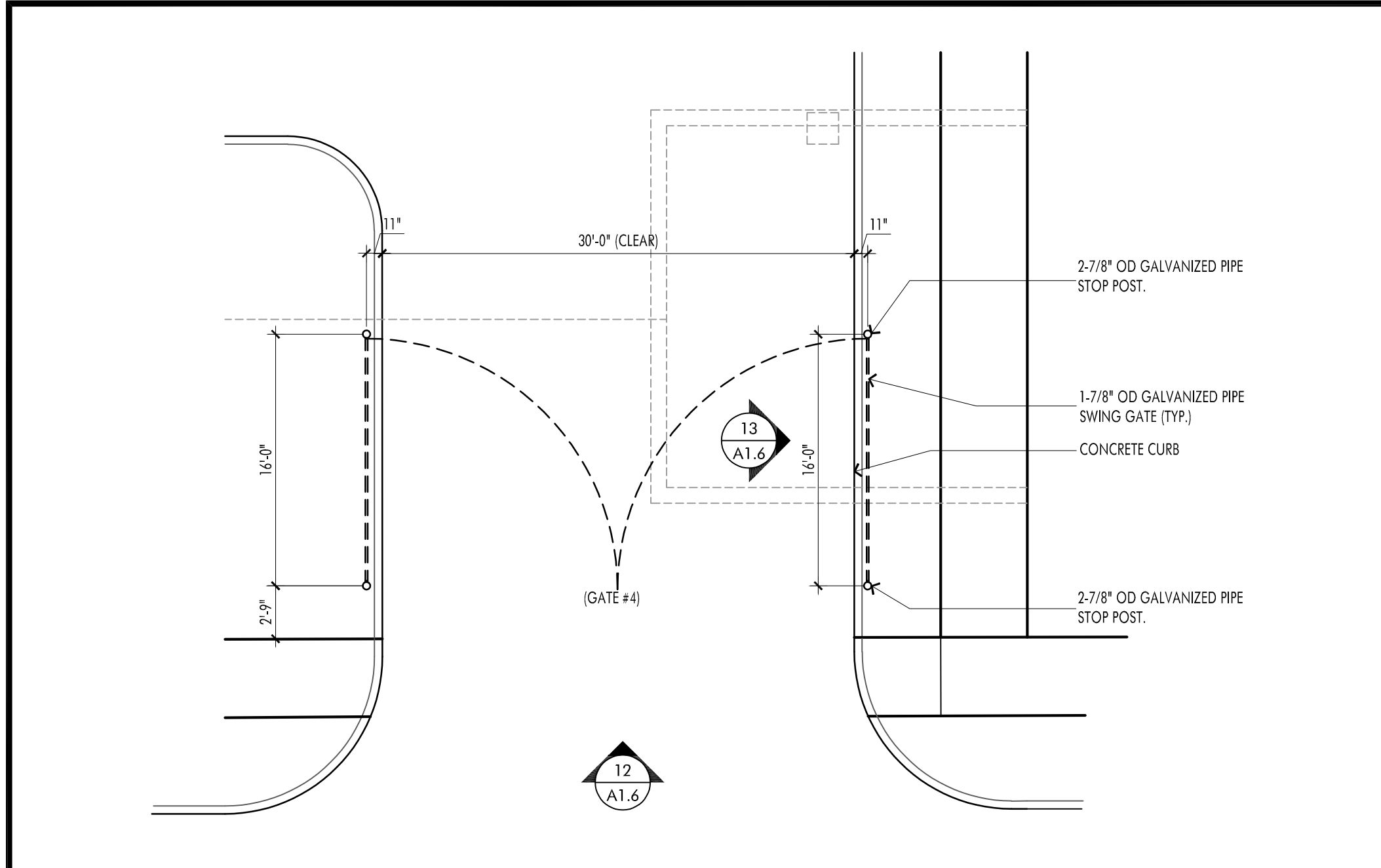
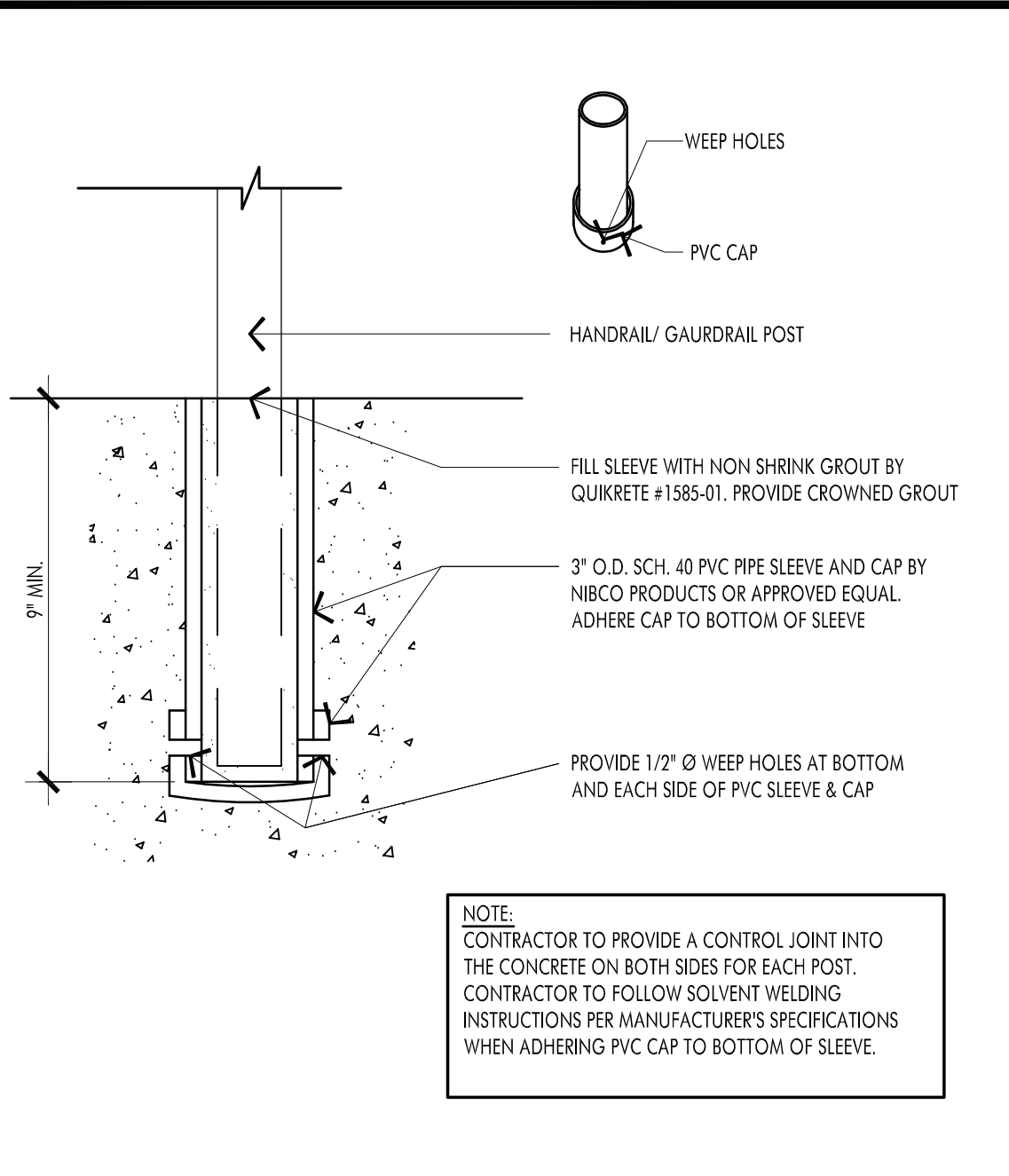
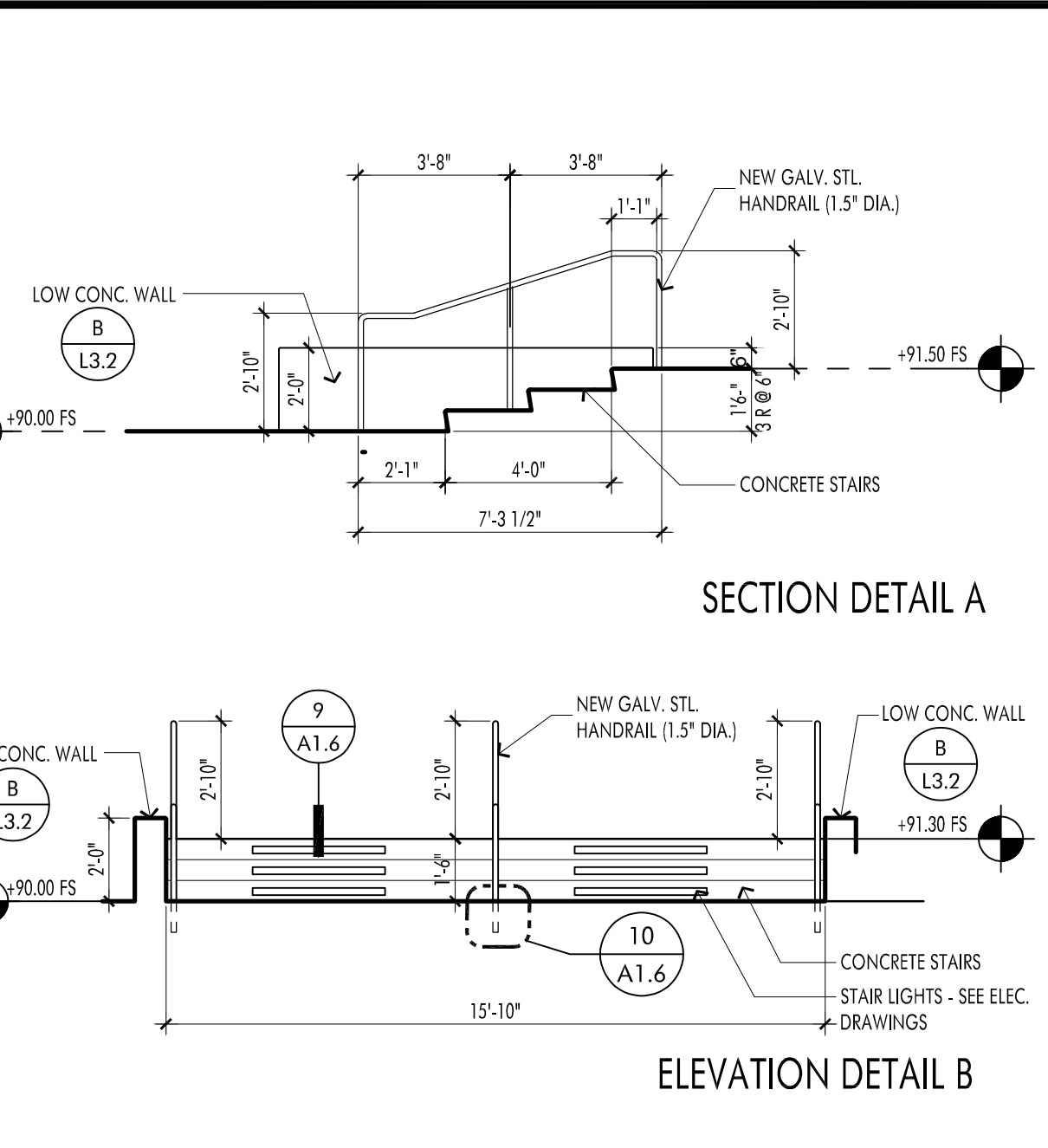




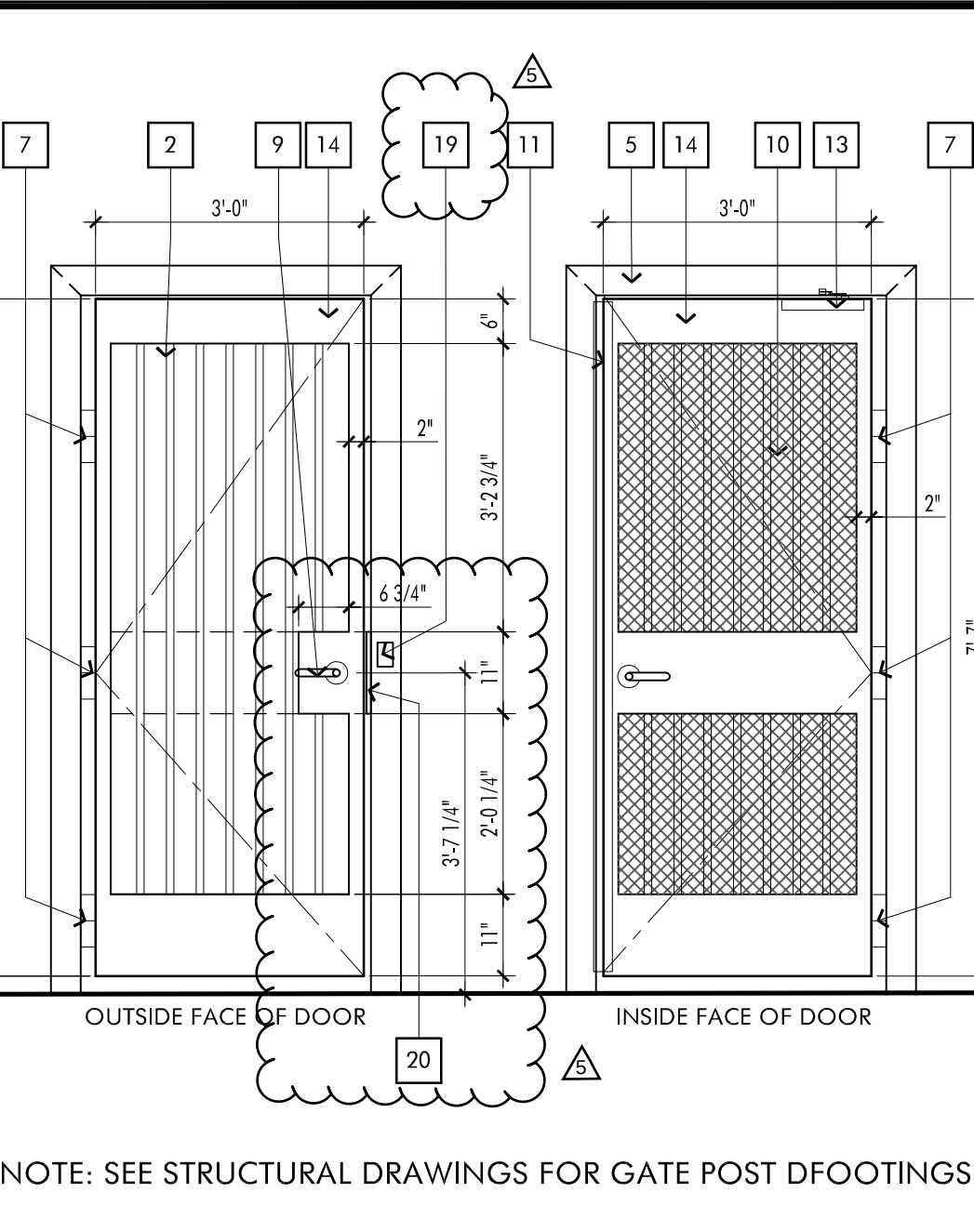
DRIVEWAY GATE #4 DETAIL SCALE 1/4" = 1'-0" 14



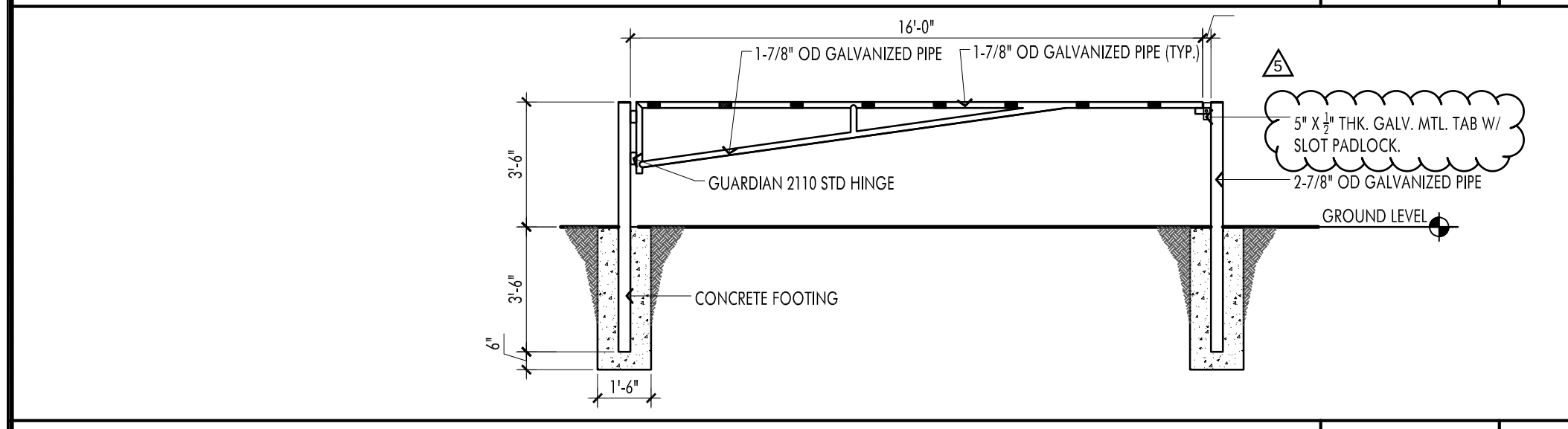
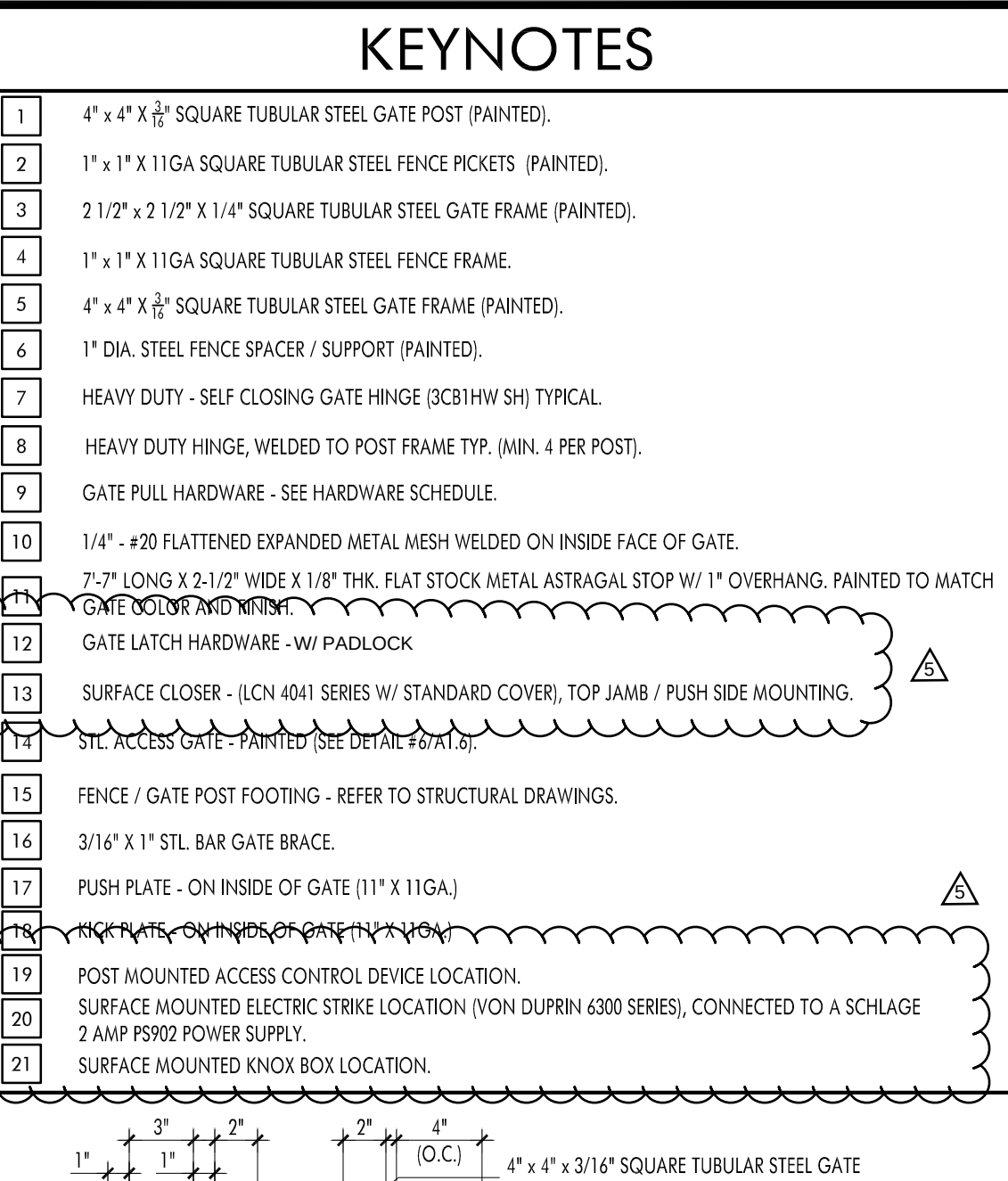
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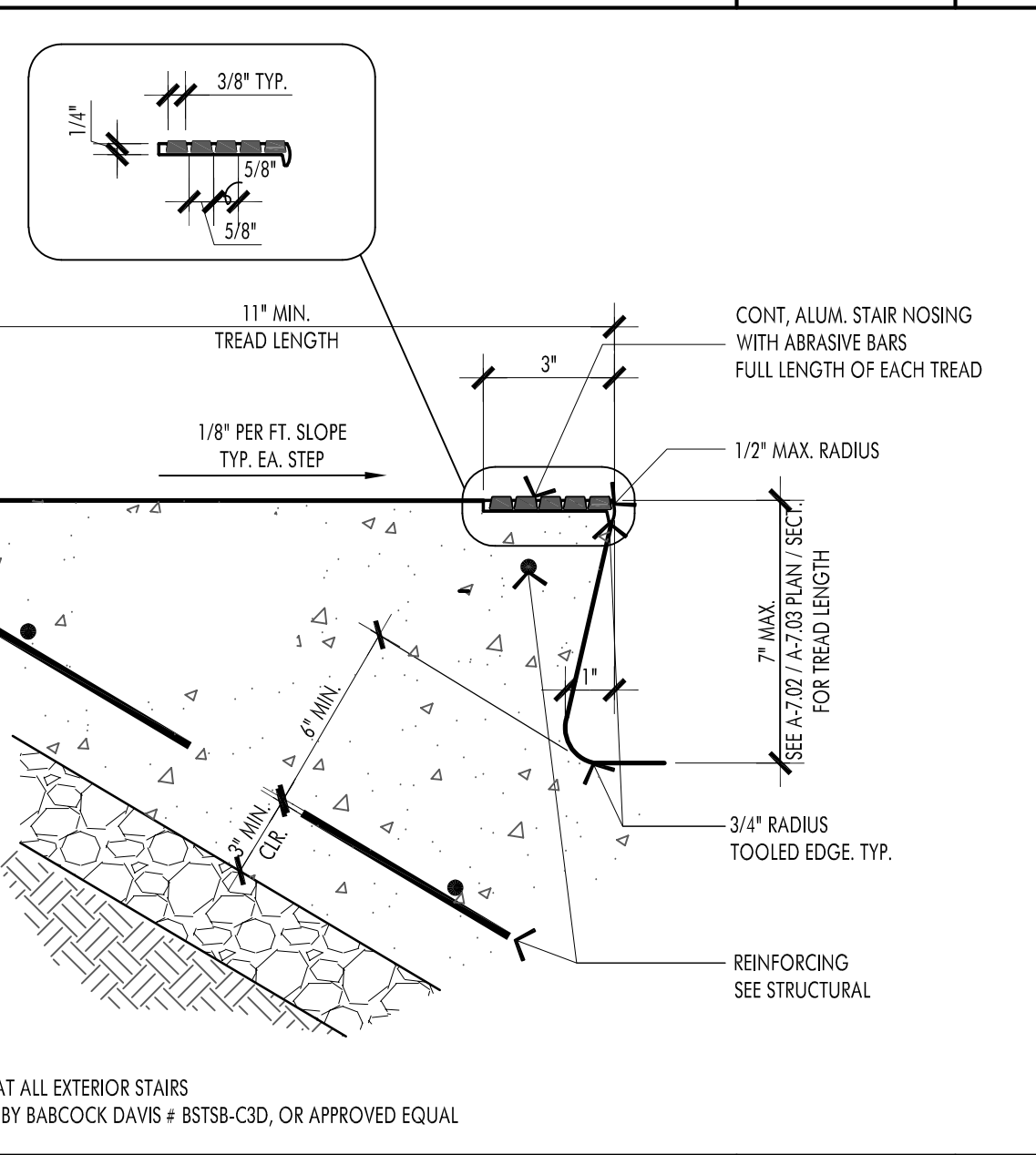
SITE STAIR DETAIL SCALE 1/4" = 1'-0" 8



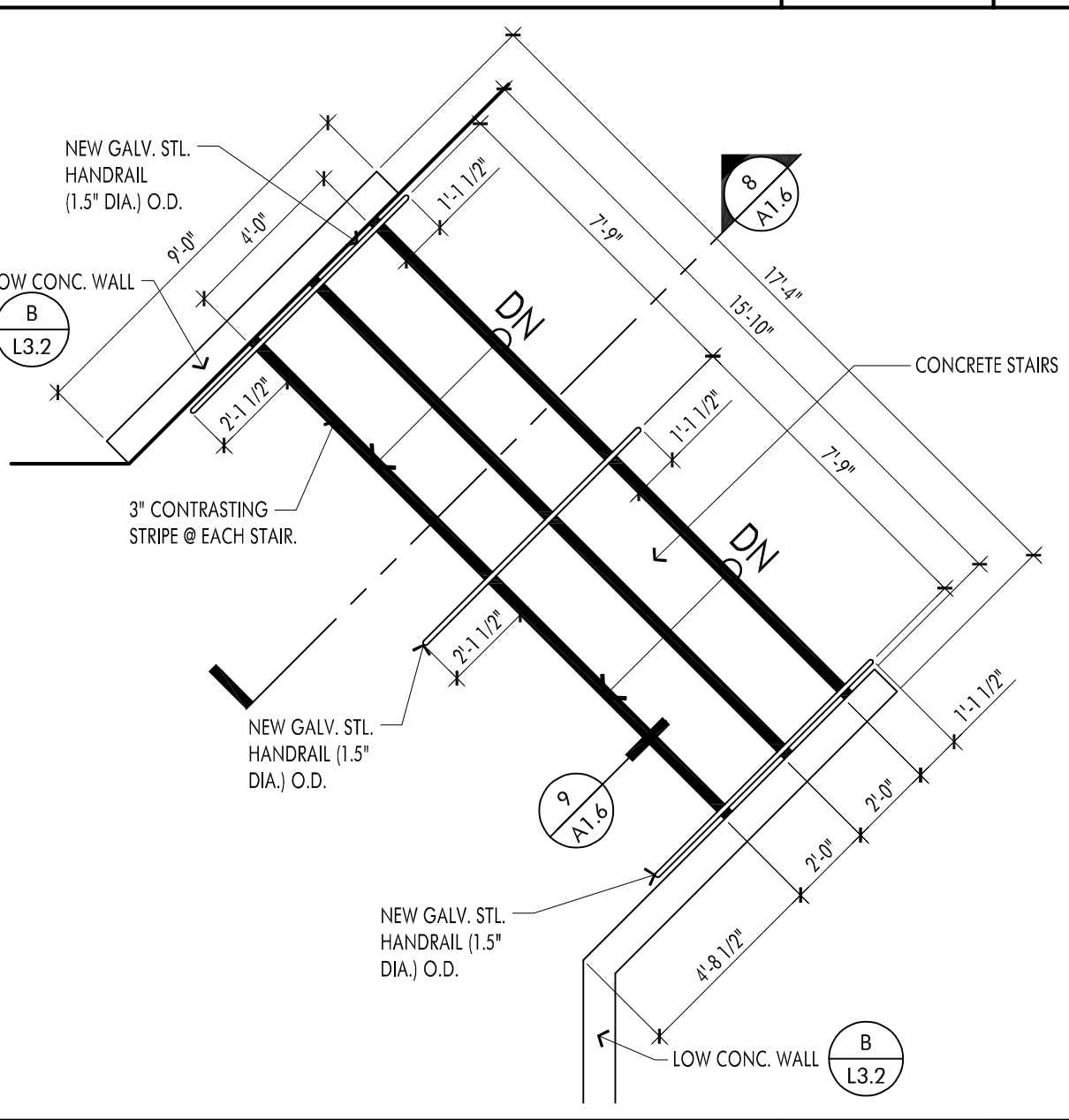
GATE DETAIL SCALE 1/2" = 1'-0" 6



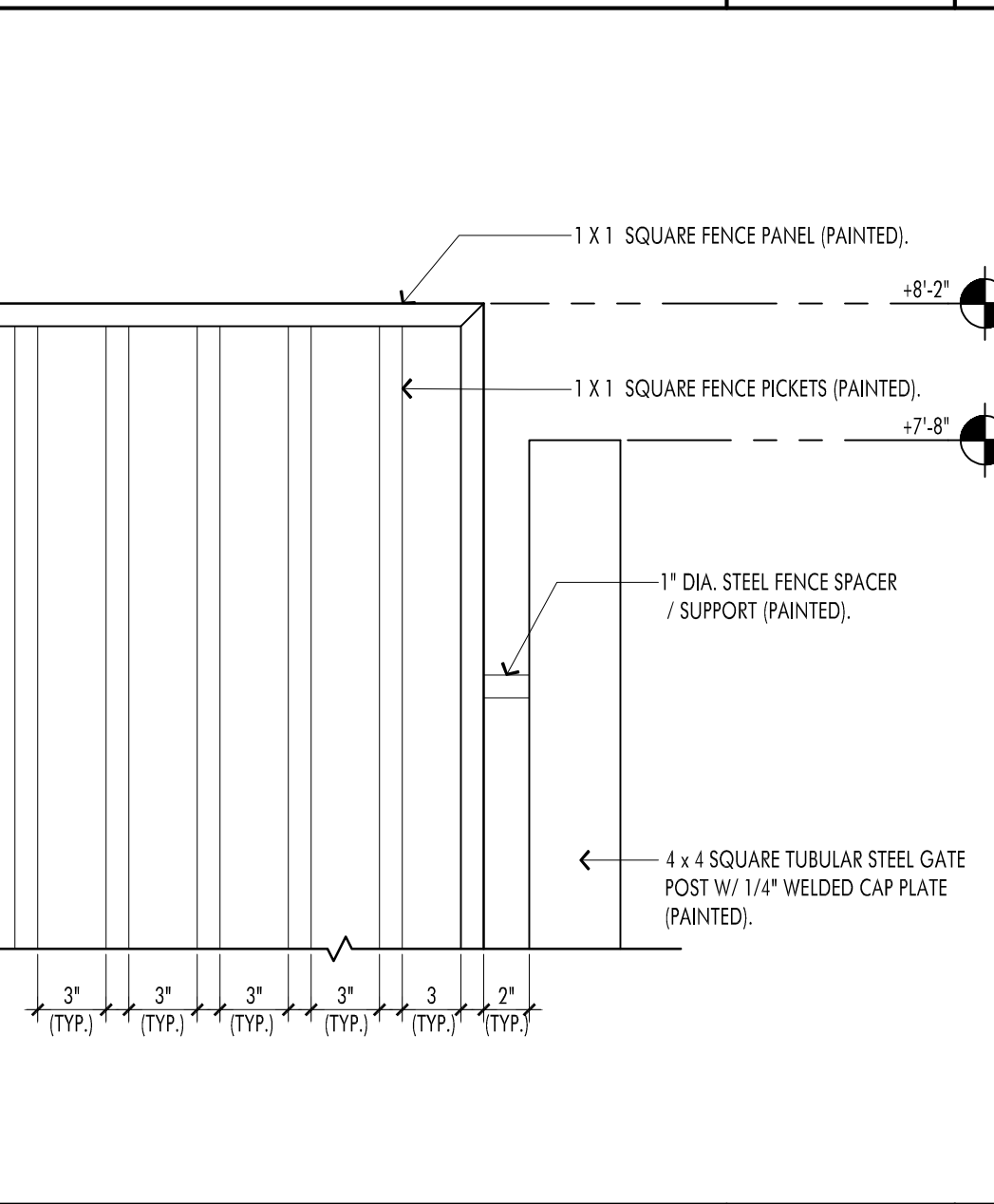
DRIVEWAY GATE #4 DETAIL SCALE 1/4" = 1'-0" 13



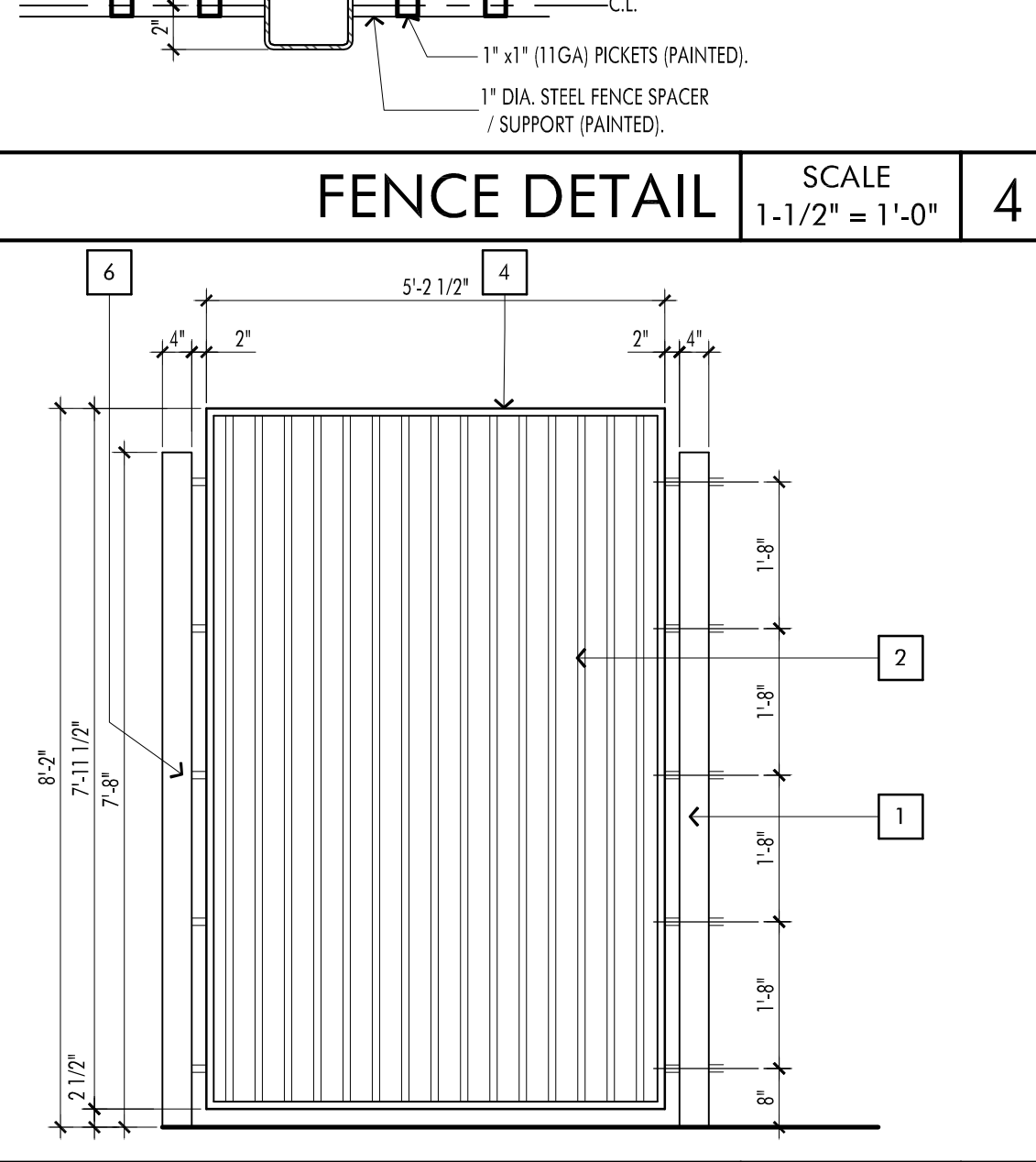
STAIR DETAIL SCALE 3" = 1'-0" 9



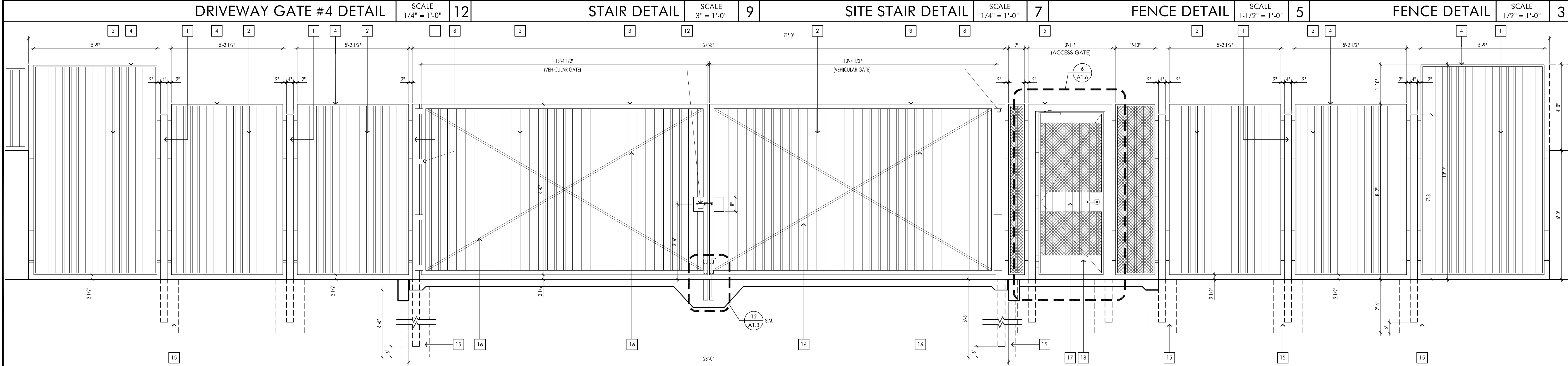
SITE STAIR DETAIL SCALE 1/4" = 1'-0" 7



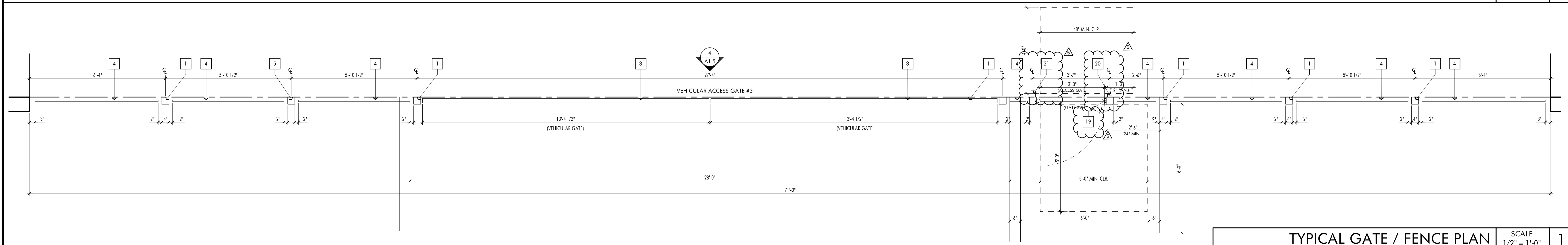
FENCE DETAIL SCALE 1-1/2" = 1'-0" 5



FENCE DETAIL SCALE 1/2" = 1'-0" 3



TYPICAL FENCE / GATE ELEVATION SCALE 1/2" = 1'-0" 2

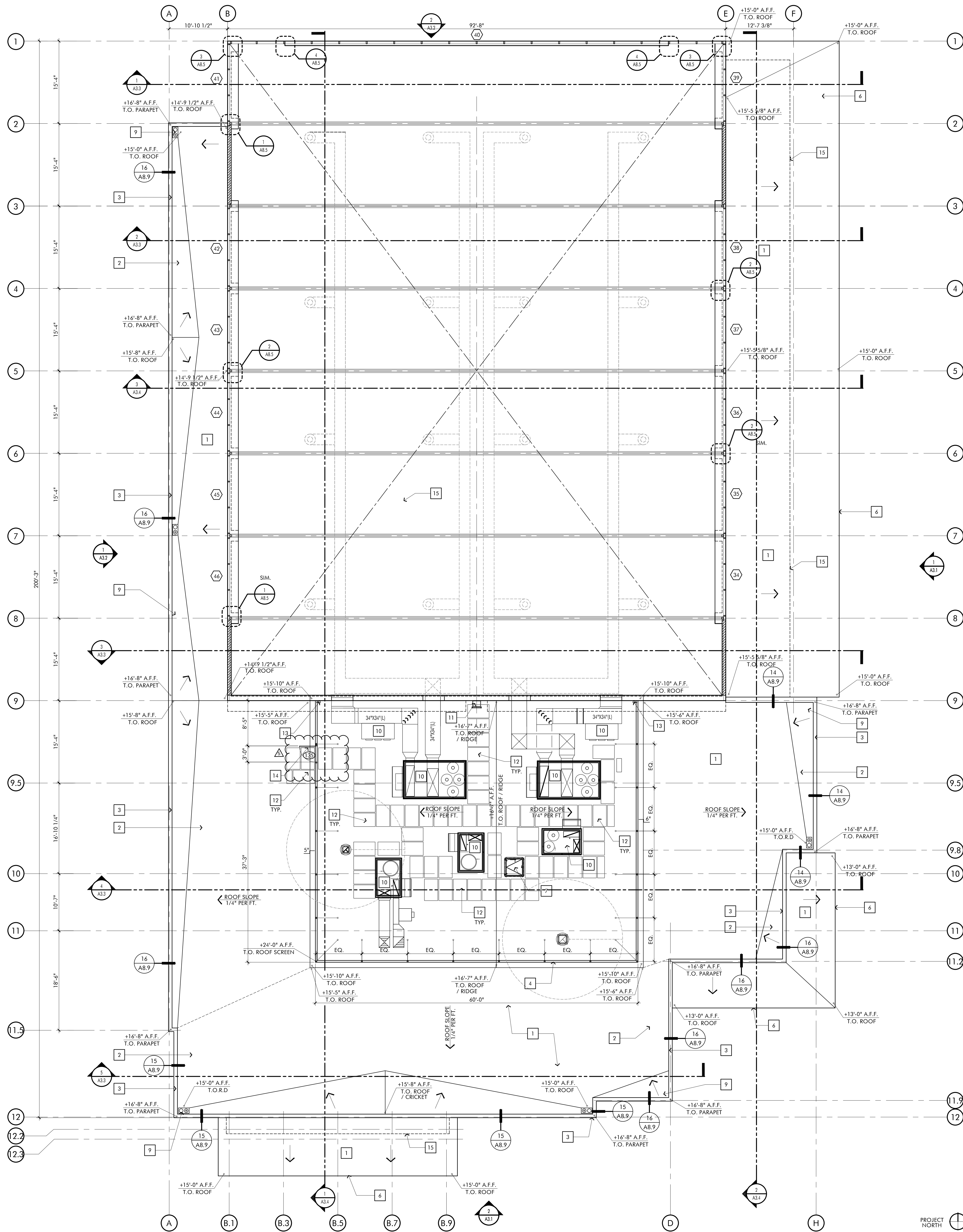


TYPICAL GATE / FENCE PLAN SCALE 1/2" = 1'-0" 1

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REVISIONS	DATE
1ST BUILDING SUBMITTAL	09/19/25
PC RESUBMITTAL	02/27/26
2ND PC RESUBMITTAL	06/29/26
BID SET / PC RESUBMITTAL	07/27/26
BID ADDENDUM #3	09/08/26
BID ADDENDUM #5	09/17/26

