

DEVICES AND SYMBOLS SCHEDULE

ITEM NO.	DEVICE	SYMBOL	MOUNTING/REMARKS	DETAIL NO.
1	ALARM CONTACT		CONCEALED ON DOOR FRAME	A/SE-3.1
			ON ROOF HATCH	C/SE-3.1
2	ARMING STATION		WALL MOUNTED	D/SE-3.1
3	CARD READER		ON WALL	E/SE-3.1
			ON PEDESTAL	H/SE-3.1
4	MOTION DETECTOR		ON CEILING	F/SE-3.1
			ON WALL	G/SE-3.1
5	REQUEST TO EXIT		BUILT INTO LEVER OR PANIC	-
			ON CEILING	B/SE-3.1
6	ELECTRIFIED DOOR HARDWARE		NISC REFER TO SECTION 08710	-
	ELECTRIC LOCK			
	ELECTRIFIED PANIC POWER BOOSTER			
7	CCTV CAMERA		CAMERA FLUSHED INTO DROP CEILING	B/SE-3.2
			CAMERA UNDER ENTRY CANOPY	C/SE-3.2
			CAMERA ON WALL	D/SE-3.2
			CAMERA LOOKING DOWN	B/SE-3.2
8	360° CAMERA		CAMERA LOOKING AWAY	A/SE-3.2
9	MONITOR		MOUNTED ON WALL	J/SE-3.1
10	MULTIPLEXER		MOUNTED ON DESKTOP	-
11	CONTROL KEYBOARD (FOR VIDEO MATRIX SWITCHER)		MOUNTED ON DESKTOP	-
12	AUTO DOOR OPERATOR PUSH PLATE		NISC BY DOOR CONTRACTOR (087100)	-

SHEET INDEX

SHEET NO.	TITLE
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SE-1.0	TITLE SHEET	X	X	X	X	X	X	X	X	-	X
SE-1.1	SECURITY SYSTEM BLOCK WIRING DIAGRAM & EQUIPMENT LIST	-	-	X	X	X	X	X	X	X	X
SE-2.S	SITE SECURITY DEVICE LAYOUT PLAN	-	X	X	X	X	X	X	X	-	X
SE-2.1	FIRST FLOOR SECURITY DEVICE LAYOUT PLAN	X	X	X	X	X	X	X	X	-	X
SE-3.1	DETAILS (SHEET 1)	-	-	-	X	X	X	X	X	-	X
SE-3.2	DETAILS (SHEET 2)	-	-	-	X	X	X	X	X	-	X
SE-4.1	DOOR ELEVATIONS	-	-	-	X	X	X	X	X	-	X
SE-4.2	PANEL AND RACK ELEVATIONS	-	-	-	X	X	X	X	X	-	X

Approved By:

Nathan Bray
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SUBMITTAL#

City Project 12-60D
Turlock Regional Transit Center
CCTV and Access Control
1418 N. Golden State Blvd.
Turlock, CA 945380

PROJECT DETAILS

PLN PROJECT NO: 1403
SUBMITTAL DATE:

PROJECT REVISIONS

[illegible]

SHEET DETAILS

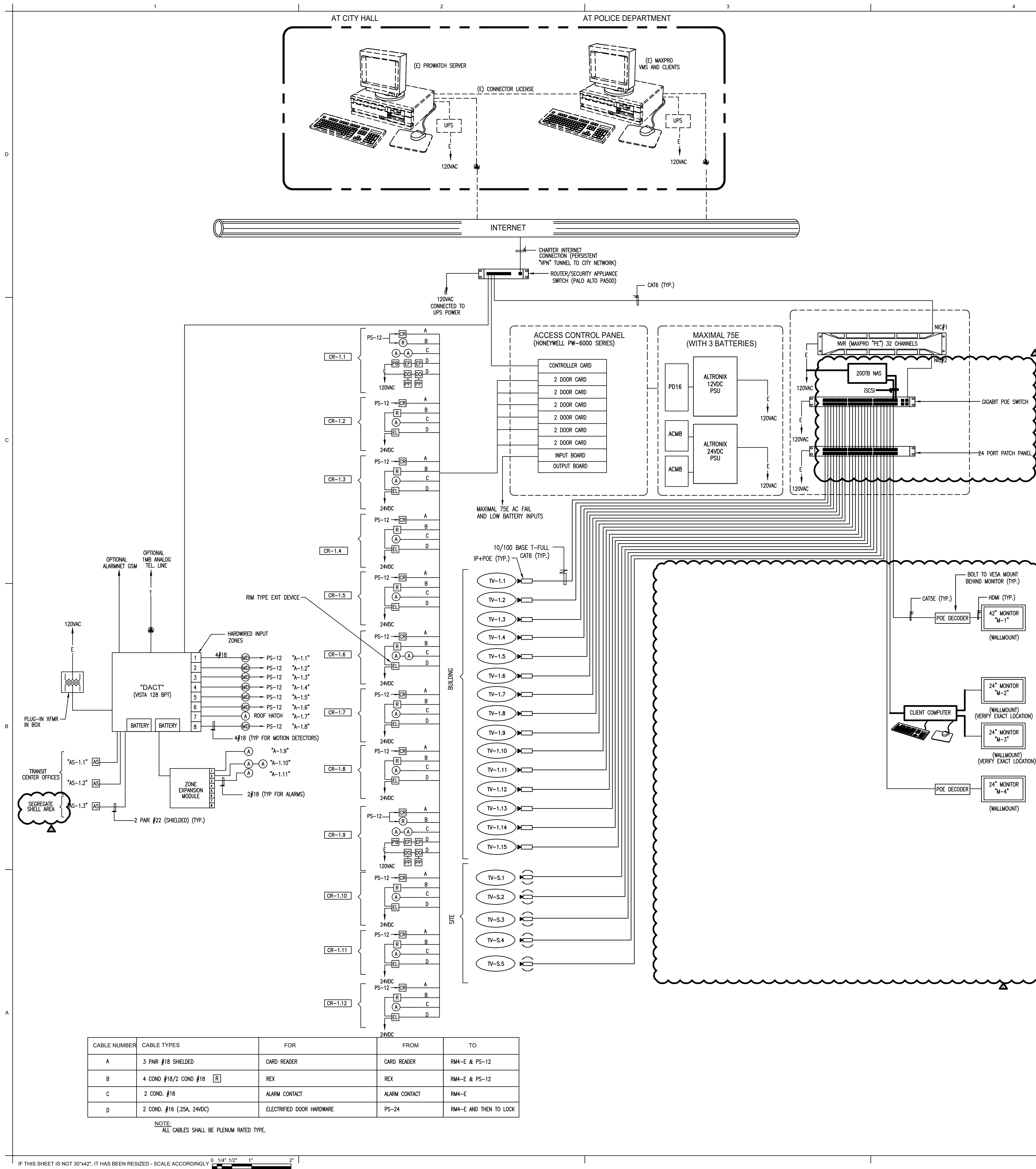
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SHEET TITLE

TITLE SHEET

SHEET NUMBER

SE-1.0



CAMERA NO.	GROUP	VARIFOCAL LENS	DETAIL ON SE-3.2	CALL-UP DEVICE	COMMENTS
TV-S.1	I	360-FISHEYE	A	-	360- UNDER CANOPY
TV-S.2	I	360-FISHEYE	A	-	360- UNDER CANOPY
TV-S.3	I	360-FISHEYE	A	-	360- UNDER CANOPY
TV-S.4	I	360-FISHEYE	A	-	360- UNDER CANOPY
TV-S.5	I	360-FISHEYE	A	-	360- UNDER CANOPY
TV-1.1	III	2.7-12mm	C	CR-1.1	UNDER ENTRY CANOPY
TV-1.2	III	2.7-12mm	C	-	UNDER ENTRY CANOPY - VIEWS BUS DROP OFF
TV-1.3	III	2.7-12mm	C	-	UNDER ENTRY CANOPY - VIEWS BUS DROP OFF
TV-1.4	III	2.7-12mm	B	A-1.1	ON DROP CEILING
TV-1.5	III	2.7-12mm	B	A-1.2	ON DROP CEILING
TV-1.6	III	2.7-12mm	B	A-1.2	ON DROP CEILING
TV-1.7	III	2.7-12mm	C	A-1.2	ON DROP CEILING
TV-1.8	III	2.7-12mm	C	CR-1.5	UNDER CANOPY VIEWS STAFF DOOR
TV-1.9	III	2.7-12mm	C	CR-1.9	UNDER ENTRY CANOPY
TV-1.10	III	2.7-12mm	C	CR-1.6/1.7/1.8	UNDER ENTRY CANOPY
TV-1.11	III	2.7-12mm	C	-	UNDER ENTRY CANOPY - VIEWS BUS DROP OFF
TV-1.12	III	2.7-12mm	C	-	UNDER ENTRY CANOPY - VIEWS BUS DROP OFF
TV-1.13	IV	2.7-12mm	C	-	LOOKING AT LOBBY
TV-1.14	IV	2.7-12mm	D	-	LOOKING AT LOBBY
TV-1.15	IV	2.7-12mm	D	-	LOOKING AT LOBBY

CAMERA GROUPS	
GROUP I - EXTERIOR - MINI-DOME UNDER BUS STOP CANOPY - DETAIL A/SE3.2	
CAMERA	HFD6GR1 360 DEGREE, 6MP, POE, IP CAMERA WITH IR
MOUNT	ON 4" SQUARE BOX WITH ADAPTER PLATE THAT COMES WITH CAMERA
FASTENERS	MCINGARD TAMPERPROOF SCREWS / BOLTS
GROUP II - INTERIOR - MINI-DOME ON DROP CEILING - DETAIL B/SE3.2	
CAMERA	HONEYWELL HSW4GR1
MOUNT	CAMERA COMES WITH CUT-IN BOX AND TRIM RING
FASTENERS	MCINGARD TAMPERPROOF SCREWS / BOLTS
GROUP III - EXTERIOR - MINI-DOME UNDER ENTRY CANOPY - DETAIL C/SE3.3	
CAMERA	HONEYWELL HSW4GR1
MOUNT	ON 4" SQ BOX FLUSH MOUNT ON METAL PANEL CEILING ON UNDERSIDE OF CANOPY WITH ADAPTER PLATE THAT COMES WITH CAMERA
FASTENERS	MCINGARD TAMPERPROOF SCREWS / BOLTS
GROUP IV - INTERIOR - MINI-DOME ON WALL - DETAIL D/SE3.2	
CAMERA	HONEYWELL HSW4GR1
MOUNT	HDS-MK2
FASTENERS	MCINGARD TAMPERPROOF SCREWS / BOLTS

EQUIPMENT DESCRIPTION	BRAND NAME / MODEL NO.	QTY	COMMENTS
ACCESS CONTROL			
ACP			
ENCLOSURE	HONEYWELL PWSK2ENC1	1	9 CARD CAPACITY
DAISY CHAIN CABLE	HONEYWELL PWSK1DC3C	1	FOR PWSK2ENC1
POWER SUPPLY	HONEYWELL PWSK2EPS	1	FOR PWSK2ENC1
BATTERY	HONEYWELL 712BNP	1	12V 7AH
INTELLIGENT CONTROLLER	HONEYWELL PWSK1IC	1	SUPPORTS 32 READER & I/O CARDS
DUAL READER MODULE	HONEYWELL PWSK1R2	6	2 IN X 2 OUT PER READER
INPUT MODULE	HONEYWELL PWSK1IN	1	16 INPUT MODULE
OUTPUT MODULE	HONEYWELL PWSK1OUT	1	12 OUTPUT MODULE
POWER SUPPLY			
ENCLOSURE WITH PS	ALTRONIX MAXIMAL 75E	1	10 AMP @ 12VDC + 30A @ 24VDC CLASS II
12VDC DISTRIBUTION CARDS	ALTRONIX PD16W	1	16 FUSED 12VDC DISTRIBUTION CIRCUITS
24VDC DISTRIBUTION CARDS	ALTRONIX ACM8	2	16 FUSED 24VDC DISTRIBUTION CIRCUITS
BATTERIES	YUASA NP7-12	3	FOR BOTH 12 & 24 VDC
DOOR DEVICES			
CARD READER	HONEYWELL OP4DHNR	11	ON SINGLE GANG BOX
CARD READER	HONEYWELL OP4DHNR	1	ON WALL/ON
REQUEST TO EXIT	SPECIFIED IN 087100	LOT	BUILT INTO LEVER OR PANIK
REQUEST TO EXIT	HONEYWELL 0-000-361-01 OR 02	2	MOTION DETECTOR - MATCH COLOR - LOBBY DOORS
DOOR CONTACTS	INTERLOGIX SENTROL 1078W-N	15	CONCEALED IN DOOR/FRAME
SOFTWARE LICENSES			
SINGLE USER ADD-ON	HONEYWELL PWSK2WCL		LOCAL
32 READER ADD-ON	HONEYWELL PWSK2R32	1	TO PROWATCH SERVER
INTRUSION ALARM			
DACT			
PANEL	HONEYWELL VISTA 128BPT	1	ALL ZONES SUPERVISED
KEYPAD / ARMING STATION	HONEYWELL 6160	3	INCLUDES ENCLOSURE WITH LOCK
8 ZONE EXPANDER MODULE	HONEYWELL 4208SN	1	ALPHANUMERIC KEYPAD
CELLULAR COMMUNICATOR	ALARMNET INTERNET-CELLULAR	1	SHARED WITH 32 READER
PLUG-IN TRANSFORMER	ADCEMO 138S	1	12V 7AH
BATTERY	HONEYWELL 712BNP	2	12V 7AH
SENSORS			
DOOR CONTACTS	INTERLOGIX 1078W-N	4	CONCEALED IN DOOR / FRAME
MOTION DETECTORS	BOSCH D558B2 OR HONEYWELL EQUAL	6	CEILING MOUNTED
MOTION DETECTORS	BOSCH D5915	1	WALL MOUNTED
TAMPER SWITCHES	INTERLOGIX 3005N / BOSCH D110	LOT	ON ALL SECURITY ENCLOSURES
SOFTWARE LICENSES			
VISTA PANEL LICENSE	HONEYWELL PWSK2STA1	1	TO INTEGRATE VISTA 128 PANEL

