABINETS NEED TO VERIFIED AND APPROVED BY THE ENGINEERING PUBLIC WORKS INSPECTOR PRIOR TO ANY INSTALLATIONS

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

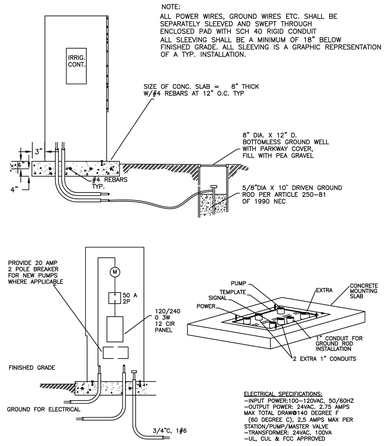
APPROVED BY: 3-15-22
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS
DATE OF LAST REVISION: 02-07-22

CITY OF FONTANA

IRRIGATION CONTROLLER

STD. PLAN NO. 5005 | SHT 1 OF 3

Revised 3-30-2022 KBS




REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

APPROVED BY: 3-15-22
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS
DATE OF LAST REVISION: 02-07-22

CITY OF FONTANA

IRRIGATION CONTROLLER

STD. PLAN NO. 5005 | SHT 2 OF 3

Revised 3-30-2022 KBS

City of Fontana
Irrigation Controller Standard
For Communities Facilities Districts

(CFD)

Toro DXi for Sentinel WMS controller installed in an approved stainless steel Edison meter box enclosure.

Contact Imperial Technical Services with the following numbers for the City of Fontana meter/controller. Phone: (714) 696-7535

Fontana Assembly Model # for controller:
ISA5-TO1-XX/DXI-GPRS/RMRX/RMRX/RMPM/DXI-TRAN/DXI-OPB
Note: "XX" is for station count in increments of 8 (08, 16, 24,32, 40, 48,.....96)

Required items to be included with each controller installed:

1. DXi-OPB08 Toro 8 station output board.
2. PROMAX: Rain Master Maintenance Remote Kit, coded "123" for City of Fontana
3. DXI-TRAN-120-60-50-50VA 24VAC Transformer
4. After controller installation contact Imperial Technical Services to schedule inspection for certification which is required prior starting 90 day maintenance

   (Note: Items 1.,2., & 3.: No need to order these extra items-They are included in the Assembly Model #)

Contact:

Imperial Technical Services
Phone: (714) 696-7535

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

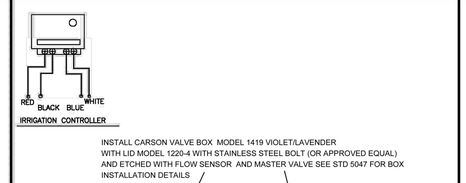
APPROVED BY: 3-15-22
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS
DATE OF LAST REVISION: 02-07-22

CITY OF FONTANA

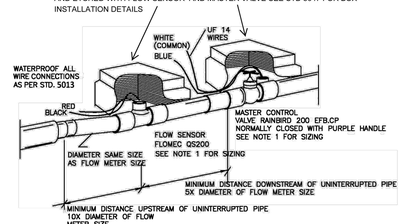
IRRIGATION CONTROLLER

STD. PLAN NO. 5005 | SHT 3 OF 3

Revised 3-30-2022 KBS




INSTALL CARSON VALVE BOX MODEL 1419 VIOLET/LAVENDER WITH LID MODEL 1220-4 WITH STAINLESS STEEL BOLT (OR APPROVED EQUAL) AND ETCHED WITH FLOW SENSOR AND MASTER VALVE SEE STD 5047 FOR BOX INSTALLATION DETAILS




NOTES:
1. MASTER VALVE AND FLOW SENSOR TO MATCH MAINLINE SIZE
2. MAXIMIZE THE DISTANCE BETWEEN THE MASTER VALVE AND THE FLOW SENSOR

ALL EQUIPMENT TO INCLUDE PURPLE COLORED (PANTONE 522) COMPONENTS AND A RECYCLED WATER ID TAG

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

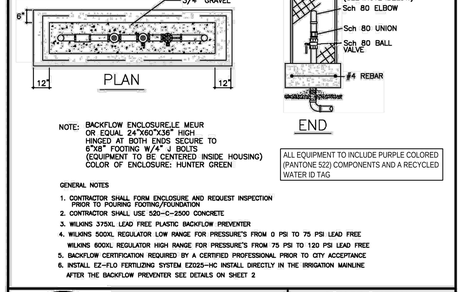
APPROVED BY: 3/15/22
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS

CITY OF FONTANA

FLOW METER/ MASTER VALVE

STD. PLAN NO. 5010 | SHT 1 OF 1

Revised 3-30-2022 KBS




NOTE: BACKFLOW ENCLOSURE,LE MEUR OR EQUAL 24"X60"X36" HIGH HINGED AT BOTH ENDS SECURE TO 6"X8" FOOTING W/4" J BOLTS (EQUIPMENT TO BE CENTERED INSIDE HOUSING) COLOR OF ENCLOSURE: HUNTER GREEN

ALL EQUIPMENT TO INCLUDE PURPLE COLORED (PANTONE 522) COMPONENTS AND A RECYCLED WATER ID TAG

GENERAL NOTES

1. CONTRACTOR SHALL FORM ENCLOSURE AND REQUEST INSPECTION PRIOR TO POURING FOOTING/FOUNDATION
2. CONTRACTOR SHALL USE 520-C-2500 CONCRETE
3. WILKINS 375XL LEAD FREE PLASTIC BACKFLOW PREVENTER
4. WILKINS 500XL REGULATOR LOW RANGE FOR PRESSURE'S FROM 0 PSI TO 75 PSI LEAD FREE
   WILKINS 600XL REGULATOR HIGH RANGE FOR PRESSURE'S FROM 75 PSI TO 120 PSI LEAD FREE
5. BACKFLOW CERTIFICATION REQUIRED BY A CERTIFIED PROFESSIONAL PRIOR TO CITY ACCEPTANCE
6. INSTALL EZ-FLO FERTILIZING SYSTEM EZ025-HC INSTALL DIRECTLY IN THE IRRIGATION MAINLINE AFTER THE BACKFLOW PREVENTER SEE DETAILS ON SHEET 2

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

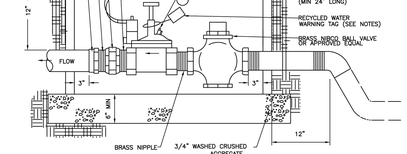
APPROVED BY: 12-2-19
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS
DATE OF LAST REVISION: 12-2-19

CITY OF FONTANA

TYP. BACKFLOW

STD. PLAN NO. 5007 | SHT 1 OF 2

Revised 3-30-2022 KBS




NOTES:

1. INSTALL CONTROL VALVES A MINIMUM OF 12" FROM ANY STRUCTURES OR HARDSCAPING WHENEVER POSSIBLE.
2. INSTALL VALVES IN PLANT BEDS WHEREVER POSSIBLE NEXT TO SIDEWALKS.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.
5. ATTACH PLASTIC IDENTIFICATION TAG WITH APPROPRIATE CONTROLLER AND VALVE NUMBER TO WIRE INSIDE VALVE BOX.
6. ALL VALVES MUST HAVE RECYCLED WATER VALVE TAGS (CHRISTY'S PURPLE MODEL NO. ID-MAX-P2-RC009) ATTACHED TO VALVES. ONLY WHEN RECYCLED WATER IS AVAILABLE AND CONNECTED.

ALL EQUIPMENT TO INCLUDE PURPLE COLORED (PANTONE 522) COMPONENTS AND A RECYCLED WATER ID TAG

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

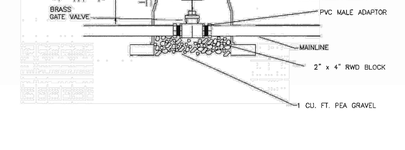
APPROVED BY: 3-15-22
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS
DATE OF LAST REVISION: 2-8-22

CITY OF FONTANA

TYP. BRASS REMOTE CONTROL VALVE DETAIL

STD. PLAN NO. 5011 | SHT 1 OF 1

Revised 3-30-2022 KBS




ALL EQUIPMENT TO INCLUDE PURPLE COLORED (PANTONE 522) COMPONENTS AND A RECYCLED WATER ID TAG

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 EXP. 6/30/25 CIVIL STATE OF CALIFORNIA

APPROVED BY: 3-15-2022
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS

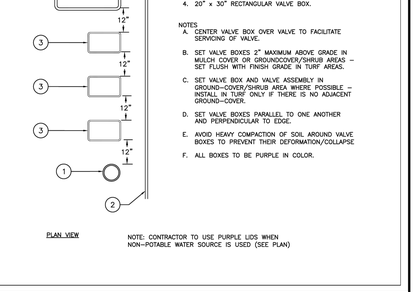
CITY OF FONTANA

GATE VALVE

STD. PLAN NO. 5019 | SHT 1 OF 1

Revised 3-30-2022 KBS

VALVE BOX LABELING NOTE:
HEAT BRAND ALL VALVE BOX COVERS IN 2" HIGH LETTER PER EQUIPMENT LOCATED WITHIN VALVE BOXES.
LABEL "GV" FOR ALL GATE VALVES
LABEL "QCV" FOR ALL QUICK COUPLING VALVES
LABEL "MV" FOR ALL MASTER VALVES
LABEL "VALVE STATION" FOR ALL CONTROL VALVES
LABEL "FM" FOR ALL FLOW MASTER VALVES
LABEL "FV" FOR ALL FLUSH VALVES
LABEL "AR" FOR ALL AIR RELIEF VALVES




LEGEND – USE CARSON VALVE BOXES.

1. 10" DIAMETER CIRCULAR VALVE BOX.
2. EDGE OF LAWN, WALK, FENCE, CURB, ETC
3. 14" x 19" RECTANGULAR VALVE BOX.
4. 20" x 30" RECTANGULAR VALVE BOX.

NOTES

A. CENTER VALVE BOX OVER VALVE TO FACILITATE SERVICING OF VALVE.
B. SET VALVE BOXES 2" MAXIMUM ABOVE GRADE IN MULCH COVER OR GROUNDCOVER/SHRUB AREAS – SET FLUSH WITH FINISH GRADE IN TURF AREAS.
C. SET VALVE BOX AND VALVE ASSEMBLY IN GROUND-COVER/SHRUB AREA WHERE POSSIBLE – INSTALL IN TURF ONLY IF THERE IS NO ADJACENT GROUND-COVER.
D. SET VALVE BOXES PARALLEL TO ONE ANOTHER AND PERPENDICULAR TO EDGE.
E. AVOID HEAVY COMPACTION OF SOIL AROUND VALVE BOXES TO PREVENT THEIR DEFORMATION/COLLAPSE
F. ALL BOXES TO BE PURPLE IN COLOR.