JOB NO.:	2024.01
DRAWN BY:	RCA+A
DATE:	05-11-2026
TITLE:	SITE DETAILS
SHEET:	



KEYNOTES

- 1 SBS MODIFIED BITUMINOUS MEMBRANE ROOFING SYSTEM BY TREMCO AS PER SPEC. SECTION 07200. ALSO REFER TO DETAILS 13, 17 & 18.
- 2 BUILT - UP ISO INSULATION BOARD CRICKETS. MINIMUM 1/4" PER FOOT SLOPE.
- 3 PRE-FINISHED METAL PARAPET CAP CUSTOM COLOR TO MATCH FASCIA PANEL
- 4 MECHANICAL ROOF SCREEN WITH PRE-FINISHED METAL PARAPET CAP - SEE DETAILS #3/A4.3.
- 5 PRE-FINISHED CONTINUOUS METAL GUTTER TO MATCH RAL COLOR#8024.
- 6 PAINTED METAL FASCIA
- 7 ROOF ACCESS HATCH - SEE DETAIL #1, 3 & 5/A8.9
- 8 FUTURE LOCATION FOR SOLAR PV PANELS - SEE PV DRAWINGS ON SHEET PV2.0
- 9 ROOF DRAIN AND OVERFLOW DRAIN
- 10 MECHANICAL EQUIPMENT - SEE MECH DRAWINGS
- 11 ROOF ACCESS LADDER #1/A8.9 & DETAIL 3/A4.5
- 12 TREMCO - TPA WALKWAY ROLL ROOF PADS.
- 13 PRE-FINISHED METAL DOWNSPOUT (4"x6") TO MATCH RAL 8024 COLOR. SEE DETAIL 2/A4.5.
- 14 HOLLOW METAL DOOR PAINTED TO MATCH RAL 8024 COLOR.
- 15 LINE OF BUILDING BELOW

GENERAL NOTES

1. ROOFING TO EXTEND UNDER ALL MECHANICAL EQUIPMENT.
2. ROOF WALK PADS ARE TO BE 2" APART. (MIN.)
3. ROOF TO BE CLASS "A" SYSTEM.
4. ROOF DRAIN SIZES ARE BASED ON A 4" PER HOUR RAINFALL
5. OVERFLOW DRAINS SHALL BE CONNECTED TO DRAIN LINES INDEPENDENT FROM THE ROOF DRAIN LINES.
6. ROOF DRAINAGE WATER FROM A BUILDING SHALL NOT BE PERMITTED TO FLOW OVER PUBLIC PROPERTY.
7. ALL HOLES OR SLOTS IN PIPE SUPPORT COLUMNS FOR THE MECHANICAL ROOF SCREENS AND / OR PARAPET SUPPORT BRACES SHALL HAVE ALL HOLES AND SLOTS WELDED CLOSED.
8. ALL MECHANICAL EQUIPMENT PADS TO BE MIN. 8" ABOVE THE SURROUNDING ROOF SURFACE.
9. CLASS A ROOF COVERING IS REQUIRED. (CBC 1504 AND TABLE 15-A)
10. INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
11. FOR ROOF PIPE PENETRATIONS SEE DETAILS 7, 8 & 9 /A8.9
12. ROOF PENETRATIONS MUST BE 18" AWAY FROM VALLEY LINES.

ROOF SPECIFICATION

CLASS "A" ROOF SYSTEM, AS REQUIRED BY NBMC 15.04.290

SBS MODIFIED BITUMINOUS MEMBRANE ROOFING SYSTEM BY TREMCO AS PER SPEC. SECTION 07200. ALSO REFER TO DETAILS #13, 17 & 18 / A8.9

LEGEND

- T.O.S.E. = TOP OF STEEL EDGE
T.O.F.R.S. = TOP OF ROOF FINISH ROOF SURFACE
T.O. PARAPET = TOP OF PARAPET CAP
T.O.M.S. = TOP OF MECHANICAL SCREEN WALL
R.D. = ROFF DRAIN AND OVERFLOW SUMP (-2") FROM SURROUNDING SURFACE (TYP.)
◻ = WINDOW TYPE SYMBOL
◻ = MECHANICAL UNITS WITH BUILT-UP PLATFORM

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JOB NO.: 2024.01
DRAWN BY: RCA+A
DATE: 05-11-2026

TITLE: LOW ROOF & CLEARSTORY PLAN
SHEET:

A2.5

LOW ROOF & CLEARSTORY PLAN

SCALE
1/8" = 1'-0"

1

[illegible]

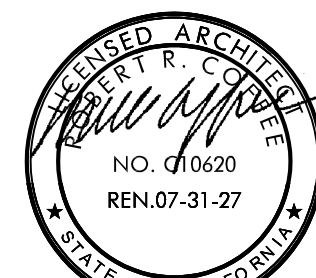
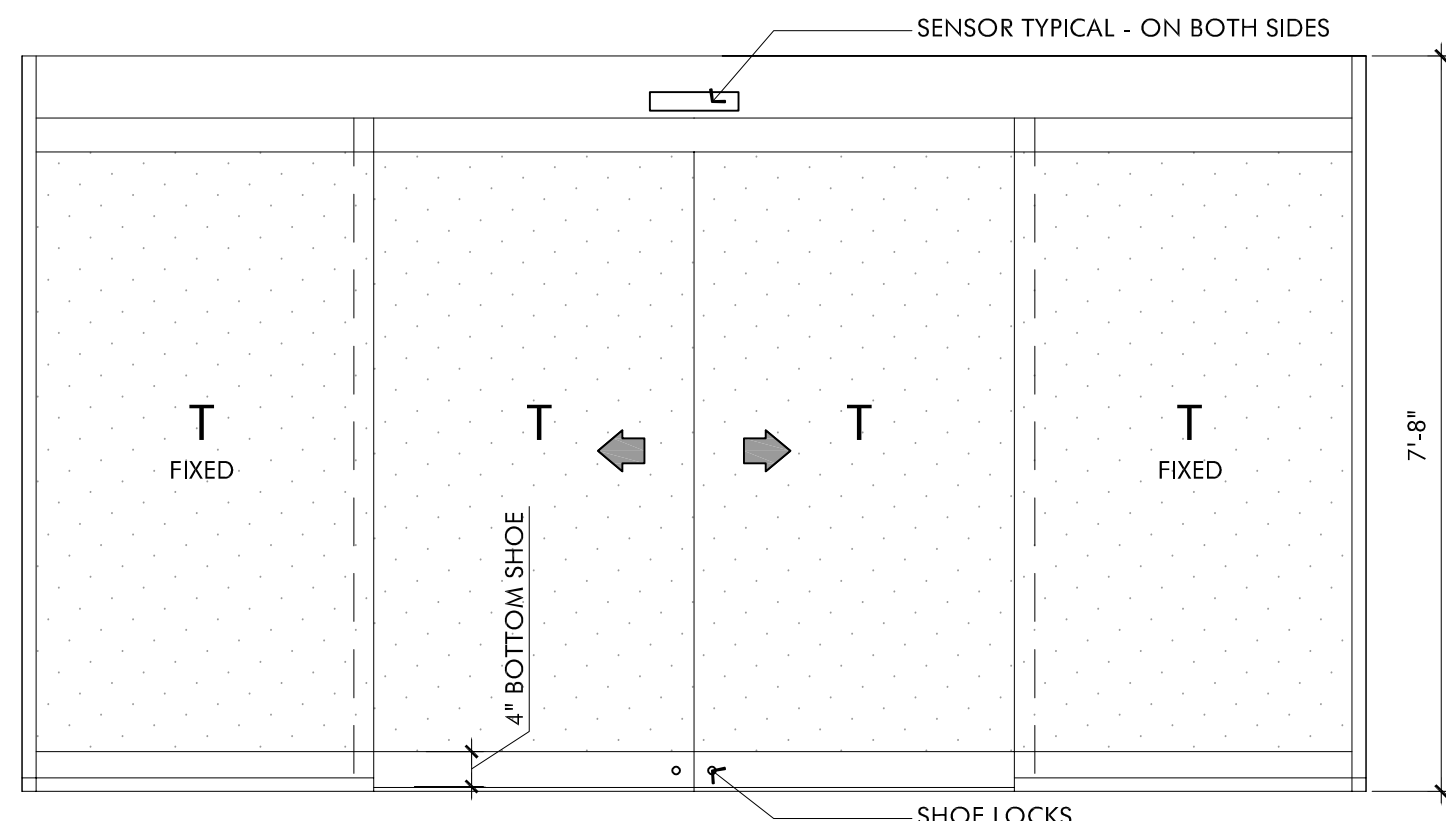
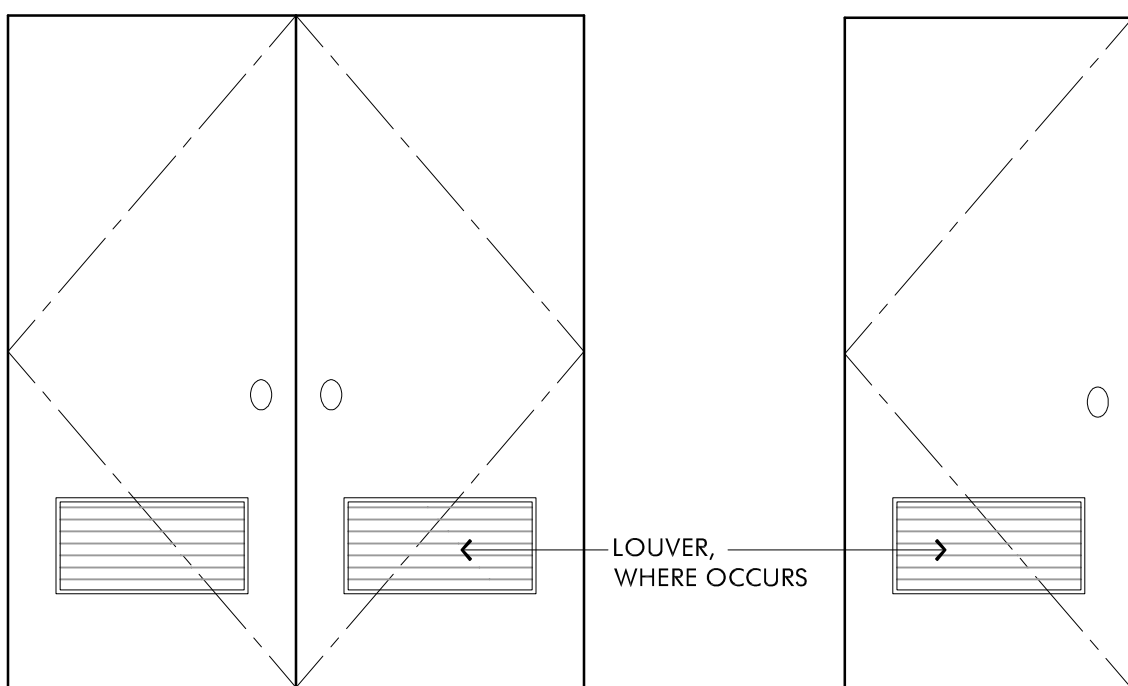
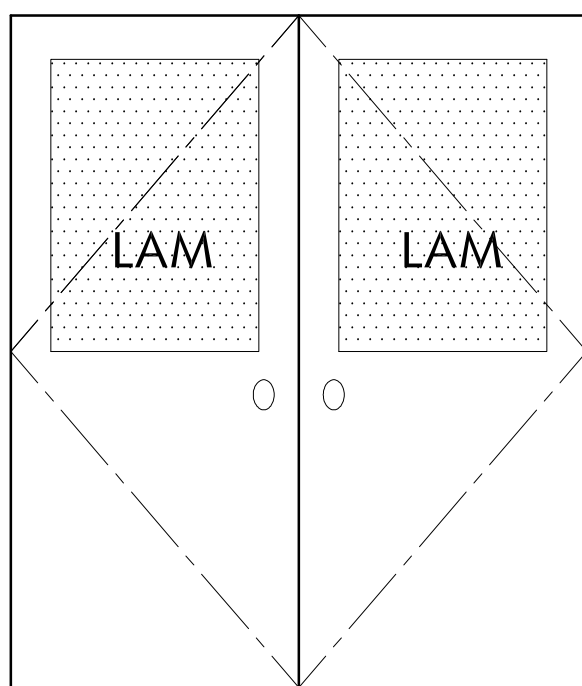
WALL COVERINGS		WALL TILE
WC1 WALLCOVERING (OFFICE) MANF. COLOUR & DESIGN BY KOROSEAL STYLE: ESTRELLE COLOR: CD2-EST-05 SHATTERED GRAPHITE	PWT1 PORCELAIN TILE MANUFACTURER: FIANDRE DISTRIBUTED BY EUROWEST STYLE: MARBLE L48 COLOR: PREMIUM WHITE - BRIGHT (POLISHED) SIZE: 12" X 24"	
FRP-1 FIBERGLASS REINFORCED PANEL MANUFACTURER: MARLITE STYLE: SMOOTH COLOR: WHITE - (S 100 S/2/S WHITE)	PWT2 PORCELAIN TILE MANUFACTURER: FIANDRE DISTRIBUTED BY ICG ITALIA STYLE: ROYAL MARBLE COLOR: ROYAL BEIGE (POLISHED) SIZE: 12" X 24"	
SHD1 WINDOW SHADE FABRIC MANUFACTURER: MECHOSHADE STYLE: EUROTWILL 6200 SERIES (2% OPEN) COLOR: NICKEL 6210	PWT3 PORCELAIN TILE MANUFACTURER: CROSSVILLE STYLE: ARGENT 2.5 COLOR: HOLLYWOOD & VINE ARGOS SIZE: 12" X 24" IN UNPOLISHED WITH CROSS-SHEEN	
	CT-1 GLAZED CERAMIC TILE MANUFACTURER: DALTILE STYLE: COLOR WHEEL LINEAR COLOR: OCEAN BLUE 1049 SIZE: 4" X 12" VERTICAL	
		WALL PAINT
	P1 PAINTED GYP. BD. (FIELD) MANUFACTURER: DUNN EDWARDS COLOR: SWISS COFFEE D6W41 FINISH, FIELD: EGGSHELL ON WALLS, FLAT ON CEILINGS FINISH, RESTROOMS/KITCHEN: SEMI-GLOSS ON WALLS AND CEILINGS	
	P2 PAINTED GYP. BD. (ACCENT) MANUFACTURER: DUNN EDWARDS COLOR: TBD FINISH: EGGSHELL	
	P3 PAINTED GYP. BD. (ACCENT) MANUFACTURER: DUNN EDWARDS COLOR: TBD FINISH: EGGSHELL	

[illegible]

NUMBER	TYPE	HOWE TYPE	LOCATION		SIZE	FRAME	DOOR LABEL	FACE MATERIAL	CORE	DETAILS			FINISH		REMARKS								
			FROM ROOM #	TO ROOM #						HEAD	JAMB	THRES.	DOOR	FRAME									
FIRST FLOOR																							
NOTE: ALL INTERIOR WOOD DOORS TO BE SELECT WHITE MAPLE VENEER WITH TRANSPARENT FINISH																							
101	H	01	101	EXT	14'-0" X 7'-8" X 1 3/4"	ALUM	NR	ALUM	GLAZ	6/A8.4	5/A8.4	3/A8.3	F	F	SLIDING AUTOMATIC ENTRANCE DOOR CR / DC / EMERGENCY PUSH OPEN								
102	H	01	101	EXT	14'-0" X 7'-8" X 1 3/4"	ALUM	NR	ALUM	GLAZ	6/A8.4	5/A8.4	3/A8.3	F	F	SLIDING AUTOMATIC ENTRANCE DOOR DC / EMERGENCY PUSH OPEN								
103	D	15	109	102	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	13/A8.3	14/A8.3	2/A8.3	ST	F									
104	D	15	109	103	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	13/A8.3	14/A8.3	2/A8.3	ST	F									
105	D	13	109	105	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	9/A8.3	10/A8.3	5/A8.3	ST	F									
106	C	14	109	106	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	11/A8.3	11/A8.3	1/A8.3	ST	F	PH-C								
107	C	14	109	106	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	11/A8.3	11/A8.3	1/A8.3	ST	F	PH-C								
108	D	13	106	104	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	13/A8.3	14/A8.3	1/A8.3	ST	F									
109	B	08	109	EXT	6'-0" X 7'-0" X 1 3/4"	ALUM	NR	ALUM	GLAZ	1/A8.4	2/A8.4	4/A8.3	F	F	PH-C/DC/CR								
110	C	14	109	110	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	12/A8.3	11/A8.3	5/A8.3	ST	F	PH-C								
111	C	14	109	110	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	12/A8.3	11/A8.3	5/A8.3	ST	F	PH-C								
112	D	13	109	-	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	9/A8.3	10/A8.3	5/A8.3	ST	F									
113	D	13	109	111	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	9/A8.3	10/A8.3	5/A8.3	ST	F									
114	D	13	109	111	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	9/A8.3	10/A8.3	1/A8.3	ST	F									
115	C	11	120	118	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	13/A8.3	14/A8.3	1/A8.3	ST	F	CR								
116	C	17	118	119	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	13/A8.3	11/A8.3	-	ST	F									
117	D	12	118	113	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	13/A8.3	14/A8.3	1/A8.3	ST	F	CR								
118	D	10	118	114	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	13/A8.3	14/A8.3	1/A8.3	ST	F									
119	C	17	118	115	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	13/A8.3	14/A8.3	-	ST	F									
120	C	17	118	116	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	GLAZ	13/A8.3	14/A8.3	-	ST	F									
121	A	09	116	123	3'-0" X 7'-2" X 1 3/4"	ALUM	NR	WD	GLAZ	13/A8.3 SIM.	14/A8.3 SIM.	7/A8.3	F	F	CR								
122	D	10	118	117	3'-0" X 7'-0" X 1 3/4"	ALUM	NR	WD	WD	13/A8.3	14/A8.3	1/A8.3	ST	F									
123	E	03	122	123	6'-4" X 7'-2" X 1 3/4"	HM	NR	HM	HM	9/A8.4	10/A8.4	7/A8.3	P	P	PH-C, WIRE GLASS								
124	E	03	122	123	6'-4" X 7'-2" X 1 3/4"	HM	NR	HM	HM	9/A8.4	10/A8.4	7/A8.3	P	P	PH-C, WIRE GLASS								
125	E	03	122	123	6'-4" X 7'-2" X 1 3/4"	HM	NR	HM	HM	9/A8.4	10/A8.4	7/A8.3	P	P									

DOOR TYPES LEGEND									
CORE	FRAME FINISH				MISC.				
SC	SOLID CORE WOOD	F	FACTORY		OH-C	OVERHEAD CLOSER CONCEALED			
HM	HOLLOW METAL	P	PAINT		OH-S	OVERHEAD CLOSER SURFACE			
FACE MATERIAL		DOOR LABEL			CR	CARD READER			
GL	GLASS				AUTO	AUTOMATIC			
TGL	TEMPERED GLASS	NR	NON-RATED		PH	PANIC HARDWARE			
HM	HOLLOW METAL	1 HR	60 MIN.		PH-C	PANIC HARDWARE CONCEALED			
WD	WOOD				KP	KEY PAD - SECURITY			
LAM	3/8" LAMINATED GLASS				NR	NON RATED			
FG	FROSTED GLASS	F	FACTORY		DC	DOOR CONTACT			
MTL	METAL				EEAWS	EMERGENCY EXIT ALARM WILL SOUND			
FLGL	FIRE/LEGLITE GLASS (UL-9377)				MKP	MILK KICK PLATE (10")			
		ST	STAIN/SEALER		MAG.	MAGNETIC			
FRAME					H.O.	HOLD OPEN			
ALUM	ALUMINUM				ES	ELECTRIC STRIKE			
		WINDOW COATING			NOTE:				
HM	HOLLOW METAL	WC	ROLL-DOWN SHADE		PH TO BE U.L. LISTED FOR ORDINARY ASSEMBLY USE.				
W.I.	WROUGHT IRON								
DOOR TYPES GENERAL NOTES									
1.	ALL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT IN ACCORDANCE WITH THE 2013 CBC.								
2.	HANDLES, PULL, LATCHES, LOCKS AND OTHER OPERABLE PART ON DOORS AND GATES THAT ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE THUMB GRASPING, PINCHING OR TWISTING OF THE WRIST. (11B-404.1.1) OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MIN. AND 44" MAX ABOVE THE FINISH FLOOR OR GROUND (11B-404.2.7).								
3.	DOOR OPENING SHALL PROVIDE A CLEAR WIDTH OF 32" MIN. SWINGING DOORS CLEAR OPENING SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24" DEEP SHALL BE 36" MIN. (11B-404.2.3).								
4.	AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL PROVIDE A CLEAR WIDTH OF 32" MIN. WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. SWINGING DOORS & GATES MANEUVERING CLEARANCES, COMPLYING WITH TABLE 11B-404.2.4.1, SHALL EXTEND THE WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE OR HINGE SIDE CLEARANCE. (11B-404.2.4.1)								
5.	FLOOR OR GROUND SURFACES WITHIN REQUIRED DOOR MANEUVERING CLEARANCES SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACES SHALL BE LEVEL WITH A SLOPE NOT STEEPER THAN 1:48. CHANGES IN LEVEL ARE NOT PERMITTED EXCEPT AT THRESHOLDS. OPENING IN FLOOR SHALL NOT ALLOW PASSAGE OF SPHERE MORE THAN 1/2" DIAMETER. (11B-302.2) (11B-404.2.4.4).								
6.	THE FRONT APPROACH LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND A LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN THE CLOSED POSITION. (11B-404.2.4.1 & TABLE 11B-404.2.4.1).								
7.	RECESSED DOORS MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18" OF THE LATCH SIDE AT AN INTERIOR DOORWAY, OR WITHIN 24" OF THE LATCH SIDE OF AN EXTERIOR DOORWAY, PROJECT MORE THAN 8" BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE. (11B-404.2.4.3 & FIGURE 11B-404.2.4.3).								
8.	PROVIDE CLEAR SPACE OF 12" PAST STRIKE EDGE OF THE DOOR ON THE OPPOSITE SIDE TO WHICH THE DOOR SWINGS IF THE DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER. (FIGURE 11B-404.2.4.1(c)).								
9.	THRESHOLDS SHALL BE 1/2" HIGH MAX. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTION 11B-302.2 AND 11B-303.1 (11B404.2.5).								
10.	SWINGING DOOR AND GATE SURFACES WITHIN 10" OF THE FINISH FLOOR SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER. (11B-404.2.10)								
11.	MAXIMUM FORCE FOR PUSHING OR PULLING OPEN, EXTERIOR OR INTERIOR HINGED DOOR WITH CLOSER AND SLIDING OR FOLDING DOOR, SHALL NOT EXCEED FIVE POUNDS. MINIMUM ALLOWABLE OPENING FORCE, FOR FIRE DOOR, NOT TO EXCEED 15 POUNDS. (11B-404.2.9).								
12.	ALL KICK PLATES TO BE MOUNTED ON THE PUSH SIDE OF DOOR. REVIEW LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.								
13.	CONTRACTOR TO PROVIDE CONDUIT ONLY TO ACCESSIBLE CEILING SPACE ABOVE ALL DOORS FOR LOW-VOLTAGE CONTACTS UNLESS OTHERWISE NOTED ON DRAWINGS.								
14.	PROVIDE SMOKE GASKETS FOR DOORS IN SMOKE BARRIERS / PARTITIONS, ELEVATOR LOBBIES, RATED CORRIDOR WALLS, AND DOOR ASSEMBLIES WHERE A SEAL IS NECESSARY TO RESTRICT THE PASSAGE OF SMOKE, SUCH AS FOR INCIDENTAL USE SPACES OR PRESSURIZED STAIRWELLS. (CBC 716.5.3.1, 710.5.2.2)								
15.	DOOR HARDWARE MUST MEET THE OPERABLE REQUIREMENT OF CBC 11B-309.								

ANTHONY MUNOZ
COMMUNITY CENTER
(GYMNASIUM BUILDING PROJECT)
1242 WEST FOURTH STREET
ONTARIO, CA 91762



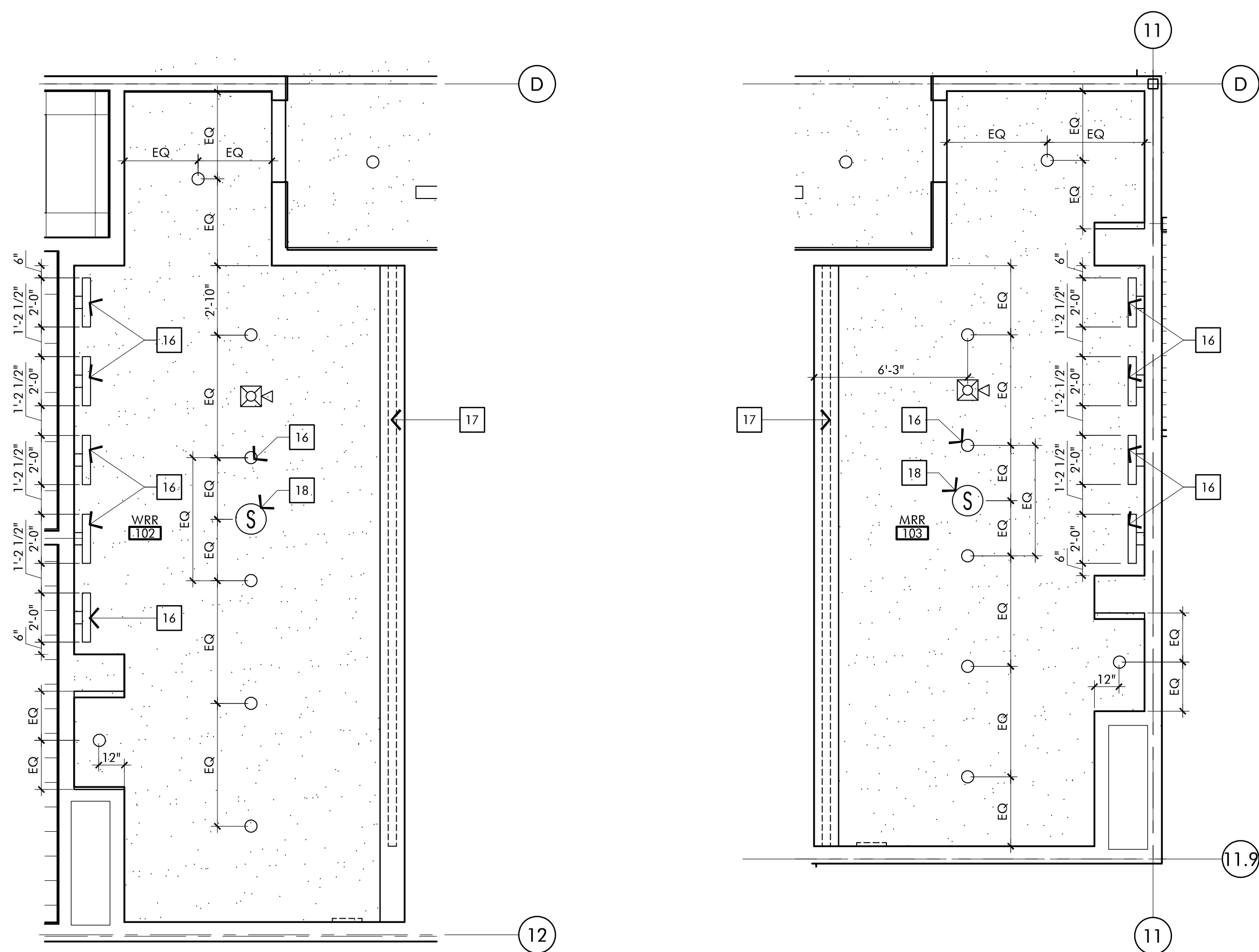
SHEET: _____

ΔΕ 2

A3.3

SCALE
1/4" = 1'-0"

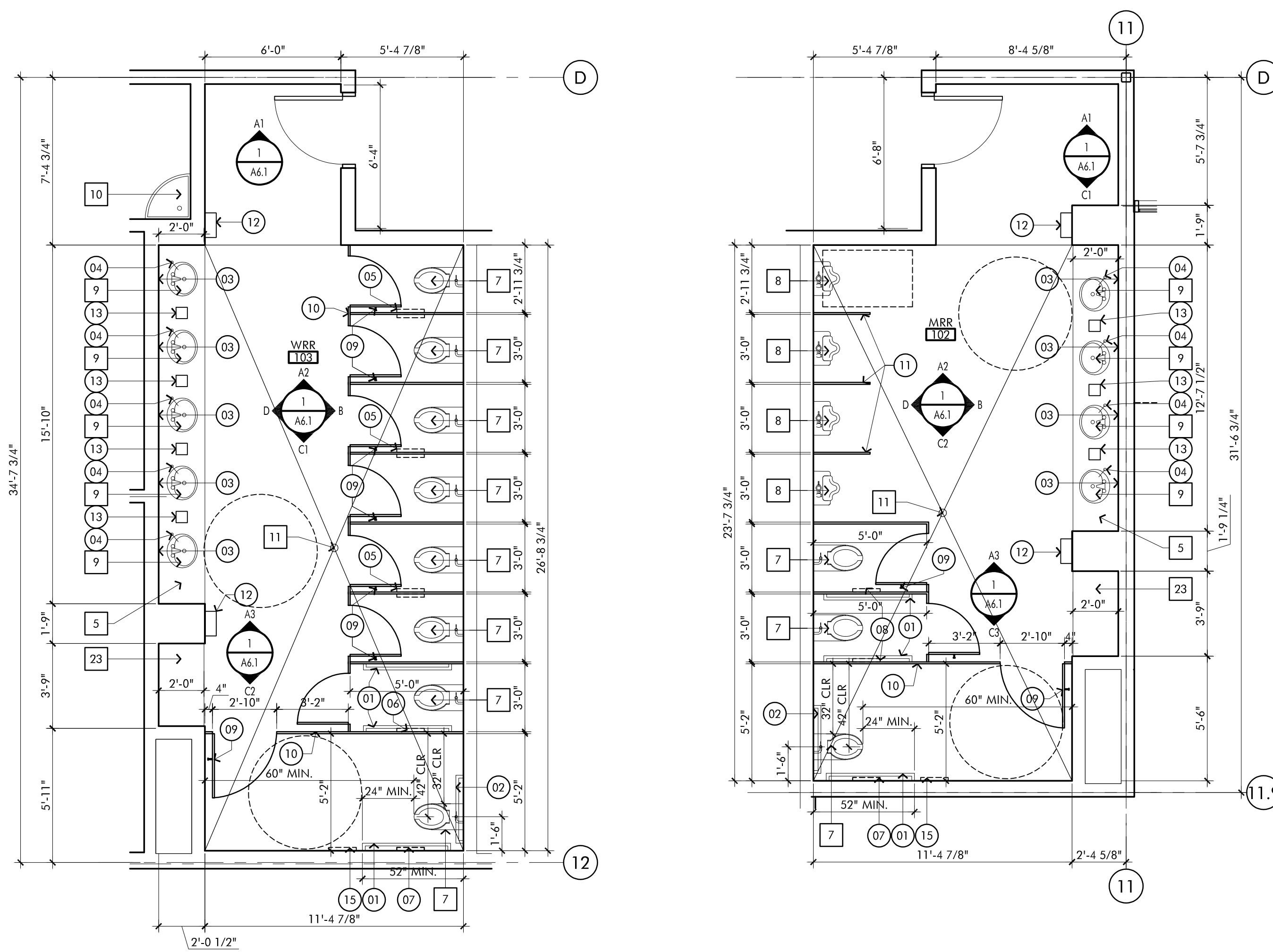
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ENLARGED RESTROOM REFLECTED CEILING PLAN

SCALE
1/4" = 1'-0"

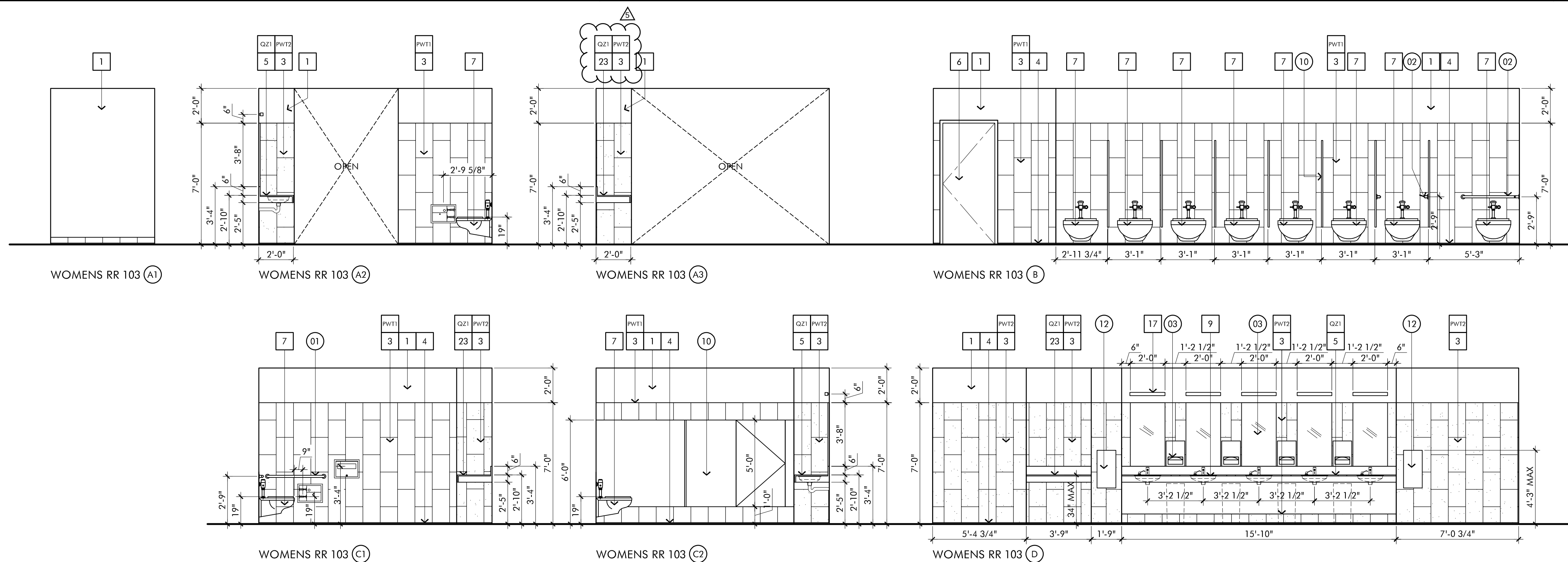
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ENLARGED RESTROOM FLOOR PLAN

SCALE
1/4" = 1'-0"

