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NO.

DATE

REVISIONS

CDOT/APPROVED BY:

DES. DRW. CHK. DCCO CDOT

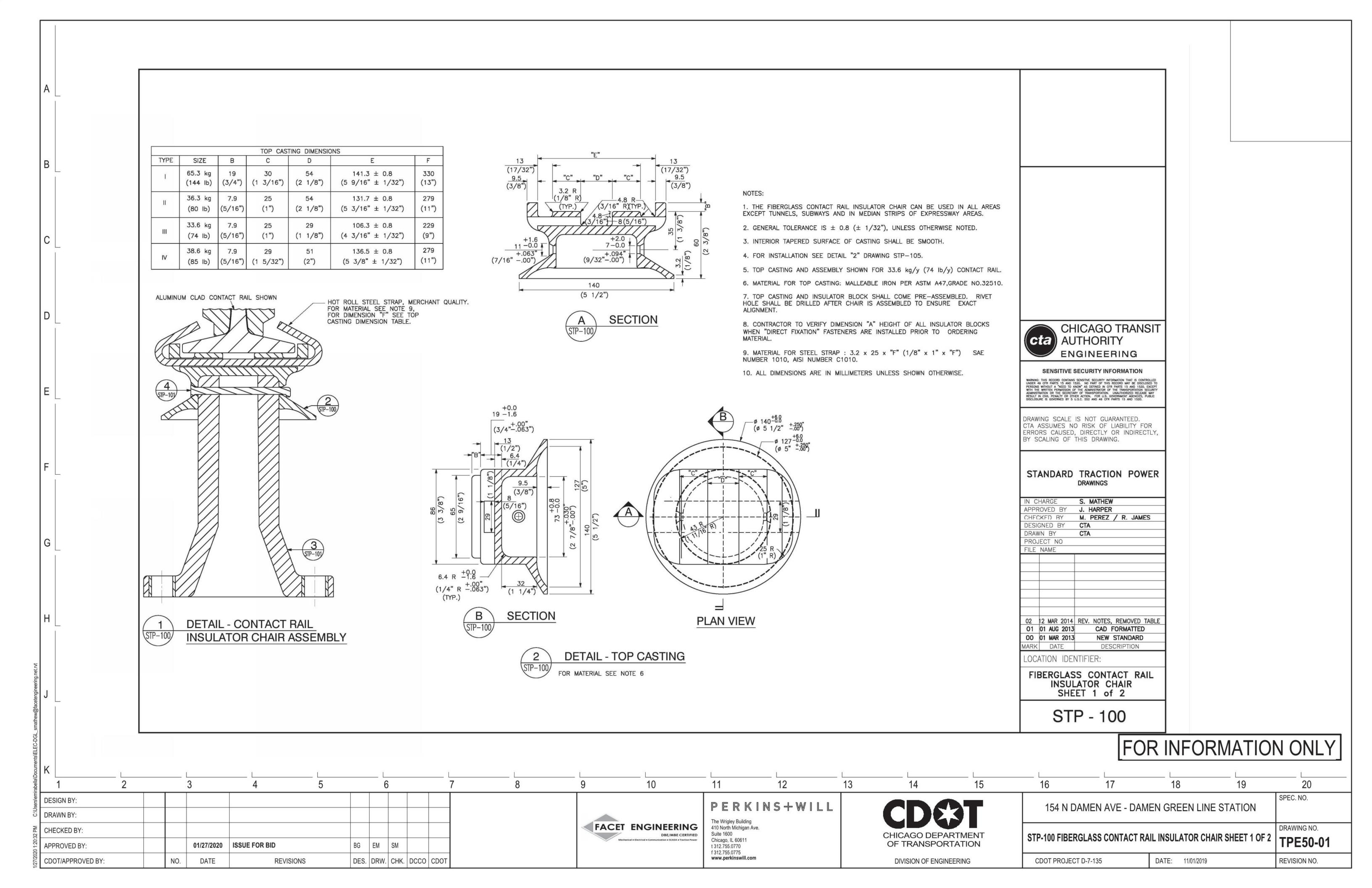
DRAWING NO. **TPE50-00**

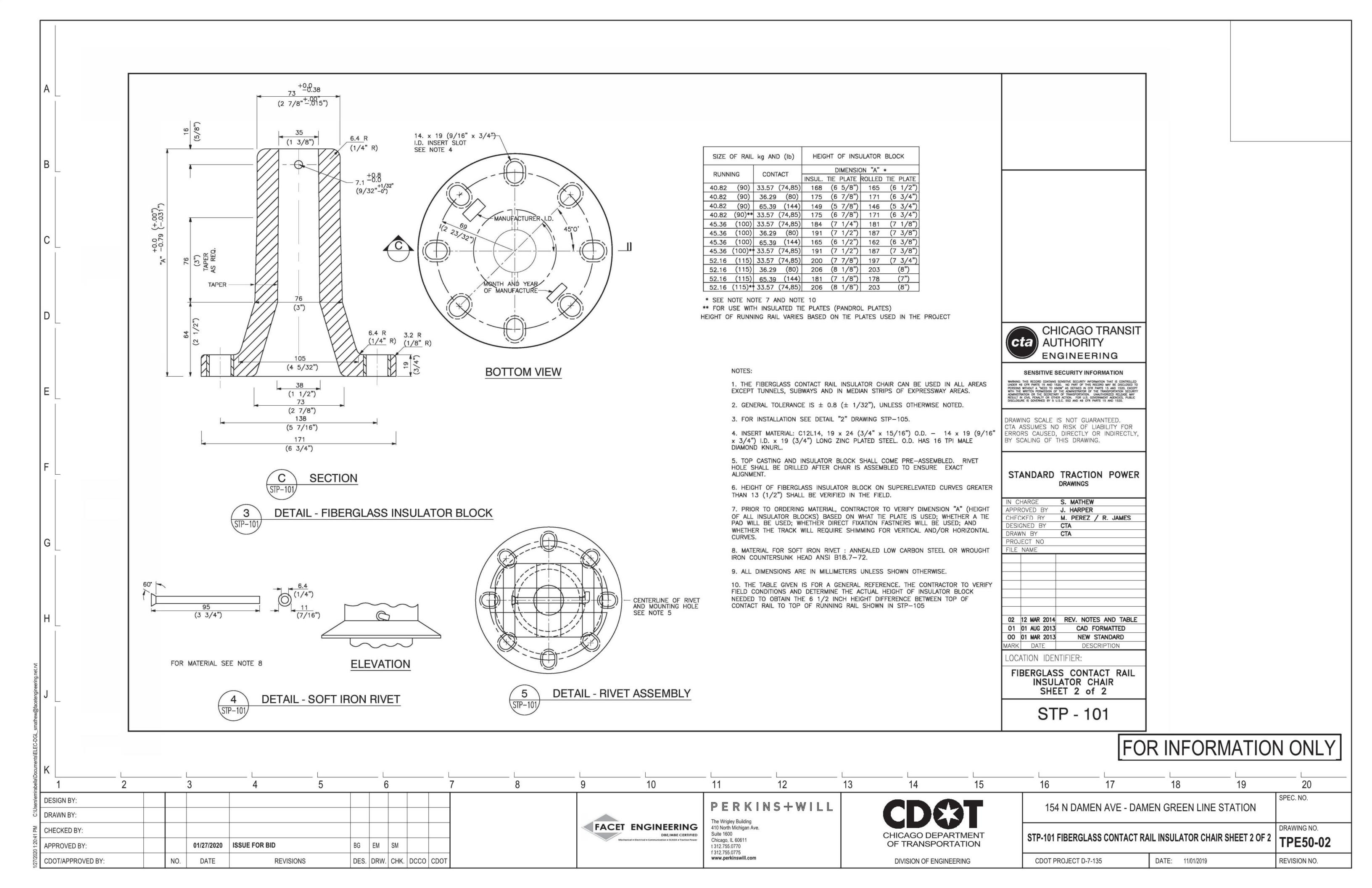
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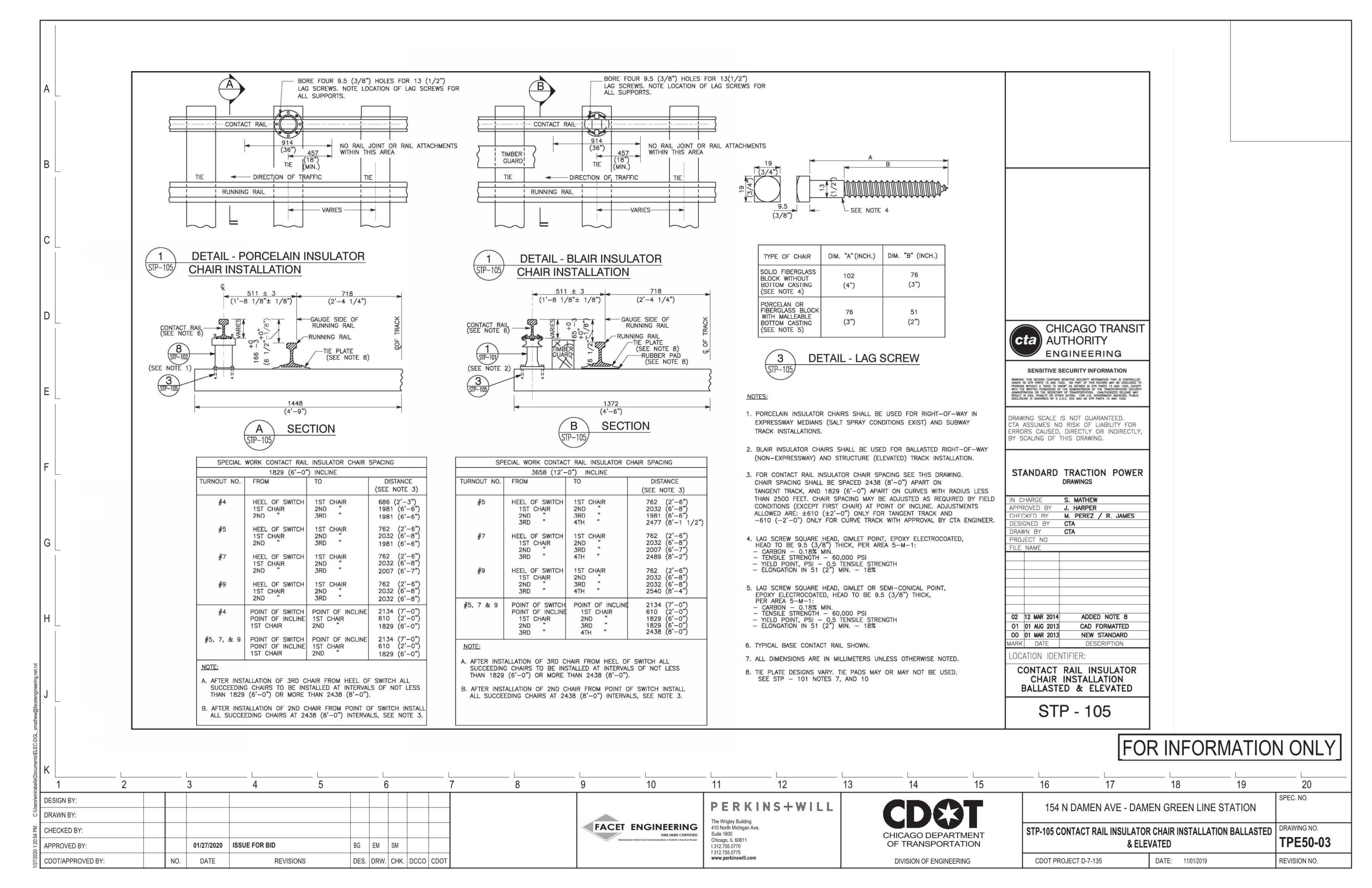
DATE: 11/01/2019