NOTE: CONTRACTOR TO USE PURPLE LIDS WHEN NON-POTABLE WATER SOURCE IS USED (SEE PLAN)

REGISTERED PROFESSIONAL ENGINEER RICARDO SANDOVAL No. 51152 CIVIL STATE OF CALIFORNIA

APPROVED BY: 3-15-22
CITY ENGINEER DATE
RICARDO SANDOVAL
REVIEWED BY: KS
DATE OF LAST REVISION: 2-10-22

CITY OF FONTANA

VALVE BOX INSTALLATION

STD. PLAN NO. 5047 | SHT 1 OF 1

PLAN CHECK NUMBER: LSPC24-00023

| CITY OF FONTANA, CALIFORNIA | | |
|---|---|---|
| IRRIGATION DETAILS | | |
| DRAWN BY: RB | FONTANA FIRE STATION NO. 80<br>6585 CHERRY AVENUE, FONTANA, CA 92336 | SCALE: NTS |
| DESIGNED BY: RB | IRRIGATION DETAILS | DATE: 06/05/2025 |
| CHECKED BY: JK | APPROVED BY: GIA LAM KIM / CITY ENGINEER DATE: R.C.E.62296 | DRAWING NO: |


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT KELLEY NEEDHAM C-19064 Re-Sat 03/31/27 STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT 2825 JUNG 30 April, 2026 Renewal Date STATE OF CALIFORNIA


CONSULTANT
CORNERSTONE STUDIOS, INC.
951 E Santa Ana Blvd. Santa Ana, CA 92701
714. 973. 2200 Voice
714. 973. 0203 Fax
LANDSCAPE ARCHITECTURE ★ URBAN DESIGN ★ PLANNING ★ RESOURCE ANALYSIS


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
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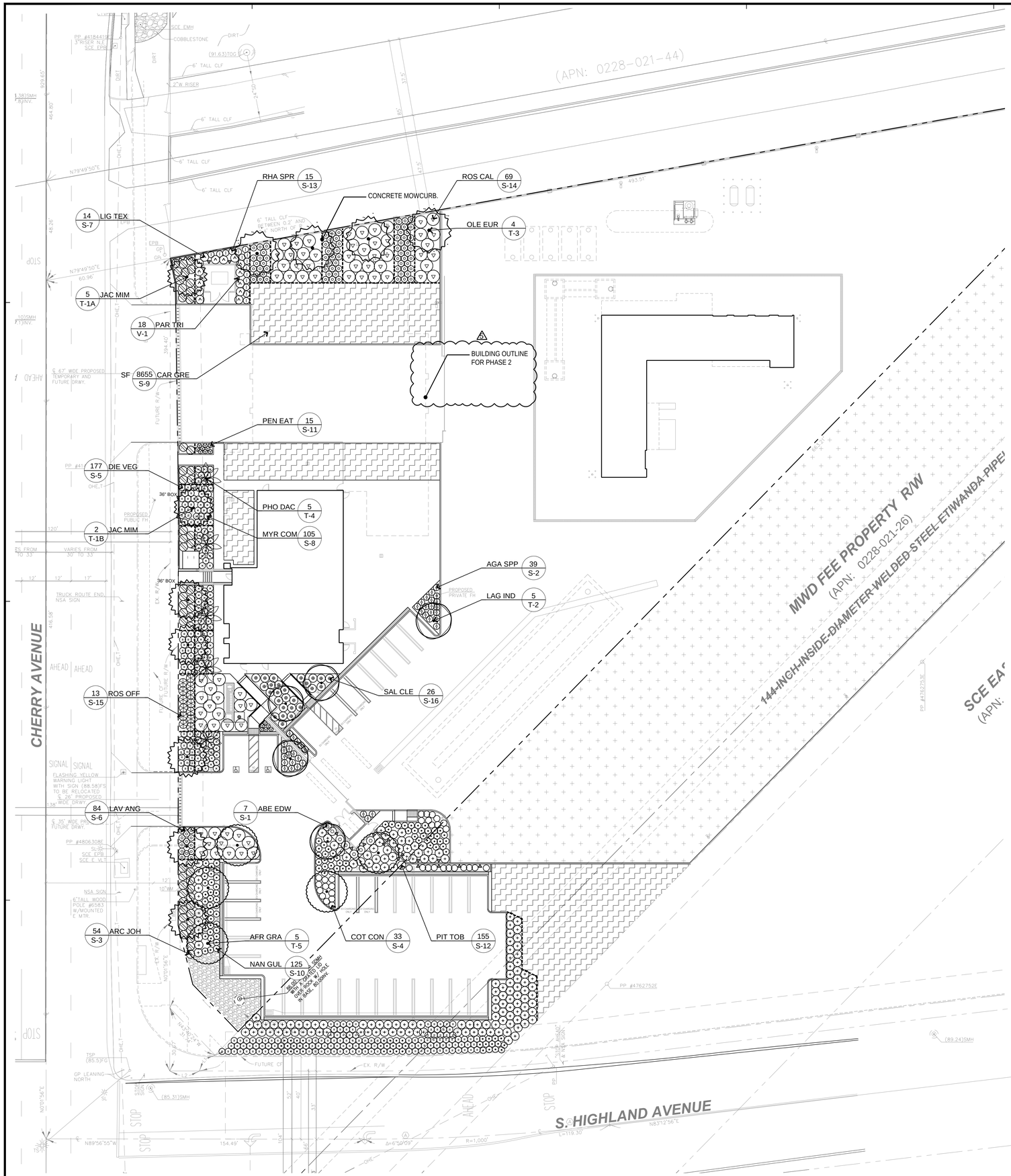
| | | | |
| # | REVISIONS | | |

| | |
|---|---|
| DRAWN: RB | CHECKED: JK |
| DATE: 08/12/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

IRRIGATION DETAILS

DRAWING NUMBER: L1.2
SHEET 3 OF 7

BID SET_ADDENDUM 5




## PLANTING LEGEND

| SYMBOL | BOTANICAL NAME | COMMON NAME | SIZE | QTY. | WUCOLS | DETAIL REF. |
|---|---|---|---|---|---|---|
| **TREES** | | | | | | |
| T-1A (36" BOX) | JACARANDA MIMOSIFOLIA | JACARANDA | SINGLE TRUNK, MIN. 1.5", 24" BOX | 5 | M | DETAIL A, E/ SHEET L-2.2 |
| T-1B | JACARANDA MIMOSIFOLIA | JACARANDA | SINGLE TRUNK, MIN. 2.5", 36" BOX | 2 | M | DETAIL A, E/ SHEET L-2.2 |
| T-2 | LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ' | NATCHEZ CRAPE MYRTLE | SINGLE TRUNK, MIN. 1.5", 24" BOX | 5 | M | DETAIL A, E/ SHEET L-2.2 |
| T-3 | OLEA EUROPAEA 'SWAN HILL' | SWAN HILL OLIVE | SINGLE TRUNK, MIN. 1.5", 24" BOX | 4 | L | DETAIL A, E/ SHEET L-2.2 |
| T-4 | PHOENIX DACTYLIFERA | DATE PALM | 25 FEET BROWN TRUNK HEIGHT (3) | 5 | L | (3) DETAIL F/ SHEET L-2.2 |
| T-5 | AFROCARPUS GRACILIOR | FERN PINE | SINGLE TRUNK, MIN. 1.5", 24" BOX | 5 | M | DETAIL A, E/ SHEET L-2.2 |
| **SHRUBS / GROUNDCOVER** | | | | | | |
| S-1 | ABELIA X 'EDWARD GOUCHER' | EDWARD GOUCHER ABELIA | 5 GAL. @ 4' O.C. | 7 | M | DETAIL B, F/ SHEET L-2.2 |
| S-2 | AGAPANTHUS SPP | LILY OF THE NILE | 5 GAL. @ 3' O.C. | 39 | M | DETAIL B, F/ SHEET L-2.2 |
| S-3 | ARCTOSTAPHYLOS 'JOHN DOURLEY' | JOHN DOURLEY MANZANITA | 5 GAL. @ 4' O.C. | 54 | L | DETAIL B, F/ SHEET L-2.2 |
| S-4 | COTONEASTER CONGESTUS 'LIKIANG' | PYRENEES COTONEASTER LIKIANG | 5 GAL. @ 3' O.C. | 33 | M | DETAIL B, F/ SHEET L-2.2 |
| S-5 | DIETES VEGETA | FORTNIGHT LILY | 5 GAL. @ 3' O.C. | 177 | M | DETAIL B, F/ SHEET L-2.2 |
| S-6 | LAVANDULA ANGUSTIFOLIA | ENGLISH LAVENDER | 5 GAL. @ 3' O.C. | 84 | L | DETAIL B, F/ SHEET L-2.2 |
| S-7 | LIGUSTRUM 'TEXANUM' | TEXAS PRIVET | 5 GAL. @ 4' O.C. | 14 | M | DETAIL B, F/ SHEET L-2.2 |
| S-8 | MYRTUS COMMUNIS 'COMPACTA' | DWARF MYRTLE | 5 GAL. @ 3' O.C. | 105 | M | DETAIL B, F/ SHEET L-2.2 |
| S-9 | CARISSA 'GREEN CARPET' | GREEN CARPET NATAL PLUM | 5 GAL. @ 5' O.C. | 8,655 SF (435) | L | DETAIL B, F/ SHEET L-2.2 |
| S-10 | NANDINA 'GULF STREAM' | HEAVENLY BAMBOO | 5 GAL. @ 3' O.C. | 125 | M | DETAIL B, F/ SHEET L-2.2 |
| S-11 | PENNISETUM 'EATON CANYON' | EATON CANYON FOUNTAIN GRASS | 5 GAL. @ 2' O.C. | 15 | L | DETAIL B, F/ SHEET L-2.2 |
| S-12 | PITTOSPORUM TOBIRA | DWARF MOCK ORANGE | 5 GAL. @ 4' O.C. | 155 | M | DETAIL B, F/ SHEET L-2.2 |
| S-13 | RHAPHIOLEPIS 'SPRINGTIME' | PINK INDIA HAWTHORN | 5 GAL. @ 3' O.C. | 15 | M | DETAIL B, F/ SHEET L-2.2 |
| S-14 | ROSA CALIFORNICA | CALIFORNIA WILDROSE | 5 GAL. @ 6' O.C. | 69 | L | DETAIL B, F/ SHEET L-2.2 |
| S-15 | ROSMARINUS OFFICINALIS | ROSEMARY | 5 GAL. @ 4' O.C. | 13 | L | DETAIL B, F/ SHEET L-2.2 |
| S-16 | SALVIA CLEVELANDII | CLEVELAND BLUE SAGE | 5 GAL. @ 4' O.C. | 26 | L | DETAIL B, F/ SHEET L-2.2 |
| **VINES** | | | | | | |
| V-1 | PARTHENOCISSUS TRICUSPIDATA | BOSTON IVY | 5 GAL. @ 10' O.C. | 18 | M | DETAIL C/ SHEET L-2.2 |