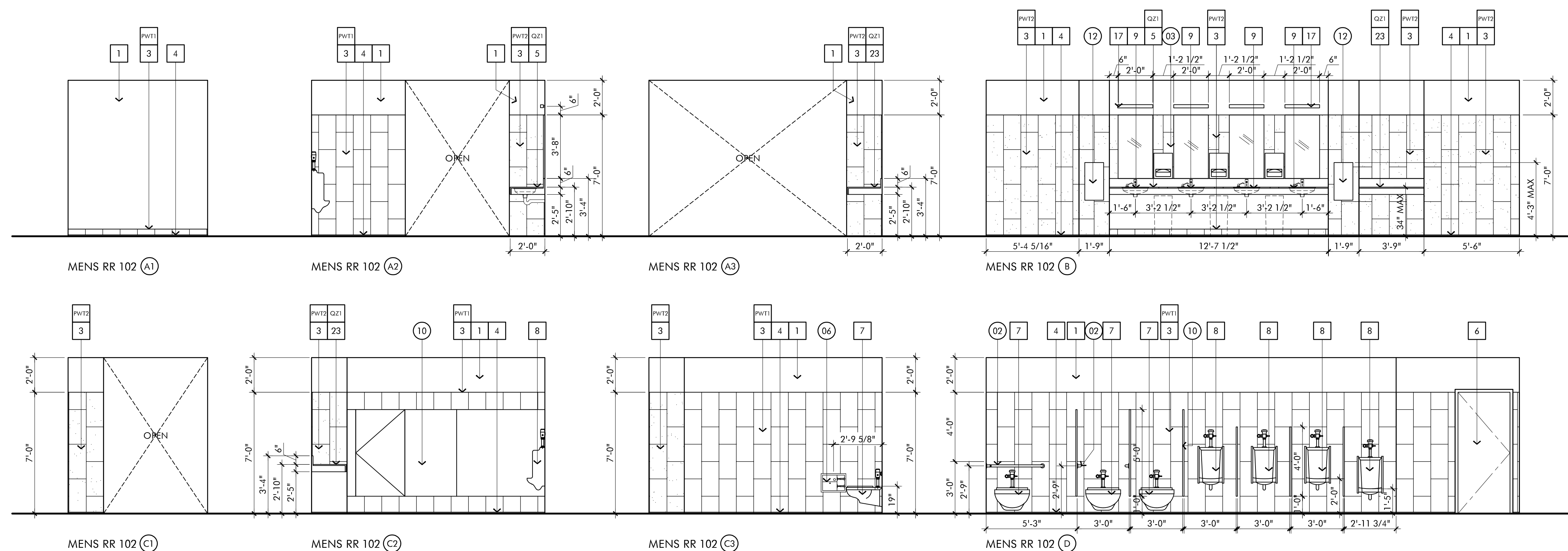
3



ENLARGED WOMENS RESTROOM 103 ELEVATIONS

SCALE
1/4" = 1'-0"

2



ENLARGED MENS RESTROOM 102 ELEVATIONS

SCALE
1/8" = 1'-0"

1

KEYNOTES

- 1 PAINTED GYPSUM BOARD
- 2 DIRECT GLUE WALLCOVERING, REFER TO FINISH SCHEDULE
- 3 WALL FIELD TILE, PORCELAIN TILE, REFER TO FINISH SCHEDULE. USE STAINLESS STEEL SCHLUTER SYSTEMS EDGE PROTECTION TRIM AT ALL EXPOSED VERTICAL AND HORIZONTAL TILE EDGES AND OUTSIDE CORNERS AS NEEDED
- 4 PORCELAIN TILE BASE W/STAINLESS STEEL SCHLUTER COVE, SEE FINISH SCHEDULE. USE STAINLESS STEEL SCHLUTER SYSTEMS EDGE PROTECTION TRIM AT ALL EXPOSED TILE EDGES AND OUTSIDE CORNERS AS NEEDED
- 5 LAVATORY COUNTERTOP, REFER TO FINISH SCHEDULE AND DETAIL 6,8/A6.2
- 6 INTERIOR DOOR, REFER TO DOOR SCHEDULE
- 7 WALL MOUNTED WATER CLOSET, REFER TO PLUMBING DWGS. ALSO SEE DETAILS 7 & 9 / A6.2
- 8 URINAL, REFER TO PLUMBING DWGS. ALSO SEE DETAIL 10 / A6.2
- 9 LAVATORY SINK, REFER TO DETAILS 6, 8/A6.2 AND PLUMBING DWGS.
- 10 JANITOR SINK, REFER TO PLUMBING DWGS.
- 11 FLOOR DRAIN, REFER TO PLUMBING DWGS.
- 12 HI-LO DRINKING FOUNTAIN, REFER TO PLUMBING DWGS. ALSO SEE DETAIL 8 / A0.3
- 13 INSTALL IDENTIFICATION SYMBOL FOR HANDICAP ACCESSIBLE TOILETS AND RAISED LETTER BRAILLE SIGN ON LATCH SIDE OF DOOR. SEE SIGN PACKAGE
- 14 WALL MOUNTED MIRROR WITH MTL. FRAME.
- 15 WALL MOUNTED EXIT SIGN, SEE ELEC DWGS.
- 16 LIGHT FIXTURE, SEE ELECTRICAL DWGS.
- 17 RECESSED LIGHT COVE, REFER TO REFLECTED CEILING PLAN & 1/A6.8
- 18 SPEAKER, SEE ELECTRICAL DRAWINGS
- 19 HVAC DIFFUSER, SEE MECH. DWGS.
- 20 HVAC EXHAUST, SEE MECH. DWGS.
- 21 PROVIDE MIN. 20" X 30" ATTIC ACCESS (PER CBC1209.2); 22" X 30" IF CONTAINING APPLIANCES. CONTRATOR TO VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- 22 44" CLEAR WIDTH FOR ACCESSIBLE ROUTES TO ACCESSIBLE TOILET COMPARTMENT.
- 23 BABY CHANGING COUNTERTOP, REFER TO FINISH SCHEDULE AND DETAIL 6,8/A6.2

RESTROOM ACCESSORIES

- | | | |
|----|--|---|
| 01 | 42" LONG GRAB BAR, 1-1/2" DIA. | BOBRICK B-6806 x 42 |
| 02 | 36" LONG GRAB BAR, 1-1/2" DIA. | BOBRICK B-6806 x 36 |
| 03 | MIRROR WITH STAINLESS STEEL FRAME SIZE TO FIT CUSTOM OPENING. SEE INTERIOR ELEVATIONS AND DETAIL 9,10/A7.1 | |
| 04 | LAVATORY-MOUNTED TOP - FILLED SOAP DISPENSERS. | BOBRICK B-8221 |
| 05 | TOILET SEAT - COVER DISPENSER, SANITARY NAPKIN DISPOSAL, & TOILET PAPER DISPENSER (PARTITION MOUNTED, SERVES (2) SIDES - WOMENS) | BOBRICK B-357 |
| 06 | RECESSED SANITARY NAPKIN DISPOSAL & TOILET PAPER DISPENSER (RECESSED, WALL-MOUNTED - WOMENS) | BOBRICK B-3574 |
| 07 | RECESSED TOILET PAPER DISPENSER WITH DISPOSAL (ONE SIDED WALL-MOUNTED) | BOBRICK B-3888 |
| 08 | TOILET SEAT COVER & TOILET PAPER DISPENSER (SURFACE MOUNTED ON PARTITION - MENS) | BOBRICK B-3479 |
| 09 | CLOTHES HOOK AND BUMPER. (STANDARD W/ PARTITIONS) | BOBRICK B-233 |
| 10 | OVERHEAD BRACED, (HDPE) TOILET COMPARTMENTS COLOR: SANDCASTLE | SCRANTON HINY HIDERS |
| 11 | (HDPE) URINAL SCREEN COLOR: SANDCASTLE | SCRANTON HINY HIDERS |
| 12 | STAINLESS STEEL HAND DRYER WITH RECESS KIT | BOBRICK B-3725 |
| 13 | 6" SQUARE CUTOUT IN COUNTERTOP MATERIAL W/ 6" WIDE X 3" DEEP SQUARE SATIN S.S. GROMMET. | MOCKETT, INC TM1 C/SQ. - 6" SQ. X 3" DEEP |
| 14 | COUNTERTOP MOUNTED PAPER TOWEL DISPENSER | BOBRICK B-526 |
| 15 | RECESSED TOILET-SEAT-COVER DISPENSER | BOBRICK B-301 |
| 16 | STAINLESS STEEL RECESSED WASTE RECEPTACLE | BOBRICK B-3644 |

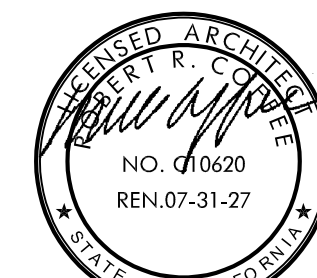
RESTROOM FINISH MATERIAL

- PT-1** PORCELAIN TILE
MANUFACTURER: FIANDRE BY EUROWEST
STYLE: NEO GENESIS, SIZE: 12" X 24"
INSTALLATION: PER FINISH PLAN
COLOR: NEO DOVE (HONED)
- PWT1** PORCELAIN WALL TILE
MANUFACTURER: FIANDRE DISTRIBUTED BY EUROWEST
STYLE: MARBLE LAB
COLOR: PREMIUM WHITE - BRIGHT (POLISHED)
SIZE: 12" X 24"
- PWT2** PORCELAIN WALL TILE
MANUFACTURER: FIANDRE DISTRIBUTED BY EUROWEST
STYLE: MARBLE LAB
COLOR: QUARZO GREIGE - BRIGHT (POLISHED)
SIZE: 12" X 24"
- P1** PAINTED GYP. BD. (FIELD)
MANUFACTURER: DUNN EDWARDS
COLOR: SWISS COFFEE DIVO41
FINISH, FIELD: EGGSHELL ON WALLS, FLAT ON CEILINGS
FINISH, RESTROOMS/KITCHEN: SEMI-GLOSS ON WALLS AND CEILINGS
- FTB** PORCELAIN TILE COVE BASE (AT PT-1/2/3)
MANUFACTURER: SCHLUTER SYSTEMS
TYPE: DILEX-EHK STAINLESS STEEL COVE-SHAPED PROFILE
- QZ-1** QUARTZ SURFACE
MANUFACTURER: CAESARSTONE
COLOR: RAW CONCRETE 6004

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PC RESUBMITTAL	02/27/26
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BID SET / PC RESUBMITTAL	07/27/26
BID ADDENDUM #3	09/08/26
BID ADDENDUM #5	09/17/26



JOB NO.: 2024.01
DRAWN BY: RCA+A
DATE: 05-11-2026

TITLE:
ENLARGED RESTROOM PLANS
AND ELEVATIONS

SHEET:

A6.1

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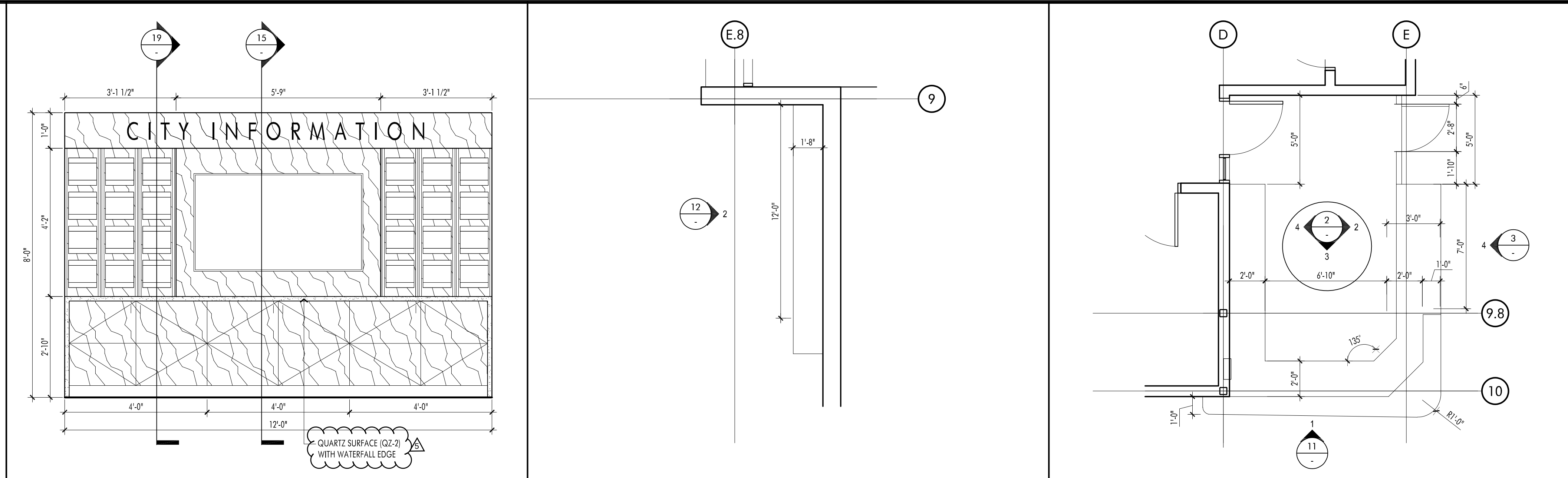


JOB NO.: 2024.01
DRAWN BY: RCA+A
DATE: 05-11-2026

TITLE: MILLWORK
DETAILS

SHEET:

A6.7



INFO WALL ELEVATION

1/2" = 1'-0"

12

INFO WALL ENLARGED PLAN

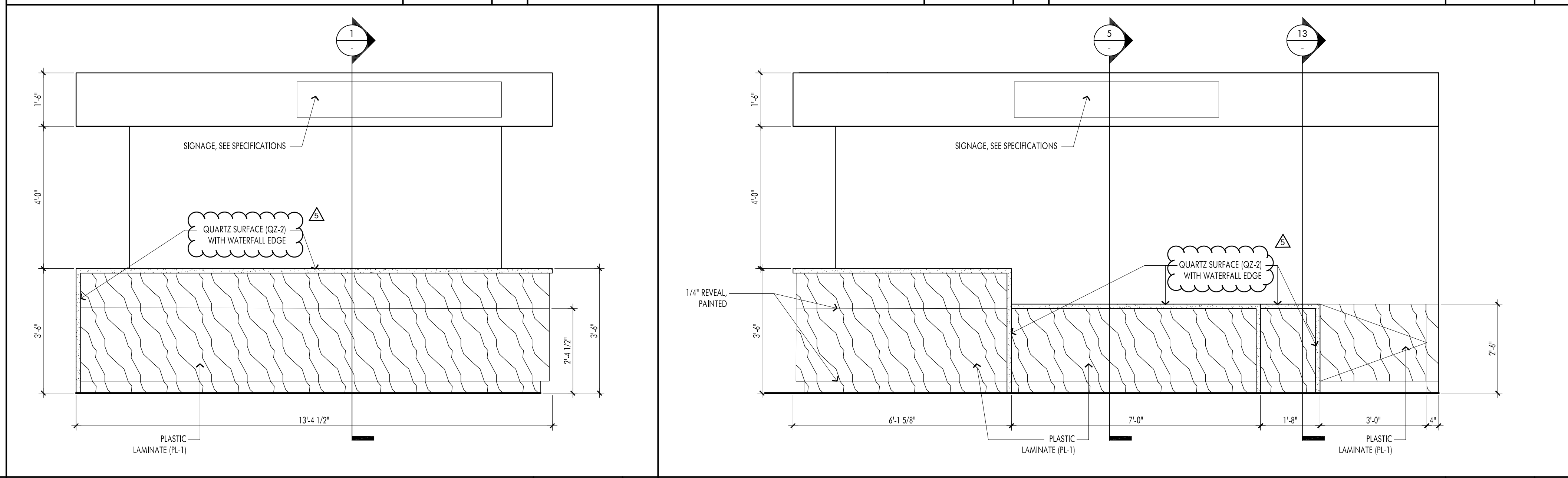
1/4" = 1'-0"

8

RECEPTION ENLARGED PLAN

1/4" = 1'-0"

4



RECEPTION DESK ELEVATION

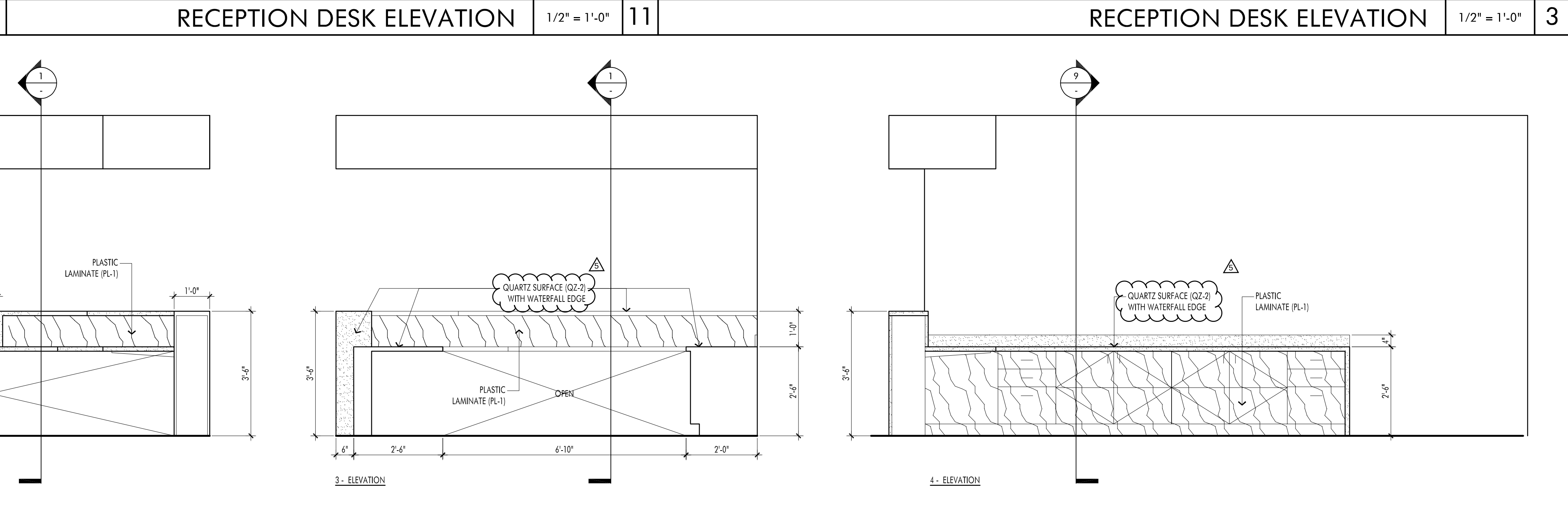
1/2" = 1'-0"

11

RECEPTION DESK ELEVATION

1/2" = 1'-0"

3



PAMPHLET BASKET

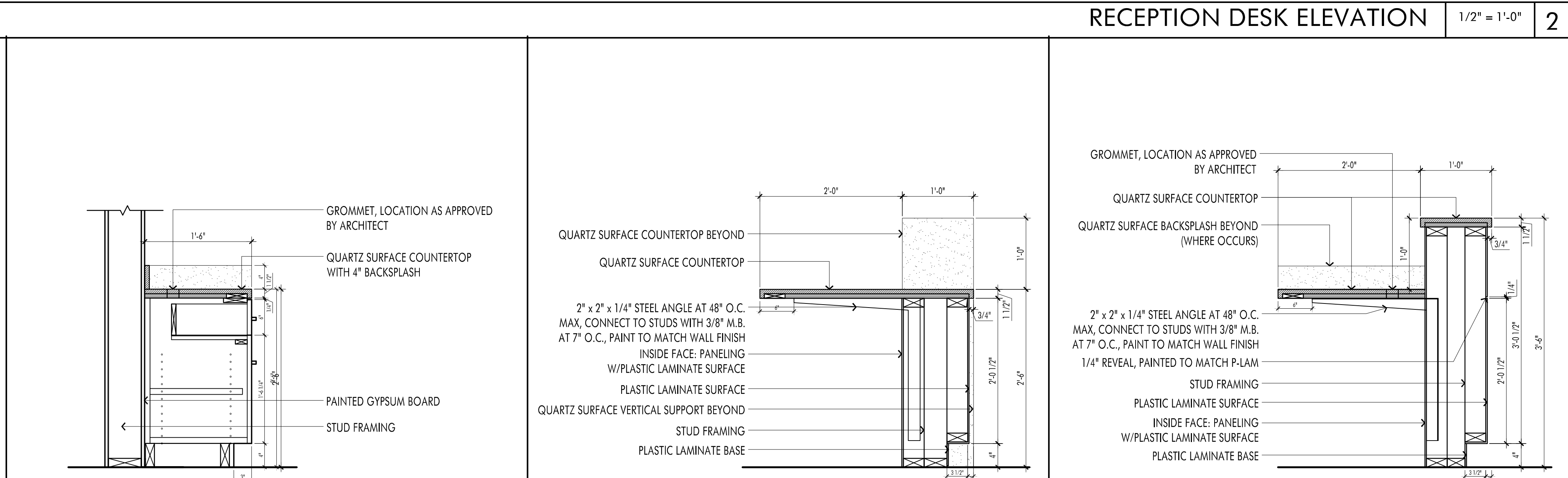
3" = 1'-0"

18

RECEPTION DESK ELEVATION

1/2" = 1'-0"

2



SECTION AT RECP DESK

1" = 1'-0"

13

SECTION AT RECP DESK

1" = 1'-0"

9

SECTION AT RECP DESK

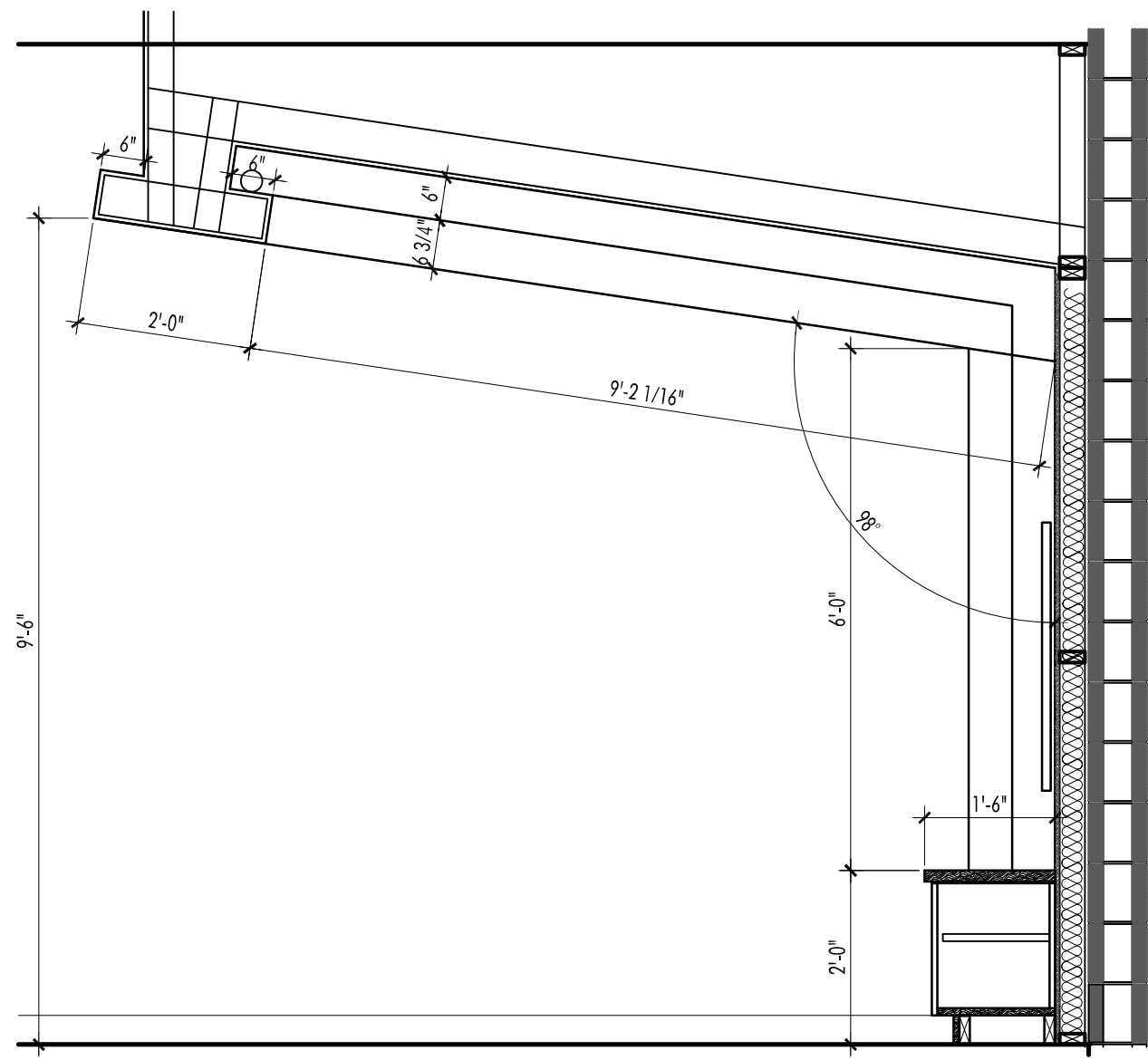
1" = 1'-0"

5

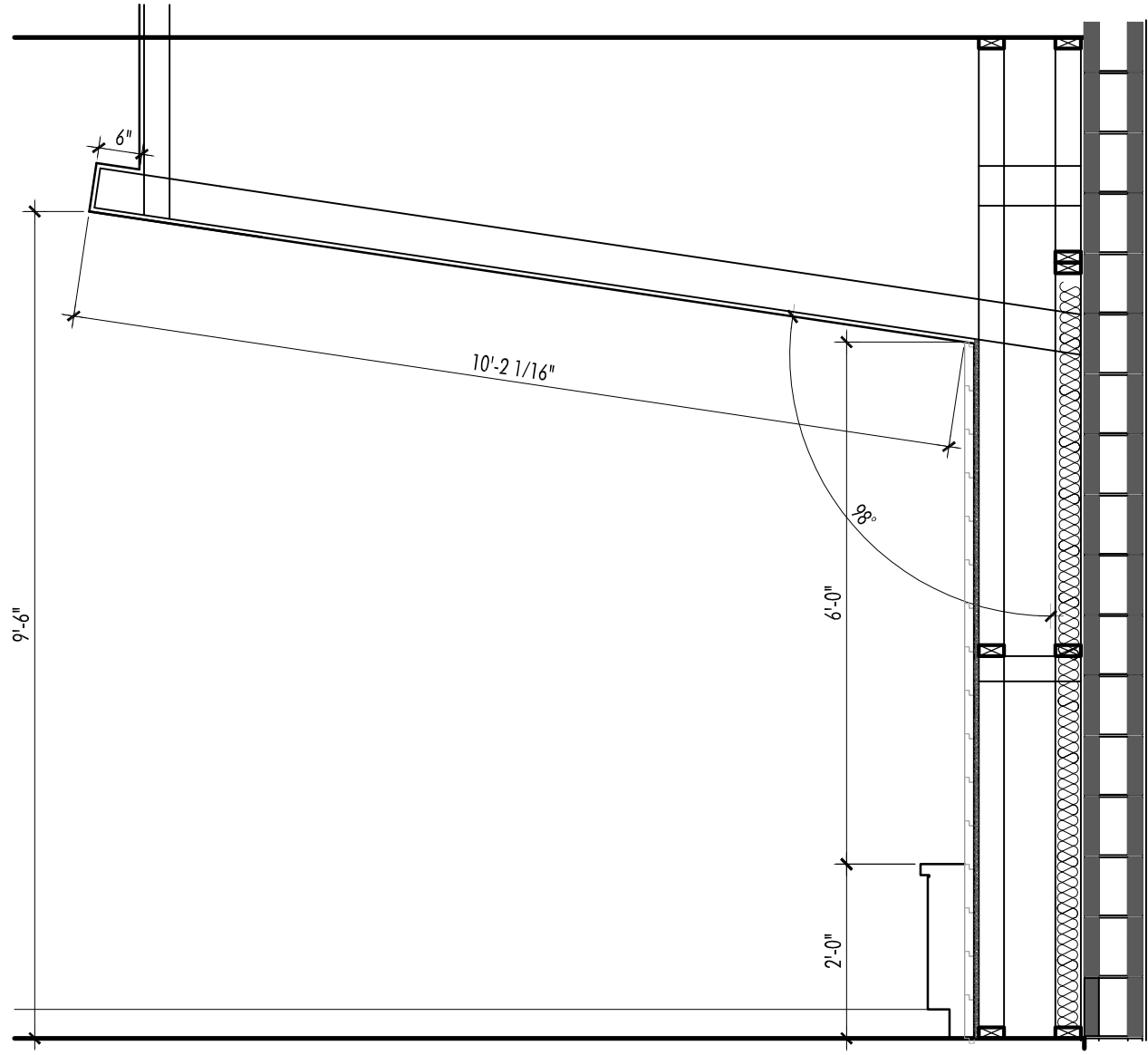
SECTION AT RECP DESK

1" = 1'-0"

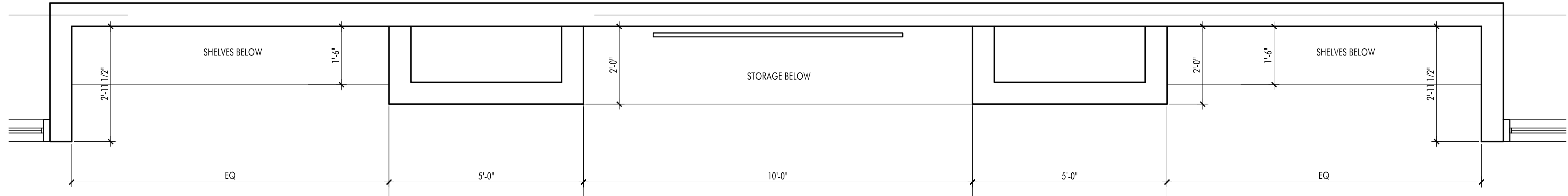
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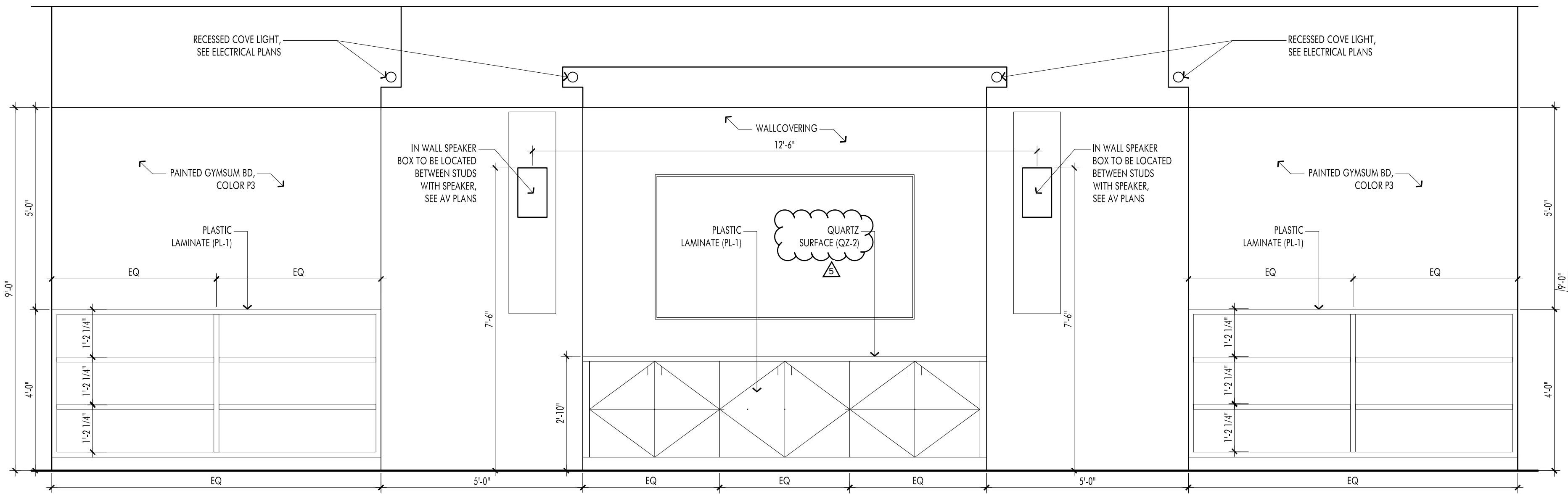
GAMING STATION SECTION 1/2" = 1'-0" 8