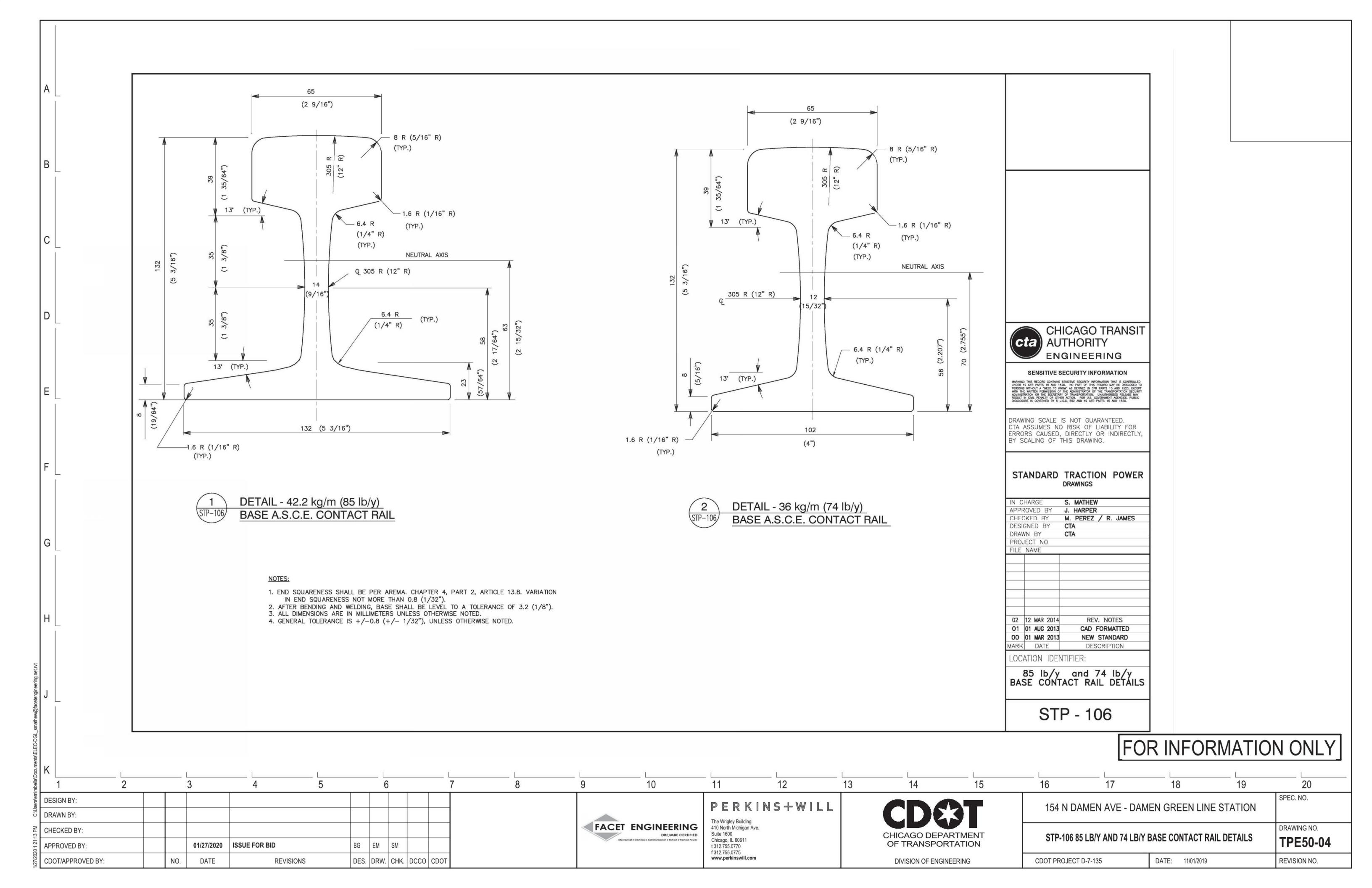
CDOT PROJECT D-7-135

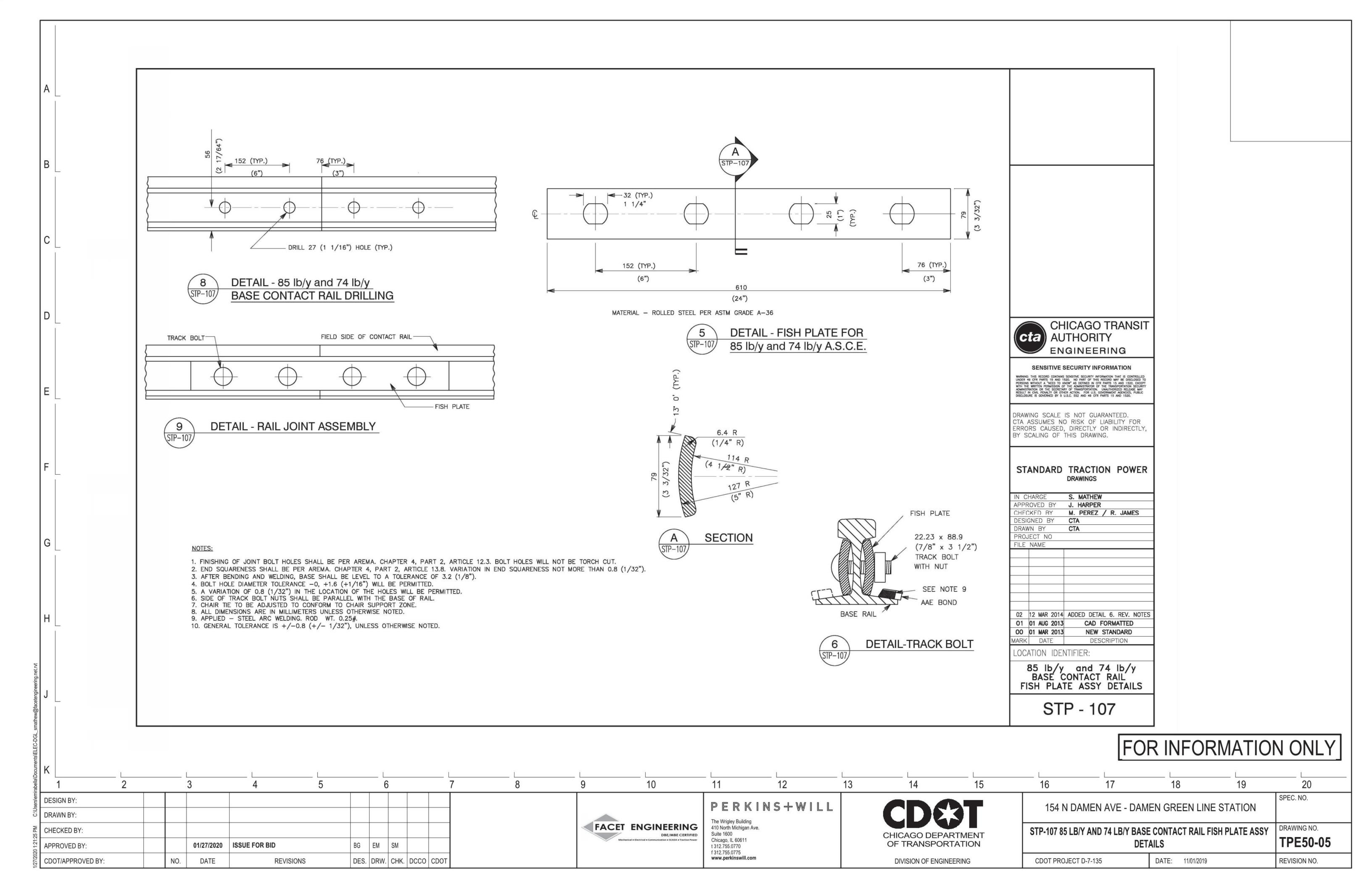
DIVISION OF ENGINEERING

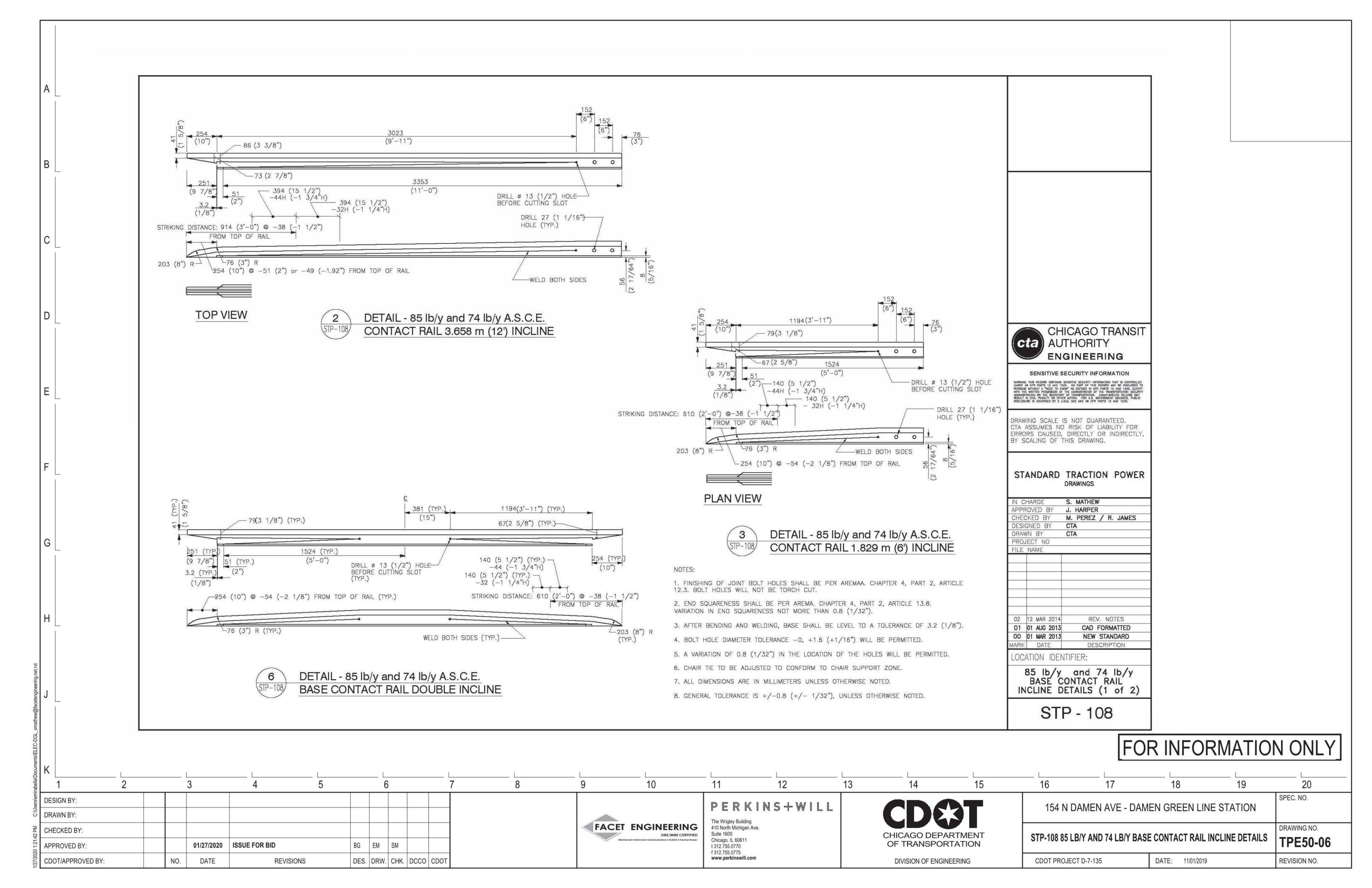


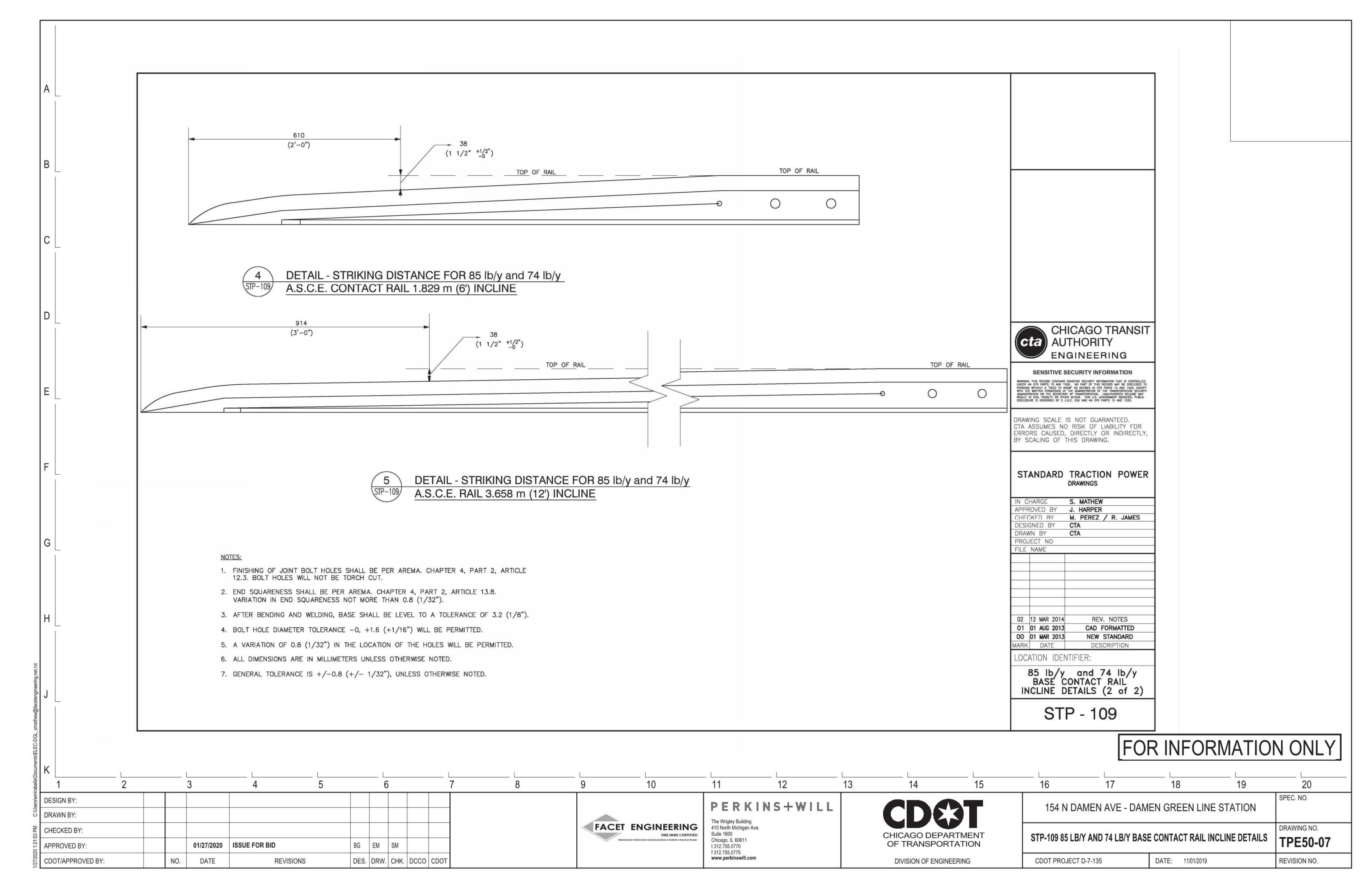


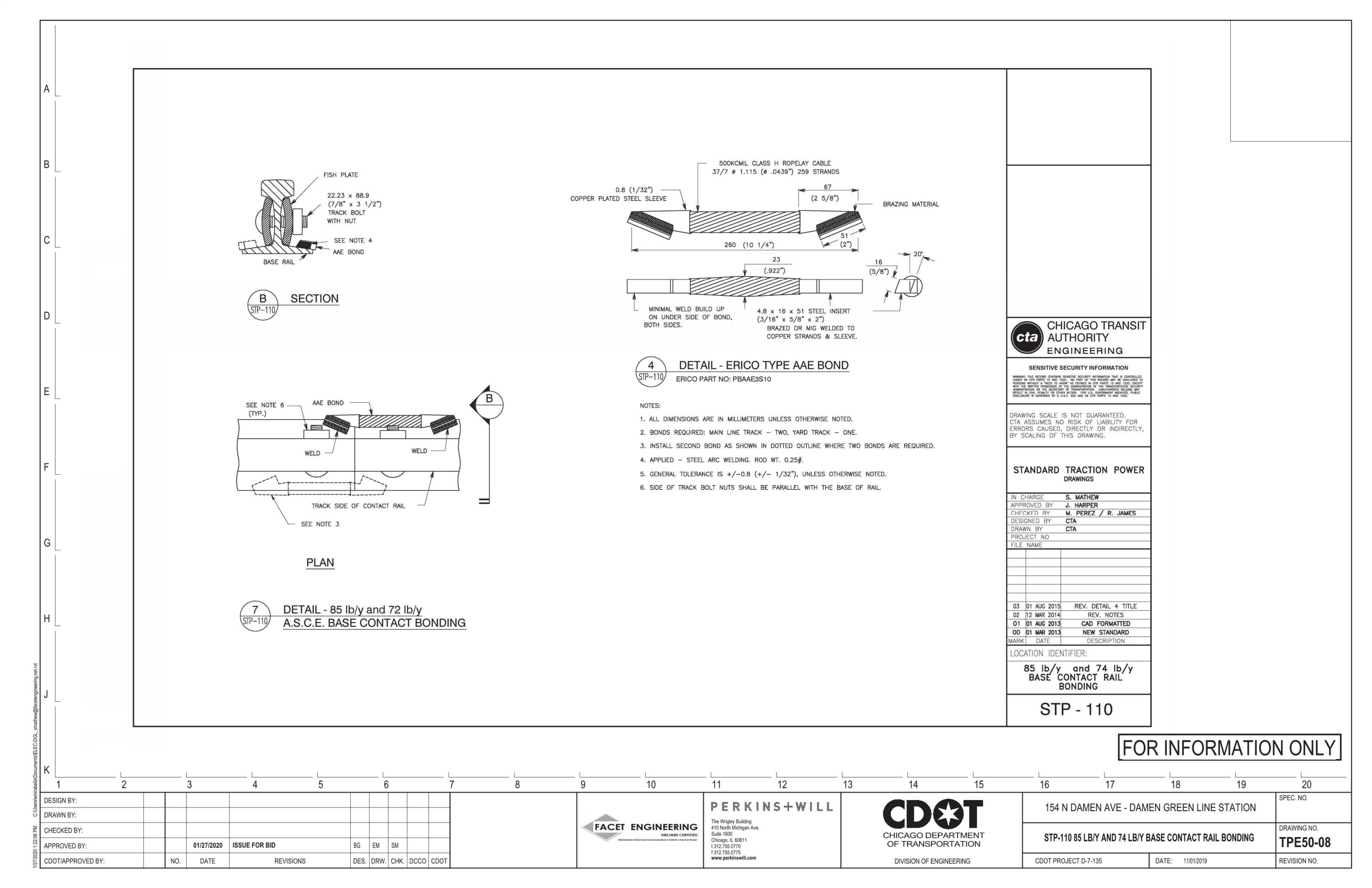


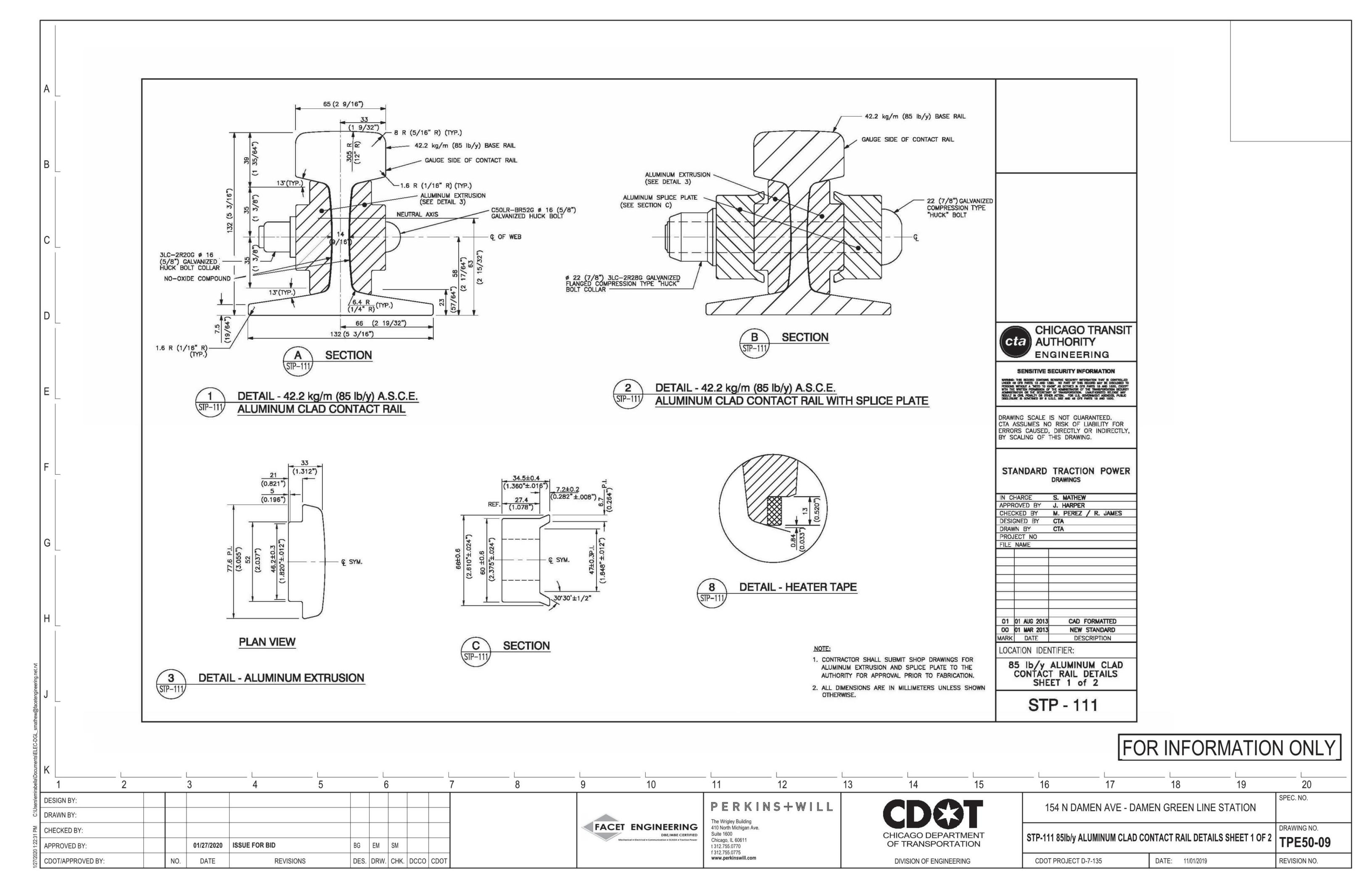


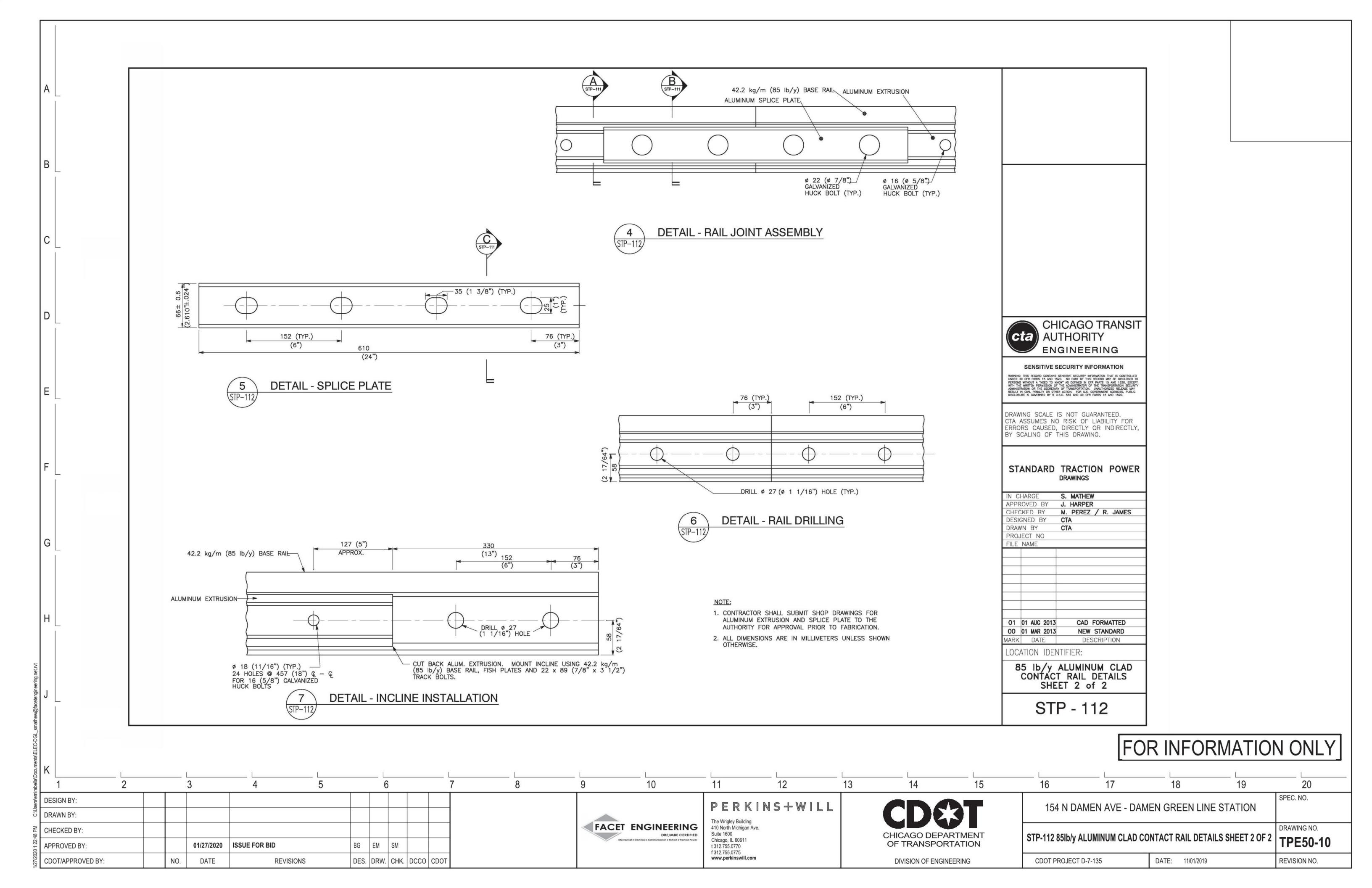


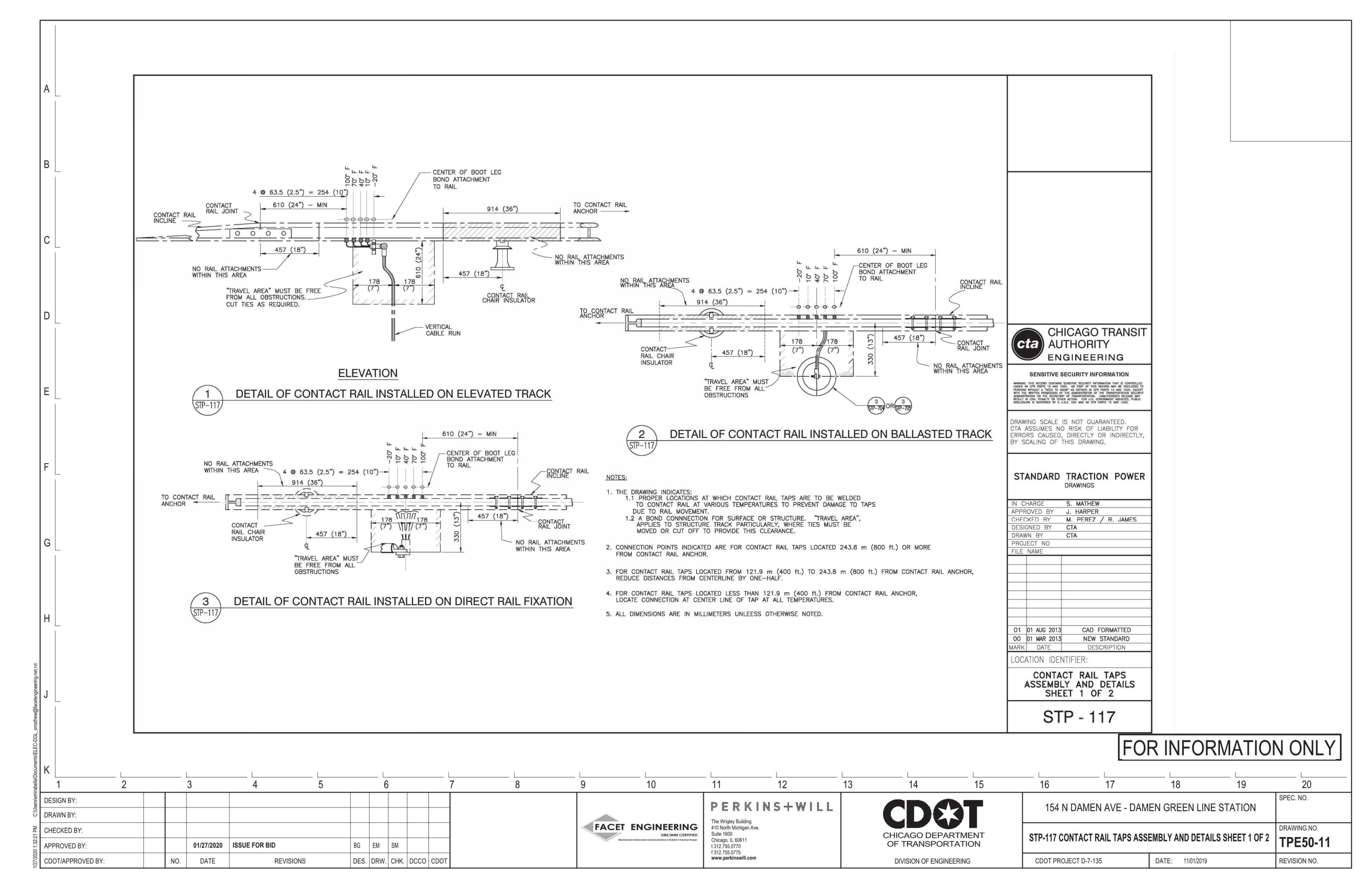