LANDSCAPE CONCRETE MOWCURB

## LANDSCAPE COVERAGE CALCULATION:

| | |
|---|---|
| SITE | 98,855 S.F. |
| SITE LANDSCAPE | 16,977 S.F. |
| SITE LANDSCAPED AREA PERCENTAGE | 17% |
| MWD SITE | 69,504 S.F. |
| MWD SITE LANDSCAPE | 7,061 S.F. |
| MWD LANDSCAPED AREA PERCENTAGE | 10% |
| TOTAL (SITE + MWD SITE) | 168,359 S.F. |
| TOTAL LANDSCAPED AREA (SITE + MWD SITE) | 24,038 S.F. |
| TOTAL LANDSCAPED AREA PERCENTAGE | 14% |

BOTANICAL NAME (ABBREVIATED) / PLANT COUNT / PLANT REF. — SF 100 SPE GEN A-1 — SPE GEN 100 SF A-1

DIAL BEFORE YOU DIG 1-800-422-4133 — DIGALERT — PLAY IT SAFE. DIAL BEFORE YOU DIG! — AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING — SERVING NINE SOUTHERN CALIFORNIA COUNTIES

PLAN CHECK NUMBER: LSPC24-00023

TRUE NORTH
1" = 20'-0"

| CITY OF FONTANA, CALIFORNIA | | |
|---|---|---|
| LANDSCAPE PLAN | | |
| DRAWN BY: JL | FONTANA FIRE STATION NO. 80<br>6585 CHERRY AVENUE, FONTANA, CA 92336 | SCALE: 1" = 20'-0" |
| DESIGNED BY: JK | LANDSCAPE PLAN | DATE: 06/05/2025 |
| CHECKED BY: JK | APPROVED BY: GIA LAM KIM / CITY ENGINEER<br>CITY ENGINEER R.C.E.62296 | DATE: DRAWING NO. |


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

KELLEY NEEDHAM C-19064 lic.ba: 03/31/27 — LICENSED ARCHITECT — STATE OF CALIFORNIA

LICENSED LANDSCAPE ARCHITECT — JUNG 30 April 2026 — STATE OF CALIFORNIA


CONSULTANT
CORNERSTONE STUDIOS, INC.
951 E Santa Ana Blvd, Santa Ana, CA 92701
714. 973. 2200 Voice
714. 973. 0203 Fax
LANDSCAPE ARCHITECTURE • URBAN DESIGN • PLANNING • RESOURCE ANALYSIS


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
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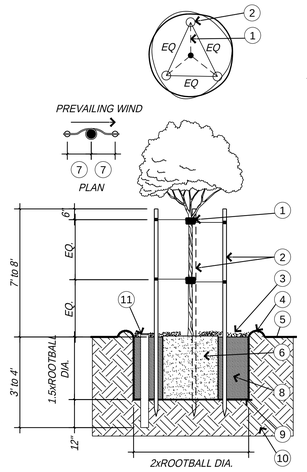
| # | REVISIONS | | |

| | |
|---|---|
| DRAWN: JL | CHECKED: JK |
| DATE: 08/12/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

LANDSCAPE PLAN

DRAWING NUMBER: L2.1
SHEET 6 OF 7

BID SET_ADDENDUM 5



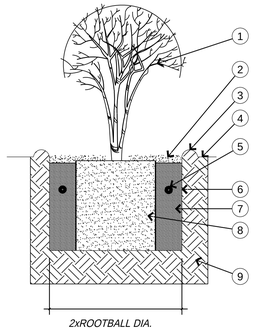

### Detail Legend

1. TREE SUPPORT, BLACK CORDED RUBBER HOSE, SECURE TO THE POLE WITH GALV. NAIL AND CONNECTED WITH 12" GAUGE GALV. WIRE TO POST.
2. (3) PLUMB LODGEPOLE TREE STAKE, 2"x10'-0". STAKE SHALL NOT PIERCE ROOTBALL AND SHALL EXTEND INTO UNDISTURBED SOIL.
3. KEEP 3" THICK LAYER OF ORGANIC MULCH 6" CLEAR OF TREE TRUNK AND 8' DIAMETER MULCH FOR NEW TREES.
4. FLOOD 3" DEEP WATER BASIN TO PLUMB TREE TRUNK & SET GRADE OF ROOTBALL
5. FINISH GRADE
6. ROOTBALL, INSTALL 2" ABOVE GRADE.
7. 12" FOR MDL TB24 FOR 15 GAL TREE OR 18" FOR MDL TB36 FOR 24" TO 36" BOX
8. SEE SPECS FOR AMMENDED BACKFILL MIX.
9. SCARIFY PLANTING PIT EDGE
10. SITE SOIL, UNDISTURBED
11. FILL 3" PERF. PIPE W/ 3/4" CRUSHED ROCK CAP w/ ATRIUM GRATE. FOR 24" BOX & LARGER, UNLESS INDICATED OTHERWISE BY OWNER'S (OR CITY'S) REPRESENTATIVE

NOTE: MIN. (4) FLEXIBLE TIES [TOP & BOTTOM] REQUIRED. HOLD TREE IN UPRIGHT POSITION. TREE TIES TO BE HIGH IN THE CANOPY FOR WIND PROTECTION.

## A TREE PLANTING (TRIPLE STAKE)

N.T.S.

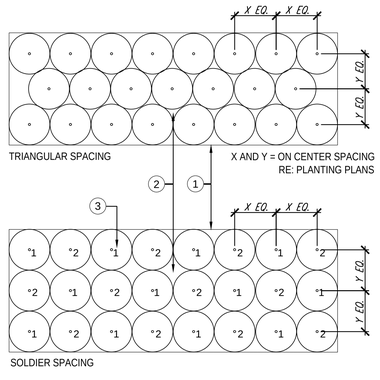



### Detail Legend

1. SHRUB, 1 OR 5 GAL
2. KEEP 2" LAYER OF ORGANIC MULCH 6" CLEAR FROM PLANT CROWN.
3. FLOOD & SETTLE 3" DEEP WATER BASIN TO PLUMB PLANT STEM (TO GRADE) AND SET GRADE OF ROOTBALL
4. FINISH GRADE
5. FERTILIZER TABLET, SEE SPECS.
6. SCARIFY ALL SIDES OF PLANTING PIT
7. SEE PLANTING SPEC. FOR AMMENDED BACKFILL MIX
8. PLANT ROOTBALL 1/2" ABOVE FINISH GRADE & LOOSEN ROOTS IF NECESSARY.
9. SITE SOIL, UNDISTURBED

## B SHRUB PLANTING

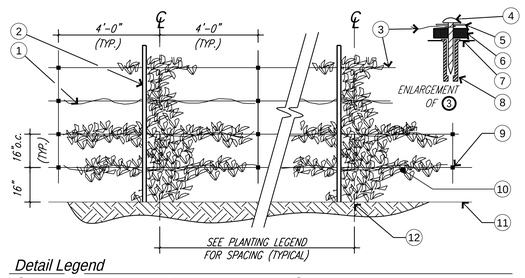
N.T.S.




1. EDGE OF PLANTING BED OR ADJACENT HARDSCAPE. GROUND COVER AND SHRUB SPACING MUST SHOW AN 18" - 24" MINIMUM SETBACK, OR AS NEEDED FROM PAVING (DEPENDING UPON SPECIES USED)
2. PLANT SPACING AS PER PLANS
3. ALTERNATION SEQUENCE WHEN TWO PLANT SPECIES OCCUR IN THE SAME PLANTING AREA

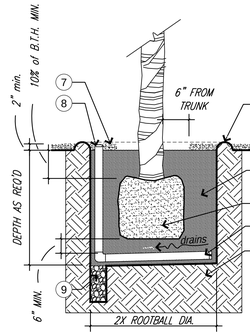
## C VINE PLANTING

N.T.S.



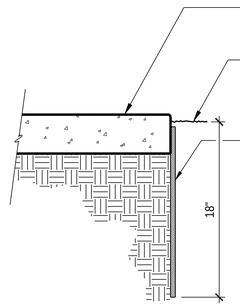

### Detail Legend

1. ATTACH VINE TO WIRE USING 1" WIDE GREEN PLASTIC NURSERY TAPE @ 18" o.c.
2. REMOVE TEMPORARY NURSERY STAKE
3. 12 GA. GALVANIZED WIRE TWISTED AROUND LAG SCREW CONT. ALONG LENGTH OF WALL TO BE PLANTED
4. 1-1/2" X 1/4" DIA LAG SCREW
5. 1" GALVANIZED WASHER
6. PLASTIC SPACER
7. CMU BLOCK WALL
8. LEAD EXPANSION SHIELD
9. 1-1/2" EXPANSION SHIELD W/ 1/4" DIA. LAG SCREW SECURED TO CONC. BLOCK WALL
10. PLANT VINE PER SHRUB DETAIL
11. FINISH GRADE
12. 12" TRIANGLE BENDA BOARD VINE POCKET IN GRAVEL LOCATIONS. SEE SHEET L-2.1.




### Detail Legend

1. WATERING BASIN (TO BE REMOVED WHEN GROUNDCOVER IS PLANTED)
2. FINISH GRADE
3. 100% COARSE SAND BACKFILL, (MECHANICALLY COMPACT AND JET W/ WATER)
4. ROOTBALL
5. 4" DIA. PERF. DRAIN LINE (2000# CRUSH POLYSTYRENE) WRAP W/ FILTER FABRIC SOCK-CENTER UNDER ROOTBALL PROVIDE END CAP & ELL AS INDICATED.
6. UNDISTURBED SITE SOIL
7. INERT MULCH, SEE SPECS
8. 4" DIA. REMOVABLE BLACK RUBBER PLUG DAYLIGHT @ FG.
9. 12" DIA. x 7' DEEP GRAVEL FILLED SUMP SLOPE PIT TO SUMP

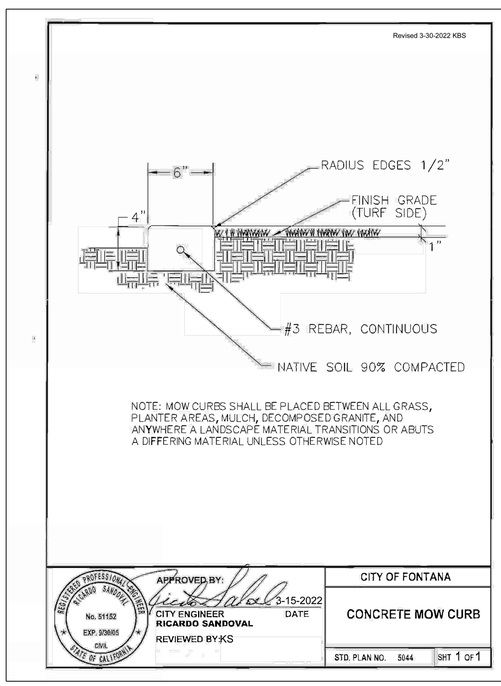



NOTE:
ROOT BARRIERS TO BE CONTINUOUS AT ALL EDGES OF TREE WELLS. INSTALL ROOT BARRIER AT WALKS AND CURBS WHERE TREES ARE LOCATED WITHIN 5'-0" OF PAVING, FOR A DISTANCE OF 8'-0" MIN. EACH SIDE OF CENTERLINE TREE.

SECTION

## D CONCRETE MOW CURB

N.T.S.




## E GROUND COVER SHRUB SPACING

N.T.S.