CAMERAS			
INDOOR CAMERA	HONEYWELL HSW4GR1	7	4MP, WDR, 2.7-12mm, 3IR LED'S, POE, H.264
INDOOR WALL MOUNT	HONEYWELL HD3-MK2	3	MOUNTS TO 4SQ BOX FLUSH ON WALL
OUTDOOR CAMERA	HONEYWELL HSW4GR1	8	1080P - 3.9mm AUTO-IRIS - D/N
OUTDOOR 360 DOME CAMERA	HONEYWELL HFD6GR1	5	6MP, OUTDOOR FISHEYE, IR, IP CAMERA, WDR, D/N, 1.7mm F2.0 FIXED FISHEYE LENS
CAMERA LICENSES	FOR MAXPRO PE NVR (1) HNM02GP + (1) HNM01UP	TOTAL OF 20	1 FOR EACH CAMERA
MONITORS			
DESKTOP MONITOR	PELCO PMCL 524BL OR DELL ULTRA SHARP	2	24" MONITOR-DESKTOP
WALL MOUNTED MONITOR	PELCO PMCL 524BL + PEERLESS PA 730 +ACCS01 (VESA 200x200) +WSP700/701	1	24" WALLMOUNT MONITOR
WALL MOUNTED MONITOR	PELCO PMCL 542BL + PEERLESS PA 730 +ACCS01 (VESA 200x200) +WSP700/701	1	42" WALLMOUNT MONITOR
VIDEO DECODER	IONODES R100	2	POE 4 CHANNEL DECODER
NVR	HONEYWELL HNMPE28324S	1	6K4 TB SAS RAID 5 / 6 INCLUDES CAMERA LICENSES
STORAGE MEMORY (16 BAY CHASSIS) (NAS)	INFORTREND GS3024B	1	RAID 6 TO MATCH NVR + DUAL CONTROLLER + DUAL PSU
MEMORY EXPANSION CHASSIS	INFORTREND 864	1	24 DRIVE CAPACITY
10 TB HARD DRIVE	INFORTREND	20	TOTAL OF 200 TB
BUNDLED HARDWARE + LICENSES, COMPUTER HARDWARE SPECIFICATION PER HONEYWELL RECOMMENDED SPECIFICATIONS: INCLUDE NVIDIA QUADRO P2000 CARD, SSD DRIVE, 512GB, 16GB RAM, CORE I7-7700K CPU, 800 WATTS PSU, LIQUID COOLED, INTEL GBT NIC CARD WITH KEYBOARD+MOUSE			
NVR WEB CLIENT	HONEYWELL MAXPRO VMS WEB CLIENT	1	
NETWORKING HARDWARE			
ROUTER & CONNECTIVITY	PALO ALTO PA500	1	
POE SWITCH	COMNET CNGE28X4TX2MSPDE+	1	24PORT GIGABIT POE MANAGED SWITCH
PATCH PANEL	PANDUIT NKP6PG24T	1	24PORT - CAT 6 - PATCH PANEL
		REFER TO	
ELECT.	CHATSORTH ENCLOSED SEISMIC RACK WITH PERFORATED DOORS WITH LOCKS	DWGS	4 POST - 19"EIA - 44RU - 30" DEEP, ANCHOR TO FLOOR, PROVIDE WIRE MANAGEMENT AND PDUS.
UPS	APC SURTA2200RMK12U	1	2.2 KVA - BACKMOUNT - 20 MINUTE BATTERY
MISCELLANEOUS			
CABLE	COMMSCOPE SYSTIMAX OR WEST PENN	LOT	PLENUM RATED
ACCESSORIES	AS REQUIRED	LOT	MOUNTING AND INTERFACING
SCREWS	MCGARD TAMPERPROOF SCREWS	LOT	ALL EXTERIOR EQUIPMENT (OUTSIDE THE BUILDING)
PEDESTAL	SS CUSTOM PEDESTAL	1	SUBMIT SHOP DRAWING FOR APPROVAL

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INC. 1908

SUBMITTAL#

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Turlock Regional Transit Center
CCTV and Access Control

1418 N. Golden State Blvd.
Turlock, CA 95380

PROJECT DETAILS

PLN PROJECT NO: 14031
SUBMITTAL DATE:

PROJECT REVISIONS

MARK	DATE	DESCRIPTION
▲	10/13/2017	OWNER REQUESTED CHANGES
▲	04/18/2018	OWNER REQUESTED UPDATES

SHEET DETAILS

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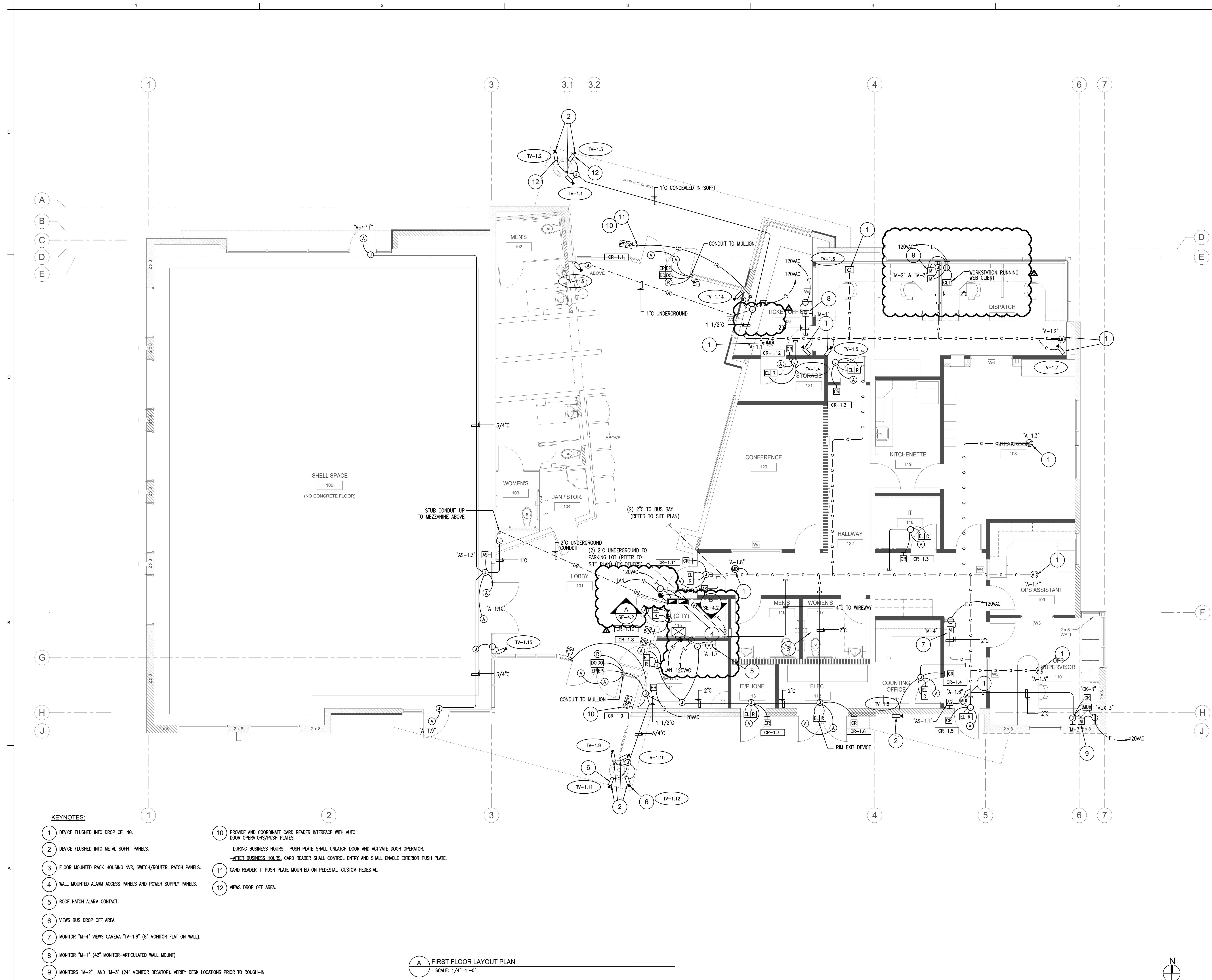
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SECURITY SYSTEM
BLOCK WRING
DIAGRAM &
EQUIPMENT LIST

SHEET NUMBER

SE-1.1

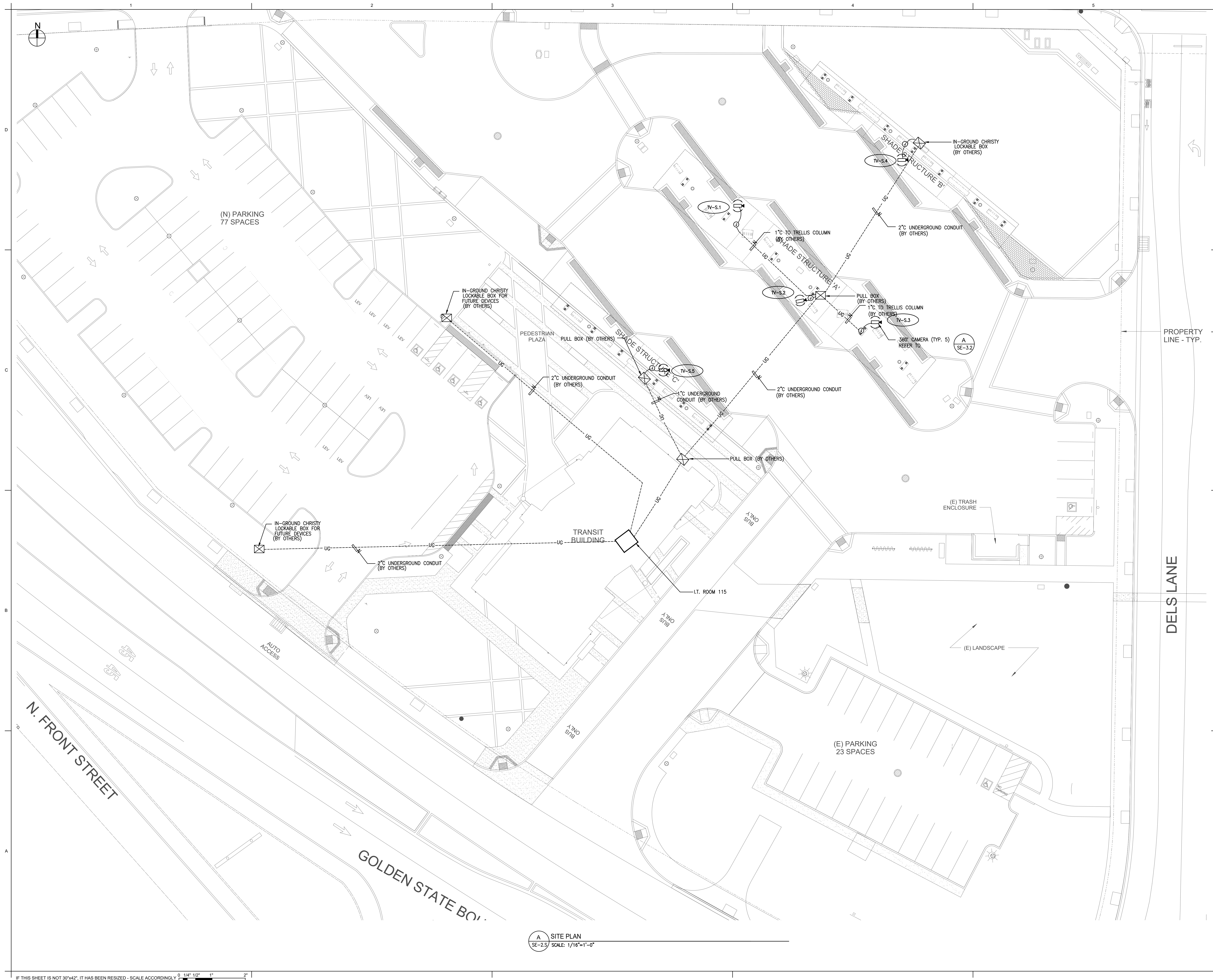
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KEYNOTES:

- 1 DEVICE FLUSHED INTO DROP CEILING.
- 2 DEVICE FLUSHED INTO METAL SOFFIT PANELS.
- 3 FLOOR MOUNTED RACK HOUSING NVR, SWITCH/ROUTER, PATCH PANELS.
- 4 WALL MOUNTED ALARM ACCESS PANELS AND POWER SUPPLY PANELS.
- 5 ROOF HATCH ALARM CONTACT.
- 6 VIEWS BUS DROP OFF AREA
- 7 MONITOR "M-4" VIEWS CAMERA "TV-1.8" (8" MONITOR FLAT ON WALL).
- 8 MONITOR "M-1" (42" MONITOR-ARTICULATED WALL MOUNT)
- 9 MONITORS "M-2" AND "M-3" (24" MONITOR DESKTOP). VERIFY DESK LOCATIONS PRIOR TO ROUGH-IN.
- 10 PROVIDE AND COORDINATE CARD READER INTERFACE WITH AUTO DOOR OPERATORS/PUSH PLATES.
-DURING BUSINESS HOURS, PUSH PLATE SHALL UNLATCH DOOR AND ACTIVATE DOOR OPERATOR.
-AFTER BUSINESS HOURS, CARD READER SHALL CONTROL ENTRY AND SHALL ENABLE EXTERIOR PUSH PLATE.
- 11 CARD READER + PUSH PLATE MOUNTED ON PEDESTAL. CUSTOM PEDESTAL.
- 12 VIEWS DROP OFF AREA.

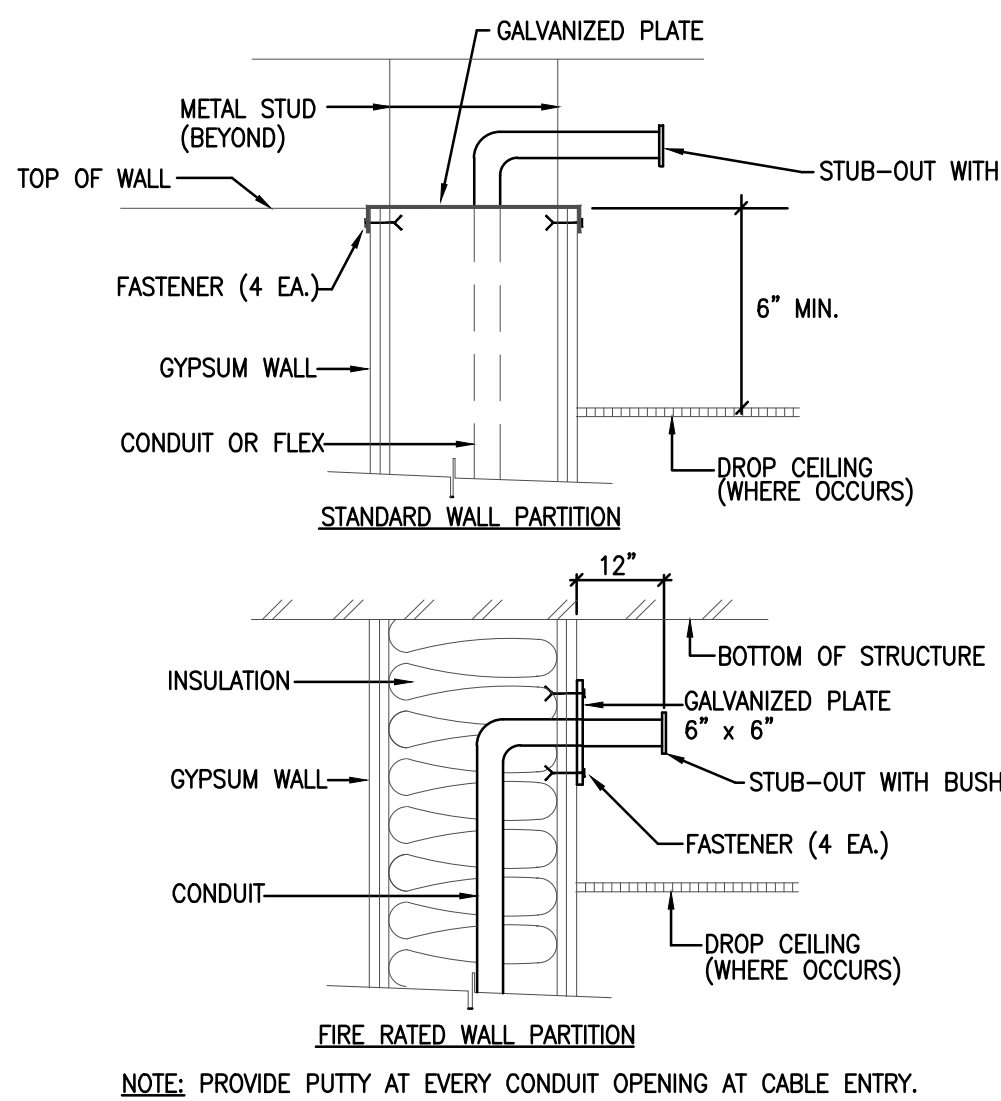
FIRST FLOOR LAYOUT PLAN
SCALE: 1/4"=1'-0"