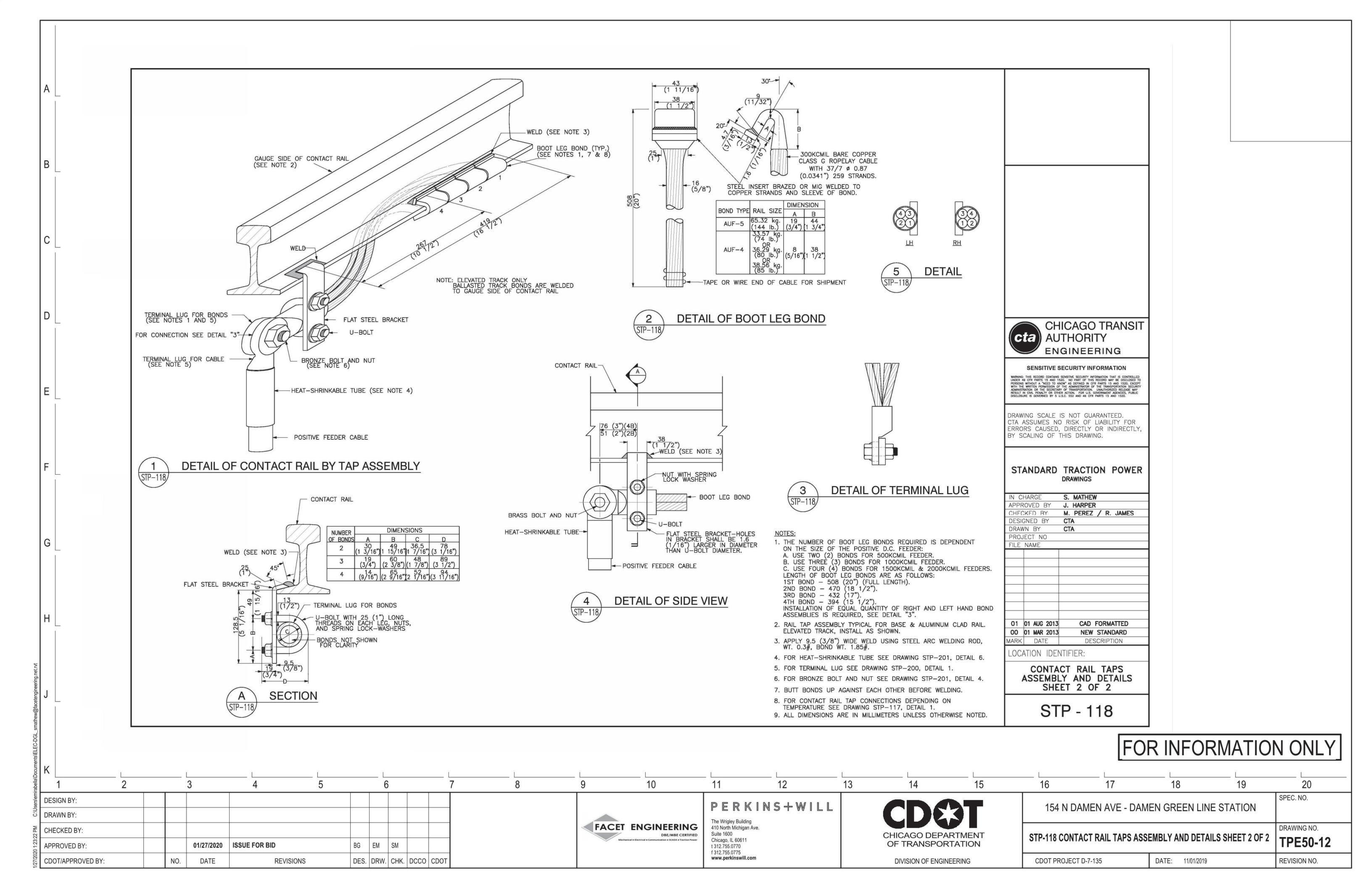


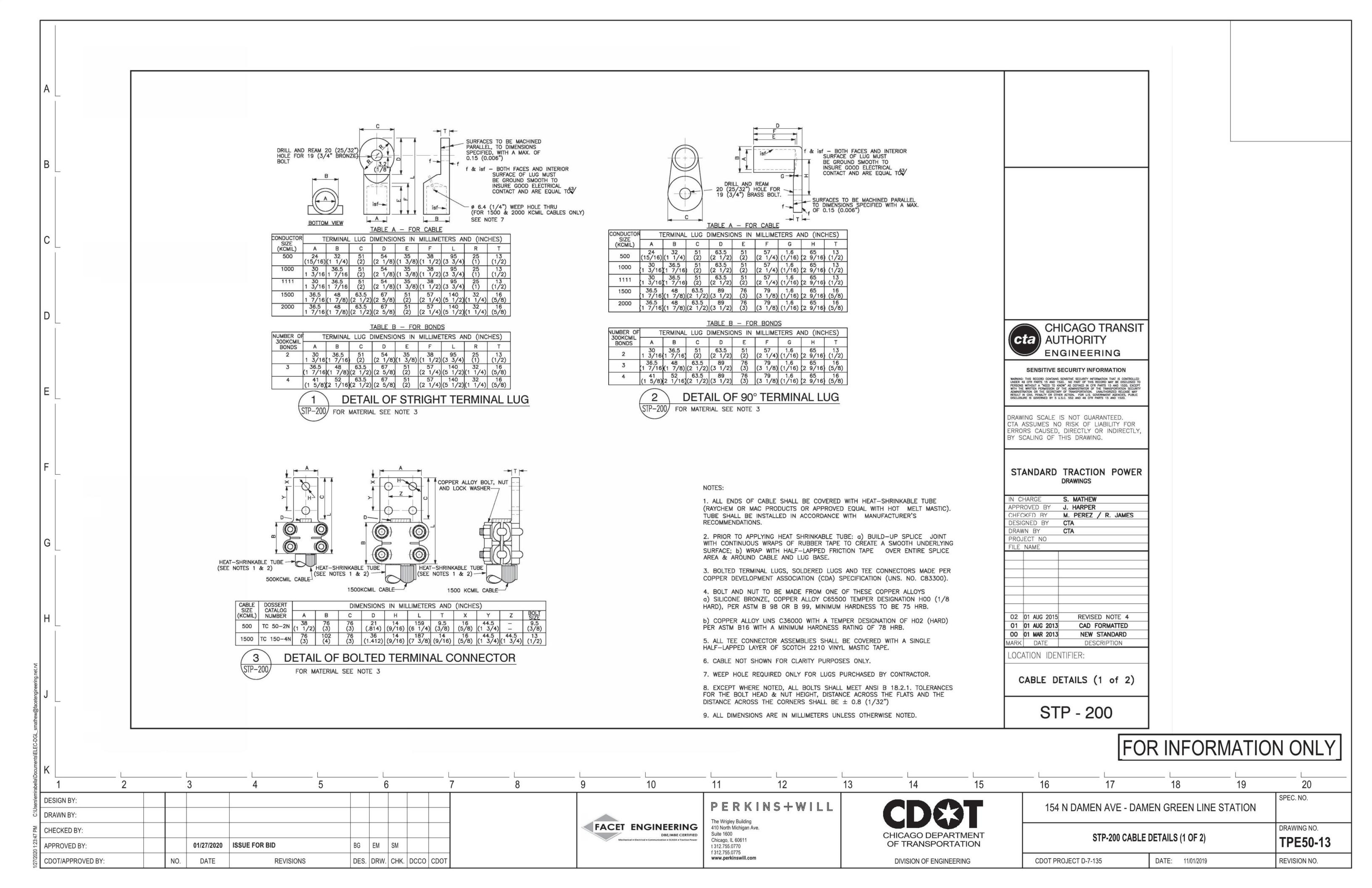


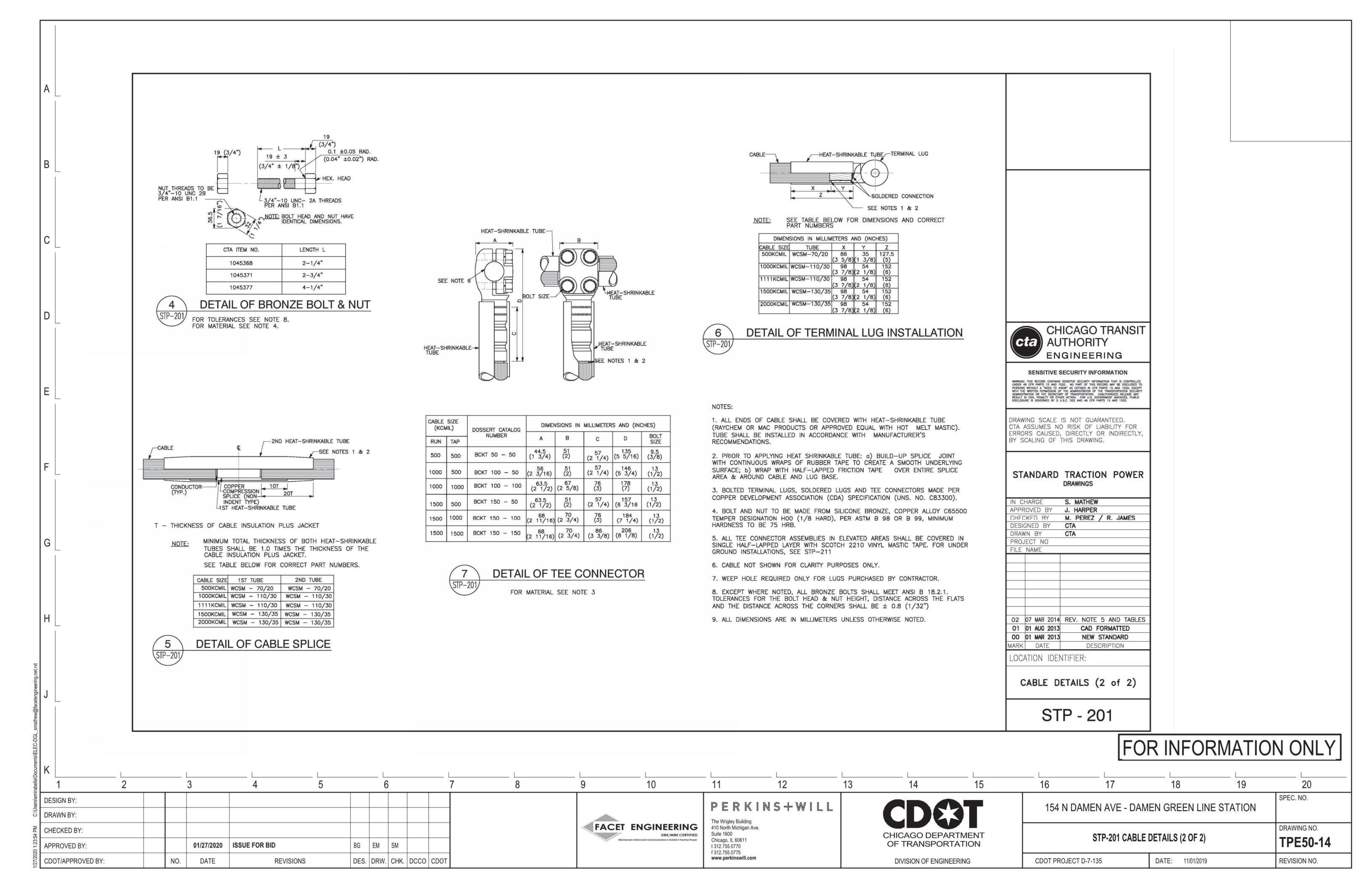


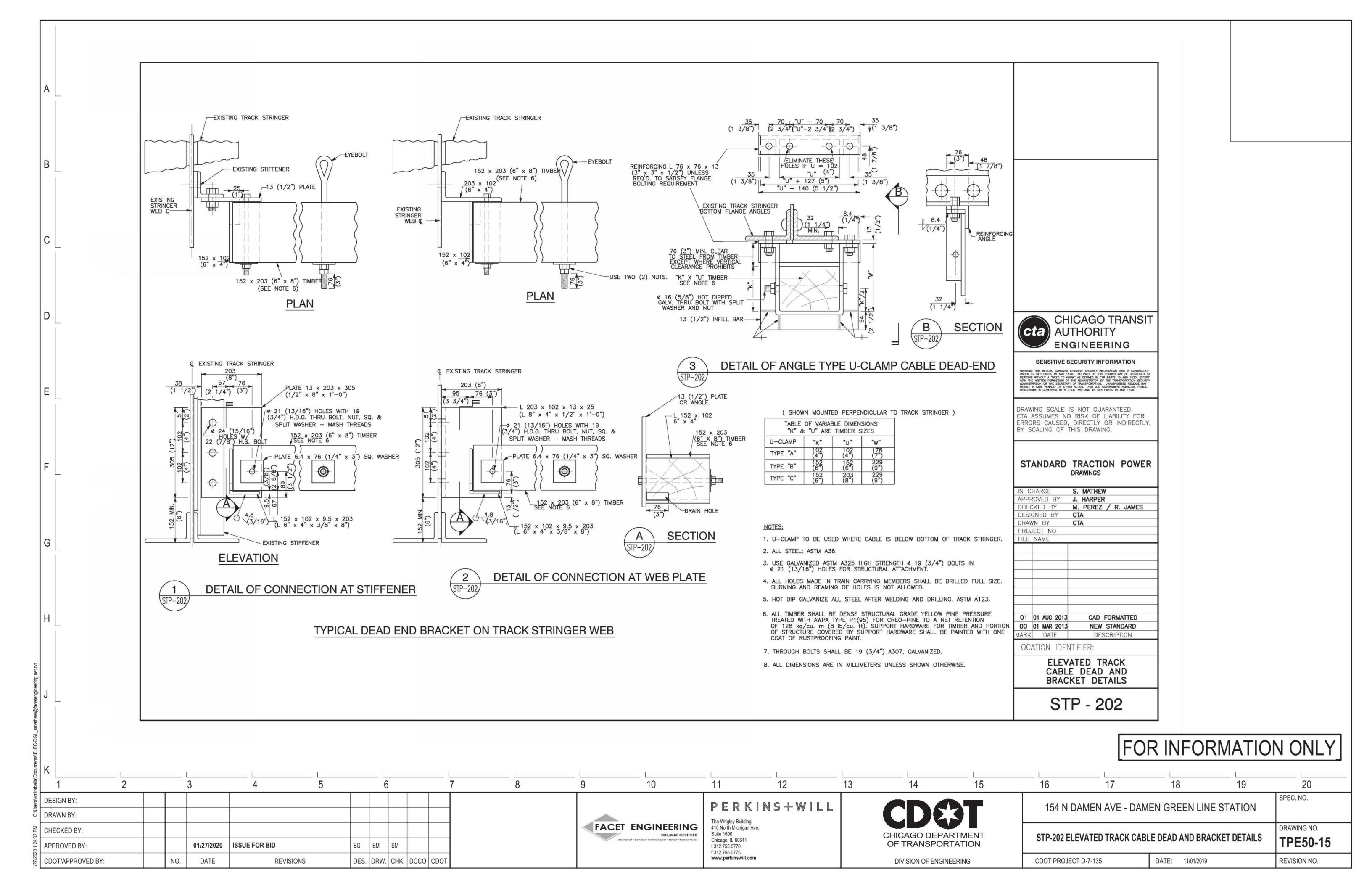


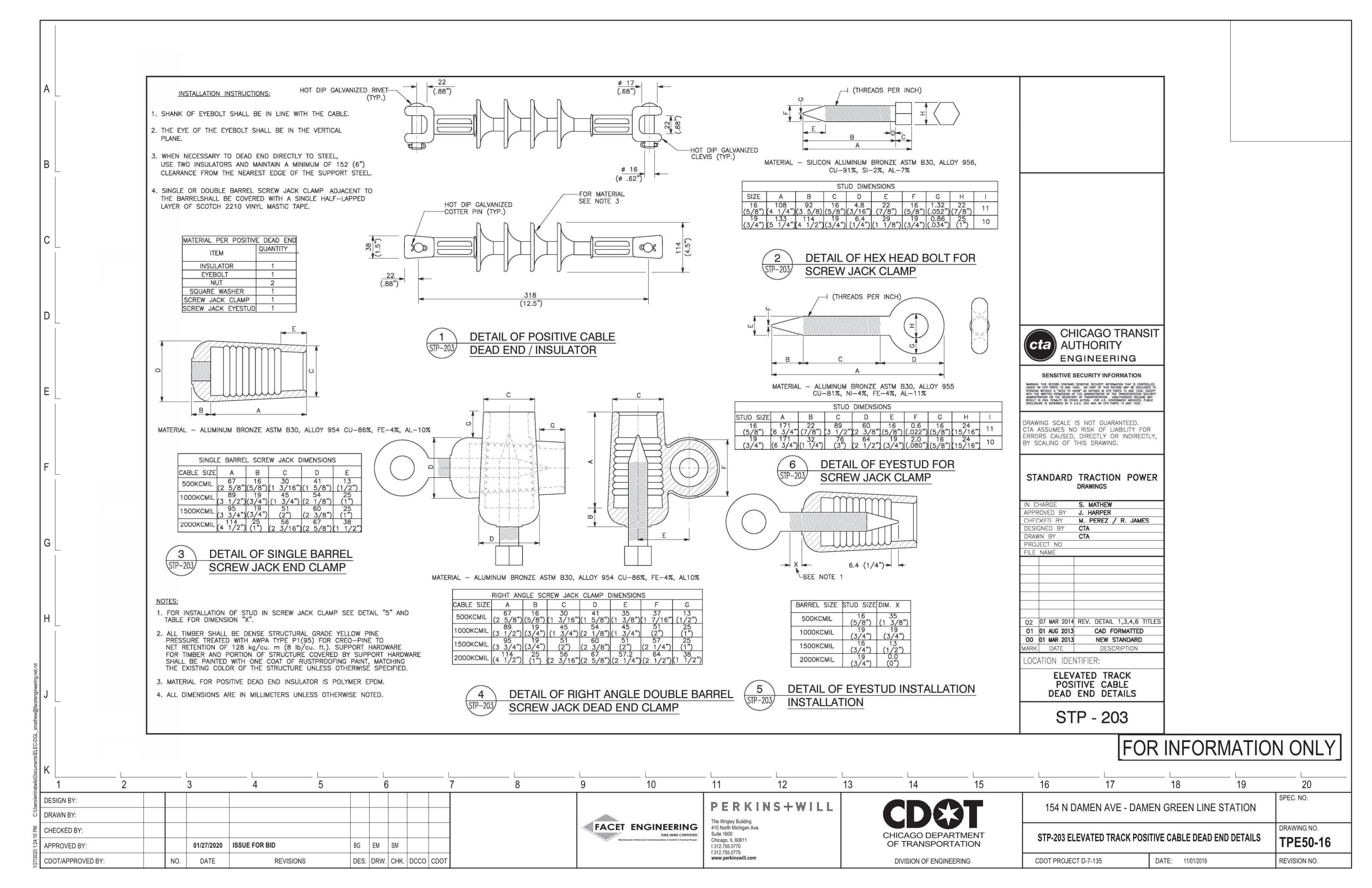


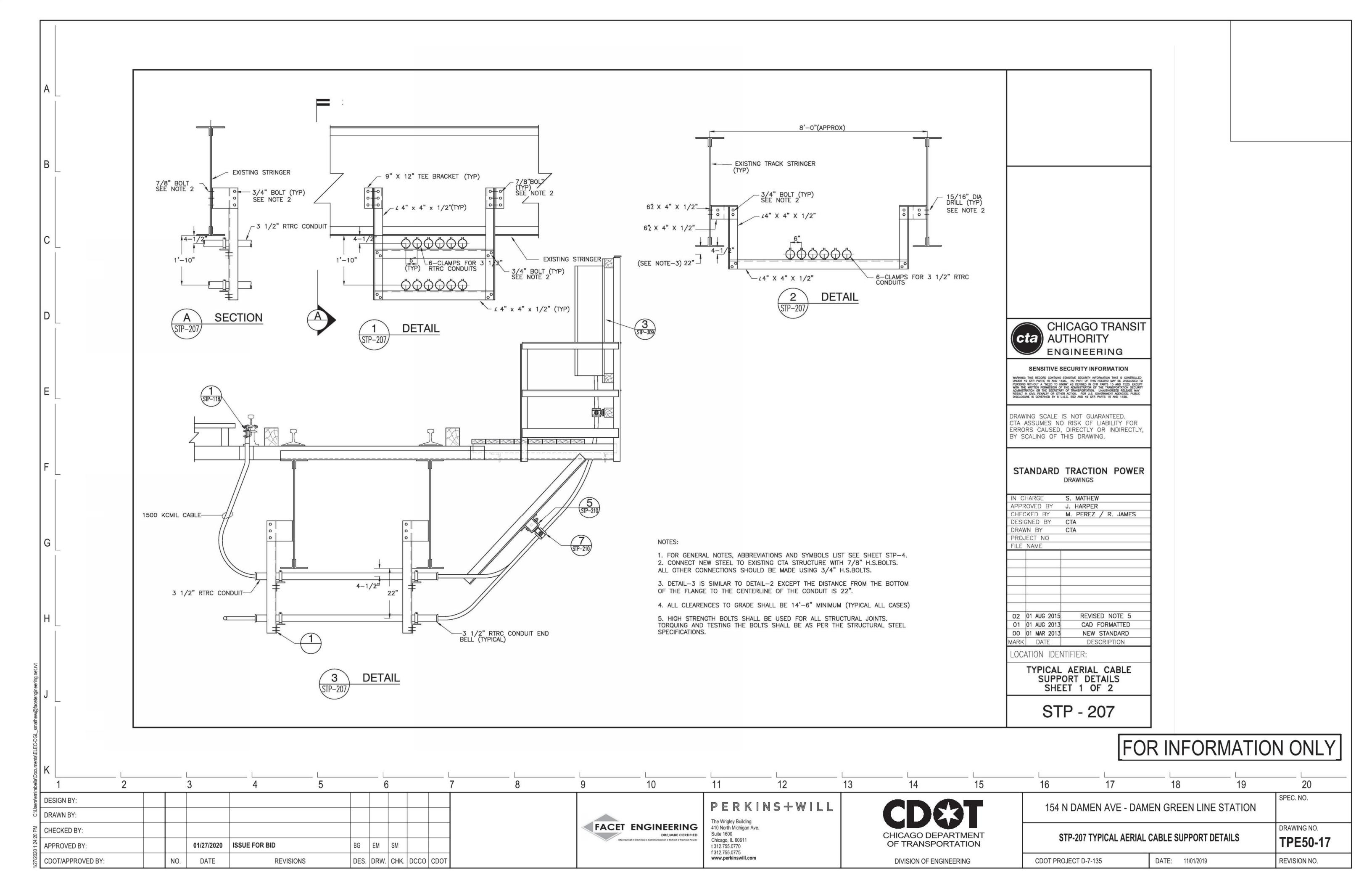


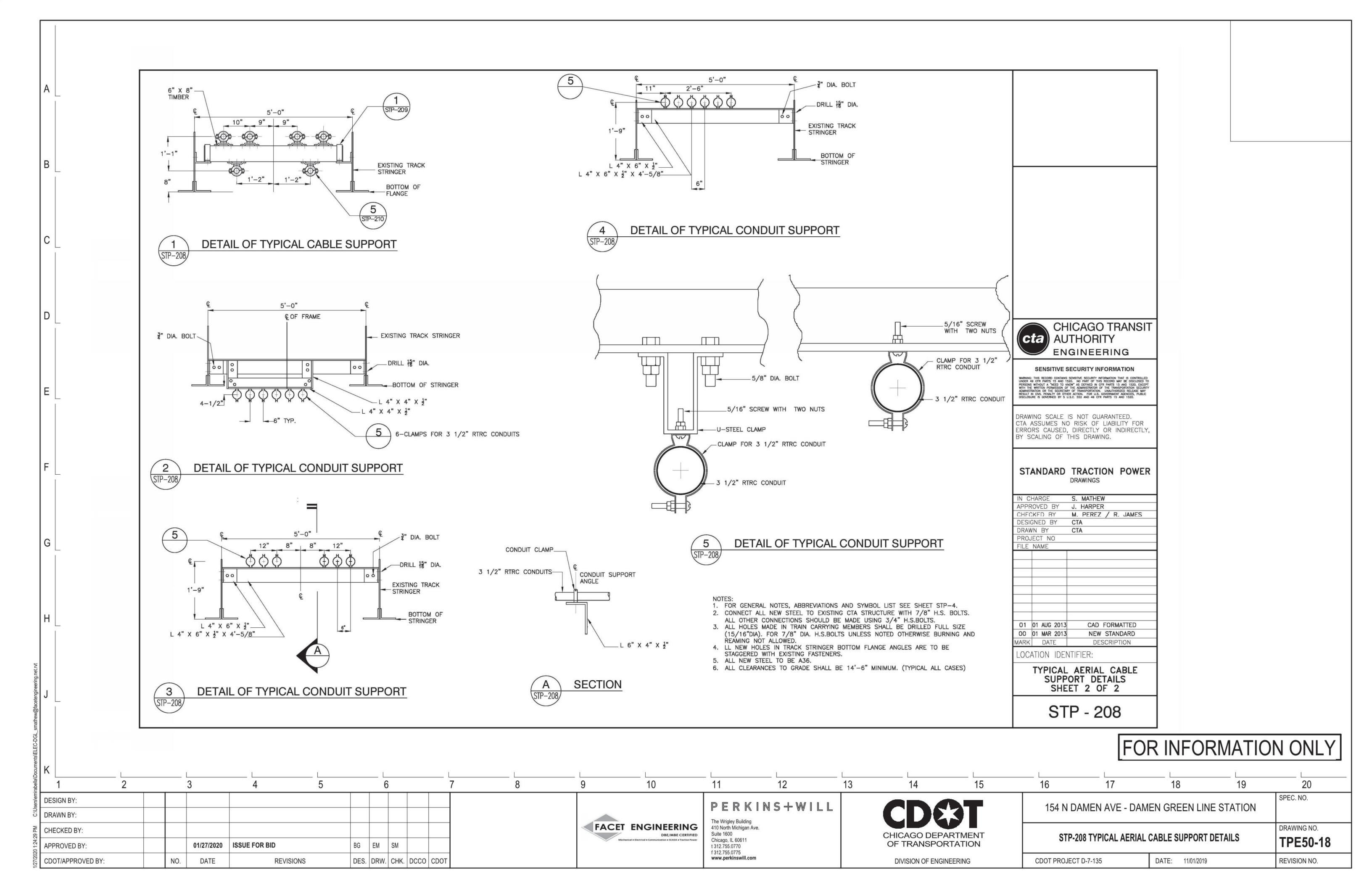


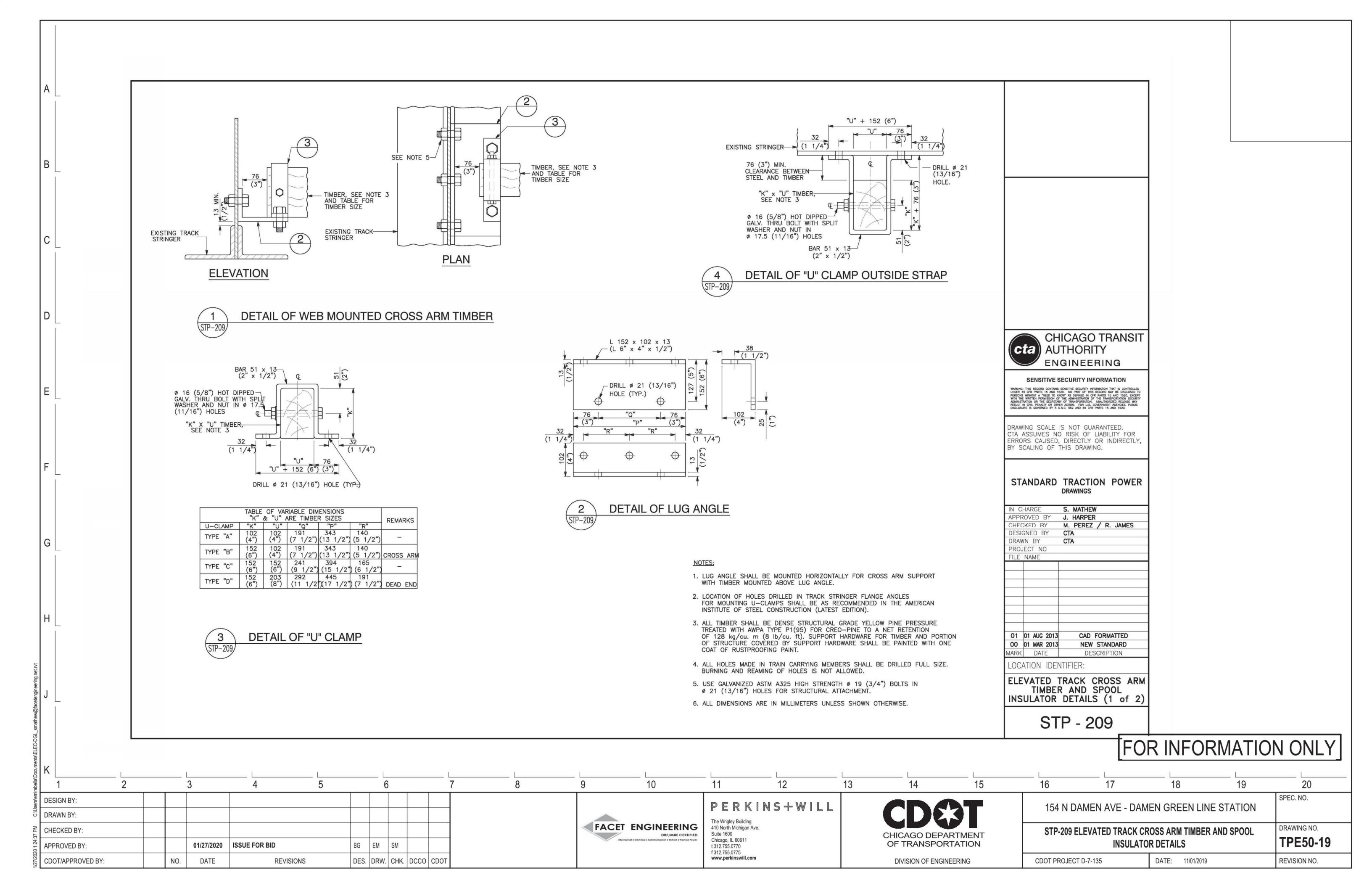


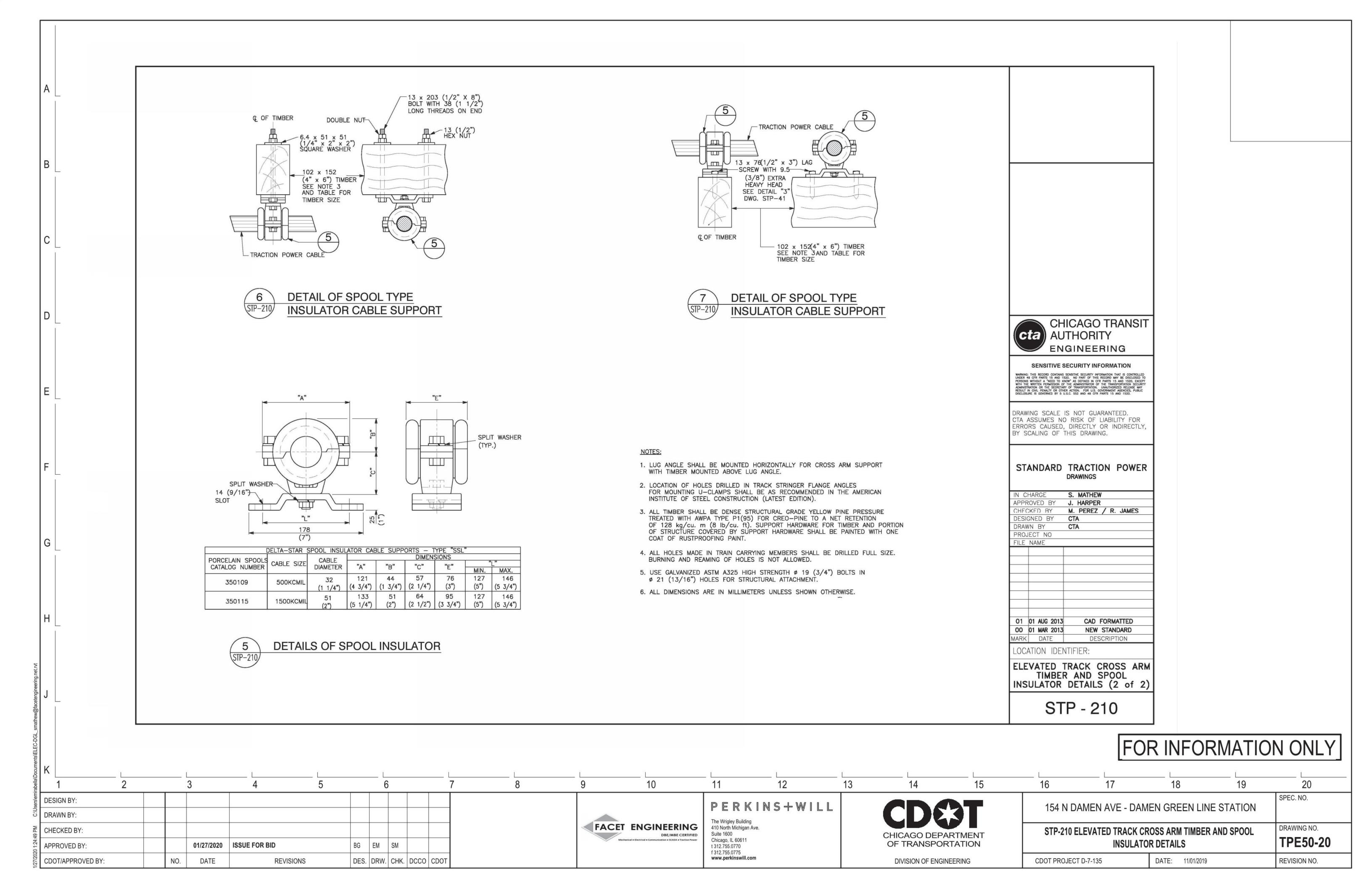