## F PALM PLANTING

N.T.S.

## G ROOT BARRIER

N.T.S.

## PLANTING NOTES

1. WORK SHALL MEET THE REQUIREMENTS OF ALL LOCAL, STATE, AND FEDERAL GOVERNING CODES, ORDINANCES, LAWS, REGULATIONS, SAFETY ORDERS AND DIRECTIVES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF/HERSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
3. CONTRACTOR MUST CHECK ALL SITE CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. ALL PLANT QUANTITIES ARE IDENTIFIED BY TYPICAL SYMBOLS. REFER TO PLANT LEGEND FOR QUANTITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM ALL PLANT QUANTITIES PRIOR TO AWARDING. IN THE EVENT OF DISCREPANCIES IN PLANT COUNT, QUANTITIES INDICATED BY PLANT SYMBOLS SHALL PREVAIL.
5. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF, PRIOR TO AWARDING, ANY SPECIFIED PLANT MATERIAL IS FOUND TO BE UNAVAILABLE.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIAL FREE OF PESTS OR DISEASE.
7. ALL PLANT MATERIAL DELIVERED TO THE SITE SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
8. ALL AREAS LESS THAN 4:1 SLOPE SHALL BE COVERED WITH 3" ORGANIC MULCH. SUBMIT 1 CU. FT. SAMPLE PRIOR TO APPLICATION.
9. MINIMUM 2 SOIL SAMPLES SHALL BE TAKEN BY CONTRACTOR AFTER GRADING OPERATIONS ARE COMPLETED FOR SOIL FERTILITY AND AGRICULTURAL SUITABILITY TESTING AND RECOMMENDATIONS BY AN APPROVED LABORATORY. SEE SPECIFICATIONS FOR SOIL AMENDMENTS SPECIFIED FOR BIDDING PURPOSES ONLY. SUBMIT SOIL REPORT TO LANDSCAPE ARCHITECT. SOIL AMENDMENTS SHALL BE AS PER RECOMMENDATIONS IN SOILS REPORT.
10. CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE OPERATIONS.
11. THE OWNER SHALL BE THE SOLE JUDGE AS TO WHEN THE MAINTENANCE PERIOD BEGINS.
12. ALL TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED AS REQUIRED BY CALGREEN 5.73.8.3 EXCEPTION: REUSE EITHER ON- OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION. ROCKS GREATER THAN 3" IN DIAMETER SHALL BE REMOVED.
13. CONTRACTOR TO PROVIDE WARRANTY OF MIN. ONE YEAR FOR ALL TREES. ANY DEAD TREES SHALL BE REPLACED WITHIN THE WARRANTY PERIOD.

PLAN CHECK NUMBER: LSPC24-00023

| CITY OF FONTANA, CALIFORNIA | | |
|---|---|---|
| LANDSCAPE DETAILS | | |
| DRAWN BY: JL | FONTANA FIRE STATION NO. 80<br>6585 CHERRY AVENUE, FONTANA, CA 92336 | SCALE: NTS |
| DESIGNED BY: JK | LANDSCAPE DETAILS | DATE: 06/05/2025 |
| CHECKED BY: JK | APPROVED BY: GIA LAM KIM / CITY ENGINEER<br>CITY ENGINEER R.C.E.62296 | DRAWING NO: |


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
6585 Cherry Avenue, Fontana, CA 92336
Northeast of Cherry Avenue and South Highland Avenue

LICENSED ARCHITECT
KELLEY NEEDHAM
C-19064
In lic 03/31/27
STATE OF CALIFORNIA

REGISTERED LANDSCAPE ARCHITECT
JUNG KOO SEOK
No. 6065
My Signature Expires
30 April 2026
Renewal Date
Date
STATE OF CALIFORNIA


CONSULTANT
CORNERSTONE STUDIOS, INC.
951 E Santa Ana Blvd, Santa Ana, CA 92701
714. 973. 2200 Voice
714. 973. 0203 Fax
LANDSCAPE ARCHITECTURE • URBAN DESIGN • PLANNING • RESOURCE ANALYSIS


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 5 | 09/25/25 | | ADDENDUM 5 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 4 | REVISIONS | | |

| | |
|---|---|
| DRAWN: JL | CHECKED: JK |
| DATE: 08/12/2025 | SCALE: AS NOTED |
| PROJECT NUMBER: W2100100AR | |

LANDSCAPE DETAILS

DRAWING NUMBER: L2.2
SHEET 7 OF 7

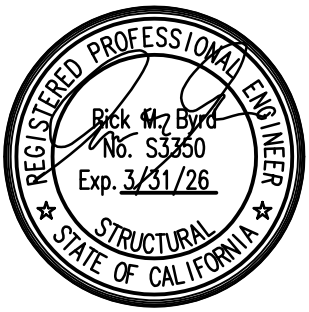
BID SET_ADDENDUM 5

# Structural Calculations for Fontana Fire Station No. 80 Phase 1: Training Center

SUPPLEMENTAL CALCS FOR RETAINING WALLS

Fontana, CA

Initial Permit Submittal
MI2328021.00
9-24-25




3150 Almaden Expressway, Suite 150, San Jose, CA 95118 • P 408.513.1939
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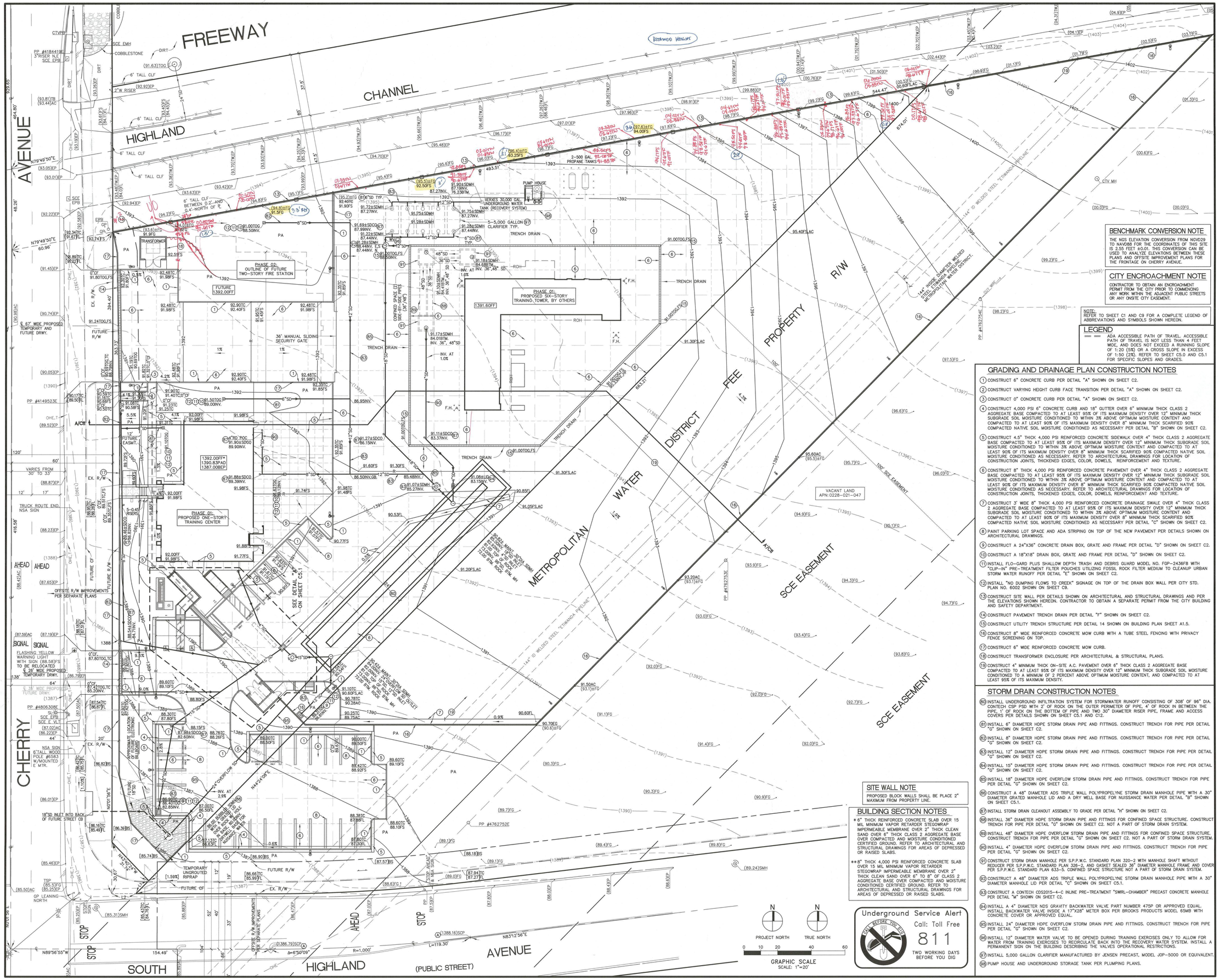



## BENCHMARK CONVERSION NOTE

THE NGS ELEVATION CONVERSION FROM NGVD29 TO NAVD88 FOR THE COORDINATES OF THIS SITE IS 2.55 FEET ±0.01. THIS CONVERSION CAN BE USED TO ANALYZE ELEVATIONS BETWEEN THESE PLANS AND OFFSITE IMPROVEMENT PLANS FOR THE FRONTAGE ON CHERRY AVENUE.

## CITY ENCROACHMENT NOTE

CONTRACTOR TO OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY PRIOR TO COMMENCING ANY WORK WITHIN THE ADJACENT PUBLIC STREETS OR ANY ONSITE CITY EASEMENT.

NOTE:
REFER TO SHEET C1 AND C9 FOR A COMPLETE LEGEND OF ABBREVIATIONS AND SYMBOLS SHOWN HEREON.

## LEGEND

ADA ACCESSIBLE PATH OF TRAVEL. ACCESSIBLE PATH OF TRAVEL IS NOT LESS THAN 4 FEET WIDE, AND DOES NOT EXCEED A RUNNING SLOPE OF 1:20 (5%) OR A CROSS SLOPE IN EXCESS OF 1:50 (2%). REFER TO SHEET C5.0 AND C5.1 FOR SPECIFIC SLOPES AND GRADES.