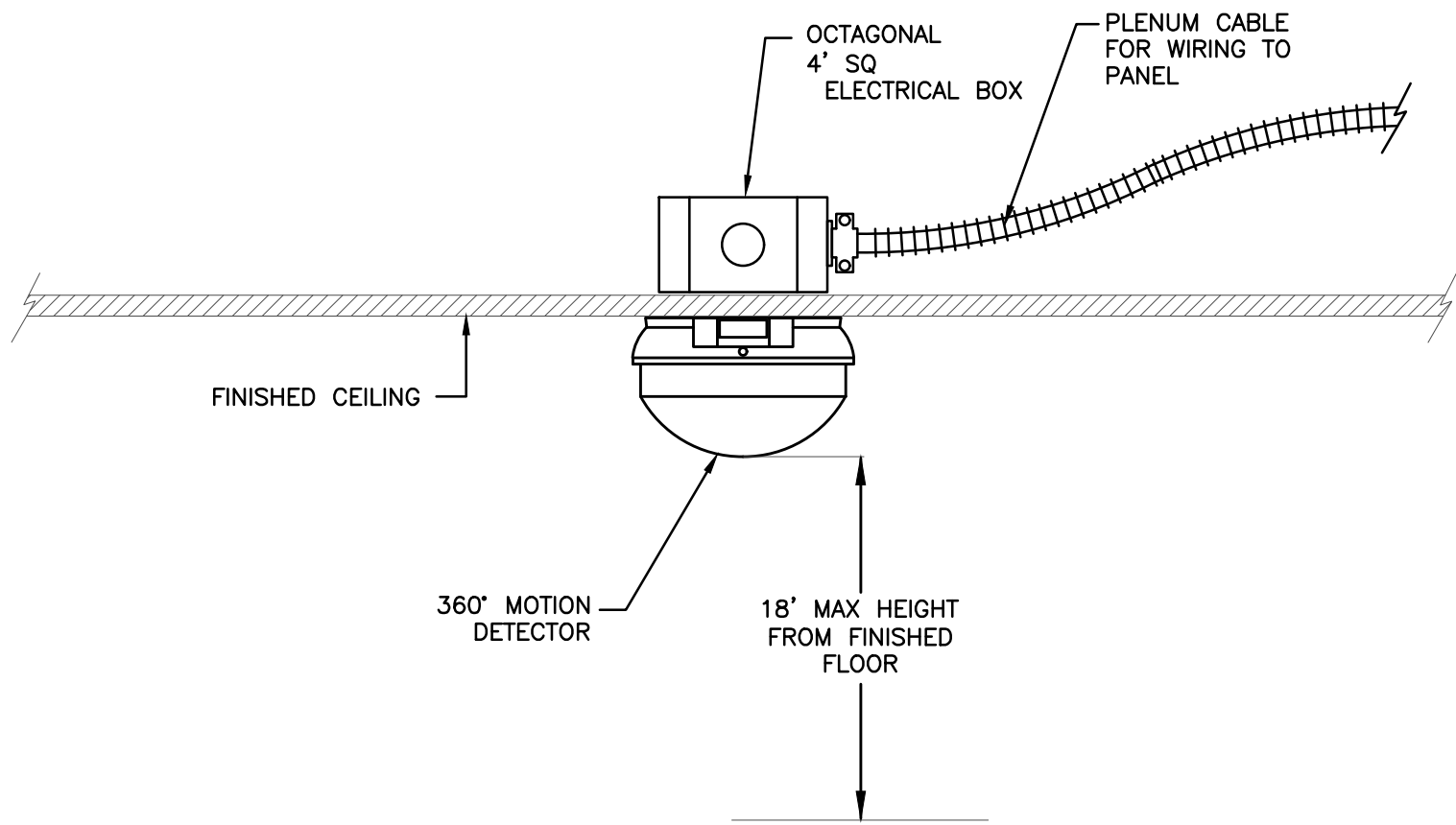
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A SITE PLAN
SE-2.S
SCALE: 1/16"=1'-0"