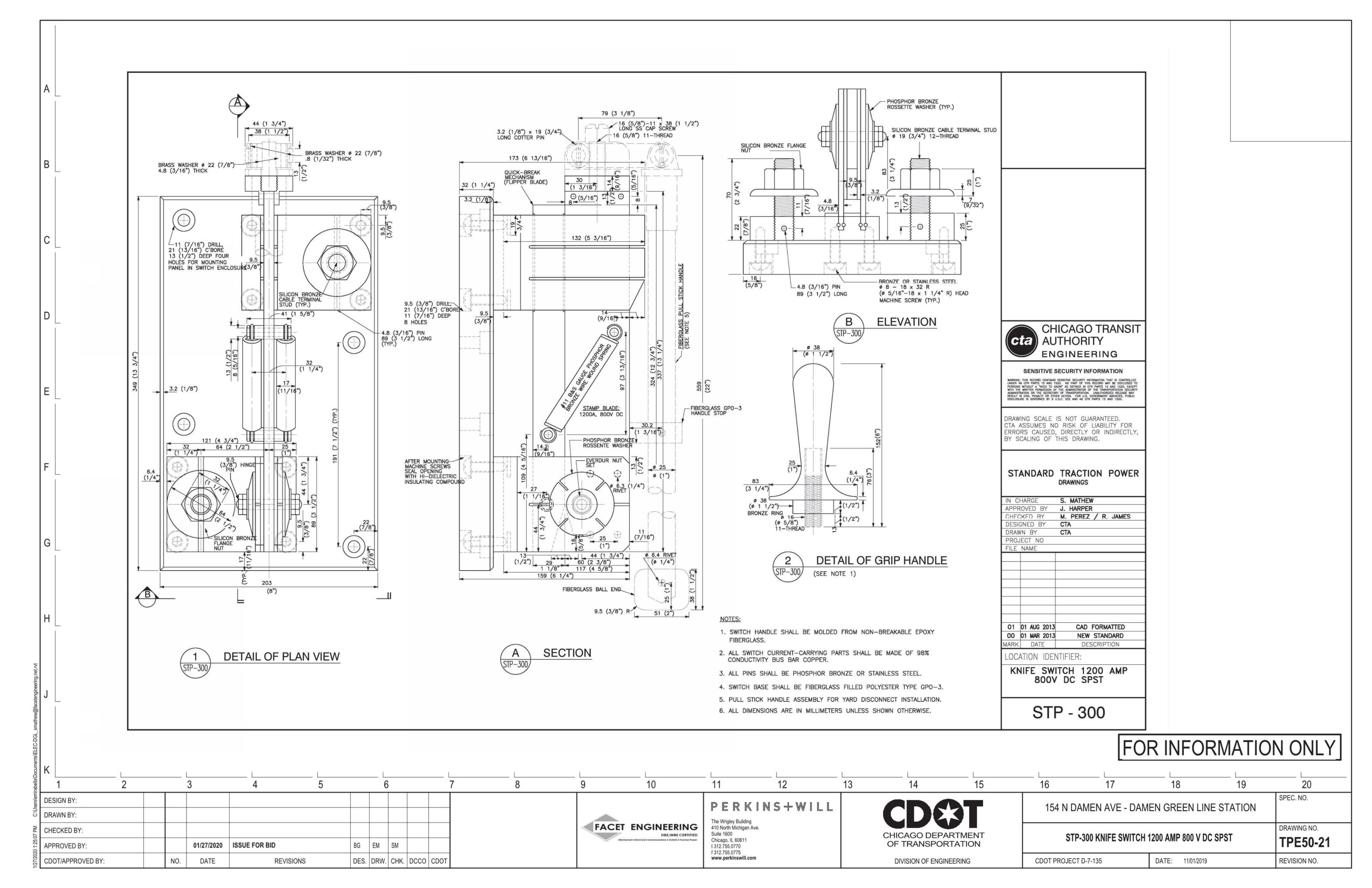


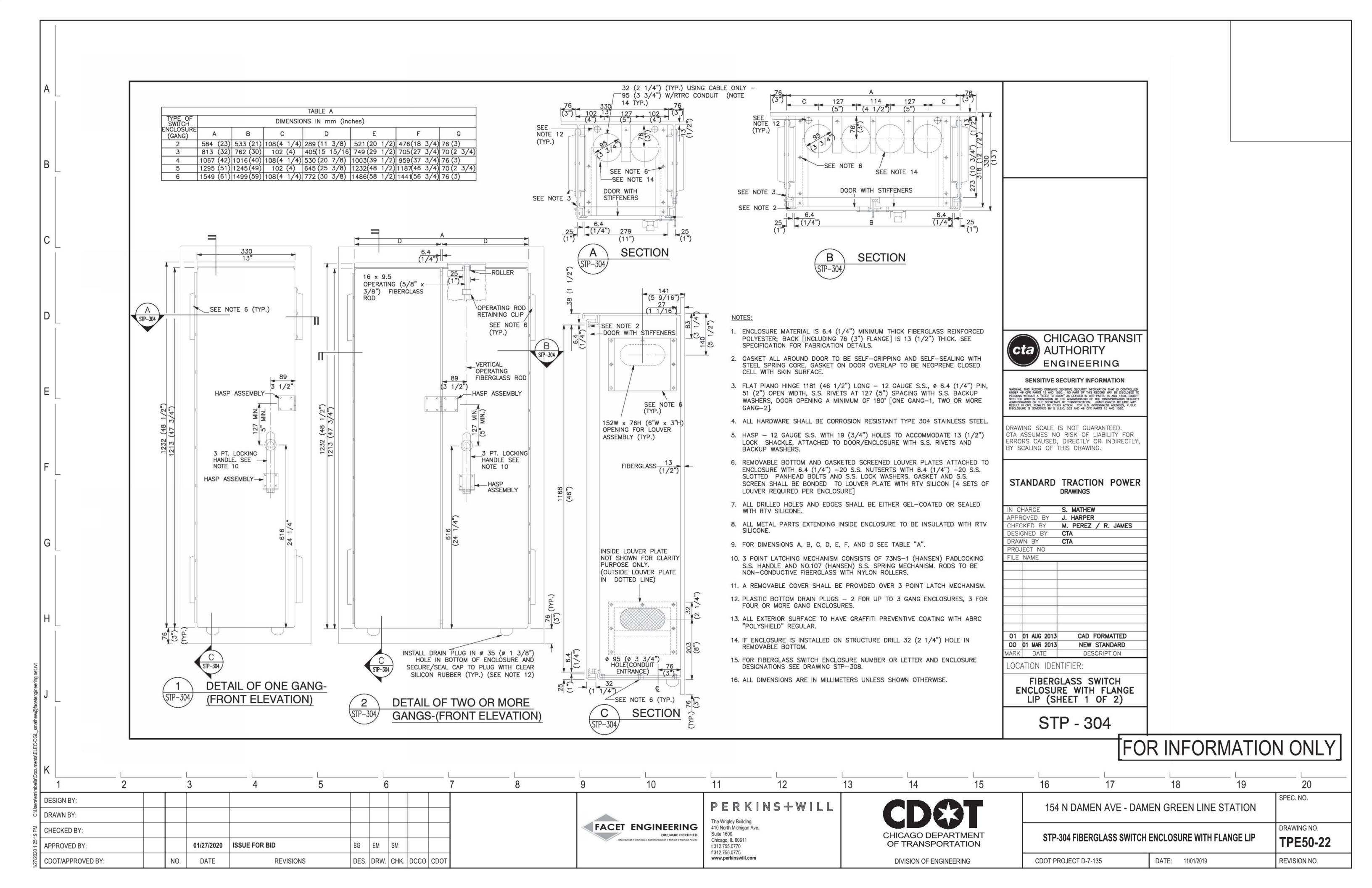


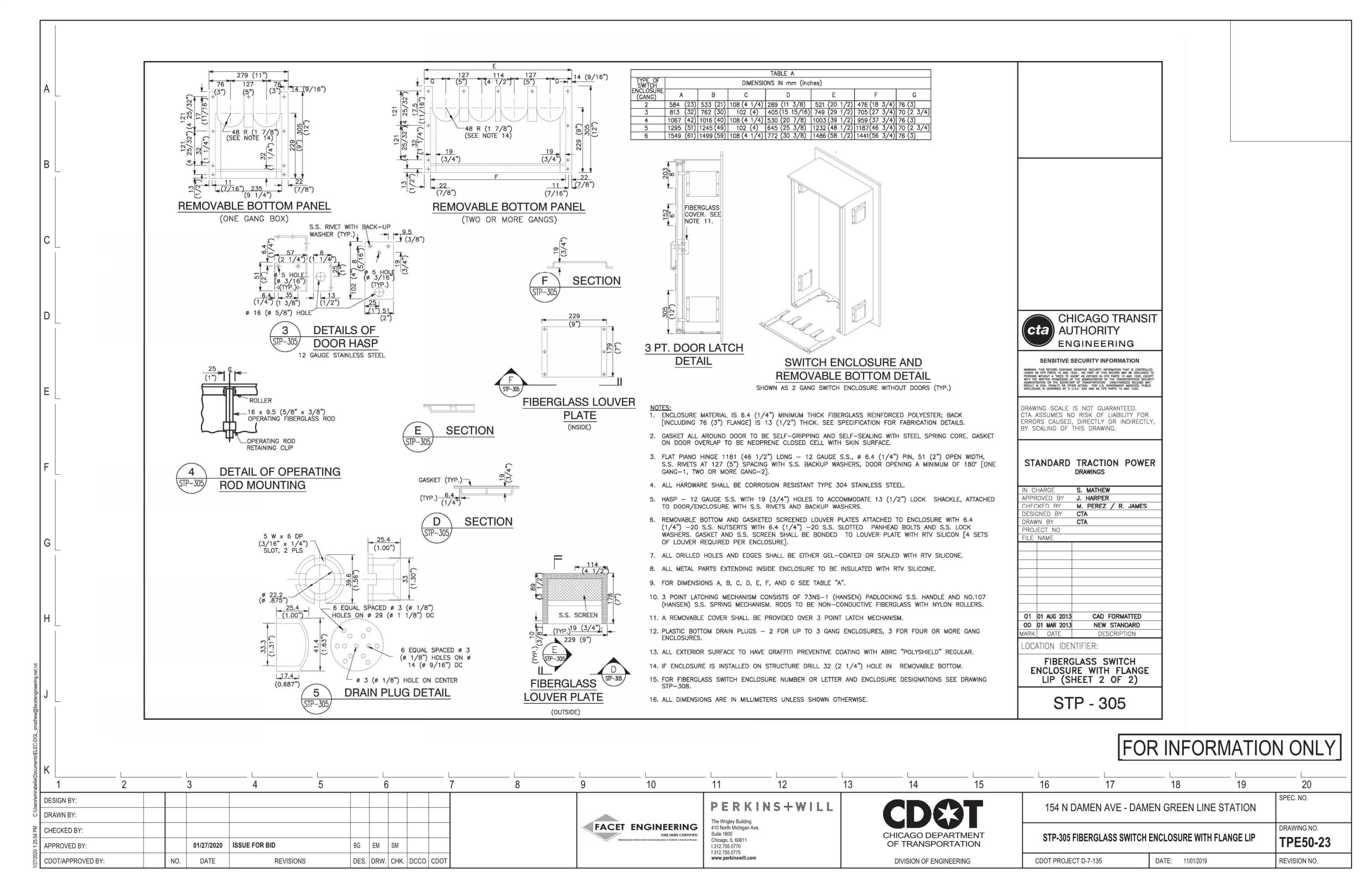


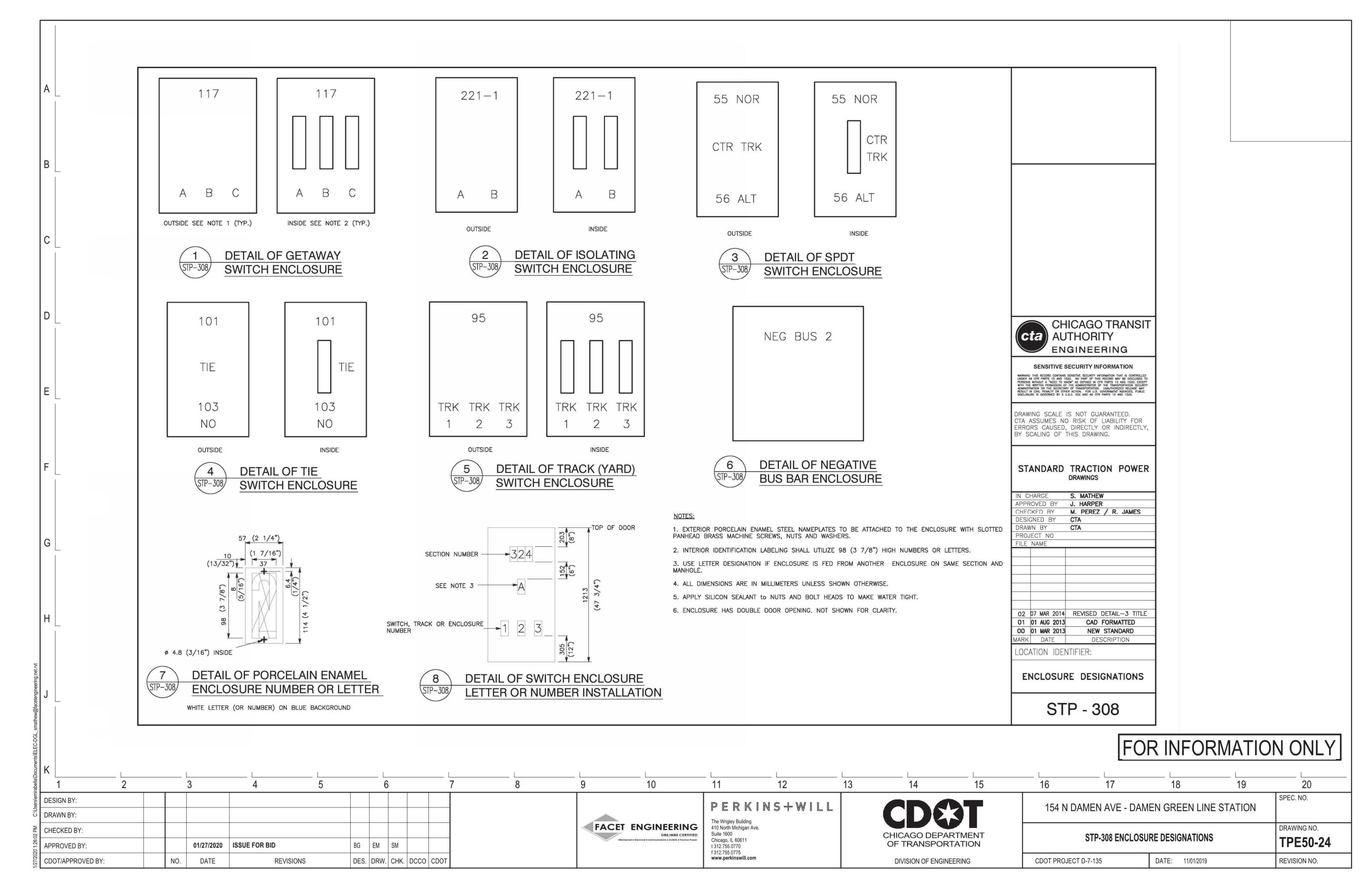


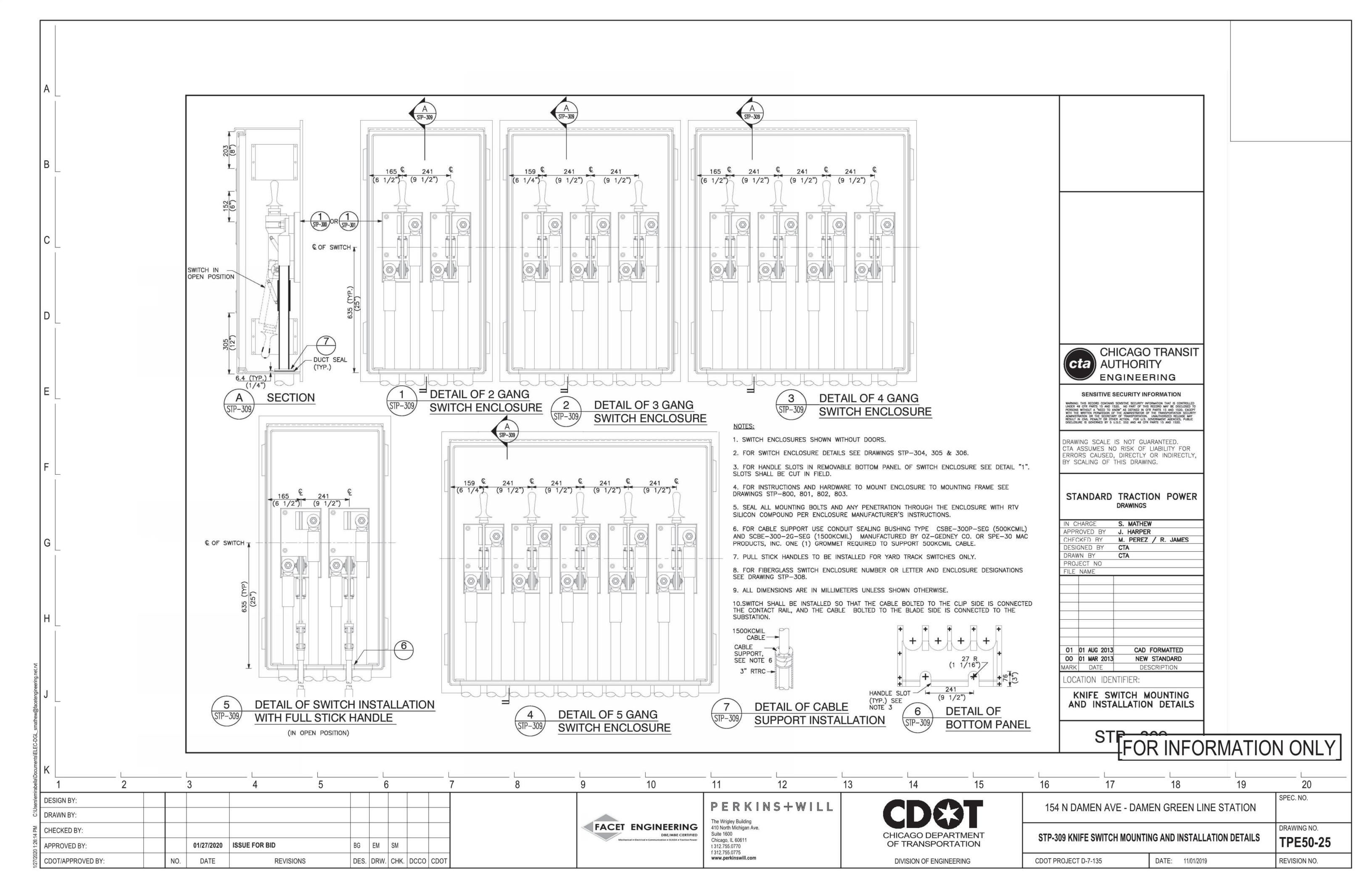


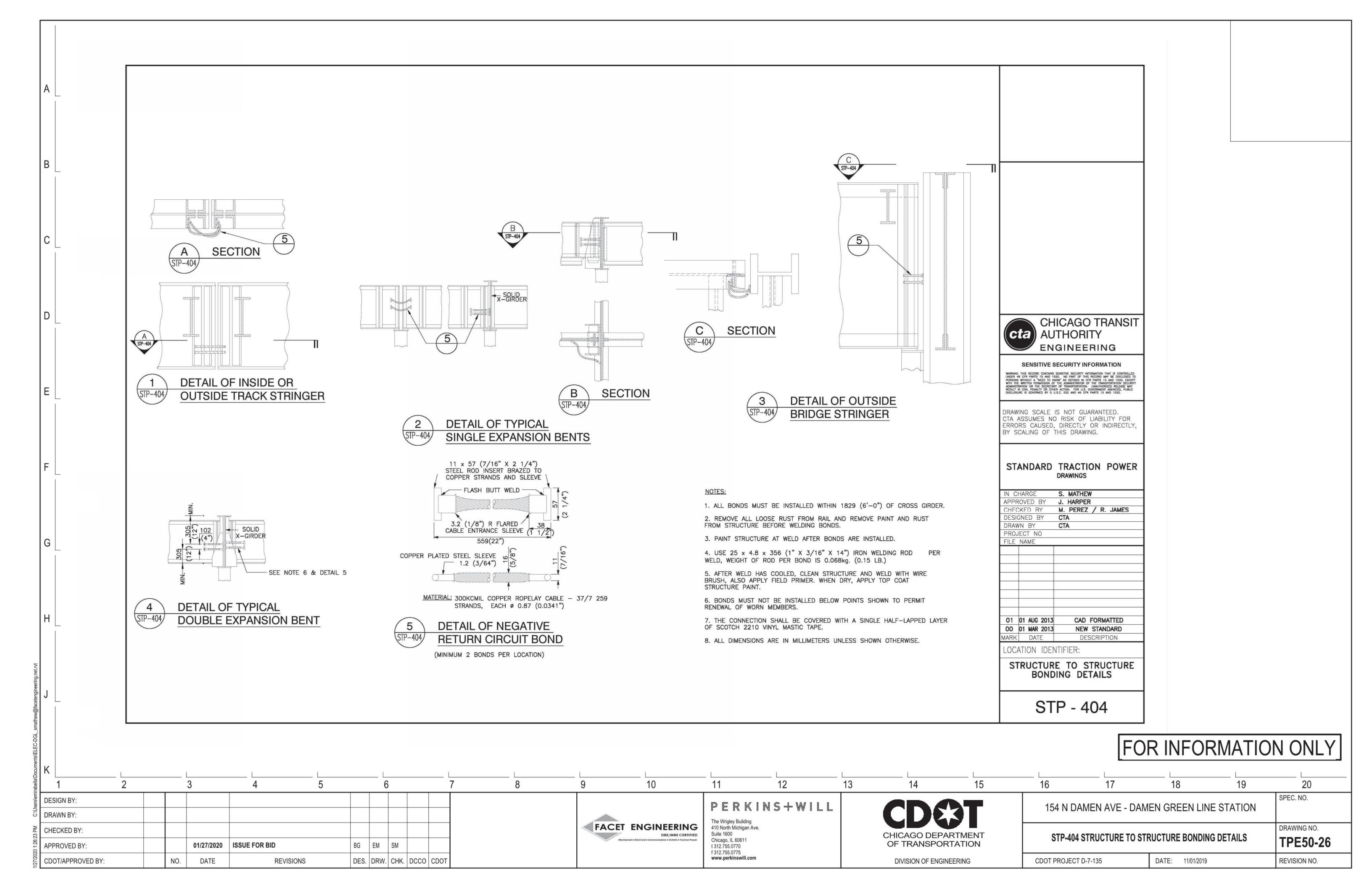


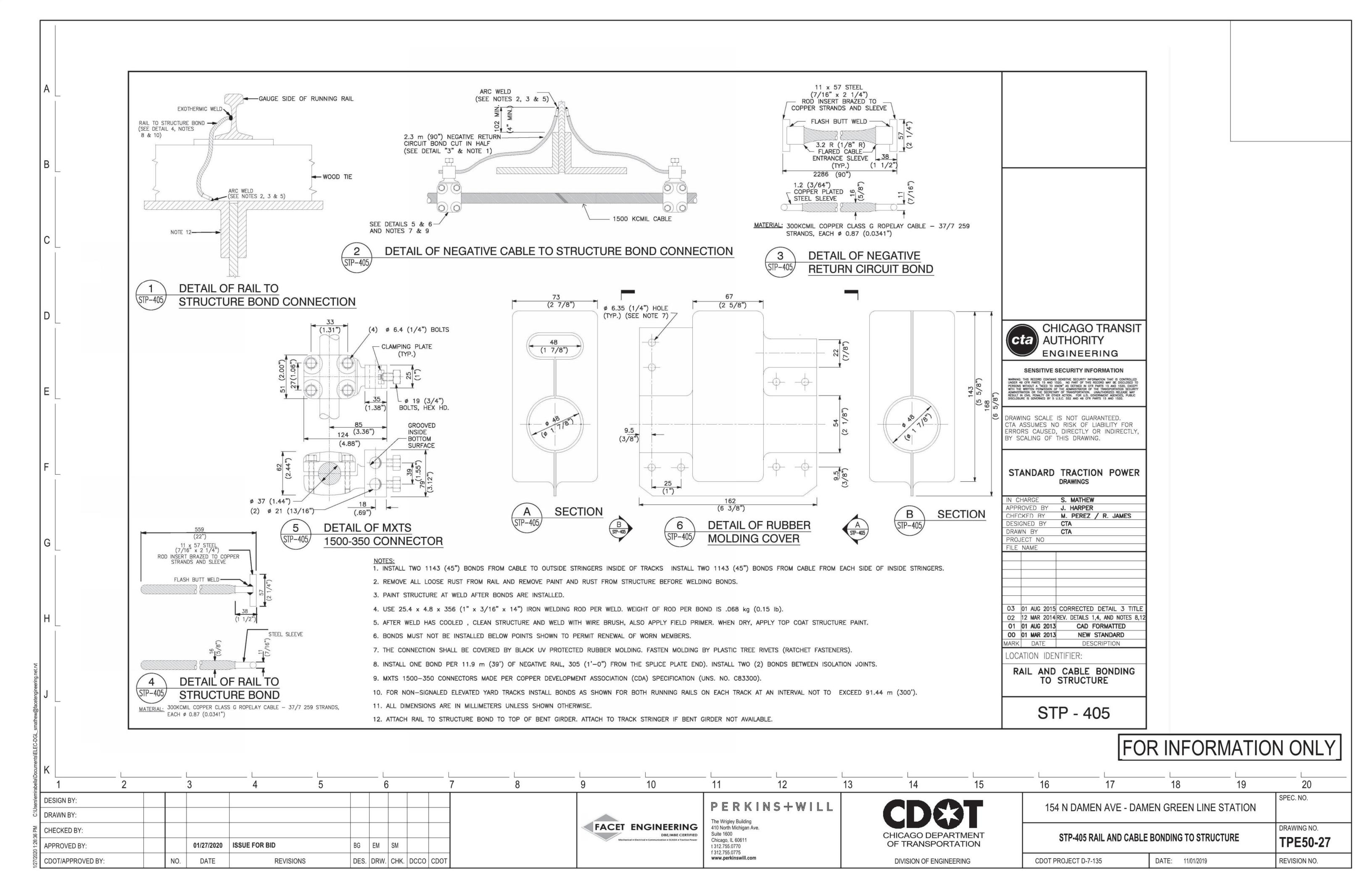


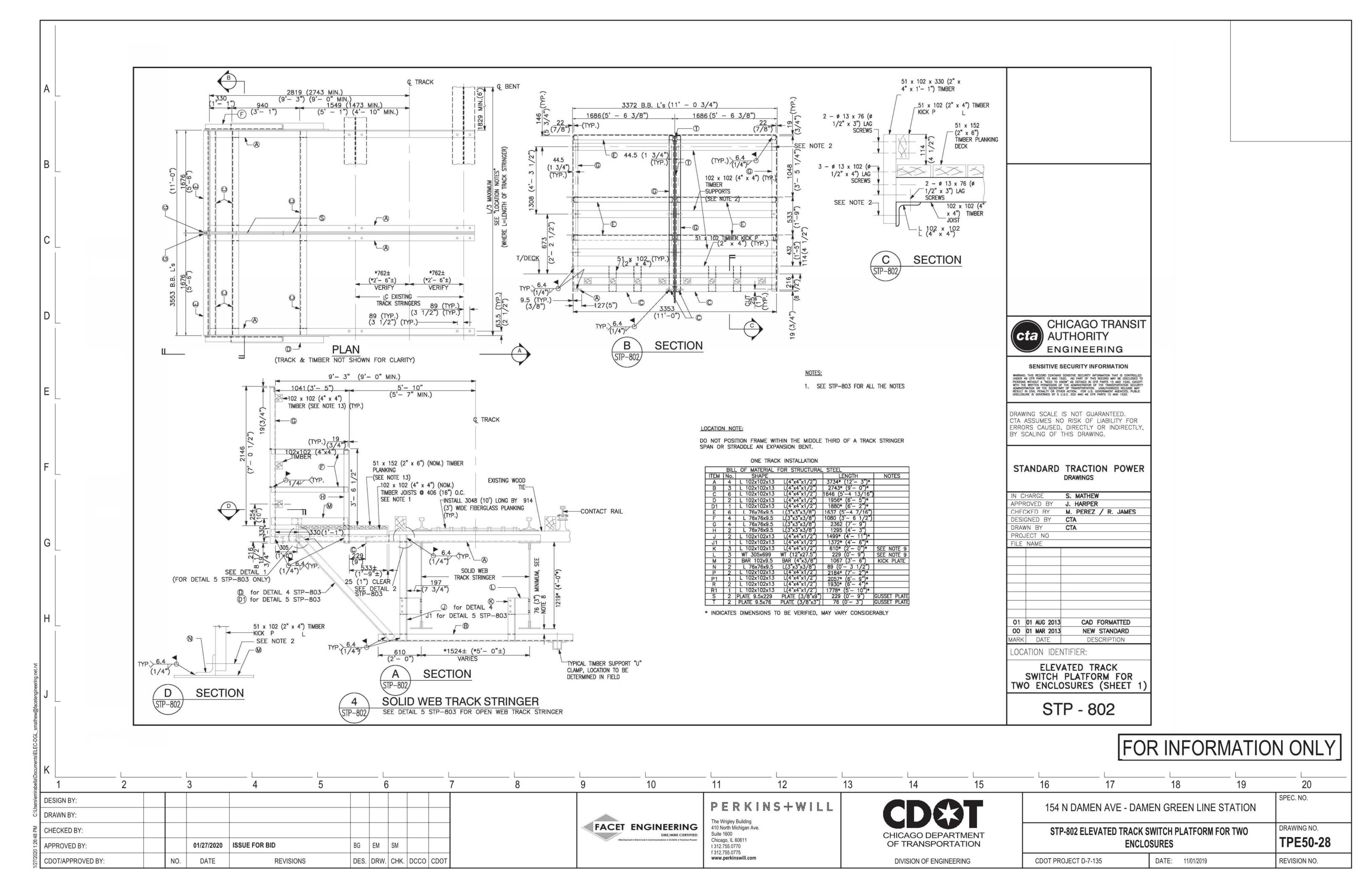


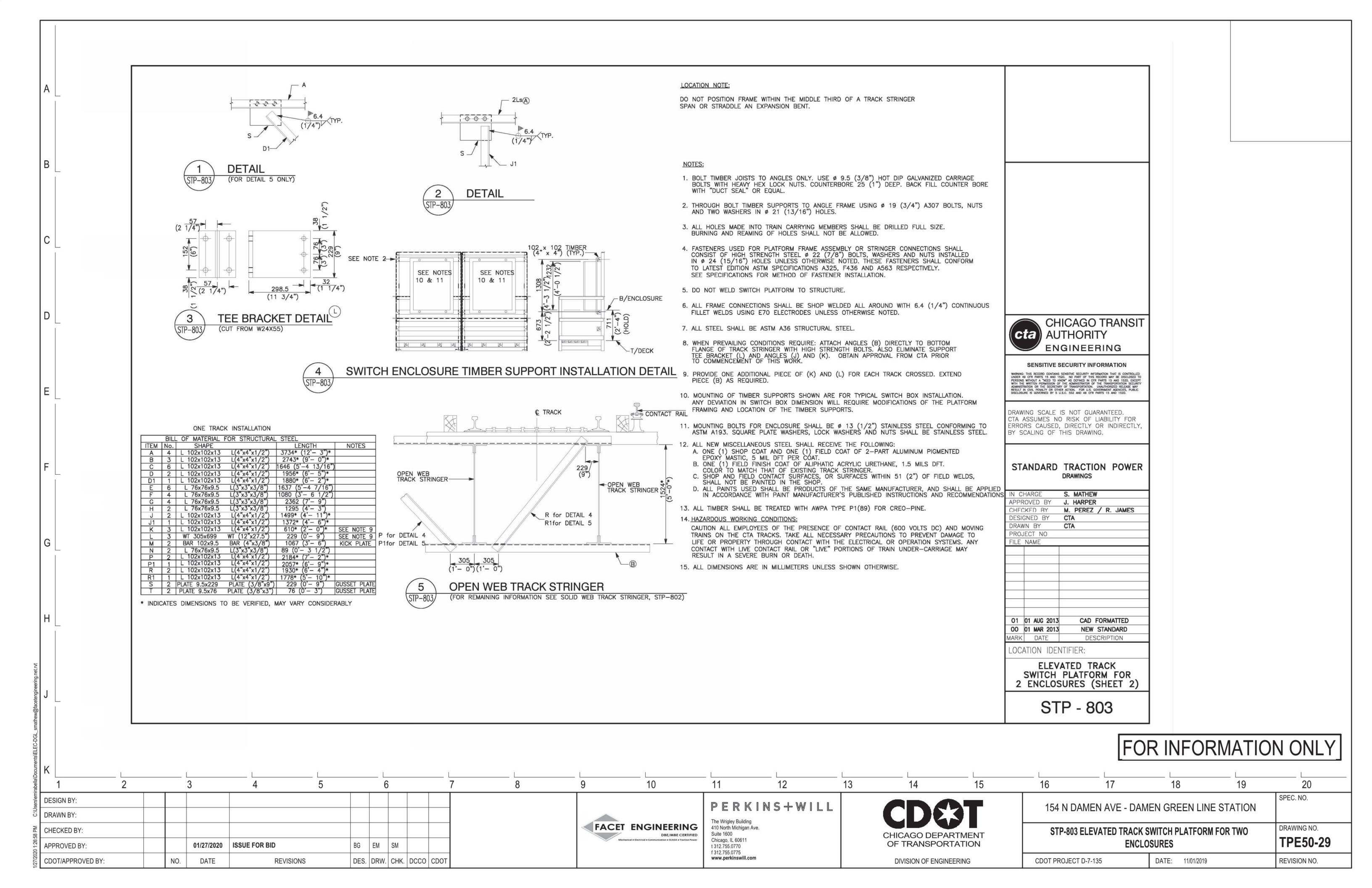


