
SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT

PROJECT: 01-25 SSFUSD Spruce ES: Security Gates

BID ADDENDUM NO. 1

PROJECT:

SPRUCE ELEMENTARY SCHOOL SECURITY GATES

B Street, South

OWNER:

South San Francisco Unified School District
398 B Street,
South San Francisco , CA 94080

DSA FILE NO.: 41-28

DSA APP. NO.: 01-122220

All prospective bidders are hereby notified that the plans and specifications for the project have been modified as outlined below. This Addendum must be attached to and considered part of the plans and specifications. Bidders are required to acknowledge receipt of this Addendum on the Bid Form. In the event of any discrepancies with previous addenda or communications, this Addendum shall take precedence. It is the bidder's responsibility to inform all subcontractors, both those solicited for bids and those from whom bids are accepted, of the changes included in this Addendum.

Addendum No. 1 provides the following:

UPDATED DOCUMENTS

1. ITEM NO. 01

Bid document Item 04_Spruce ES-Security Gates_DWG_250528 previously uploaded did not have the DSA stamp on the drawing sheets. A new Item 04b_Spruce ES-Security Gates_DWG_250602 replaces the older drawing set with the final set entirely. Note that there are no changes in the drawing documents other than the DSA stamp. See attachment 1

2. ITEM NO. 02

Replace the second page of Bid document Item 05_Spruce ES-Security Gates Technical SPC_250528 (1) with a new page that include the DSA stamp. All other things remain the same. See attachment 2

3. ITEM NO. 03

Include the Bid document Item DSA_103_V2 that contains the DSA stamp.

RFI RESPONSES

1. ITEM NO. 01

RFI # 01, Electrical trenching with lean concrete & proposed conduit path from Zone 4 Construction:

Question(s):

- a) "Please confirm that we will be required to backfill electrical trenching with lean concrete per details 4, 5, & 6 on Sheet A7.10 and Detail 2 on Sheet E1.01."
- b) Please confirm that the proposed conduit path is acceptable" (See attachment 4).

Response(s), by dsk architects:

- a- Confirmed.
- b- Not Confirmed as the (E) wall-mounted rack might not have the size and structural capacity to hold the Aiphone system's specified equipment.

ATTACHMENTS:

- 1: 04b_Spruce ES-Security Gates_DWG_250602 with DSA stamp
- 2: 05b: Excerpt Second Page_Spruce ES-Security Gates_Technical SPC_250528 (1) with DSA stamp
- 3: DSA_103_V2
- 4: Not Confirmed Proposed Conduit Paths by Zone 4

END OF BID ADDENDUM ITEMS

A.P.	ABOVE FINISH FLOOR	F.F.C.	FIRE EXTINGUISHER CABINET
ACCES.	ACCESS PANEL	F.H.C.	FIRE HOSE CABINET
	ACCESSIBLE	F.H.	FIRE HYDRANT
ACT	ACOUSTIC CEILING TILE	F.R.	FIRE RATED
ACOUS.	ACUSTIC	FIXT.	FIXTURE
ADOT	ADDITIONAL	F.I.M.S.	FLAT HEAD MACHINE (OR METAL) SCREW
ADHES.	ADHESIVE	FLR.	FLOOR
ADJAC.	ADJACENT	F.D.	FLOOR DRAIN
ADJ.	ADJUSTABLE	FLUOR.	FLUORESCENT
ADMIN.	ADMINISTRATION	FT.	FOOT OR FEET
AGGR.	AGGREGATE	FTG.	FOOTING
A/C	AIR CONDITIONING	FDN.	FOUNDATION
A.H.D.	AIR HAND DRYER	FURR.	FURRING
ALT.	ALTERNATIVE OR ALTERNATE	GALV.	GALVANIZED
AL.	ALUMINUM	G.I.	GALVANIZED IRON
A.D.A.	AMERICAN DISABILITIES ACT	GA.	GAUGE
A.B.	ANCHOR BOLT	GEN.	GENERAL
ANOD.	ANODIZED	GL.	GLASS
APPROX.	APPROXIMATE	G.F.R.C.	GLASS FIBER REINFORCED CONCRETE
ARCH.	ARCHITECTURAL	G.B.	GRAB BAR
A.C.	ASPHALT CONCRETE	GND.	GROUND
BSMT.	BASEMENT	GYP.	GYPSUM
B.O.D.	BASIS OF DESIGN	H.R.	HANDRAIL
BM.	BEAM	HDWE	HARDWARE
BTWN.	BETWEEN	HDWD.	HARDWOOD
BITUM.	BITUMINOUS	HDR.	HEADER
BLK.	BLOCK	HVAC	HEATING, VENTILATING, AND AIR CONDITION
BD.	BOARD	HGT. or HT.	HEIGHT
BOJ.	BOLLARD	H.C.	HOLLOW CORE
BOT.	BOTTOM	H.M.	HOLLOW METAL
BLDG.	BUILDING	HORIZ.	HORIZONTAL
B.U.R.	BUILT-UP ROOFING	H.B.	HOSE BIBB
CAB.	CABINET	HR.	HOOR
C.B.	CATCH BASIN	IN.	INCH
CLG.	CEILING	INCL.	INCLUDING
CEM.	CEMENT	INFO.	INFORMATION
C.B.B.	CEMENTITIOUS BACKER BOARD	INSUL.	INSULATION
CTR.	CENTER	INT.	INTERIOR
CER.	CERAMIC	JAN.	JANITOR
C.T.	CERAMIC TILE	JT.	JOINT
CLF.	CHAIN LINK FENCE	KIT.	KITCHEN
CLR.	CLEAR	LAB.	LABORATORY
C.A.	CLEAR ANODIZED	L.B.	LAG BOLT
CLO.	CLOSET	LAM.	LAMINATE
COL.	COLUMN	LAV.	LAVATORY
CONC.	CONCRETE	L.	LONG
C.M.U.	CONCRETE MASONRY UNIT	M.B.	MACHINE BOLT
CONF.	CONFERENCE	MAINT.	MAINTENANCE
CONN.	CONNECTION	M.H.	MANHOLE
CONSTR.	CONSTRUCTION	MFR.	MANUFACTURER
CONT.	CONTINUOUS	MAT.	MATERIAL
C.J.	CONTROL JOINT	MAX.	MAXIMUM
C.G.	CORNER GUARD	MECH.	MECHANICAL
CORR.	CORRIDOR	MEMB.	MEMBRANE
CTSK.	COUNTERSUNK	MTL.	METAL
DEMO.	DEMOLITION	MEZZ.	MEZZANINE
DET(S).	DETAIL(S)	MIN.	MINIMUM
DIA.	DIAMETER	MISC.	MISCELLANEOUS
DIM.	DIMENSION	MTD.	MOUNTED
DISP.	DISPENSER	N.	NEW
DR.	DOOR	NOM.	NOMINAL
D.O.	DOOR OPENING	N.P.S.	NOMINAL PIPE SIZE
DBL.	DOUBLE	N.I.C.	NOT IN CONTRACT
DN.	DOWN	NO.	NUMBER
D.S.	DOWN SPOUT	OFF.	OFFICE
DWG(S).	DRAWING(S)	O.C.	ON CENTER
D.F.	DRINKING FOUNTAIN	O.D.	OUTSIDE DIAMETER
EA.	EACH	OI.	OVER
E.S.	EACH SIDE	O.F.D.	OVERFLOW DRAIN
E.W.	EACH WAY	O.F.S.	OVERFLOW SCUPPER
ELEC.	ELECTRICAL	O.H.	OVERHEAD
ELV.	ELEVATION	OFOI	OWNER FURNISHED OWNER INSTALLED
ELEV.	ELEVATOR	O.S.C.I.	OWNER SUPPLIED, CONTRACTOR INSTALLED
EMER.	EMERGENCY	PTD.	PAINTED
ENCL.	ENCLOSURE	PR.	PAIR
EQ.	EQUAL	PNL.	PANEL
EQUIP.	EQUIPMENT	P.H.	PANIC HARDWARE
EXH.	EXHAUST	P.T.D.	PAPER TOWEL DISPENSER
(E)	EXISTING	P.T.D.R.	PAPER TOWEL DISPENSER & RECEPTACLE
E.D.	EXIT DEVICE	PTN.	PARTITION
EXP.	EXPANSION	P.H.S.	PHILLIPS HEAD SCREW
E.B.	EXPANSION BOLT	P.A.	PLANTING AREA
E.J.	EXPANSION JOINT	PLAS.	PLASTER
EXPO S.	EXPOSED STRUCTURE	P.L.A.M.	PLASTIC LAMINATE
EXT.	EXTERIOR	PL.	PLATE
F.O.	FACE OF	PLYWD.	PLYWOOD
FIN.	FINISH	PVC	POLYVINYL CHLORIDE
F.F.	FINISHED FLOOR	PRECAST	PRECAST
F.A.	FIRE ALARM	PREFAB.	PREFABRICATED
F.E.	FIRE EXTINGUISHER	PREP.	PREPARATION

SYMBOLS

MATERIALS LEGEND

KEYNOTE REFERENCE CATEGORIES

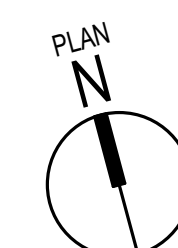
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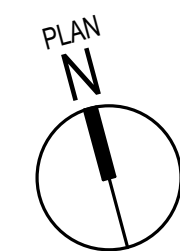
A0.01



A0.02

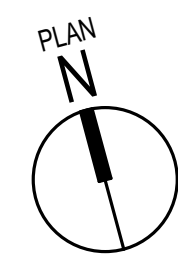


A0.03



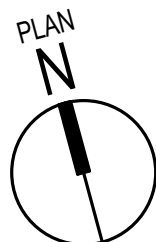
A1.00

Plotted on 5/21/2025 12:01:47 AM Autodesk Docs://24045 Spruce ES Security Gates/24045 Spruce ES Security Gates.rvt
 dsk architects Copyright ©. If this sheet is not 30"x42" it is a reduced print - scale accordingly.



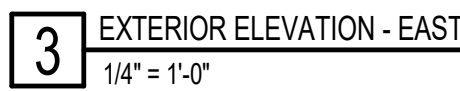
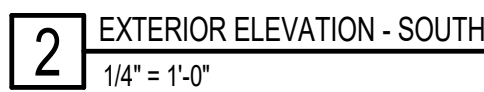
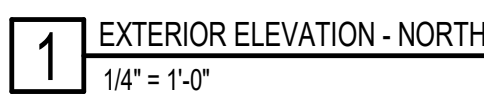
1 ENLARGED PARTIAL CAMPUS SITE PLAN - NEW
3/8" = 1'-0"

A1.10



CEILING ELEVATION TAG
 2'X4' SUSPENDED ACT SYSTEM
 2'X4' SUSPENDED ACT SYSTEM
 GYPSUM BOARD CEILING
 MECHANICAL FIXTURES
 SEE ELECTRICAL DRAWINGS
 LIGHT FIXTURES
 SEE ELECTRICAL DRAWINGS

1. CEILING HEIGHT IS +8'-0" U.O.N.
2. LIGHT FIXTURES LOCATED ABOVE FINISH FLOOR HEIGHT AT +8'-0" CLEAR, U.O.N.



A3.01

AGENCY STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-122220 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 06/2/2025



SPRUCE
ELEMENTARY SCHOOL

dsk
architects

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t. 310.254.2263 / f. 415.839.7584

[illegible]

STEEL ROLL GATE DETAILS

A4.01

[illegible]

TOP VIEW

348.00" [348"]
344.00" [344"]
257.50" [257.5"]
171.00" [171"]
84.50" [84.5"]

2" SQ X 11 GA TOP RAIL
CL

ELEVATION VIEW

74.63" [74 5/8"]
70.63" [70 5/8"]
68.63" [68 5/8"]
108.86" [108 7/8"]
14.75 [14 3/4"]
18.00 [18"]
21.25 [21 1/4"]

DETAIL A

SIDE VIEW

14.75 [14 3/4"]
18.00 [18"]
21.25 [21 1/4"]

1

2

3

SIDE
VIEW

UNLESS NOTED OTHERWISE DIMENSIONS ARE IN INCHES DECIMALS ARE TO 0.005 ANGLES ARE TO 1°		THIS DRAWING IS THE PROPERTY OF AMERISTAR® AND SHALL NOT BE REPRODUCED OR USED IN WHOLE OR IN PART FOR THE MAKING OF DRAWINGS, OR PARTS OR IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF AMERISTAR®. IT IS ACCEPTING THIS DRAWING, THE REQUESTOR AGREES TO KEEP THE INFORMATION CONTAINED CONFIDENTIAL.				1555 N. Mimco Tucson, AZ 85716 (520) 222-1000 www.ameristarfire.com	
REVISION HISTORY							
REV	ENGR	AUTHOR	DATE	DESCRIPTION			
A		RM	01/26/14	INITIAL RELEASE			
B	02/25/14	LJM	10/27/14	PWT WAS DESCRIPTION AND DUTY LENGTH			
C	12/31/16	LJM	02/26/18	TOP RAIL CHANGE TO 11GA REMOVED GA CALLOUT IN DRN			
DRAWING NO.					2M20T024Z-F		
TITLE					PASSPORT-II STEEL ROLL GATE - FRAME		
DATE					02/24/16		
BY					LJM		
SHEET					4 of 4		
REV					C		



NOTE:
SEE DETAIL 3/A4.01

FRONT VIEW

Overall width: 348.00" [348"]

Overall height: 78.00" [78"]

Left post height: 36.00" [36"]
RECOMMENDED depth may vary by location

Right post height: 36.00" [36"]

Panel height: 4.75" [4.75"] O.C.

Panel width: 3.75" [3.75"] O.C.