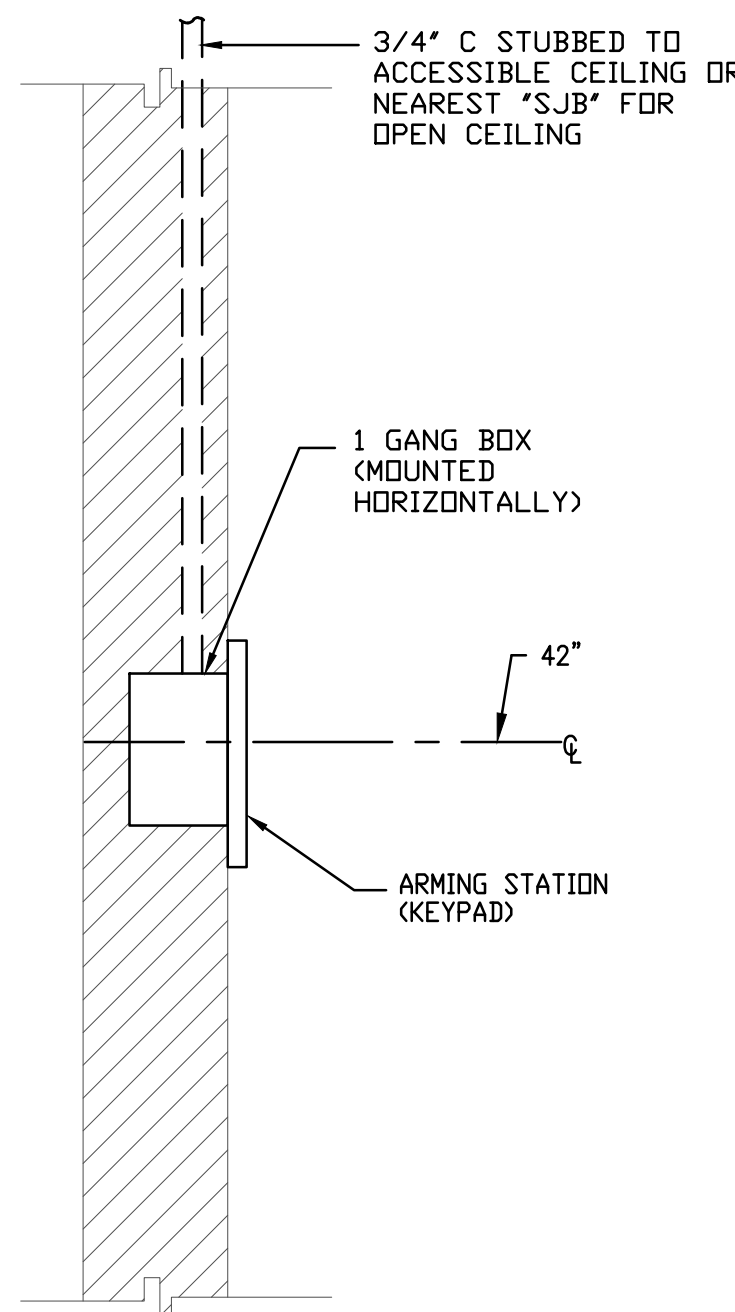
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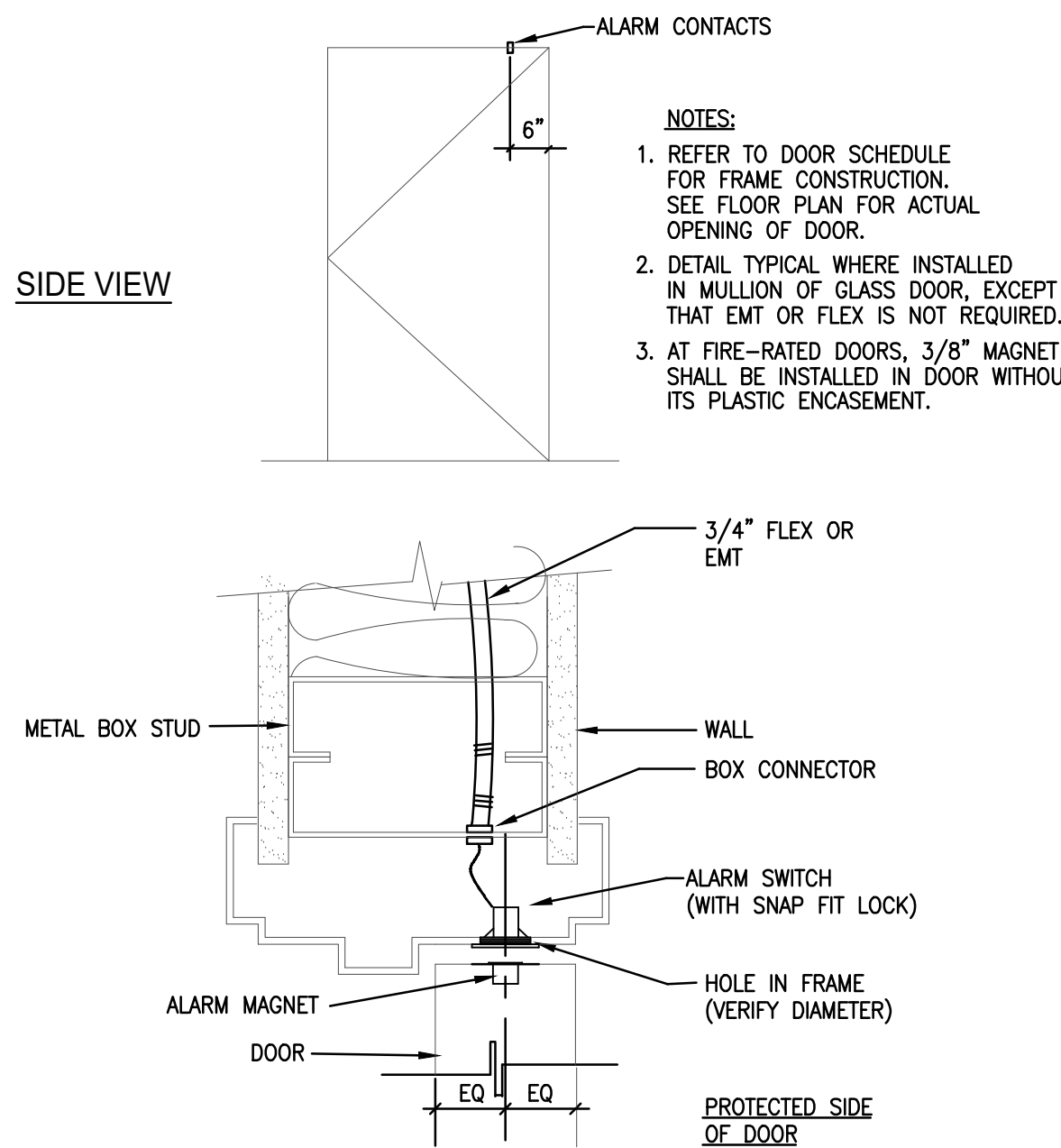
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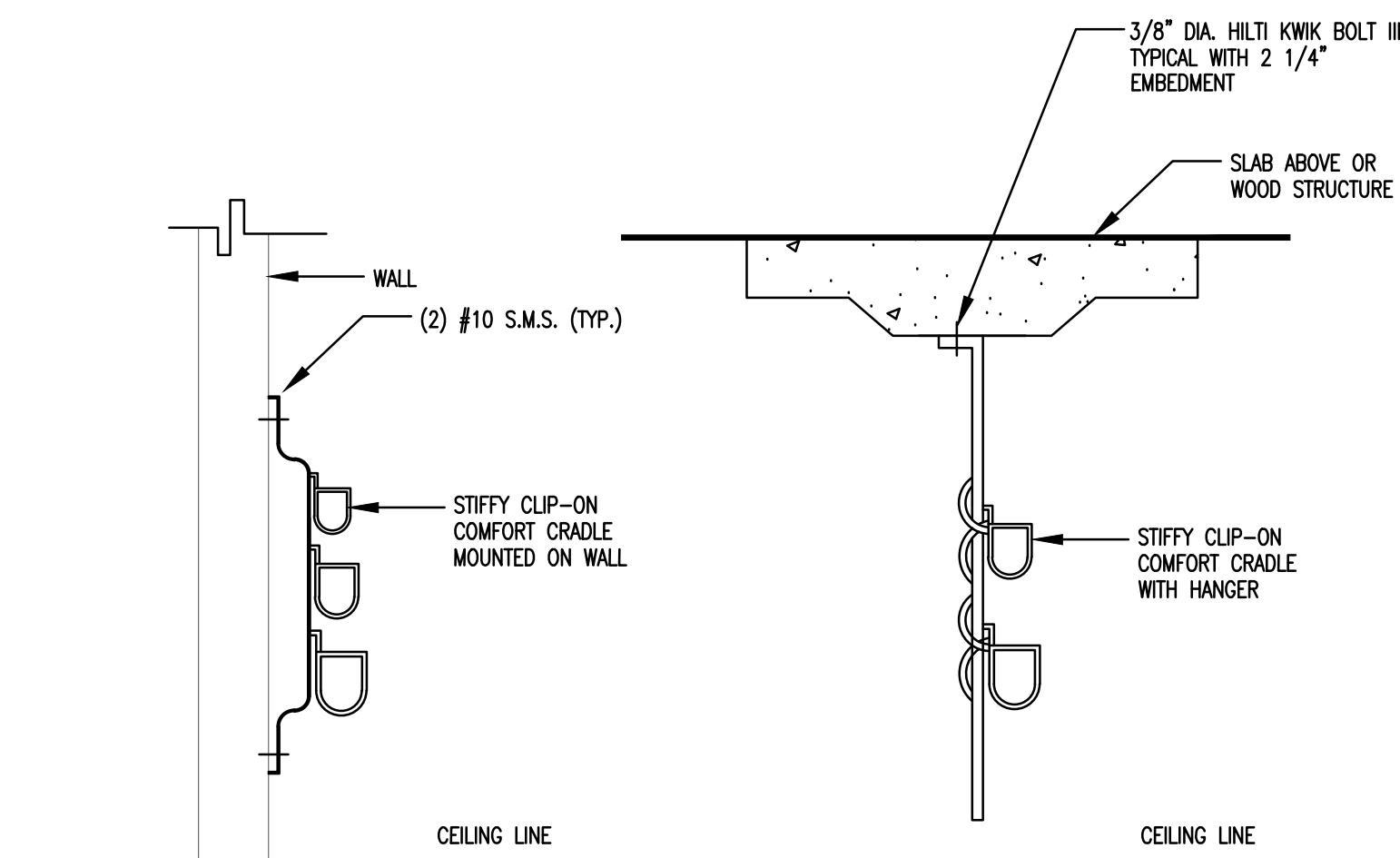
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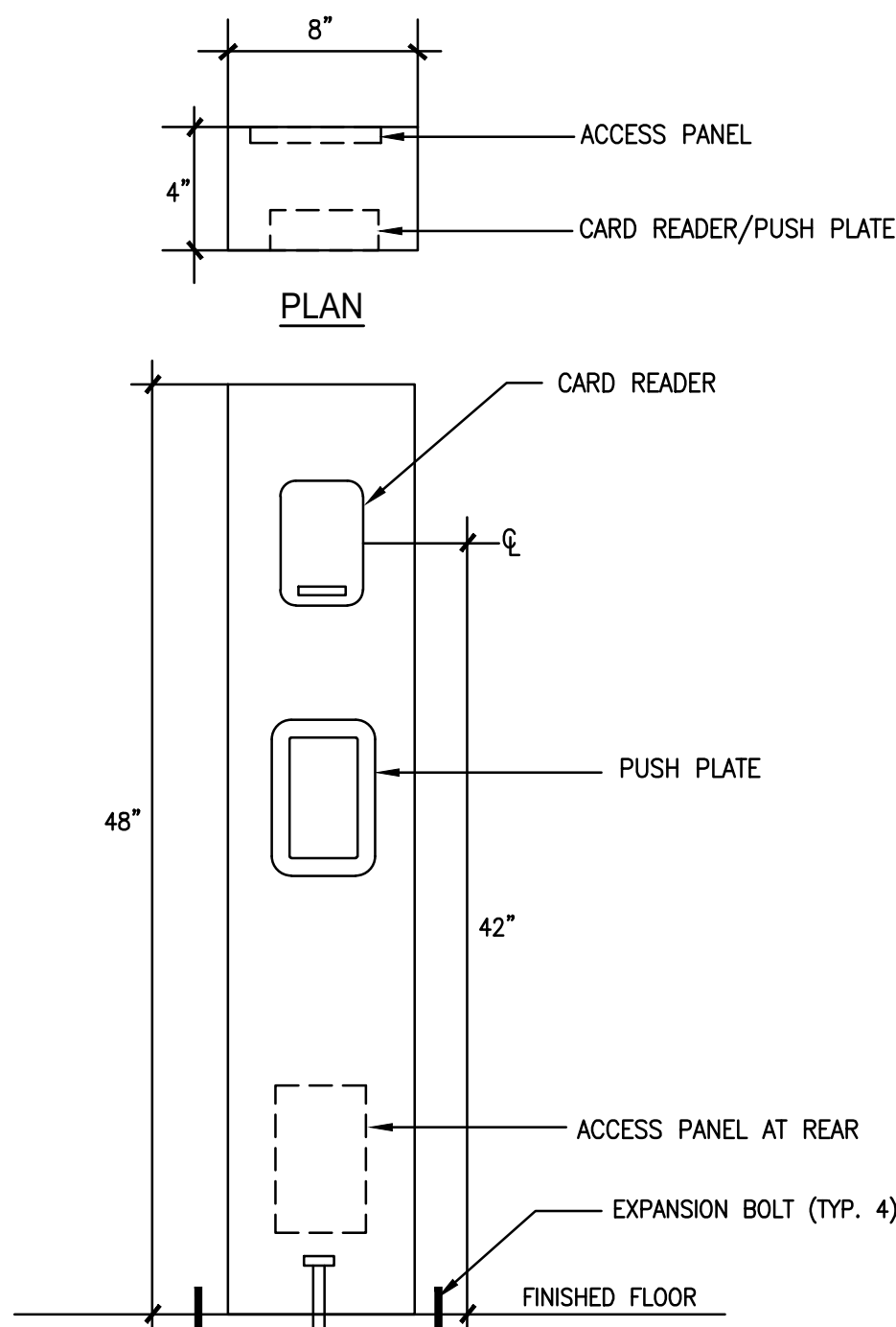
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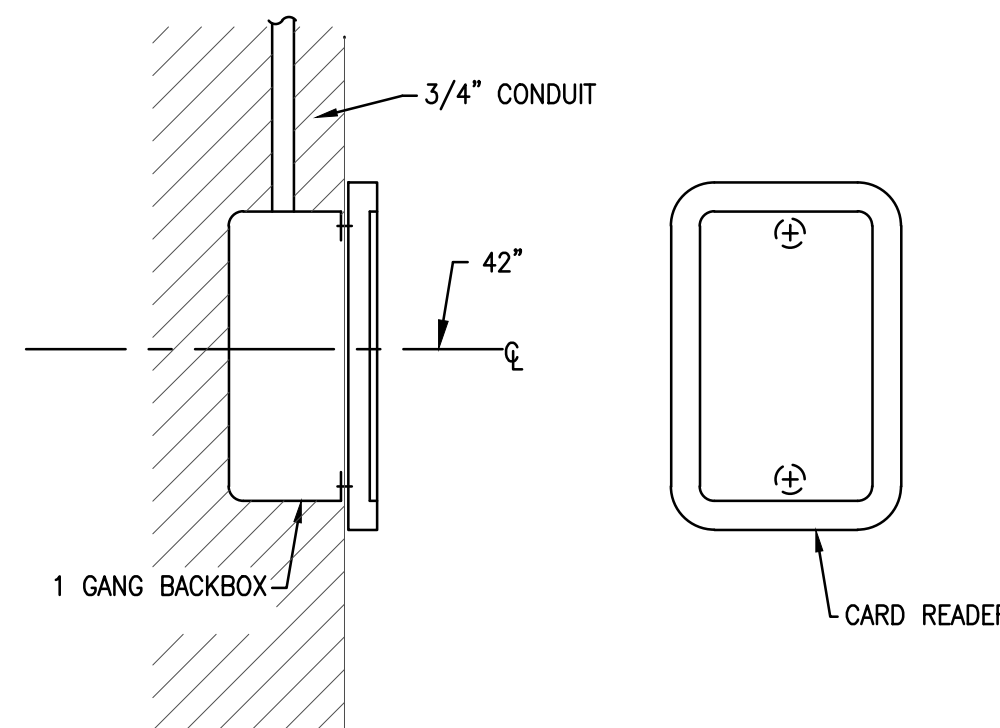
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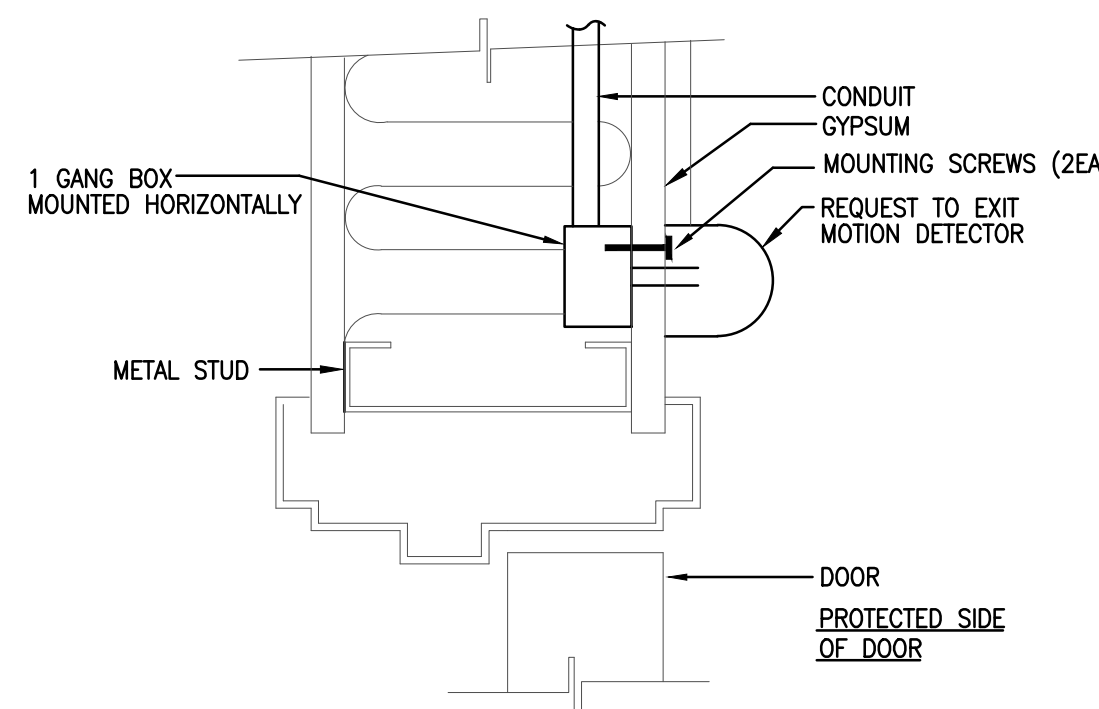
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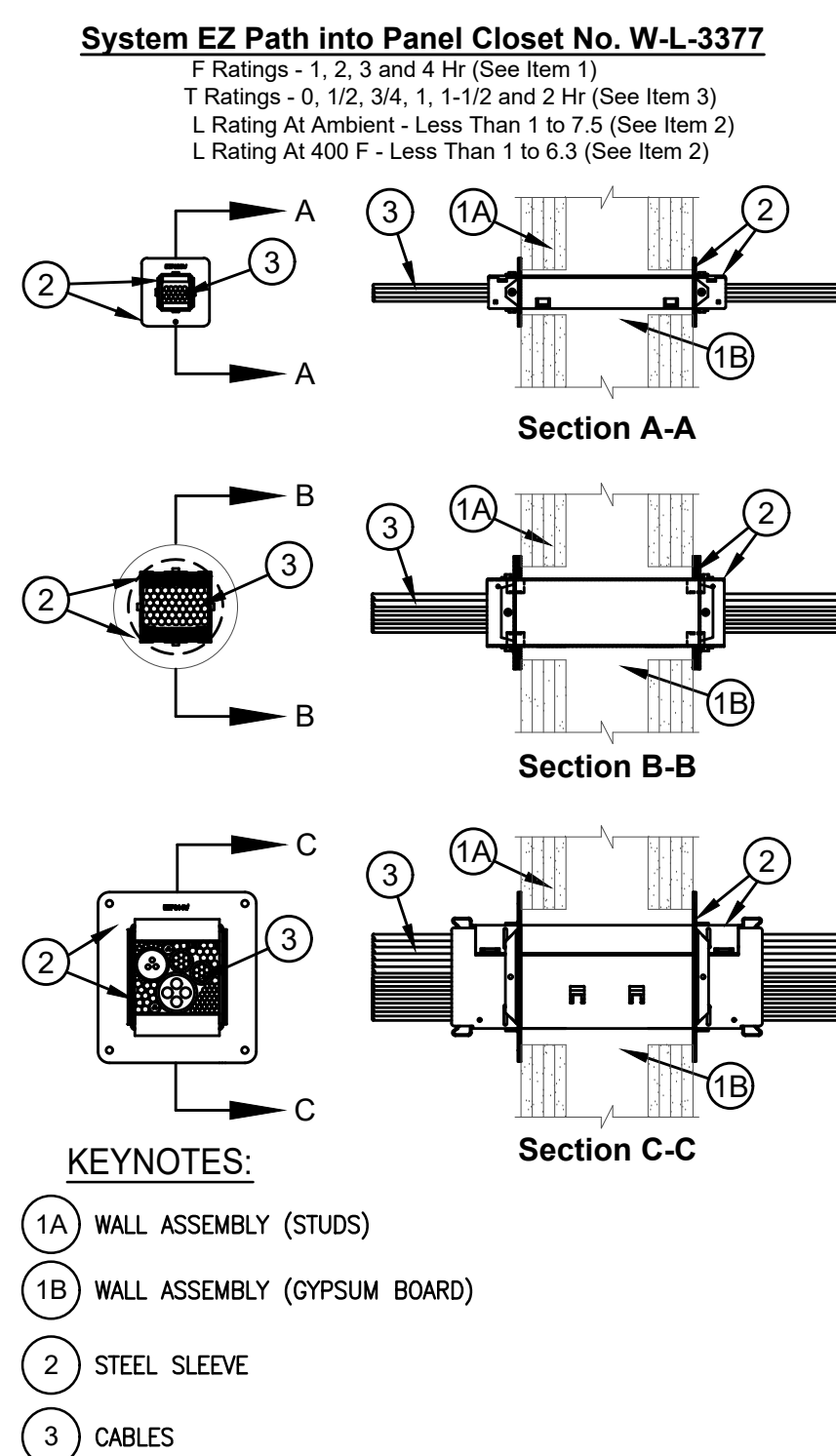
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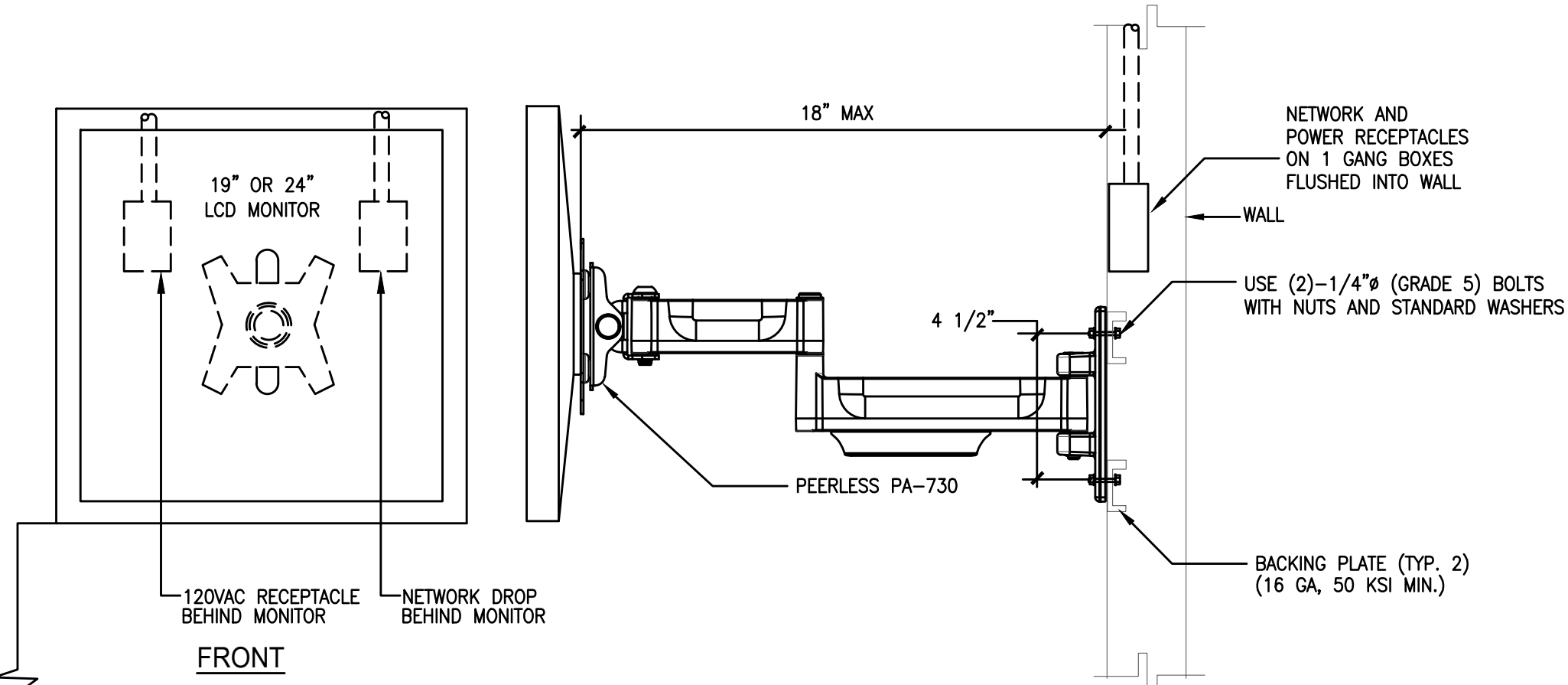
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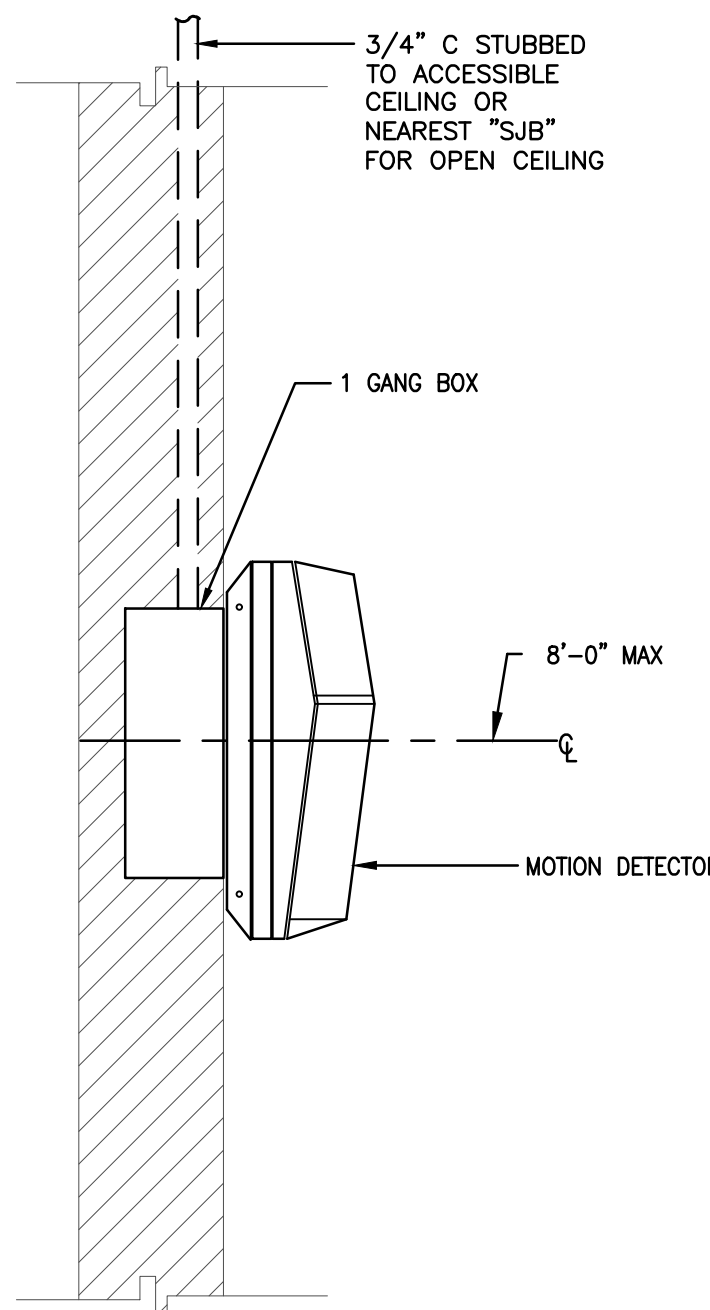
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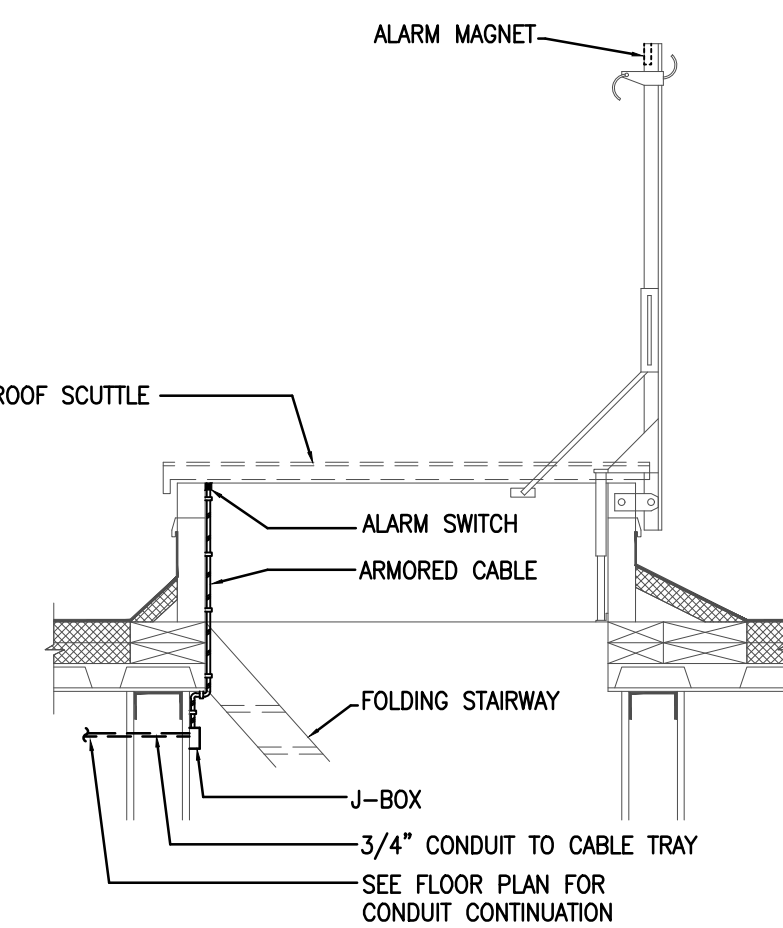
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N.T.S.