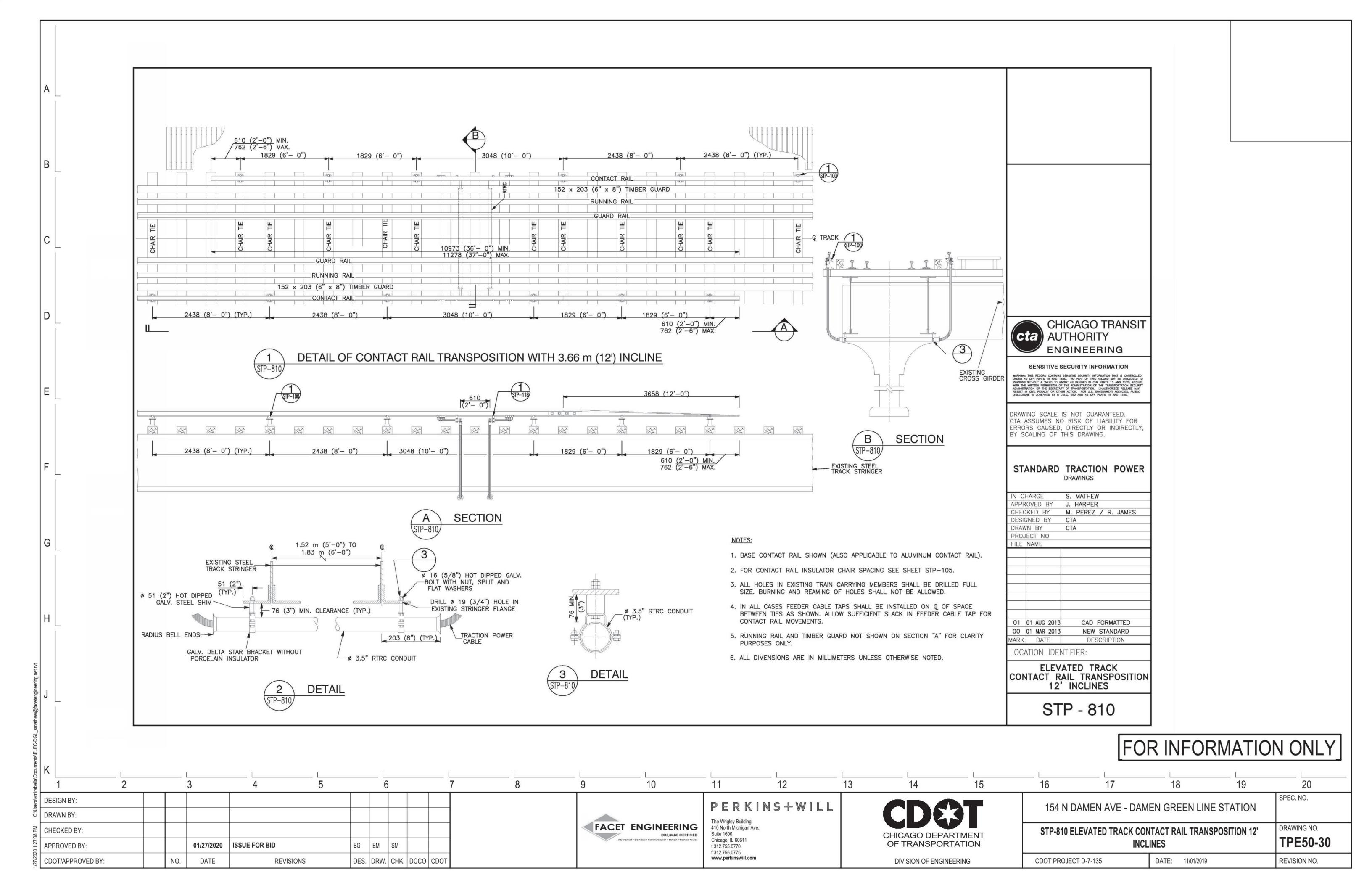


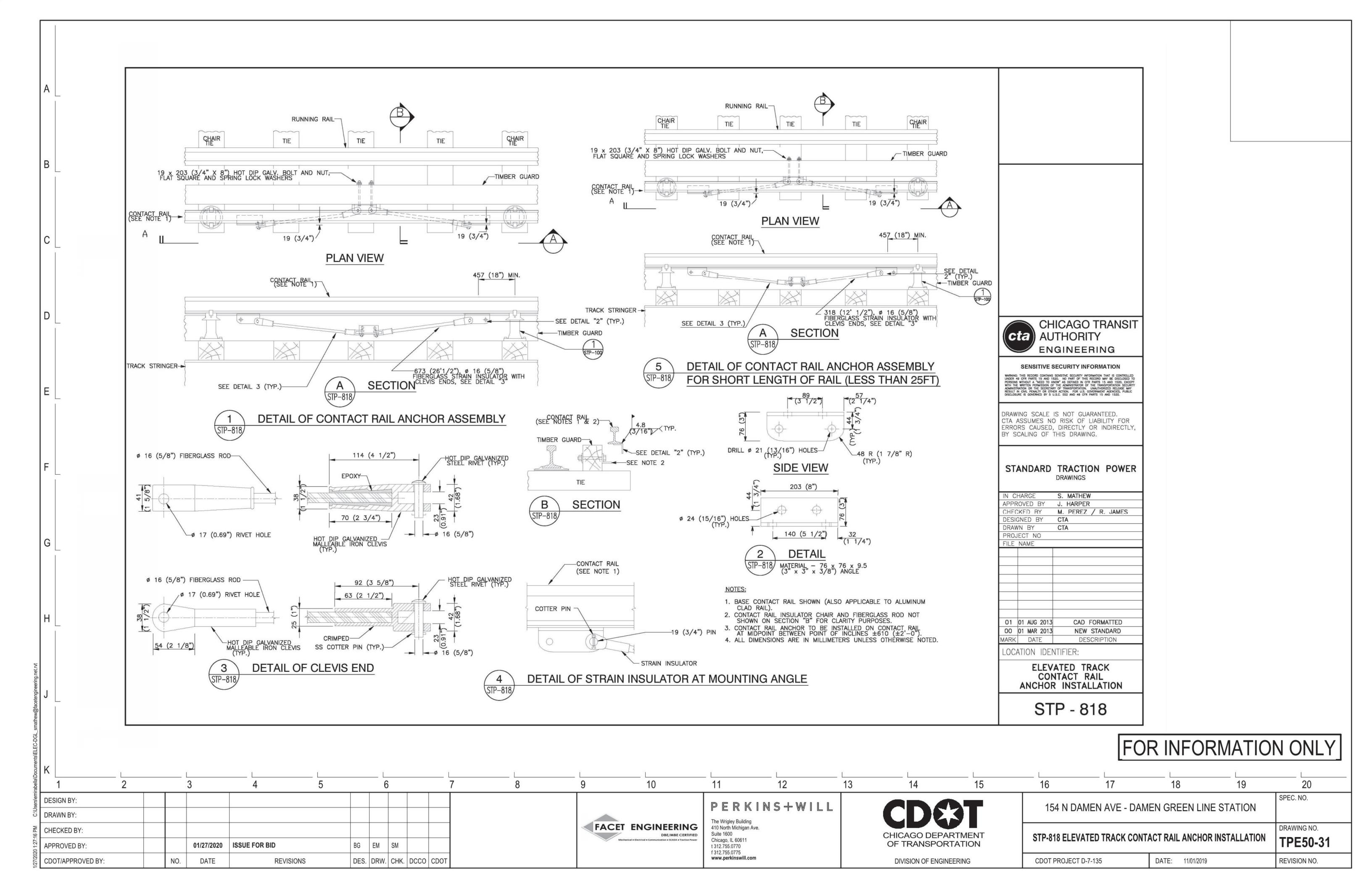


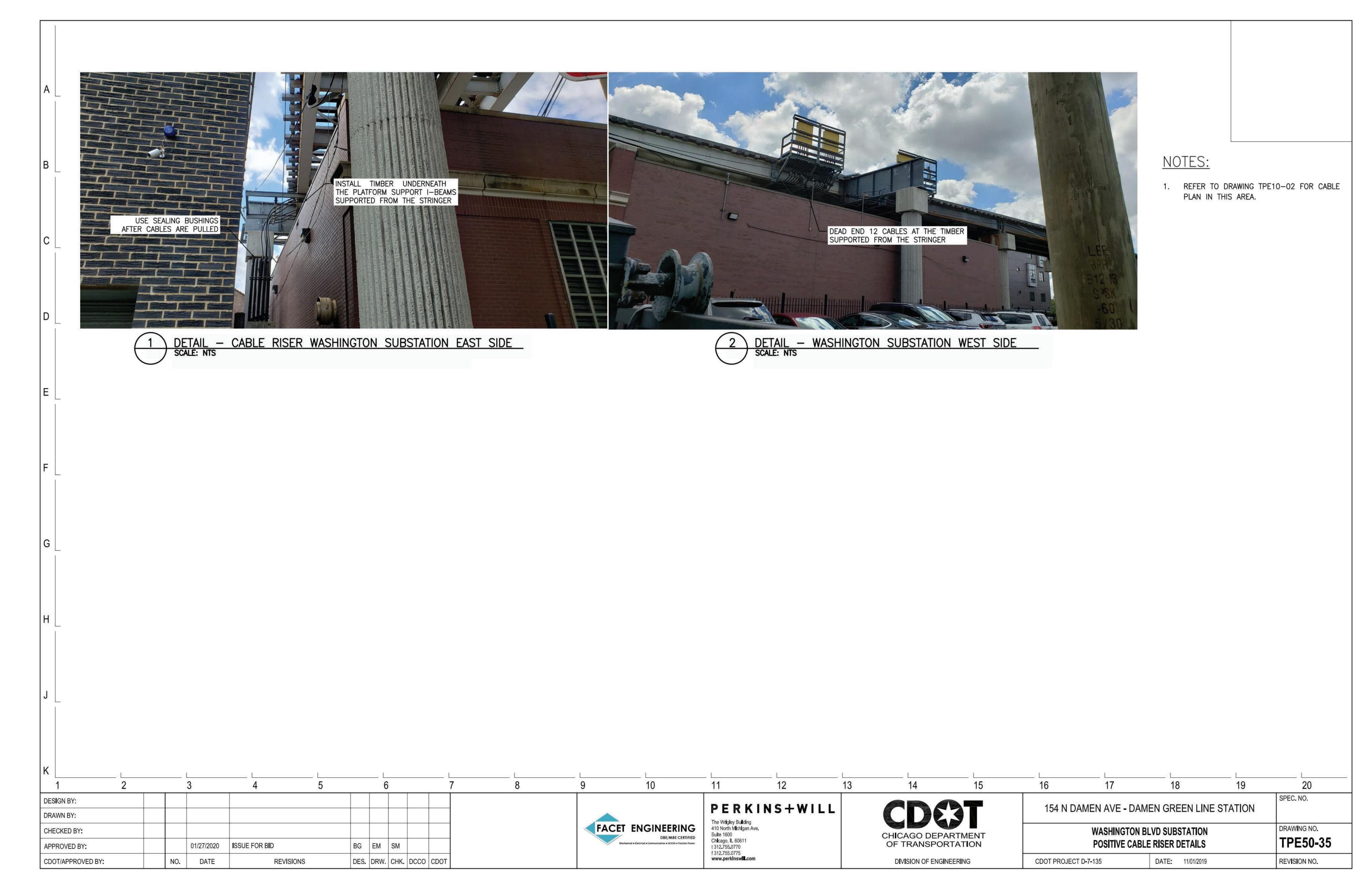


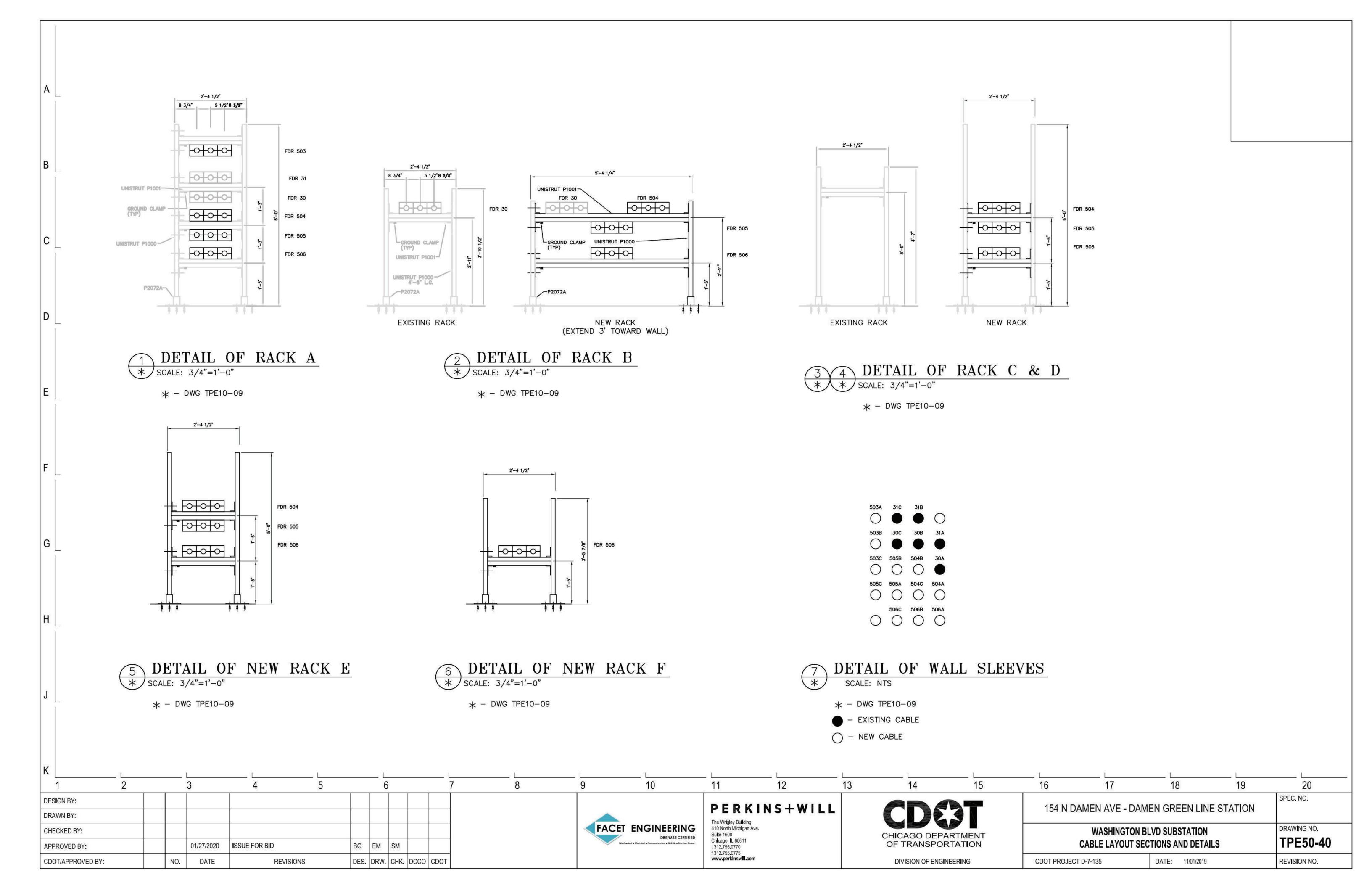


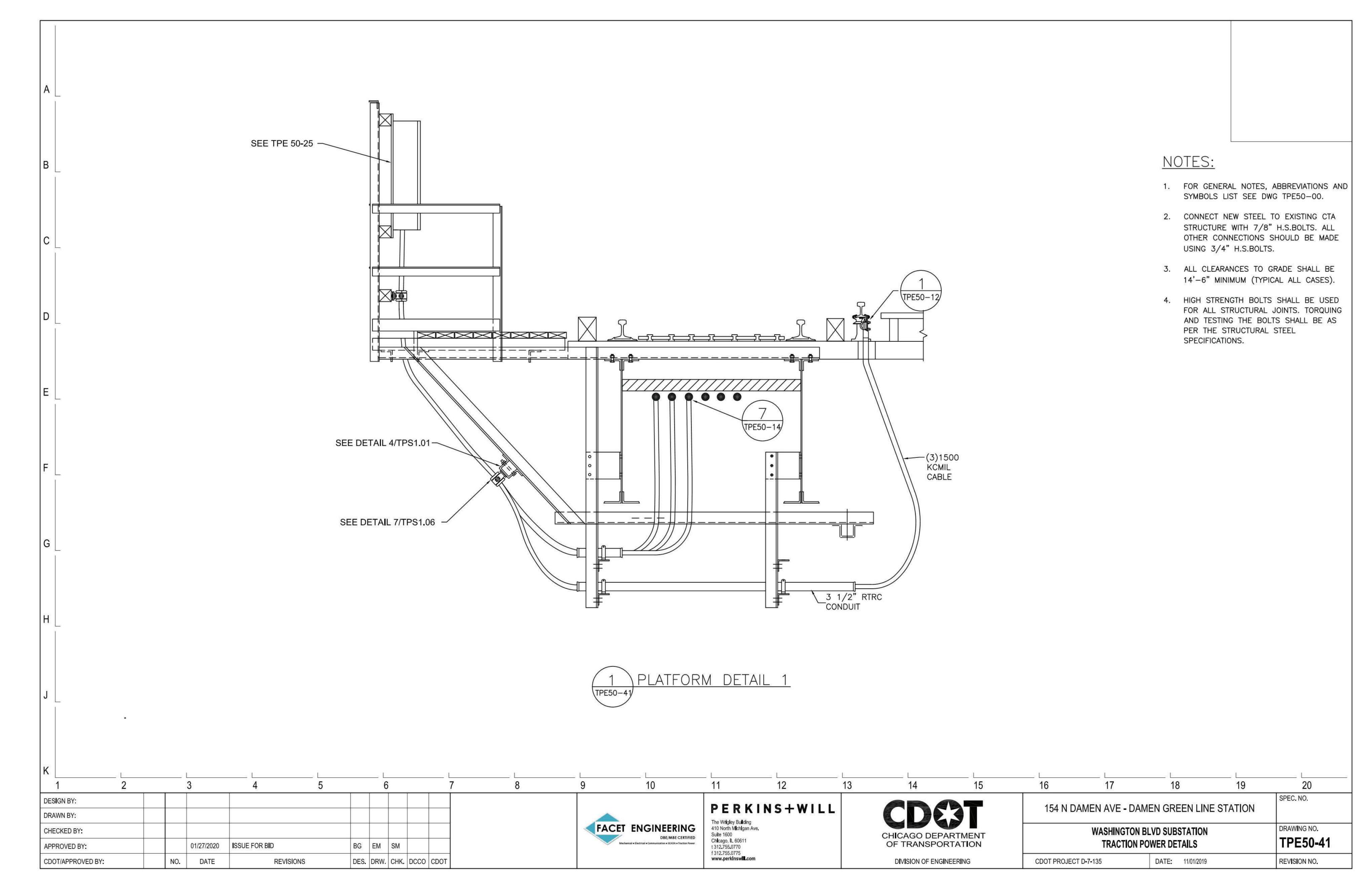


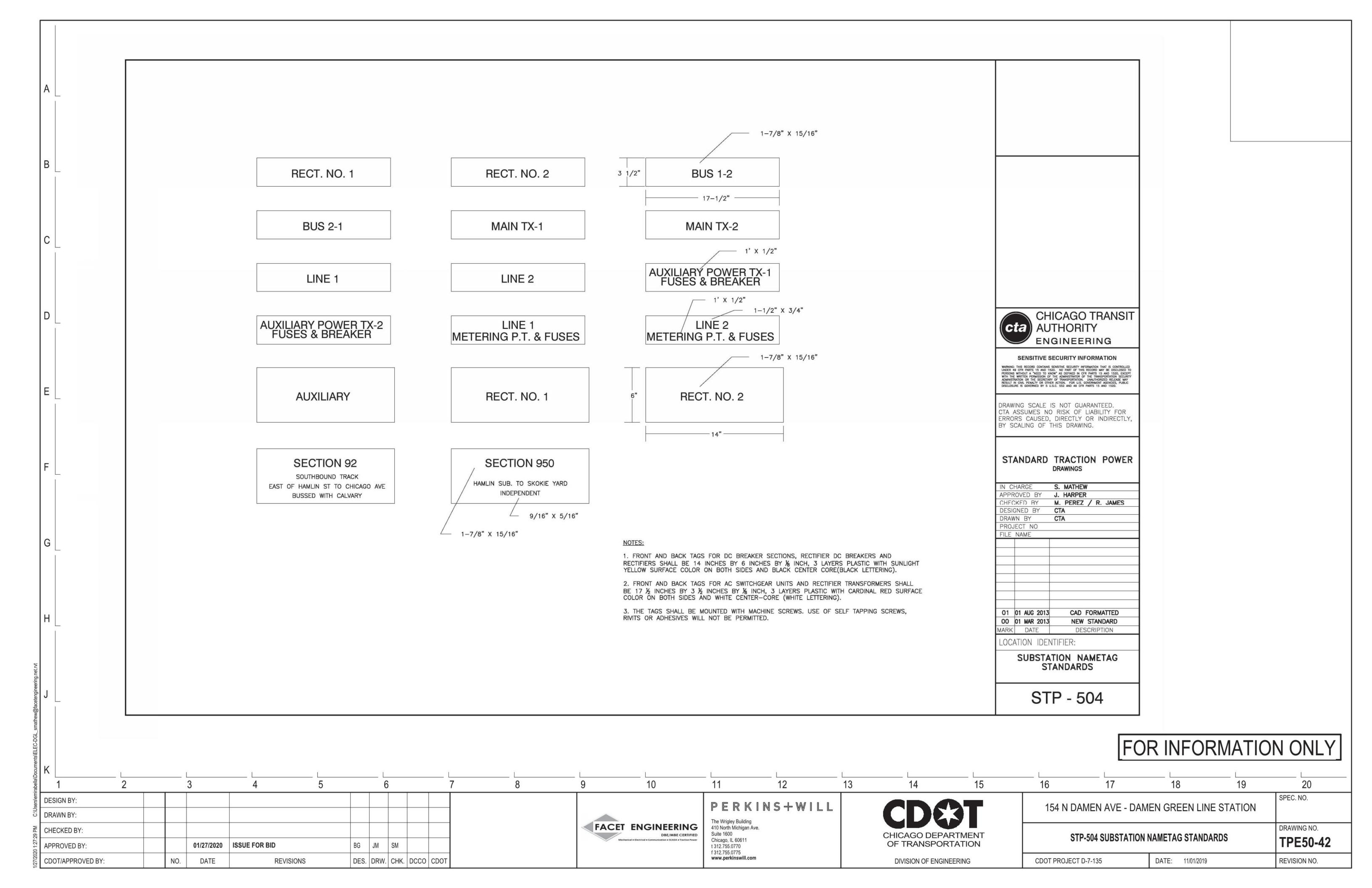


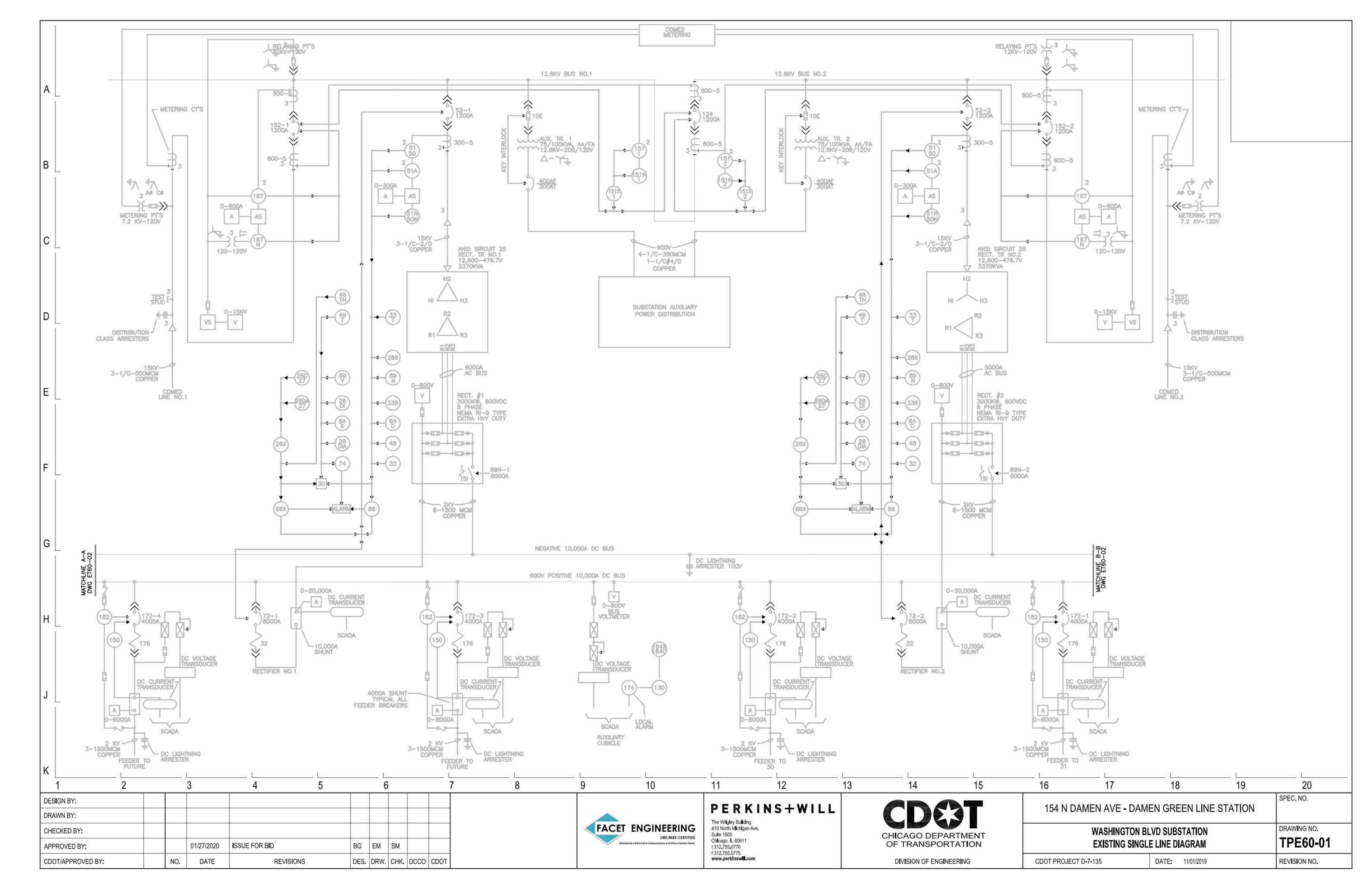


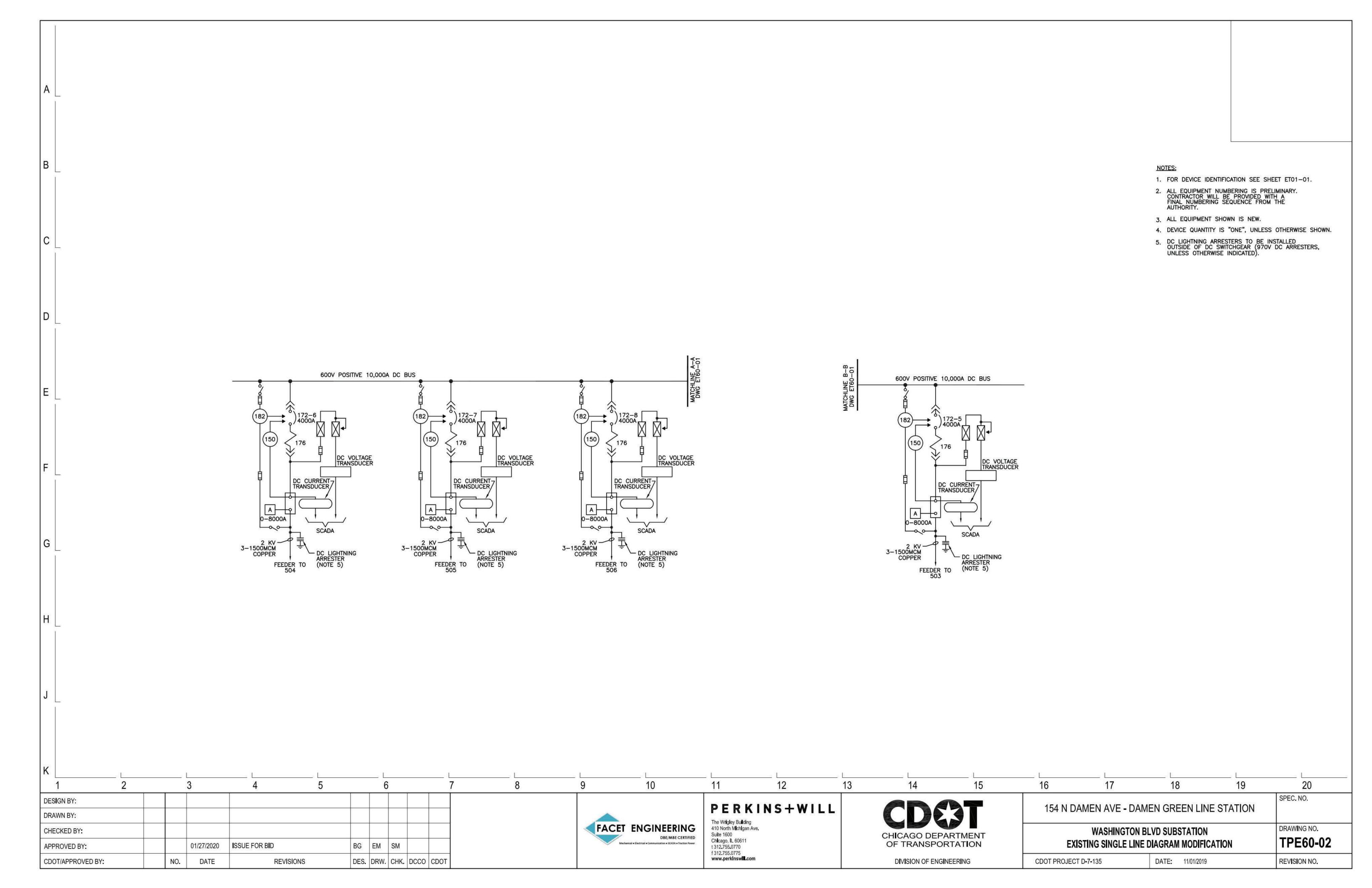


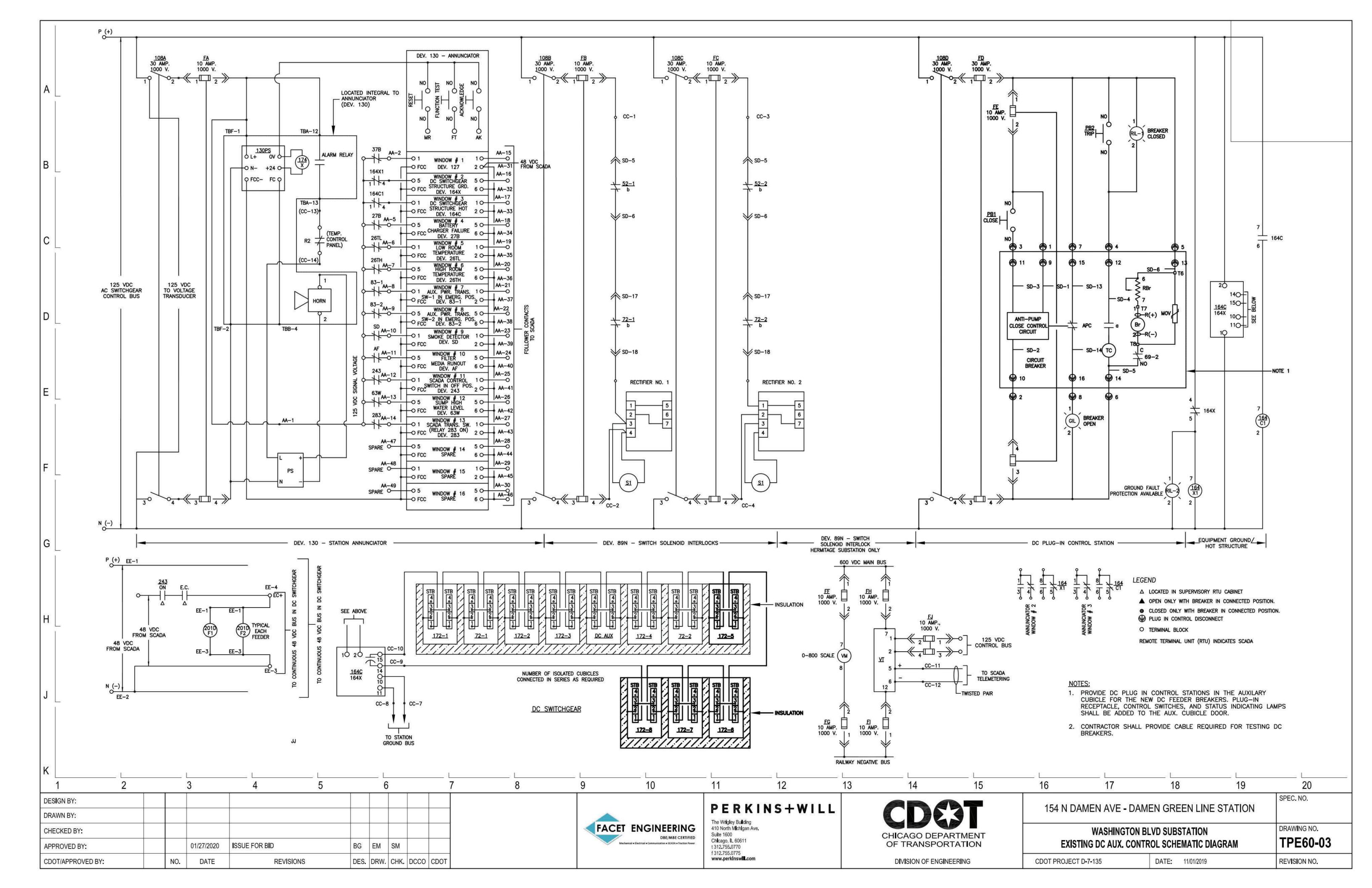