Panel depth: 3.38" [3.38"]

Panel spacing: 24.00" OPENING

Callouts: 1, 2, 3, 6, 7

SIDE VIEW

Callouts: 4 x POST WIDTH, 5

Panel depth: 3.38" [3.38"]

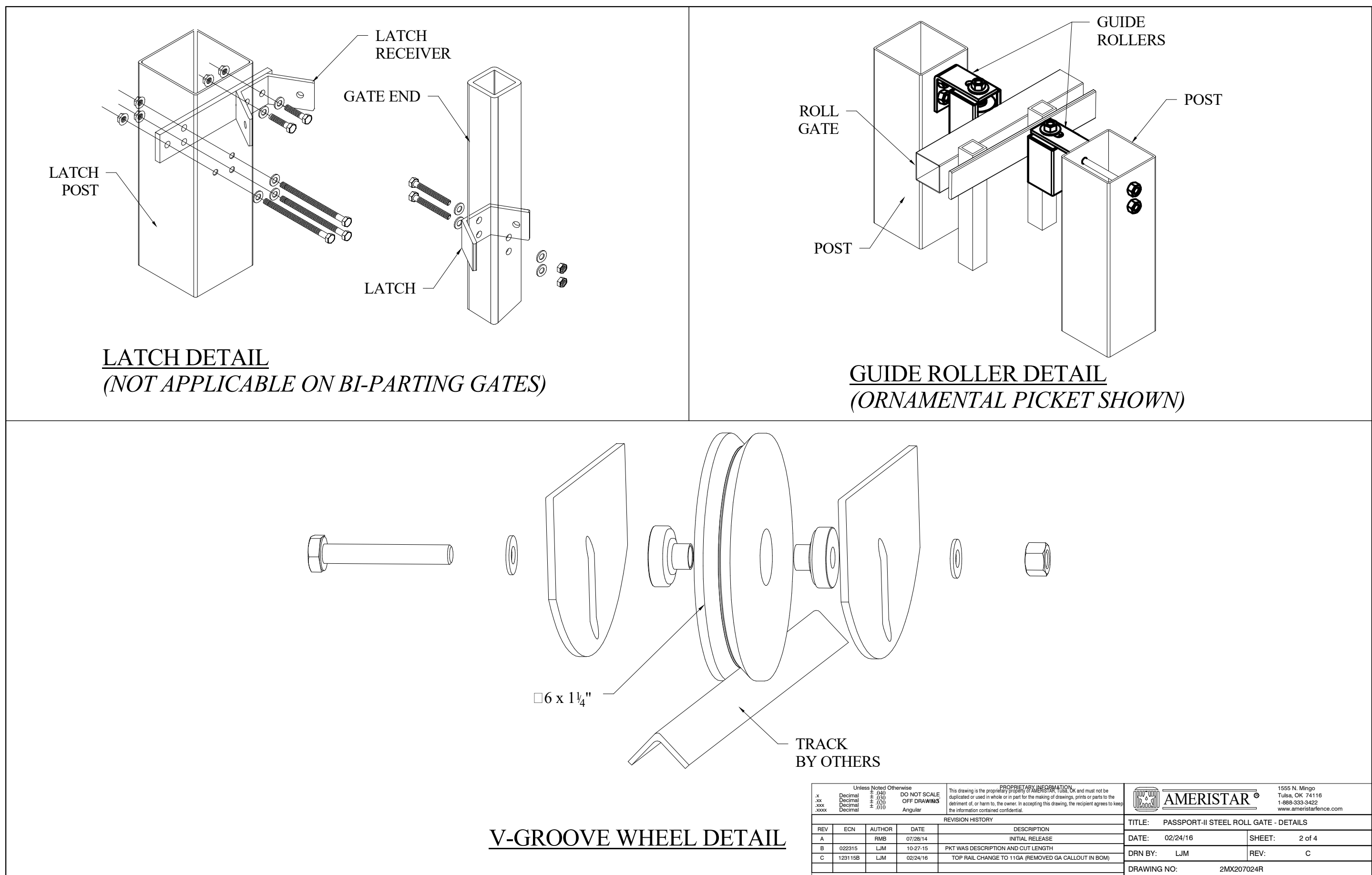
Panel spacing: 24.00" OPENING

Callouts: 3, A7.14

SIDE VIEW

<div style="display: flex; justify-content: space-between;"> <div> <p>UNLESS NOTED OTHERWISE</p> <p>A 1/8" B 3/16" C 1/4" D 5/16" E 3/8" F 1/2" G 5/8" H 3/4" J 7/8" K 1" L 1 1/8" M 1 1/4" N 1 3/8" O 1 1/2" P 1 3/4" Q 1 7/8" R 2" S 2 1/8" T 2 1/4" U 2 3/8" V 2 1/2" W 2 7/8" X 3" Y 3 1/8" Z 3 1/4" AA 3 3/8" AB 3 1/2" AC 3 3/4" AD 3 7/8" AE 4" AF 4 1/8" AG 4 1/4" AH 4 3/8" AI 4 1/2" AJ 4 3/4" AK 4 7/8" AL 5" AM 5 1/8" AN 5 1/4" AO 5 3/8" AP 5 1/2" AQ 5 3/4" AR 5 7/8" AS 6" AT 6 1/8" AU 6 1/4" AV 6 3/8" AW 6 1/2" AX 6 3/4" AY 6 7/8" AZ 7" BA 7 1/8" BB 7 1/4" BC 7 3/8" BD 7 1/2" BE 7 3/4" BF 7 7/8" BG 8" BH 8 1/8" BI 8 1/4" BJ 8 3/8" BK 8 1/2" BL 8 3/4" BM 8 7/8" BN 9" BO 9 1/8" BP 9 1/4" BQ 9 3/8" BR 9 1/2" BS 9 3/4" BT 9 7/8" BU 10" BV 10 1/8" BW 10 1/4" BX 10 3/8" BY 10 1/2" BZ 10 3/4" CA 10 7/8" CB 11" CC 11 1/8" CD 11 1/4" CE 11 3/8" CF 11 1/2" CG 11 3/4" CH 11 7/8" CI 12" CJ 12 1/8" CK 12 1/4" CL 12 3/8" CM 12 1/2" CN 12 3/4" CO 12 7/8" CP 13" CQ 13 1/8" CR 13 1/4" CS 13 3/8" CT 13 1/2" CU 13 3/4" CV 13 7/8" CW 14" CX 14 1/8" CY 14 1/4" CZ 14 3/8" DA 14 1/2" DB 14 3/4" DC 14 7/8" DD 15" DE 15 1/8" DF 15 1/4" DG 15 3/8" DH 15 1/2" DI 15 3/4" DJ 15 7/8" DK 16" DL 16 1/8" DM 16 1/4" DN 16 3/8" DO 16 1/2" DP 16 3/4" DQ 16 7/8" DR 17" DS 17 1/8" DT 17 1/4" DU 17 3/8" DV 17 1/2" DW 17 3/4" DX 17 7/8" DY 18" DZ 18 1/8" EA 18 1/4" EB 18 3/8" EC 18 1/2" ED 18 3/4" EE 18 7/8" EF 19" EG 19 1/8" EH 19 1/4" EI 19 3/8" EJ 19 1/2" EK 19 3/4" EL 19 7/8" EM 20" EN 20 1/8" EO 20 1/4" EP 20 3/8" EQ 20 1/2" ER 20 3/4" ES 20 7/8" ET 21" EU 21 1/8" EV 21 1/4" EW 21 3/8" EX 21 1/2" EY 21 3/4" EZ 21 7/8" FA 22" FB 22 1/8" FC 22 1/4" FD 22 3/8" FE 22 1/2" FF 22 3/4" FG 22 7/8" FH 23" FI 23 1/8" FJ 23 1/4" FK 23 3/8" FL 23 1/2" FM 23 3/4" FN 23 7/8" FO 24" FP 24 1/8" FQ 24 1/4" FR 24 3/8" FS 24 1/2" FT 24 3/4" FU 24 7/8" FV 25" FW 25 1/8" FX 25 1/4" FY 25 3/8" FZ 25 1/2" GA 25 3/4" GB 25 7/8" GC 26" GD 26 1/8" GE 26 1/4" GF 26 3/8" GG 26 1/2" GH 26 3/4" GI 26 7/8" GJ 27" GK 27 1/8" GL 27 1/4" GM 27 3/8" GN 27 1/2" GO 27 3/4" GP 27 7/8" GQ 28" GR 28 1/8" GS 28 1/4" GT 28 3/8" GV 28 1/2" GW 28 3/4" GX 28 7/8" GY 29" GZ 29 1/8" HA 29 1/4" HB 29 3/8" HC 29 1/2" HD 29 3/4" HE 29 7/8" HF 30" HG 30 1/8" HH 30 1/4" HI 30 3/8" HJ 30 1/2" HK 30 3/4" HL 30 7/8" HM 31" HN 31 1/8" HO 31 1/4" HP 31 3/8" HQ 31 1/2" HR 31 3/4" HS 31 7/8" HT 32" HU 32 1/8" HV 32 1/4" HW 32 3/8" HX 32 1/2" HY 32 3/4" HZ 32 7/8" IA 33" IB 33 1/8" IC 33 1/4" ID 33 3/8" IE 33 1/2" IF 33 3/4" IG 33 7/8" IH 34" II 34 1/8" IJ 34 1/4" IK 34 3/8" IL 34 1/2" IM 34 3/4" IN 34 7/8" IO 35" IP 35 1/8" IQ 35 1/4" IR 35 3/8" IS 35 1/2" IT 35 3/4" IU 35 7/8" IV 36" IV 36 1/8" IW 36 1/4" IX 36 3/8" IY 36 1/2" IZ 36 3/4" JA 36 7/8" JB 37" JC 37 1/8" JD 37 1/4" JE 37 3/8" JF 37 1/2" JG 37 3/4" JH 37 7/8" JI 38" JJ 38 1/8" JK 38 1/4" JL 38 3/8" JM 38 1/2" JN 38 3/4" JO 38 7/8" JP 39" JQ 39 1/8" JR 39 1/4" JS 39 3/8" JT 39 1/2" JU 39 3/4" JV 39 7/8" JW 40" JX 40 1/8" JY 40 1/4" JZ 40 3/8" KA 40 1/2" KB 40 3/4" KC 40 7/8" KD 41" KE 41 1/8" KF 41 1/4" KG 41 3/8" KH 41 1/2" KI 41 3/4" KJ 41 7/8" KK 42" KL 42 1/8" KM 42 1/4" KN 42 3/8" KO 42 1/2" KP 42 3/4" KQ 42 7/8" KR 43" KS 43 1/8" KT 43 1/4" KU 43 3/8" KV 43 1/2" KW 43 3/4" KX 43 7/8" KY 44" KZ 44 1/8" LA 44 1/4" LB 44 3/8" LC 44 1/2" LD 44 3/4" LE 44 7/8" LF 45" LG 45 1/8" LH 45 1/4" LI 45 3/8" LJ 45 1/2" LK 45 3/4" LL 45 7/8" LM 46" LN 46 1/8" LO 46 1/4" LP 46 3/8" LQ 46 1/2" LR 46 3/4" LS 46 7/8" LT 47" LU 47 1/8" LV 47 1/4" LW 47 3/8" LX 47 1/2" LY 47 3/4" LZ 47 7/8" MA 48" MB 48 1/8" MC 48 1/4" MD 48 3/8" ME 48 1/2" MF 48 3/4" MG 48 7/8" MH 49" MI 49 1/8" MJ 49 1/4" MK 49 3/8" ML 49 1/2" MM 49 3/4" MN 49 7/8" MO 50" MP 50 1/8" MQ 50 1/4" MR 50 3/8" MS 50 1/2" MT 50 3/4" MU 50 7/8" MV 51" MW 51 1/8" MX 51 1/4" MY 51 3/8" MZ 51 1/2" NA 51 3/4" NB 51 7/8" NC 52" ND 52 1/8" NE 52 1/4" NF 52 3/8" NG 52 1/2" NH 52 3/4" NI 52 7/8" NJ 53" NK 53 1/8" NL 53 1/4" NM 53 3/8" NO 53 1/2" NP 53 3/4" NQ 53 7/8" NR 54" NS 54 1/8" NT 54 1/4" NU 54 3/8" NV 54 1/2" NW 54 3/4" NX 54 7/8" NY 55" NZ 55 1/8" OA 55 1/4" OB 55 3/8" OC 55 1/2" OD 55 3/4" OE 55 7/8" OF 56" OG 56 1/8" OH 56 1/4" OI 56 3/8" OJ 56 1/2" OK 56 3/4" OL 56 7/8" OM 57" ON 57 1/8" OO 57 1/4" OP 57 3/8" OQ 57 1/2" OR 57 3/4" OS 57 7/8" OT 58" OU 58 1/8" OV 58 1/4" OW 58 3/8" OX 58 1/2" OY 58 3/4" OZ 58 7/8" PA 59" PB 59 1/8" PC 59 1/4" PD 59 3/8" PE 59 1/2" PF 59 3/4" PG 59 7/8" PH 60" PI 60 1/8" PJ 60 1/4" PK 60 3/8" PL 60 1/2" PM 60 3/4" PN 60 7/8" PO 61" PP 61 1/8" PQ 61 1/4" PR 61 3/8" PS 61 1/2" PT 61 3/4" PU 61 7/8" PV 62" PW 62 1/8" PX 62 1/4" PY 62 3/8" PZ 62 1/2" QA 62 3/4" QB 62 7/8" QC 63" QD 63 1/8" QE 63 1/4" QF 63 3/8" QG 63 1/2" QH 63 3/4" QI 63 7/8" QJ 64" QK 64 1/8" QL 64 1/4" QM 64 3/8" QN 64 1/2" QO 64 3/4" QP 64 7/8" QQ 65" QR 65 1/8" QS 65 1/4" QT 65 3/8" QU 65 1/2" QV 65 3/4" QW 65 7/8" QX 66" QY 66 1/8" QZ 66 1/4" RA 66 3/8" RB 66 1/2" RC 66 3/4" RD 66 7/8" RE 67" RF 67 1/8" RG 67 1/4" RH 67 3/8" RI 67 1/2" RJ 67 3/4" RK 67 7/8" RL 68" RM</p></div></div>	
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NEW PASSPORT-II STEEL ROLL GATE - DETAILS
N.T.S.



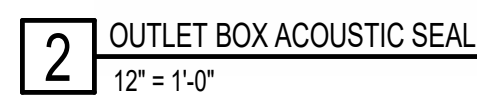
-HINGE LEFT (FROM STREET STANDPOINT)

1/16" = 1'-0"

1/16" = 1'-0"

1	NEW MOM
	1/16" = 1' 0"

A4.02





CLIENT ADDRESS

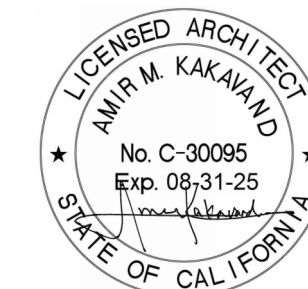


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663 Hill Street, San Luis Obispo, CA 93405
t: 805.541.4864 / c: 805.459.0806

1539 Sawtelle Blvd, Suite 14, Los Angeles, CA 90025
t: 310.254.2263 / f: 415.839.7584



CONSULTANT

PROJECT NAME

SPRUCE
ELEMENTARY
SCHOOL SECURITY
GATES

FACILITY INFO
SPRUCE ELEMENTARY SCHOOL
 501 SPRUCE AVE, SOUTH SAN FRANCISCO, CA 94080

KEY PLAN



PROJECT ISSUE DATE: YYYY/MM/DD

[illegible]