J
SE-3.1
N.T.S.



F
SE-3.1
N.T.S.



C
SE-3.1
N.T.S.



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SHEET DETAILS

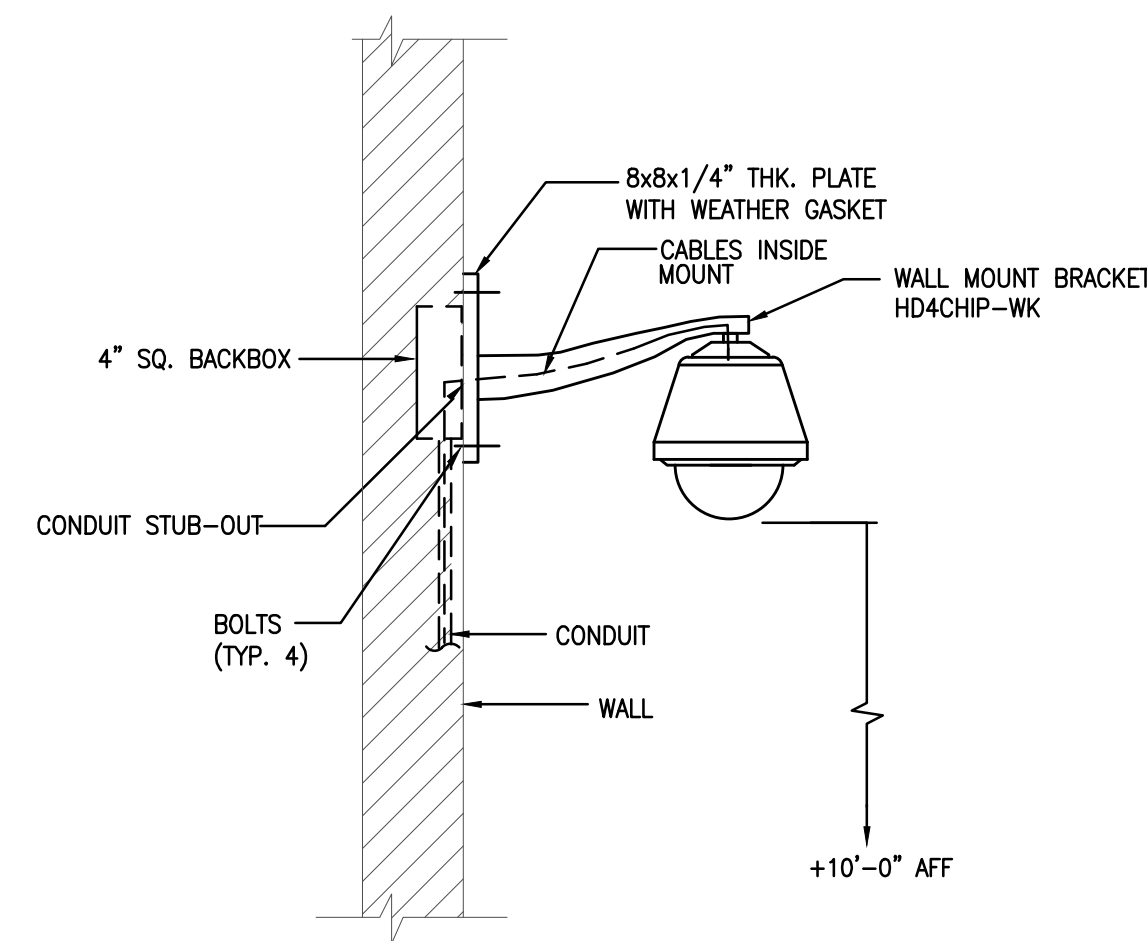
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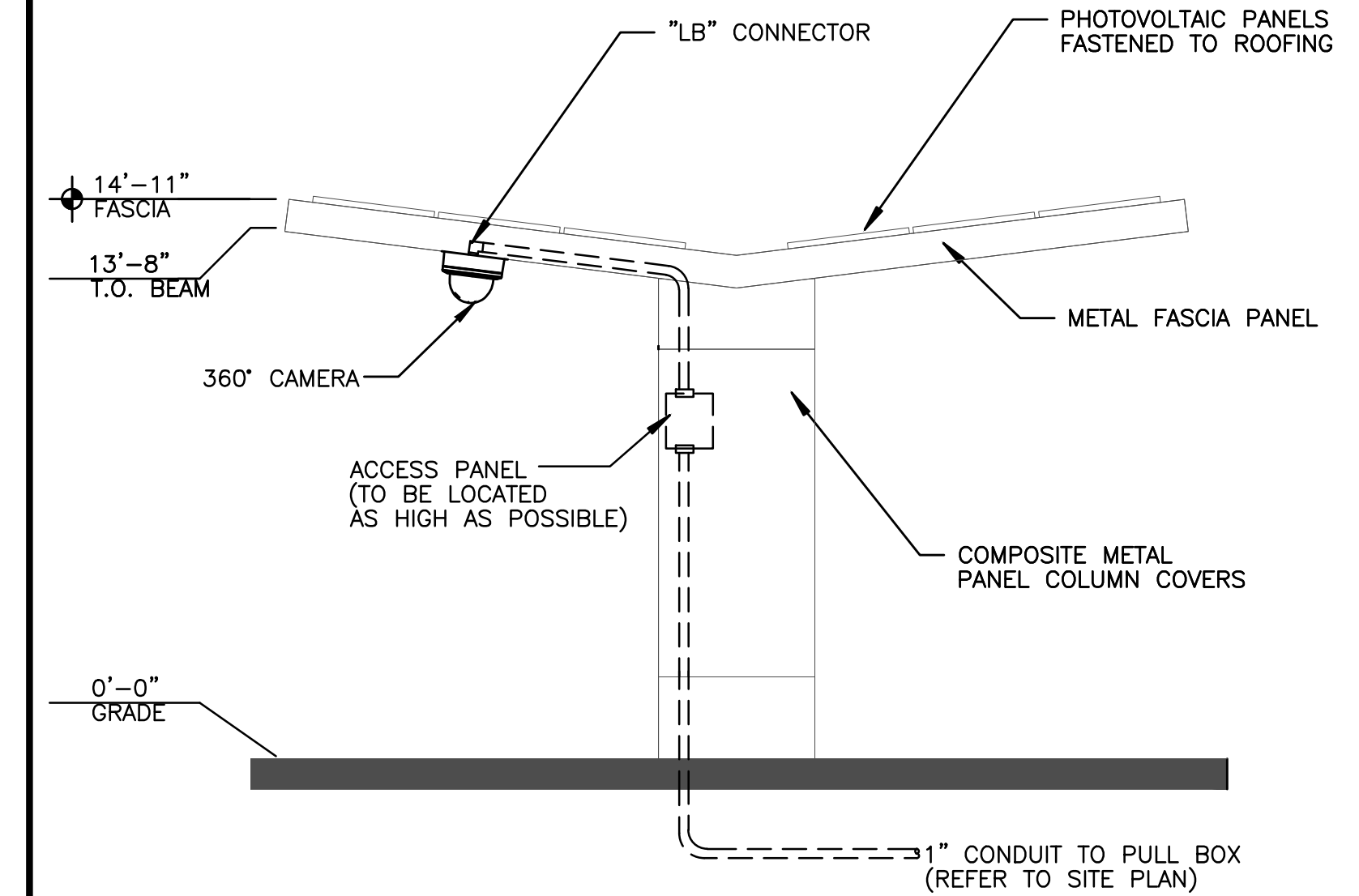
DETAILS (SHEET 2)