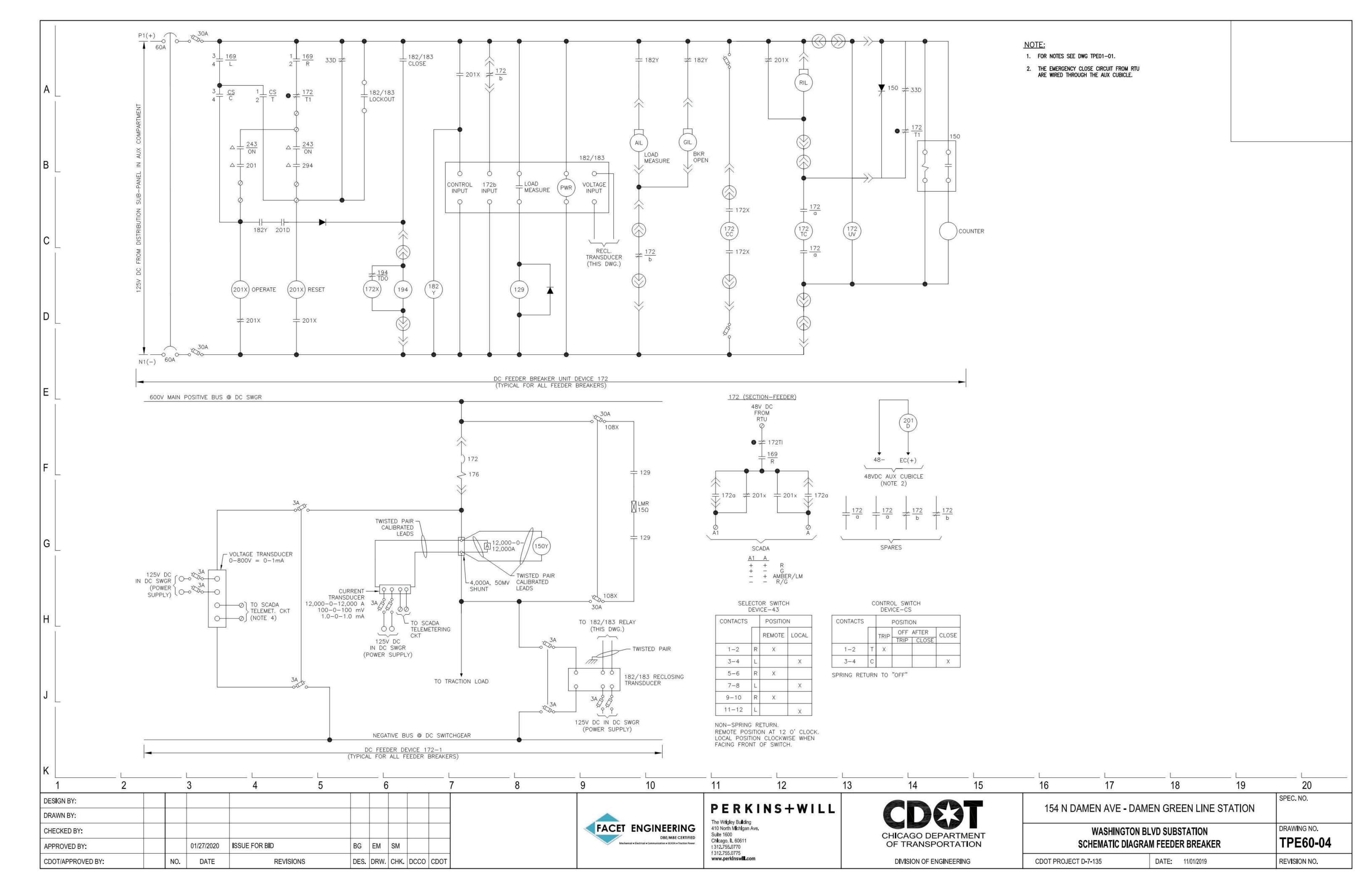


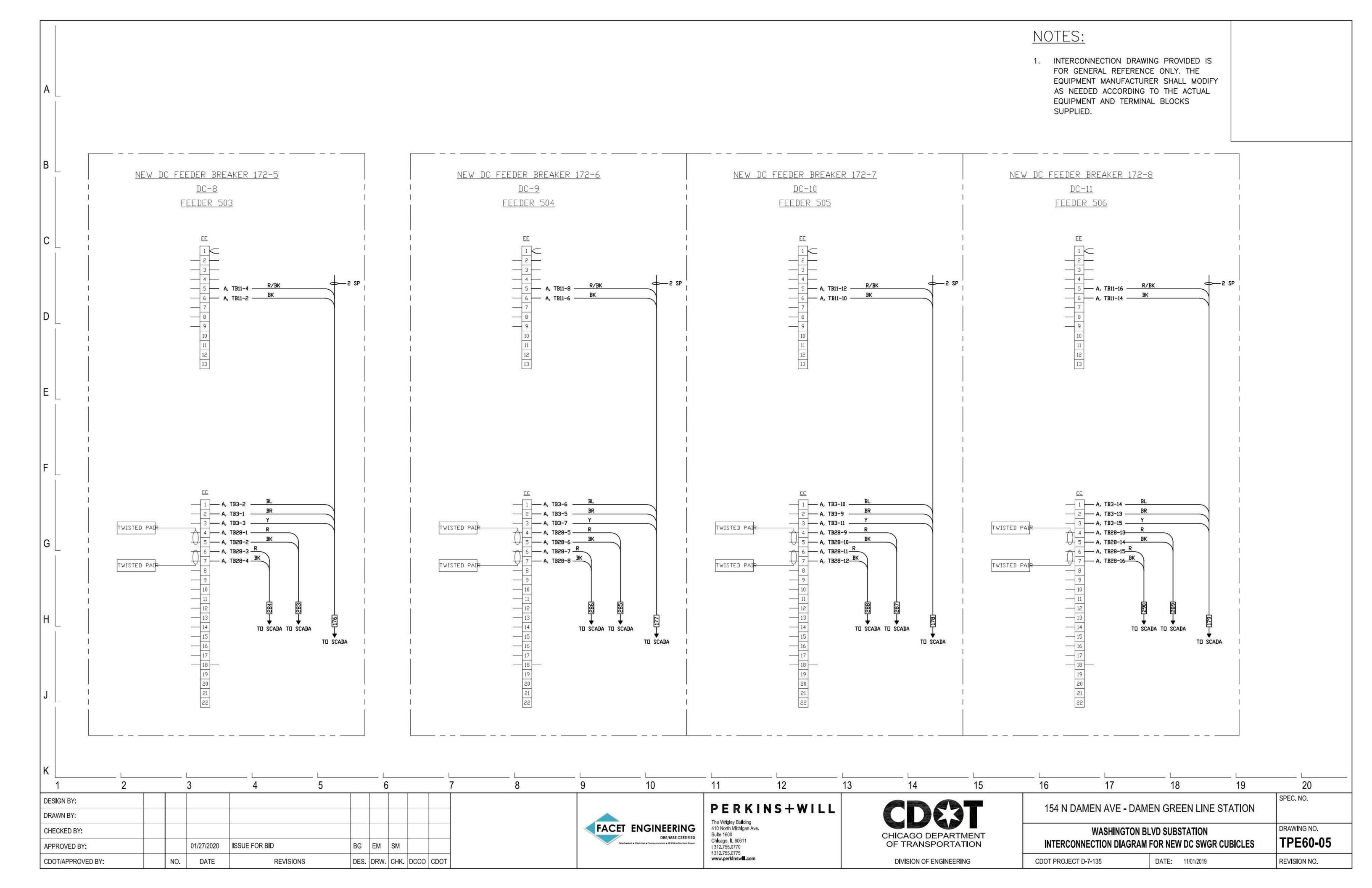


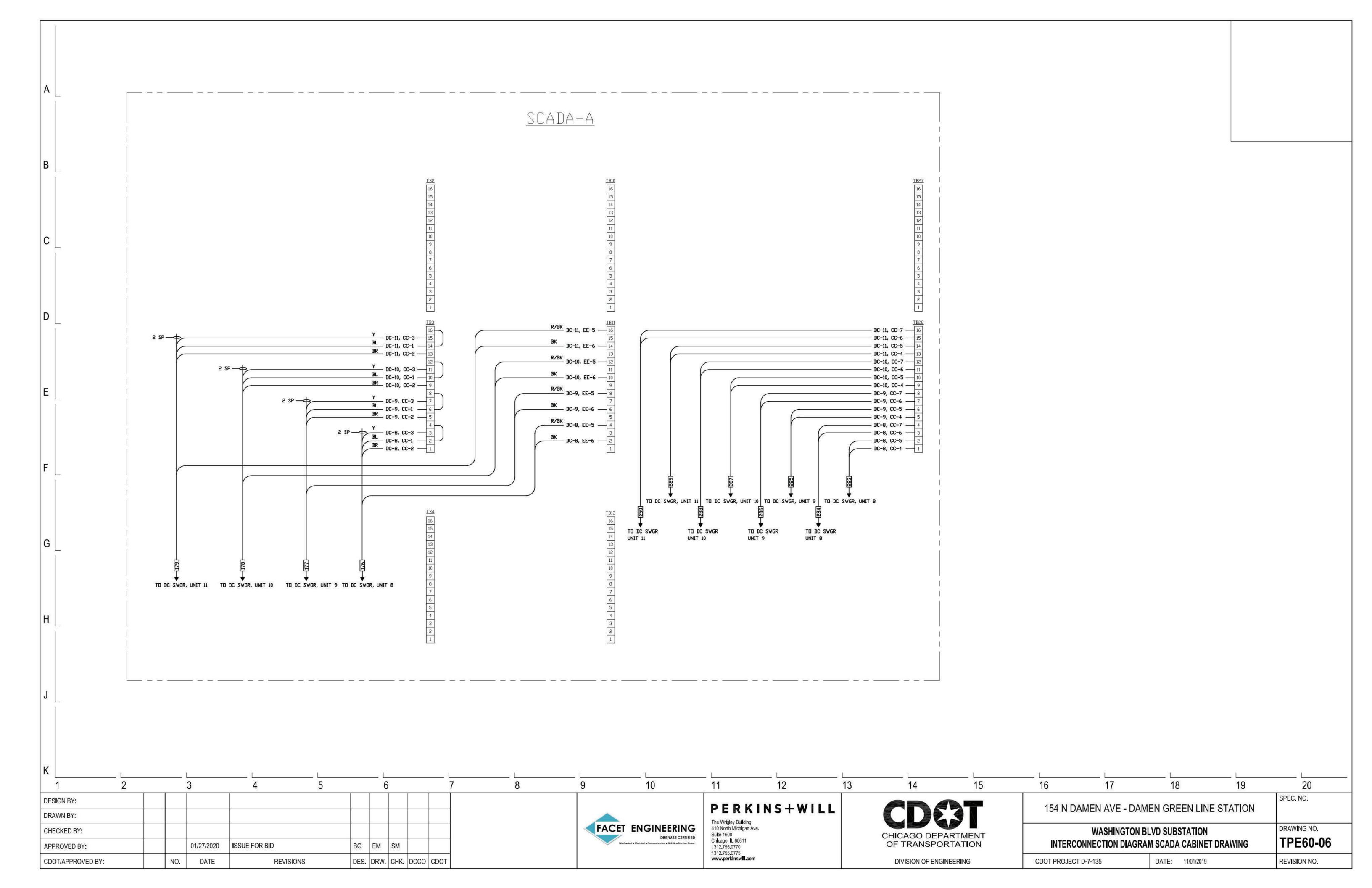












NOTES:

1. CONTRACTOR SHALL FILL IN CABLE CUTTING LENGTHS AFTER INSTALLATION.

- VW-1 INDICATES FLAME RETARDANT CABLE.
- 3. 15KV, EPR INSULATION, WITH OVERALL PVC JACKET, SHIELDED, 100% INSULATION LEVEL, OKOGUARD, OKOSEAL, TYPE MV90.