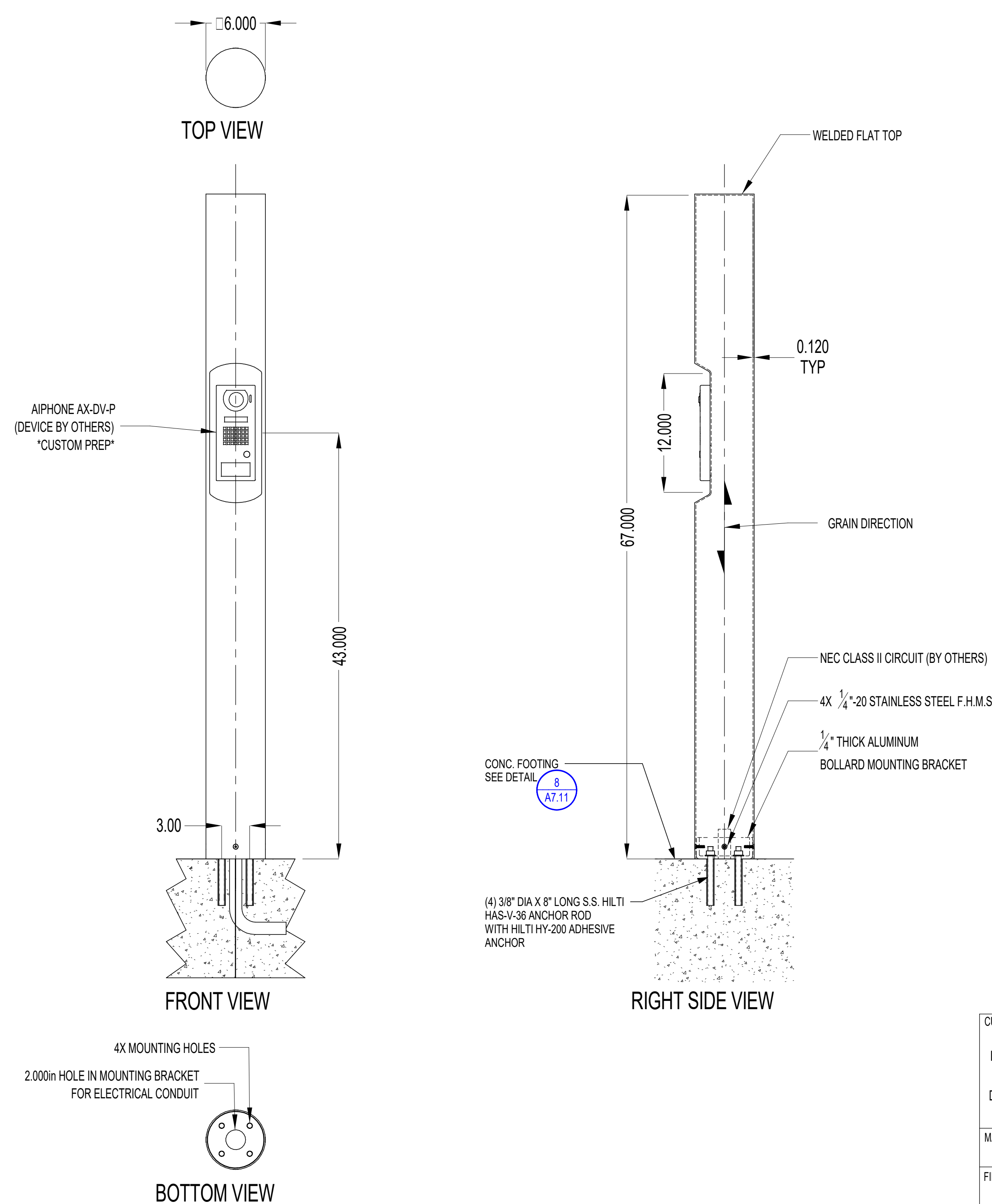
DRAFTER: Author	REVIEWER: X
PM: YYY	DSK JOB NO: X

SHEET TITLE

INTEGRATED PEDESTRIAN BOLLARD DETAILS

SHEET NUMBER

A7.12



CUSTOMER APPROVAL		NAME	DATE
INITIAL		DRAWN	2/12/2025
		CHECKED	2/12/2025
DATE	WARRANTY IS VOIDED IF ANY ALTERATIONS OR MODIFICATIONS ARE MADE TO THE BOLLARD		
MATERIAL	PROPRIETARY AND CONFIDENTIAL	JOB NAME	
STAINLESS STEEL 304	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WINK INDUSTRIES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WINK INDUSTRIES INC. IS PROHIBITED.	DRAWING NO. SOUTH SAN FRAN SCHOOL DISTRICT REV1	
FINISH	US32D	WIKK PART NO. B-6RD-FT-32D-SM	
QUANTITY	0	SCALE 1:10	SHEET 1 OF 1

Exact product dimensions and features may vary slightly from example shown above.



CLIENT ADDRESS



1901 Harrison Street, Suite 1320, Oakland, CA 94612
t: 510.686.6595

926 Natoma Street, Suite 200, San Francisco, CA 94103
t: 415 839 6418 / f: 415 839 7584

663 Hill Street, San Luis Obispo, CA 93405
t: 805.541.4864 / c: 805.459.0806

1539 Sawtelle Blvd, Suite 14, Los Angeles, CA 90025
t: 310.254.2263 / f: 415.839.7584



CONSULTANT

PROJECT NAME

SPRUCE ELEMENTARY SCHOOL SECURITY GATES

FACILITY INFO
SPRUCE ELEMENTARY SCHOOL
 501 SPRUCE AVE, SOUTH SAN FRANCISCO, CA 94080

KEY PLAN



PROJECT ISSUE DATE: YYYY/MM/DD

[illegible]

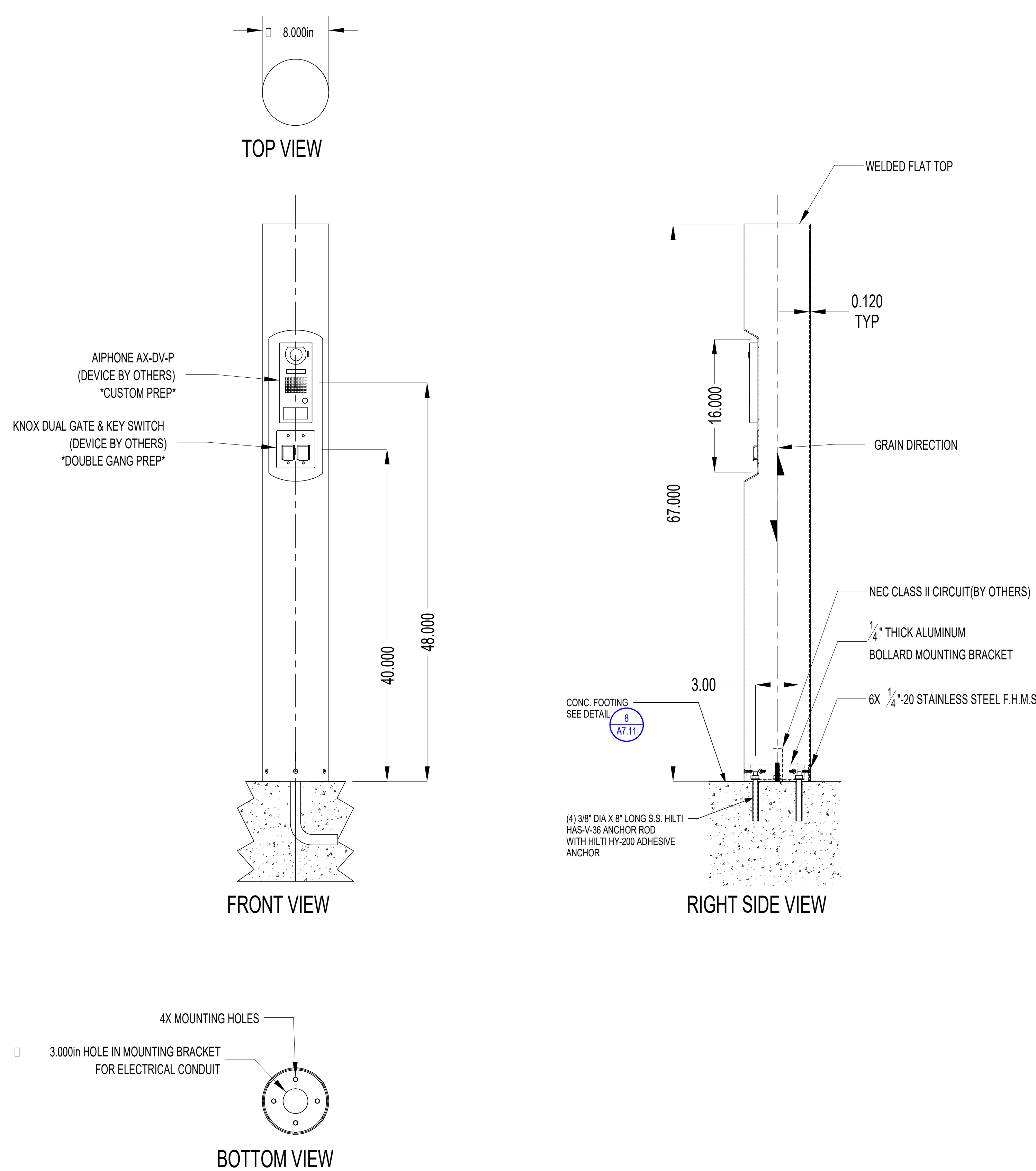
DRAFTER: Author	REVIEWER: X
PM: YYY	DSK JOB NO: X

SHEET TITLE

INTEGRATED VEHICULAR BOLLARD DETAILS

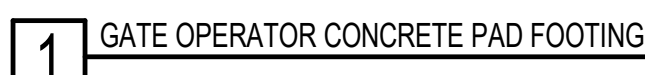
SHEET NUMBER

A7.13



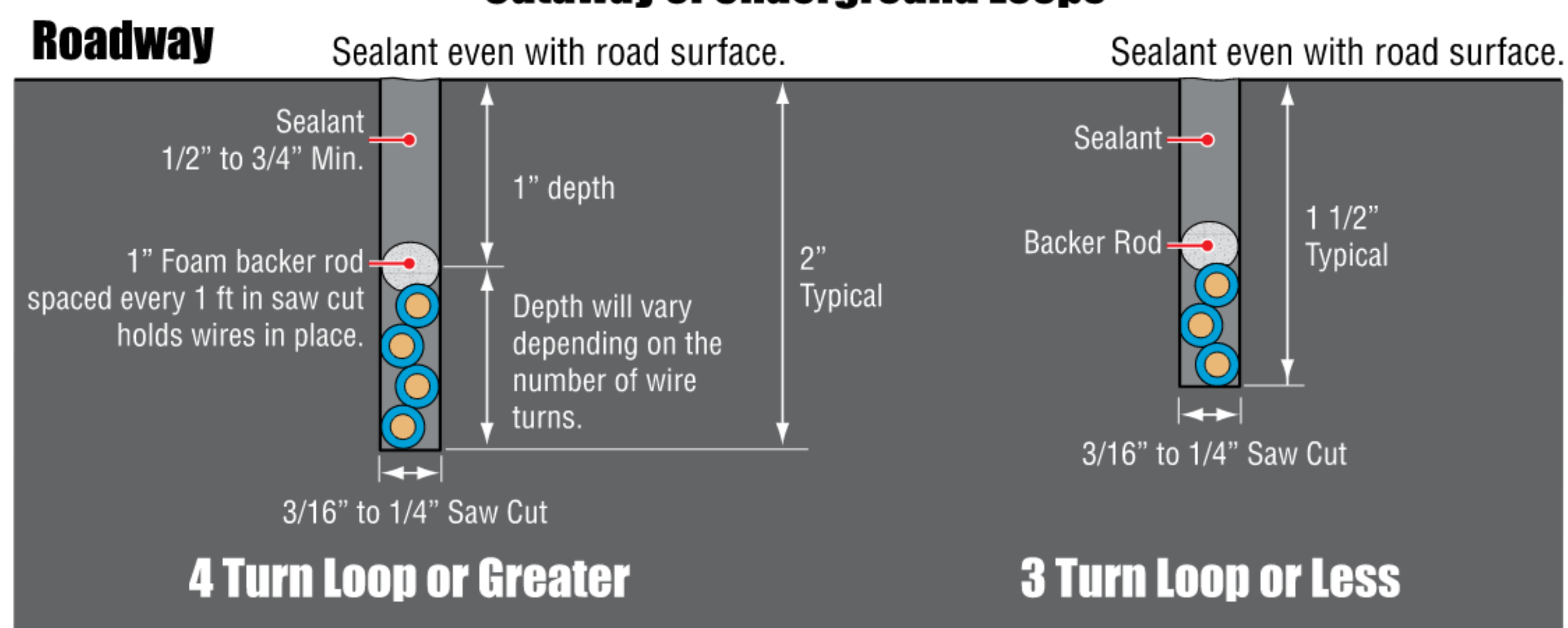
CUSTOMER APPROVAL		NAME		DATE	
INITIAL		DRAWN	YL	2/12/2025	
DATE		CHECKED	KH	2/12/2025	
		WARRANTY IS VOIDED IF ANY ALTERATIONS OR MODIFICATIONS ARE MADE TO THE BOLLARD			
MATERIAL STAINLESS STEEL 304		PROPRIETARY AND CONFIDENTIAL		JOB NAME	
FINISH US32D		THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WIKK INDUSTRIES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WIKK INDUSTRIES, INC. IS PROHIBITED.		DRAWING NO. SOUTH SAN FRAN SCHOOL DISTRICT REV1	
QUANTITY 0				WIKK PART NO. B-8RD-FT-32D-SM	
		SCALE: 1:14		SHEET OF 3	

1 INTEGRATED BOLLARD WITH AIPHONE SYSTEM/KNOX BOX DETAILS
1 1/2" = 1'-0"

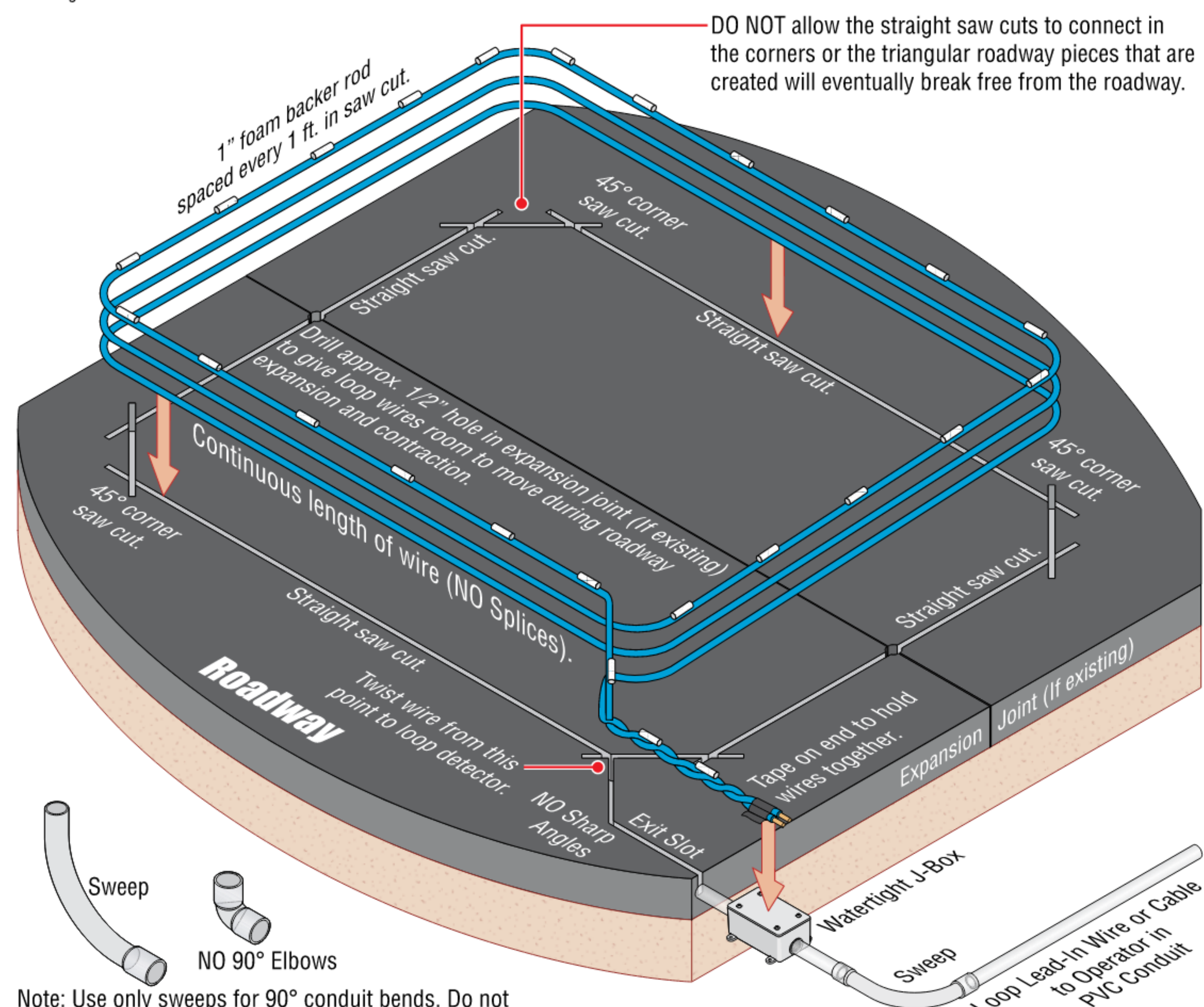


[illegible]

Cutaway of Underground Loops



Drawings not to scale



Note: Use only sweeps for 90° conduit bends. Do not use 90° elbows as this will make wire pulls very difficult and can cause damage to wire insulation.