SHEET NUMBER

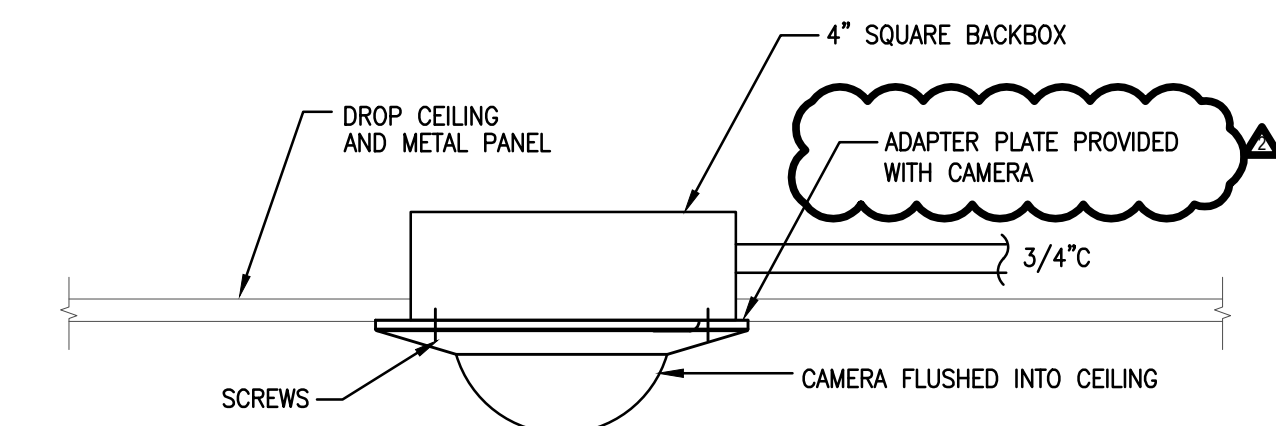
SE-3.2



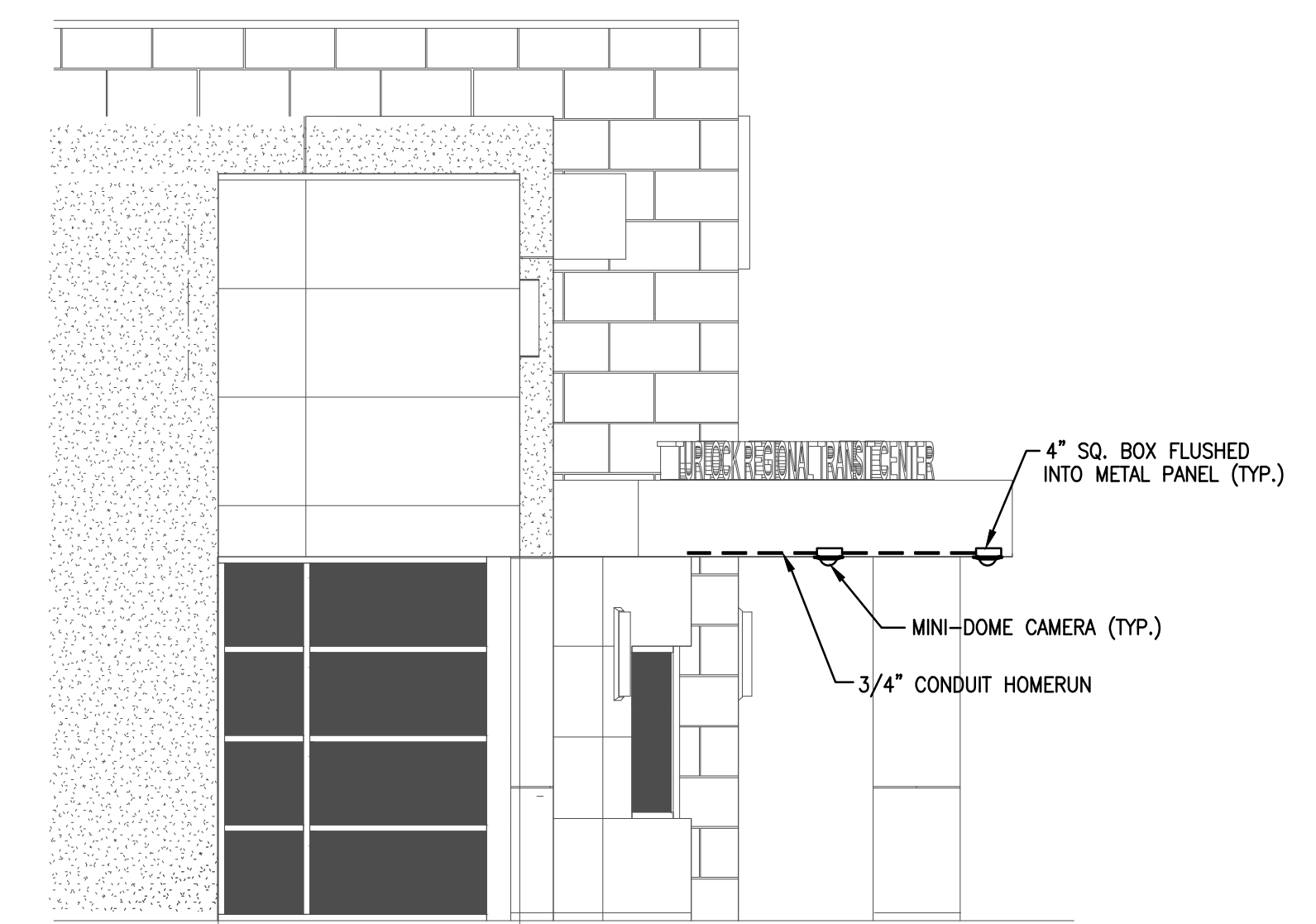
D WALL MOUNTED MINI-DOME CAMERA (EXTERIOR)
SE-3.1/ N.T.S.



A 360° CAMERA UNDER BUS CANOPY
SE-3.1/ N.T.S.



B MINI-DOME ON DROP CEILING
SE-3.1/ N.T.S.



C MINI-DOME UNDER ENTRY CANOPY
SE-3.1/ N.T.S.

K
SE-3.1/ N.T.S.

G
SE-3.1/ N.T.S.

J
SE-3.1/ N.T.S.

H
SE-3.1/ N.T.S.

E
SE-3.1/ N.T.S.

M
SE-3.1/ N.T.S.

J
SE-3.1/ N.T.S.

F
SE-3.1/ N.T.S.



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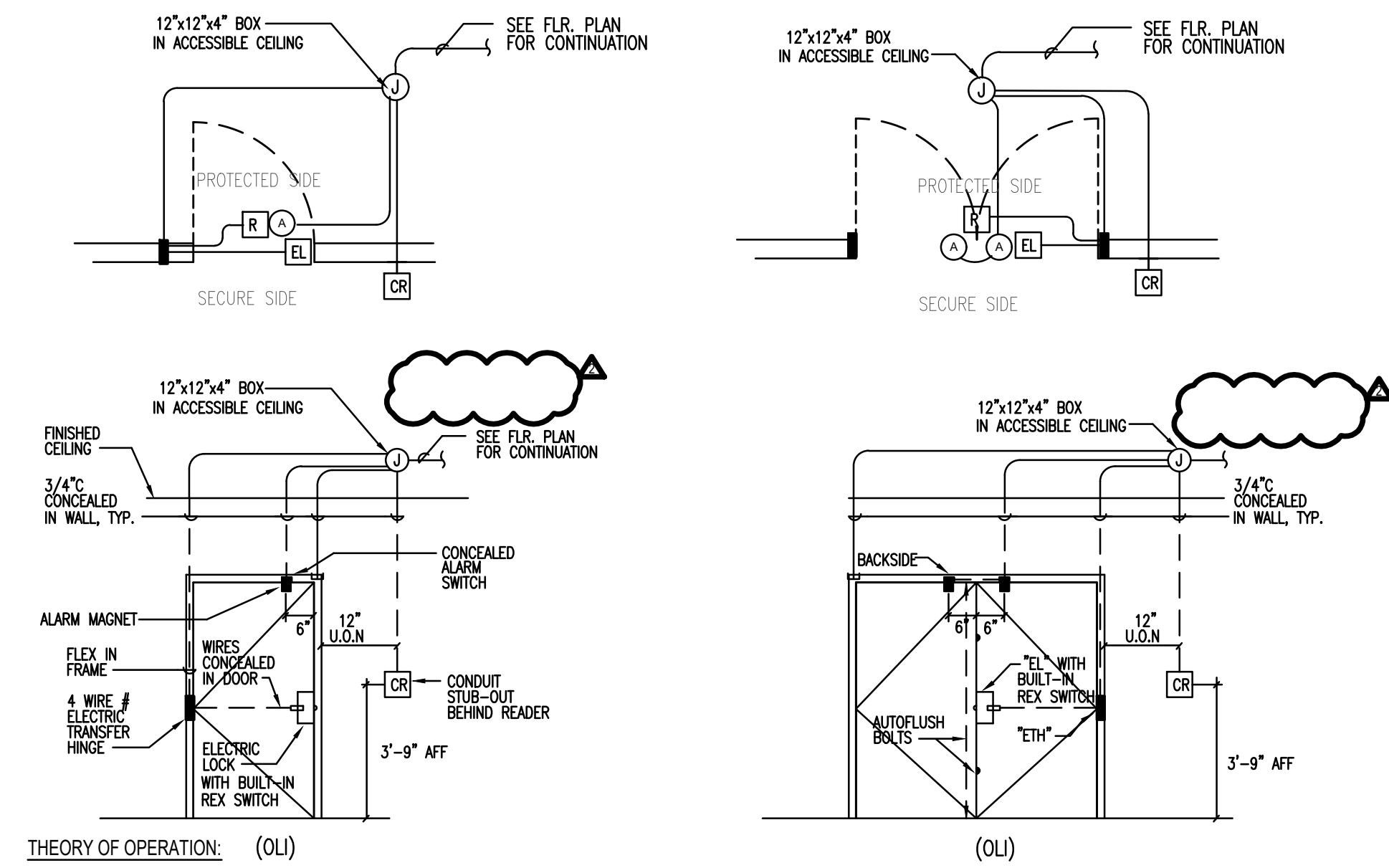
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SHEET TITLE

DOOR ELEVATIONS

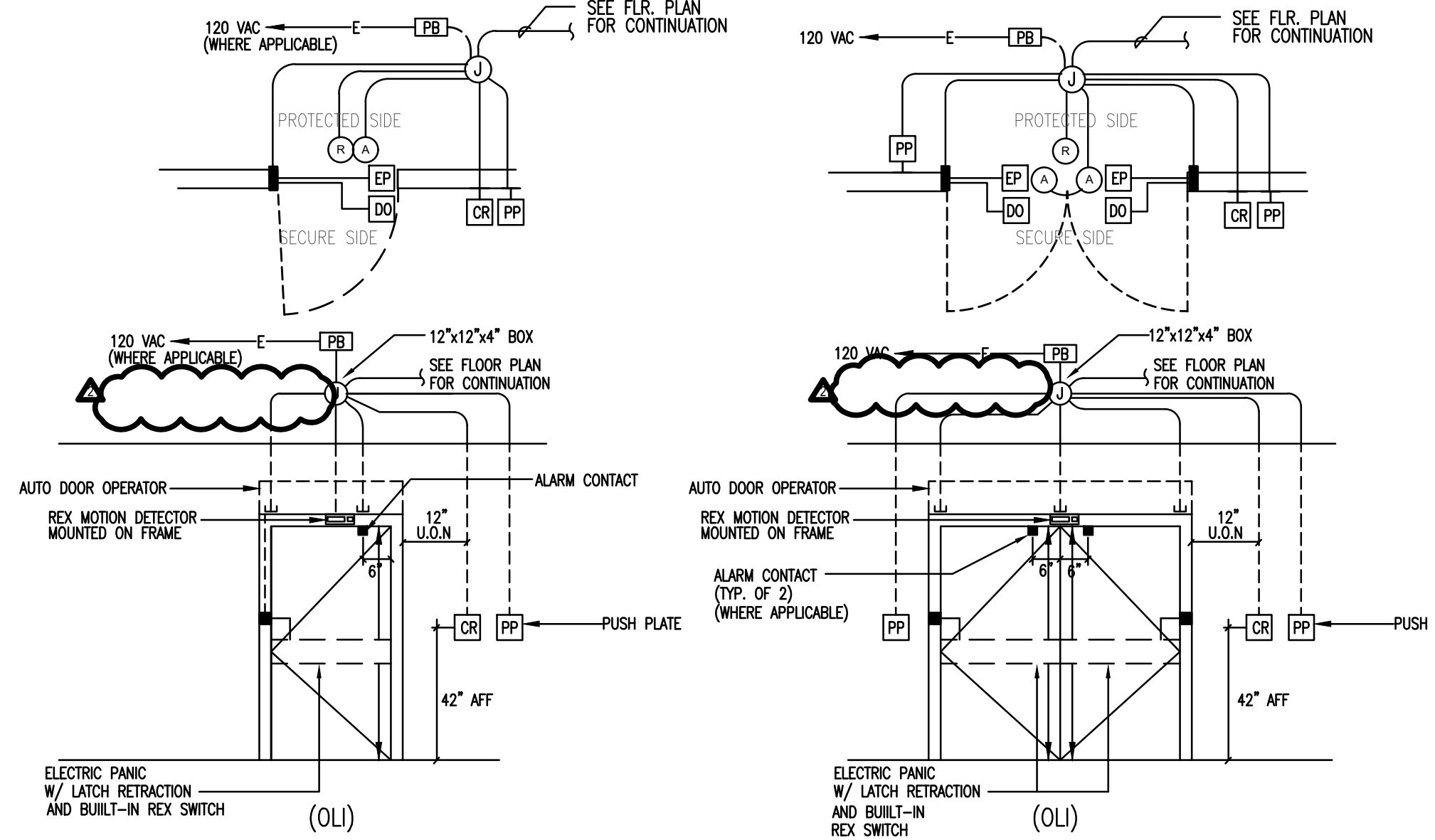
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SE-4.1