										4. RUN		S TO CABLE TRAY AND CONNE TIONS 1'-0" OR MORE APART		RE COPPER CABLE IN	I TRAY	
		CABLE S	CHEDIII E	DESCRIPTI	IUN	- F		CARLES	SCHEDIII E	DESCRIP.	TION T		CADLE	CHEDIII E	DESC	PRIPTION
CABLE ND.	FUNCTION	CABLE S	TO	DESCRIPTI NO.&SIZE INSUL. 8 OF CABLE COVER	RATED LENGT VOLT. (NOTE	H X 2)	ABLE FUNCTION	FROM	SCHEDULE TO	ND.&SIZE INSUL. DF CABLE COVER	& RATED LENGTH APPROX (NOTE 2)	CABLE FUNCTION	FROM	TD	ND.&SIZE INS	SUL. & RATED LENGTH APPROX (NOTE 2)
1	STATION COMED SUPPLY	LINE 1	AC SWGR UNIT #1	650 MCM Q2-3 XLPE	15KV	7 F	41 AC AUX.POWER-NORMAL	AC SWGR UNIT #4	PP1 NORMAL BUS	4-1/C350KCM XHHW	600V 50	81 U.H. #2-CONTROL	UNIT HEATER #2	TEMP. CONTROL PANEL	2-1/C #12 X	(HHW 600V 67
2	STATION COMED SUPPLY	LINE 2	AC SWGR UNIT #9	650 MCM Q2-3 XLPE	15KV		42 AC AUX.POWER-NORMAL	PP1 NORMAL BUS	AUTO TRANS.SW.ATS-1		600V 20	82 U.H. #4-AC FEED	PP2 NORMAL BUS	U.H. #4 DISCONNECT SW.	3-1/C #8 X	KHHW 600V 75
3	RECT. #1 SUPPLY	AC SWGR UNIT #3	RECT. TRANSFORMER #1	3-1/C#2/0 EPR/PVC	15KV 56		43 AC AUX.POWER-NORMAL	AUTO TRANS.SW.ATS-1	PP1A EMERGENCY BUS	1-1/C #2 ATTIW 4-1/C #3/0 XHHW	15	83 U.H. #4-HEATER UNIT	U.H. #4 DISCONNECT SW.	UNIT HEATER #4	3-1/C #8 X	KHHW 600V 15
4	RECT. #2 SUPPLY	AC SWGR UNIT #7	RECT. TRANSFORMER #2	3-1/C#2/0 EPR/PVC	15KV 61	d E	44 AC AUX.POWER-EMERG.	PP1 NORMAL BUS	AUTO TRANS,SW.ATS-2	4-1/C #2	18	84 U.H. #4-CONTROL	UNIT HEATER #4	TEMP. CONTROL PANEL	1-1/6 #12	(HHW 600V 81
5	NOT USED			NOTE 4		<u> </u>	45 AC AUX.POWER-NORMAL	AC SWGR UNIT #6	PP2 NORMAL BUS	4-1/C350KCM VILLW		85 NOT USED				
6	RECT.#1 POSITIVE	RECTIFIER #1	DC SWGR UNIT #2	6-1/C 1500KCM RHW-2	2KV 45	-	46 AC AUX.POWER-NORMAL	PP2 NORMAL BUS	AUTO TRANS.SW.ATS-2	1-1/C #3/0	20	86 NOT USED				
7	RECT.#1 NEGATIVE	RECTIFIER #1	STATION NEGATIVE BUS				47 AC AUX.POWER-NORMAL	AUTO TRANS.SW.ATS-2	PP2A EMERGENCY BUS	1-1/C #2	25	87 NOT USED				
8	RECT.#2 POSITIVE	RECTIFIER #2		6-1/C 1500KCM RHW-2			48 AC AUX.POWER-EMERG	PP2 NORMAL BUS	AUTO TRANS.SW.ATS-1	1-1/C #2	25	88 TOILET ROOM HEATER FEED	PP2 NORMAL BUS	TOILET ROOM HTR. DISC. SV	V 4-1/C #12 X	YHHW 600V 80
										1-1/C #2			TOILET ROOM HTR. DISC. SW.		65 000 000	
	RECT.#2 NEGATIVE	RECTIFIER #2	STATION NEGATIVE BUS	6-1/C ISUKKUM RHW-2	2KV 16		49 125V BATTERY	PP1A EMERGENCY BUS	BATT. CHGR. DISC. SW.	1-1/C #6 ^HHW			TOILET ROOM HIR. DISC. SW.	TOILET ROOM HEATER	3-1/C #12 X	(HHW 600V 21
	NOT USED				7 S		50 125V DC PANEL FEED	125V BATTERY TERM (POS.)	DC PANEL		600V 15	90 NOT USED				
11	NOT USED					$\exists \vdash$	51 125V DC PANEL FEED	125V BATTERY TERM (NEG.)	DC PANEL	1-1/C #2 XHHW	600V 28	91 NOT USED				
12	NOT USED					7 F	52 BATT. CHARGER POS.	BATTERY DISC. SW.	125V BATTERY TERM (PO	S) 1-1/C #2 XHHW	600V 12	92 NOT USED				
13	NOT USED				A S	 	53 BATT. CHARGER. NEG.	BATTERY DISC. SW.	125V BATTERY TERM (NE	G) 1-1/C #2 XHHW	600V 25	93 EXH. FAN #1 FEED	PPIA EMERGENCY BUS	EXH. FAN #1 STARTER	4-1/C #12 X	KHHW 600V 69
14	NOT USED					 	54 BATT. CHARGER POS.	BATTERY DISC. SW.	BATTERY CHARGER (POS) 1-1/C #2 XHHW	600V 5	94 EXH. FAN #1 MOTOR	EXH. FAN #1 STARTER	EXH. FAN #1 MOTOR	3-1/C #12 X	KHHW 600V 10
15	NOT USED					<u> </u>	55 BATT. CHARGER NEG.	BATTERY DISC. SW.	BATTERY CHARGER (NEG) 1-1/C #2 XHHW	600V 5	95 EXH. FAN #1 CONTROL	EXH. FAN #1 STARTER	DAMPER M2 END SW. E-2	2-1/C #12 X	(HHW 600V 14
16	FEEDER POS. (30)	DC SWGR UNIT #5	SWITCH ENCLOSURE 30	3-1/C 1500KCM RHW-2	2KV 95	+	56 AC SWGR DC FEED	DC PANEL	AC SWGR UNIT #5	2-1/C #6 XHHW	600V 52	96 EXH. FAN #2 FEED	PP2A EMERGENCY BUS	EXH. FAN #2 STARTER	4-1/C #12 X	(HHW 600V 98
	FEEDER POS. (30)	SWITCH ENCLOSURE 30	CONTACT RAIL	3-1/C 1500KCM RHW-2	2KV 20	7 F	57 DC SWGR DC FEED	DC PANEL	DC SWGR UNIT #4	2-1/C #6 XHHW		97 EXH. FAN #2 MOTOR	EXH. FAN #2 STARTER	EXH. FAN #2 MOTOR		KHHW 600V 8
	FEEDER POS. (31)	DC SWGR UNIT #7	SWITCH ENCLOSURE 31	3-1/C 1500KCM RHW-2] [58 AC TEST CAB.D.C.FEED	DC PANEL	AC BKR TEST CAB.	1-2/C #10 TC(W-1/XH		98 EXH. FAN #2 CONTROL		DAMPER M4 END SW. E-4	6 89 - 30 T	
	FEEDER POS. (31)						59 EMERG.LTG.FEED			NOTE 3 (T	YP)	99 NOT USED	EATH TARK #E STARTER	57.1111 ETT 1111 ETT 0111 ETT	2-1/0 #12 ^	14
	7 7	SWITCH ENCLOSURE 31	CONTACT RAIL	3-1/C 1500KCM RHW-2				DC PANEL	EMERG.LTG.CONTACTOR	NOTE 3 (T	YP)					
	FEEDER POS. (503)	DC SWGR UNIT #503	SWITCH ENCLOSURE 503				60 RECTIFIER#1 DC POWER	DC PANEL	RECTIFIER #1	1-2/C #10 TC(VW-1/XH NOTE 3 (T	YP)	100 NOT USED				
	FEEDER POS. (503)	SWITCH ENCLOSURE 503	CONTACT RAIL	3-1/C 1500KCM RHW-2	2KV		61 RECTIFIER#2 DC POWER	DC PANEL	RECTIFIER #2	1-2/C #10 TC(VW-1/XH NOTE 3 (T	HW) 600V 45 YP)	101 NOT USED				
22	FEEDER POS. (504)	DC SWGR UNIT #504	SWITCH ENCLOSURE 504	3-1/C 1500KCM RHW-2	2KV	7 -	62 NOT USED					102 NOT USED				
23	FEEDER POS. (504)	SWITCH ENCLOSURE 504	CONTACT RAIL	3-1/C 1500KCM RHW-2	2KV	7 F	63 RECTIFIER #1 CONTROL	RECTIFIER #1	GROUND BUS (SEE NOTE	5) 2-1/C #10 XHHW	2KV 21	103 NOT USED				
24	FEEDER POS. (505)	DC SWGR UNIT #505	SWITCH ENCLOSURE 505	3-1/C 1500KCM RHW-2	2KV		64 RECTIFIER #2 CONTROL	RECTIFIER #2	GROUND BUS (SEE NOTE	5) 2-1/C #10 XHHW	2KV 18	104 NOT USED				
25	FEEDER POS. (505)	SWITCH ENCLOSURE 505	CONTACT RAIL	3-1/C 1500KCM RHW-2	2KV		65 NOT USED	4				105 RECT. #1 CONTROL	RECTIFIER #1	DC SWGR UNIT #2	1-7/C #12 TC(W	W-1/XHHW) 600V 40
26	FEEDER POS. (506)	DC SWGR UNIT #506	SWITCH ENCLOSURE 506	3-1/C 1500KCM RHW-2	2KV	d	66 SCADA DC FEED	DC PANEL	SCADA CABINET	1-2/C #10 TC(WW-1/XH	HW) 600V	106 RECT. #1 CONTROL	RECTIFIER #1	DC SWGR UNIT #2	1-7/C #12 TC(W	W-1/XHHW) 600V 40
27	FEEDER POS. (506)	SWITCH ENCLOSURE 506	CONTACT RAIL	3-1/C 1500KCM RHW-2	2KV	- H	67 NOT USED			NOTE 3 (T	YP)	107 RECT. #1 CONTROL	RECTIFIER #1	DC SWGR UNIT #2	1-7/C #12 TC(W	W-1/XHHW) 600V 40
28	NOT USED					7 6	68 NOT USED					108 RECT. #1 CONTROL	RECTIFIER #1			
	NOT USED						69 NOT USED					108A RECT. #1 CONTROL 109 RECT. #1 CONTROL	RECTIFIER #1 RECTIFIER #1	RECT. TRANSFORMER #1 AC SWGR UNIT #3		W-1/XHHW) 600V 38 W-1/XHHW) 600V 38 W-1/XHHW) 600V 41
	NOT USED					7 6	70 U.H.#1-AC FEED	DD4 NODWAL BUG				100			A 503K 1 50	W-1/XHHW) 600V 52
								PP1 NORMAL BUS	U.H. #1 DISCONNECT SV	1-1/C #12	600V 85	110 RECT. #1 CONTROL	DC SWGR UNIT #2	AC SWGR UNIT #3		
	NOT USED					П Г	71 U.H.#1—HEATER UNIT	U.H.#1 DISCONNECT SW.	UNIT HEATER #1	3-1/C #8 1-1/C #12 XHHW	600V 15	111 RECT. #1 CONTROL	RECTIFIER #1	AC SWGR UNIT #3		W-1/XHHW) 600V 41
32	NEG.FEEDERS (N1 TO N9)	STATION NEGATIVE BUS	TRACK STRINGERS	9-1/C1500KCM RHW-2	2KV 35		72 U.H.#1—CONTROL	UNIT HEATER #1	TEMP.CONTROL PANEL	2-1/C #12 XHHW	600V 82	112 SUPV. & CONTROL	RECTIFIER #1	SCADA CABINET	1-7/C #12 TC(W	W-1/XHHW) 600V 55
33	NOT USED					7 F	73 U.H.#3-AC FEED	PP1 NORMAL BUS	U.H. #3 DISCONNECT SV	V. 3-1/C #8 XHHW	600V 85	113 SUPV. & CONTROL	RECTIFIER #1	SCADA CABINET	1-7/C #12 TC(W	W-1/XHHW) 600V 55
34	NOT USED						74 U.H.#3-HEATER UNIT	U.H.#3 DISCONNECT SW.	UNIT HEATER #3	3-1/C #8 XHHW	600V 15	114 SUPV. & CONTROL	RECTIFIER #1	SCADA CABINET	1-7/C #12 TC(W	W-1/XHHW) 600V 55
35	NOT USED					1	75 U.H.#3-CONTROL	UNIT HEATER #3	TEMP.CONTROL PANEL	1-1/C #12 2-1/C #12 XHHW	600V 25	115 RECT. #1 INTERLOCK	RECTIFIER #1	RECTIFIER #2	1-7/C #12 TC(W	W-1/XHHW) 600V 45
36	NOT USED						76 U.H.#5-AC FEED	PP1 NORMAL BUS	U.H. #5 DISCONNECT SV	v. 3-1/C #8 XHHW	600V 75	116 RECT. #1 CONTROL	RECTIFIER #1	DC SWGR UNIT #4	1-7/C #12 TC(W	W-1/XHHW) 600V 40
37	NOT USED						77 U.H.#5—HEATER UNIT	U.H.#5 DISCONNECT SW.	UNIT HEATER #5	7 1/0 #12	600V 15	117 RECT. #1 AC POWER	PPIA EMERGENCY BUS	RECTIFIER #1	1-2/C #10 TC(W	W-1/XHHW) 600V 47
38	NOT USED					<u> </u>	78 U.H.#5-CONTROL	UNIT HEATER #5	TEMP.CONTROL PANEL	1-1/C #12 XHHW 2-1/C #12 XHHW		118 NOT USED				
	NOT USED						79 U.H.#2-AC FEED	PP2 NORMAL BUS	U.H. #2 DISCONNECT SV			119 NOT USED				
	NOT USED						80 U.H.#2-HEATER UNIT	U.H.#2 DISCONNECT SW.	UNIT HEATER #2	1-1/C #12	15	120 NOT USED				
							String to Treat Heart Will	The state of the s	The state of the s	1-1/C #12 XHHW	600V 13					
								p 1							w	
	2	3 4	5	6	7		8 9	10	11	12	13	14 15	16	17 18		19 20
Y:									DEDKI	NS+WIL	ز ا ز		154 N DAME	N AVE - DAMEN GRE	EN I INE ST	TATION SPEC. NO.
Y:									The Wrigley Building	140 1 WIL		CDEST	TOT IN DAINE	TATIVE - DAWLIN GIVE	LIN LINE O	I/ATION
BY:								FACET ENGINEERIN	410 North Michigan Ave.		I .	HICAGO DEPARTMENT	V	VASHINGTON BLVD SUB	STATION	DRAWING
		04/27/2020 ISSUE FOR PID	R	G EM SM				DBE/MBE CE Mechanical • Electrical • Communication • SCADA • Tract	Chleago II 60611			OF TRANSPORTATION	CAB	LE SCHEDULE FROM CA.	1 TO CA-120	TPE6
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NOTES:

- 1. CONTRACTOR SHALL FILL IN CABLE CUTTING LENGTHS AFTER INSTALLATION.
- 2. VW-1 INDICATES FLAME RETARDANT CABLE.
- 3. 15KV, EPR INSULATION, WITH OVERALL PVC JACKET, SHIELDED, 100% INSULATION LEVEL, OKOGUARD, OKOSEAL, TYPE MV90.
- 4. RUN GROUND WIRES TO CABLE TRAY AND CONNECT TO 500KCMIL BARE COPPER CABLE IN TRAY OCATIONS 1'-0" OR MORE APART.

																		4.	AT SEP		
Ī	CARLE				CABLE S	CHEDULE	D	ESCRIPTI	IDN	LENGTH	CAR			Ţ	CABLE	SCHEDULE			DESCRIPTI	ΠN	LENGTI
	CABLE ND.	FUNCTION	٧	FR	□м	то	NO.&SIZE OF CABLE	INSUL. &	RATED VOLT.	APPROX	CAB NE].	FUNCTION		FROM		то	ND.&SIZE DF CABLE	INSUL. & COVER XHHW	RATE!	APPROX
-	121 REC	CT. #2 CONTRO	DL	RECTIFI	ER #2	DC SWGR UNIT #2	1-7/C #12				16	31 (COMED LINE #1 METE	TERING	AC SWGR UNIT #1	METER C	ABINET CT'S			600V	
1	122 REC	CT. #2 CONTRO	DL	RECTIFI	ER #2	DC SWGR UNIT #2	1-7/C #12	TC(VW-1/XHHW	6000	41	16	2 (COMED LINE #1 METE	TERING	AC SWGR UNIT #1	METER C	ABINET PT'S	3-1/C #12	2 XHHW	600V	34
1	123 REC	CT. #2 CONTRO	DL	RECTIFI	ER #2	DC SWGR UNIT #2	1-7/C #12	TC(VW-1/XHHW) 600V	41	16	3 (COMED LINE #2 METE	TERING	AC SWGR UNIT #9	METER C	ABINET CT'S	4-1/C #10	NHHX 0	600V	22
1		CT. #2 CONTRO		RECTIFI RECTIFI		RECT. TRANSFORMER #2 RECT. TRANSFORMER #2	1-9/C #12 1-7/C #12	TC(W-1/XHHW	0 600V	36 36	16	4 (COMED LINE #2 METE	TERING	AC SWGR UNIT #9	METER C	ABINET PT'S	3-1/C #12	2 XHHW	600V	22
		CT. #2 CONTRO		RECTIFI		AC SWGR UNIT #7	1-7/C #12				16	5 N	NOT USED								
1	126 REC	CT. #2 CONTRO	DL	DC SWGR	UNIT #2	AC SWGR UNIT #7	1-7/C #12	TC(WW-1/XHHW	6000	48	16	6 1	NOT USED					=	 		
-	127 REC	CT. #2 CONTRO	DL	RECTIFI	ER #2	AC SWGR UNIT #7	1-7/C #12	TC(VW-1/XHHW	6000	51	16	7 N	NOT USED							7	
	128 SUI	PV. & CONTROL	L	RECTIFI	ER #2	SCADA CABINET	1-7/C #12	TC(VW-1/XHHW	6000	71	16	8 5	SUPV. & CONTROL		AC SWGR UNIT #2	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	50
	129 SUI	PV. & CONTROL	L	RECTIFI	ER #2	SCADA CABINET	1-7/C #12	TC(VW-1/XHHW	6000	71	16	9 5	SUPV. & CONTROL		AC SWGR UNIT #5	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	40
	130 SUI	PV. & CONTROL	L	RECTIFI	ER #2	SCADA CABINET	1-7/C #12	TC(VW-1/XHHW	6000	71	17	0 5	SUPV. & CONTROL		AC SWGR UNIT #8	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	29
-	131 NO	T USED								7	17	′1 N	NOT USED						_		
	132 REC	CT. #2 CONTRO	DL	RECTIFI	ER #2	DC SWGR UNIT #2	1-7/C #12	TC(VW-1/XHHW	6000	60	17	2 5	SUPERVISE FDR 69		DC SWGR UNIT #1	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	29
	133 REC	CT. #2 AC POW	VER	PP2A EMER	GENCY BUS	RECTIFIER #2	1-2/C #10	TC(VW-1/XHHW	6000	63	17	3 5	SUPERVISE FDR 70		DC SWGR UNIT #3	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	33
	134 NO	T USED								0	17	4 5	SUPERVISE FDR 71		DC SWGR UNIT #5	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	38
1	135 NO	T USED								; ;	17	5 5	SUPERVISE FDR 72		DC SWGR UNIT #7	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	41
	136 NO	T USED								0	17	6 5	SUPERVISE FDR 503		DC SWGR UNIT #503	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	
	137 NO	T USED									17	7 5	SUPERVISE FDR 504		DC SWGR UNIT #504	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	
	138 NO	T USED									17	8 5	SUPERVISE FDR 505	S .	DC SWGR UNIT #505	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XIHW	600V	
	139 NO	T USED						2		0	17	9 5	SUPERVISE FDR 506		DC SWGR UNIT #506	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	
	140 NO	T USED									18	0 1	NOT USED								
	141 NO	T USED									18	31 N	NOT USED								
	142 NO	T USED								9 .	18	2 N	NOT USED								
1	143 NO	T USED									18	3 N	NOT USED								
	144 NO	T USED									18	4 5	SUPV. & CONTROL		DC SWGR AUX. UNIT #4	SCADA	CABINET	1-7/C #12	2 TC(VW-1/XHHW	600V	36
1	145 NO	T USED									18	5 N	NOT USED								
	146 NO	T USED									18	6 (GROUND DETECTION		DC SWGR AUX. UNIT #4	GROUND BUS	S (SEE NOTE 5)	1-2/C #10	XHHW	2KV	40
1	147 NO	T USED									18	7 N	NEGATIVE		DC SWGR AUX. UNIT #4	NEGAT	TIVE BUS	1-2/C #2	XHHW	2KV	45
1	148 NO	T USED									18	8 5	SCADA AC FEED		PP1A EMERGENCY BUS	SCADA	CABINET	1-2/C #10	TC(VW-1/XHHW	600V	55
3	149 NO	T USED	× ×								18	9 4	ANN. ALARM-BATT. CH	CHGR	BATTERY CHAR GER	DC SWGR UNIT	#4 (DEVICE 130)	1-2/C #10	TC(VW-1/XHHW	600V	40
1	150 NO	T USED			2						19	0 4	ANN. ALARM-ATS-1		AUTO TRANS. SW. ATS-1	DC SWGR UNIT	#4 (DEVICE 130)	1-2/C #10	TC(VW-1/XHHW	600V	50
ļ	151 NO	T USED									19)1 N	NOT USED								
	152 NO	T USED	11 E								19	2 4	ANN. ALARM-ATS-2		AUTO TRANS. SW. ATS-2	DC SWGR UNIT	#4 (DEVICE 130)	1-2/C #10	TC(VW-1/XHHW	600V	54
ļ	153 NO	T USED									19	3 1	NOT USED								
	154 NO	T USED						Š.			19	4 N	NOT USED					14 2			
1	155 NO	T USED									19	5 A	AIR COMPRESSOR FEE	EED	PP1 NORMAL BUS	AIR COMP.	RECEPTACLES	2-1/C #10 1-1/C #12		600V	154
	156 NO	T USED									19	6 V	WATER HEATER FEED)	PP2 NORMAL BUS	WATER HTF	R. CONTACTOR	4-1/C #12		600V	59
1	157 NO	T USED									19	7 V	WATER HEATER UNIT		WATER HTR. CONTACTOR	WATER	R HEATER	5-1/C #12	2 XHHW	600V	8
	158 NO	T USED									19	8 V	WATER HEATER CONTR	TROL	WATER HTR. CONTACTOR	TEMP. COI	NTROL PANEL	2-1/C #12	2 XHHW	600V	47
Ī	159 NO	T USED									19	9 1	NOT USED								
ŀ	160 NO	T USED									20	00 1	NOT USED								
											n Serve			L	of D						
		2	3	3	4	5	6	<u> </u>		7		8		9	10	11		12		13	
GN BY:																PF	RKINS	S + W			2