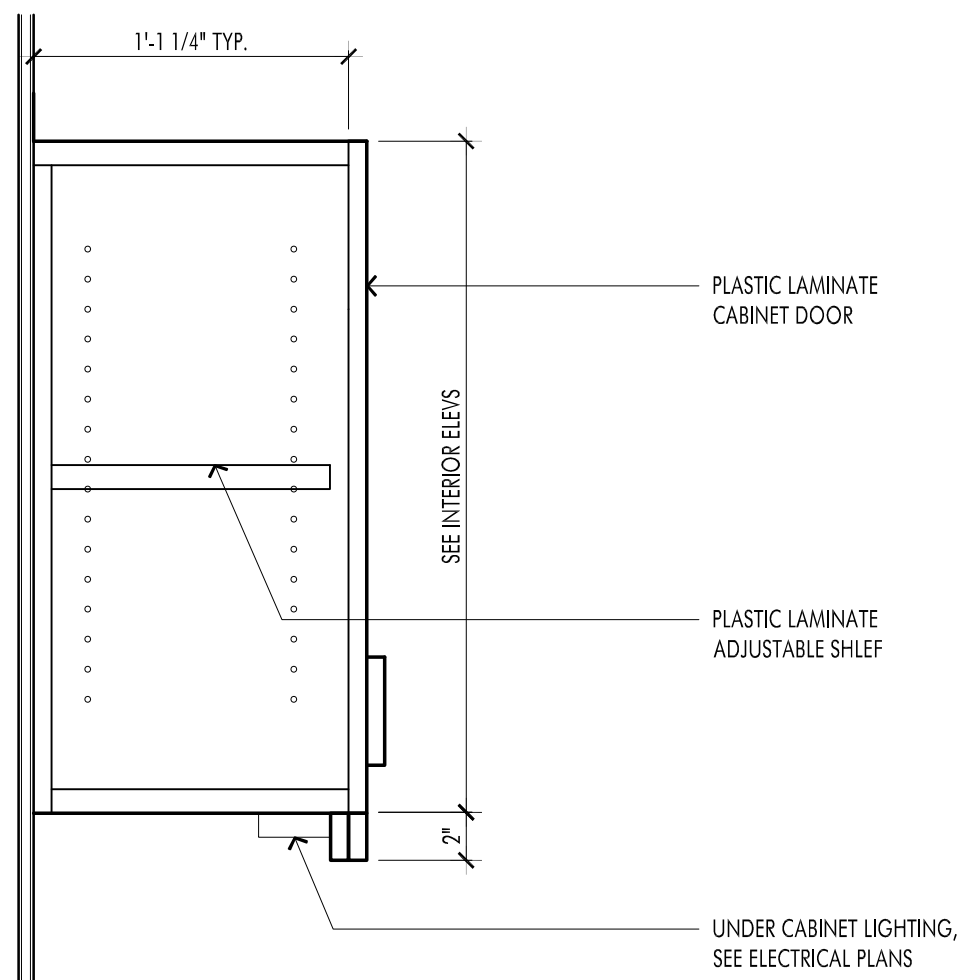
GAMING STATION SECTION 1/2" = 1'-0" 9



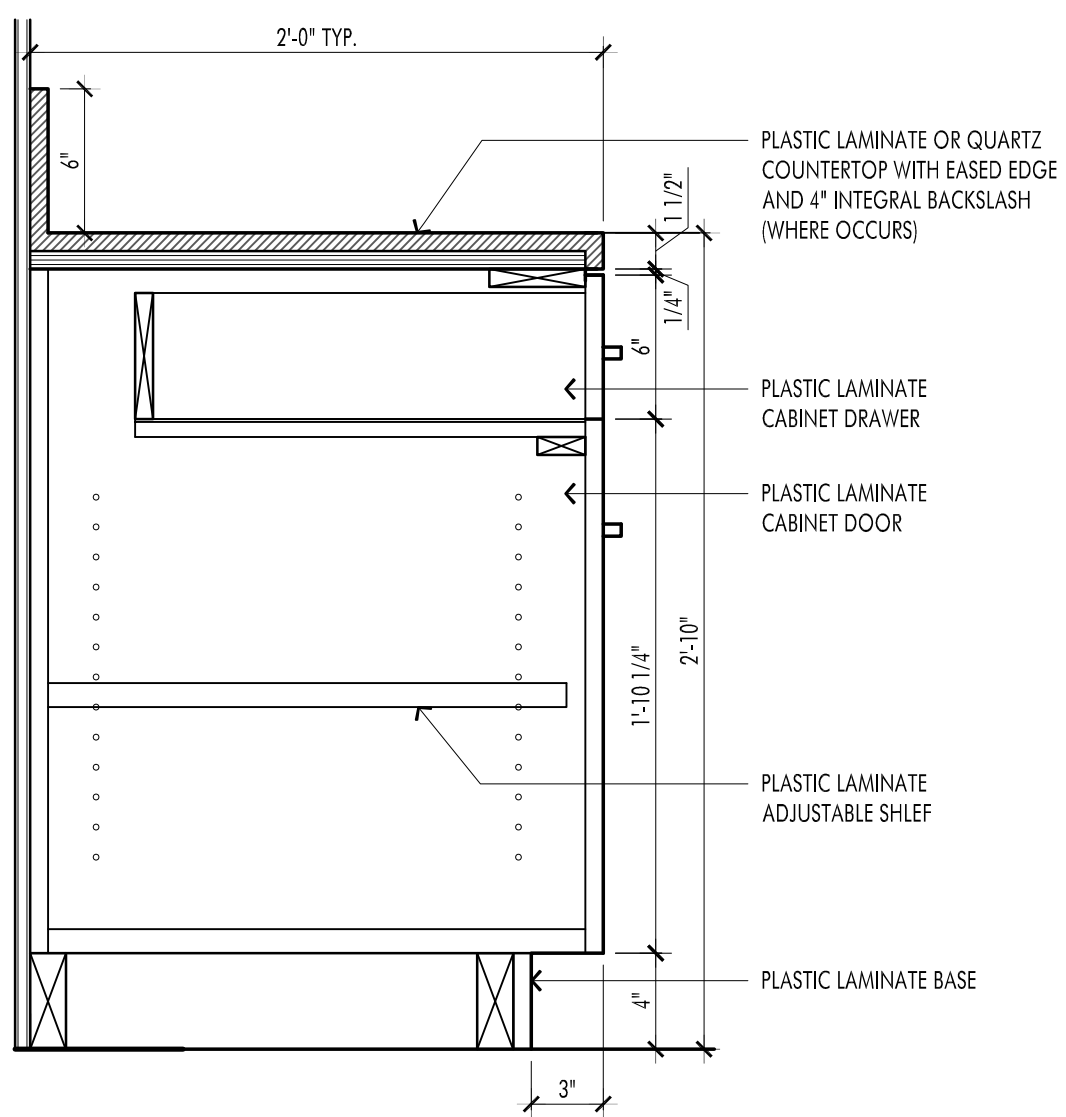
TEEN ROOM FLOOR PLAN 1/2" = 1'-0" 8



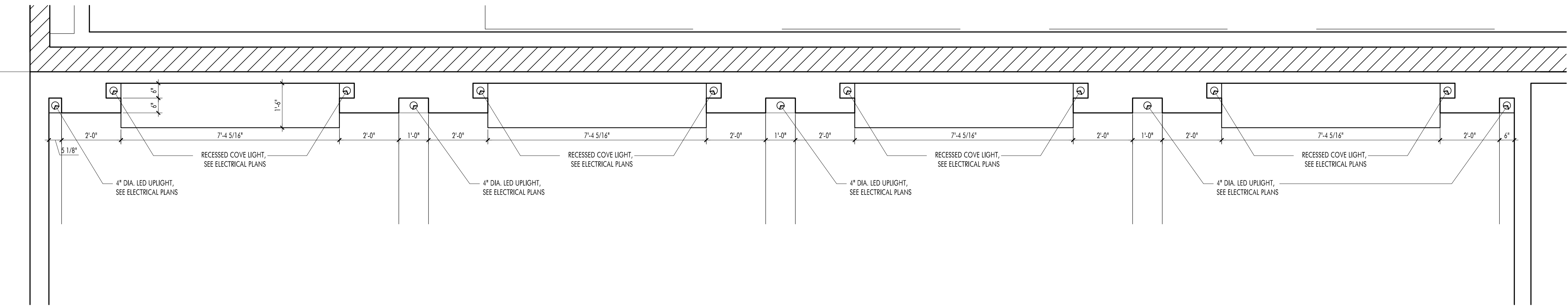
TEEN ROOM ELEVATION 1/2" = 1'-0" 7



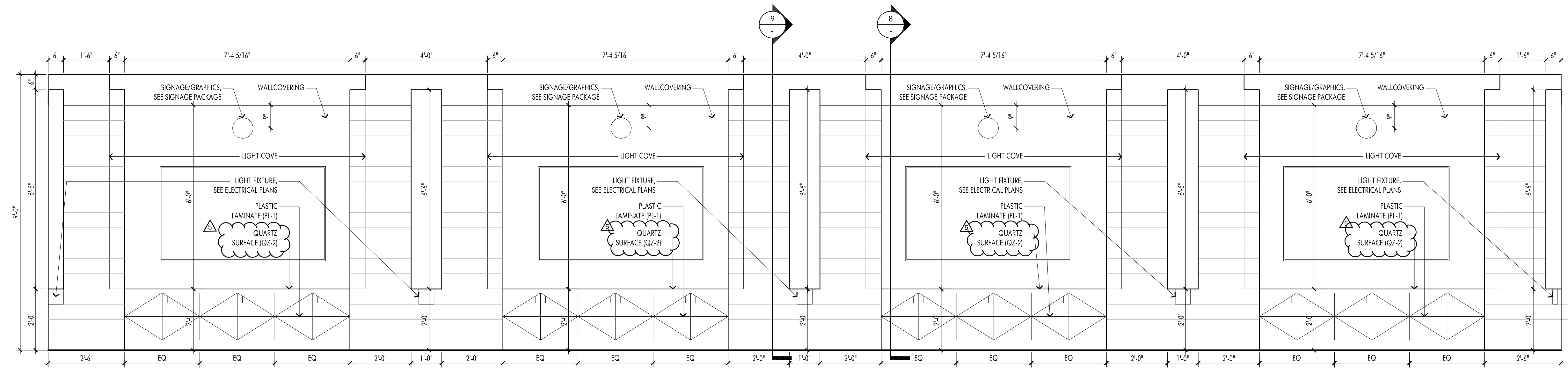
TYPICAL UPPER CABINET 1 1/2" = 1'-0" 3



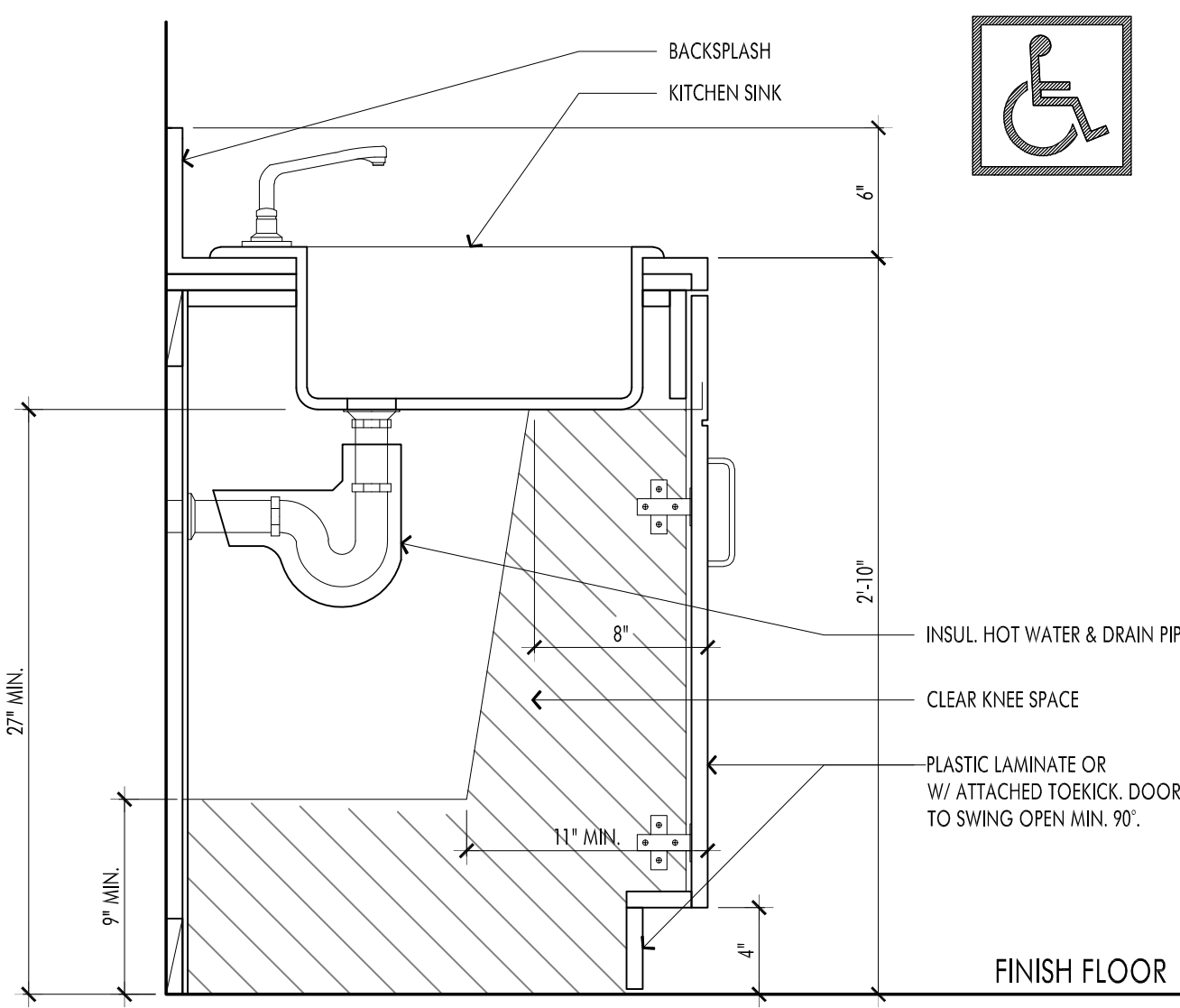
TYPICAL BASE CABINET 1 1/2" = 1'-0" 2



GAMING STATION FLOOR PLAN 1/2" = 1'-0" 6



GAMING STATION ELEVATION 1/2" = 1'-0" 5



TYPICAL ACCESSIBLE SINK 1 1/2" = 1'-0" 1

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JOB NO.:	2024.01
DRAWN BY:	RCA+A
DATE:	05-11-2026
TITLE:	MILLWORK DETAILS
SHEET:	

Panel: GPA

Project: 409.035

Location: ELEC ROOM 108

Voltage: 120/208

A.I.C Rating: 65K

Supply From: MSB2

Phases: 3

Main: L.O.

Mounting: SURFACE

Wires: 4

Bus: 225A

Note	Description	Type	Qty.	Breaker	A	B	C	CKT #	A	B	C	Breaker	Qty.	Type	Description	Note	
	EV CHARGER	L	1	40/2	3328			1	2	3328		40/2	1	L	EV CHARGER		
	-----	L	-	-		3328		3	4		3328	-	-	L	-----		
	EV CHARGER	L	1	40/2			3328	5	6			3328	40/2	1	L	EV CHARGER	
	-----	L	-	-	3328			7	8	3328		-	-	L	-----		
	EV CHARGER	L	1	40/2		3328		9	10		3328	40/2	1	L	EV CHARGER		
	-----	L	-	-			3328	11	12		3328	-	-	L	-----		
	EV CHARGER	L	1	40/2	3328			13	14	3328		40/2	1	L	EV CHARGER		
	-----	L	-	-		3328		15	16		3328	-	-	L	-----		
	SPACE							17	18					SPACE			
	SPACE							19	20					SPACE			
	SPACE							21	22					SPACE			
	SPACE							23	24					SPACE			
	SPACE							25	26					SPACE			
	SPACE							27	28					SPACE			
	SPACE							29	30					SPACE			
	SPACE							31	32					SPACE			
	SPACE							33	34					SPACE			
	SPACE							35	36					SPACE			
	SPACE							37	38					SPACE			
	SPACE							39	40					SPACE			
	SPACE							41	42					SPACE			

NOTE:

Connected Load

	A	B	C
Phase VA:	19968	19968	13312
Phase A:	166.4	166.4	110.9
Subtotal VA:	53248 VA		
Subtotal Amps:	147.8 A		

Demand Load

NEC	Demand	Load
L - L.C.L.	125%	66560
R - Receptacle	100%	0
IF > 10kVA	50%	0
K - Kitchen	65%	0
G - General	100%	0
M - Motor	100%	0
M1 - Largest Motor	125%	0
X - X-Ray	100%	0
X1 - X-Ray	50%	0
Other Loads	100%	0

Total VA: 66560 VA

Total Amps: 184.8 A

Panel: GPC

Location: ELEC ROOM 108

Supply From: MSB2

Mounting: SURFACE

Voltage: 120/208

Phases: 3

Wires: 4

A.I.C Rating: 65K

Main: L.O.

Bus: 225A

Note	Description	Type	Qty.	Breaker	A	B	C	CKT #	A	B	C	Breaker	Qty.	Type	Description	Note	
	STOR. & GALLERY RM. 124/122 LIGHTS	L	33	20/1	1247			1	2	1076		20/1	4	L	GYMNASIUM RM. 123 LIGHTS		
	TEEN ROOM 110	L	58	20/1		1630		3	4		1076		20/1	4	L	GYMNASIUM RM. 123 LIGHTS	
	FITNESS RM. STOR. AND JAN. RM	L	38	20/1			1587	5	6		1076		20/1	4	L	GYMNASIUM RM. 123 LIGHTS	
	RESTROOMS 102-103	L	25	20/1	673			7	8	1076			20/1	4	L	GYMNASIUM RM. 123 LIGHTS	
	ELECTRICAL RM 108	L	3	20/1		105		9	10		1076		20/1	4	L	GYMNASIUM RM. 123 LIGHTS	
	HALL ENTRY, INFO RM. 101, 109, 121	L	36	20/1			1783	11	12		1076		20/1	4	L	GYMNASIUM RM. 123 LIGHTS	
	STOR. AND JAN. RM. 104, 105	L	4	20/1	128			13	14	1076			20/1	4	L	GYMNASIUM RM. 123 LIGHTS	
	GAME ROOM/ STOR RECEPT.	R	4	20/1		720		15	16		1076		20/1	4	L	GYMNASIUM RM. 123 LIGHTS	
	STAFF RM. REFER AND CONV. RECEPT.	R	3	20/1			860	17	18		720		20/1	4	R	STAFF ROOM OFFICE RECEPT.	
	GYMNASIUM RECEPT.	R	6	20/1	1080			19	20	900			20/1	5	R	RECEPTION CONV. RECEPT.	
	STAFF ROOM OFFICE	R	4	20/1		720		21	22		720		20/1	4	R	GALLERY/LOBBY RECEPT.	
	MOTORIZED GATE	R	2	20/1			1000	23	24			540	20/1	3	R	GALLERY/LOBBY RECEPT.	
	FITNESS ROOM RECEPT.	R	4	20/1		720		25	26	360			20/1	2	R	GYM OFFICE RECEPT.	
	ELECTRICAL/FITNESS ROOM RECEPT.	R	4	20/1		720		27	28		360		20/1	2	R	RESTROOM RECEPT.	
	JAN., STOR. RM AND DRINK FOUNT.	R	3	20/1			540	29	30			500	20/1	1	G	SCOREBOARD	
	EXTERIOR LTS. MONUMENT SIGN	L	2	20/1	180			31	32	500			20/1	1	G	SCOREBOARD	
	ROOF RECEPT.	R	3	20/1		540		33	34		500		20/1	1	G	CURTAIN DIVIDER-GYM	
	RESTROOM HAND DRYER RECEPT.	R	1	20/1			1020	35	36		1020		20/1	1	R	RESTROOM HAND DRYER RECEPT.	
	RESTROOM HAND DRYER RECEPT.	R	1	20/1	1020			37	38	1020			20/1	1	R	RESTROOM HAND DRYER RECEPT.	
	PARKING LOT LIGHTS	L	5	20/1		798		39	40		500		20/1	4	G	MOTORIZED BACKBOARD	
	EXTERIOR LIGHTING	L	46	20/1			470	41	42		500		20/1	4	G	MOTORIZED BACKBOARD	
	FLAG POLE LIGHTS	L	2	20/1		94		43	44	500		20/1	4	G	MOTORIZED BACKBOARD		
	GATE#2 CARD READER	G	1	20/1		100		45	46		2500	30/2	1	L	EM. BATT. INV		
	SPARE			20/1				47	48			2500	--	-	L	----	
	SPARE			20/1				49	50			20/1			SPARE		
	SPARE			20/1				51	52			20/1			SPARE		
	SPARE			20/1				53	54			20/1			SPARE		

NOTE:

Connected Load

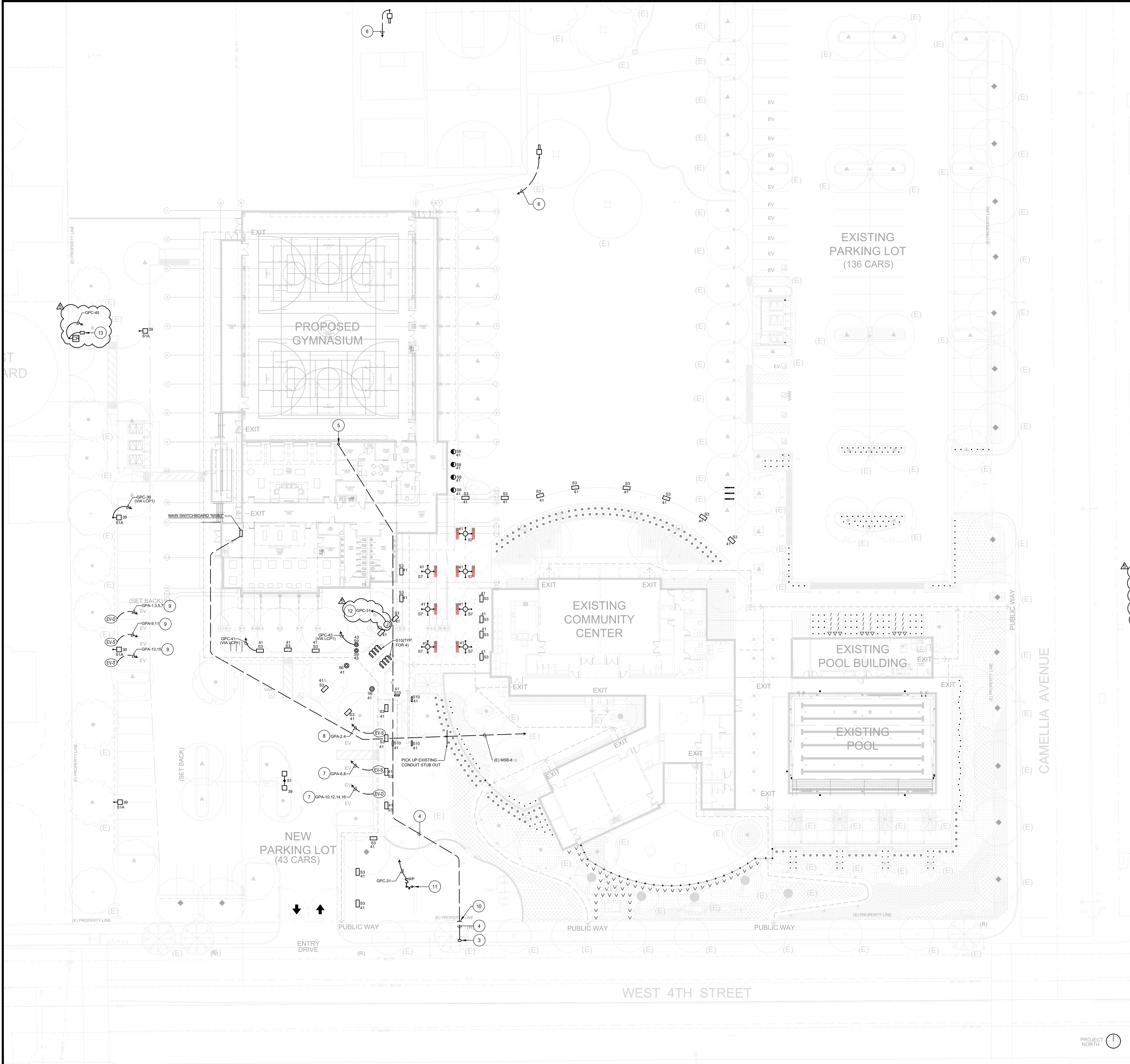
	A	B	C
Phase VA:	11648	13141	15192
Phase A:	97.1	109.5	126.6
Subtotal VA:	39981 VA		
Subtotal Amps:	111.0 A		

Demand Load

	Demand	Load
L - L.C.L.	125%	27876
R - Receptacle	100%	10000
IF > 10kVA	50%	2290
K - Kitchen	65%	0
G - General	100%	3100
M - Motor	100%	0
M1 - Largest Motor	125%	0
X - X-Ray	100%	0
X1 - X-Ray	50%	0
Other Loads	100%	0

Total VA: 43266 VA

Total Amps: 120.1 A



GENERAL NOTES

1. LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE ENGINEER SHOULD SEARCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK BY CONTACTING UNDERGROUND SERVICE ALERT (U.S.A.) AT (800) 422-4133, OR OTHER LOCAL APPLICABLE UNDERGROUND SERVICE ALERT AGENCIES.
3. THE DRAWINGS ILLUSTRATE LOCATIONS OF EQUIPMENT AND ASSEMBLIES, PULLBOXES, MANHOLES, HANDHOLES, AND VAULTS, INCLUDING OTHER ELECTRICAL UNDERGROUND STRUCTURES AND PATHWAYS. CONTRACTOR SHALL CLOSELY COORDINATE EXACT LOCATIONS AND MOUNTING DEPTHS OF ALL DEVICES, STRUCTURES AND PATHWAYS WITH OTHER TRADES PRIOR TO PLACEMENT, TO ENSURE FINAL LOCATIONS ARE OUTSIDE FEATURE LANDSCAPE AND ARCHITECTURAL AREAS AND ARE NOT IN CONFLICT WITH THE INSTALLATION OF MATERIALS BY OTHER TRADES.
4. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE PLANS FOR EXACT LOCATION OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL EQUIPMENT AND DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH ARCHITECT OR OWNERS' REPRESENTATIVE PRIOR TO ROUGH-IN, TO ENSURE SUCH ITEMS ARE NOT PLACED IN PLANTING / HARDSCAPE AREAS.
5. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF, NEMA 3R RATED.
6. ALL UNDERGROUND CONDUIT SIZE SHALL NOT BE LESS THAN 3/4" - U.N.O.
7. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.N.O.
8. ALL SITE BRANCH CIRCUIT CONDUIT RUNS SHALL INCLUDE AN EQUIPMENT GROUND THAT AT A MINIMUM, MATCHES THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR.
9. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

KEY NOTES

1. PROVIDE NEW STREET LIGHT PER CITY OF ONTARIO STANDARDS. STREET LIGHT #5101-TYPE C 5108
2. TIE INTO EXISTING STREET LIGHT CIRCUIT
3. EXISTING CITY OF ONTARIO BROAD BAND HANDLE HOLE.
4. 2" HDPE SDR-11 (SMOOTHWALL) ROLL PIPE (ORANGE) DUCT, MINIMUM DEPTH 36". TRENCHING PER CITY STANDARDS FOR COMMERCIAL BUILDINGS. PROVIDE LOCATE/TRACE WIRE, MINIMUM 12 AWG. WITHIN CONDUIT BANK AND FIBER WARNING TAPE 18" ABOVE DUCT.
5. TERMINATE IN I.T. ROOM
6. 3/4" C.O TO I.T. ROOM 113
7. 1" C. 2#4 & 1#8 GRD
8. 3/4" C. 2#6 & 1#10 GRD.
9. 3/4" C. 2#8 & 1#10 GRD
10. INTERCEPT FIBER OPTIC BROADBAND CONDUIT AND EXTEND TO GYMNASIUM I.T. ROOM
11. CONNECT TO MONUMENT SIGN.
12. CONNECT TO SIGN KIOSK. COORDINATE REQUIREMENTS WITH KIOSK INSTALLER.
13. PROVIDE AN 11" x 17" CONCRETE PULL BOX WITH 1" CONDUIT FOR LOW-VOLTAGE CONNECTION TO CARD READER. TERMINATE CONDUIT IN I.T. ROOM. COORDINATE EXACT REQUIREMENTS WITH LOW-VOLTAGE PLANS AND CARD-READER INSTALLER.

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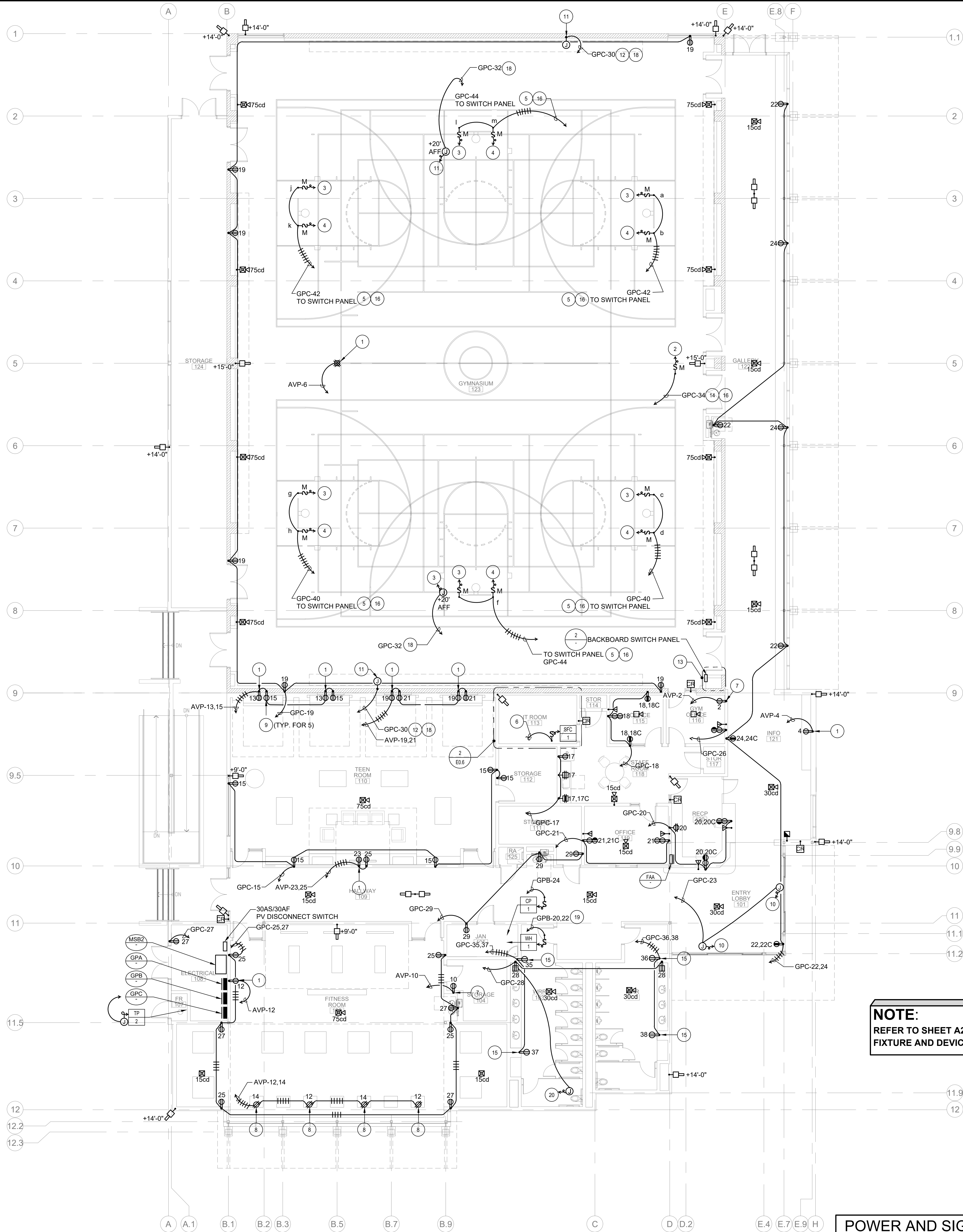
REVISIONS	DATE
1ST BUILDING SUBMITTAL	09/19/25
PC RESUBMITTAL	02/27/26
2ND PC RESUBMITTAL	05/11/26
BID ADDENDUM 3	09/08/26
ADDENDUM 5	09/17/26

REGISTERED PROFESSIONAL ENGINEER
No. E 10372
Exp. 09-30-28
09/16/2026

JOB NO.: 2024.01
DRAWN BY: RCA+A
DATE: 05-11-2026

TITLE: ELECTRICAL SITE PLAN

SHEET: E1.1



NOTE:
REFER TO SHEET A2.3 FOR EXACT FIRE ALARM
FIXTURE AND DEVICE LOCATIONS.



POWER AND SIGNAL PLAN

SCALE
1/8" = 1'-0"

1

BACKBOARD SWITCH PANEL

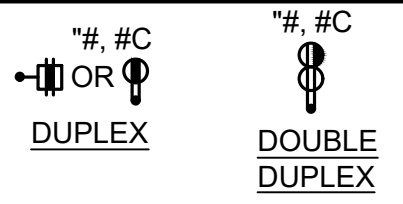
SCALE
NONE

2

KEY NOTES

- 1 MOUNT IN AV BOX. REFER TO AV PLANS FOR REQUIREMENTS.
- 2 CONNECT TO MOTORIZED CURTAIN. COORDINATE POINT OF CONNECTION WITH CURTAIN INSTALLER AND SHOP DRAWING. PROVIDE CONDUIT AND WIRING FOR CONTROLS.
- 3 MOUNT JUNCTION BOX ON UNDERSIDE OF ROOF STRUCTURE AND CONNECT TO 120V-MOTORIZED BACKBOARD AS REQUIRED.
- 4 PROVIDE CONNECTION TO BACKBOARD HEIGHT ADJUSTMENT MOTOR IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS REQUIREMENTS.
- 5 PROVIDE 3/4" C. WITH 6#12 BACK TO DESIGNATED SWITCH FOR CONTROL OF MOTORIZED BACKBOARD AND MOTORIZED HEIGHT ADJUSTMENT AT SWITCH PANEL. SEE DETAIL 2/E2.2.
- 6 POWERED FROM ASSOCIATED ROOF TOP CONDENSING UNIT. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
- 7 FOR CONNECTION TO SOURCE INPUT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH AV INSTALLER.
- 8 MOUNT FLUSH ON CEILING. REFER TO AV PLANS FOR EXACT LOCATION AND REQUIREMENTS.
- 9 MOUNT RECEPTACLE ADJACENT TO HDMI PANEL. REFER TO AV PLANS FOR EXACT LOCATION AND REQUIREMENTS.
- 10 CONNECT TO MOTORIZED SLIDING DOOR.
- 11 FOR CONNECTION TO SCOREBOARD OR SHOT CLOCK. MOUNT AT 20'-0" AFF.
- 12 ROUTE CONDUIT UP TO SCOREBOARD ON INSIDE FACE OF MASONRY WALL INSIDE FURRED OUT GYM BOARD WALL.
- 13 CHASE TO BE USED FOR ALL CONDUIT TO RUN UP TO GYMNASIUM ROOF FOR POWER, LIGHTING AND SPEAKERS.
- 14 3/4" C. - 3#12 TO DESIGNATED SWITCH FOR CURTAIN DIVIDER.
- 15 CONNECT TO HAND DRYER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HAND DRYER INSTALLER.
- 16 ORGANIZE AND COMBINE ALL CONDUITS FOR ELECTRICAL POWER, LIGHTING, AND LOW VOLTAGE SYSTEMS REQUIRED IN THE CEILING OF THE GYM TO GO UP TO HIGH CEILING.
- 17 CONNECT TO SHOT CLOCK.
- 18 ROUTE THRU DESIGNED SWITCH FOR CONTROL OF SCOREBOARD AND SHOT CLOCK AT SWITCH PANEL.
- 19 1" C. - 3#8 & 1#10 GRD.
- 20 CONNECT TO TRAP PRIMER.
- 21 REMOTE FIRE ALARM ENUNCIATOR.

CONTROLLED RECEPTACLE DETAIL

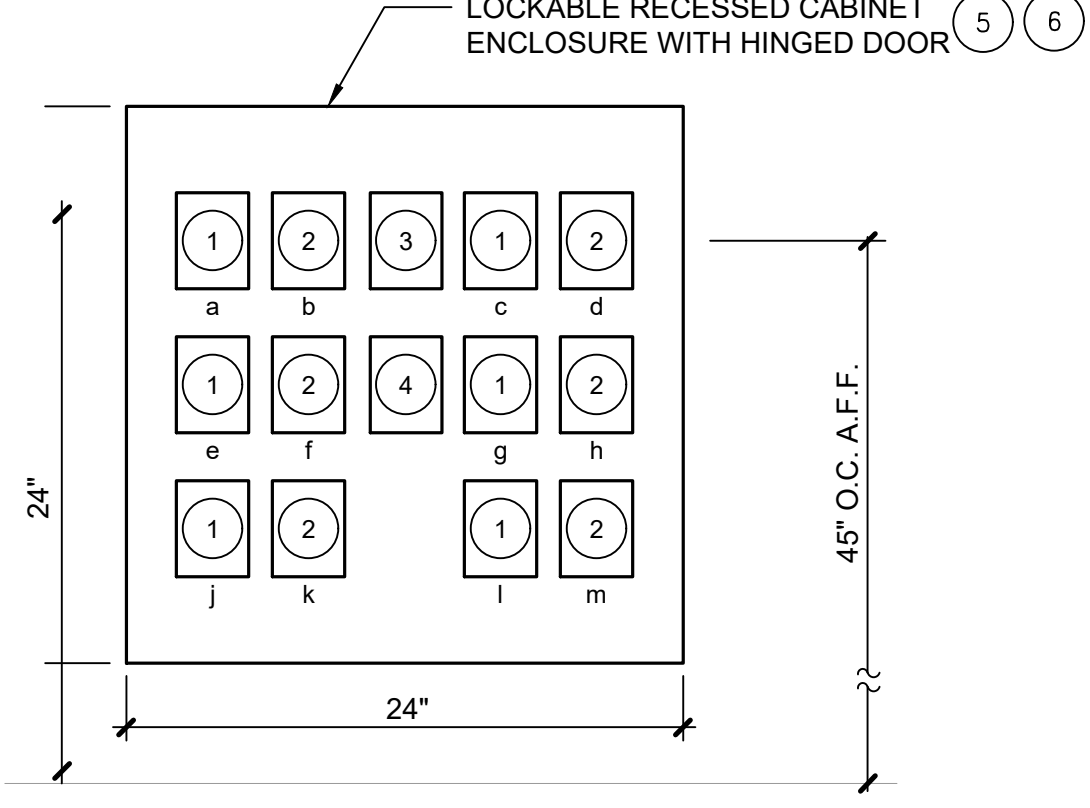


NOTE:

SUBSCRIPT / SUPERScript "H, #C" INDICATES SPLIT WIRED RECEPTACLE CONTROLLED BY ROOM'S LIGHTING CONTROLS. REFER TO LIGHTING CONTROL SYSTEM DIAGRAM ON SHEET ED.3 FOR ADDITIONAL REQUIREMENTS. CONTROLLED PORTION OF RECEPTACLE SHALL BE IMPRINTED "CONTROLLED". REFER TO SYMBOLS LIST FOR ADDITIONAL INFORMATION.

GENERAL NOTES

1. ALL CONDUIT RUN EXPOSED THROUGH GYM SHALL BE ROUTED AS INCONSPICUOUSLY AS POSSIBLE. ROUTING OF CONDUITS SHALL BE COORDINATED WITH ARCHITECT.
2. SUBMIT CONDUIT LAYOUT SHOP DRAWING FOR APPROVAL PRIOR TO ROUGH-IN OF ALL CONDUITS IN GYMNASIUM.
3. PROVIDE ALL LOW VOLTAGE CONDUIT, BOXES AND CABLE TRAY AS SHOWN ON THE AV DRAWINGS.
4. PROVIDE ALL LOW VOLTAGE CONDUIT, BOXES, AND PULL STRINGS FOR SECURITY CAMERAS AND CARD READERS. TERMINATE AT SECURITY PANEL IN I.T. ROOM 113.



DETAIL PLAN NOTES:

- 1 BACKBOARD RAISE AND LOWER MOTORIZED SWITCH.
- 2 ADJUSTABLE HEIGHT BACKBOARD MOTORIZED SWITCH.
- 3 SCOREBOARD, SHOT CLOCK SWITCH
- 4 CURTAIN DIVIDER SWITCH.
- 5 PROVIDE 24" W X 24" H X 9" D. FLUSH MOUNTED LOCKABLE CABINET. REFERENCE SHEET ED.4 DETAIL 6 FOR SWITCH LAYOUT.
- 6 PROVIDE A HORSEPOWER RATED, 3 POSITION, KEYSWITCH MOMENTARY CONTACT SWITCH WITH CENTER 'OFF' FOR CONTROL OF EACH MOTORIZED BACKBOARD AND ROOM DIVIDER. ENGRAVE SWITCH PLATE: "BACKBOARDS" ETC... SWITCHES TO BE LOCATED IN LOCKABLE ENCLOSURE. PROVIDE TOGGLE SWITCH FOR SCOREBOARD.