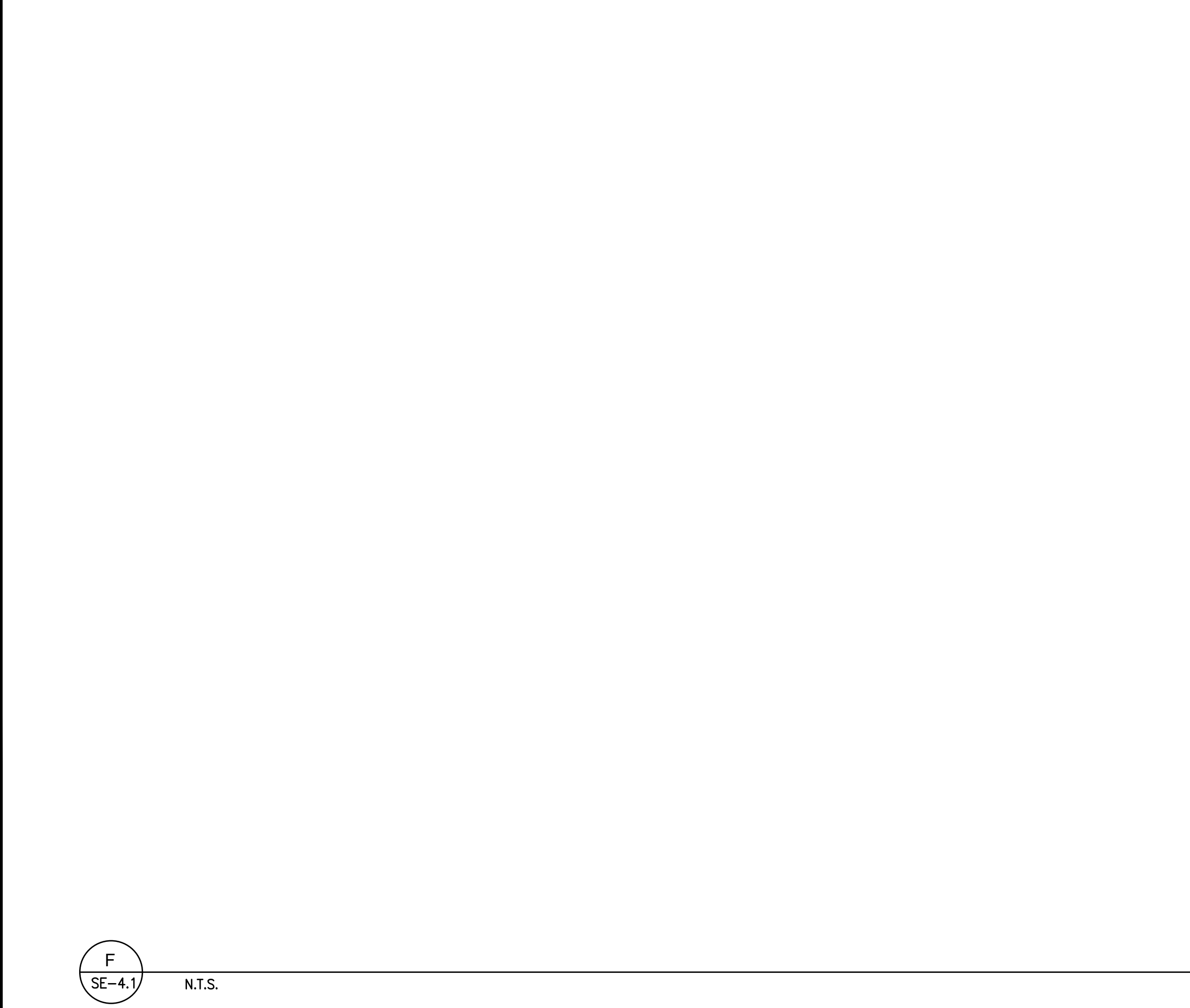
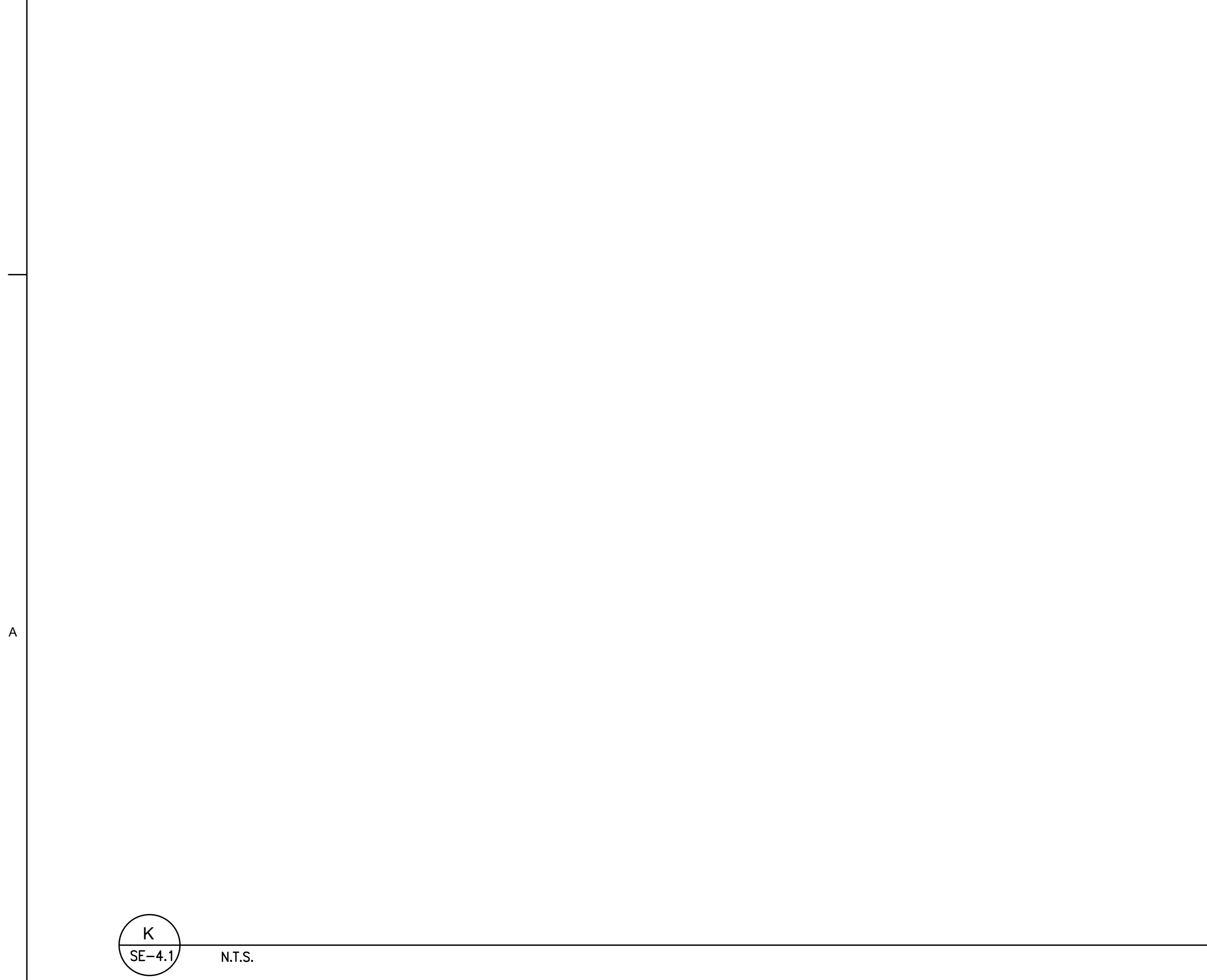
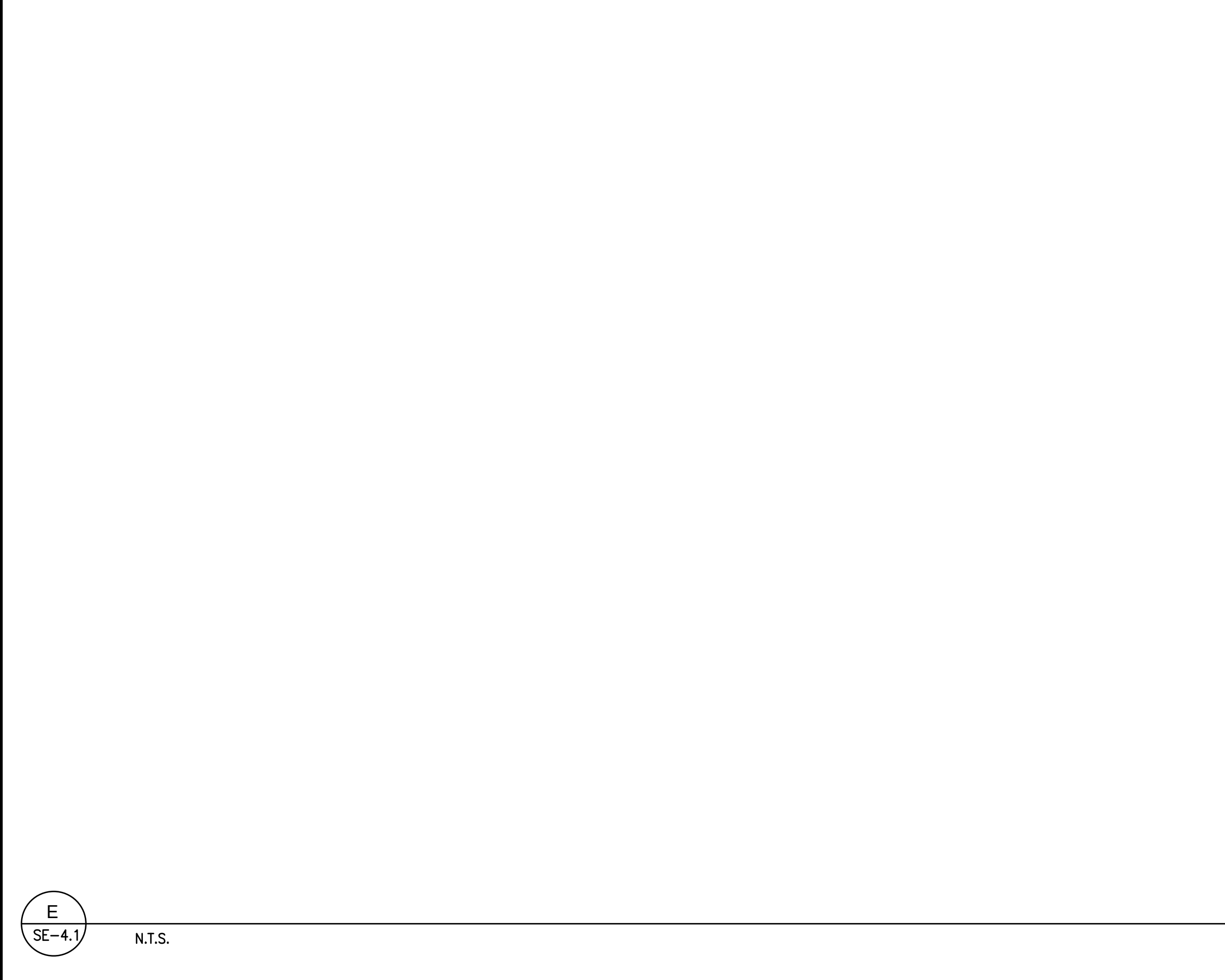
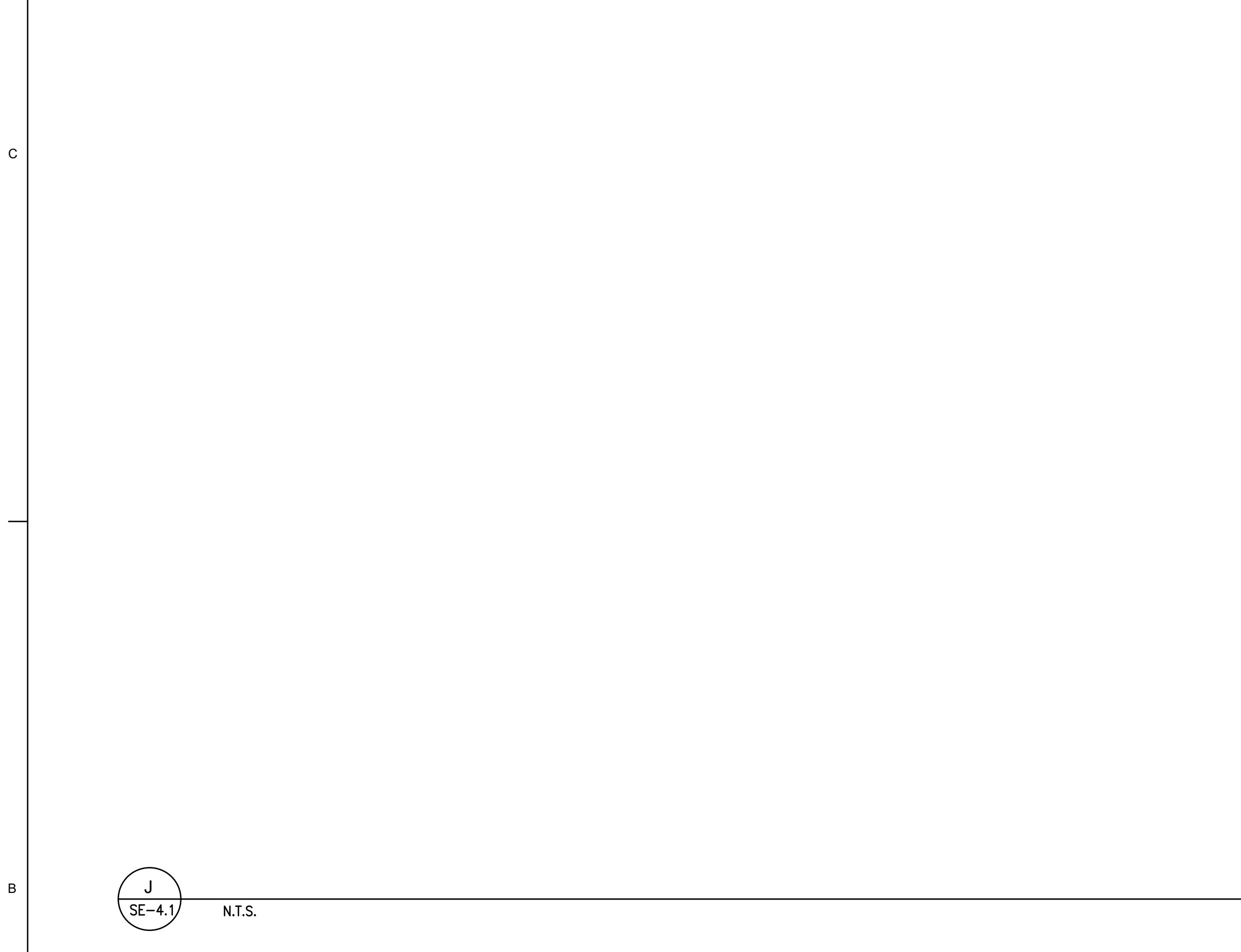
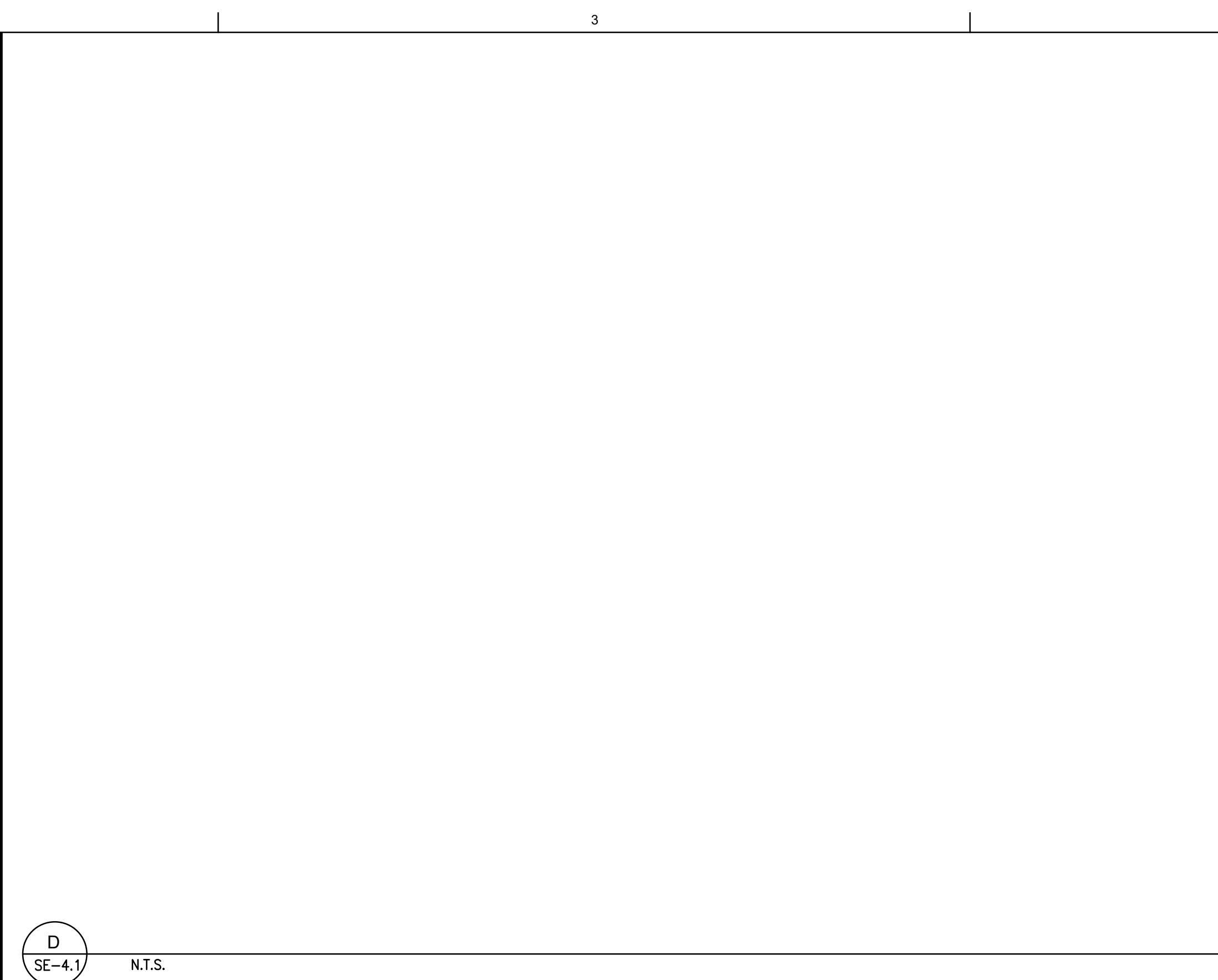
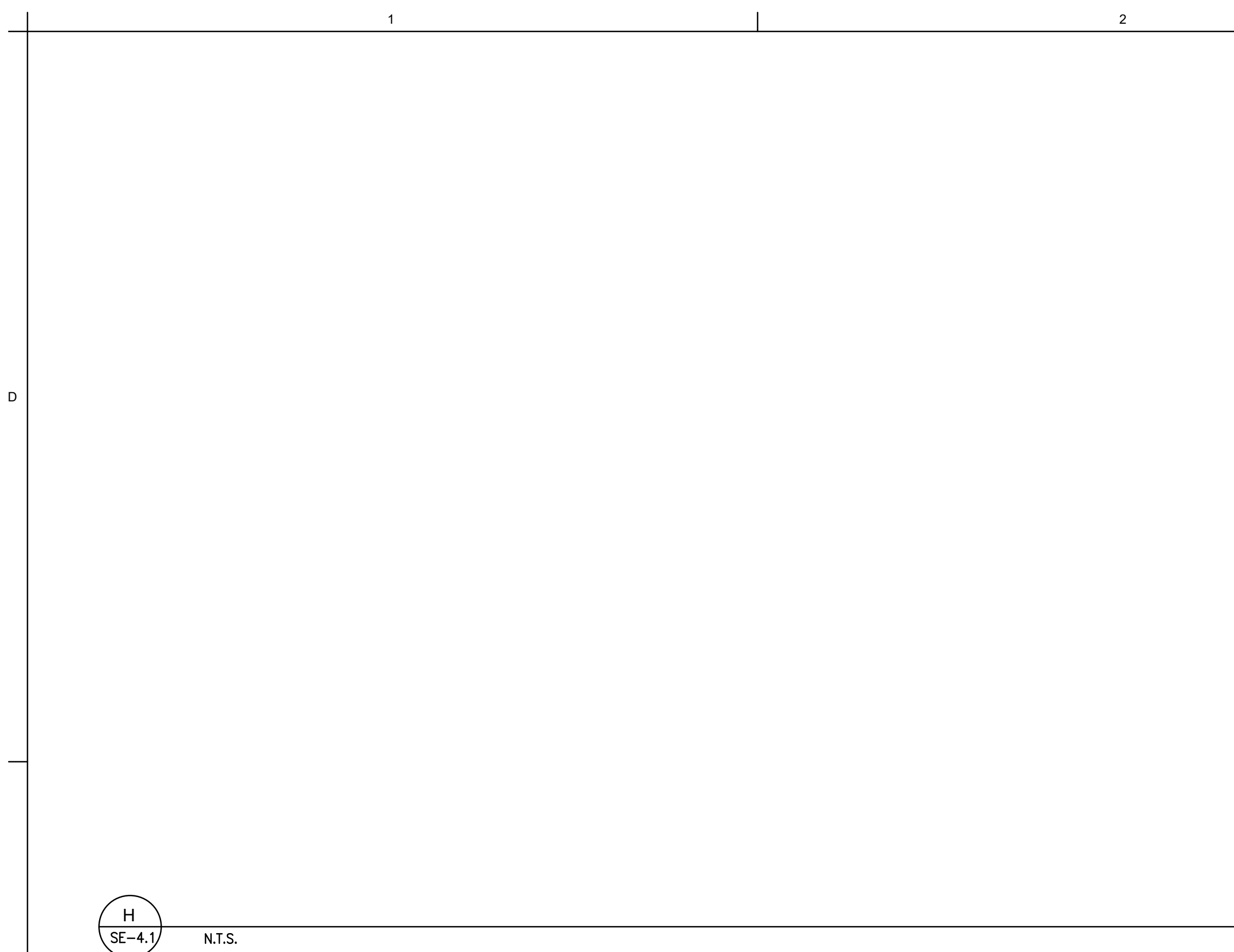
- THEORY OF OPERATION: (OLI)
- INGRESS: THIS "CARD IN / REX OUT" SET UP ALLOWS INGRESS USING A VALID CARD AT THE CARD READER THAT UNLOCKS THE DOOR.
 - EGRESS: THE USE OF AN ELECTRIC LOCK IMPLIES THAT YOU HAVE A MECHANICAL MEANS OF EGRESS THAT ALLOWS EXITING AT ALL TIMES. THE LOCK IS LOCKED ON THE SECURED SIDE AND UNLOCKED (FREE EGRESS) ON THE PROTECTED SIDE OF THE DOOR. REQUEST TO EXIT MOTION DETECTOR DOES NOT UNLOCK DOOR BUT RATHER SHUNTS THE ALARM CONTACT.