## GRADING AND DRAINAGE PLAN CONSTRUCTION NOTES

1. CONSTRUCT 6" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
2. CONSTRUCT VARYING HEIGHT CURB FACE TRANSITION PER DETAIL "A" SHOWN ON SHEET C2.
3. CONSTRUCT 0" CONCRETE CURB PER DETAIL "A" SHOWN ON SHEET C2.
4. CONSTRUCT 4,000 PSI 6" CONCRETE CURB AND 18" GUTTER OVER 6" MINIMUM THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "B" SHOWN ON SHEET C2.
5. CONSTRUCT 4.5" THICK 4,000 PSI REINFORCED CONCRETE SIDEWALK OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE.
6. CONSTRUCT 8" THICK 4,000 PSI REINFORCED CONCRETE PAVEMENT OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF CONSTRUCTION JOINTS, THICKENED EDGES, COLOR, DOWELS, REINFORCEMENT AND TEXTURE.
7. CONSTRUCT 3' WIDE 8" THICK 4,000 PSI REINFORCED CONCRETE DRAINAGE SWALE OVER 4" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO WITHIN 3% ABOVE OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF ITS MAXIMUM DENSITY OVER 8" MINIMUM THICK SCARIFIED 90% COMPACTED NATIVE SOIL MOISTURE CONDITIONED AS NECESSARY PER DETAIL "C" SHOWN ON SHEET C2.
8. PAINT PARKING LOT SPACE AND ADA STRIPING ON TOP OF THE NEW PAVEMENT PER DETAILS SHOWN ON ARCHITECTURAL DRAWINGS.
9. CONSTRUCT A 24"X36" CONCRETE DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
10. CONSTRUCT A 18"X18" DRAIN BOX, GRATE AND FRAME PER DETAIL "D" SHOWN ON SHEET C2.
11. INSTALL FLO-GARD PLUS SHALLOW DEPTH TRASH AND DEBRIS GUARD MODEL NO. FGP-2436F8 WITH "CLIP-IN" PRE-TREATMENT FILTER POUCHES UTILIZING FOSSIL ROCK FILTER MEDIUM TO CLEANUP URBAN STORM WATER RUNOFF PER DETAIL "E" SHOWN ON SHEET C2.
12. INSTALL "NO DUMPING FLOWS TO CREEK" SIGNAGE ON TOP OF THE DRAIN BOX WALL PER CITY STD. PLAN NO. 6002 SHOWN ON SHEET C9.
13. CONSTRUCT SITE WALL PER DETAILS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PER THE ELEVATIONS SHOWN HEREON. CONTRACTOR TO OBTAIN A SEPARATE PERMIT FROM THE CITY BUILDING AND SAFETY DEPARTMENT.
14. CONSTRUCT PAVEMENT TRENCH DRAIN PER DETAIL "F" SHOWN ON SHEET C2.
15. CONSTRUCT UTILITY TRENCH STRUCTURE PER DETAIL 14 SHOWN ON BUILDING PLAN SHEET A1.5.
16. CONSTRUCT 8" WIDE REINFORCED CONCRETE MOW CURB WITH A TUBE STEEL FENCING WITH PRIVACY FENCE SCREENING ON TOP.
17. CONSTRUCT 6" WIDE REINFORCED CONCRETE MOW CURB.
18. CONSTRUCT TRANSFORMER ENCLOSURE PER ARCHITECTURAL & STRUCTURAL PLANS.
19. CONSTRUCT 4" MINIMUM THICK ON-SITE A.C. PAVEMENT OVER 6" THICK CLASS 2 AGGREGATE BASE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY OVER 12" MINIMUM THICK SUBGRADE SOIL MOISTURE CONDITIONED TO A MINIMUM OF 2 PERCENT ABOVE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DENSITY.

## STORM DRAIN CONSTRUCTION NOTES

80. INSTALL UNDERGROUND INFILTRATION SYSTEM FOR STORMWATER RUNOFF CONSISTING OF 308' OF 96" DIA. CONTECH CSP PSD WITH 2' OF ROCK ON THE OUTER PERIMETER OF PIPE, 4' OF ROCK IN BETWEEN THE PIPE, 1' OF ROCK ON THE BOTTEM OF PIPE AND TWO 30" DIAMETER RISER PIPE, FRAME AND ACCESS COVERS PER DETAILS SHOWN ON SHEET C5.1 AND C12.
81. INSTALL 6" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
82. INSTALL 8" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
83. INSTALL 12" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
84. INSTALL 15" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
85. INSTALL 18" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
86. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER GRATED MANHOLE LID AND A DRY WELL BASE FOR NUISSANCE WATER PER DETAIL "B" SHOWN ON SHEET C5.1.
87. INSTALL STORM DRAIN CLEANOUT ASSEMBLY TO GRADE PER DETAIL "H" SHOWN ON SHEET C2.
88. INSTALL 36" DIAMETER HDPE STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
89. INSTALL 48" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS FOR CONFINED SPACE STRUCTURE. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2. NOT A PART OF STORM DRAIN SYSTEM.
90. INSTALL 4" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
91. CONSTRUCT STORM DRAIN MANHOLE PER S.P.P.W.C. STANDARD PLAN 320-2 WITH MANHOLE SHAFT WITHOUT REDUCER PER S.P.P.W.C. STANDARD PLAN 326-2, AND GASKET SEALED 36" DIAMETER MANHOLE FRAME AND COVER PER S.P.P.W.C. STANDARD PLAN 633-5. CONFINED SPACE STRUCTURE NOT A PART OF STORM DRAIN SYSTEM.
92. CONSTRUCT A 48" DIAMETER ADS TRIPLE WALL POLYPROPELYNE STORM DRAIN MANHOLE PIPE WITH A 30" DIAMETER MANHOLE LID PER DETAIL "C" SHOWN ON SHEET C5.1.
93. CONSTRUCT A CONTECH CDS2015-4-C INLINE PRE-TREATMENT "SWIRL-CHAMBER" PRECAST CONCRETE MANHOLE PER DETAIL "M" SHOWN ON SHEET C2.
94. INSTALL A 4" DIAMETER NDS GRAVITY BACKWATER VALVE PART NUMBER 475P OR APPROVED EQUAL. INSTALL BACKWATER VALVE INSIDE A 17"X28" METER BOX PER BROOKS PRODUCTS MODEL 65MB WITH CONCRETE COVER OR APPROVED EQUAL.
95. INSTALL 24" DIAMETER HDPE OVERFLOW STORM DRAIN PIPE AND FITTINGS. CONSTRUCT TRENCH FOR PIPE PER DETAIL "G" SHOWN ON SHEET C2.
96. INSTALL 12" DIAMETER WATER VALVE TO BE OPENED DURING TRAINING EXERCISES ONLY TO ALLOW FOR WATER FROM TRAINING EXERCISES TO RECIRCULATE BACK INTO THE RECOVERY WATER SYSTEM. INSTALL A PERMANENT SIGN ON THE BUILDING DESCRIBING THE VALVES OPERATIONAL RESTRICTIONS.
97. INSTALL 5,000 GALLON CLARIFIER MANUFACTURED BY JENSEN PRECAST, MODEL JOP-5000 OR EQUIVALENT.
98. PUMP HOUSE AND UNDERGROUND STORAGE TANK PER PLUMPING PLANS.

## SITE WALL NOTE

PROPOSED BLOCK WALLS SHALL BE PLACE 2" MAXIMUM FROM PROPERTY LINE.

## BUILDING SECTION NOTES

* 6" THICK REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" THICK CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.

** 8" THICK 4,000 PSI REINFORCED CONCRETE SLAB OVER 15 MIL MINIMUM VAPOR RETARDER STEGOWRAP IMPERMEABLE MEMBRANE OVER 2" THICK CLEAN SAND OVER 6" TO 8" OF CLASS 2 AGGREGATE BASE OVER COMPACTED AND MOISTURE CONDITIONED CERTIFIED GROUND. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR AREAS OF DEPRESSED OR RAISED SLABS.

Underground Service Alert
DIG! BEFORE YOU DIG
Call: Toll Free
811
TWO WORKING DAYS BEFORE YOU DIG


PBK
RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0909 P


# FONTANA FIRE STATION No. 80 & TRAINING CENTER

SAN BERNARDINO COUNTY FIRE DEPARTMENT
Northeast of Cherry Avenue and South Highland Avenue
FONTANA, CA 92335

LICENSED ARCHITECT — KELLEY NEEDHAM, C-19064, license 03/31/27 — STATE OF CALIFORNIA
REGISTERED PROFESSIONAL ENGINEER — MARK S. LAMOUREUX, No. 38382, CIVIL — STATE OF CALIFORNIA


CONSULTANT
MSL ENGINEERING, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
SPECIALIZING IN SITE DEVELOPMENT
301 N. SAN DIMAS AVENUE
SAN DIMAS, CA. 91773
(909) 305-2395 FAX (909) 305-2397
Mark S. Lamoureux 08-18-25
MARK S. LAMOUREUX (R.C.E. 38382) DATE


| NO | DATE | BY | DESCRIPTION |
|---|---|---|---|
| 1 | | | REVISIONS |

| | |
|---|---|
| DRAWN: JGA | CHECKED: MSL |
| DATE: 07/01/2025 | SCALE: AS SHOWN |
| PROJECT NUMBER: W2100100AR | |

GRADING AND DRAINAGE PLAN

DRAWING NUMBER: C5.0

JN 20038 - 20038 C5.0gdp-C5.1gdp

8/18/2025 12:33:44 PM, MSL ENGINEERING, INC. (JA)

miyamoto.
1047 West Sixth Street, Suite A
Ontario, CA 91762
T: (415) 767-4261
miyamotointernational.com

RETAIN WALL DESIGN:

ALLOWABLE SOIL BP = 2500 psf

ACTIVE SOIL PRESS. = 38 psf/ft

PASSIVE PRESSURE = 240 pcf.

SOIL DENSITY = 120 pcf.

SEE ENERCALC RESULTS FOR
< 2'-0"
and
2'-1" to 5'-0" MAX RETAIN WALL
RESULTS.

Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft max retain

## *Code Reference*

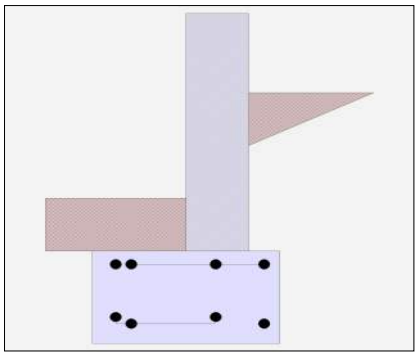
Calculations per IBC 2018 1807.3, CBC 2019, ASCE 7-16

### Criteria

| | | |
|---|---|---|
| Retained Height | = | 2.00 ft |
| Wall height above soil | = | 1.00 ft |
| Slope Behind Wall | = | 0.00 |
| Height of Soil over Toe | = | 8.00 in |
| Water table above bottom of footing | = | 0.0 ft |

### Soil Data

| | | |
|---|---|---|
| Allow Soil Bearing | = | 2,500.0 psf |
| Equivalent Fluid Pressure Method | | |
| Active Heel Pressure | = | 38.0 psf/ft |
| | = | |
| Passive Pressure | = | 290.0 psf/ft |
| Soil Density, Heel | = | 120.00 pcf |
| Soil Density, Toe | = | 120.00 pcf |
| Footing\|\|Soil Friction | = | 0.400 |
| Soil height to ignore for passive pressure | = | 12.00 in |



### Surcharge Loads

| | | |
|---|---|---|
| Surcharge Over Heel | = | 0.0 psf |
| Used To Resist Sliding & Overturning | | |
| Surcharge Over Toe | = | 0.0 |
| Used for Sliding & Overturning | | |

### Axial Load Applied to Stem

| | | |
|---|---|---|
| Axial Dead Load | = | 0.0 lbs |
| Axial Live Load | = | 0.0 lbs |
| Axial Load Eccentricity | = | 0.0 in |