GATE SCHEDULE																														
ROOM		GATE							FIRE RATING	STC	DETAILS			(N) HDWR GROUP	HARDWARE			(N) ELECTRIFIED	(N) TRIM	(N) LOCK	(N) HINGE	(N) CLOSER	(N) FLOOR STOP	(N) LOCK TYPE (RIM CYLINDER)	(N) POWER TRANSFER	GENERAL REMARKS	ABBREVIATIONS	COMMENTS		
NO.	NAME	NO.	NEW	EXTERI OR	WIDTH	HGT.	TYPE	MAT.			FINISH	GLASS	HEAD		JAMB	THRESH	NEW												THRESH	PANIC
N/A	PEDESTRIAN ENTRANCE	01	YES	YES	4'-0"	6'-6"					2/43.02	2/43.02	NO	01	YES	NO	YES	YES	YES	06	LV8096PEU 06A RX CON 12/24 VDC			MAMMOTH-180	FS43	20-557	EPT10		SEE LEGEND	
															MFR: SCH			MFR: LOX			MFR: IVE			MFR: OSH			MFR: VON			

IVE = Ives	Hinges, Protection Plates, Door Stops & Silencers
JOH = L.E. Johnson	Sliding Door Hardware
LCN = LCN	Sliding Closers
SCE = Schlage Electronics	Electronic Door Components
SCH = Schlage Lock Company	Locks, Latches & Cylinders
TRI = Trimco	Signs
VON = Von Duprin	Exit Devices
ZER = Zero International	Thresholds, Gasketing & Weather-stripping

MATERIALS

AL	ALUMINUM
FRP	FIBERGLASS REINFORCED POLYESTER
HM	HOLLOW METAL
MTL	METAL
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD
WDCC	WOOD WITH COPPER COVERING
FF	FACTORY FINISH

CORE TYPES

SC SOLID CORE (INTERIOR)
IC INSULATED CORE (EXTERIOR)

SIGNAGE REMARKS KEY

SIGNAGE TYPES

01 ROOM IDENTIFICATION SIGN
SEE DETAIL

21 DOOR FRAME DISTRICT SIGNAGE
SEE DETAIL

31 TOILET DOOR SIGNAGE
SEE DETAIL

41 TOILET WALL SIGNAGE
SEE DETAIL

ROOM IDENTIFICATION SIGN MOUNTING LOCATION

11 DOOR PULL SIDE

12 DOOR PUSH SIDE

SIGNAGE NOTES

- A. FOR SIGNAGE MOUNTING HEIGHTS & LOCATIONS, SEE DETAIL
B. SEE INTERIOR ELEVATIONS FOR ADDITIONAL SIGNAGE

ABBREVIATIONS

PR EVEN PAIR DOORS
U UNEVEN PAIR DOORS WITH ONE LEAF AT 3'-0" WIDTH

Diagram illustrating the installation of a door threshold assembly. The assembly is shown in cross-section, resting on a FINISH FLOOR. The threshold has a height of 1" MIN. and a width of 4" MIN. TO 4" MAX. A. The threshold is labeled as HAND ACTIVATED DOOR HARDWARE. The surface of the threshold is labeled as SMOOTH SURFACE, FULL WIDTH OF DOOR.

NOTES

- A. ALL FIRE RATED DOORS SHALL BE POSITIVE LATCHING AND SELF-CLOSING OR ACTIVATED BY SMOKE DETECTOR PER C.B.C. SECTION 716
- B. DOOR HARDWARE SHALL BE IDENTICAL TO PROJECT MANUAL SECTION 09 71 00
- C. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT
- D. ALL EXIT FRAMES ARE 2" MINIMUM THICKNESS
- E. EXISTING HARDWARE TO REMAIN FOR DOORS NOT GETTING NEW HARDWARE
- F. THE CONTRACTOR IS TO PROVIDE A WORKING SYSTEM AND ENSURE COMPLETION OF DOOR ASSEMBLY AND NEW HARDWARE
- G. TURN IN ALL EXISTING HARDWARE TO CERTIFIED COMPLIANCE LABEL ON EACH DOOR
- H. THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS THE MAXIMUM FORCE SHALL BE 30 LBS. WITH THE DOOR OPENED TO 90 DEGREES
- I. DIMENSIONS FOR EXISTING DOORS ARE APPROXIMATE, V.I.F.
- J. FIRE RATED GLAZING SHALL HAVE FIRE RATING OF DOOR ASSEMBLY. GLAZING SHALL ALSO BE IMPACT RATED
- K. NEW DOOR THICKNESS 1 3/4"
- L. VERIFY IN FIELD (E) OPENING DIMENSIONS FOR (N) DOORS AND FRAMES
- M. NEW 10" X 20" DOUBLE WINDOW STAINLESS STEEL KICKPLATE AT ALL DOOR NOGS
- N. EXISTING DOORS TO BE USED FOR PHOTOGRAPHY UNDER CONDITIONS. THEY ARE SHOWN FOR GRAPHICS ONLY TO SHOW HEIGHT & WIDTH
- O. SAVE ALL HARDWARE THAT IS BEING REMOVED. INVENTORY ALL EXISTING HARDWARE FOR EACH DOOR THAT IS BEING UPGRADED, AS PART OF INVENTORY PROCESS. TURN IN ALL PHOTOGRAPHS TO PROJECT MANAGER FROM BOTH SIDES TO SHOW HARDWARE, HARDWARE FUNCTIONS, AND LATCH SIDE CLEARANCES COORDINATE WITH DISTRICT
- P. NEW DOOR SHIMS AND FRAMING ARE EXPECTED TO BE USED FOR DOOR ASSEMBLY
- Q. INFIELD 1/2 IN OPENINGS

GLASS TYPES

- | | |
|------|---|
| GL-1 | 7/32" MIN. THICKNESS LAMINATED IMPACT SAFETY GLASS @ GLAZING IN NON-RATED DOORS & ADJACENT NON-RATED STOREFRONT |
| GL-2 | FIRE-RATED, FIRE RESISTANT, LAMINATED IMPACT SAFETY RATED GLASS @ GLAZING IN RATED DOORS |
| GL-3 | 7/32" MIN. THICKNESS LAMINATED ANNEALED GLASS @ GLAZING IN NON-RATED STOREFRONT |
| GL-4 | SUPERLITE II-XL 45, INSULATED GLASS UNIT (IGU), WITH 5/16" SOLARBAN 70XL @ GLAZING IN RATED STOREFRONT |

Type:	GE SERIES A				(E) PANEL "MP"				Mains:		225A
Volt:	120/208V, 3 Phase, 4W								Neut. Bar:		225A
Mfg.	225A/SP				Location:				Light:		(E)
Main CB:	None				ELECT. RM. ADMIN. BLDG.				G.B. Int. Rating:		10 Kaic
Fed From:	MDF										
CIR No.	DESCRIPTION	CB		LOAD			CB		DESCRIPTION	CIR No.	
		AMP	POLE	A	B	C	POLE	AMP			
1	(E) COPY MACHINE	20	2	680			1	15	(E) F-1	2	
3	(E) COPY MACHINE			680			1	15	(E) F-2		
5	(E) REC. STAFF DEV., OFFICE, CONF.	20	1				1	20	(E) REC. CORR. CLOSET OFFICE, CONF. #2	6	
7	(E) VM42	20	1	1500			1	20	(E) REC. PRINCIPALS OFFICE, RECEPTION	8	
9	(E) REC. STAFF DEV. CORR. CONF., WORKRM., IDF, LUNCH	20	1				1	20	(E) REC. RECEPTION	10	
11	(E) REC. STAFF DEV. CORR. CONF., WORKROOM	20	1				1	20	(E) REC. RECEPTION CONF. #2	12	
13	(E) F-3	20	1	200			1	20	(E) FIRE ALARM PANEL	14	
15	(E) INTRUSION ALARM	20	1				1	20	(E) REC. TOILET, NURSE, CLOSET	16	
17	(E) ENTRY GATE (N) ENTRY GATE	20	1				210	1	(E) REC. ELECT. CORR. MENS. WOMENS	18	
19	(E) SPARE			300			1	20	(E) LTS. CONTROL PANEL, EXT. LIGHTS	20	
21	(E) SPACE		1				1	20	(E) LTD. RECEPTION PRINCIPAL OFFICE	22	
23	(E) SPACE		1				1	20	(E) LTS. STAFF DEV. ASST. PRINCIPAL, CONF. WORKROOM	24	
25	(E) SITE LIGHTING	20	2	1500			2	20	(E) WATER HEATER - UTILITY	26	
27	(E) SITE LIGHTING			1500					(E) WATER HEATER - UTILITY	28	
29	(E) SITE LIGHTING	20	2				1	20	(E) LTD. ELECT. JAN. MENS. WOMENS	30	
31	(E) SITE LIGHTING			100			1	20	(E) SPARE (N) AI PHONE	32	
33	(E) SPACE						1	20	(E) OUTSIDE LTD. WALL	34	
35	(E) SPACE						1	20	(E) LTD. CORRIDOR	36	
37	(E) SPACE		1						(E) SPACE	38	
39	(E) SPACE		1					1	(E) SPACE	40	
41	(E) SPACE		1					1	(E) SPACE	42	
TOTALS				4280	2180	210					
LCL= 0.0 KVA LML= 0.0 KVA											
TOTAL CONNECTED LOAD= 6.7 KVA(+ (0.0)(25%) = 6.7 KVA 19 AMPS											
FULL LOAD AMPS-FLA= 19											

NOTES:

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-5/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.

B. GYPSUM BOARD+ - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM. OF OPENING IS 26 IN. (660 MM).

2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNUAL SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

F. THROUGH PENETRATING PRODUCT+ - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING, PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

OMEGA FLEX INC

2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING, PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

TITEXFLEX CORP

A BUNDY CO

3. FILL VOID OR CAVITY MATERIAL+ - CAULK OR SEALANT - MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE.

WARD MFG INC

3. FILL VOID OR CAVITY MATERIAL+ - CAULK OR SEALANT - MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE.

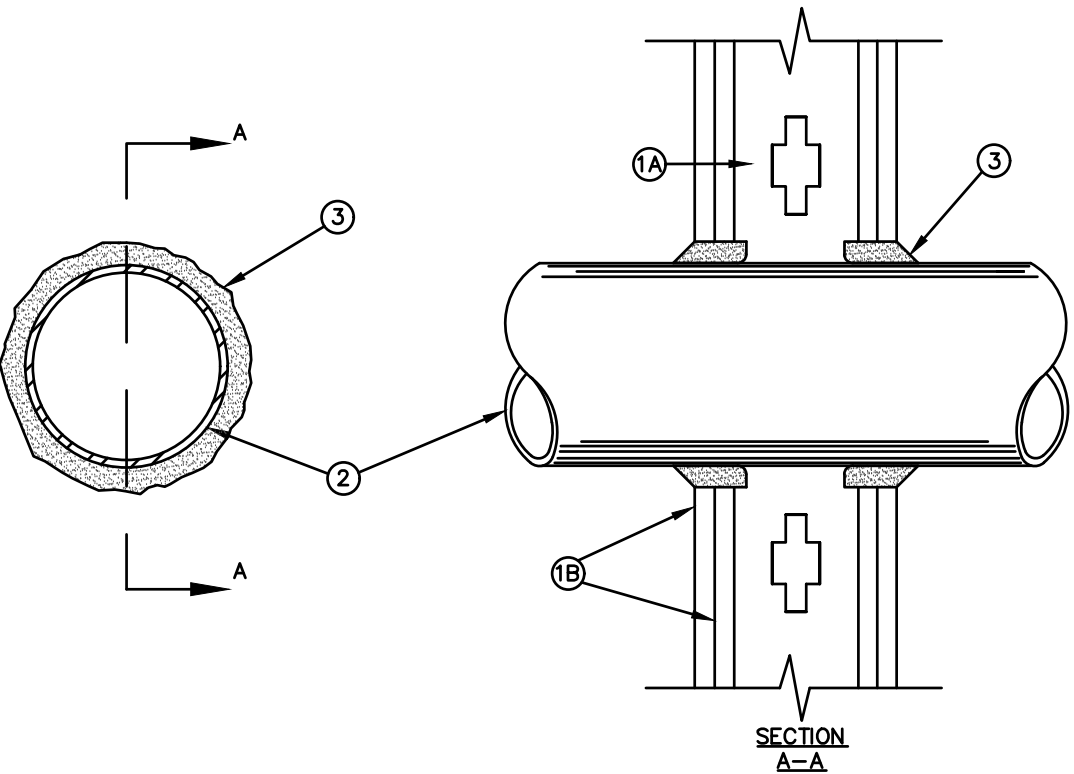
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

Max Pipe or Conduit Diam. In. (mm)	F Rating Hr.	T Rating Hr.
1 (25)	1 or 2	3 or 4
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARKING



F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient - less than 1 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft

FIRE STOP DETAILS FOR INTENT ONLY. PROVIDE APPLICABLE UL DETAIL BASED ON INSTALLED METHODS BELOW.

NOTES:
1. ASSUME ALL EXTERIOR WALLS, CORRIDOR WALLS, FLOORS, STAIR WALLS, ELEVATOR ROOM, ELECTRICAL ROOM & MECHANICAL (BOILER) ROOM PENETRATIONS REQUIRE FIRE STOP PROTECTION.