NOTE:
PROVIDE ENGRAVED NAMEPLATE FOR EACH SWITCH
DESCRIPTION VERIFY WORDING WITH OWNER

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TITLE:	POWER AND SIGNAL PLAN
SHEET:	E2.2

PV SYSTEM GENERAL NOTES

1. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF THE PV SYSTEM. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.
2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUITS, PANELS, ETC. THE LOCATION OF ALL ITEMS SHOWN ARE NOT SECURE. THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE PROJECT AND SHALL HAVE THE APPROVAL OF THE DESIGN PROFESSIONAL BEFORE BEING INSTALLED. DO NOT SCALE THE DRAWINGS.
3. THE PV CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT SHOWN ON THESE DRAWINGS UNLESS NOTED ON THESE DRAWINGS AND SPECIFICATIONS THAT SUCH WORK IS TO BE PROVIDED BY OTHERS.
4. THE PLANS REPRESENT ONLY THE FINISHED PHOTOVOLTAIC (PV) SYSTEMS, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.
5. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE PV CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE PHOTOVOLTAIC WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER'S REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.
6. PRIOR TO BID, PV CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF THE ELECTRICAL WORK. INSTALLATION METHOD OF ALL ELECTRICAL WORK SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND THE WORK TO BE PERFORMED.
7. PV CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND REPORT ANY DISCREPANCIES BEFORE COMMENCING WORK.
8. THE DRAWINGS ARE NOT INTENDED TO ILLUSTRATE OR SET FORTH EVERY ITEM NECESSARY FOR THE WORK, AS IT IS ASSUMED THAT THIS BID SUBMISSION, THE PV CONTRACTOR ACKNOWLEDGES THAT HE IS AN EXPERT IN THE SEVERAL LINES OF THE WORK AND IS CAPABLE OF INTERPRETING THEM.
9. THE PV CONTRACTOR SHALL BECOME FAMILIAR WITH ALL INSTALLATION INFORMATION IN THE EQUIPMENT DOCUMENTATION FROM THE MANUFACTURER PRIOR TO BEGINNING INSTALLATION AND SHALL OBSERVE THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND PROVIDE CONNECTIONS TO ALL EQUIPMENT AS RECOMMENDED BY THE MANUFACTURER.
10. THE PV CONTRACTOR SHALL BE A LICENSED (C-46) SOLAR CONTRACTOR OR A LICENSED (C-10) ELECTRICAL CONTRACTOR.
11. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
 - A. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
 - B. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE, FIELD VERIFY DIMENSIONS PRIOR TO BID.
 - C. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS, AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
 - D. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ELECTRICAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
12. THESE PLANS AND SPECIFICATIONS AND ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION THE FOLLOWING:
 - A. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2025 EDITION.
 - B. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2025 EDITION.
 - C. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2025 EDITION.
 - D. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2025 EDITION.
 - E. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
 - F. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").
 - G. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
 - H. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
 - I. FOR PROJECTS WITHIN THE CITY OF LOS ANGELES ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY.
13. CEC ART. 690.9(A). ALL CIRCUITS CONNECTED TO MORE THAN ONE (1) SOURCE SHALL HAVE OVERCURRENT DEVICES LOCATED SO AS TO PROVIDE OVERCURRENT PROTECTION FROM ALL SOURCES.
14. CEC ART. 690.14. EACH DC DISCONNECT SHALL BE LABELED WITH: "SOLAR PHOTOVOLTAIC POWER SYSTEM EMERGENCY DC DISCONNECT". LABEL SHALL BE 2-INCHES X 4-INCHES MINIMUM WITH UV RESISTANT RED LETTERS ON WHITE BACKGROUND.
15. CEC ART. 690.14. EACH AC DISCONNECT SHALL BE LABELED WITH: "SOLAR PHOTOVOLTAIC POWER SYSTEM AC DISCONNECT". LABEL SHALL BE 2-INCHES X 4-INCHES MINIMUM WITH UV RESISTANT RED LETTERS ON WHITE BACKGROUND.
16. CEC ART. 690.17. EACH AC DISCONNECT SHALL ALSO BE LABELED WITH: "WARNING! - ELECTRIC SHOCK HAZARD - DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN OPEN POSITION". LABEL SHALL BE 2-INCHES X 4-INCHES MINIMUM WITH UV RESISTANT RED LETTERS ON WHITE BACKGROUND.
17. CEC ART. 690.18. DUE TO THE FACT THAT PV MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT, PV CONTRACTOR SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY SHORT CIRCUITING, OPEN CIRCUITING OR COVERING THE ARRAY WITH AN OPAQUE COVERING.
18. CEC ART. 690.35(F). THE PHOTOVOLTAIC POWER SOURCE SHALL BE LABELED WITH THE FOLLOWING WARNING AT EACH JUNCTION BOX, COMBINER BOX, DISCONNECT, AND DEVICE WHERE THE UNGROUNDED CIRCUITS MAY BE EXPOSED DURING SERVICE: "WARNING: ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED".
19. CEC ART. 690.49 REMOVAL OF UTILITY-INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BONDING CONNECTION GROUNDING ELECTRODE CONDUCTOR AND THE PHOTOVOLTAIC SOURCE AND/OR OUTPUT CIRCUIT GROUNDING CONDUCTOR.
20. CEC ART. 690.56(B). BUILDING OR STRUCTURES WITH BOTH UTILITY SERVICE AND A PHOTOVOLTAIC SYSTEM SHALL HAVE A PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THIS SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS, IF NOT LOCATED AT THE SAME LOCATION.
21. PHOTOVOLTAIC SYSTEM SHALL BACKFEED THE DISTRIBUTION SYSTEM ON SITE PER THE REQUIREMENTS OF CEC ART. 690.64(B). ALL BACKFEED BREAKERS SHALL BE IDENTIFIED AS SUCH AND SHALL BE SECURED IN PLACE BY AN ADDITIONAL FASTENER PER THE REQUIREMENTS OF CEC 408.36.
22. CEC ART. 690.53. A PLACARD, MINIMUM 3-INCHES X 6-INCHES, UV RESISTANT AND INCLUDING RED LETTERS, WHITE BACKGROUND SHALL BE PROVIDED BESIDE THE DC DISCONNECT WITH THE FOLLOWING TEXT: "CAUTION SOLAR CIRCUIT DISCONNECT".
23. CIRCUIT BREAKERS THAT ARE MARKED "LINE" AND "LOAD" ARE NOT PERMITTED TO BE BACK-FED (690.10(E)).
24. PV CONTRACTOR SHALL PROVIDE A PERMANENT PLAQUE OR DIRECTORY DENOTING ALL ELECTRIC POWER SOURCES ON OR IN THE PREMISES SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION AND AT LOCATIONS OF ALL ELECTRIC POWER PRODUCTION SOURCES CAPABLE OF BEING INTERCONNECTED.
25. ALL PV SYSTEM CONDUITS SHALL BE PERMANENTLY LABELED WITH FADE RESISTANT MATERIAL AS FOLLOWS: "CAUTION: SOLAR PV WIRING MAY REMAIN ENERGIZED AFTER DISCONNECTION DURING DAYLIGHT HOURS". INSTALL LABELS EVERY 20-FEET AND ONE (1) AT EYE LEVEL FOR VERTICAL CONDUIT.
26. ALL CONDUCTORS AND TERMINATIONS SHALL BE RATED FOR 75°C MINIMUM. EXPOSED CONDUCTORS SHALL BE SUNLIGHT RESISTANT.
27. ALL NEW WIRING FROM COMBINER BOXES TO SE SHALL BE COPPER 600-VOLT INSULATION TYPE "THWN-2" - U.O.N.
28. ALL NEW WIRING FROM ARRAY TO COMBINER BOXES SHALL BE COPPER USE-2. EXPOSED CONDUCTORS SHALL BE SUNLIGHT RESISTANT.
29. MOUNTING HEIGHTS OF ALL CONDUCTORS IS A MINIMUM 2-INCHES OFF THE ROOF.
30. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED BELOW ROOF AND WITHIN BUILDING WHEREVER POSSIBLE.
31. ALL JUNCTION BOXES OR COMBINERS SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. POSITION THE ROOF PENETRATION JUNCTION BOX OVER THE PENETRATION SUCH THAT IT DIVERTS RAINWATER AWAY FROM FALLING ON THE TOP OF THE PENETRATION. CONDUIT PENETRATION INTO ALL JUNCTION BOXES SHALL BE ON THE SIDES OR BOTTOM, AND NOT THE TOP SURFACE.
32. CONNECTIONS TO NEMA-3/3R (OR HIGHER) CONDUIT BODIES, WIREWAYS, AND JUNCTION BOXES SHALL BE MADE WITH UL LISTED WEATHERTIGHT CONNECTORS TO MAINTAIN THE ENCLOSURE'S NEMA RATINGS.
33. WIRE GLAND OR CABLE GRIP SHALL BE UL LISTED FOR NUMBER AND SIZE OF CONDUCTORS TO PROVIDE STRAIN RELIEF FOR ALL CONDUCTORS PENETRATING A CONDUIT BODY.
34. EXPOSED CONDUCTORS ENTERING CONDUIT BODIES SHALL BE PROVIDED WITH DRIP LOOPS THAT DIVERT WATER AWAY FROM WIRE GLANDS.
35. SECURE ALL MODULE WIRING WITHIN 12" OF ALL CONNECTORS, AND EVERY 48" THEREAFTER.
36. AT BUILDING EXPANSION JOINTS, PROVIDE CONDUIT EXPANSION COUPLINGS WITH GROUND FITTINGS.
37. ROOFTOP CONDUITS AND JUNCTION/TERMINAL/PULLBOXES SHALL BE INSTALLED ON DURA-BLOCKS OR ROOF CURBS WITH CONDUIT HEIGHT AT A MINIMUM OF 4" ABOVE THE ROOF SURFACE.
38. WIRE TERMINATION HARDWARE SHALL BE TORQUED TO MANUFACTURER'S SPECIFICATION AND MARKED TO INDICATE FINAL SETTING. INSTALLING CONTRACTOR SHALL REVIEW AND ADHERE TO ALL MANUFACTURER'S INSTRUCTIONS FOR TORQUE SETTINGS OF HARDWARE FOR MODULE AND RACKING ASSEMBLY AS WELL AS CONDUCTOR TERMINATIONS.
39. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.
40. EQUIPMENT GROUNDING CONDUCTORS (EGC) CONTINUITY IN THE ARRAY RACKING IS PROVIDED BY BOLTED MECHANICAL CONNECTIONS WITHIN RACKING FRAMEWORK (CEC 250.118(1)). THE EGC SHALL BE BONDED TO RACKING PER MANUFACTURER PROVIDED SPECIFICATIONS.
41. THE DC GROUNDING ELECTRODE CONDUCTOR (GEC) (WHEN REQUIRED) CAN BE COMBINED WITH THE AC-EGC. THE COMBINED CONDUCTOR SHALL BE SIZED AS THE LARGER OF THE TWO CONDUCTORS AND BE CONTINUOUS, OR USE EXOTHERMIC WELDING OR LISTED, IRREVERSIBLE, COMPRESSION/CRIMP CONNECTORS (CEC 250.64).
42. ALL DC CONDUITS AND AC AT 480VAC OR HIGHER, ENTERING A JUNCTION BOX OR OTHER CONDUIT BODY WHERE THE OPENING CONSISTS OF CONCENTRIC RINGS SHALL HAVE A BONDING BUSHING AND JUMPER FROM THE CONDUIT TO THE DC GROUNDING CONDUCTOR. EXCEPTIONS AS ALLOWED BY THE CEC 205.97.
43. PROVIDE A SEPARATE GREEN INSULATED EGC FOR EACH SINGLE OR THREE-PHASE PHASE-FEEDER AND EACH BRANCH CIRCUIT WITH A THREE-PHASE PROTECTIVE DEVICE. INSTALL THE REQUIRED GROUNDING CONDUCTOR IN THE COMMON CONDUIT WITH THE RELATED PHASE AND NEUTRAL CONDUCTORS.
44. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.
45. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
46. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF THE ELECTRICAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES, AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.
47. THE DRAWINGS INDICATE, IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF THE COMPONENTS OF PHOTOVOLTAIC WORK. DETERMINE EXACT PV EQUIPMENT, CONDUIT AND WIRING ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO

MARKINGS, LABELS, AND WARNING SIGNS

REFER TO PV003 ADDITIONAL REQUIREMENTS

B. MAIN SERVICE DISCONNECT:

1. RESIDENTIAL BUILDINGS - THE MARKING SHALL BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED UNTIL THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.
2. COMMERCIAL BUILDINGS - THE MARKING SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECT CLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED.
3. MARKINGS: VERBIAGE, FORMAT, AND TYPE OF MATERIAL.
 - a. VERBIAGE: CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED
 - b. FORMAT:
 - (1) WHITE LETTERING ON A RED BACKGROUND.
 - (2) MINIMUM 3/8-INCH LETTER HEIGHT.
 - (3) ALL LETTERS SHALL BE CAPITALIZED.
 - (4) ARIAL OR SIMILAR FONT, NON-BOLD.
 - c. MATERIAL:
 - (1) REFLECTIVE, WEATHER RESISTANT MATERIAL, SUITABLE FOR THE ENVIRONMENT (USE UL - 969 AS STANDARD FOR WEATHER RATING); DURABLE ADHESIVE MATERIALS MEET THIS REQUIREMENT.

C. MARKING REQUIREMENTS ON DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, DC COMBINERS, AND JUNCTION BOXES:

1. MARKINGS: PLACEMENT, VERBIAGE, FORMAT, AND TYPE OF MATERIAL.

- a. PLACEMENT: MARKINGS SHALL BE PLACED EVERY 10 FEET ON ALL INTERIOR AND EXTERIOR DC CONDUITS, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, AT TURNS, ABOVE AND/OR BELOW PENETRATIONS, ALL DC COMBINERS, AND JUNCTION BOXES.
- b. VERBIAGE: CAUTION: SOLAR CIRCUIT
- d. INVERTERS - ARE NOT REQUIRED TO HAVE CAUTION MARKINGS. REFER TO PV003 FOR REQUIREMENTS.

ACCESS PATHWAYS AND SMOKE VENTILATION

A. SOLAR PHOTOVOLTAIC SYSTEMS FOR ONE- AND TWO-FAMILY DWELLING UNITS: ALL PLANS ARE REQUIRED TO BE REVIEWED BY THE FIRE DEPARTMENT.

1. ACCESS:

- a. BUILDINGS WITH A HIP ROOF LAYOUT
 - (1) PANELS SHALL BE LOCATED IN A MANNER THAT PROVIDES ONE 3-FOOT-WIDE CLEAR ACCESS PATHWAY FROM THE EAVE TO THE RIDGE ON EACH ROOF SLOPE WHERE PANELS ARE LOCATED.
 - (2) THE ACCESS PATHWAY SHALL BE LOCATED AT A STRUCTURALLY STRONG LOCATION ON THE BUILDING (I.E. BEARING WALL).
- b. BUILDINGS WITH A SINGLE RIDGE:
 - (1) PANELS SHALL BE LOCATED IN A MANNER THAT PROVIDES TWO 3-FOOT-WIDE ACCESS PATHWAYS FROM THE EAVE TO NO DEAD ENDS GREATER THAN 25 FEET IN LENGTH.
 - (2) ACCESS PATHWAY CLEAR WIDTH SHALL NOT INCLUDE ANY EAVES OVERHANG.
- c. DEAD ENDS:
 - (1) WHERE THERE ARE TWO OR MORE ACCESS PATHWAYS THE CLEAR PATHWAYS SHALL BE ARRANGED SO THERE ARE NO DEAD ENDS GREATER THAN 25 FEET IN LENGTH.
 - (2) IF ANY ACCESS PATHWAY LEADING TO A DEAD END IS GREATER THAN 25 FEET IN DISTANCE IT SHALL CONTINUE ON TO THE NEXT ACCESS PATHWAY.
 - (3) AT NO TIME SHALL ANY ACCESS PATHWAY CAUSE A PERSON'S TRAVEL DISTANCE TO EXCEED 150 FEET BEFORE ARRIVING AT ANOTHER REQUIRED ACCESS PATHWAY.

2. VENTILATION:

- a. AN UNINTERRUPTED SECTION OF PHOTOVOLTAIC PANELS (ARRAY) SHALL NOT EXCEED 150 FEET BY 150 FEET IN DIMENSION IN EITHER AXIS.
- b. PANELS SHALL BE LOCATED NO HIGHER THAN 3 FEET BELOW THE RIDGE.

EXCEPTION: THE PANELS MAY BE LOCATED 2 FEET BELOW THE RIDGE IF THE DEPARTMENT HAS DETERMINED THAT AN APPROVED PRODUCT OR METHOD WILL PROVIDE AN EQUAL OR GREATER OPPORTUNITY FOR VENTILATION.

B. COMMERCIAL BUILDINGS AND RESIDENTIAL HOUSING COMPRISING OF THREE OR MORE UNITS:

EXCEPTION: THE DEPARTMENT MAY DETERMINE THAT THE ROOF ATTACHMENT IS SIMILAR TO RESIDENTIAL (SUCH AS IN THE CASE OF TOWNHOUSES, CONDOMINIUMS OR SINGLE FAMILY CONFIGURED BUILDINGS), AND APPLY THE ONE- AND TWO-FAMILY RESIDENTIAL UNIT ACCESS AND VENTILATION REQUIREMENTS.

1. ACCESS:

- a. A MINIMUM 6-FOOT-WIDE CLEAR PERIMETER IS REQUIRED AROUND THE EDGES OF THE ROOF.

EXCEPTION: IF EITHER AXIS OF THE BUILDING IS 250 FEET OR LESS, THERE SHALL BE A MINIMUM 4-FOET WIDE CLEAR PERIMETER AROUND THE EDGES OF THE ROOF.

2. PATHWAYS: SHALL BE ESTABLISHED IN THE DESIGN OF THE SOLAR INSTALLATION AND MEET THE FOLLOWING REQUIREMENTS:

- a. LOCATED OVER STRUCTURALLY SUPPORTED MEMBERS.
- b. CENTER LINE AXIS PATHWAYS SHALL BE PROVIDED IN BOTH AXIS OF THE ROOF. CENTERLINE AXIS PATHWAYS SHALL RUN ON STRUCTURALLY SUPPORTED MEMBERS OR OVER THE NEXT CLOSEST STRUCTURALLY SUPPORTED MEMBER NEAREST TO THE CENTERLINES OF THE ROOF.
- c. A MINIMUM OF 4-FEET CLEAR STRAIGHT-LINE PATHWAY SHALL BE PROVIDED FROM THE ACCESS PATH TO SKYLIGHTS AND/OR VENTILATION HATCHES.
- d. A MINIMUM OF 4-FEET CLEAR STRAIGHT-LINE PATHWAY SHALL BE PROVIDED FROM THE ACCESS TO ROOF STANDPIPES.
- e. NOT LESS THAN A 4-FEET CLEAR AROUND ROOF ACCESS HATCHES WITH A MINIMUM OF ONE PATHWAY THAT IS STRAIGHT AND NOT LESS THAN 4-FEET CLEAR TO THE PARAPET OR ROOF EDGE.

3. VENTILATION:

- a. ARRAYS SHALL BE NO GREATER THAN 150 FEET BY 150 FEET IN DIMENSION IN EITHER AXIS.
- b. VENTILATION OPTIONS BETWEEN ARRAY SECTIONS SHALL BE ONE OF THE FOLLOWING:
 - (1) AN ACCESS PATHWAY 8 FEET OR GREATER IN WIDTH.
 - (2) THE ACCESS PATHWAYS SHALL BE 4 FEET OR GREATER IN WIDTH AND BORDERING ON THE EXISTING ROOF SKYLIGHTS OR VENTILATION HATCHES.
 - (3) THE ACCESS PATHWAYS SHALL BE 4 FEET OR GREATER IN WIDTH WITH BORDERING 4 FEET BY 8 FEET 'VENTING CUTOUTS' EVERY 20 FEET ON ALTERNATING SIDES OF THE PATHWAY.

DIRECT CURRENT (DC) CONDUCTOR LOCATIONS

A. CONDUIT, WIRING SYSTEMS, AND RACEWAYS:

1. LOCATED AS CLOSE AS POSSIBLE TO THE RIDGE, HIP OR VALLEY AND FROM THE HIP OR VALLEY AS DIRECTLY AS POSSIBLE TO AN OUTSIDE WALL.

B. CONDUIT RUNS BETWEEN SUB ARRAYS AND DC COMBINER BOXES SHALL:

1. USE DESIGN GUIDELINES THAT MINIMIZES THE TOTAL AMOUNT OF CONDUIT USED ON THE ROOF BY TAKING THE SHORTEST PATH FROM THE ARRAY TO THE DC COMBINER BOX.
2. THE DC COMBINER BOXES ARE TO BE LOCATED SUCH THAT CONDUIT RUNS ARE MINIMIZED IN THE PATHWAYS BETWEEN ARRAYS.

C. DC WIRING:

1. DC WIRING SHALL BE RUN IN METALLIC CONDUIT OR RACEWAYS WHEN LOCATED WITHIN ENCLOSED SPACES IN A BUILDING.
2. WHEN POSSIBLE, DC WIRING SHALL RUN ALONG THE BOTTOM OF LOADBEARING MEMBERS.

GROUND MOUNTED

A. SETBACK REQUIREMENTS:

1. DOES NOT APPLY TO GROUND MOUNTED FREESTANDING PHOTOVOLTAIC ARRAYS.
2. A 10 FEET MINIMUM CLEARANCE IS REQUIRED AROUND GROUND-MOUNTED PHOTOVOLTAIC SYSTEMS.
3. SHALL NOT OBSTRUCT FIRE DEPARTMENT ACCESS.

OVERHEAD ARRAYS ON ROOFTOPS (E.G., TRELLIS SYSTEMS)

A. MINIMUM REQUIREMENTS:

1. OVERHEAD ARRAYS SHALL COMPLY WITH THE SAME MARKING, LABELING, AND WARNING SIGNS AS REQUIRED OF ROOF-MOUNTED SYSTEMS.
2. THERE SHALL BE AN UNOBSTRUCTED CLEARANCE OF 7-FEET OR MORE BETWEEN THE ROOF DECK SURFACE AND THE UNDER-SIDE OF THE OVERHEAD ARRAY.
3. THE REGULATIONS IN 57.12.03, AND 57.138.04 OF THE LOS ANGELES FIRE CODE SHALL BE COMPLIED WITH.
4. AN UNINTERRUPTED SECTION OF SOLAR PHOTOVOLTAIC PANELS SHALL NOT EXCEED 150 FEET BY 150 FEET IN DIMENSION IN EITHER AXIS.
5. THE OVERHEAD CLEAR WIDTH BETWEEN ARRAYS OR SUB-ARRAYS SHALL BE 4-FEET OR GREATER EXTENDING FROM THE EDGE OF THE ARRAY(S) TO THE ROOF DECK SURFACE, THEREBY, MAINTAINING AN UNOBSTRUCTED ACCESS PATHWAY, AND PROVIDING FOR EMERGENCY VENTILATION PROCEDURES.
6. THE USE OF THE AREA BELOW ARRAYS IS PROHIBITED.

(ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS) ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS. VERIFY EXACT LOCATIONS AND HEIGHTS OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.	
	SOLAR MODULE. MODULE IDENTIFIER S1M1. S1 = STRING 1, M1 = MODULE 1.
	FUSED SAFETY SWITCH (DISCONNECT). HORSE POWER RATED. MOUNT ON WALL +45", OR ON EQUIPMENT +36" PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.
	CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4" CONDUIT MINIMUM.
	CONDUIT, INSTALLED EXPOSED.
	HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH SEPERATE NEUTRALS.
	UNDERGROUND CONDUIT STUBOUT, STUB 5'-0" FROM BUILDING OR WALKWAY, CAP, MARK AND RECORD.
	CONNECTED TO SOLID GROUND REFERENCE POINT
	PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL DESIGNATION "A", SEE DRAWING E-1 FOR PANEL SCHEDULE.
	PLAN NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.
ABBREVIATIONS	
A	AMPERE
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CURRENT INTERRUPTER
AZIM	AZIMUTH
COMP	COMPOSITION
DC	DIRECT CURRENT
EXT	EXTERIOR
FRM	FRAMING
INT	INTERIOR
LBW	LOAD BEARING WALL
MAG	MAGNETIC
NTS	NOT TO SCALE
OC	ON CENTER
PSF	POUNDS PER SQUARE FOOT
PV	PHOTOVOLTAIC
TL	TRANSFORMERLESS
TYP	TYPICAL
V	VOLTS
W	WATTS
PERMIT/PLANNING GENERAL NOTES	
1. THIS PV SYSTEM INSTALLATION IS SUBJECT TO INSPECTION BY THE AUTHORITY HAVING JURISDICTION 2. THIS PROJECT SHALL CONFORM TO THE FOLLOWING CODE VERSIONS 2.1. 2025 CALIFORNIA BUILDING CODE 2.2. 2025 CALIFORNIA ELECTRICAL CODE 2.3. 2025 CALIFORNIA FIRE CODE 2.4. 2025 CALIFORNIA ENERGY CODE 2.5. 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE 3. ROOFTOP MOUNTED PV SYSTEM MEETS FIRE CLASSIFICATION PER CBC 1505.9 CLASS "A". PV SYSTEM AND ASSOCIATED RACKING SYSTEM ARE LISTED AND IDENTIFIED WITH FIRE CLASSIFICATION IN ACCORDANCE WITH UL 1703 4. SYSTEM UTILIZES SOLAREEDGE INVERTERS AND OPTIMIZERS WHICH MEET 690.12 RAPID SHUTDOWN REQUIREMENTS. 5. CEC - 110.2 APPROVAL: ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION 6. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.	
BUILDING APPLICATION	
SCOPE OF WORK	
PROVIDE UTILITY INTERACTIVE ROOF MOUNTED PHOTOVOLTAIC SYSTEM CONSISTING OF PV MODULES, MOUNTING RAILS AND HARDWARE, INVERTERS, UTILITY GRADE METERS ASSEMBLY, DISCONNECT GROUNDING, AC SERVICE CONNECTION CONDUIT, WIRING (AC AND DC) FOR COMPLETE AND OPERABLE SYSTEM.	
- SYSTEM SIZE: 6.8 kW - MODULES: (16) PHONO SOLAR #PS550M6-24/TH - INVERTERS: (1) SOLAR EDGE #SE10000H-US - RACKING: UNIRAC SOLARMOUNT	
- RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER CEC690.71(B)(1) - ADDITIONAL DISCONNECTING MEANS SHALL BE INSTALLED WHERE ENERGY STORAGE DEVICE INPUT AND OUTPUT TERMINALS ARE MORE THAN 5FT FROM CONNECTED EQUIPMENT, OR WHERE THE CIRCUITS FROM THESE TERMINALS PASS THROUGH A WALL OR PARTITION PER CEC 690.71(H). - LISTED, COMBINATION TYPE AFCI SHALL BE INSTALLED WHERE BACKED UP CIRCUIT WIRING IS EXTENDED MORE THAN 6FT AND DOES NOT INCLUDE ANY ADDITIONAL OUTLETS OR DEVICES PER CEC 201.12(B)	
Sheet List Table	
Sheet Number	Sheet Title
PV0.1	PV GENERAL NOTES, SYMBOLS & ABBREVIATIONS
PV0.2	PV SINGLE LINE DIAGRAM
PV0.3	PV LABELS AND PLACARDS
PV1.0	PV FLOOR PLAN
PV2.0	PV ROOF PLAN
PV3.0	PV CUTSHEETS
PV3.1	PV CUTSHEETS

PV0.1

NOTE:

ALL WORK SHOWN LIGHT AND DASHED IS INSTALLED BY THE ELECTRICAL CONTRACTOR UNDER THE ELECTRICAL PERMIT. ---
ALL WORK SHOWN SOLID IS FOR THE PV SYSTEM.

PV SYSTEM SUMMARY

TOTAL # OF PANELS 16
WATTAGE OF PANELS 850
TOTAL DC RATING OF SYSTEM 8.8 KW
TOTAL # OF INVERTERS 1
INVERTER EFFICIENCY 97.5%

SINGLE LINE DIAGRAM NOTES

- 1 ROOF MOUNTED PHOTOVOLTAIC MODULE, PHONO SOLAR #PS550M6-24/TH, MONOCRYSTALLINE/N-TYPE, 144 CELLS.
- 2 SOLAR EDGE POWER OPTIMIZER #S650B1x1 DISTRIBUTION MOUNTED TO RACKING SYSTEM, BONDED TO MODULE AND RACKING SYSTEM WITH 1#6 AWG SOLID CU GROUND CONDUCTOR.
- 3 PHOTOVOLTAIC MODULE LEAD CONNECTION TO POWER OPTIMIZER (+/-)
- 4 "PV" AC DISCONNECT SWITCH 30A 30AF WITH VIEWABLE WINDOW. PROVIDE REJECTION-TYPE FUSE HOLDERS. NEMA 3R.
- 5 3/4" - 1#6 G TO BUILDING ELECTRICAL SERVICE GROUND.
- 6 CIRCUIT BREAKER SHALL BE RATED FOR BACK-FED APPLICATION.
- 7 PROVIDED UNDER ELECTRICAL PERMIT.

SINGLE LINE DIAGRAM GENERAL NOTES:

1. ALL SWITCHGEAR, PANELBOARDS, ETC. ARE TO BE UL LISTED FOR THEIR LOCATION AND INTENDED USE. ALL EQUIPMENT SHALL BE BRACED FOR FAULT CURRENT RATING ASSOCIATED WITH THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM.
2. ALL EQUIPMENT, FEEDERS, CIRCUITS, SERVICES, ETC. SHALL BE GROUNDED PER CEC ARTICLE 250.
3. ALL FEEDERS ARE BASED ON COPPER CONDUCTORS AND SHALL CARRY A SEPARATE GROUNDING CONDUCTORS.
4. ALL SWITCHBOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT. MAIN SWITCHBOARDS SHALL CONTAIN CUSTOMER METERING FOR VOLTAGE, AMPACITY, DEMAND AND PEAK DEMAND PER PHASE.
5. ALL MAIN SWITCHBOARDS SHALL HAVE FACTORY INSTALLED TRANSIENT VOLTAGE SURGE PROTECTION. COORDINATE WITH LOCAL UTILITY COMPANY.
6. ALL DISTRIBUTION BOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT.
7. ALL DISTRIBUTION PANELBOARDS SHALL BE OF OMV/CBB CONSTRUCTION WITH COPPER BUSSING WITH A DEPTH OF LESS THAN 14" AND ALL SECTIONS SHALL ALIGN IN FRONT.
8. ALL PANELBOARDS SHALL BE OF PANELBOARD CONSTRUCTION WITH COPPER BUSSING, BOLT-IN BREAKER, FACTORY INSTALLED MAINS, DEAD FRONT COVER WITH LOCKABLE DOOR, AND PANEL DIRECTORY PER PANEL SCHEDULE WHICH IS PART OF THESE CONSTRUCTION DOCUMENTS.
9. ALL PANELBOARDS INSTALLED IN GARAGES OR AREAS COMPLYING WITH ARTICLES 500, 511 AND/OR 514 SHALL BE INSTALLED 18" ABOVE FLOOR LINE TO BOTTOM OF PANEL AND SHALL BE IN MULTIPLE PANELS AS REQUIRED WITH TOP MOST BREAKER NO HIGHER THAN 6'-7" A.F.F. PER ARTICLE 380.
10. ALL ELECTRICAL EQUIPMENT (i.e. SWITCHBOARDS, PANELBOARDS, DISCONNECTS, STARTERS, ETC.) SHALL HAVE A NAMEPLATE. THE NAMEPLATE SHALL BE PHENOLIC WITH ENGRAVED WHITE LETTERS AND SHALL PROVIDE THE FOLLOWING INFORMATION:
LINE 1- "EQUIPMENT NAME"
LINE 2- "FED FROM ..."
LINE 3- "VOLTAGE, AMPACITY, PHASE"
LINE 4- "DATE INSTALLED"

NAMEPLATES SHALL BE SIZED BASED ON THE FOLLOWING:

SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMER: "LINE 1 = 1/2" LETTERS, LINES 2, 3 & 4 = 1/4" LETTERS

PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC. "LINE 1 = 3/8" LETTERS, LINE 2, 3 & 4 = 1/4" LETTERS

NAMEPLATE COLOR SHALL BE AS FOLLOWING:

BLACK = NORMAL POWER
RED = LIFE SAFETY/ EMERGENCY POWER
BLUE = STANDBY POWER
GREEN = INVERTER POWER

11. ALL NAMEPLATES SHALL BE FASTENED WITH MINIMUM OF TWO (2) SCREWS. SELF ADHESIVE NAMEPLATES ARE ALLOWED.
12. ALL CONDUCTORS HAVE BEEN REVIEWED FOR VOLTAGE DROP. CONTRACTOR IS TO NOTIFY ENGINEER IF FIELD CONDITIONS SUBSTANTIALLY INCREASE CONDUCTOR LENGTH.
13. ALL FLOOR-STANDING EQUIPMENT LOCATED AT GRADE OR BELOW SHALL HAVE A MINIMUM 4" HIGH HOUSEKEEPING PAD INSTALLED UNDER THEM. PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT IN ALL DIRECTIONS. THE INSTALLATION OF A PAD SHALL ALSO APPLY TO EQUIPMENT THAT MIGHT BE SUSCEPTIBLE TO WATER DAMAGE THAT IS LOCATED IN AREAS OTHER THAN AT GRADE.
14. PROVIDE PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDER VOLTAGE FOR ALL MOTOR-RELATED CIRCUITS.
15. PROVIDE ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING FOR ALL EQUIPMENT, CONDUCTORS, GROUND FAULT, ETC.
16. ALL PANELBOARDS INSTALLED IN GARAGES OR AREAS COMPLYING WITH ARTICLE 500, 511, AND/OR 514 SHALL BE INSTALLED 18" ABOVE FLOOR LINE TO BOTTOM OF PANEL AND SHALL BE IN MULTIPLE PANELS AS REQUIRED WITH TOP MOST BREAKER NO HIGHER THAN 6'-7" A.F.F. PER ARTICLE 380.

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ANTHONY MUNOZ
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(PV PROJECT)

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REVISIONS DATE

2ND PC RESUBMITTAL 05/11/26



JOB NO.: 2024.01
DRAWN BY: RCA+A
DATE: 02 - 26 - 2025

TITLE: PV SINGLE LINE DIAGRAM

SHEET: PV0.2

PV SINGLE LINE DIAGRAM

SCALE: N.T.S.

1

EXISTING RECYCLED WATER IRRIGATION LEGEND	
SYMBOL	MANUFACTURE / MODEL NO. / DESCRIPTION
	P.O.C. - POINT OF CONNECTION TO EXISTING 4" PVC RECYCLED WATER IRRIGATION MAINLINE. VERIFY SIZE, LOCATION, AND STATIC WATER PRESSURE IN FIELD PRIOR TO ANY EXCAVATION.
	(EXISTING) RECYCLED WATER IRRIGATION METER. VERIFY SIZE, LOCATION, AND STATIC WATER PRESSURE IN FIELD.
	(EXISTING) BOOSTER PUMP, PROTECT IN PLACE. VERIFY AND TEST FOR PROPER OPERATION, REPAIR OR REPLACE IF DAMAGED.
	(EXISTING) CALSENSE CS3000 CONTROLLER WITH 2-WIRE OPTION, PROTECT IN PLACE. VERIFY AND TEST FOR PROPER OPERATION. REPAIR OR REPLACE IF DAMAGED. VERIFY QUANTITY OF AVAILABLE OPEN STATIONS. INSTALL NEW EXPANSION MODULES OR REPLACE CONTROLLER IF INADEQUATE NUMBER OF OPEN STATION EXIST.
	(EXISTING) NORMALLY CLOSED MASTER VALVE, PROTECT IN PLACE. VERIFY AND TEST FOR PROPER OPERATION. REPAIR OR REPLACE IF DAMAGED.
	(EXISTING) FLOW SENSOR, PROTECT IN PLACE. VERIFY AND TEST FOR PROPER OPERATION, REPAIR OR REPLACE IF DAMAGED.
	CONNECTION OF NEW MAINLINE AND CONTROL WIRES TO EXISTING IRRIGATION SYSTEM. VERIFY MAINLINE SIZE, QUANTITY OF WIRES REQUIRED, INCLUDING SPARE WIRES, AND EXACT CONNECTION POINT LOCATIONS IN FIELD.
	CUT AND CAP EXISTING MAINLINE. VERIFY EXACT LOCATION IN FIELD.
	(EXISTING) IRRIGATION MAINLINE AND CONTROL WIRES SHOWN FOR REFERENCE ONLY. PROTECT IN PLACE. REPAIR ANY DAMAGE DUE TO CONSTRUCTION. VERIFY SIZE, TYPE, AND EXACT LOCATION IN FIELD. IF CONTRACTOR IS NOT ABLE TO LOCATE EXISTING MAINLINE CONTRACTOR SHALL PROVIDE AND INSTALL NEW MAINLINE AND MAKE ALL NECESSARY CONNECTIONS FOR PROPER OPERATION OF NEW AND EXISTING IRRIGATION SYSTEM.
	(EXISTING) PVC PIPE AS LATERAL LINES SHOWN FOR REFERENCE ONLY. VERIFY EXACT LOCATION IN FIELD. PROTECT IN PLACE. REPAIR ANY DAMAGE DUE TO CONSTRUCTION.
	IRRIGATION TIE-IN CONNECTION OF NEW LATERAL LINE TO EXISTING SYSTEM LATERAL LINE. VERIFY SIZE, LOCATION AND CONNECTION POINTS IN FIELD.
	(EXISTING) IRRIGATION TO REMAIN, PROTECT IN PLACE. VERIFY AND TEST FOR PROPER OPERATION PRIOR TO CONSTRUCTION. REPAIR OR REPLACE IF DAMAGED. PROVIDE 100% COVERAGE WITH NO PONDING, RUNOFF OR OVER SPRAY. THE OWNER'S REPRESENTATIVE MUST REVIEW ANY REQUIRED MODIFICATIONS TO THESE AREAS PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE OF THESE CONDITIONS OR ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
	(EXISTING) MAINLINE TO BE REMOVED. VERIFY EXACT LOCATION IN FIELD WITH AUTHORIZED REPRESENTATIVE ANY MAINLINE TO BE REMOVED PRIOR TO CONSTRUCTION.

POTABLE WATER WATER LEGEND	
SYMBOL	MANUFACTURE / MODEL NO. / DESCRIPTION
	AS APPROVED - FIRE SERVICE DOUBLE DETECTOR CHECK, PER CIVIL ENGINEER'S SHEETS.
	AS APPROVED - FIRE LINE, PER CIVIL ENGINEER'S SHEETS.
	AS APPROVED - POTABLE WATERLINE, PER CIVIL ENGINEER'S SHEETS.
	AS APPROVED - POTABLE WATER METER, PER CIVIL ENGINEER'S SHEETS.
	AS APPROVED - POTABLE WATER R/P BACKFLOW DEVICE, PER CIVIL ENGINEER'S SHEETS.
	AS APPROVED - FIRE HYDRANT, PER CIVIL ENGINEER'S SHEETS

ESTABLISHED LANDSCAPE IRRIGATION SCHEDULE

Project Name: Anthony Munoz Gymnasium

Meter #1Controller Letter "A"

Evapotranspiration Rates:

Eto Historical: 47.50

Eto Per Day0.060.140.200.12

Eto Per Season1.84.36.23.5

Run Times (Minutes per Day) = 60 x (Eto x PF) / (PR x IE) x 7 / RD / C

Eto = Daily Evapotranspiration Rate

IE = Irrigation Efficiency

PR = Precipitation Rate (Inches per Hour)

RD = Run days (Program run days per week)

C = Cycles per Day

PF = Plant Factor (Kc)

60 = Conversion to minutes

7 = Days in a week

Cycles Per Day:1

Days Per Week:2 to 5

Irrigation Efficiency (%):

Rotors:0.75

Spray Heads:0.71

Bubbler Heads:0.77

Drip Line:0.81

Drip Emitter:0.81

Stream Rotary:0.75

Macro Spray:0.75

Precipitation Rate (in/hr)

Rotors:0.45

Spray Heads:1.60

Bubbler Heads:3.60

Drip Line:0.64

Drip Emitter:0.20

Stream Rotary:0.62

Macro Spray:0.61

Irrigation Days Per Week:							3	4	4	5	5	6	6	6	5	5	4	4	3
Valve Quantity	Water Use Type	Planting	Irrigation Type	Kc	PR	IE	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Eto %
10	Low	Shrub	Drip Line	0.20	0.64	0.81	3	3	4	5	5	5	6	6	5	5	3	3	Mn. Per Day
2	High	Turf	Spray	0.70	1.60	0.71	5	5	7	8	8	8	9	9	8	7	5	5	Mn. Per Day
4	High	Turf	Rotor HALF	0.70	0.53	0.75	14	13	20	22	24	24	26	25	23	21	14	14	Mn. Per Day
3	High	Turf	Rotor FULL	0.70	0.27	0.75	27	26	40	44	47	47	51	50	45	41	28	27	Mn. Per Day
2	Low	Tree	Bubbler	0.20	3.60	0.77	1	1	1	1	1	1	1	1	1	1	1	1	Mn. Per Day
1	Mod	Tree	Bubbler	0.50	3.60	0.77	1	1	1	2	2	2	3	3	2	2	1	1	Mn. Per Day
1	Low	Palm	Bubbler	0.20	3.60	0.77	1	1	1	1	1	1	1	1	1	1	1	1	Mn. Per Day
Total Run Time / Minutes Per Day							176	172	264	289	310	310	336	331	301	271	184	176	Mn. Per Day
Total Valves							23												Hours Per Day
Total Run Time / Hours Per Day							2.9	2.9	4.4	4.8	5.2	5.2	5.6	5.5	5.0	4.5	3.1	2.9	Hours Per Day

CONTROLLER SCHEDULING NOTE:
THESE SUGGESTED RUN TIMES ARE FOR REFERENCE ONLY. ACTUAL RUN TIMES MAY DIFFER DUE TO VARYING SITE CONDITIONS. CONTRACTOR SHALL ADJUST RUN TIMES AS REQUIRED TO PROVIDE APPROPRIATE WATER FOR EACH VALVE CIRCUIT. MULTIPLE CYCLES MAY BE REQUIRED TO MINIMIZE PONDING AND RUNOFF ONTO NON-IRRIGATED AREAS.

Water Efficient Landscape Worksheet									
Reference Evapotranspiration		(ET _a)	47.5	Project Type		Non-Residential	0.45		
Hydrozone # / Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^d		
Regular Landscape Areas									
1- Shrub Drip (LOW)	0.2	Drip	0.81	0.25	25861	6385	188051		
2- Tree Bubbler (LOW)	0.4	Bubbler	0.77	0.52	76	39	1163		
3-Tree Bubbler (MOD)	0.6	Bubbler	0.77	0.78	28	22	643		
Totals					25965	6447	189856		
Special Landscape Areas									
SLA-1 Turf Areas				1	34242	34242	1008427		
Totals					34242	34242	1008427		
ETWU Total Gallons ^e						1,198,283			
Maximum Allowed Water Allowance (MAWA) Gallons ^e						1,352,528			
*Hydrozone# / Planting Description e.g.		*Irrigation Method		*Irrigation Efficiency		*ETWU (Annual Gallons Required) =			
1) Drip Low water use planting		1) Overhead Spray		1) 0.73 for Spray Head		Eto x 0.62 x ETAF x Area			
2) Spray Moderate water use planting		2) Drip		2) 0.81 for Drip		Where 0.62 is a conversion factor to change acre-inches per acre per year to gallons per square foot per year, LA is the total regular landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential areas and 0.45 for non-residential areas.			
3) Tree Bubbler Moderate water use		3) Rotary		3) 0.73 Rotary					
		4) Rotator		4) 0.73 Rotator					
		5) Bubbler		5) 0.77 Bubbler					
*MAWA (Annual Gallons Allowed) = (Eto) (0.62) (ETAF x LA) + (IE-ETAF) x SLA									
Where 0.62 is a conversion factor to change acre-inches per acre per year to gallons per square foot per year, LA is the total regular landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is 0.55 for residential areas and 0.45 for non-residential areas.									
ETAF Calculations									
Regular Landscape Areas									
Total ETAF x Area	6447								
Total Area	25965								
Average ETAF	0.25								
All Landscape Areas									
Total ETAF x Area	40689 (B+D)								
Total Area	60207 (A+C)								
Average ETAF	0.68 (B+D) ÷ (A+C)								
Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.									