### Lateral Load Applied to Stem

| | | |
|---|---|---|
| Lateral Load | = | 0.0 #/ft |
| ...Height to Top | = | 0.00 ft |
| ...Height to Bottom | = | 0.00 ft |
| Load Type | = | Wind (W) (Service Level) |
| Wind on Exposed Stem (Strength Level) | = | 0.0 psf |

### Adjacent Footing Load

| | | |
|---|---|---|
| Adjacent Footing Load | = | 0.0 lbs |
| Footing Width | = | 0.00 ft |
| Eccentricity | = | 0.00 in |
| Wall to Ftg CL Dist | = | 0.00 ft |
| Footing Type | | Spread Footing |
| Base Above/Below Soil at Back of Wall | = | 0.0 ft |
| Poisson's Ratio | = | 0.300 |

Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft max retain

## Design Summary

**Wall Stability Ratios**

| | | | |
|---|---|---|---|
| Overturning | = | 3.54 | OK |
| Sliding | = | 3.05 | OK |
| Global Stability | = | 4.27 | |

| | | | |
|---|---|---|---|
| Total Bearing Load | = | 597 lbs | |
| ...resultant ecc. | = | 0.00 in | |
| Eccentricity within middle third | | | |
| Soil Pressure @ Toe | = | 255 psf | OK |
| Soil Pressure @ Heel | = | 255 psf | OK |
| Allowable | = | 2,500 psf | |
| Soil Pressure Less Than Allowable | | | |
| ACI Factored @ Toe | = | 357 psf | |
| ACI Factored @ Heel | = | 357 psf | |
| Footing Shear @ Toe | = | 0.2 psi | OK |
| Footing Shear @ Heel | = | 1.4 psi | OK |
| Allowable | = | 82.2 psi | |

**Sliding Calcs**

| | | | |
|---|---|---|---|
| Lateral Sliding Force | = | 190.5 lbs | |
| less 100% Passive Force | - | 342.4 lbs | |
| less 100% Friction Force | - | 238.9 lbs | |
| Added Force Req'd | = | 0.0 lbs | OK |
| ....for 1.5 Stability | = | 0.0 lbs | OK |

Vertical component of active lateral soil pressure IS considered in the calculation of soil bearing pressures.

**Load Factors**

| | |
|---|---|
| Building Code | |
| Dead Load | 1.200 |
| Live Load | 1.600 |
| Earth, H | 1.600 |
| Wind, W | 1.600 |
| Seismic, E | 1.000 |

## Stem Construction

| | | Bottom | | |
|---|---|---|---|---|
| | | Stem OK | | |
| **Design Height Above Ftg** | ft = | 0.00 | | |
| Wall Material Above "Ht" | = | Masonry | | |
| Design Method | = | ASD | SD | SD |
| Thickness | = | 8.00 | | |
| Rebar Size | = | # 5 | | |
| Rebar Spacing | = | 16.00 | | |
| Rebar Placed at | = | Center | | |
| **Design Data** | | | | |
| fb/FB + fa/Fa | = | **0.038** | | |
| **Total Force @ Section** | | | | |
| Service Level | lbs = | 76.0 | | |
| Strength Level | lbs = | | | |
| **Moment....Actual** | | | | |
| Service Level | ft-# = | 50.7 | | |
| Strength Level | ft-# = | | | |
| Moment.....Allowable | = | 1,314.3 | | |
| **Shear.....Actual** | | | | |
| Service Level | psi = | 0.8 | | |
| Strength Level | psi = | | | |
| Shear.....Allowable | psi = | 50.3 | | |
| Anet (Masonry) | in2 = | 91.50 | | |
| Wall Weight | psf = | 0.0 | | |
| Rebar Depth 'd' | in = | 3.81 | | |
| **Masonry Data** | | | | |
| f'm | psi = | 2,000 | | |
| Fs | psi = | 20,000 | | |
| Solid Grouting | = | Yes | | |
| Modular Ratio 'n' | = | 16.11 | | |
| Equiv. Solid Thick. | in = | 7.63 | | |
| Masonry Block Type | = | | | |
| Masonry Design Method | = | ASD | | |
| **Concrete Data** | | | | |
| f'c | psi = | | | |
| Fy | psi = | | | |

Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft max retain

## Footing Data

| | | |
|---|---|---|
| Toe Width | = | 1.00 ft |
| Heel Width | = | 1.00 |
| Total Footing Width | = | 2.00 |
| Footing Thickness | = | 14.00 in |
| Key Width | = | 0.00 in |
| Key Depth | = | 0.00 in |
| Key Distance from Toe | = | 0.00 ft |

f'c = 3,000 psi Fy = 60,000 psi
Footing Concrete Density = 150.00 pcf
Min. As % = 0.0018
Cover @ Top 2.00 @ Btm.= 3.00 in

## Footing Design Results

| | | Toe | Heel | |
|---|---|---|---|---|
| Factored Pressure | = | 357 | 357 psf | |
| Mu' : Upward | = | 179 | 20 ft-# | |
| Mu' : Downward | = | 204 | 102 ft-# | |
| Mu: Design | = | -25 OK | 82 ft-# | OK |
| phiMn | = | 34,574 | 15,501 ft-# | |
| Actual 1-Way Shear | = | 0.15 | 1.35 psi | |
| Allow 1-Way Shear | = | 82.16 | 82.16 psi | |
| Toe Reinforcing | = | # 8 @ 12.00 in | | |
| Heel Reinforcing | = | # 5 @ 12.30 in | | |
| Key Reinforcing | = | None Spec'd | | |
| Footing Torsion, Tu | = | 0.00 ft-lbs | | |
| Footing Allow. Torsion, phi Tu | = | 0.00 ft-lbs | | |

**If torsion exceeds allowable, provide supplemental design for footing torsion.**

Other Acceptable Sizes & Spacings

Toe: #4@ 7.93 in, #5@ 12.30 in, #6@ 17.46 in, #7@ 23.80 in, #8@ 31.34 in, #9@ 39.68 in, #10@ 50.39 in

Heel: #4@ 7.93 in, #5@ 12.30 in, #6@ 17.46 in, #7@ 23.80 in, #8@ 31.34 in, #9@ 39.68 in, #10@ 50.39 in

Key: No key defined

Min footing T&S reinf Area 0.60 in2
Min footing T&S reinf Area per foot 0.30 in2 /ft

| If one layer of horizontal bars: | If two layers of horizontal bars: |
|---|---|
| #4@ 7.94 in | #4@ 15.87 in |
| #5@ 12.30 in | #5@ 24.60 in |
| #6@ 17.46 in | #6@ 34.92 in |

Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft max retain

## Summary of Overturning & Resisting Forces & Moments

| Item | .....OVERTURNING..... Force lbs | Distance ft | Moment ft-# | .....RESISTING..... Force lbs | Distance ft | Moment ft-# |
|---|---|---|---|---|---|---|
| HL Act Pres (ab water tbl) | 190.5 | 1.06 | 201.1 | | | |
| HL Act Pres (be water tbl) | | | | | | |
| Hydrostatic Force | | | | | | |
| Buoyant Force = | | | | | | |
| Surcharge over Heel = | | | | | | |
| Surcharge Over Toe = | | | | | | |
| Adjacent Footing Load = | | | | | | |
| Added Lateral Load = | | | | | | |
| Load @ Stem Above Soil = | | | | | | |
| = | | | | | | |
| | | | | Soil Over HL (ab. water tbl) | 80.0 | 1.83 | 146.7 |
| | | | | Soil Over HL (bel. water tbl) | | 1.83 | 146.7 |
| | | | | Water Table | | | |
| | | | | Sloped Soil Over Heel = | | | |
| | | | | Surcharge Over Heel = | | | |
| | | | | Adjacent Footing Load = | | | |
| | | | | Axial Dead Load on Stem = | | | |
| | | | | * Axial Live Load on Stem = | | | |
| | | | | Soil Over Toe = | 80.0 | 0.50 | 40.0 |
| | | | | Surcharge Over Toe = | | | |
| | | | | Stem Weight(s) = | | | |
| | | | | Earth @ Stem Transitions = | | | |
| | | | | Footing Weight = | 350.0 | 1.00 | 350.0 |
| | | | | Key Weight = | | | |
| | | | | Vert. Component = | 87.2 | 2.00 | 174.3 |
| **Total** = | 190.5 | **O.T.M.** = | 201.1 | **Total =** | 597.2 lbs | **R.M.=** | 711.0 |

**Resisting/Overturning Ratio** = **3.54**
Vertical Loads used for Soil Pressure = 597.2 lbs

* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.

Vertical component of active lateral soil pressure IS considered in the calculation of Sliding Resistance.

Vertical component of active lateral soil pressure IS considered in the calculation of Overturning Resistance.

## Tilt

### Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

| | | |
|---|---|---|
| Soil Spring Reaction Modulus | 250.0 | pci |
| Horizontal Defl @ Top of Wall (approximate only) | 0.011 | in |

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe, because the wall would then tend to rotate into the retained soil.

# Cantilevered Retaining Wall





**DESCRIPTION:** 2ft max retain

## Rebar Lap & Embedment Lengths Information

Stem Design Segment: Bottom
Stem Design Height: 0.00 ft above top of footing
Calculated Rebar Stress, fs = 770.98 psi

| | |
|---|---|
| Lap Splice length for #5 bar specified in this stem design segment (25.4.2.3a) = | 25.00 in |
| Development length for #5 bar specified in this stem design segment = | 12.00 in |
| Hooked embedment length into footing for #5 bar specified in this stem design segment = | 6.39 in |
| As Provided = | 0.2325 in2/ft |
| As Required = | 0.0089 in2/ft |