11
E.O.01
SYSTEM NO.W-L-1001
NTS

5
E.O.01
MEP COMPONENT ANCHORAGE NOTES
2019 CBC

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED OR INSTALLED PER THE DETAILS ON THE DSA CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (I.e. HARD WIRED) TO BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCE 3 NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- A. EQUIPMENT WEIGHING LESS THAN 400 POUNDS AND HAVE CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25 1617A.1.26

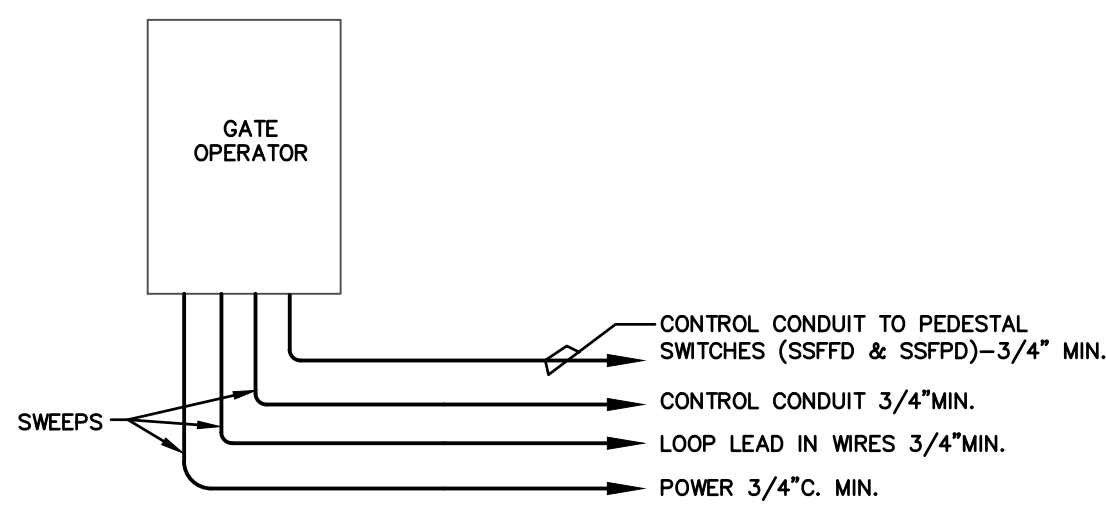
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATIONS GUIDE (e.g. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

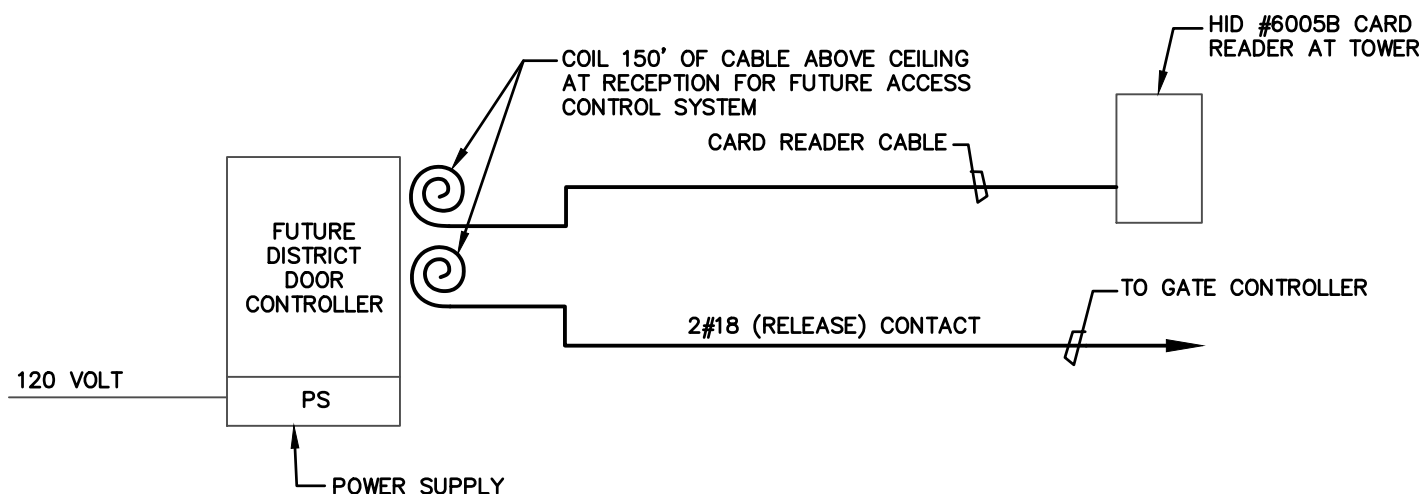
MP ☐ MD ☐ PP ☐ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIED NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OMP#) #.

6 E.O.01 CABLE LIST		
CABLE	WET RATED	INTERIOR
18/2	WESTPENN #A0224 (0.0573 IN. ²)	WESTPENN #A224
CAT5e	BELDEN #2137A0101000 (0.0495 IN. ²)	PANDUIT #PURSC04-GR-U (GREEN) or BELDEN #121300SL1000 (GREEN)
CARD READER 6/C #22 SHIELDED	AQUASEAL #AQC 3270 (0.038 IN. ²)	-



8
E.O.01
CONDUIT REQUIREMENTS AT VEHICULAR GATE
SCALE: NTS



10
E.O.01
TYPICAL ACCESS CONTROL x2
NTS

2
E.O.01
GENERAL NOTES

1. ALL PENETRATIONS THRU RATED ASSEMBLIES SHALL BE FIRE CAULKED, SEE 11/E.O.01 & 2/EI.00 AND SPECIFICATIONS. ALL PENETRATIONS THRU EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
2. ALL BRANCH CIRCUITS ARE BASED ON CU WIRE WITH THWN INSULATION U.O.N.
3. ASSUME ALL WALLS ARE 1-HOUR RATED.
4. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY & PROPERLY LABELED CEC110-2.
5. ALL RECEPTACLE PLATES SHALL HAVE TAPE ON LABEL WITH PANEL AND CIRCUIT NUMBER.
6. ALL WORK IS NEW UNLESS INDICATED OTHERWISE.
7. TERMINATIONS TO BRANCH OR CONTROL PANELS SHALL BE MADE NEAT AND WORKMANLIKE SO AS TO PRESERVE THE INTEGRITY OF THE PANEL. CONDUCTORS SHALL BE LABELED APPROPRIATELY AND BE FREE FROM DAMAGE.
8. CONTRACTOR SHALL NOT SALVAGE EXISTING BOXES, FITTINGS, ETC. IN LIEU OF INSTALLING NEW.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POWER FOR THE PROJECT WITHOUT INTERRUPTING OR OVERLOADING THE EXISTING ELECTRICAL SYSTEM.
10. ALL LOW VOLTAGE CABLES SHALL BE INSTALLED IN A NEAT WORKMAN LIKE MANNER USING CONDUITS, CABLE TRAY AND SUPPORTS TO STRUCTURE. DO NOT SUPPORT CABLES FROM CEILINGS.
11. ALL PULLBOXES SHALL BE LABELED WITH SERVICE. CABLES INSIDE SHALL BE LABELED WITH SERVICE. SEE SPECIFICATION. PROVIDE AS-BUILT SUMMARY OF PULLBOXES (INTERIOR & EXTERIOR).

3
E.O.01
ELECTRICAL DRAWING LIST

EI.01 ELECTRICAL LEGEND, DETAILS AND NOTES
EI.02 ELECTRICAL OVERALL SITE PLAN
EI.01 ELECTRICAL SITE PLAN

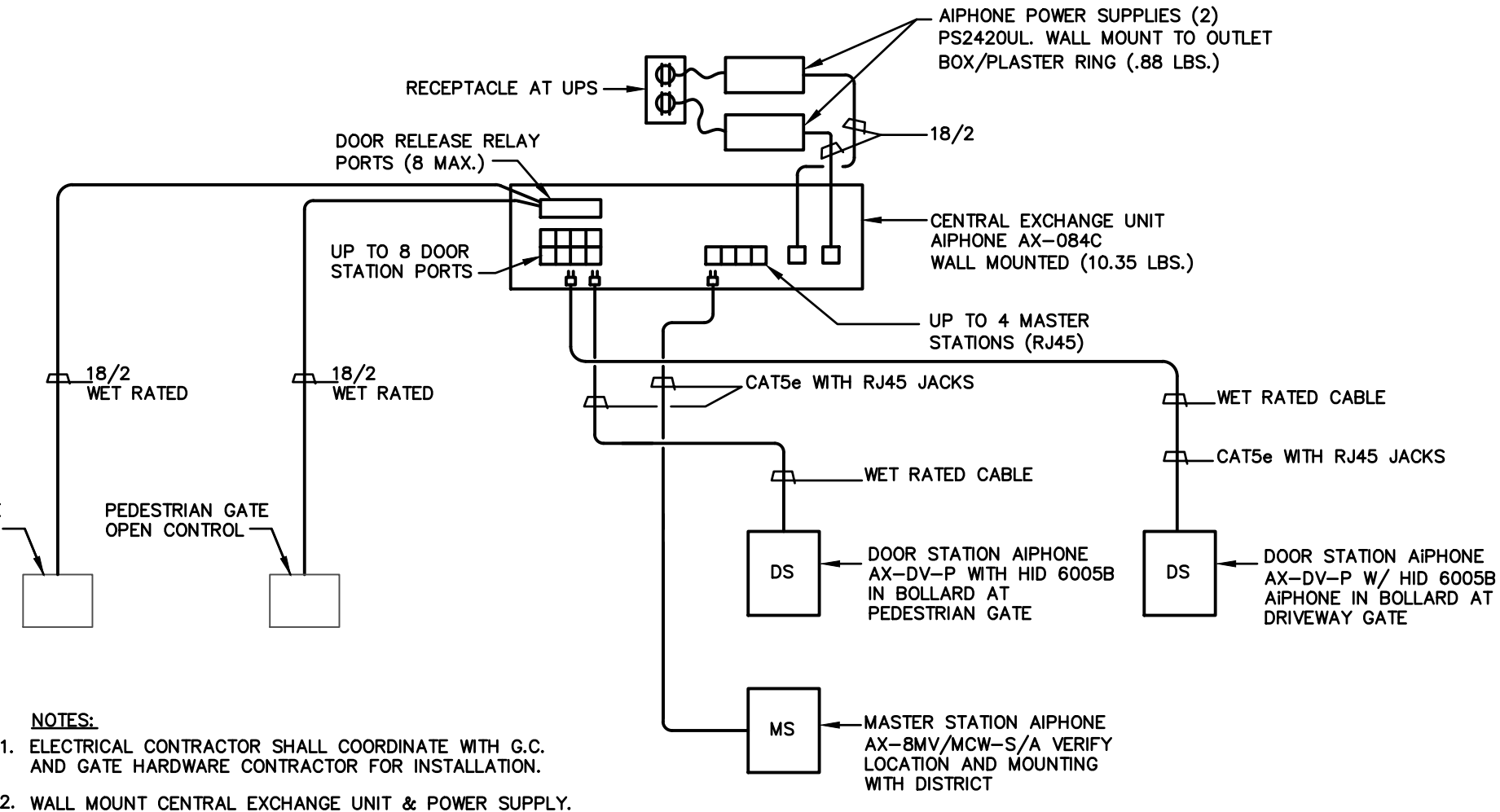
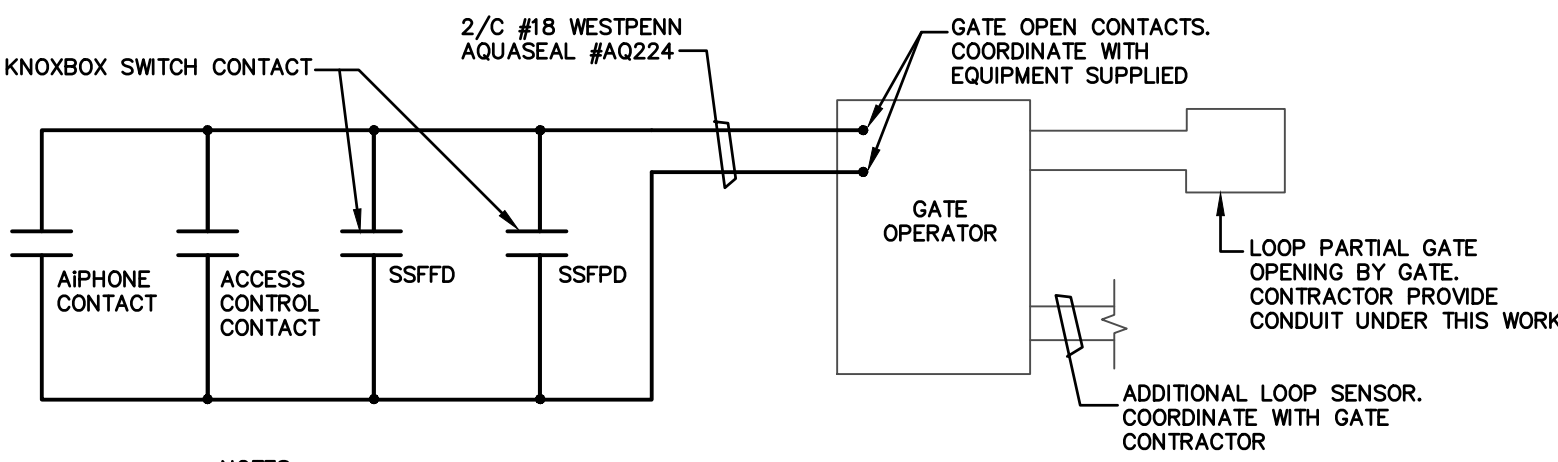
4
E.O.01
GENERAL SCOPE OF WORK

1. VIDEO ENTRY INTERCOM SYSTEM FOR PEDESTRIAN AND VEHICLE GATE.

1
E.O.01
LEGEND

- HEAVY LINES AND SYMBOLS INDICATE NEW WORK.
- LIGHT LINES AND SYMBOLS INDICATE EXISTING WORK TO REMAIN.
- LIGHT DASHED OR CROSSHATCHED LINES AND SYMBOLS INDICATE (E) WORK TO BE REMOVED.
- FLUSH MOUNTED PANELBOARD/TERMINAL CABINET VERIFY MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN
- 120/208 VOLT 3ø, 4W PANELBOARD
- JUNCTION BOX, SIZE JUNCTION BOX AS REQUIRED BY THE CALIFORNIA ELECTRICAL CODE. PROVIDE WEATHERPROOF BOXES AT ALL EXTERIOR LOCATIONS.
- CONDUIT WITH CONDUCTORS IN WALL OR CEILING SPACE. U.O.N. SLASH MARKS INDICATE NUMBER OF CONDUCTORS NOT COUNTING GROUND WIRE. NO SLASH MARKS INDICATE 2 #12 COPPER AND #12 GROUND CONDUCTORS IN 3/4" CONDUIT SEE SPECIFICATIONS FOR USE OF SURFACE MOUNTED RACEWAY (EXPOSED RACEWAY) PROVIDE GROUND CONDUCTOR IN ALL POWER CONDUIT RUNS.
- CONDUIT WITH CONDUCTORS BELOW GRADE: CUT, TRENCH & PATCH TO ORIGINAL CONDITIONS.
- HOMERUNS CONTINUING TO PANEL. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. NOT COUNTING GROUND WIRE. NO SLASH MARKS INDICATE 2 #12 COPPER CONDUCTORS AND #12 GROUND IN 3/4" CONDUIT. PROVIDE GROUND CONDUCTOR IN ALL POWER CONDUIT RUNS
- 20A, 120 VOLT DUPLEX RECEPTACLE OUTLET AT +18" AFF. U.O.N. NEMA 5-20R..
- AI-PHONE INTERCOM/CAMERA STATION.
- AI-PHONE INTERCOM/MASTER STATION AT ADMINISTRATION.
- AI-PHONE CENTRL. EXCHANGE UNIT.
- APC #BE1050G3 (9.5 LBS.) UNINTERRUPTABLE POWER SUPPLY. PROVIDE (2) #10 SMS (2") TO FRAMING AT KEY HOLE SLOTS FOR WALL MOUNTING.
- DETAIL OR SHEET REFERENCE
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AIC AMPERE INTERRUPTING CAPACITY
- C CONDUIT
- OKT CIRCUIT
- C.O. EMPTY CONDUIT WITH PULL WIRE
- GFCI OR GFI GROUND FAULT CIRCUIT INTERRUPTER DO NOT FEED THRU PROVIDE INDIVIDUAL GFI RECEPTABLES WHERE NOTED
- H HOT
- IDF INTERMEDIATE DATA FACILITY
- K 1000
- LIGHTING
- MDF MAIN DATA FACILITY
- N NEUTRAL
- (N) NEW
- NTS NOT TO SCALE
- PNL PANEL
- PB PULL BOX
- (R) REMOVE
- REC, RECEPT RECEPTACLE
- SAD SEE ARCHITECTURAL DRAWINGS
- SSFUSD SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT
- UG UNDERGROUND
- U.O.N. UNLESS OTHERWISE NOTED
- V.L. VERIFY LOCATION WITH ARCHITECTURAL DRAWINGS
- WG WIREGUARD
- WP WEATHERPROOF