FOR REFERENCE ONLY:
WATER BUDGET CALCULATIONS SHOWN FOR REVISED LANDSCAPE AREA ONLY. (CALCULATIONS SHOW THIS PROJECT TO BE IN COMPLIANCE WITH STATE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE "MWELO")

RECYCLED WATER IRRIGATION EQUIPMENT LEGEND			
SYMBOL	MANUFACTURE / MODEL NO. / DESCRIPTION	DETAIL	SHEET
	NIBCO - T-113, BRONZE GATE VALVE WITH CROSS TYPE OPERATING HANDLE. SIZE PER MAINLINE SIZE.	M	L6.2
NO SYMBOL	SPEARS - 2122, PVC SOCKET WELD BALL VALVE AS MANIFOLD ISOLATION VALVE. SIZE PER LARGEST LATERAL LINE PIPE SIZE IN VALVE MANIFOLD. INSTALLED WITHIN PLASTIC 10" ROUND "PURPLE" VALVE BOX.	CC, CC, EE	L6.3
	EFC-CP-PRS-D-NP-HAN (1" OR 1-1/2") SERIES BRASS, RECYCLED WATER, PRESSURE REGULATING, REMOTE CONTROL VALVE WITH PURPLE HANDLE. SIZE AS SHOWN. INSTALL WITH CS-2W-2ST = CS3000 2-WIRE DECODER.	N, CC, DD, EE	L6.2 L6.3
	RAIN BIRD - EFB-CP-NP, (1" OR 1-1/2") SERIES BRASS REMOTE CONTROL VALVE WITH PURPLE HANDLE. SIZE AS SHOWN. INSTALLED WITH RAIN BIRD PRS-CKCHK-100, 1" PRESSURE REGULATING, QUICK-CHECK BASKET FILTER(S). INSTALL WITH CS-2W-2ST = CS3000 2-WIRE DECODER. INSTALL ONE (1) FILTER FOR DEMANDS (1 - 13) GPM. INSTALL TWO (2) FILTERS FOR DEMANDS (14 - 35) GPM.	O, CC, DD, EE	L6.2 L6.3
NO SYMBOL	CALSENSE - 2-WIRE VALVE DECODER, WITH 2 STATION OUTPUT. INSTALL PER MANUFACTURE RECOMMENDATIONS. EXACT QUANTITY REQUIRED IS BASED ON CONTRACTOR VALVE PLACEMENT/GROUPING IN FIELD.	N, O, P, Q	L6.2
	HUNTER - HD44-LRC-AW-R, 1" NON-POTABLE, ACME THREAD QUICK COUPLER VALVE WITH PURPLE LOCKING COVER FOR RECYCLED WATER WITH ADJACENT 1" PVC BALL VALVE WITHIN 10" ROUND VALVE BOX.	R, CC, DD, EE	L6.2 L6.3

IRRIGATION PIPE & WIRE LEGEND			
SYMBOL	MANUFACTURE / MODEL NO. / DESCRIPTION	DETAIL	SHEET
	BURIED NON-PRESSURE LATERAL LINE PIPE: SCH. 40 "PURPLE" RECYCLED WATER PVC PIPE WITH WORDS "RECYCLED WATER-DO NOT DRINK" INSTALLED 12" BELOW GRADE. FOR SIZES 3/4" TO 2-1/2". MINIMUM PIPE SIZE SHALL BE 3/4" - SIZE LATERALS PER PLAN.	S	L6.2
	BURIED PRESSURE IRRIGATION MAINLINE: "PURPLE" RECYCLED WATER PVC PIPE WITH WORDS "RECYCLED WATER-DO NOT DRINK". SCH. 40 PVC PIPE FOR MAINLINE SIZES (1-1/2" AND SMALLER). CLASS 315 PVC PIPE FOR MAINLINE SIZES (2" AND LARGER). INSTALL WITH 3" WIDE "RECYCLED WATER" METALLIC DETECTABLE WARNING TAPES.	S, AA, BB	L6.2 L6.3
NO SYMBOL	AS APPROVED - CONCRETE THRUST BLOCKS CONSISTING OF MINIMUM (1) ONE CUBIC FOOT OF CONCRETE (2,000 PSI) SHALL BE INSTALLED FOR ALL MAINLINE 2-1/2" OR GREATER AT ELBOWS AND AT POINT OF CHANGE IN DIRECTION.	T	L6.2
NO SYMBOL	T. CHRISTY - TA-DT-3-PRW, 3" WIDE DETECTABLE PURPLE "RECYCLED WATER" METALLIC BACKED UNDERGROUND WARNING TAPE. WARNING TAPE SHALL BE CENTERED 12" ABOVE MAINLINE CONTINUOUSLY ALONG MAINLINE ROUTING AND SLEEVE CROSSINGS.	S, U	L6.2
	PIPE SLEEVE - SCH 40 "PURPLE" RECYCLED WATER PVC PIPE WITH WORDS "RECYCLED WATER-DO NOT DRINK" EXTEND 12" BEYOND EDGE OF HARDCAPE. SLEEVE SHALL BE MINIMUM TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED. MINIMUM 2" SIZE.	U, AA, BB	L6.2 L6.3
	CONTROL WIRE CONDUIT - SCH. 40 PVC, GRAY, COLOR ELECTRICAL CONDUIT WITH SWEEP ELLS. INSTALL UNDER ALL PAVING / HARDCAPE AREAS. CONDUIT SHALL BE MINIMUM TWICE THE DIAMETER OF WIRE BUNDLE CARRIED. MINIMUM 1-1/4" SIZE.	U	L6.2
NO SYMBOL	PAIGE ELECTRIC - CABLE P-7354-D, 2 CONDUCTOR, #14/2 AWG, 2 CONDUCTOR, 14 GAUGE, 2-WIRE CABLE (RED/BLACK) POLYETHYLENE COATED JACKETED WIRE. INSTALL 2-WIRE CABLE WITHIN 1-1/4" ELECTRICAL CONDUIT WITH PULL BOXES LOCATED EVERY 250' AND AT ALL CROSSINGS. SEAL CONDUIT ENDS WITH APPROVED EXPANDING SPRAY FOAM. DO NOT INSTALL 2-WIRE CABLE IN LOOP CONFIGURATION (FOR MULTIPLE CONTROLLERS USE DIFFERING COLOR OUTER JACKET PER CONTROLLER)	S, T, U	L6.2
NO SYMBOL	3M - SCOTCHCAST, CONNECTOR SEALING PACK, MODEL 3570G-N, "EPOXY RESIN" WIRE SPLICE CONNECTORS FOR ALL RCV CONNECTIONS AND SPLICES. THE 3570G-N SEALING PACK WILL ACCOMMODATE ONE 3M™ PERFORMANCE PLUS WIRE CONNECTOR OIB +, RY+ , T/R+, TTY+ OR ONE 3M™ ELECTRICAL SPRING AND GROUNDING CONNECTOR 312 OR 512. INSTALL PER MANUFACTURE RECOMMENDATIONS.	V	L6.2
	PAIGE ELECTRIC - GROUNDING EQUIPMENT: 5/8-INCH X 8-FOOT COPPER GROUNDING ROD. INSTALL ONE (1) GROUNDING ROD AT THE FIRST "RCV" AND LAST "RCV" ON ALL MAINLINE END RUNS AND EVERY EIGHT DEVICES AND OR 300' AND ALONG 2-WIRE PATH PLACED AT CONTROL VALVE WITHIN VALVE BOX CONNECTED TO "RCV" DECODER. DO NOT SPLICE 2-WIRE PATH FOR GROUNDING. USE #6 AWG SOLID COPPER WIRE FROM THE COPPER ROD TO THE FIELD COMMON (WHITE WIRES IN THE BLW G HARNESS) OF THE DECODER. ALL GROUNDING TO BE PER CALSENSE SPECIFICATIONS. CONTACT CALSENSE, (760) 580-1835, FOR INSTALLATION INFORMATION AND PROCEDURE.	W, X, Y	L6.2 L6.3

CALSENSE CONTROLLER NOTES:

CALSENSE TWO WIRE NOTES:

- 3M SCOTCHCAST 3570G-N CONNECTORS WITH WIRE NUT ONLY. ALL UNUSED DECODER AND SLICE WIRES MUST GET A CONNECTOR PACK.
- MAX DISTANCE 100' BETWEEN STATION DECODER AND VALVE, OR 10' POC DECODER AND MASTER VALVE AND FLOW METERS(S). SPECIFY NUMBER OF DECODERS NEEDED. MAXIMUM NUMBER OF TWO-STATION DECODERS IS 70. 10 OTHER TYPES, I.E. POC DECODER, POC DECODER NEEDED FOR EACH MASTER VALVE AND FLOW METER.

TWO WIRE CABLE:

- PAIGE CABLE P-7354-D OR HUNTER REGENCY CABLE IN CONDUIT. MAXIMUM RUN 7,000 FEET. INSTALL WITHIN 1-1/4". ELECTRICAL CONDUIT.

GROUNDING REQUIREMENTS:

EVERY 300 FEET WITH ONE 5/8-INCH X 8-FOOT COPPER CLAD GROUNDING ROD, #12 SOLID COPPER WIRE CONNECTED TO THE DECODER GREEN GROUND WIRE.

GROUNDING EXAMPLE:

[AT CONTROLLER] --- 100' --- [1ST DECODER] ---- 300' ---- [DECODER] ----- 600' ----- [DECODER] --- 150' --- [DECODER] --- 150' --- [LAST DECODER]

NOTE:

CONTRACTOR SHALL CONFIRM QUANTITIES AND PROVIDE MINIMUM (1) ONE SURGE ARRESTOR PROTECTION AND GROUND PL

REVISIONS	DATE
1ST BUILDING SUBMITTAL	09/19/25
PC RESUBMITTAL	02/27/26
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BID SET	07/27/26
BID ADDENDUM 05	09/17/26

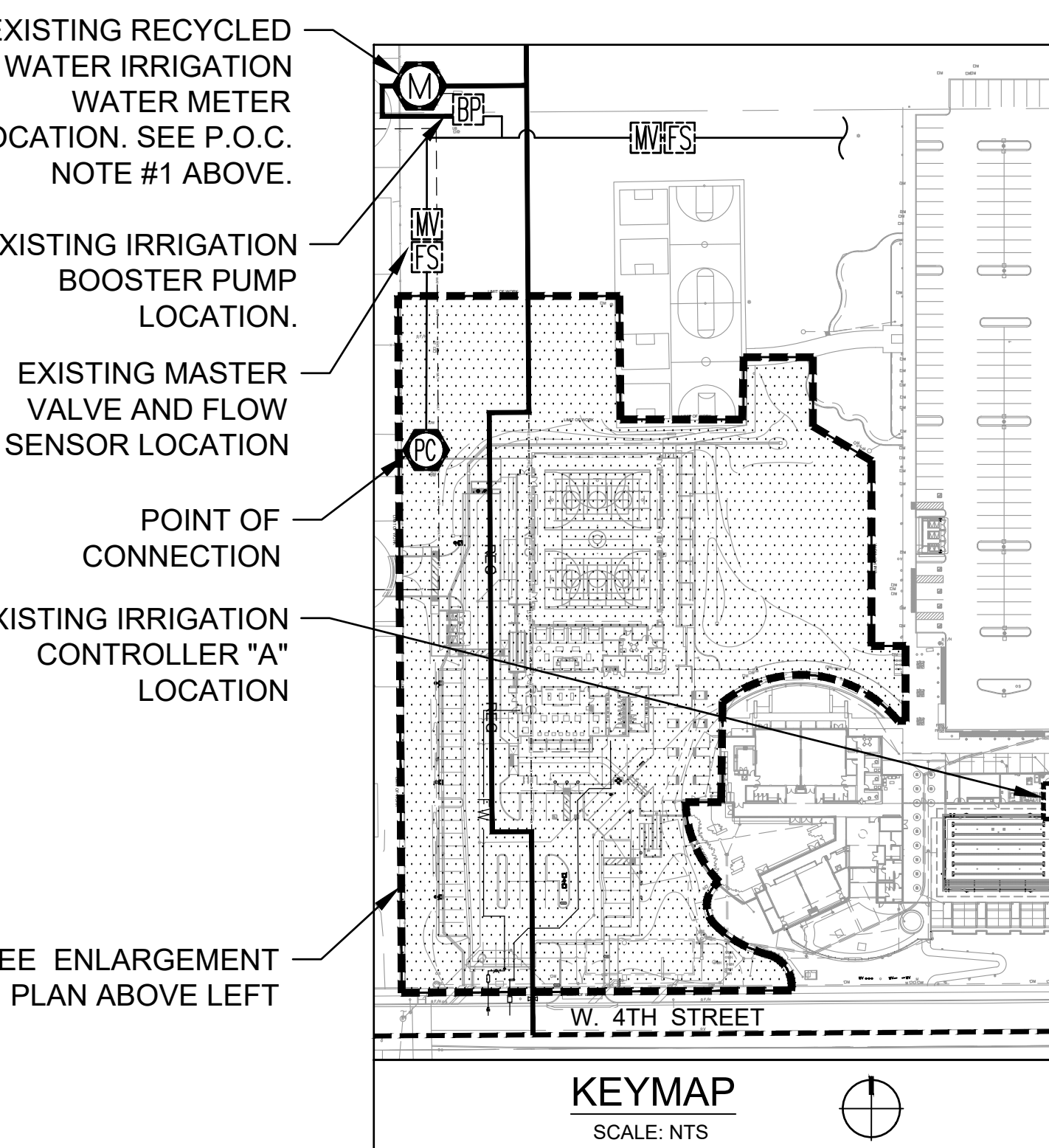
JOB NO.:	2024.01
DRAWN BY:	RCA+A
DATE:	09/17/26
TITLE:	IRRIGATION PLAN
SHEET:	L4.1



EXISTING P.O.C. / WATER METER NOTES	
1	P.O.C. NOTE #1: POINT OF CONNECTION SHALL BE DOWNSTREAM OF EXISTING RECYCLED WATER IRRIGATION METER. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IRRIGATION BACKFLOW DEVICE, CONTROLLER, MASTER VALVE AND FLOW SENSOR AND TESTING FOR PROPER OPERATION. SHOULD ANY OF THESE DEVICES BE INOPERABLE OR NOT IN PLACE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID DEVICES. CONFIRM ANY DISCREPANCIES WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING AND COMMENCING WORK.	
(EXISTING) RECYCLED WATER METER INFORMATION	
ADDRESS: CAMELLIA AVENUE & WEST 4TH STREET ONTARIO, CA	WATER PURVEYOR: CITY OF ONTARIO-WATER DEPT. PH.# 909-395-2681
(EXISTING) METER SIZE	3"
STATIC PRESSURE	80 PSI
SYSTEM DESIGN PRESSURE	77 PSI
BOOSTER PUMP OUTLET PRESSURE	110 PSI
MAXIMUM SYSTEM DEMAND	100 GPM
REVISED LANDSCAPE AREA	60,207 SQ. FT.

EXISTING CONTROLLER "A" NOTES	
2	EXISTING CONTROLLER NOTE #2: EXISTING CALSENSE CONTROLLER "A" LOCATED IN THIS APPROXIMATE LOCATION SHALL BE UTILIZED FOR PROPOSED VALVES. VALVE NUMBERS SHOWN SHALL BE ADJUSTED AS REQUIRED TO UTILIZE THE AVAILABLE OPEN CONTROLLER STATIONS. CONTRACTOR SHALL VERIFY QUANTITY OF OPEN STATIONS OF CONTROLLER PRIOR TO BIDDING AND PRIOR TO COMMENCING WORK. SHOULD SAID CONTROLLER NOT CONTAIN ADEQUATE OPEN STATIONS, CONTRACTOR SHALL INSTALL NEW EXPANSION MODULES FOR THE EXISTING CONTROLLER. CONTRACTOR MAY UTILIZE EXISTING WIRES, IF CONTRACTOR IS UNABLE TO LOCATE SUFFICIENT QUANTITY OF SPARE WIRES CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING OF NEW IRRIGATION CONTROL WIRES TO EXISTING CONTROLLER LOCATION AND MAKING ALL NECESSARY CONNECTIONS FOR PROPER OPERATION. CONTRACTOR SHALL PROVIDE SLEEVING BELOW ALL PAVING BETWEEN EXISTING PLANTERS AND TURF AREAS AND BELOW EXISTING WALKS AS REQUIRED TO ROUTE CONTROL WIRES TO EXISTING CONTROLLER. VERIFY ALL CONDITIONS AND LAYOUT IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.
NOTE: FIELD VERIFY CONTROLLER LETTER AND VALVE NUMBERS PRIOR TO HEAT BRANDING AND NUMBERING VALVE BOXES.	

IRRIGATION CONSTRUCTION NOTES	
1	MAINLINE CONNECTION NOTE: CONTRACTOR SHALL CONNECT PROPOSED NEW IRRIGATION MAINLINE TO THE EXISTING IRRIGATION SYSTEM LOCATED IN THIS APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY ACTUAL EXISTING IRRIGATION MAINLINE LOCATION IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REFER TO IRRIGATION AS-BUILTS FOR EXISTING IRRIGATION SYSTEM LAYOUT. CONTRACTOR SHALL VERIFY ALL IRRIGATION CONNECTION AND DISCONNECTION POINTS IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
2	TRENCHING IN VICINITY OF EXISTING TREES WHENEVER ROOTS OF EXISTING TREES ARE ENCOUNTERED DURING TRENCHING OPERATIONS, THE CONTRACTOR SHALL REROUTE MAIN LINE TRENCHES. DO NOT CUT ROOTS OVER 1" IN DIAMETER. ALL CUTS SHALL BE AT A CLEAN SHARP CUT. IF TRENCHING IS REQUIRED, THE CONTRACTOR SHALL HAND DIG THE TRENCHES TAKING CARE NOT TO DAMAGE ROOTS. NO MECHANICAL TRENCHING WITHIN THE DRILLPIE OF THE EXISTING TREE WILL BE ALLOWED. PROTECT ALL ROOTS EXPOSED TO SUNLIGHT WITH MOIST BURLAP UNTIL COVERED WITH SOIL.
3	REMOVAL AND DISPOSAL NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO COMMENCING WORK. CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO BEGINNING DEMOLITION OR ANY OTHER WORK, AND WALK SITE TO LOCATE EXISTING CONTROLLER AND LINES AND OTHER IRRIGATION TO BE PROTECTED IN PLACE.
4	ADJACENT IRRIGATION NOTE: ALL ADJACENT SYSTEMS SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION. NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEMS WATERING WILL BE ALLOWED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/REMOVAL OF ALL ADJACENT IRRIGATION SYSTEMS EQUIPMENT THAT IS AFFECTED BY PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL ADJUST AND CAP OFF EXISTING ADJACENT IRRIGATION SYSTEMS AS REQUIRED. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING COMPLETE 100% HEAD TO HEAD COVERAGE WITH NO PONDING, RUNOFF, OR OVER-SPRAY IN ALL AREAS. SYSTEM LAYOUT SHALL APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING AND COMMENCING WORK.
5	NO DRIP ZONE AT TREES NOTE: DRIPLINE SHALL BE OUTSIDE OF TRUNK FLARE 8" SQUARE OR DIAMETER. CONTRACTOR SHALL MAINTAIN A 8'-0" CLEARANCE AREA AROUND NEW TREES AND 12' MINIMUM AT EXISTING TREES, WITH NO DRIP TUBING, AS REQUIRED BY CITY STANDARD.



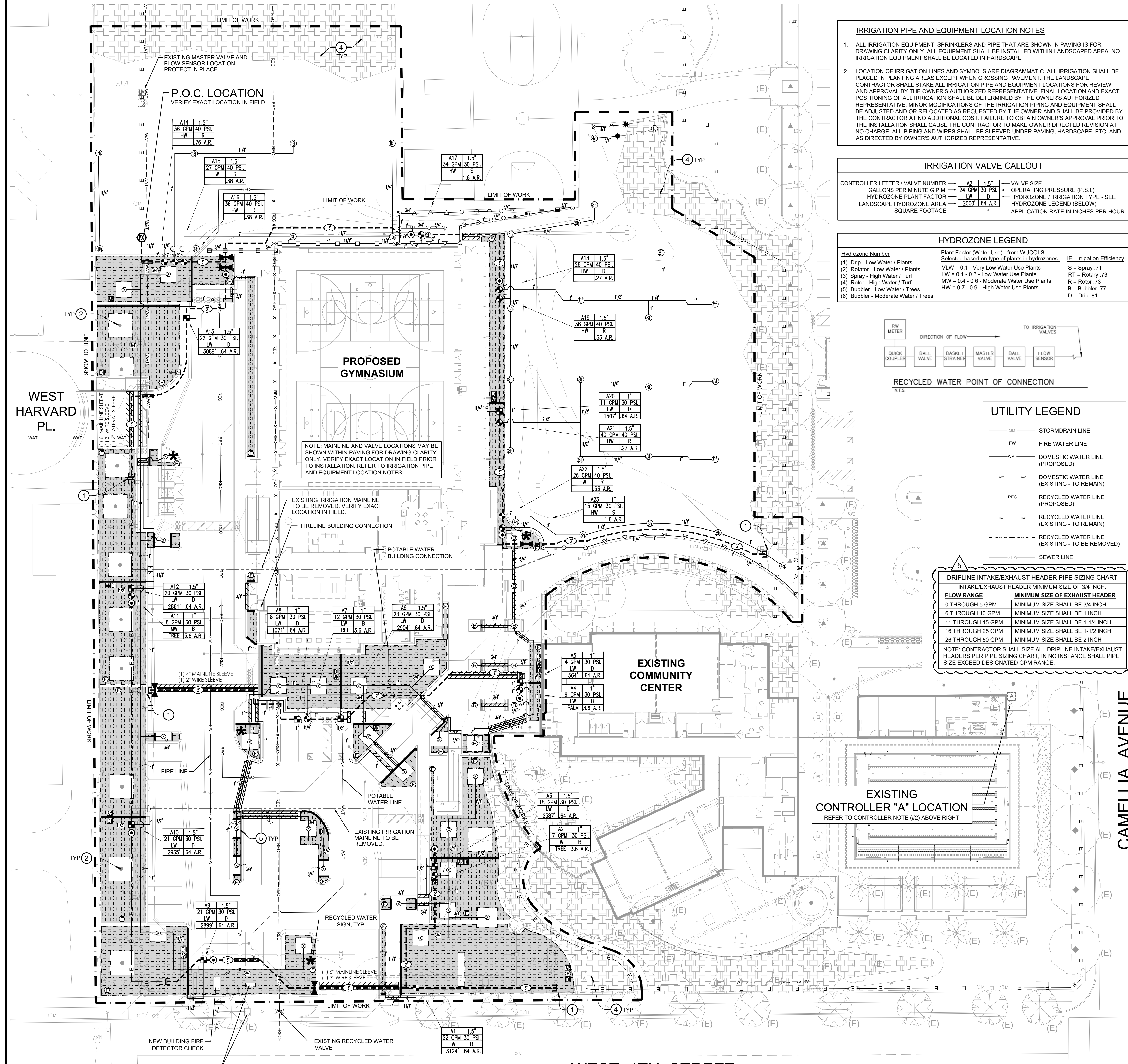
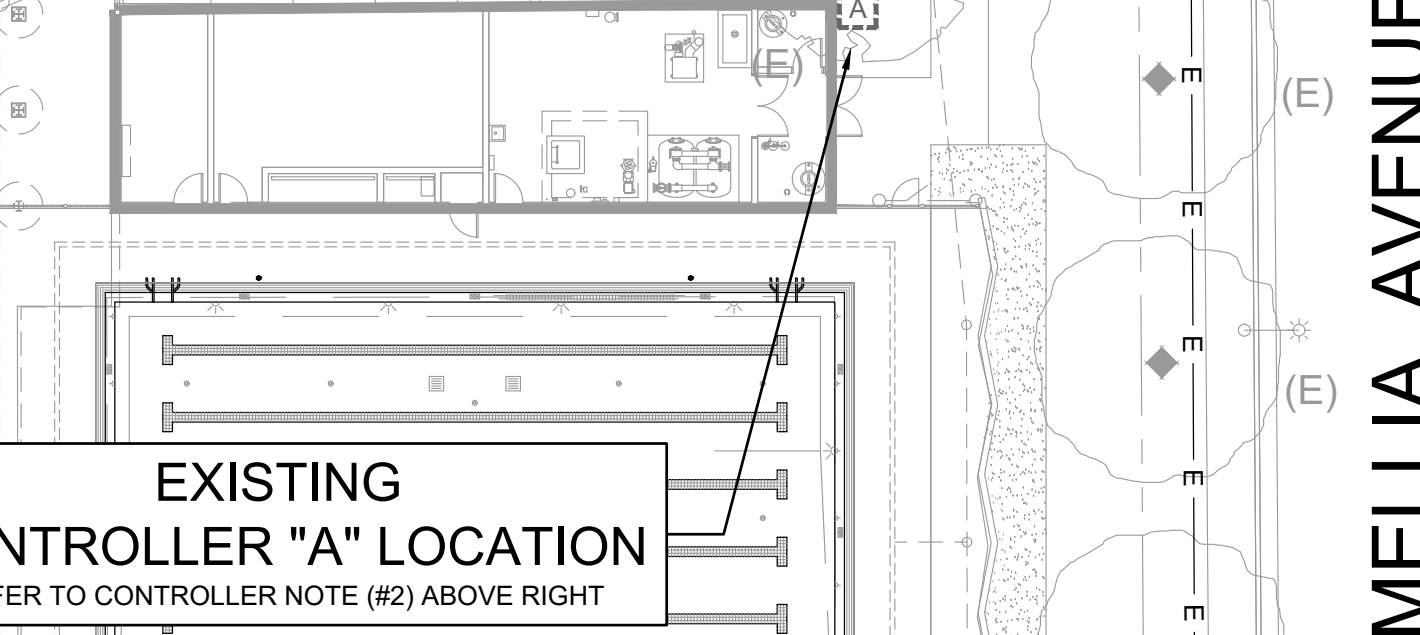
IRRIGATION PIPE AND EQUIPMENT LOCATION NOTES	
1.	ALL IRRIGATION EQUIPMENT, SPRINKLERS AND PIPE THAT ARE SHOWN IN PAVING IS FOR DRAWING CLARITY ONLY. ALL EQUIPMENT SHALL BE INSTALLED WITHIN LANDSCAPED AREA. NO IRRIGATION EQUIPMENT SHALL BE LOCATED IN HARDSCAPE.
2.	LOCATION OF IRRIGATION LINES AND SYMBOLS ARE DIAGRAMMATIC. ALL IRRIGATION SHALL BE PLACED IN PLANTING AREAS EXCEPT WHEN CROSSING PAVEMENT. THE LANDSCAPE CONTRACTOR SHALL STAKE ALL IRRIGATION PIPE AND EQUIPMENT LOCATIONS FOR REVIEW AND APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE. FINAL LOCATION AND EXACT POSITIONING OF ALL IRRIGATION SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF THE IRRIGATION PIPING AND EQUIPMENT SHALL BE ADJUSTED AND OR RELOCATED AS REQUESTED BY THE OWNER AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISION AT NO CHARGE. ALL PIPING AND WIRES SHALL BE SLEEVED UNDER PAVING, HARDSCAPE, ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.

IRRIGATION VALVE CALLOUT	
CONTROLLER LETTER / VALVE NUMBER	A2, 1.5"
GALLONS PER MINUTE G.P.M.	24 GPM 30 PSI
HYDROZONE PLANT FACTOR	D
LANDSCAPE HYDROZONE AREA	2000' 64 A.R.
SQUARE FOOTAGE	
VALVE SIZE	1.5"
OPERATING PRESSURE (P.S.I.)	D
HYDROZONE / IRRIGATION TYPE - SEE HYDROZONE LEGEND (BELOW)	
APPLICATION RATE IN INCHES PER HOUR	

HYDROZONE LEGEND	
Hydrozone Number	Plant Factor (Water Use) - from WUCOLS
(1) Drip - Low Water / Plants	Selected based on type of plants in hydrozones:
(2) Rotator - Low Water / Plants	VLW = 0.1 - Very Low Water Use Plants
(3) Spray - High Water / Turf	LW = 0.1 - 0.3 - Low Water Use Plants
(4) Rotor - High Water / Turf	MW = 0.4 - 0.6 - Moderate Water Use Plants
(5) Bubbler - Low Water / Trees	HW = 0.7 - 0.9 - High Water Use Plants
	IE - Irrigation Efficiency
	S = Spray .71
	RT = Rotary .73
	R = Rotor .73
	B = Bubbler .77
	D = Drip .81

UTILITY LEGEND	
SD	STORMDRAIN LINE
FW	FIRE WATER LINE
WAT	DOMESTIC WATER LINE (PROPOSED)
---	DOMESTIC WATER LINE (EXISTING - TO REMAIN)
REC	RECYCLED WATER LINE (PROPOSED)
---	RECYCLED WATER LINE (EXISTING - TO REMAIN)
---	RECYCLED WATER LINE (EXISTING - TO BE REMOVED)
SEW	SEWER LINE

DRIPLINE INTAKE/EXHAUST HEADER PIPE SIZING CHART	
INTAKE/EXHAUST HEADER MINIMUM SIZE OF 3/4 INCH	
FLOW RANGE	MINIMUM SIZE OF EXHAUST HEADER
0 THROUGH 5 GPM	MINIMUM SIZE SHALL BE 3/4 INCH
6 THROUGH 10 GPM	MINIMUM SIZE SHALL BE 1 INCH
11 THROUGH 15 GPM	MINIMUM SIZE SHALL BE 1-1/4 INCH
16 THROUGH 25 GPM	MINIMUM SIZE SHALL BE 1-1/2 INCH
26 THROUGH 50 GPM	MINIMUM SIZE SHALL BE 2 INCH
NOTE: CONTRACTOR SHALL SIZE ALL DRIPLINE INTAKE/EXHAUST HEADERS PER PIPE SIZING CHART. IN NO INSTANCE SHALL PIPE SIZE EXCEED DESIGNATED GPM RANGE.	



FOR IRRIGATION SCHEDULES & CALCULATIONS - SEE SHEET L4.0
FOR IRRIGATION NOTES - SEE SHEET L5.1
FOR IRRIGATION DETAILS - SEE SHEETS L6.1 - L6.3
FOR LANDSCAPE SPECIFICATIONS - SEE BOOK SPECIFICATIONS

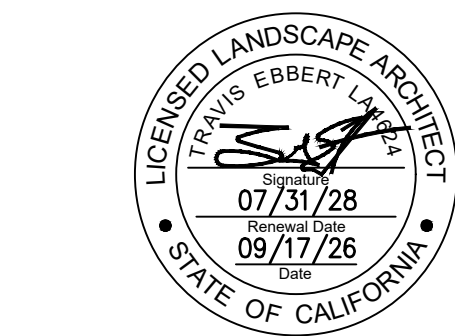


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PC RESUBMITTAL	02/27/26
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SHEET:	



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SHEET:	

- ### Irrigation General Notes
- IRRIGATION PLANS ARE DESIGNED AS DIAGRAMMATIC AND APPROXIMATE. ALL IRRIGATION EQUIPMENT, SPRINKLERS AND PIPE ARE TO BE INSTALLED IN LANDSCAPED AREA. NO IRRIGATION EQUIPMENT SHALL BE LOCATED IN HARDSCAPE. THE IRRIGATION CONTRACTOR SHALL ENSURE OVERSPRAY ONTO HARDSCAPE, STREETS, WALLS OR ANY OTHER HARDSCAPE STRUCTURE.
 - MAINLINE SHOWN WITHIN PAVING FOR DRAWING CLARITY ONLY. ACTUAL MAINLINE LOCATION TO BE A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES TYP.
 - OVERHEAD IRRIGATION SHALL NOT BE PERMITTED WITHIN 24 INCHES OF ANY NONPERMEABLE SURFACE. (PER STATE ORDINANCE AB 1801.) ABSOLUTELY NO OVERSPRAY OR LOW HEAD DRAINAGE IS ALLOWED.
 - IRRIGATION SLEEVES SHOWN FOR MAJOR STREET AND DRIVEWAY CROSSINGS FOR CLARITY ONLY. CONTRACTOR SHALL INSTALL SLEEVING BEFORE ALL PAVING. HARDSCAPE, ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.
 - ALL PIPING AND WIRE SHALL BE SLEEVED UNDER PAVING. ALL SLEEVES TO BE MINIMUM 2X DIAMETER OF PIPE SLEEVES. ALL MAINLINE SHALL BE ACCOMPANIED WITH A MINIMUM 2-INCH DIAMETER WIRE SLEEVE. SLEEVING TO EXTEND MINIMUM 12 INCHES BEYOND PAVING.
 - ALL IRRIGATION ADJACENT TO BUILDING SHALL BE INSTALLED A MINIMUM DISTANCE OF 12" INCHES FROM BUILDING TO AVOID WATER/OVERSPRAY ONTO BUILDING OR WINDOWS. ALL LAYOUT SHALL BE CONFIRMED IN FIELD WITH OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK.
 - TREE BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING AND BUILDINGS FOR DRAWING CLARITY ONLY. ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE LOCATED IN FIELD AND AS DIRECTED BY OWNERS AUTHORIZED REPRESENTATIVE. CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
 - CONTROLLER LOCATION SHOWN ON THIS DRAWING IS APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT THE CONTROLLER LOCATION FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO INSTALLATION OF THIS EQUIPMENT. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONNECTION FROM 120 VOLT POWER SOURCE TO THE CONTROLLER AND ALL WIRE CONNECTIONS FROM ALL VALVES AND APPURTENANCE VALVES TO TERMINAL STRIP. REFER TO ELECTRICAL ENGINEER'S DRAWING'S FOR POWER SOURCE. ALL ELECTRICAL WORK SHALL CONFORM TO LOCAL STATE AND NATIONAL ELECTRICAL CODES AND REGULATIONS. FINAL LOCATION AND EXACT POSITIONING OF THE CONTROLLER SHALL BE DETERMINED BY THE OWNER. MINOR MODIFICATIONS OF CONTROLLER REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNERS APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER.
 - ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS ON THIS DRAWING ARE APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT EACH ELECTRICAL CONTROL VALVE AND ISOLATION VALVE LOCATION FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION OF ALL VALVES. FINAL LOCATION AND EXACT POSITIONING FOR ELECTRIC CONTROL VALVES AND ISOLATION VALVES SHALL BE DETERMINED BY THE OWNER. MINOR MODIFICATIONS OF ELECTRIC CONTROL VALVES AND ISOLATION VALVE LOCATIONS AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. FAILURE TO OBTAIN OWNERS APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISIONS AT NO ADDITIONAL COST TO THE OWNER. IN GENERAL, UNLESS OTHERWISE DIRECTED BY OWNER, ALL VALVES SHALL BE INSTALLED THREE FEET FROM EDGE OF HARDSCAPE, WALK OR CURB IN SHRUB PLANTING AREAS.
 - NEW CONTROLLER SHALL BE INSTALLED FOR SERVICING THE NEW AND EXISTING AREA AND SHALL BE CALLED OUT CS 3000. CONTACT BOB MOXLEY FOR PROPER CALL OUT (760) 580-9428.
 - FINAL LOCATION FOR IRRIGATION CONTROLLERS, ET GAUGE AND RAIN BUCKET SHALL BE DETERMINED BY CITY STAFF.
 - ALL NEW IRRIGATION EQUIPMENT SHALL BE PER THE CITY OF ONTARIO IRRIGATION EQUIPMENT LIST.
 - ALL IRRIGATION EQUIPMENT SHALL FOLLOW CITY OF ONTARIO IRRIGATION STANDARDS.
 - CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY REPAIRS TO IRRIGATION AND SHRUB AREAS DUE TO THE CONTRACTOR NEGLIGENCE.

CONTROLLER SETUP NOTES:

- CONTRACTOR IS TO ENGAGE AND CONSULT CONTROLLER MANUFACTURE AT INCEPTION OF PROJECT AND CONTROLLER SETUP FOR COORDINATION PURPOSES.
- CONTROLLER SETUP SHALL INCLUDE:
 - FLOW RATES ACQUIRED FOR ALL STATIONS
 - STATION DESCRIPTIONS
 - STATION GROUPS NAMES BY GROUP AND ASSIGNED TO CORRECT PROGRAM
 - STATION PRIORITIES
 - ALERT ACTIONS SET TO HIGH FLOW ALERT/SHUT OFF AND LOW FLOW ALERT/NO ACTION
 - ALL WEATHER SETTINGS AND CENTRAL CONTROL COMMUNICATION FOR "ET" AND RAIN USE
 - BUDGETS SETUP IN PROGRAMMING
 - ALL PROGRAMS SHALL BE WATERING IN THE WATER BUDGET ALLOCATED BY THE WATER DISTRICT PRIOR TO COMMENCEMENT OF MAINTENANCE.

COLOR CHART NOTE:

PROVIDE A NEATLY DRAWN LAMINATED IRRIGATION LAYOUT CHART FOR AUTOMATIC CONTROLLERS. CENTRAL CONTROLLER SHALL INCLUDE A MANUFACTURE SUPPORT PAGE. PEDESTALS SHALL BE LOCATED WITHIN PLANTER AREAS WITH 18" PAD OF DG OR MULCH AT FRONT FOR ACCESS.