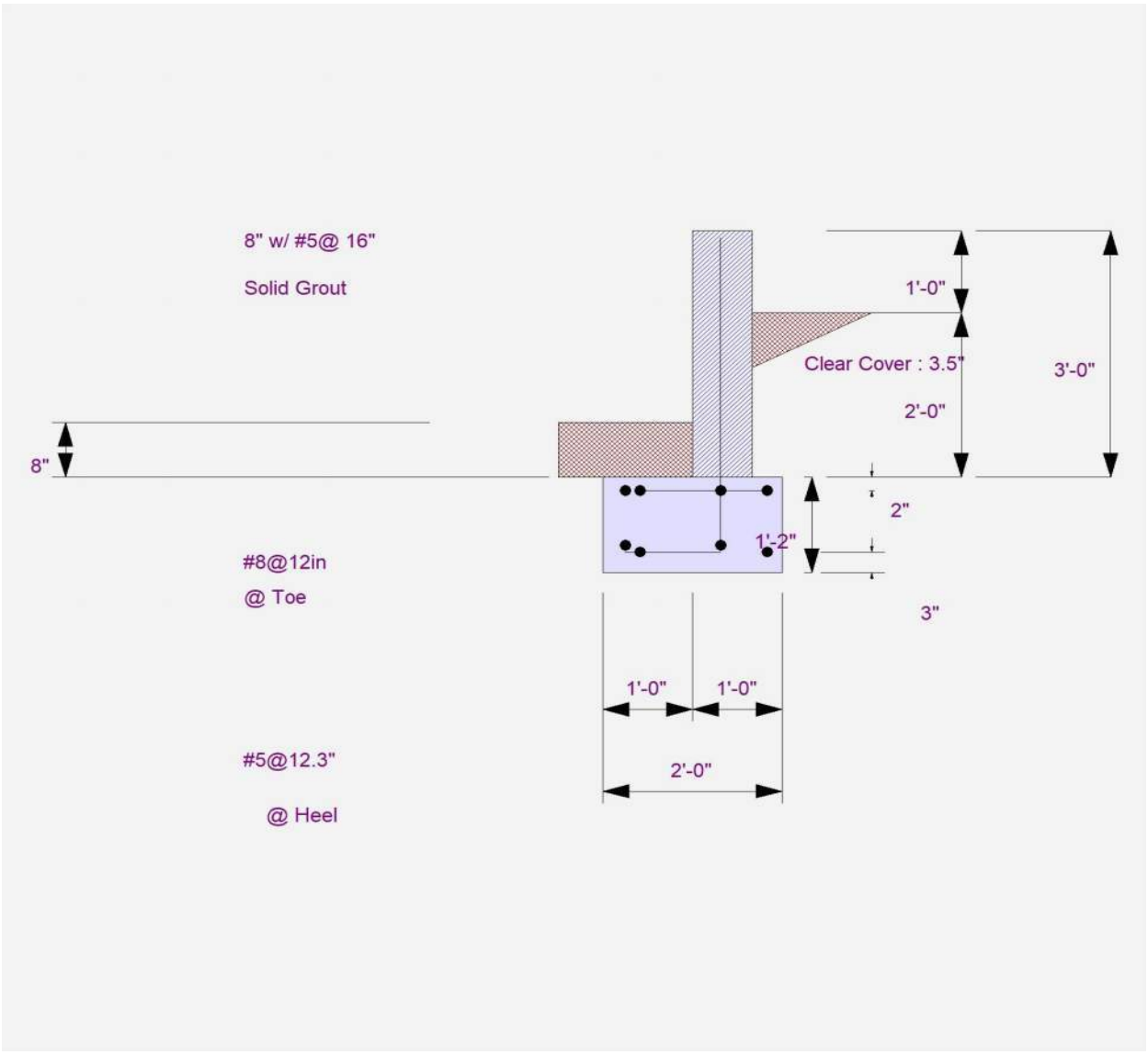
Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

## Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft max retain



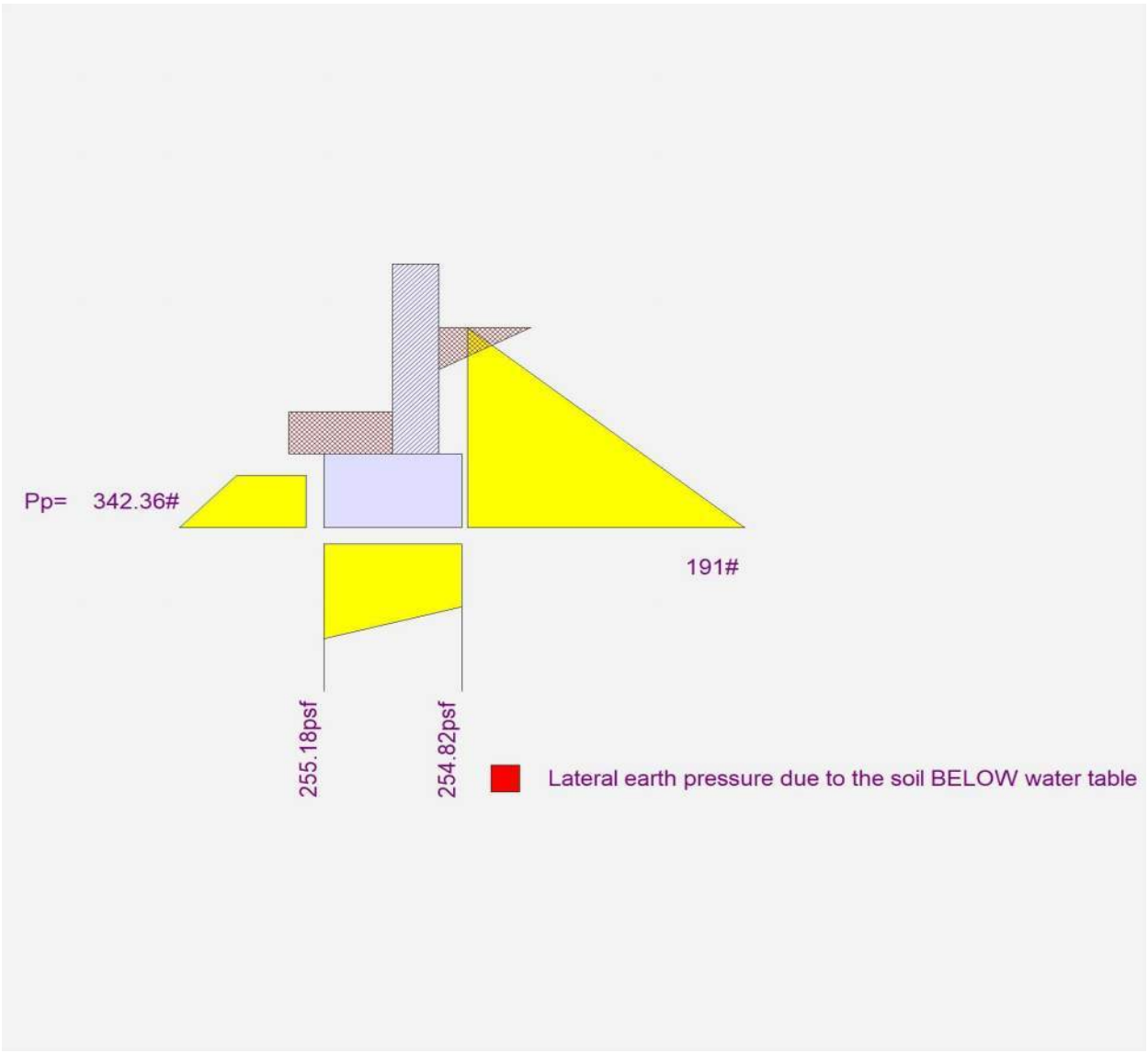
Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

## Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft max retain



Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft to 5 ft retain

## *Code Reference*

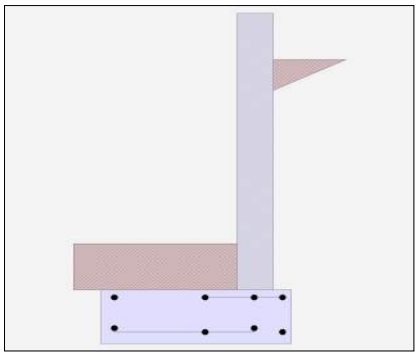
Calculations per IBC 2018 1807.3, CBC 2019, ASCE 7-16

### Criteria

| | | |
|---|---|---|
| Retained Height | = | 5.00 ft |
| Wall height above soil | = | 1.00 ft |
| Slope Behind Wall | = | 0.00 |
| Height of Soil over Toe | = | 12.00 in |
| Water table above bottom of footing | = | 0.0 ft |

### Soil Data

| | | |
|---|---|---|
| Allow Soil Bearing | = | 2,500.0 psf |
| Equivalent Fluid Pressure Method | | |
| Active Heel Pressure | = | 38.0 psf/ft |
| | = | |
| Passive Pressure | = | 290.0 psf/ft |
| Soil Density, Heel | = | 120.00 pcf |
| Soil Density, Toe | = | 120.00 pcf |
| Footing\|\|Soil Friction | = | 0.400 |
| Soil height to ignore for passive pressure | = | 12.00 in |



### Surcharge Loads

| | | |
|---|---|---|
| Surcharge Over Heel | = | 0.0 psf |
| Used To Resist Sliding & Overturning | | |
| Surcharge Over Toe | = | 0.0 |
| Used for Sliding & Overturning | | |

### Axial Load Applied to Stem

| | | |
|---|---|---|
| Axial Dead Load | = | 0.0 lbs |
| Axial Live Load | = | 0.0 lbs |
| Axial Load Eccentricity | = | 0.0 in |

### Lateral Load Applied to Stem

| | | |
|---|---|---|
| Lateral Load | = | 0.0 #/ft |
| ...Height to Top | = | 0.00 ft |
| ...Height to Bottom | = | 0.00 ft |
| Load Type | = | Wind (W) (Service Level) |
| Wind on Exposed Stem (Strength Level) | = | 0.0 psf |

### Adjacent Footing Load

| | | |
|---|---|---|
| Adjacent Footing Load | = | 0.0 lbs |
| Footing Width | = | 0.00 ft |
| Eccentricity | = | 0.00 in |
| Wall to Ftg CL Dist | = | 0.00 ft |
| Footing Type | | Spread Footing |
| Base Above/Below Soil at Back of Wall | = | 0.0 ft |
| Poisson's Ratio | = | 0.300 |

Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft to 5 ft retain

## Design Summary

**Wall Stability Ratios**

| | | | |
|---|---|---|---|
| Overturning | = | 2.20 | OK |
| Sliding | = | 1.54 | OK |
| Global Stability | = | 2.09 | |
| Total Bearing Load | = | 1,443 lbs | |
| ...resultant ecc. | = | 1.74 in | |
| Eccentricity within middle third | | | |
| Soil Pressure @ Toe | = | 397 psf | OK |
| Soil Pressure @ Heel | = | 239 psf | OK |
| Allowable | = | 2,500 psf | |
| Soil Pressure Less Than Allowable | | | |
| ACI Factored @ Toe | = | 556 psf | |
| ACI Factored @ Heel | = | 334 psf | |
| Footing Shear @ Toe | = | 1.5 psi | OK |
| Footing Shear @ Heel | = | 5.2 psi | OK |
| Allowable | = | 82.2 psi | |

**Sliding Calcs**

| | | | |
|---|---|---|---|
| Lateral Sliding Force | = | 722.5 lbs | |
| less 100% Passive Force | - | 535.7 lbs | |
| less 100% Friction Force | - | 577.2 lbs | |
| Added Force Req'd | = | 0.0 lbs | OK |
| ....for 1.5 Stability | = | 0.0 lbs | OK |

Vertical component of active lateral soil pressure IS considered in the calculation of soil bearing pressures.