7
E.O.01
VIDEO/ENTRY INTERCOM SYSTEM "AIPHONE" RISER DIAGRAM
SCALE: NTS



9
E.O.01
VEHICULAR GATE CONTROL WIRING
SCALE: NTS

AGENCY STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122220 INC.
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/22/2025

DSA APPLICATION NO. 01-122220

SPRUCE
ELEMENTARY SCHOOL

dsk
architects
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928 Natoma Street, Suite 200, San Francisco, CA 94103
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663 Hill Street, San Luis Obispo, CA 93405
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1538 Sawtelle Blvd, Suite 14, Los Angeles, CA 90025
t: 310.254.2263 / f: 415.639.7584

DATE SIGNED: May, 01, 25

CONSULTANT

BWT
CONSULTING ENGINEERS
ELECTRICAL ENGINEERS
220 SO. SPRUCE AVENUE, SUITE 203
SO. SAN FRANCISCO, CALIFORNIA 94080
(650) 871-0220
JOB NUMBER 25003

PROJECT NAME

SPRUCE
ELEMENTARY
SCHOOL SECURITY
GATES

FACILITY INFO
SPRUCE ELEMENTARY SCHOOL
501 SPRUCE AVE, SOUTH SAN FRANCISCO, CA 94080

KEY PLAN

PROJECT ISSUE DATE: 05/ 01/ 2025

DATE	NO.	REVISIONS
02/ 19/ 25		DSA SUBMITTAL
05/ 01/ 25		DSA BACK CHECK

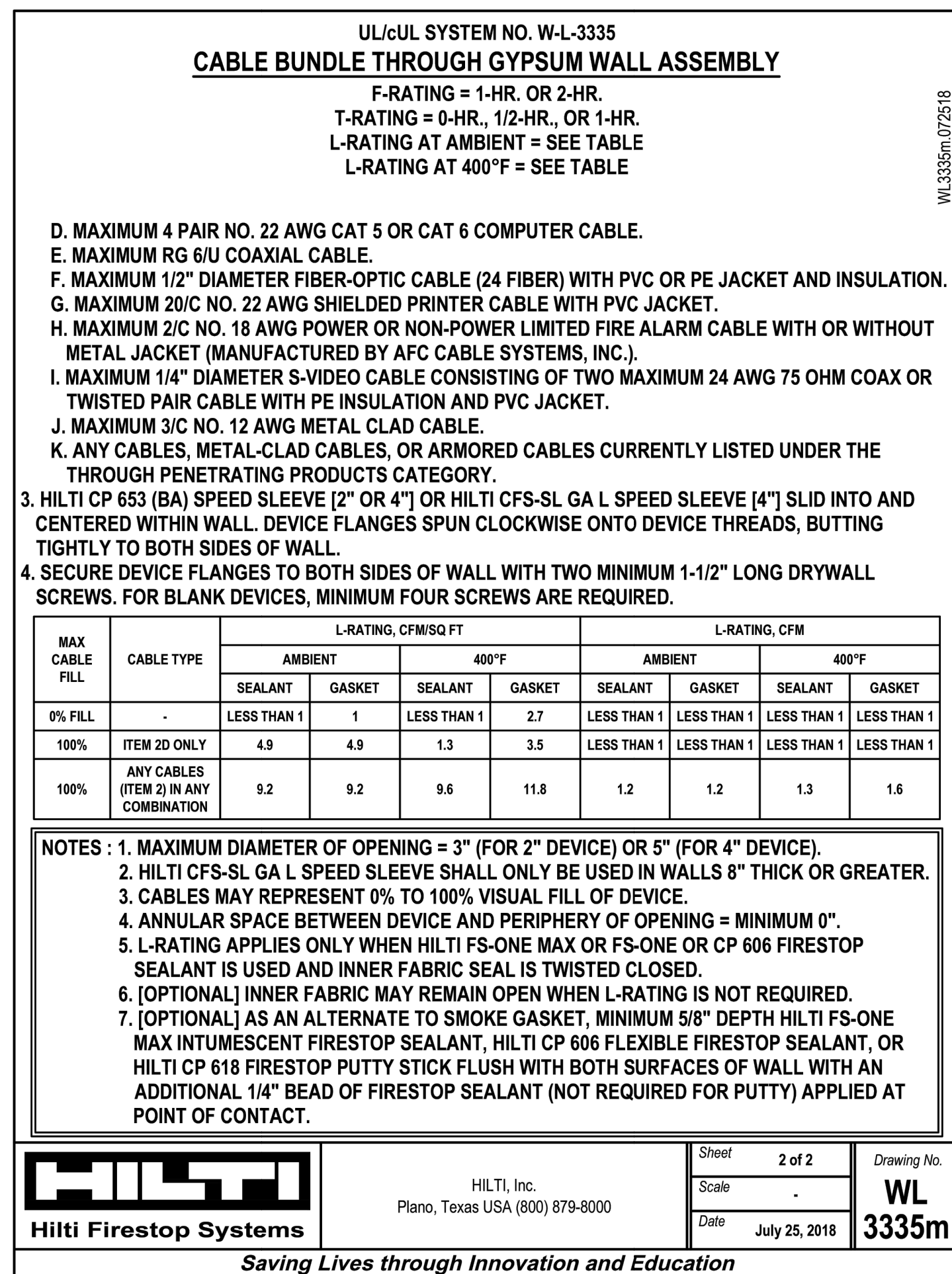
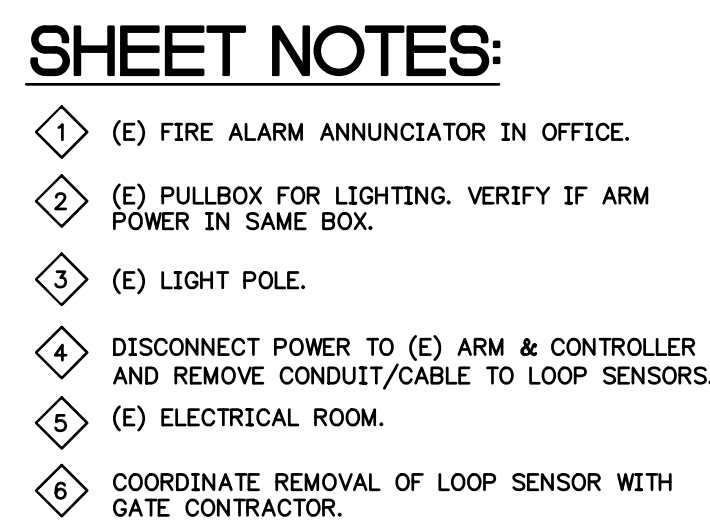
DRAFTER: S.M
Author M.V.
REVIEWER:
DSK JOB NO:

SHEET TITLE

ELECTRICAL
LEGEND, DETAILS AND NOTES

SHEET NUMBER

E.O.01



PROJECT
NORTH

PROJECT ISSUE DATE: 05/01/2025

[illegible]

DRAFTER: S.M
Author M.V.

SHEET TITLE
ELECTRICAL
OVERALL SITE PLAN

SHEET NUMBER

E1.00

A APP #01-110786



3
E1.01

CEC MOUNTING

SCALE: NTS

2 TYPICAL JOINT TRENCH DETAIL
E1.01 SCALE: NTS

dsk architects
1901 Harrison St., Suite 1320
Oakland, CA, 94612

SSFUSD
SPRUCE ES SECURITY GATES

SECTION 00 01 05

PROJECT TITLE & SIGNATURES

PROJECT MANUAL

Spruce Es Security Gates Specifications

South San Francisco Unified School District

OWNER:

South San Francisco Unified School District
398 B Street
South San Francisco, CA 94080 Wazi Chowdhury, Director of
Facilities / Safety wchowdhury@ssfusd.org
T: 650 877 8718

File No: 41-28
DSA App No.: 01-122220
DSA PTN: 69070-131

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122220 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/2/2025

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T: 415 987-6303



By: Amir Kakavand C-30095



By: Mike Voigtlander 11460

END OF SECTION 00 01 05

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

- ☐ Project has a geotechnical report or construction documents require special inspection by a geotechnical engineer.
☒ Project does NOT have and does NOT require a geotechnical report.

	TYPE	BY		TYPE	BY
S1 SOILS - GENERAL			C1 CAST-IN-PLACE CONCRETE		
☐ S1a: Site Preparation	See Notes	PI	☒ C1a: Mix Design	Continuous	SI
S2 COMPACTION AND FILL			☒ C1b: Reinforcing Steel	Test	LOR
☐ S2a: Fill Materials	Test	LOR*	☒ C1c: Concrete Material	Test	LOR
☐ S2b: Fill Placement	Continuous	LOR*	☒ C1d: Strength Test	Test	LOR
☐ S2c: Compaction	Test	LOR*	☐ C1e: Batch Plant Inspection		SI
S3 DRIVEN DEEP FOUNDATIONS (PILES)			C2 PRESTRESSED CONCRETE		
☐ S3a: Materials and Members	Continuous	GE*	☐ C2a: Tendons and Anchorage	Test	LOR
☐ S3b: Pile Capacity	Test	LOR*	☐ C2b: Tendon Placement	Periodic	SI
☐ S3c: Driving Operations	Continuous	GE*	☐ C2c: Concrete Strength	Periodic	SI
☐ S3d: Pile Installation	Continuous	GE*	☐ C2d: Stressing Operations	Continuous	SI
☐ S3e: Specialty Piles	*	*	C3 PRECAST CONCRETE		
S4 CAST-IN-PLACE DEEP FOUNDATIONS (PIERS)			☐ C3a: General Fabrication	Continuous	SI
☐ S4a: Drilling Operations	Continuous	PI	☐ C3b: General Erection	Periodic	SI*
☐ S4b: Pier Construction	Continuous	PI	☐ C3c: Diaphragm Connections	Continuous	SI
☐ S4c: Bearing Strata	Continuous	GE*	☐ C3d: Diaphragm Tolerances	Periodic	SI
S5 RETAINING WALLS			C4 SHOTCRETE		
☐ S5a: Backfill Placement	Continuous	GE*	☐ C4a: Placement	Continuous	SI
☐ S5b: Soil Reinf. and Drainage	Continuous	GE*	☐ C4b: Shotcrete Material	Test	LOR
☐ S5c: Segmental Retaining Walls	Continuous	GE*	C5 POST-INSTALLED ANCHORS		
S6 OTHER SOILS			☒ C5a: Inspection	See notes	SI*
☐ S6a: Soil Improvement Test	Test	GE*	☒ C5b: Test	Test	LOR
☐ S6b: Soil Improvement Inspection	Continuous	GE*	C6 OTHER CONCRETE		
☐ S6c: Not used.	N/A	N/A	☐ C6a: Not used.	N/A	N/A
☐ S6d: Not used.	N/A	N/A	☐ C6b: Not used.	N/A	N/A
☐ S6e: Not used.	N/A	N/A	☐ C6c: Not used.	N/A	N/A
☐ S6f: Not used.	N/A	N/A	☐ C6d: Not used.	N/A	N/A
☐ S6g: Not used.	N/A	N/A	☐ C6e: Not used.	N/A	N/A
☐ S6h: Not used.	N/A	N/A	☐ C6f: Not used.	N/A	N/A
☐ S6j: Not used.	N/A	N/A	☐ C6g: Not used.	N/A	N/A
☐ S6k: Not used.	N/A	N/A	☐ C6h: Not used.	N/A	N/A
☐ S6m: Not used.	N/A	N/A	☐ C6j: Not used.	N/A	N/A
☐ S6n: Not used.	N/A	N/A	☐ C6k: Not used.	N/A	N/A
☐ S6p: Not used.			☐ C6m: Not used.		
☐ S6q: Not used.			Not used.		

* See Appendix for additional information.

* See Appendix for additional information.

Project Name: **SPRUCE ELEMENTARY SCHOOL**

Application No.: **01-122220** Increment:

School District: **SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT** File No.: **4128**