A CARD READER DOOR ELEVATION (ELECTRIC LOCK)
N.T.S.



- THEORY OF OPERATION:
- INGRESS: THIS "CARD IN / REX OUT" SET UP ALLOWS INGRESS USING A VALID CARD AT THE CARD READER THAT UNLOCKS THE DOOR.
 - EGRESS: THE USE OF AN ELECTRIC PANIC IMPLIES THAT YOU HAVE A MECHANICAL MEANS OF EGRESS THAT ALLOWS EXITING AT ALL TIMES. THE PANIC IS LOCKED ON THE SECURED SIDE AND UNLOCKED (FREE EGRESS) ON THE PROTECTED SIDE OF THE DOOR. REQUEST TO EXIT MOTION DETECTOR DOES NOT UNLOCK DOOR BUT RATHER SHUNTS THE ALARM CONTACT.
 - WHERE AUTOMATIC OPERATOR IS PROVIDED, CONTRACTOR SHALL PROVIDE AN INTERFACE WITH SECURITY SYSTEM AND SHALL HAVE THE CARD READER ENABLES THE EXTERIOR PUSH PLATE AFTER BUSINESS HOURS. DURING NORMAL BUSINESS HOURS, DOORS SHALL BE CONTROLLED VIA PUSH PLATES (UNCONTROLLED BY CARD READER).

B CARD READER WITH ELECTRIC PANIC
N.T.S.





City Project 12-60D
Turlock Regional Transit Center
CCTV and Access Control
1418 N. Golden State Blvd.
Turlock, CA 945380

PROJECT DETAILS

PLN PROJECT NO: 14031
SUBMITTAL DATE:

PROJECT REVISIONS

MARK	DATE	DESCRIPTION
▲	10/13/2017	OWNER REQUESTED CHANGES
▲	04/19/2018	OWNER REQUESTED UPDATES

SHEET DETAILS

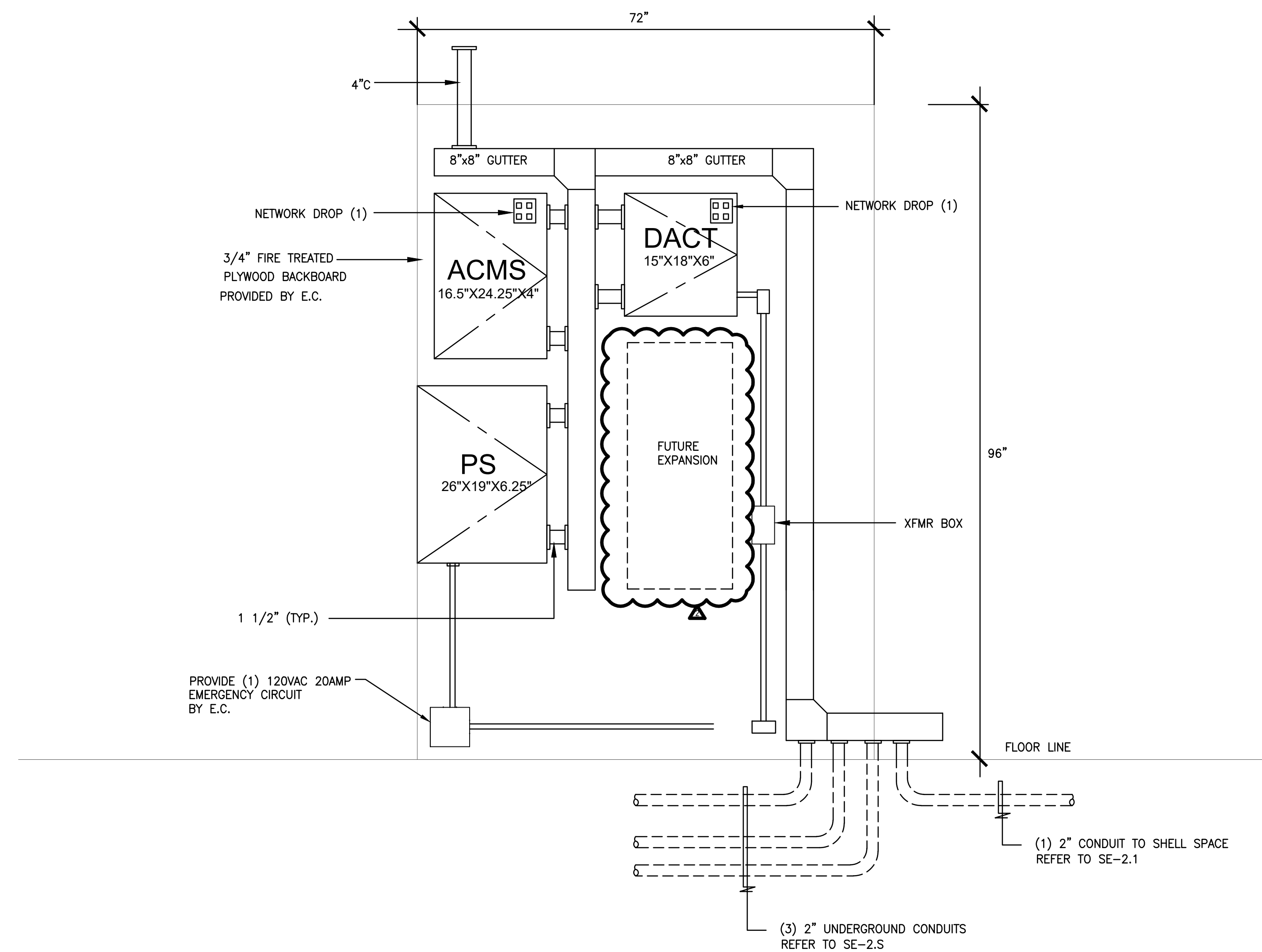
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CHECKED BY: VA
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SHEET TITLE

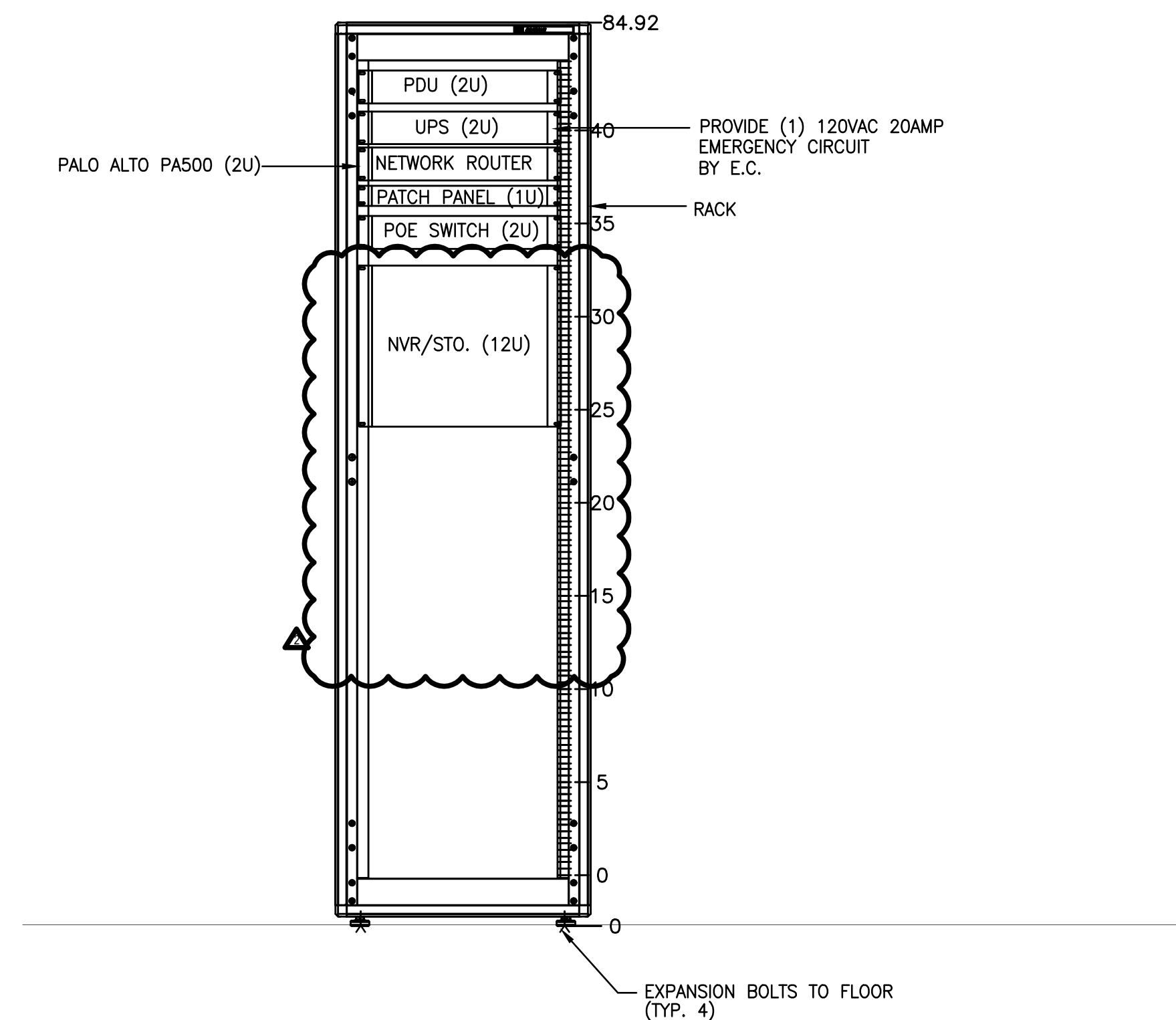
PANEL AND RACK
ELEVATIONS

SHEET NUMBER

SE-4.2



A WALL MOUNTED SECURITY PANEL ELEVATION
SE-4.2 N.T.S.



B RACK ELEVATION
SE-4.2 N.T.S.