**Load Factors**

| | |
|---|---|
| Building Code | |
| Dead Load | 1.200 |
| Live Load | 1.600 |
| Earth, H | 1.600 |
| Wind, W | 1.600 |
| Seismic, E | 1.000 |

## Stem Construction

| | | Bottom | | |
|---|---|---|---|---|
| | | Stem OK | | |
| **Design Height Above Ftg** | ft = | 0.00 | | |
| Wall Material Above "Ht" | = | Masonry | | |
| Design Method | = | ASD | SD | SD |
| Thickness | = | 8.00 | | |
| Rebar Size | = | # 5 | | |
| Rebar Spacing | = | 16.00 | | |
| Rebar Placed at | = | Center | | |
| **Design Data** | | | | |
| fb/FB + fa/Fa | = | **0.602** | | |
| **Total Force @ Section** | | | | |
| Service Level | lbs = | 475.0 | | |
| Strength Level | lbs = | | | |
| **Moment....Actual** | | | | |
| Service Level | ft-# = | 791.7 | | |
| Strength Level | ft-# = | | | |
| Moment.....Allowable | = | 1,314.3 | | |
| **Shear.....Actual** | | | | |
| Service Level | psi = | 5.2 | | |
| Strength Level | psi = | | | |
| Shear.....Allowable | psi = | 50.3 | | |
| Anet (Masonry) | in2 = | 91.50 | | |
| Wall Weight | psf = | 0.0 | | |
| Rebar Depth 'd' | in = | 3.81 | | |
| **Masonry Data** | | | | |
| f'm | psi = | 2,000 | | |
| Fs | psi = | 20,000 | | |
| Solid Grouting | = | Yes | | |
| Modular Ratio 'n' | = | 16.11 | | |
| Equiv. Solid Thick. | in = | 7.63 | | |
| Masonry Block Type | = | | | |
| Masonry Design Method | = | ASD | | |
| **Concrete Data** | | | | |
| f'c | psi = | | | |
| Fy | psi = | | | |

Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
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Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft to 5 ft retain

## Footing Data

| | | |
|---|---|---|
| Toe Width | = | 2.50 ft |
| Heel Width | = | 1.00 |
| Total Footing Width | = | 3.50 |
| Footing Thickness | = | 14.00 in |
| Key Width | = | 0.00 in |
| Key Depth | = | 0.00 in |
| Key Distance from Toe | = | 0.00 ft |

f'c = 3,000 psi Fy = 60,000 psi
Footing Concrete Density = 150.00 pcf
Min. As % = 0.0018
Cover @ Top 2.00 @ Btm.= 3.00 in

## Footing Design Results

| | | Toe | | Heel | |
|---|---|---|---|---|---|
| Factored Pressure | = | 556 | | 334 | psf |
| Mu' : Upward | = | 1,572 | | 19 | ft-# |
| Mu' : Downward | = | 1,254 | | 280 | ft-# |
| Mu: Design | = | 318 | OK | 261 | ft-# OK |
| phiMn | = | 34,574 | | 15,501 | ft-# |
| Actual 1-Way Shear | = | 1.48 | | 5.25 | psi |
| Allow 1-Way Shear | = | 82.16 | | 82.16 | psi |
| Toe Reinforcing | = | # 8 @ 12.00 in | | | |
| Heel Reinforcing | = | # 5 @ 12.30 in | | | |
| Key Reinforcing | = | None Spec'd | | | |
| Footing Torsion, Tu | = | 0.00 | ft-lbs | | |
| Footing Allow. Torsion, phi Tu | = | 0.00 | ft-lbs | | |

**If torsion exceeds allowable, provide supplemental design for footing torsion.**

Other Acceptable Sizes & Spacings

Toe: #4@ 7.93 in, #5@ 12.30 in, #6@ 17.46 in, #7@ 23.80 in, #8@ 31.34 in, #9@ 39.68 in, #10@ 50.39 in

Heel: #4@ 7.93 in, #5@ 12.30 in, #6@ 17.46 in, #7@ 23.80 in, #8@ 31.34 in, #9@ 39.68 in, #10@ 50.39 in

Key: No key defined

Min footing T&S reinf Area 1.06 in2
Min footing T&S reinf Area per foot 0.30 in2 /ft

| If one layer of horizontal bars: | If two layers of horizontal bars: |
|---|---|
| #4@ 7.94 in | #4@ 15.87 in |
| #5@ 12.30 in | #5@ 24.60 in |
| #6@ 17.46 in | #6@ 34.92 in |

Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft to 5 ft retain

## Summary of Overturning & Resisting Forces & Moments

| Item | .....OVERTURNING..... Force lbs | Distance ft | Moment ft-# | .....RESISTING..... Force lbs | Distance ft | Moment ft-# |
|---|---|---|---|---|---|---|
| HL Act Pres (ab water tbl) | 722.5 | 2.06 | 1,485.2 | | | |
| HL Act Pres (be water tbl) | | | | | | |
| Hydrostatic Force | | | | | | |
| Buoyant Force = | | | | | | |
| Surcharge over Heel = | | | | | | |
| Surcharge Over Toe = | | | | | | |
| Adjacent Footing Load = | | | | | | |
| Added Lateral Load = | | | | | | |
| Load @ Stem Above Soil = | | | | | | |
| = | | | | | | |
| | | | | Soil Over HL (ab. water tbl) | 200.0 | 3.33 | 666.7 |
| | | | | Soil Over HL (bel. water tbl) | | 3.33 | 666.7 |
| | | | | Water Table | | | |
| | | | | Sloped Soil Over Heel = | | | |
| | | | | Surcharge Over Heel = | | | |
| | | | | Adjacent Footing Load = | | | |
| | | | | Axial Dead Load on Stem = | | | |
| | | | | * Axial Live Load on Stem = | | | |
| | | | | Soil Over Toe = | 300.0 | 1.25 | 375.0 |
| | | | | Surcharge Over Toe = | | | |
| | | | | Stem Weight(s) = | | | |
| | | | | Earth @ Stem Transitions = | | | |
| | | | | Footing Weight = | 612.5 | 1.75 | 1,071.9 |
| | | | | Key Weight = | | | |
| | | | | Vert. Component = | 330.5 | 3.50 | 1,156.9 |
| **Total** = | 722.5 | **O.T.M.** = | 1,485.2 | **Total =** | 1,443.0 lbs | **R.M.=** | 3,270.4 |

**Resisting/Overturning Ratio** = **2.20**
Vertical Loads used for Soil Pressure = 1,443.0 lbs

* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.

Vertical component of active lateral soil pressure IS considered in the calculation of Sliding Resistance.

Vertical component of active lateral soil pressure IS considered in the calculation of Overturning Resistance.

## Tilt

### Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

| | | |
|---|---|---|
| Soil Spring Reaction Modulus | 250.0 | pci |
| Horizontal Defl @ Top of Wall (approximate only) | 0.019 | in |

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe, because the wall would then tend to rotate into the retained soil.

# Cantilevered Retaining Wall





**DESCRIPTION:** 2ft to 5 ft retain

## Rebar Lap & Embedment Lengths Information

Stem Design Segment: Bottom
Stem Design Height: 0.00 ft above top of footing
Calculated Rebar Stress, fs = 12046.51 psi

| | |
|---|---|
| Lap Splice length for #5 bar specified in this stem design segment (25.4.2.3a) = | 25.00 in |
| Development length for #5 bar specified in this stem design segment = | 15.06 in |
| Hooked embedment length into footing for #5 bar specified in this stem design segment = | 6.39 in |
| As Provided = | 0.2325 in2/ft |
| As Required = | 0.1401 in2/ft |

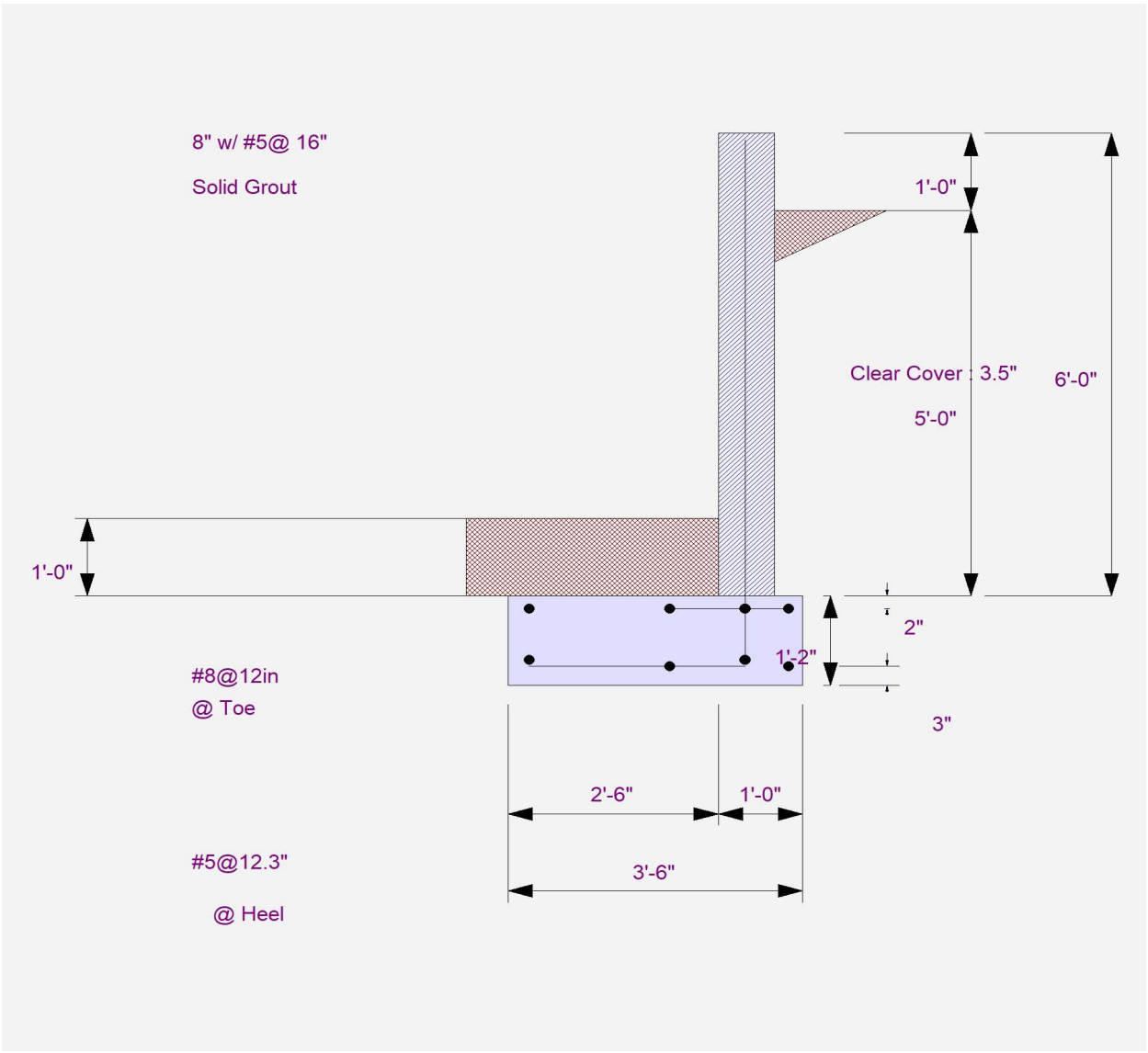
Project Title: Fontana Fire Station No. 80 and Training Center
Engineer: Tyler Bouma
Project ID:
Project Descr:

# Cantilevered Retaining Wall

Project File: 2.2) Enercalc - 2328021.00 Fontana FS #80.ec6



**DESCRIPTION:** 2ft to 5 ft retain



# Cantilevered Retaining Wall





**DESCRIPTION:** 2ft to 5 ft retain