IRRIGATION WATER AUDIT NOTE:
AN IRRIGATION AUDIT REPORT BY A CERTIFIED IRRIGATION AUDITOR, SHALL BE PROVIDE PRIOR TO CITY LANDSCAPE INSPECTION. REPORT SHALL INCLUDE:

- CONTROLLER PROGRAM IRRIGATION SCHEDULE TO INCLUDE: START TIMES, PROGRAMS, AND RUN TIMES. SCHEDULE SHALL CONSIDER APPLICATION RATE, SOIL TYPE, PLANTS FACTOR, SLOPE AND EXPOSURE.
- CONTROLLER PROGRAMING TO ON-SITE WEATHER SENSOR OR CIMIS STATION
- CONTROLLER PROGRAMING TO FLOW SENSOR AND MASTER VALVE, OR LEARNED RUN TIMES.
- VERIFICATION OF EFFICIENT WATER USE WITH NO RUN OFF OR OVERSPRAY BY TESTING MIN. 15% OF SITE
- VERIFICATION OF THE REDUCED SIZE IRRIGATION PLAN, LAMINATED WITH LAYOUT CHART INDICATING VALVE NUMBER AND COLOR-CODE AREA OF SYSTEM LIMITS AND IRRIGATION RUN SCHEDULE

Irrigation Installation Notes

- THE CONTRACTOR SHALL OBTAIN, COORDINATE AND PAY FOR ANY AND ALL PERMITS AND ALL INSPECTIONS AS REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY AND ALL DAMAGES TO OPERATIONS OR WORK OF OTHER CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ACTIVITIES WITH ALL AGENCIES AND OTHER TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY ENCRoACHMENT INTO ADJACENT PROPERTY, R.O.W.'S, EASEMENTS, SETBACKS OR ANY OTHER LEGAL PROPERTY RESTRICTIONS EITHER MARKED OR UNMARKED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY DAMAGE TO UNDERGROUND UTILITIES THAT MAY OCCUR.
- THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING PLANS BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON PLANS AT THE SITE PRIOR TO COMMENCEMENT OF ANY WORK. ALL DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO PROJECT LANDSCAPE ARCHITECT FOR DIRECTION. ANY CONTINUATION OF WORK IS AT THE CONTRACTORS RISK AND EXPENSE.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE PROJECT LANDSCAPE ARCHITECT FOR DIRECTION.
- BEFORE ANY WORK COMMENCES, A CONFERENCE SHALL BE HELD WITH THE CITY'S PUBLIC WORKS INSPECTOR, LANDSCAPE ARCHITECT AND THE CONTRACTOR, REGARDING GENERAL REQUIREMENTS OF THIS WORK.
- INSTALL ALL IRRIGATION COMPONENTS ACCORDING TO LOCAL CODES AND ORDINANCES.
- THE IRRIGATION WATER METER IS TO BE PROVIDED BY THE OWNER UNLESS SHOWN OTHERWISE ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL IRRIGATION EQUIPMENT DOWNSTREAM OF THE POINT OF CONNECTION (P.O.C.) AT THE IRRIGATION WATER METER.
- ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS (INCLUDING EXISTING AND/OR NEW PLANT MATERIAL), GRADE DIFFERENCES OR DIFFERENCES IN THE AREA'S DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- THE WORK SHOWN ON THESE PLANS IS DIAGRAMMATIC; ALL ITEMS, I.E. CONTROLLERS, VALVES, MAINLINES, SLEEVES, WIRES, IRRIGATION HEADS, ETC. ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. DO NOT SCALE DIMENSIONS. DETAIL DRAWINGS MAY CLARIFY LOCATIONS OF SOME ITEMS. THE CONTRACTOR SHALL NOT LOCATE ANY ITEMS WHERE IT IS OBVIOUS THAT THEY ARE IN CONFLICT WITH UNDERGROUND UTILITIES, STRUCTURES, OTHER IMPROVEMENTS, OR VEHICULAR OR PEDESTRIAN SAFETY CONSIDERATIONS.
- CONTROLLER LOCATIONS ARE APPROXIMATE. FINAL LOCATION OF THE AUTOMATIC CONTROLLER AND THE BACKFLOW DEVICE SHALL BE APPROVED BY THE OWNER AND THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL CONSTANT PRESSURE LINES SHALL BE TESTED FOR 3 HOURS UNDER A HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH AND BE PROVEN WATER TIGHT. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT FOR HYDROSTATIC TESTS. HYDROSTATIC TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE LANDSCAPE ARCHITECT, CITY PUBLIC WORKS INSPECTOR OR, IF APPROVED BY LANDSCAPE ARCHITECT, CONTRACTOR MAY E-MAIL DIGITAL PHOTOGRAPHS OF THE PRESSURE GAUGE TO THE LANDSCAPE ARCHITECT AT BEGINNING AND END OF TEST PERIOD.
- 120-VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED PER THE ELECTRICAL ENGINEER'S PLANS AND SPECIFICATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ELECTRICAL SERVICE WITH THE GENERAL CONTRACTOR AND TO MAKE THE FINAL HOOKUP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER.
- ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- BACKFLOW DEVICE SHALL BE INSTALLED IN GROUND COVER AREA WHEREVER POSSIBLE. FINAL LOCATION SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE AND MAY VARY FROM THAT INDICATED ON THE DRAWINGS.
- QUICK COUPLER VALVES, CONTROL VALVES, AND SHUT-OFF VALVES SHALL BE INSTALLED IN GROUND COVER AREAS WHEREVER POSSIBLE.
- PIPING AND WIRE CONDUIT PENETRATIONS THROUGH WALLS AND INSTALLATION EQUIPMENT UNDER PAVING SHALL BE INSTALLED IN SCH 40 PVC SLEEVES, AS CALLED OUT ON PLANS, OR AS PER LOCAL CODES AND MUST BE COORDINATED WITH THE GENERAL CONTRACTOR AND CONTRACTORS OF ALL VARIOUS TRADES THAT MAY BE INVOLVED TO ELIMINATE PROBLEMS THAT MAY ARISE FROM INACCESSIBILITY OR DAMAGE TO ANOTHER TRADE'S WORK. PIPING AND WIRE CONDUIT PENETRATIONS THROUGH EXISTING WALLS SHALL BE CORE DRILLED AND SLEEVED PER ABOVE, UNLESS AN EXISTING SLEEVE IS AVAILABLE FOR RE-USE WHICH WILL NOT SIGNIFICANTLY AFFECT THE SYSTEM DESIGN.
- USE CHECK VALVES AS REQUIRED TO ELIMINATE LOW HEAD DRAINAGE.
- THE CONTRACTOR SHALL INSTALL KSI SERIES SHUT-DRAIN VALVES ON ALL LATERALS IN AREAS WHERE SLOPE OF GRADE EXCEEDS 4:1, WHERE POST VALVE SHUT-OFF DRAINING OF THE IRRIGATION OCCURS, OR AS DIRECTED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR SHALL ONLY APPLY SUFFICIENT WATER TO PROMOTE HEALTHY GROWTH OF PLANT MATERIAL. AT NO TIME SHALL THE CONTRACTOR APPLY WATER AT A RATE OF FREQUENCY WHICH CAUSES RUNOFF OR OVER-SATURATION OF THE SOIL.
- THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO ADJACENT PAVING, WALLS OR OTHER HARDSCAPE ELEMENTS TO THE EXTENT POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND ADJUSTING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING FLOW FOR EACH SYSTEM.
- WHEN RADIUS OF SPRINKLER HEADS AS REQUIRED FOR PROPER COVERAGE IS LESS THAN RADIUS SHOWN ON LEGEND, THE CONTRACTOR SHALL EQUIP SPRINKLER HEAD WITH A PRESSURE COMPENSATING SCREEN (PCS) FOR LOW FLOW AND RADIUS CONTROL.
- USE ADJUSTABLE ARC NOZZLES FOR ALL HEADS LOCATED IN AREAS WHERE A STANDARD ARC PATTERN SPRAYS OVER ONTO ADJACENT PAVING, WALLS OR OTHER HARDSCAPE ELEMENTS. ADJUSTABLE ARC NOZZLE SHOULD HAVE THE SAME RADIUS OF THROW AS THE NOZZLE BEING REPLACED.
- NO OVERSPRAY OR LOW HEAD DRAINAGE SHALL BE ALLOWED.
- WHEN VERTICAL OBSTRUCTIONS (LIGHT POLES, FIRE HYDRANTS, TREES, ETC.) INTERFERE WITH THE SPRAY PATTERN OF THE SPRINKLER HEADS SO AS TO PREVENT PROPER COVERAGE, THE CONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A QUARTER CIRCLE OR HALF CIRCLE SPRINKLER HEAD ON EACH SIDE OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWING. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE IMMEDIATELY UPON REJECTION.
- THE ENTIRE SPRINKLER SYSTEM SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP, INCLUDING THE SETTLING OF BACKFILLED AREAS AND TRENCHES FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK. SHOULD ANY OPERATION DIFFICULTIES IN CONNECTION WITH THE SPRINKLER SYSTEM DEVELOP WITHIN THE SPECIFIED GUARANTEE PERIOD, WHICH IN THE OPINION OF THE OWNER MAY BE DUE TO INFERIOR MATERIAL AND/OR WORKMANSHIP, SAID DIFFICULTIES SHALL BE IMMEDIATELY CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
- THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT EACH POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY WATER PRESSURE IN THE FIELD PRIOR TO CONSTRUCTION TO DETERMINE IF IT IS SUFFICIENT TO OPERATE SYSTEMS AS DESIGNED. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE PROJECT LANDSCAPE ARCHITECT. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- AFTER INSTALLATION OF THE IRRIGATION SYSTEM IS COMPLETED, THE CONTRACTOR SHALL PERFORM A COVERAGE TEST IN THE PRESENCE OF THE LANDSCAPE ARCHITECT AND CITY PUBLIC WORKS INSPECTOR TO DETERMINE IF THE IRRIGATION COVERAGE FOR PLANTING AREAS IS ADEQUATE AND COMPLETE. FURNISH ALL MATERIALS AND PERFORM ALL WORK REQUIRED TO CORRECT ANY INADEQUACIES OF COVERAGE DUE TO DEVIATIONS FROM THE PLANS OR BECAUSE DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS WERE NOT BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

NOTE:

"CONTRACTOR TO REPAIR OR REPLACE ALL LANDSCAPE AND IRRIGATION MISSING OR NOT WORKING TO A FULLY FUNCTIONING SYSTEM WITH 100% COVERAGE." ALL EXISTING SYSTEMS SHALL BE REPAIRED TO PREVENT OVERSPRAY OR RUNOFF ONTO SIDEWALKS OR STREETS.

Existing Irrigation Notes

- THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE EXISTING IRRIGATION AND PLANTING ON PROPERTY. ANY DAMAGE OR ADJUSTMENTS REQUIRED INCLUDING REPLACING OR RELOCATING IRRIGATION LINES, HEADS, VALVES, WIRES OR ANY UTILITY THAT OCCURS ON THE PARCEL DUE TO THE CONSTRUCTION OF THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNERS REPRESENTATIVE MUST REVIEW ANY REQUIRED MODIFICATIONS TO THESE AREAS PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST NOTIFY THE OWNERS AUTHORIZED REPRESENTATIVE OF THESE CONDITIONS OR ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, PROPERTY LINES, DIMENSIONS, ETC. PRIOR TO COMMENCING WORK. ALL EXISTING IRRIGATION SYSTEMS SHALL BE VERIFIED IN THE FIELD AT START OF CONSTRUCTIONS. ALL EXISTING MAINLINES, RCVS, BACKFLOW DEVICES, CONTROLLERS, METERS, SERVICE LINES, ETC. SHALL BE VERIFIED IN FIELD. ALL EXISTING IRRIGATION EQUIPMENT SHALL BE CLEARLY INDICATED INCLUDING SIZES AND MODEL NUMBERS TO SCALE ON AN ACCURATE BASE DRAWING AND SUBMITTED AS A SHOP DRAWING. SAID SHOP DRAWING SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT, AND OWNERS AUTHORIZED REPRESENTATIVE FOR REVIEW AND APPROVAL. NOTIFY THE OWNERS AUTHORIZED REPRESENTATIVE IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. NO WORK SHALL PROCEED WITHOUT APPROVAL OF SAID SHOP DRAWINGS.
- ALL EQUIPMENT LOCATIONS AND PIPE ROUTING SHALL BE STAKED IN FIELD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. ALL LAYOUT SHALL BE AS APPROVED BY LANDSCAPE ARCHITECT, AND OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. NO EQUIPMENT SHALL BE INSTALLED WITHOUT APPROVAL OF LAYOUT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION OF PROPOSED IRRIGATION EQUIPMENT AND RELATED EQUIPMENT, INCLUDING BUT NOT LIMITED TO R.C.V. CONTROL WIRES, ELECTRICAL WIRES, CONDUIT, REMOTE CONTROL VALVES, ETC. ALL LAYOUT AND LOCATIONS SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY PROPOSED IRRIGATION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING COMPLETE 100% HEAD TO HEAD COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY THE OWNERS AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH THE OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL REFER TO CORRESPONDING ON-SITE WATER AND SEWER PLAN FOR UNDERGROUND UTILITIES, EASEMENTS, AND OTHER RELATED EQUIPMENT. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN FIELD WITH OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO EXISTING IRRIGATION, LANDSCAPE AND HARDSCAPE DAMAGED BY NEW CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL MEET WITH THE OWNER PRIOR TO BEGINNING DEMOLITION OR ANY OTHER WORK, AND WALK SITE TO LOCATE EXISTING CONTROLLER AND LINES AND OTHER IRRIGATION TO BE PROTECTED IN PLACE.
- CONTRACTOR SHALL PROVIDE FOR THE IRRIGATION OF EXISTING PLANT MATERIAL THROUGHOUT THE CONSTRUCTION PROCESS. ANY DAMAGE DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY TO PREVENT ANY LAPSE IN IRRIGATION OF THE EXISTING PLANT MATERIAL. ANY PLANT MATERIAL AND/OR IRRIGATION DAMAGED AS PART OF CONSTRUCTION SHALL BE REPAIRED TO A LIKE NEW CONDITION AS PART OF CONTRACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ADJUSTMENT/MODIFICATION OF EXISTING IRRIGATION SYSTEM WITHIN THIS AND OTHER AREAS AFFECTED BY THE PROPOSED IMPROVEMENTS. ALL LAYOUT SHALL BE CONFIRMED WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK.
- NO DISRUPTION OF THE EXISTING IRRIGATION SYSTEMS WATERING WILL BE ALLOWED DURING CONSTRUCTION. ALL ADJACENT SYSTEM SHALL MAINTAIN AUTOMATIC PROGRAMMED WATERING SCHEDULES THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN EXISTING IRRIGATION AS-BUILT RECORD DRAWINGS FOR ADJACENT IRRIGATED AREAS PRIOR TO STARTING WORK. ALL EXISTING IRRIGATION EQUIPMENT LOCATION, SIZES, AND CONDITIONS SHALL BE VERIFIED IN FIELD WITH OWNERS AUTHORIZED REPRESENTATIVE AT START OF WORK.
- WHENEVER ROOTS OF EXISTING TREES ARE ENCOUNTERED DURING TRENCHING OPERATIONS, THE CONTRACTOR SHALL REROUT MAIN LINE TRENCHES. DO NOT CUT ROOTS OVER 1" IN DIAMETER. ALL CUTS SHALL BE A CLEAN SHARP CUT. IF TRENCHING IS REQUIRED, THE CONTRACTOR SHALL HAND DIG THE TRENCHES TAKING CARE NOT TO DAMAGE ROOTS. NO MECHANICAL TRENCHING WITHIN THE DRIPLINE OF THE EXISTING TREE WILL BE ALLOWED. PROTECT ALL ROOTS EXPOSED TO SUNLIGHT WITH MOIST BURLAP UNTIL COVERED WITH SOIL.
- EXISTING IRRIGATION PUMP MUST BE SUFFICIENT TO RUN THE NEW IRRIGATION AND STILL FIT WITHIN THE MANDATORY IRRIGATION WATER WINDOW OF 10PM TO 6AM. IF THE NEW IRRIGATION EXCEEDS THE EXISTING PUMP CAPACITY, A NEW PUMP SHALL BE PROPERLY SIZED AND INSTALLED.

GUIDELINES FOR RECYCLED WATER USE

- THE FOLLOWING GUIDELINES ARE INTENDED TO PROVIDE THE BASIC PARAMETERS FOR THE USE OF RECLAIMED WATER IN LANDSCAPE IRRIGATION. TO OPERATE YOUR SYSTEM IN COMPLIANCE WITH THESE GUIDELINES YOU MUST:
- IRRIGATE BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. ONLY. WATERING OUTSIDE THIS TIME FRAME MUST BE DONE MANUALLY WITH QUALIFIED SUPERVISORY PERSONNEL ON-SITE. NO SYSTEM SHALL AT ANY TIME BE LEFT UNATTENDED DURING USE OUTSIDE THE NORMAL SCHEDULE.
 - IRRIGATE IN A MANNER THAT WILL MINIMIZE RUNOFF POOLING AND PONDING. THE APPLICATION RATE SHALL NOT EXCEED THE INFILTRATION RATE OF THE SOIL. TIMERS MUST BE ADJUSTED SO AS TO BE COMPATIBLE WITH THE LOWEST SOIL INFILTRATION RATE. PRESENT. THIS PROCEDURE MAY BE FACILITATED BY THE EFFICIENT SCHEDULING OF THE AUTOMATIC CONTROL CLOCKS. (I.E. EMPLOYING THE REPEAT FUNCTION TO BREAK UP THE TOTAL IRRIGATION TIME INTO CYCLES THAT WILL PROMOTE MAXIMUM SOIL ABSORPTION).
 - ADJUST SPRAY HEADS TO ELIMINATE OVERSPRAY INTO AREAS NOT UNDER THE CONTROL OF THE CUSTOMER. FOR EXAMPLE, POOL DECKS, PRIVATE PATIOS, STREETS AND SIDEWALKS.
 - MONITOR AND MAINTAIN THE SYSTEM TO MINIMIZE EQUIPMENT AND MATERIAL FAILURE. BROKEN SPRINKLER HEADS, LEAKS, UNRELIABLE VALVES, ETC., SHOULD BE REPAIRED AS SOON AS THEY BECOME APPARENT.
 - EDUCATE ALL MAINTENANCE PERSONNEL, ON A CONTINUOUS BASIS, OF THE PRESENCE OF RECLAIMED WATER, AND THE FACT THAT IT IS NOT APPROVED FOR DRINKING PURPOSES. GIVEN THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY, IT IS IMPORTANT THAT THIS INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS. IT IS YOU, THE LANDSCAPE CONTRACTOR, WHO IS RESPONSIBLE FOR EDUCATING EACH AND EVERY ONE OF YOUR EMPLOYEES.
 - OBTAIN PRIOR APPROVAL FOR ANY CHANGES AND MODIFICATIONS TO ANY ON-SITE FACILITIES. SUCH CHANGES MUST BE SUBMITTED TO, AND APPROVED BY, THE DISTRICT ENGINEERING OFFICE AND DESIGNED IN ACCORDANCE WITH DISTRICT STANDARDS. FAILURE TO COMPLY WITH ANY OR ALL OF THE ABOVE GUIDELINES PUTS YOUR SYSTEM IN VIOLATION OF THE DISTRICT'S RULES AND REGULATIONS AND WILL RESULT IN TERMINATION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE STEPS HAVE BEEN TAKEN.

CITY OF ONTARIO LANDSCAPE IRRIGATION RECYCLED WATER NOTES

- THE INSTALLATION OF THE LANDSCAPE IRRIGATION SYSTEM SHALL CONFORM TO THE PROVISIONS SET FORTH HEREIN AND ANY CONDITIONS, STANDARDS AND REQUIREMENTS SET FORTH BY THE CITY OF ONTARIO IN ADDITION TO THESE PLANS, NOTES AND SPECIFICATIONS.
- RECYCLED WATER IRRIGATION PROJECTS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, ORDINANCES, REGULATIONS, INCLUDING THE STATE WATER RESOURCES CONTROL BOARD (SWRCB), THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB), THE DEPARTMENT OF PUBLIC HEALTH (DPH), AND THE CITY OF ONTARIO RECYCLED WATER USE ORDINANCE NO. 2689 AND UNIFORM PLUMBING CODE.
- DESIGN OF THE RECYCLED WATER SYSTEM SHALL BE SEPARATE AND INDEPENDENT OF ANY POTABLE WATER SYSTEM. CROSS CONNECTIONS BETWEEN POTABLE WATER SYSTEMS AND RECYCLED WATER SYSTEMS ARE PROHIBITED.
- RECYCLED WATER PIPING SHALL BE PURPLE PVC MANUFACTURED FOR RECYCLED WATER SYSTEMS
- IDENTIFICATIONS SHALL APPEAR CONTINUOUSLY ON TWO SIDES OF THE PURPLE PVC PIPE INCLUDING:
 - NOTE "CAUTION RECYCLED WATER - DO NOT DRINK" AND "AVISA AGUA IMPURA - NO TOMAR"
 - NOMINAL PIPE SIZE.
 - PVC-1120
 - PRESSURE RATING IN POUNDS PER SQUARE INCH AT 73 DEGREES
 - ASTM DESIGNATIONS; 1785,2241,2672,3139.
- ALL RECYCLED WATER VALVES, CONTROLLERS AND ALL APPURTENANCES SHALL HAVE IDENTIFICATION TAGS.
 - WEATHERPROOF PLASTIC
 - 3"x4" PURPLE COLORED TAGS
 - NOTE "RECYCLED WATER DO NOT DRINK AVISO AGUA IMPURA NO TOMAR" ON ONE SIDE AND VALVE NUMBER ON THE OTHER SIDE.
 - IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR.
- CONTROLLER SHALL DISPLAY A PURPLE STICKER STATING "ATTENTION CONTROLLER UNIT FOR RECYCLED WATER" IN ENGLISH AND IN SPANISH WHEN SYSTEM IS CURRENTLY RUNNING WITH RECYCLED WATER.
- PIPE UNDER STREETS SHALL BE IDENTIFIED WITH MARKING TAPE INSTALLED 12" BELOW THE SURFACE EXTENDING 12" BEYOND THE CURB ON EACH SIDE IDENTIFYING THE TYPE OF LINE WITH APWA STANDARD "CAUTION RECYCLED WATERLINE BURIED BELOW" IN PURPLE. SLEEVES SHALL BE SCHEDULE 40 PVC, TWO TIMES THE DIAMETER OF THE PIPE BEING SLEEVED.
- ALL NEW COMMON AREAS WHERE RECYCLED WATER IS USED AND ARE ACCESSIBLE TO THE GENERAL PUBLIC SHALL BE POSTED WITH CONSPICUOUS SIGNS, WHITE LETTERING ON PURPLE BACKGROUND; COLOR PANTONE 512.
 - AT MAJOR VISIBLE LOCATIONS, INCLUDING AT ALL PROPERTY ENTRANCES AND OUTDOOR DINING AREAS, SIGNS NO LESS THAN 12 INCHES HIGH BY 18 INCHES WIDE STATING, "FOR WATER CONSERVATION THIS PROPERTY IS IRRIGATED WITH RECYCLED WATER. DO NOT DRINK". IN ENGLISH AND IN SPANISH.
 - EACH SIGN SHALL ALSO DISPLAY AN INTERNATIONAL SYMBOL CONVEYING THE SAME WARNING.
- ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN 4 FEET (4") MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING.
 - WHERE RECYCLED AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSSES, THE RECYCLED WATER PIPING SHALL BE INSTALLED BELOW THE POTABLE WATER PIPING, IN A SCHEDULE 40 PURPLE PVC SLEEVE WHICH EXTENDS A MINIMUM OF 5 FEET ON EITHER SIDE OF THE POTABLE WATER PIPING.
 - PROVIDE A MINIMUM VERTICAL CLEARANCE OF 12-INCHES
 - CONVENTIONAL (WHITE) PVC PIPE MAY BE USED FOR SLEEVING MATERIAL IF IT IS TAPED WITH 3-INCH WIDE PURPLE WARNING TAPE WHICH READS "CAUTION RECYCLED WATER"
 - POTABLE AND RECYCLED WATER IRRIGATION LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH.
 - RETROFIT SITES MAY HAVE RECYCLED PIPE INSTALLED ABOVE POTABLE WATER PIPE BUT MUST BE SLEEVED AND MUST MEET ALL OTHER REQUIREMENTS.
- ALL RECYCLED WATER SYSTEMS SHALL HAVE A NORMALLY OFF MASTER VALVE.
- ON-SITE RECYCLED WATER IRRIGATION SYSTEMS SHALL BE DESIGNED TO PROVIDE A PHYSICAL SEPARATION BETWEEN ADJACENT AREAS IRRIGATED WITH POTABLE WATER.
 - THE MEANS OF SEPARATION SHALL BE PROVIDED BY A WALL OR FENCE OR A DISTANCE OF FOUR FEET (4") WITH A CENTER MOW CURB (2" ON EACH SIDE OF MOW CURB FOR SPRAY IRRIGATION, 12" EACH SIDE IF DRIP IRRIGATION), OR OTHER APPROVED MEANS.
 - WHERE A PHYSICAL SEPARATION IS USED, IT SHALL BE SHOWN ON THE LANDSCAPE IRRIGATION PLANS.
- ADJUST SPRAY HEADS TO ELIMINATE OVERSPRAY AND RUNOFF.
 - APPROPRIATE SPRINKLERS, BUBBLERS, EMITTERS, ROTORS, ETC., SHALL BE USED TO CONFINED THE DISCHARGE TO THE APPROVED USE AREAS.
 - MODIFY SPRAY PATTERNS THAT DISCHARGE ONTO OBSTRUCTIONS THAT TEND TO CONCENTRATE WATER RESULTING IN PONDING AND/OR RUNOFF.
- DRINKING FOUNTAINS AND DINING AREAS SHALL BE DESIGNED TO BE PROTECTED FROM THE SPRAY OF RECYCLED WATER.
- LANDSCAPE IRRIGATION WITHIN POOL AREA ENCLOSURES SHALL BE DESIGNED FOR POTABLE WATER.
- HOSE BIBBS SHALL NOT BE INCLUDED IN THE DESIGN OF RECYCLED WATER SYSTEMS.
 - QUICK COUPLERS USED FOR RECYCLED WATER SHALL BE AOME THREAD. IF POTABLE IRRIGATION IS USED ON SAME PROPERTY, POTABLE QUICK COUPLERS SHALL BE THE STANDARD QUICK COUPLER ATTACHMENT AND NOT AOME THREAD
 - A QUICK COUPLER SHALL BE INSTALLED IN A VALVE BOX AFTER THE WATER METER ON RIGID PIPE PRIOR TO THE MASTER VALVE OR PRESSURE REDUCING VALVE FOR PURPOSES OF TESTING THE SYSTEM.
- THE IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE BETWEEN THE HOURS OF 9 P.M. AND 6 A.M.
- IRRIGATION BACKFLOW DEVICES ON POTABLE WATER FOR FUTURE RECYCLED WATER SHALL BE PAINTED GREEN WITH A PURPLE RECYCLED WATER TAG ATTACHED THAT STATES "FUTURE RECYCLED WATER".
- IRRIGATION SYSTEMS SHALL BE SERVED BY ONLY ONE WATER METER EACH.
- RECORD DRAWINGS FOR CITY OF ONTARIO OWNED OR MAINTAINED SYSTEMS SHALL BE PREPARED AND PROVIDED TO THE CITY OF ONTARIO, ENGINEERING DEPARTMENT AND SHALL SHOW ALL CHANGES IN THE WORK CONSTITUTING DEPARTURES FROM THE ORIGINAL RECYCLED WATER IRRIGATION OR IMPROVEMENT PLANS INCLUDING THOSE INVOLVING BOTH PRESSURE AND NON-PRESSURE LINE AND APPURTENANCES. ALL DESIGN CHANGES SHALL BE APPROVED BY THE CITY ON THE RECYCLED WATER IRRIGATION PLANS BEFORE IMPLEMENTING THE CHANGE DURING CONSTRUCTION. FAILURE TO RECEIVE PRIOR APPROVAL WILL RESULT IN REPEATING THE WORK OR TERMINATION OF SERVICES.
- AN INSPECTION OF THE ON-SITE SYSTEM BY THE CITY IS REQUIRED TO ENSURE THAT OVERSPRAY AND RUNOFF IS IN COMPLIANCE WITH THE CITY'S RECYCLED WATER USE ORDINANCE. THE LANDSCAPE CONTRACTOR, OWNER OR DEVELOPER SHALL CONTACT THE CITY AND ARRANGE FOR INSPECTIONS.
- IRRIGATION MAINLINE PIPING INSPECTION SHALL BE SCHEDULED PRIOR TO BACKFILLING TRENCHES. CALL FOR UTILITIES DEPARTMENT INSPECTION 48 HRS IN ADVANCE AT (909) 395-2669.
- LANDSCAPE AND IRRIGATION INSPECTION SHALL BE SCHEDULED WHEN INSTALLATION IS COMPLETE. CONTACT THE LANDSCAPE PLANNING DIVISION FOR INSPECTION 48 HRS IN ADVANCE AT LANDSCAPEPLANCHECK@ONTARIOCA.GOV.
- THE LANDSCAPE CONTRACTOR SHALL BE IN ATTENDANCE FOR THE TEST AND HAVE PERSONS CAPABLE OF MAKING SYSTEM ADJUSTMENTS. THE OWNER/DEVELOPER WILL BE NOTIFIED IN WRITING OF ANY CHANGES REQUIRED OTHER THAN MINOR CORRECTIONS.
- TO AVOID TERMINATION OF SERVICE, THE MODIFICATIONS SHALL BE MADE IN A TIMELY MANNER AND ARE THE RESPONSIBILITY OF THE OWNER OR DEVELOPER TO PAY ALL COSTS ASSOCIATED WITH SUCH MODIFICATIONS.
- FAILURE TO COMPLY WITH ANY OR ALL OF THE ABOVE GUIDELINES WILL PLACE THE SYSTEM IN VIOLATION OF THE CITY OF ONTARIO RECYCLED WATER USE ORDINANCE, AND WILL RESULT IN TERMINATION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE MEASURES HAVE BEEN TAKEN.

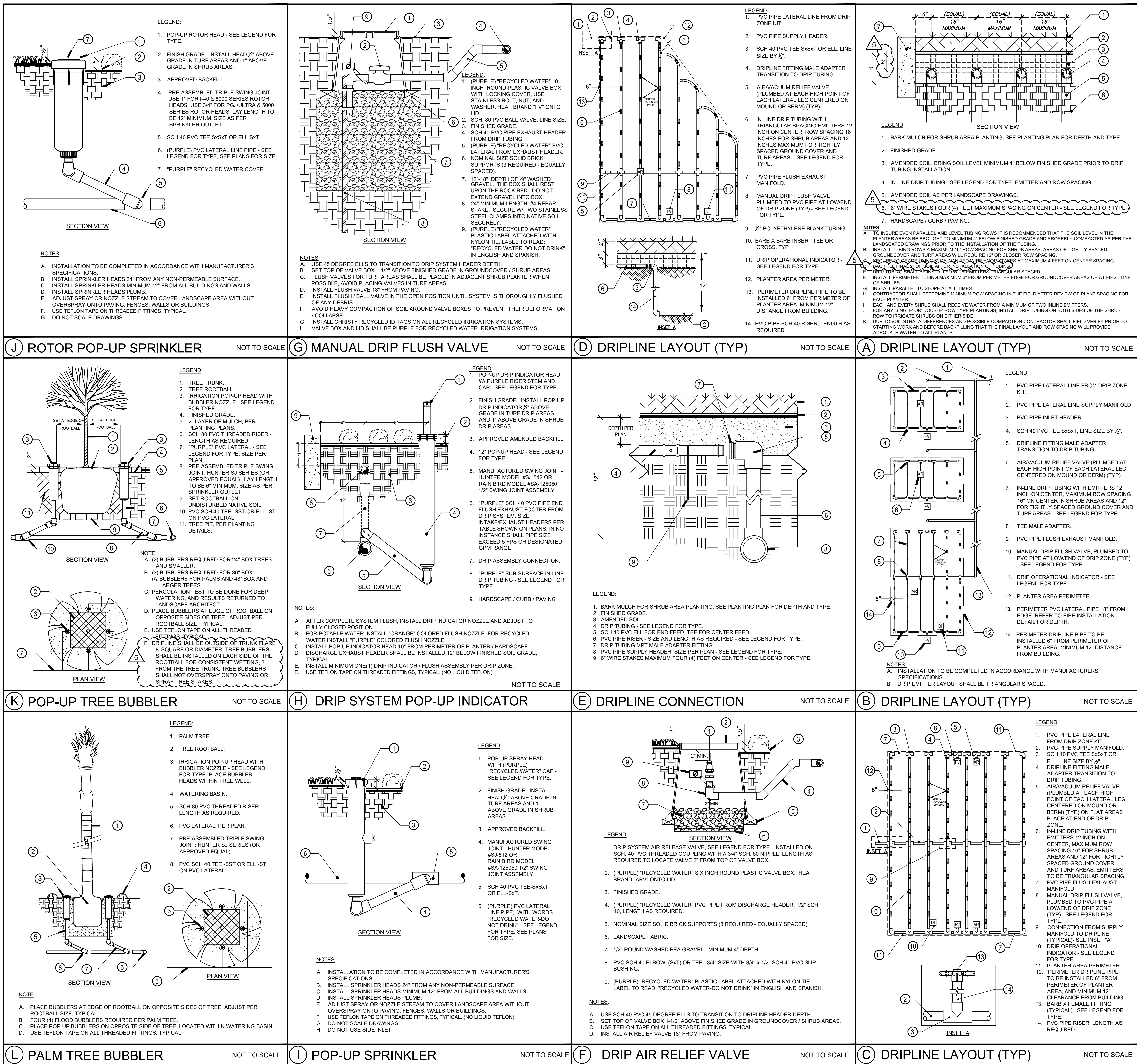
REVISED 01/20/21

AS-BUILT NOTE:

AS-BUILT RECORD DRAWINGS WERE NOT AVAILABLE AT TIME OF SYSTEM DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXISTING IRRIGATION SYSTEM AS-BUILTS FROM OWNER PRIOR TO COMMENCING WORK. CONTRACTOR SHALL CONFIRM ALL CONNECTION POINTS AND EXISTING IRRIGATION SYSTEMS AFFECTED IN FIELD WITH OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PROPOSED IRRIGATION SYSTEM CONNECTION POINT AND CONTROLLER LOCATION FOR APPROVAL BY OWNERS AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCING WORK. ALL LABOR AND MATERIALS REQUIRED TO IRRIGATE AREAS WITHIN THE LIMITS OF WORK AND TO ADJUST AREAS ADJACENT TO THE LIMITS OF WORK SHALL BE INCLUDED AS PART OF THIS CONTRACT. NO ADDITIONAL COSTS WILL BE ALLOWED FOR THE PROPOSED IRRIGATION IMPROVEMENTS OR ADJUSTMENT OF THE EXISTING ADJACENT IRRIGATION SYSTEMS.