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

	TYPE	BY		TYPE	BY
M1 STRUCTURAL MASONRY f'm PSI:			S/A1 STEEL AND ALUMINUM		
☐ M1a: Mill Certificates - Reinf.	Periodic	SI*	☒ S/A1a: Material Identification	Periodic	*
☐ M1b: Material Certificates	Test	LOR	☒ S/A1b: Unidentified Material	Test	LOR
☐ M1c: Strength Test	Test	LOR	☒ S/A1c: Steel Fabrication	Periodic	SI
☐ M1d: Mortar Proportions	Periodic	SI	☐ S/A1d: Buckling Restrained Brace	Test*	LOR
☐ M1e: Grout Proportions	Periodic	SI	S/A2 HIGH-STRENGTH BOLTS		
☐ M1f: Batch Plant Inspection		SI	☐ S/A2a: Product Verification	Periodic	SI
☐ M1g: Core Tests	Test	LOR	☐ S/A2b: Bolts, Nuts, and Washers	Test	LOR
☐ M1h: Prisms	Continuous	SI	☐ S/A2c: Snug Tight	Periodic	SI
☐ M1i: Dowels and Supports	Periodic	SI	☐ S/A2d: Pretensioned / Slip-Critical	*	SI
☐ M1j: Reinforcement and Members	Periodic	SI	S/A3 WELDING		
☐ M1k: Reinforcement Placement	Continuous	SI	☐ S/A3a: Weld Material	Periodic	SI
☐ M1l: Grout Placement	Continuous	SI	☐ S/A3b: Certificate of Compliance	Periodic	SI
☐ M1m: Unit Layup and Joints	Periodic	SI*	☐ S/A3c: WPS and Qualifications	Periodic	SI
☐ M1n: Cold/Hot Weather Work	Periodic	SI	S/A4 SHOP WELDING		
☐ M1o: Anchors and Embeds	Continuous	SI	☐ S/A4a: Weld Category A	Continuous	SI
☐ M1p: Grout Cavity	Continuous	SI	☐ S/A4b: Weld Category B	Periodic	SI
M2 VENEER OR GLASS BLOCK PARTITIONS			☐ S/A4c: Stairs and Railing	Periodic	SI
☐ M2a: Mortar and Grout	Periodic	SI	☐ S/A4d: Reinf. Steel Weldability	Periodic	SI
☐ M2b: Unit Layup and Joints	Periodic	SI	☐ S/A4e: Reinforcing Steel	Continuous	SI
☐ M2c: Wires and Connector	Periodic	SI	S/A5 FIELD WELDING		
☐ M2d: Anchors and Embeds	Periodic	SI	☐ S/A5a: Weld Category A	Continuous	SI
☐ M2e: Cold/Hot Weather Work	Periodic	SI*	☐ S/A5b: Weld Category B	Periodic	SI
☐ M2f: Adhered Veneer Bond	Test	LOR	☐ S/A5c: End Welded Studs	Periodic	SI
M3 POST-INSTALLED ANCHORS			☐ S/A5d: Deck Welds	Periodic	SI
☐ M3a: Inspection	Varies*	SI*	☐ S/A5e: Cold-Formed Steel	Periodic	SI
☐ M3b: Test	Test	LOR	☐ S/A5f: Stairs and Railing	Periodic	SI
M4 OTHER MASONRY			☐ S/A5g: Reinf. Steel Weldability	Periodic	SI
☐ M4a: Not used.	N/A	N/A	☐ S/A5h: Reinforcing Steel	Continuous	SI
☐ M4b: Not used.	N/A	N/A	S/A6 NONDESTRUCTIVE TESTING		
☐ M4c: Not used.	N/A	N/A	☐ S/A6a: Ultrasonic	Test	LOR
☐ M4d: Not used.	N/A	N/A	☐ S/A6b: Magnetic Particle	Test	LOR
☐ M4e: Not used.	N/A	N/A	☐ S/A6c: Not used.	N/A	N/A
☐ M4f: Not used.	N/A	N/A	☐ S/A6d: Not used.	N/A	N/A
☐ M4g: Not used.	N/A	N/A	☐ S/A6e: Not used.	N/A	N/A
☐ M4h: Not used.	N/A	N/A	S/A7 STEEL JOISTS AND TRUSSES		
☐ M4j: Not used.	N/A	N/A	☐ S/A7a: Fabrication	Continuous	SI
☐ M4k: Not used.	N/A	N/A	S/A8 SPRAYED FIRE-RESISTANT MATERIALS		
☐ M4m: Not used.			☐ S/A8a: Surface and Installation	Periodic	SI
☐ M4n: Not used.			☐ S/A8b: Density	Test	LOR
☐ M4p: Not used.			☐ S/A8c: Bond: Adhesion/Cohesion	Test	LOR
* See Appendix for additional information.			* See Appendix for additional information.		

Project Name: **SPRUCE ELEMENTARY SCHOOL**

Application No.: **01-122220** Increment:

School District: **SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT** File No.: **4128**

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

	TYPE	BY		TYPE	BY	
S/A9 ANCHOR BOLTS AND ANCHOR RODS			X OTHER			
☐ S/A9a: Anchor Rods and Bolts	Test	LOR	☐ X01: Product Load Test*	Test	LOR	
☐ S/A9b: Other Threaded Rods	Test	LOR	☐ X02: Non-HSB Installation Torque	Continuous	SI*	
S/A10 STORAGE RACK SYSTEMS			☐ X03: Not used.	N/A	N/A	
☐ S/A10a: Material Verification	Periodic	SI	☐ X04: Not used.	N/A	N/A	
☐ S/A10b: Fabrication	Periodic	SI	☐ X05: Not used.	N/A	N/A	
☐ S/A10c: Anchorage	Periodic	SI	☐ X06: Not used.	N/A	N/A	
☐ S/A10d: Completed System	Periodic	SI*	☐ X07: Not used.	N/A	N/A	
S/A11 OTHER STEEL AND ALUMINUM			☐ X08: Not used.	N/A	N/A	
☐ S/A11a: Not used.	N/A	N/A	☐ X09: Not used.	N/A	N/A	
☐ S/A11b: Not used.	N/A	N/A	☐ X10: Not used.	N/A	N/A	
☐ S/A11c: Not used.	N/A	N/A	EXEMPTIONS			
☐ S/A11d: Not used.	N/A	N/A	Those items identified on the DSA-approved construction documents with a note indicating they are not part of the DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.			
☐ S/A11e: Not used.	N/A	N/A				
☐ S/A11f: Not used.	N/A	N/A				
☐ S/A11g: Not used.	N/A	N/A				
☐ S/A11h: Not used.	N/A	N/A				
☐ S/A11j: Not used.	N/A	N/A				
☐ S/A11k: Not used.	N/A	N/A				
W1 PREFABRICATED WOOD TRUSSES						☒ Soils: Eligible shallow foundation elements**.
☐ W1a: Open Web Truss Fabrication	Continuous	SI				☒ Soils: Eligible deep foundation elements - type 1**.
☐ W1b: Metal Plate Truss Fabrication	Continuous	SI				☒ Soils: Eligible deep foundation elements - type 2**.
W2 MANUFACTURED WOOD ELEMENTS						☒ Concrete/Masonry: Eligible post-installed anchors**.
☐ W2a: GL Timber Fabrication	Continuous	SI				☒ Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2.
☐ W2b: CLT Fabrication	Continuous	SI	☒ Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4.			
☐ W2c: Mass Timber Erection	Periodic	SI	☒ Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2.			
☐ W2d: Connections Type A	Periodic	SI	☒ Masonry: Freestanding site walls and retaining walls per DSA IR 21-1.			
☐ W2e: Connections Type B	Continuous	SI	☒ Concrete: Eligible precast elements**.			
☐ W2f: Sealants	Periodic	SI	☒ Welding: Eligible fences and gates**.			
W3 OTHER WOOD			☒ Welding: Eligible railing and ramps**.			
☐ W3a: Not used.	N/A	N/A	☒ Welding: Eligible interior cold-formed steel framing**.			
☐ W3b: Not used.	N/A	N/A	☒ Welding: Eligible equipment curbs**.			
☐ W3c: Not used.	N/A	N/A	☒ Welding: Eligible components supporting MEP distribution systems**.			
☐ W3d: Not used.	N/A	N/A	☒ Welding: Eligible mounts and recreational equipment**.			
☐ W3e: Not used.	N/A	N/A	☒ Welding: Eligible nonstructural components**.			
☐ W3f: Not used.	N/A	N/A				
☐ W3g: Not used.	N/A	N/A				
☐ W3h: Not used.	N/A	N/A				
* See Appendix for additional information.			** See Appendix for eligibility requirements.			

Project Name: **SPRUCE ELEMENTARY SCHOOL**

Application No.: **01-122220** Increment:

School District: **SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT** File No.: **4128**

LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Any items indicated on the approved construction documents with a note stating that the items are not part of the DSA approval are not considered in this form. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of nonstructural components, etc., per Title 24, Part 2, Chapter 17A.

Legend to TYPE and BY Columns:

Continuous - Indicates continuous special inspection is required.

Periodic - Indicates periodic special inspection is required.

Test - Indicates a test is required.

GE – Indicates special inspection shall be performed by a registered geotechnical engineer or his/her authorized representative, usually associated with the Laboratory of Record.

LOR – Indicates test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program (i.e., the Laboratory of Record for the project). See CAC Section 4-335.

PI - Indicates special inspection may be performed by a project inspector when specifically approved by DSA.

SI - Indicates special inspection shall be performed by an appropriately qualified/approved special inspector.

Required Verified Reports:

1. Structural Testing and Inspection: Form DSA 291
2. Post-installed Anchors: Form DSA 291 or DSA 292
3. Shop Welding Inspection: Form DSA 291 or DSA 292

Verified reports are required on the following DSA forms:

DSA 291: Laboratory of Record Verified Report
 DSA 292: Special Inspectors Employed Directly by the District Verified Report
 DSA 293: Geotechnical Verified Report

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

Name of Architect or Engineer in General Responsible Charge:

Amir Kakavand

Name of Structural Engineer of Record (when applicable):

Signature of Architect or Structural Engineer:

DSA STAMP	
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
APP: 01-122220 INC:	
REVIEWED FOR	
SS ☒	FLS ☐ ACS ☐
DATE: 06/2/2025	

Project Name: **SPRUCE ELEMENTARY SCHOOL**

Application No.: **01-122220** Increment:

School District: **SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT** File No.: **4128**

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

NOTE: Undefined sections and table references found in this appendix are from the CBC, or California Building Code

S1. GENERAL:	
Test or Special Inspection	Code References and Notes
S1a: Site Preparation Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.
S2. SOIL COMPACTION AND FILL:	
Test or Special Inspection	Code References and Notes
S2a: Fill Materials Perform classification and testing of fill materials.	* Under the supervision of the geotechnical engineer.
S2b: Fill Placement Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the end of this form listing exemptions for limitations.
S2c: Compaction Compaction testing.	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.
S3. DRIVEN DEEP FOUNDATIONS (PILES):	
Test or Special Inspection	Code References and Notes
S3a: Materials and Members Verify pile materials, sizes and lengths comply with the requirements.	* By geotechnical engineer or his or her qualified representative.
S3b: Pile Capacity Determine capacities of test piles and conduct additional load tests as required.	* Under the supervision of the geotechnical engineer.
S3c: Driving Operations Inspect driving operations and maintain complete and accurate records for each pile.	* By geotechnical engineer or his or her qualified representative.

Project Name: **SPRUCE ELEMENTARY SCHOOL**Application No.: **01-122220** Increment:School District: **SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT** File No.: **4128**

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

S3d: Pile Installation Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	* By geotechnical engineer or his or her qualified representative.
S3e: Specialty Piles For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	* As defined on drawings or specifications.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	
Test or Special Inspection	Code References and Note
S4a: Drilling Operations Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations.
S4b: Pier Construction Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations.
S4c: Bearing Strata Confirm adequate end strata bearing capacity.	Provide tests and inspections per CONCRETE section below.

S5. RETAINING WALLS:	
Test or Special Inspection	Code References and Notes
S5a: Backfill Placement Placement, compaction and inspection of backfill.	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
S5b: Soil Reinf. and Drainage Placement of soil reinforcement and/or drainage devices.	* By geotechnical engineer or his or her qualified representative.
S5c: Segmental Retaining Walls Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.

Project Name: **SPRUCE ELEMENTARY SCHOOL**Application No.: **01-122220** Increment:School District: **SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT** File No.: **4128**

Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

S6 OTHER SOILS	
Test or Special Inspection	Code References and Notes
S6a Soil Improvements	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
S6b Inspection of Soil Improvements	* By geotechnical engineer or his or her qualified representative.
S6c. Not used.	N/A
S6d. Not used.	N/A
S6e. Not used.	N/A
S6f. Not used.	N/A
S6g. Not used.	N/A
S6h. Not used.	N/A
S6j. Not used.	N/A
S6k. Not used.	N/A
S6m. Not used.	N/A
S6n. Not used.	N/A

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C1. CAST-IN-PLACE CONCRETE	
Test or Special Inspection	Code References and Notes
C1a: Mix Design Verify use of required design mix.	Table 1705A.3 Item 5, 1903A.5, 1903A.7, 1904A.1, 1904A.2, 1910A.1 ; ACI 318 Ch. 19, 26.4, 26.13.3.2.
C1b: Reinforcing Steel Identify, sample, and test reinforcing steel.	Table 1705A.3 Item 1, 1705A.3.9, 1908A.1, 1910A.2; ACI 318 Ch. 20 and Sections 25.2, 25.3, 25.5.1, 26.6.1; DSA IR 17-10 and BU 24-02. (See Appendix (end of this form) for exemptions.)
C1c: Concrete Material During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Table 1705A.3 Item 6, 1705A.3.9, 1905A.1.17; ASTM C31, ASTM C172; ACI 318 Sections 26.4, 26.5 & 26.12.
C1d: Strength Test Test concrete (f'_c).	1905A.1.17; ACI 318 Section 26.12.
C1e: Batch Plant Inspection Batch plant inspection: Continuous	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or not required per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
C2a: Tendons and Anchorage Sample and test prestressing tendons and anchorages.	1705A.3.4 Table 1705A.3 Item 1, 1910A.3; ACI 318 Ch. 20 and Sections 25.2, 26.6.1.
C2b: Tendon Placement Inspect placement of prestressing tendons.	1705A.3.4, Table 1705A.3 Items 1 & 9; ACI 318 Ch. 20 and Sections 25.2, 26.6.1-26.6.3.
C2c: Concrete Strength Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Table 1705A.3 Item 13; ACI 318 Sections 26.10.2, 26.11.2, 26.13.3.3. Special inspector to verify specified concrete strength test prior to stressing.
C2d: Stressing Operations Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	1705A.3.4, Table 1705A.3 Item 9; ACI 318 Sections 26.10.2, 26.13.1, 26.13.3.2.

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
C3a: General Fabrication 1. Inspect fabrication of precast concrete members. * 2. Inspect reinforcement of the following precast concrete elements or system(s): a. special moment frames. b. boundary elements of special structural walls. c. coupling beams.	1705A.3 Item 1, 7. See Appendix for exemptions. *May be periodic where fabrication occurs in a PCI-certified plant. For underground structures, NPCA plant certification is acceptable. PCI MNL-116-21; PCI MNL-117-16: NPCA QCM-24. See IR A-15.

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C3b: General Erection Inspect erection of precast concrete members.	Table 1705A.3 Item 10.
C3c: Diaphragm Connections For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: <ol style="list-style-type: none"> 1. Installation of the embedded parts. 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field. 	Table 1705A.3 Item 11.
C3d: Diaphragm Tolerances Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Table 1705A.3 Item 12

C4. SHOTCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
C4a: Placement Inspect shotcrete placement for proper application techniques.	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4, and ACI 506R.
C4b: Shotcrete Material Sample and test shotcrete (f'_c).	1908A.2 and 1705A.3.9.

C5. POST-INSTALLED ANCHORS:	
Test or Special Inspection	Code References and Notes
C5a: Inspection Inspect installation of post-installed anchors	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318 Sections 26.7.2, 26.13.1, 26.13.3.2, 26.13.3.3. * May be performed by the project inspector when specifically approved by DSA.
C5b: Test Test post-installed anchors.	1910A.5. (See Appendix (end of this form) for exemptions.)

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C6. OTHER CONCRETE:	
Test or Special Inspection	Code References and Notes
C6a. Not used.	N/A
C6b. Not used.	N/A
C6c. Not used.	N/A
C6d. Not used.	N/A
C6e. Not used.	N/A
C6f. Not used.	N/A
C6g. Not used.	N/A
C6h. Not used.	N/A
C6j. Not used.	N/A
C6k. Not used.	N/A
C6m. Not used.	Not used.
C6n. Not used.	Not used.

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M1. STRUCTURAL MASONRY:	
Test or Special Inspection	Code References and Notes
M1a: Mill Certificates - Reinf. Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners and metal accessories. See item C1(b) for identification, sampling and testing of reinforcing steel.	2103A.4; TMS 602-16 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10 for unidentified reinforcing steel.
M1b: Material Certificates Producer's certificate of compliance for masonry units, mortar and grout materials.	1705A.4, 2103A.2, 2103A.3, 2103A.5; TMS 602 Articles 1.5B.2, 2.1, 2.2, 2.6A and 2.6B, and Table 6 footnote 3.
M1c: Strength Test Test masonry (f_m).	1705A.4. For Unit Strength: 2105A.3; TMS 602 Articles 1.4B.2, 1.5B.1 & 1.5B.2. For Prism (required when $f_m > 2000$ psi): 2105A.2; TMS 602 Articles 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2.
M1d: Mortar Proportions Verify proportions or properties of site-prepared, premixed or preblended mortar.	TMS 602, Table 3 (row 5), Table 4 Item 1a. DSA PR 20-01. (See Appendix (end of this form) for exemptions.)
M1e: Grout Proportions Verify proportions or properties of site-prepared, premixed or preblended grout.	TMS 602, Table 3 (row 5), Table 4 Item 2d. (See Appendix (end of this form) for exemptions.)
M1f: Batch Plant Inspection Batch plant inspection: Periodic	Default of ' Continuous ' per 1705A.3.3 . If approved by DSA, batch plant inspection may be reduced to ' Periodic ' subject to requirements in Section 1705A.3.3.1 , or not required per 1705A.3.3.2 . See IR 17-13. Refer to TMS 602 Table 3 and Table 4, Item #3a. (See Appendix (end of this form) for exemptions.)
M1g: Core Tests Test core-drilled samples.	2105A.4. (See Appendix (end of this form) for exemptions.)
M1h: Prisms Inspect preparation of prisms.	TMS 602 Articles 1.4.B.3 & 1.4.B.4 & Table 4 Item 4.
M1i: Dowels and Supports Verify size, location and condition of all dowels, construction supporting masonry, etc.	
M1j: Reinforcement and Members Verify size, grade and type of reinforcement, connectors, and anchor bolts. Verify size and location of structural members.	TMS 602 Table 4, Items 1c & 3c.
M1k: Reinforcement Placement Inspect placement of reinforcement, anchor bolts, and connectors.	TMS 602 Table 4 Item 2c.
M1l: Grout Placement Placement, consolidation, and reconsolidation of grout.	TMS 602 Table 4 Item 3h.
M1m: Unit Layup and Joints Inspect placement of masonry units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M1n: Cold/Hot Weather Work Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90° F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
M1o: Anchors and Embeds Inspect type, size and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry	TMS 602 Table 4 Item 3d.

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to structural members, frames and other construction.	
M1p: Grout Cavity Inspect grout space, including mortar protrusions, prior to placement of grout.	TMS 602 Table 4 Item 2a.

M2. VENEER OR GLASS BLOCK PARTITIONS:	
Test or Special Inspection	Code References and Notes
M2a: Mortar and Grout Verify proportions of site prepared mortar and grout and/or verify certification of premixed mortar.	TMS 602 Table 3 (row 5) and Table 4 Items 1a & 2d.
M2b: Unit Layup and Joints Inspect placement of units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M2c: Wires and Connector Inspect placement of wire, connectors and anchors	TMS 602 Table 4 Item 2c.
M2d: Anchors and Embeds Inspect type, size and location of anchors and all other items to be embedded in masonry veneer including details of anchorage of masonry to veneer backing, frames and other construction.	TMS 602 Table 4 Item 3d.
M2e: Cold/Hot Weather Work Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90° F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
M2f: Adhered Veneer Bond Test adhered veneer bond strength.	1410.2.1; TMS 402 Article 12.3.2.4. (Field-constructed mock-up using specified unit, mortar, and substrate, laboratory tested in accordance with ASTM C1823).

M3. POST-INSTALLED ANCHORS IN MASONRY:	
Test or Special Inspection	Code References and Notes
M3a: Inspection Inspect installation of post-installed anchors	1617A.1.19, 1705A.4, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic); ACI 318 Section 26.13. * May be performed by the project inspector when specifically approved by DSA. (See Appendix (end of this form) for exemptions.)
M3b: Test Test post-installed anchors.	1705A.4, 1910A.5. (See Appendix (end of this form) for exemptions.)

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M4. OTHER MASONRY:	
Test or Special Inspection	Code References and Notes
M4a. Not used.	N/A
M4b. Not used.	N/A
M4c. Not used.	N/A
M4d. Not used.	N/A
M4e. Not used.	N/A
M4f. Not used.	N/A
M4g. Not used.	N/A
M4h. Not used.	N/A
M4j. Not used.	N/A
M4k. Not used.	N/A
M4m. Not used.	Not used.
M4n. Not used.	Not used.

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S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	
Test or Special Inspection	Code References and Notes
S/A1a: Material Identification Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100 Section A3.1 & A3.2, AISI S240 Section A3 & A5, AISI S220 Sections A4 & A6. *By special inspector or qualified technician when performed off-site.
S/A1b: Unidentified Material Test unidentified materials	2202A.1.
S/A1c: Steel Fabrication Verify and document steel fabrication per DSA- approved construction documents.	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
S/A1d: Buckling Restrained Brace Verify and document steel fabrication per DSA-approved construction documents.	Testing and special inspections in accordance with IR 22-4. For DSA accepted fabrication shops, BRB manufacturer's Certificate of Compliance in lieu of testing and special inspections. See IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:	
Test or Special Inspection	Code References and Notes
S/A2a: Product Verification Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360 Section A3.3, J3.1, and N3.2; RCSC Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
S/A2b: Bolts, Nuts, and Washers Test high-strength bolts, nuts and washers.	Table 1705A.2.1 Item 1c, 2213A.1; RCSC Section 7.2; DSA IR 17-8.
S/A2c: Snug Tight Bearing-type ("snug tight") connections.	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Section 9.1; DSA IR 17-9.
S/A2d: Pretensioned / Slip-Critical Pretensioned and slip-critical connections.	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Sections 9.2 & 9.3; DSA IR 17-9 **"Continuous" or "Periodic" depends on the tightening method used.

S/A3. WELDING:	
Test or Special Inspection	Code References and Notes
S/A3a: Weld Material Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
S/A3b: Certificate of Compliance Verify weld filler material manufacturer's certificate of compliance.	DSA IR 17-3.
S/A3c: WPS and Qualifications Verify WPS, welder qualifications and equipment.	DSA IR 17-3.

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S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	Code References and Notes
S/A4a: Weld Category A Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Table 1705A.2.1 Items 5a.1–4; AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
S/A4b: Weld Category B Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
S/A4c: Stairs and Railing Inspect welding of stairs and railing systems.	1705A.2.1; AISC 360 (and AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
S/A4d: Reinf. Steel Weldability Verification of reinforcing steel weldability other than ASTM A706.	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A4e: Reinforcing Steel Inspect welding of reinforcing steel.	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.
S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	Code References and Notes
S/A5a: Weld Category A Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Table 1705A.2.1 Items 5a.1–4; AISC 360 (AISC 341 as applicable); DSA IR 17-3.
S/A5b: Weld Category B Inspect single-pass fillet welds ≤ 5/16".	Table 1705A.2.1 Item 5a.5; AISC 360 (AISC 341 as applicable); DSA IR 17-3.
S/A5c: End Welded Studs Inspect end-welded studs (ASTM A-108) installation (including bend test).	2213A.2; AISC 360 (AISC 341 as applicable); AWS D1.1; DSA IR 17-3.
S/A5d: Deck Welds Inspect floor and roof deck welds.	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360 (AISC 341 as applicable); AWS D1.3; DSA IR 17-3.
S/A5e: Cold-Formed Steel Inspect welding of structural cold-formed steel.	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
S/A5f: Stairs and Railing Inspect welding of stairs and railing systems.	1705A.2.1; AISC 360 (AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
S/A5g: Reinf. Steel Weldability Verification of reinforcing steel weldability.	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A5h: Reinforcing Steel Inspect welding of reinforcing steel.	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

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S/A6. NONDESTRUCTIVE TESTING:	
Test or Special Inspection	Code References and Notes
S/A6a: Ultrasonic Ultrasonic	1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5; AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6b: Magnetic Particle Magnetic Particle	1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5; AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6c: Not used.	N/A
S/A6d: Not used.	N/A
S/A6e: Not used.	N/A

S/A7. STEEL JOISTS AND TRUSSES:	
Test or Special Inspection	Code References and Notes
S/A7a: Fabrication Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:	
Test or Special Inspection	Code References and Notes
S/A8a: Surface and Installation Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.
S/A8b: Density Test density.	1705A.15.1, 1705A.15.5, ASTM E605
S/A8c: Bond: Adhesion/Cohesion Bond strength adhesion/cohesion.	1705A.15.1, 1705A.15.6, ASTM E736

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S/A9. ANCHOR BOLTS AND ANCHOR RODS:	
Test or Special Inspection	Code References and Notes
S/A9a: Anchor Rods and Bolts Anchor Bolts and Anchor Rods	Identify, sample and test anchor bolts and anchor rods not meeting exemptions identified in Section 1 of IR 17-11.
S/A9b: Other Threaded Rods Threaded rod not used for foundation anchorage.	Identify, sample and test threaded rods not meeting exemptions identified in Section 1 of IR 17-11.

S/A10. STORAGE RACK SYSTEMS:	
Test or Special Inspection	Code References and Notes
S/A10a: Material Verification Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Table 1705A.13.7
S/A10b: Fabrication Fabricated storage rack elements.	1704A.2.5; Table 1705A.13.7
S/A10c: Anchorage Storage rack anchorage installation.	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
S/A10d: Completed System Completed storage rack system to indicate compliance with the approved construction documents.	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

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S/A11. Other Steel	
Test or Special Inspection	Code References and Notes
S/A11a. Not used.	N/A
S/A11b. Not used.	N/A
S/A11c. Not used.	N/A
S/A11d. Not used.	N/A
S/A11e. Not used.	N/A
S/A11f. Not used.	N/A
S/A11g. Not used.	N/A
S/A11h. Not used.	N/A
S/A11j. Not used.	N/A
S/A11k. Not used.	N/A
S/A11m. Not used.	Not used.
S/A11n. Not used.	Not used.

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W1. PREFABRICATED WOOD TRUSSES:	
Test or Special Inspection	Code References and Notes
W1a: Open Web Truss Fabrication Inspect fabrication of manufactured open-web trusses.	1705A.5.6 ; DSA IR 23-8.
W1b: Metal Plate Truss Fabrication Inspect fabrication of manufactured metal-plate- connected trusses.	1705A.5.6, 1705A.5.7 ; DSA IR 23-4.
W2. MANUFACTURED WOOD STRUCTURAL ELEMENTS:	
Test or Special Inspection	Code References and Notes
W2a: GLS Timber Fabrication Inspect fabrication of structural glued-laminated timber.*	* See 1705A.5.5 for exceptions
W2b: CLT Fabrication Inspect fabrication of cross-laminated timber.	1705A.5.5
W2c: Mass Timber Erection Inspect erection of mass timber.	Table 1705A.5.3 , Item 2
W2d: Connections Type A Inspect mass timber connections with threaded fasteners, bolts, and/or adhesive anchors other than described in item e below. Inspect concealed mass timber connections.	Table 1705A.5.3 , Items 3.1, 3.3, 3.4, 3.5. For threaded fasteners: Verify use of proper installation equipment. Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.
W2e: Connections Type B Inspect mass timber connections with adhesive anchors installed in a horizontal or upward orientation.	Table 1705A.5.3 , Item 3.2
W2f: Sealants Inspect application of sealants or adhesives applied to mass timber elements.	1705A.20

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W3. OTHER Wood:	
Test or Special Inspection	Code References and Notes
W3a. Not used.	N/A
W3b. Not used.	N/A
W3c. Not used.	N/A
W3d. Not used.	N/A
W3e. Not used.	N/A
W3f. Not used.	N/A
W3g. Not used.	N/A
W3h. Not used.	N/A
W3j. Not used.	N/A
W3k. Not used.	N/A
W3m. Not used.	Not used.
W3n. Not used.	Not used.

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X1. OTHER:	
Test or Special Inspection	Code References and Notes
X01. Load test for identified product(s):	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
X02. Installation torque for non-HS bolts on communication tower identified as essential service facility projects (ESFP).	Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications. *EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
X03. Not used.	N/A
X04. Not used.	N/A
X05. Not used.	N/A
X06. Not used.	N/A
X07. Not used.	N/A
X08. Not used.	N/A
X09. Not used.	N/A
X10. Not used.	N/A

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EXEMPTIONS

SOILS - EXEMPTIONS:

Soils: Eligible shallow foundation elements | Shallow foundations, are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception Item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC, Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill with depth not exceeding 12". These exempt structures shall be identified on the approved construction documents.

Soils: Eligible deep foundation elements, Type 1 | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.). These exempt structures shall be identified on the approved construction documents.

Soils: Eligible deep foundation elements Type 2 | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) single-story open fabric shade structure, or B) covered walkway structure with an apex height less than 10'-0" above adjacent grade. These exempt structures shall be identified on the approved construction documents.

CONCRETE/MASONRY - EXEMPTIONS:

Concrete/Masonry: Eligible post-installed anchors | Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment – see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below.

Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2. | Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4. | Epoxy shear dowels in site flatwork and/or other nonstructural concrete.

Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2. | Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. These exempt structures shall be identified on the approved construction documents.

Masonry: Freestanding site walls and retaining walls per DSA IR 21-1. | Freestanding and site retaining masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.

Eligible precast elements | Structural tests and special inspections are not required for the following concrete precast elements. Provide a certificate of compliance at delivery. Exemptions shall be identified on the approved construction documents.

1. Underground vaults no greater than 5 feet x 5 feet x unlimited height and pipe manufactured to an ASTM standard, 5 foot or less in diameter.
2. Elements manufactured in a PCI or NPCA certified manufacturing plant:

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Appendix: LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

- | | |
|----|---|
| A. | Underground vaults no greater than 16 feet in both length and width, of unlimited height, not subject to loading greater than HS 20-44. |
| B. | Pipe. |
| C. | Stair treads, landing planks. |

WELDING - EXEMPTIONS:

Welding: Eligible fences and gates | Fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade.

Welding: Eligible railing and ramps | Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade; fillet welds shall not be ground flush.

Welding: Eligible interior cold-formed steel framing | Non-bearing non-shearwall interior cold-formed steel framing spanning less than 15'-0" in height and header less than 10'-0" in opening width, such as in interior partitions, interior soffits, etc.

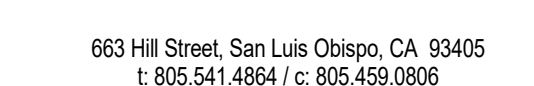
Welding: Eligible equipment curbs | Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection.)

Welding: Eligible components supporting MEP distribution systems | Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection.)

Welding: Eligible mounts and recreational equipment | TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection.)

Welding: Eligible nonstructural components | Any support for exempt non-structural components given in CBC Section 1617A.1.18 meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) $\leq 4'$ above supporting floor/roof, B) when hung from a wall or roof/floor, and <20# for discrete units or <5 plf for distributed systems.

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FACILITY INFO
SPRUCE ELEMENTARY SCHOOL
501 SPRUCE AVE, SOUTH SAN FRANCISCO, CA 94080

KEY PLAN

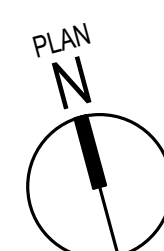


DRAFTER: Author	REVIEWER: XX
PM: YYY	DSK JOB NO: XX

SHEET NUMBER

 LIGHT FIXTURES
SEE ELECTRICAL DRAWINGS

1. CEILING HEIGHT IS +8'-0" U.O.N.
2. LIGHT FIXTURES LOCATED ABOVE FINISH FLOOR HEIGHT AT +8'-0" CLEAR, U.O.N.



1 NEW REFLECTED CEILING PLAN - ADMIN OFFICE
1/4" = 1'-0"