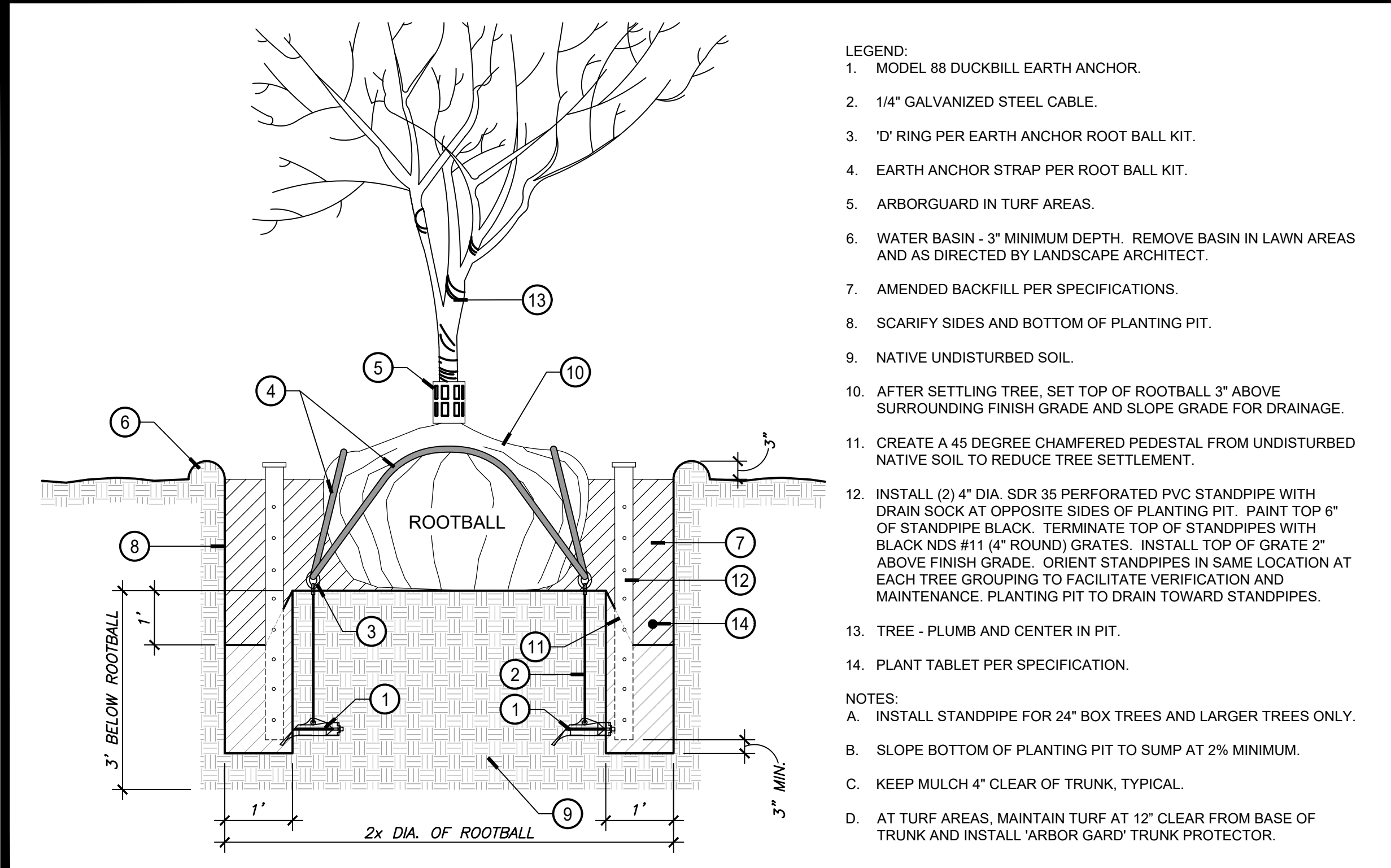
REVISIONS	DATE
1ST BUILDING SUBMITTAL	09/19/20
PC RESUBMITTAL	02/27/21
2ND PC RESUBMITTAL	06/29/21
PC RESUBMITTAL	07/27/21
BID SET	07/27/21
BID ADDENDUM 05	09/17/21

JOB NO.:	2024.0
DRAWN BY:	RCA+
DATE:	09/17/2

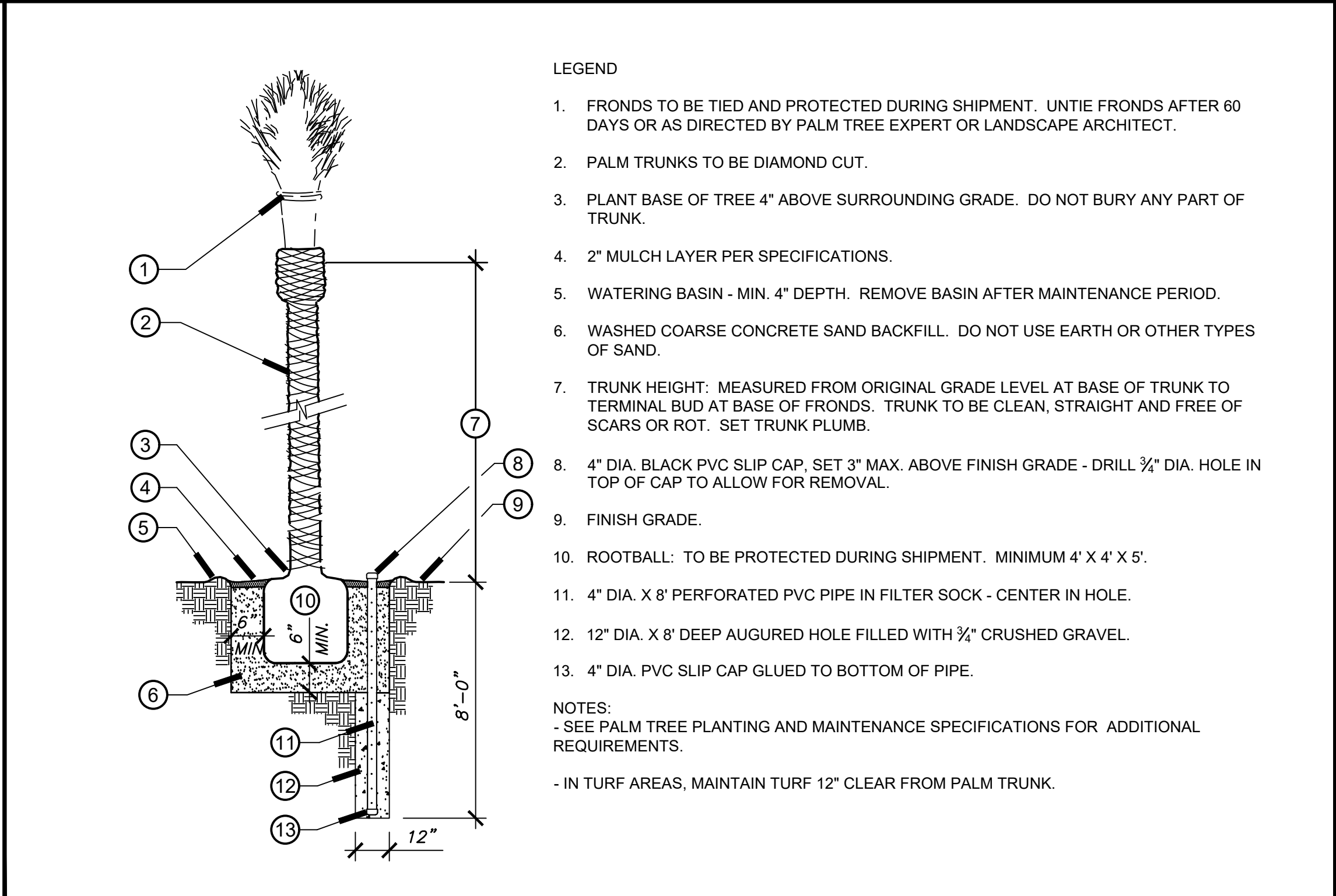


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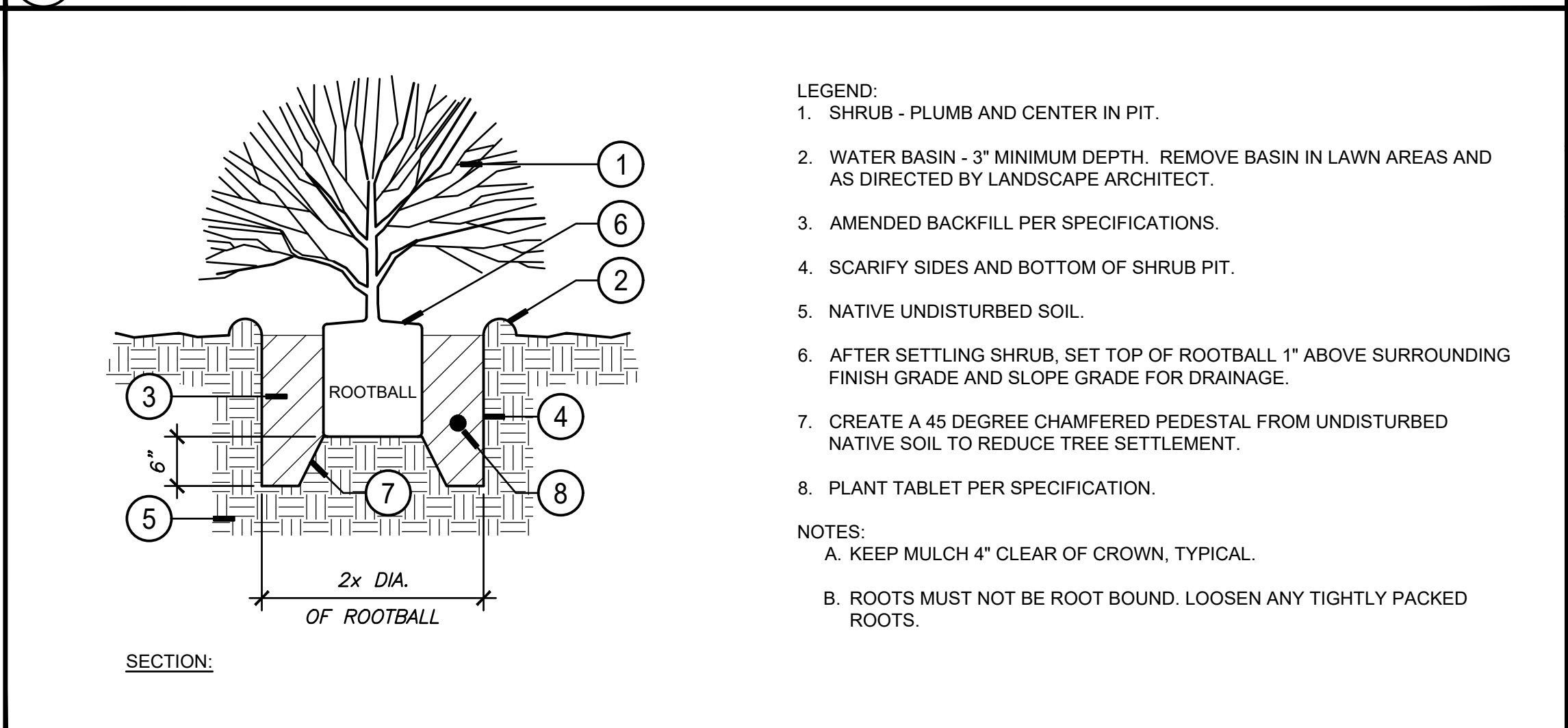




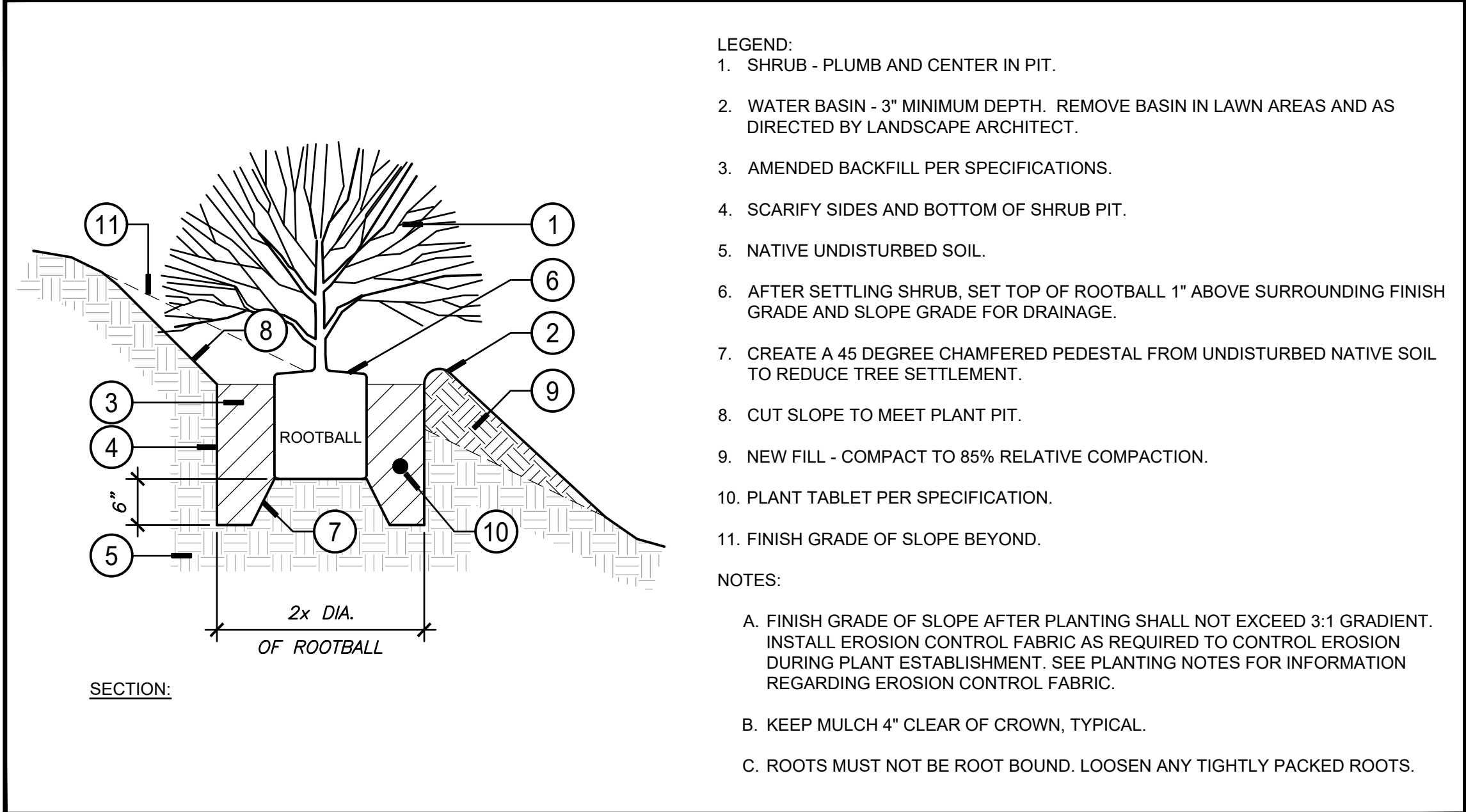
(H) EARTH ANCHOR TREE PLANTING (36" BOX SIZE AND ABOVE) NOT TO SCALE



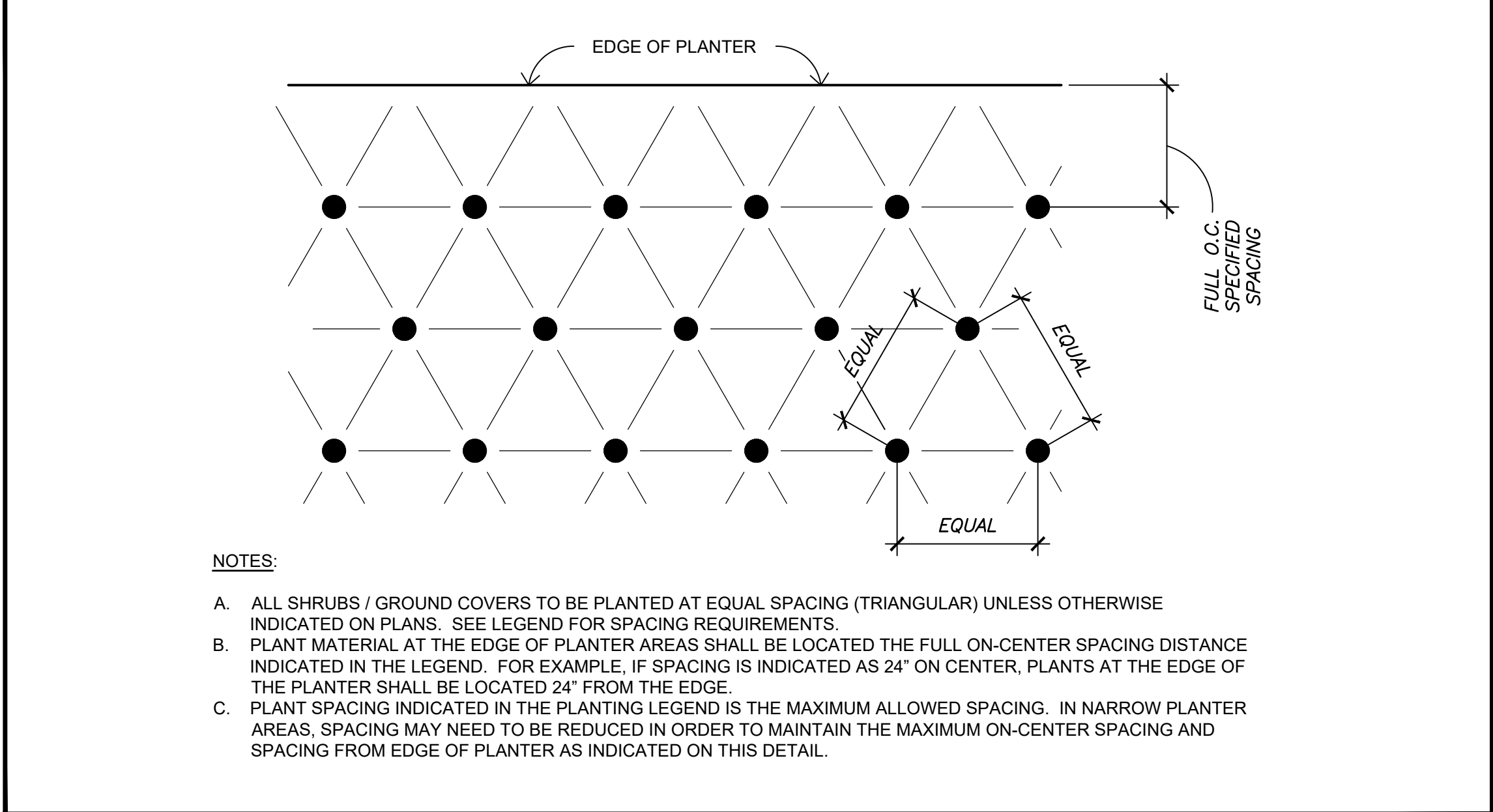
(D) DATE PALM PLANTING NOT TO SCALE



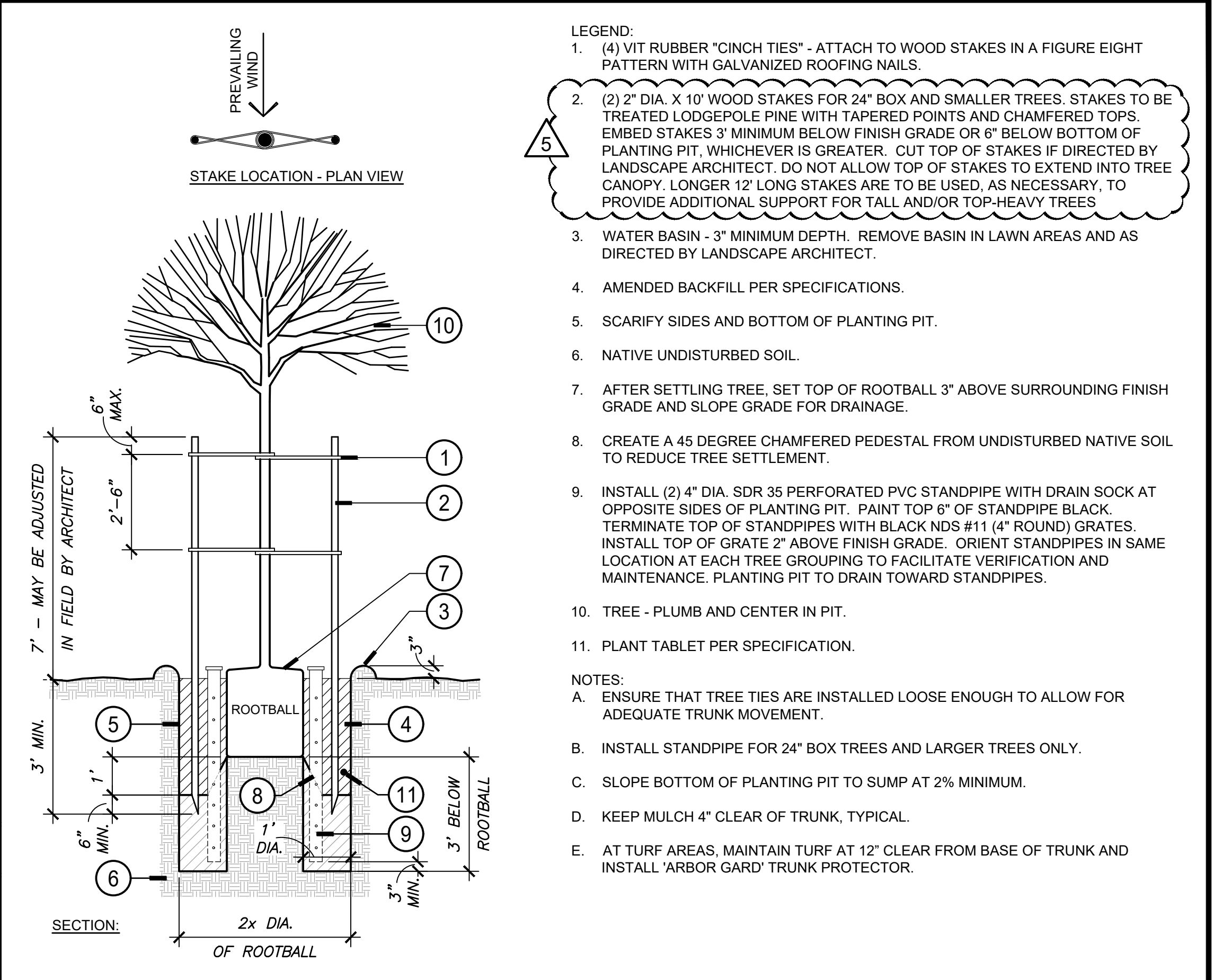
(E) SHRUB PLANTING SCALE: 3/4" = 1'-0"



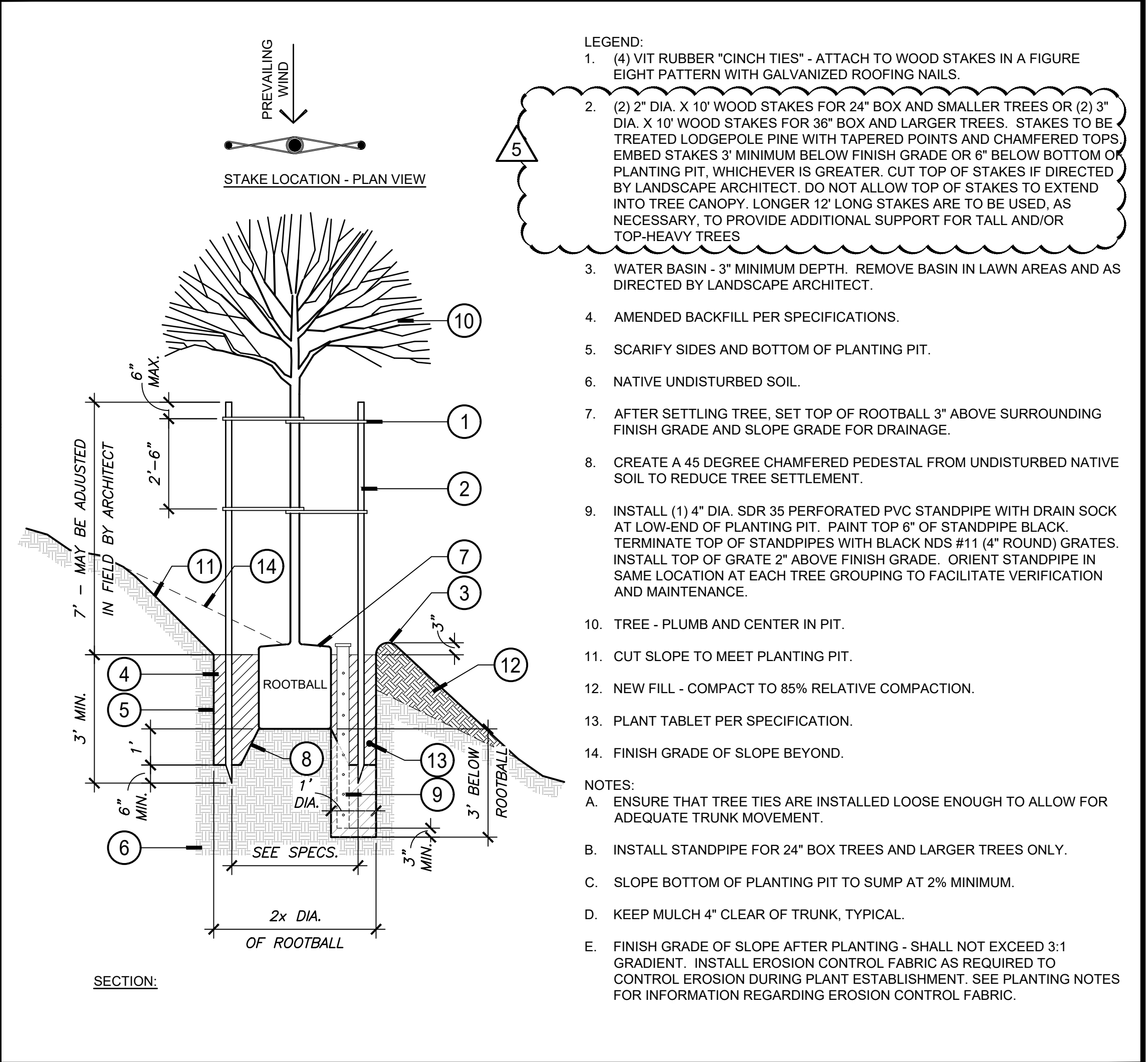
(F) SHRUB PLANTING ON SLOPE SCALE: 3/4" = 1'-0"



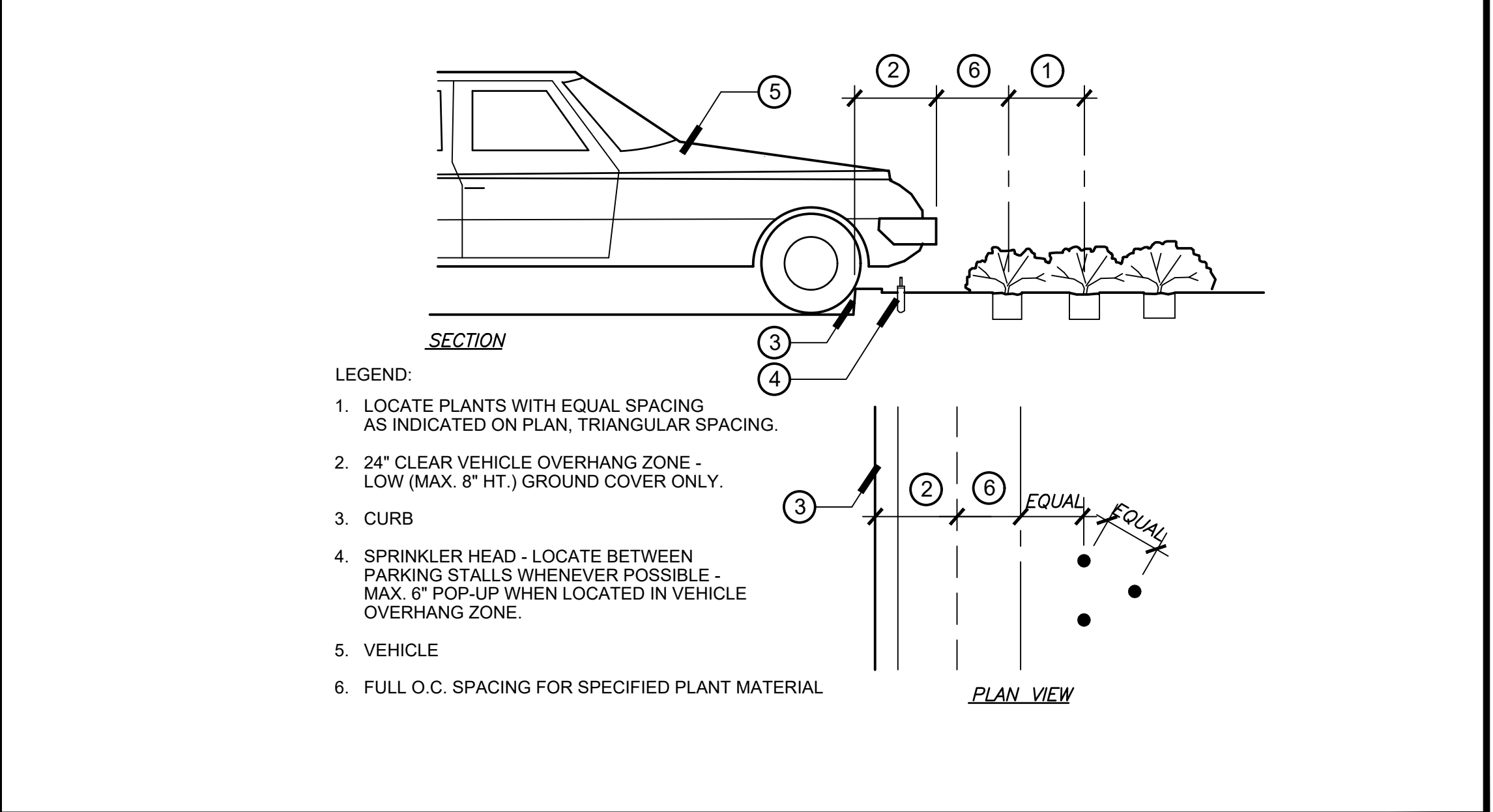
(G) SHRUB AND GROUNDCOVER SPACING SCALE: 3/4" = 1'-0"



(A) TREE PLANTING AND STAKING (24" BOX SIZE AND BELOW) SCALE: 3/8" = 1'-0"



(B) TREE PLANTING AND STAKING ON SLOPE SCALE: 3/8" = 1'-0"



(C) PLANTING AT PARKING EDGE NOT TO SCALE

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REVISIONS	DATE
1ST BUILDING SUBMITTAL	09/19/25
PC RESUBMITTAL	02/27/26
2ND PC RESUBMITTAL	06/29/26
PC RESUBMITTAL	07/27/26
BID SET	07/27/26
BID ADDENDUM 05	09/17/26

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REVISIONS DATE

1ST BUILDING SUBMITTAL 09/19/25

PC RESUBMITTAL 02/27/26

2ND PC RESUBMITTAL 05/11/26

BID ADDENDUM 5 09/17/26

JOB NO.: 2024.01

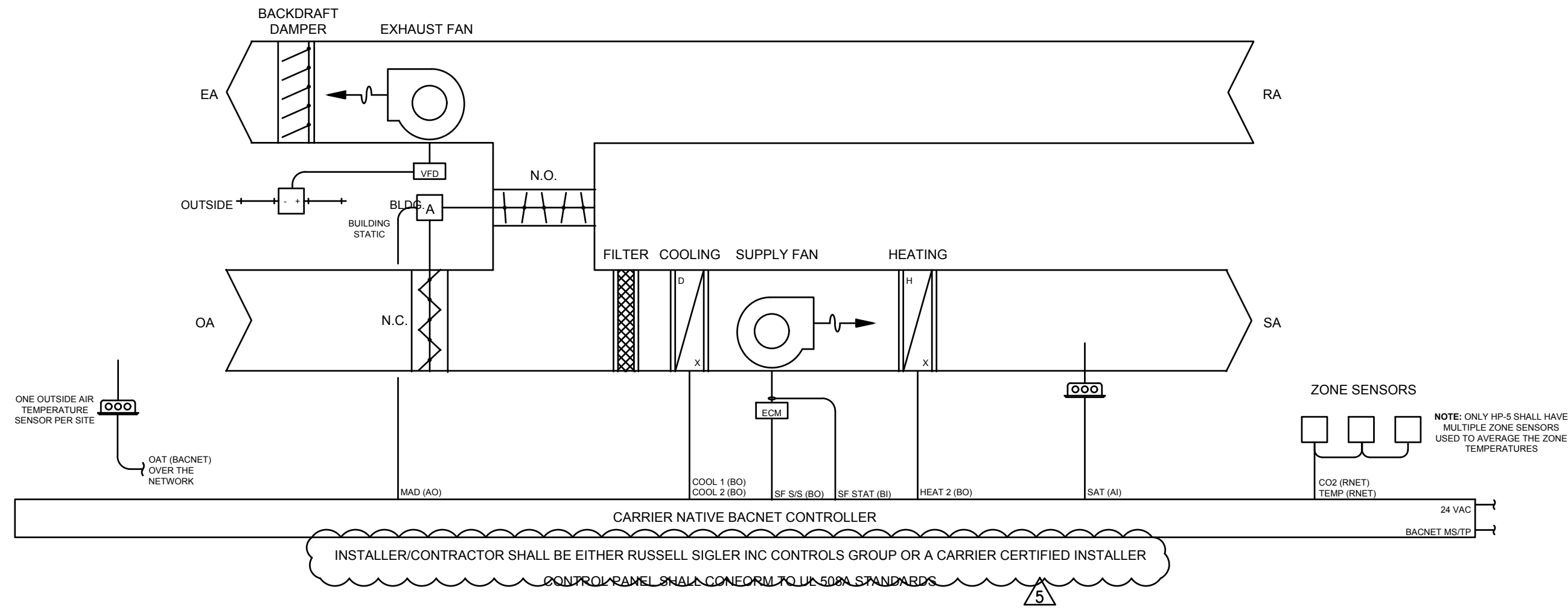
DRAWN BY: RCA+A

DATE: 05-11-2026

TITLE: MECHANICAL CONTROLS

SHEET:

M5.1



PACKAGE HEAT PUMP CONTROLLER

INDOOR FAN
THE FAN OPERATES AT A VARIABLE SPEED TO MEET THE LOAD CONDITIONS AND SAT SAFETY REQUIREMENTS TO PROVIDE MAXIMUM ENERGY SAVINGS BY MINIMIZING FAN HORSEPOWER CONSUMPTION. FAN SPEED IS NOT CONTROLLED BY STATIC PRESSURE.

HEATING MODE
WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

COOLING MODE
WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

ECONOMIZER
ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS BELOW SPACE TEMPERATURE AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

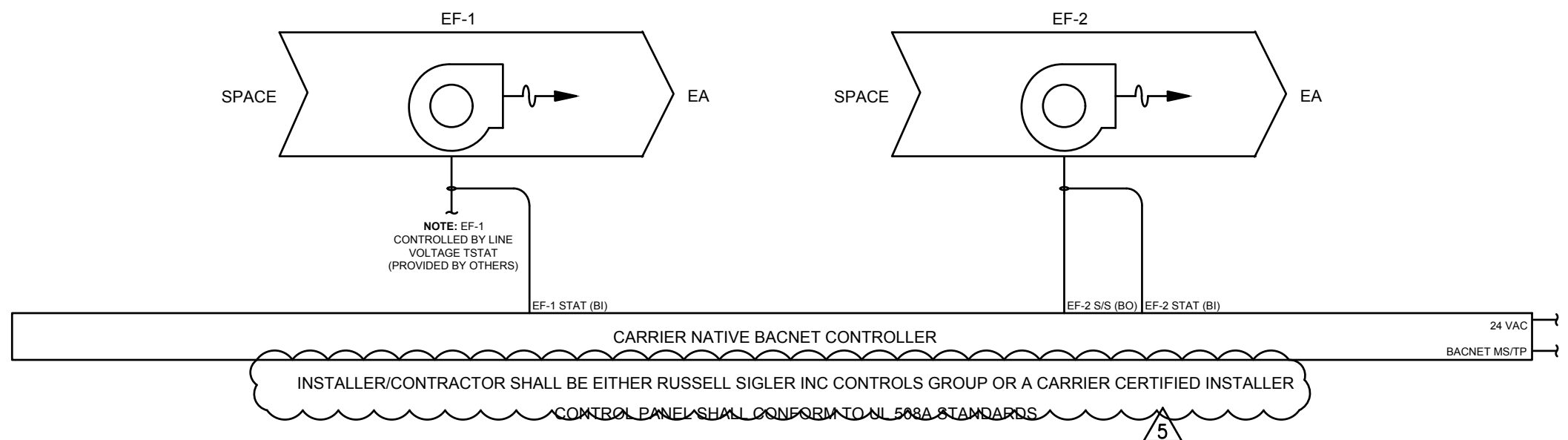
CO2 CONTROL
UNIT SHALL MONITOR SPACE CO2 DURING WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT, ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION.

POWER EXHAUST
THE EXHAUST FAN SHALL MODULATE TO MAINTAIN THE ROOM PRESSURE SETPOINT (AS DETERMINED BY AIR BALANCER). NOT CONTROLLED THROUGH EMS.

PACKAGED HEAT PUMP CONTROL DETAIL

SCALE
NONE

3



CONTROL PANEL CONTROLLER

EXHAUST FAN

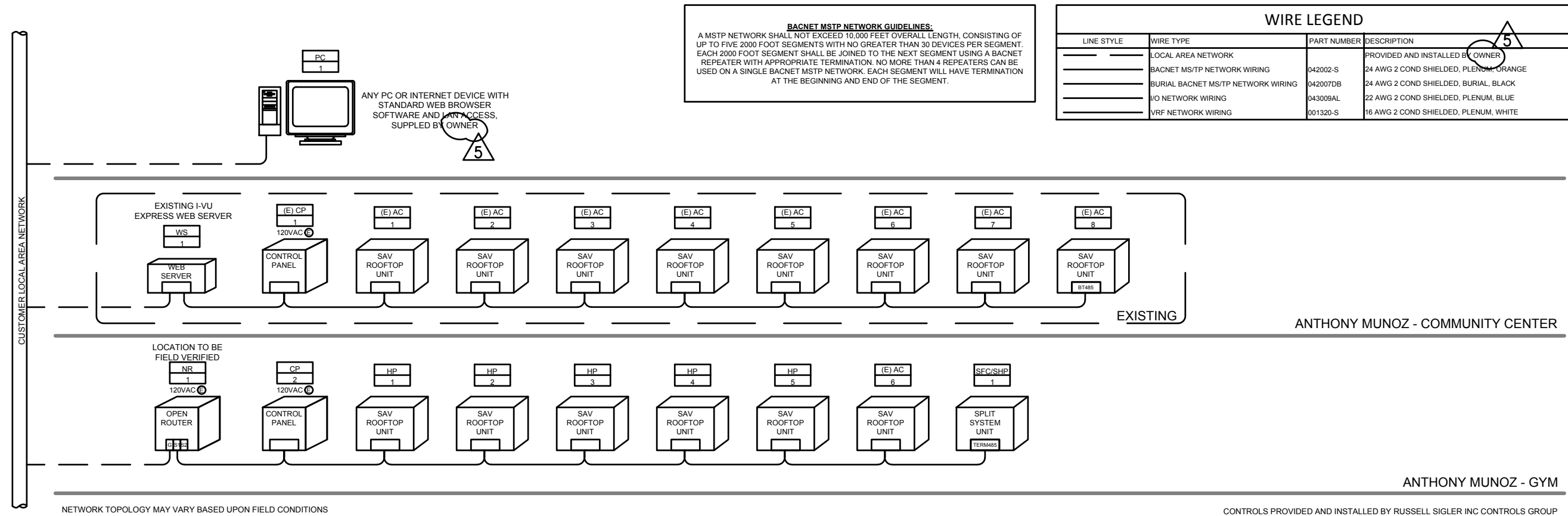
EF-1 SHALL BE CONTROLLED BY A LINE VOLTAGE THERMOSTAT TO MAINTAIN ROOM CONDITIONS.
EXHAUST FAN STATUS WILL BE MONITORED THROUGH A CURRENT SENSING SWITCH.

EF-2 SHALL RUN BASED ON AN OCCUPIED TIME SCHEDULE (CONFIGURABLE)
EXHAUST FAN STATUS WILL BE MONITORED THROUGH A CURRENT SENSING SWITCH. IF THE CURRENT SWITCH DOES NOT DETECT FAN STATUS AFTER A START COMMAND HAS BEEN SENT TO THE ASSOCIATED EXHAUST FAN, AN ALARM WILL BE GENERATED TO THE I-VU WEB SERVER.

CONTROL PANEL CONTROL DETAIL

SCALE
NONE

2



NOTE: NETWORK DROP BY ELECTRICAL, SWITCH PORT BY CONTROLS CONTRACTOR, IP ADDRESS AND FIRE WALL ACCESS, CERTIFICATES, AND REMOTE ACCESS APPROVAL BY OWNER.

BACS RISER DIAGRAM

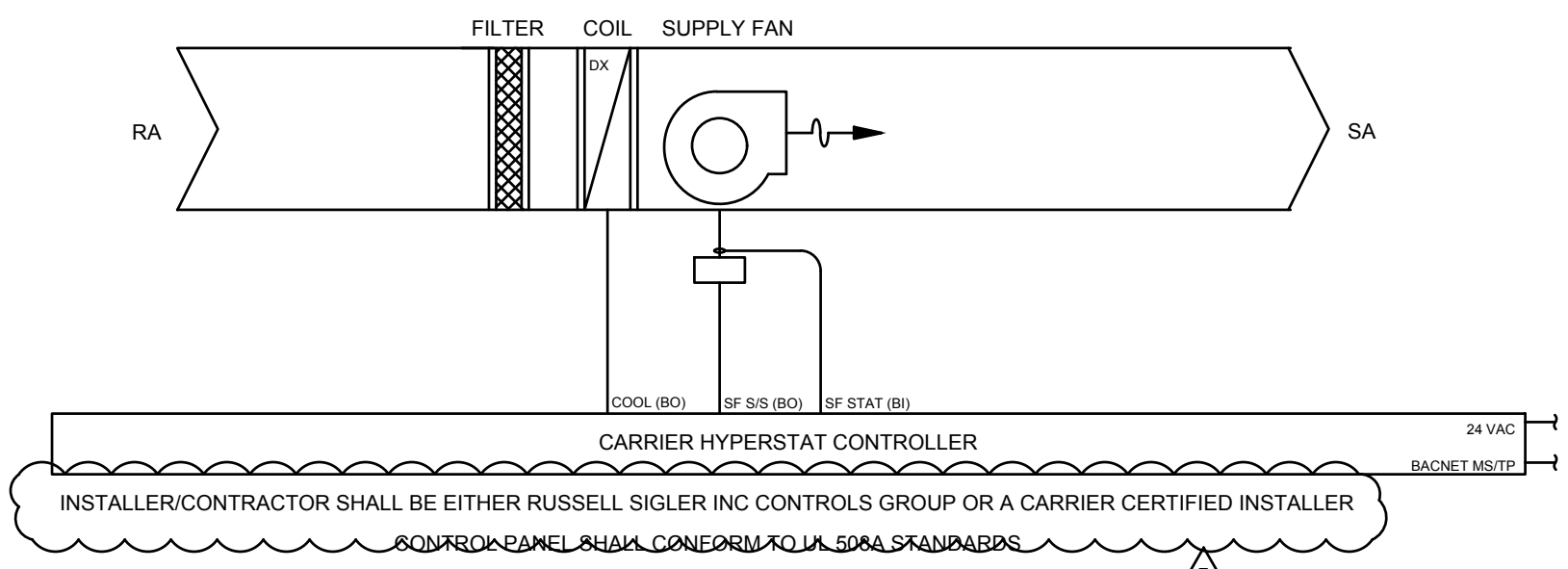
SCALE
NONE

1

SPLIT SYSTEM CONTROL DETAIL

SCALE
NONE

4



SPLIT SYSTEM

INDOOR FAN

DURING OCCUPIED PERIODS, FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT ONE SPEED ONLY AND PROVIDES ON/OFF OPERATION.

HEATING MODE
DISABLED

COOLING MODE
WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.