DRAWN BY:

CHECKED BY:

APPROVED BY:

CDOT/APPROVED BY:

ISSUE FOR BID

REVISIONS

01/27/2020

DATE

BG EM SM

DES. DRW. CHK. DCCO CDOT

		CARLES	CHEDULE	n	ESCRIPTION	INI	
CABLE NO.	FUNCTION	FROM			INSUL. &	20107	LENGTH APPROX (NOTE 2)
201	TEMP. CONT. PNL FEED	PP2A EMERGENCY BUS	TEMP. CONTROL PANEL	1-2/C #10	TC(VW-1/XHHW)	600V	84
202	NOT USED				8		
203	SUMP PUMP #1 FEED	PP1A EMERGENCY BUS	DPLX SMP PMP CONTROLLER	4-1/C #12	XHHW	600V	74
204	SUMP PUMP #1 MOTOR	DPLX SMP PMP CONTROLLER	SUMP PUMP #1 MOTOR	4-1/C #12	XHHW	600V	10
205	HIGH LEVEL SWITCHES	DPLX SMP PMP CONTROLLER	FLOAT SW. HIGH LEVEL	7-1/C #12	XHHW	600V	10
206	SUMP PUMP #2 FEED	PP2A EMERGENCY BUS	DPLX SMP PMP CONTROLLER	4-1/C #12	XHHW	600V	64
207	SUMP PUMP #2 MOTOR	DPLX SMP PMP CONTROLLER	SUMP PUMP #2 MOTOR	4-1/C #12	XHHW	600V	10
208	HIGH HIGH LEVEL SWITCHES	DPLX SMP PMP CONTROLLER	FLOAT SW. HI-HI LEVEL	1-7/C #12	XHHW	600V	10
209	HIGH WATER ALARM	DPLX SMP PMP CONTROLLER	TEMP CONTROL PANEL	1-3/C #12	TC(VW-1/XHHW)	600V	48
210	LOW LEVEL SWITCHES	DPLX SMP PMP CONTROLLER	FLOAT SW. LOW LEVEL	7-1/C #12	XHHW	600V	10
211	SMP PMP DUPLEX CONTROL	DPLX SMP PMP CONTROLLER	SMP PMP MECH ALTERNATOR	4-1/C #12	XHHW	600V	10
212	NOT USED			9 990			
213	NOT USED						
214	NOT USED						
215	NOT USED						
216	SUPV. & CONTROL	RECTIFER #1	DC SWGR #4	1-7/C #12	TC(VW-1/YHHW)	600V	40
217	LIGHTING PANEL LP-1 FEED		LIGHTING PANEL LP-1	4-1/C #2	WIN 92 W	600V	5
218	LIGHTING PANEL LP-2 FEED		LIGHTING PANEL LP-2	1-1/C #4 4-1/C #2	7	600V	5
219	NOT USED	112A EMERGENCI BOS	LIGITING FANLL LE-Z	1-1/C #4	XUUM	0000	-
220	NOT USED				70 71		
221	DRAIN EQUIP. AC FEED	PP1A EMERGENCY BUS	3-GANG SWITCH BOX	1 2/0 #10	TOAM 4 MILIMA	6001	56
222	COMED DRAIN FEED	3-GANG SW. BOX (SW.#1)	SOLID STATE CONT. CAB	1-2/C #10 1-2/C #12	2021 (S) (S)	3: 7	6
223	GAS CO. DRAIN FEED	3-GANG SW. BOX (SW.#1)					6
				1-2/C #12			
224	SBC DRAIN FEED	3-GANG SW. BOX (SW.#3)	SBC DRAIN EQUIP.	1-2/C #12		600V	30.000
225	STATION DRAIN EQUIP.	DRAIN BUS	NEGATIVE BUS	1-1500KCM		2KV	60
226	COMED DRAIN	DRAIN BUS	COMED DRAIN CONT.	1-750KCM	XLPE	600V	3
227	COMED DRAIN	COMED DRAIN CONT.	COMED FUSE CAB.	1-750KCM	XLPE	600V	8
228	COMED DRAIN	COMED FUSE CAB.	COMED MANHOLE	1-750KCM	XLPE	600V	
229	COMED DRAIN	DRAIN BUS	BY-PASS KNIFE SW.	1-750KCM	XLPE	600V	8
230	COMED DRAIN	BY-PASS KNIFE SW.	DRAIN CABLE 228	1-750KCM	XLPE	600V	
231	COMED DRAIN	SOLID STATE CONT. CAB.	COMED DRAIN CONT.	3-1/C #10	XHHW	600V	5
232	SBC DRAIN	DRAIN BUS	SBC DRAIN SWITCH	1-750KCM	XLPE	600V	
233	SBC DRAIN	SBC DRAIN SWITCH	SBC MANHOLE	1-750KCM	XLPE	600V	
234	COMED DRAIN	SOLID STATE CONT. CAB.	COMED FUSE CAB.	3-1/C #10	XHHW	600V	5
235	AC SWGR AC FEED	PP1A EMERGENCY BUS	AC SWGR UNIT #5	1-2/C #12	TC(VW-1/XHHW)	600V	42
236	DC SWGR AC FEED	PP2A EMERGENCY BUS	DC SWGR AUX. UNIT #4	1-2/C #12	TC(VW-1/XHHW)	600V	50
237	NOT USED						
238	NOT USED						
239	O.H. DOOR #2 AC FEED	PP2A EMERGENCY BUS	O.H. DOOR #2 CONT. PNL.	1-2/C #10	TC(VW-1/XHHW)	600V	81
240	FILTER MEDIA AC FEED	PP2A EMERGENCY BUS	INLET DAMPER TERM. BOX	1-2/C #12	TC(VW-1/XHHW)	600V	48
4	69 (1 99 1)	**************************************	arana ar		20000000		,

FACET ENGINEERING

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PERKINS+WILL OF TRANSPORTATION

DIVISION OF ENGINEERING

15

16

CDOT PROJECT D-7-135

154 N DAMEN AVE - DAMEN GREEN LINE STATION DRAWING NO. WASHINGTON BLVD SUBSTATION **TPE60-12** CABLE SCHEDULE FROM CA.121 TO CA.240

18

DATE: 11/01/2019

19

20

SPEC. NO.

REVISION NO.

17

NOTES:

- 1. CONTRACTOR SHALL FILL IN CABLE CUTTING LENGTHS AFTER INSTALLATION.
- 2. VW-1 INDICATES FLAME RETARDANT CABLE.
- 3. 15KV, EPR INSULATION, WITH OVERALL PVC JACKET, SHIELDED, 100% INSULATION LEVEL, OKOGUARD, OKOSEAL, TYPE MV90.
- 4. RUN GROUND WIRES TO CABLE TRAY AND CONNECT TO 500KCMIL BARE COPPER CABLE IN TRAY AT SEPARATE LOCATIONS 1'-0" OR MORE APART.

LE FUNCT				SCHEDULE		DESCRIPTI	_	and the same of th	-	-		CHEDULE		DESCRIPTI		And in case of
FUNCT	ION	FROM		то	NO.&SIZE OF CABLE	INSUL. &	RATEI VOLT.	APPROX (NOTE 2)	CABLE ND.	FUNCTION	FROM	то	NO.&SIZE OF CABLE	INSUL. & COVER	RATE: VOLT	LE AP (NI
1 STATION SECUR	ITY	TEMP. CONTROL PA	ANEL	DOOR SW. #1					281	SUPERVISORY (CURRENT)	DC SWGR UNIT #7 (FDR 72)	SCADA CABINET	1 0 /0 1140	DVC /DVC	1	
2 STATION SECUR	ITY	TEMP. CONTROL PA	ANEL	DOOR SW. #2	2-1/C #12	XHHW	600V	67	282	SUPERVISORY	DC SWGR AUX. UNIT #4	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	\vdash
3 STATION SECUR	elTY.	TEMP. CONTROL PA	ANEL	DOOR SW. #3	2-1/C #12	XHHW	600V	86	283	SUPERVISORY (CURRENT)	DC SWGR UNIT (FDR 503)	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	t
4 NOT USED									284	SUPERVISORY (VOLTAGE)	DC SWGR UNIT #503	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	
5 NOT USED									285	SUPERVISORY (CURRENT)	DC SWGR UNIT (FDR 504)	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	
6 CONTROL O.H.	DOOR#2	O.H. DOOR#2 CONTRO	L PNL.	O.H. DOOR#2 OPERATOR	1-2/C #12	TC(VW-1/XHHW)) 600V	9	286	SUPERVISORY (VOLTAGE)	DC SWGR UNIT #504	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	
7 NOT USED									287	SUPERVISORY (CURRENT)	DC SWGR UNIT (FDR 505	SCADA CABINET	1-2/C #12	PVC/PVC-	600	4
8 TEMP. CONTRO	<u></u>	TEMP. CONTROL PA	ANEL	STAGE 1 THERMOSTAT T1	2-1/C #12	XHHW	600V	5	288	SUPERVISORY (VOLTAGE)	DC SWGR UNIT #505	SCADA CABINET	TWSH & DRAM 1-2/C #12	SHLD(VW-1) PVC/PVC-	6000	+
5 3									289	SUPERVISORY (CURRENT)	DC SWGR UNIT (FDR 506)	3	1-2/C #12	SHLD(WW-1) PVC/PVC-	0000	
					100 000								TWSH & DRAIN	SHLD(VW-1)	600V	1
											DO SWOK CHII WOOD	SOADA CADINEI	TWSH & DRAIN	SHLD(VW-1)	600V	
	9															
	- Annie - Anni	**************************************											+		=	#
	CONTROL								3		7 5			2.		
4 INLET DAMPER	CONTROL				0 2et 079 V										\vdash	
5 INLET DAMPER	CONTROL	INLET DAMPER TERM	I. BOX	DAMP. MOT. M3 END SW. E3	6-1/C #12	XHHW	600V	28	295	NOT USED			$\overline{+}$		\vdash	Ŧ
6 FILTER DRIVE	9. 9.	INLET DAMPER TERM	I. BOX	FILTER DRIVE	4-1/C #12	XHHW	600V	5	296	NOT USED					=	1
7 BACKDRAFT DA	MP. CONT.	TEMP. CONTROL PA	ANEL	BACKDRAFT DAMP, MOT. M2	2-1/C #12	XHHW	600V	84	297	SUPERVISORY (STATUS)	DC SWGR UNIT #1 (FDR 69)	SCADA CABINET	1-7/C #12	TC(VW-1/XHHW	600V	1
8 BACKDRAFT DA	MP. CONT.	TEMP. CONTROL PA	ANEL	BACKDRAFT DAMP, MOT, M4	2-1/C #12	XHHW	600V	64	298	SUPERVISORY (STATUS)	DC SWGR UNIT #3 (FDR 70)	SCADA CABINET	1-7/C #12	TC(VW-1/XHHW	600V	#
9 STATION CONTR	OL	TEMP. CONTROL PA	ANEL	ATTEND-UNATTEND SW.	10-1/C #12	XHHW	600V	5	299	SUPERVISORY (STATUS)	DC SWGR UNIT #5 (FDR 71)	SCADA CABINET	1-7/C #12	TC(VW-1/XHHW	600V	‡
O STATION CONTR	OL	TEMP. CONTROL PA	ANEL	SCADA CABINET	1-7/C #12	TC(VW-1/XHHW)	600V	50	300	SUPERVISORY (STATUS)	DC SWGR UNIT #7 (FDR 72)	SCADA CABINET	1-7/C #12	TC(W-1/XHHW	600V	‡
1 SUMP PUMP A	_ARM	SUMP PUMP CONTR	OLLER	DX SWGR AUX. UNIT #4	1-7/C #10	TC(VW-1/XHHW)	600V	40	301	NOT USED				10 0		+
2 STA. ANN. ALM-S	TA.TEMP. ATTD.	TEMP. CONTROL PA	ANEL	DC SWGR AUX. UNIT #4	1-7/C #12	TC(VW-1/XHHW)	600V	40	302	NOT USED						\pm
3 STA. ANN. ALM-F	D & AF	TEMP. CONTROL PA	ANEL	DC SWGR AUX. UNIT #4	1-7/C #12	TC(VW-1/XHHW)) 600V	40	303	NOT USED			\pm			\pm
4 STA. ANN. ALM-H	I STA. TEMP.	TEMP. CONTROL PA	ANEL	HI-TEMP THERM. T5	2-1/C #12	XHHW	600V	5	304	NOT USED						+
5 SMOKE DETECT	ION	TEMP. CONTROL PA	ANEL	SMOKE DETECTOR #1	1-9/C #12	TC(VW-1/XHHW) 600V	61	305	NOT USED					\vdash	Ŧ
									306	NOT USED				10	\vdash	Ŧ
9									3				1		_	
			****								DC SWGR ALIX LINIT #4	SCADA CARINET	1-7/C #12	TC/AV_1 /YHHW) 600V	‡
5) A 2. (3)	NIEKEOOK	TEIMI : CONTROL 17	ANLL	LW. LIGHTING CONTACTOR	1 1/0 1/12	To(the ty Allith)	, 0001	10					10- 10	N 28		
													200 000			
			".		1 0/0 //10	DVO /DVO										
7 d				SCADA CABINET	TWSH & DRAIN	SHLD(VW-1)	600V	37	8		DC SWGR AUX. UNII #4	SCADA CABINET	1-//C #12	TC(WV-1/XHHW	600V	
		DC SWGR UNIT #2 (RE	CT. #2)	SCADA CABINET	1-2/C #12 TWSH & DRAIN	PVC/PVC- SHLD(VW-1)	600V	28							\pm	\pm
3 NOT USED									313	NOT USED						- 2
4 SUPERVISORY (VOLTAGE)	DC SWGR UNIT #1 (FI	DR 69)	SCADA CABINET	TWSH & DRAIN	SHID(W-1)	0000	25	314	NOT USED					\vdash	
5 SUPERVISORY (CURRENT)	DC SWGR UNIT #1 (FI	DR 69)	SCADA CABINET	1-2/C #12 TWSH & DRAIN	PVC/PVC- SHLD(VW-1)	600V	25	315	NOT USED					\vdash	Ŧ
6 SUPERVISORY (VOLTAGE)	DC SWGR UNIT #3 (FI	DR 70)	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	31	316	NOT USED						-
7 SUPERVISORY	CURRENT)	DC SWGR UNIT #3 (FI	DR 70)	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	31	317	SMOKE DETECTION	SMOKE DETECTOR #3	EOL RESISTOR UNIT	1-2/C #12	TC(VW-1/XHHW	600V	#
8 SUPERVISORY	VOLTAGE)	DC SWGR UNIT #5 (FI	DR 71)	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	35	318	SMOKE DETECTION	FIRE ALARM CONT. PNL.	SMOKE DETECTOR #1	1-2/C #12	TC(VW-1/XHHW	600V	+
9 SUPERVISORY (CURRENT)	DC SWGR UNIT #5 (FI	DR 71)	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	75	319	NOT USED			#		二	‡
0 SUPERVISORY (VOLTAGE)	DC SWGR UNIT #7 (FI	DR 72)	SCADA CABINET	1-2/C #12	PVC/PVC-	600V	39	320	NOT USED			+			+
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FACET ENGINEERING

PERKINS+WILL The Wrigley Building 410 North Michigan Ave. Chlcago, IL 60611 t 312.755.0770 f 312.755.0775 www.perklnswll.com

OF TRANSPORTATION DIVISION OF ENGINEERING

154 N DAMEN AVE - DAMEN GREEN LINE STATION DRAWING NO. WASHINGTON BLVD SUBSTATION **TPE60-13** CABLE SCHEDULE FROM CA.241 TO CA.360

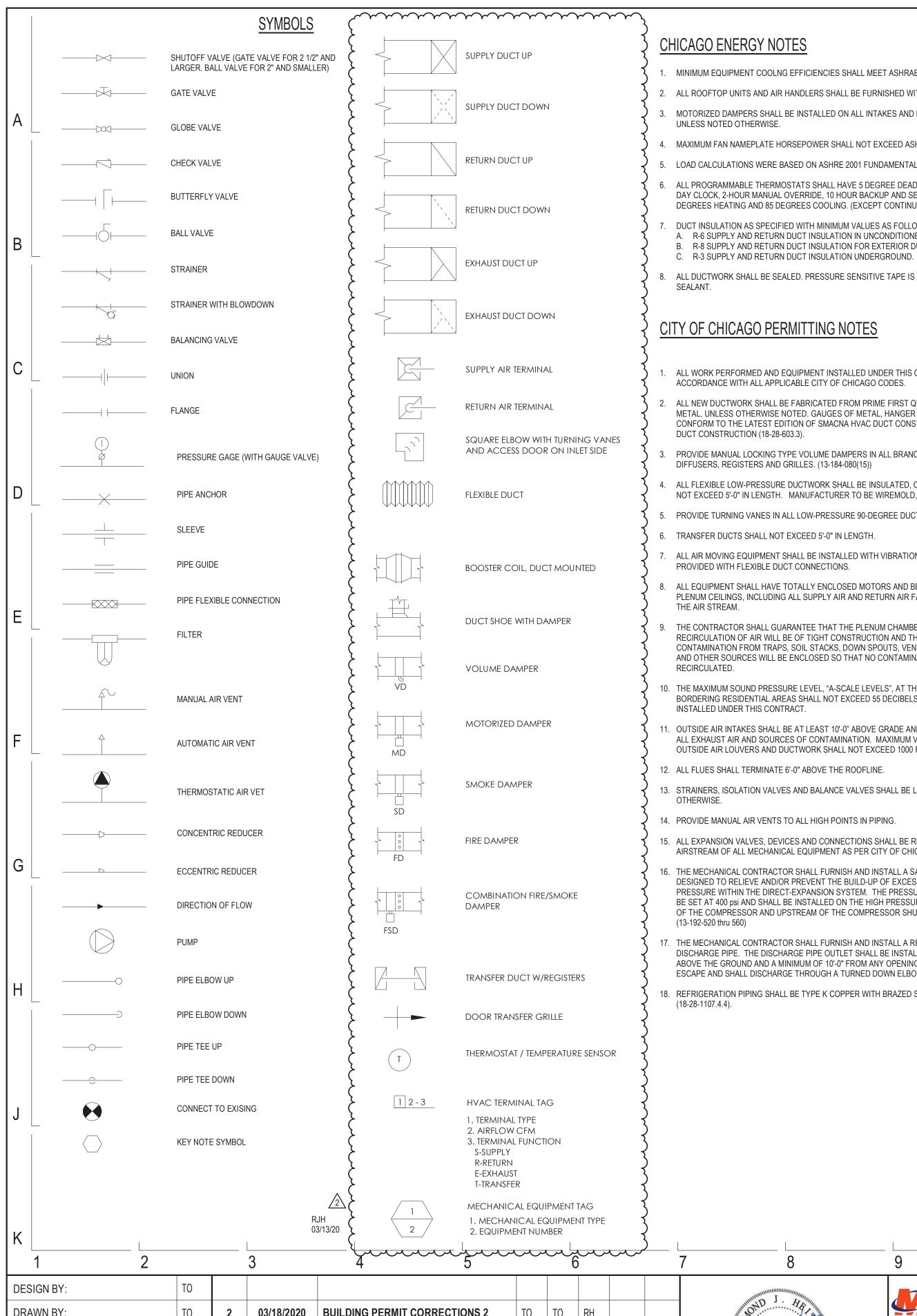
DATE: 11/01/2019

CDOT PROJECT D-7-135

SPEC. NO.

REVISION NO.

	POINT ASSIGNMENT CHART CONTROL POINTS	POINT ASSIGNMENT CHART STATUS POINTS	POINT ASSIGNMENT CHART ANALOG POINTS	
	STATION ASSY NO: 40-005073-002 RTU TYPE: QUICS 4150 COMM LINE 13 INTERFACE PANEL: CNTRL OUT ENG: PM STATION ADDRESS 25 LOCATION	STATION ASSY NO: 40-005073-002 RTU TYPE: QUICS 4150 COMM LINE 13 INTERFACE PANEL: 6SIP1 ENG: PM STATION ADDRESS 25 LOCATION: B7 PANEL ADDR: 4	STATION ASSY NO: 40-005073-002 RTU TYPE: QUICS 4150 COMM LINE 13 INTERFACE PANEL: 6AIP1 ENG: PM STATION ADDRESS 25 LOCATION	
	> A/TB4 (PANEL & POINT FUNCTION* DESCRIPTION STA POINT NO, C, NC RLY. LOC) ADDRESS NAME	> A/TB13 POINT INPUT FUNCTION* DESCRIPTION STA POINT NAME NAME	> A/TB29 POINT INPUT ENGUNIT DESCRIPTION STA POINT NAME NAME	
	1 2 D4/K1 24 A SECTION 503 WASH	1, 2 0 DRY CONT STATUS WASH 3, 4 1 DRY CONT STATUS	1, 2 16 0-1 MA WASH 3, 4 17 0-1 MA	
	5 6 K3 25 A SECTION 504 7 8 K4 B SECTION 504	5, 6 2 DRY CONT STATUS	5, 6 18 0-1 MA 7, 8 19 0-1 MA 9, 10 20 0-1 MA 0-1000VDC SECTION 30 DC VOLTS S30DV	NOTES.
	11 12 K6 B SECTION 505 13 14 K7 27 A SECTION 506	11, 12 5 DRY CONT STATUS SECTION 30 A1 13, 14 6 DRY CONT STATUS SECTION 31 A S31	11, 12 21 0-1 MA 0-16KADC SECTION 30 DC AMPS S30DA 13, 14 22 0-1 MA 0-1000VDC SECTION 31 DC VOLTS S31DV	NOTES:
	15 16 K8 B	15, 16 7 DRY CONT STATUS SECTION 31 A1 > A/TB12	15, 16 23 0-1 MA 0-16KADC SECTION 31 DC AMPS S31DA > A/TB28 SECTION 503	 SEE DWG ET01-01 FOR GENERA NOTES, SYMBOLS, ABBREVIATIONS
	> A/TB3 1 2 K9 28 A	1, 2 8 DRY CONT STATUS SECTION 503 A S503 3, 4 9 DRY CONT STATUS SECTION 503 A1 S504 5, 6 10 DRY CONT STATUS SECTION 504 A S504	1, 2 24 0-1 MA SECTION 503 3, 4 25 0-1 MA SECTION 503 5, 6 26 0-1 MA SECTION 504	DEVICE LIST.
	3 4 K10 B 5 6 K11 29 A	7, 8 11 DRY CONT STATUS SECTION 504 A1 9, 10 12 DRY CONT STATUS SECTION 505 A S505	7, 8 27 0-1 MA SECTION 504 9, 10 28 0-1 MA SECTION 505	
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	11 12 K14 B 13 14 K15 31 A DLC-3 HEAT TAPES ON WASH DL3CON 15 16 K16 B OFF	15, 16 15 DRY CONT STATUS SECTION 506 A1 NOTES: STATUS KEYING VOLTAGE IS 48 VOLTS DC.	15, 16 31 0-1 MA SECTION 506 NOTES: THE INPUT ACCEPT DIFFERENTIAL SIGNALS, MAXIMUM +/-5 VOLTS.	
	NOTES: RELAYS ARE POTTER & BRUMFIELD PRD11DJ0 24VDC (MOMENTARY), OR EQUAL.	TBs ODD-NUMBERED TERMINALS FROM 1 TO 15 ARE CONNECTED TO STATUS KEYING VOLTAGES COMMON (+48 VOLTS DC).	SIGNALS INPUT: ODD NUMBERED TERMINALS FROM 1 TO 15 IS POSITIVE (+), EVEN NUMBERED TERMINALS FROM 2 TO 16 IS NEGATIVE (-).	
	CONTACT RATING IS 12 AMPS RESISTIVE @ 125VDC OR 240VAC	* STATUS, ALARM, ACCUMULATORS, PDM, MAKE AN ENTRY IN THIS COLUMN.	* STATUS, ALARM, ACCUMULATORS, PDM, MAKE AN ENTRY IN THIS COLUMN.	
	* A = CLOSE, RUN, ON B = OPEN, TRIP, STOP, OFF C = OFF/ON (LATCH) NE = NOT EQUIPPED	DESCRIPTION IS 24 CHARACTERS MAX.	DESCRIPTION IS 24 CHARACTERS MAX.	
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DES. DRW. CHK. DCCO CDOT

CHICAGO ENERGY NOTES

- . MINIMUM EQUIPMENT COOLNG EFFICIENCIES SHALL MEET ASHRAE 90.1-2013.
- 2. ALL ROOFTOP UNITS AND AIR HANDLERS SHALL BE FURNISHED WITH ECONOMIZERS.
- . MOTORIZED DAMPERS SHALL BE INSTALLED ON ALL INTAKES AND EXHAUST OPENINGS UNLESS NOTED OTHERWISE.
- 4. MAXIMUM FAN NAMEPLATE HORSEPOWER SHALL NOT EXCEED ASHRAE 90.1-2013.
- 5. LOAD CALCULATIONS WERE BASED ON ASHRE 2001 FUNDAMENTALS.
- 6. ALL PROGRAMMABLE THERMOSTATS SHALL HAVE 5 DEGREE DEADBAND AND SHALL HAVE 7-DAY CLOCK, 2-HOUR MANUAL OVERRIDE, 10 HOUR BACKUP AND SETBACK CAPABLE OF 55 DEGREES HEATING AND 85 DEGREES COOLING. (EXCEPT CONTINUOUS OPERATING ZONES)
- 7. DUCT INSULATION AS SPECIFIED WITH MINIMUM VALUES AS FOLLOWS: A. R-6 SUPPLY AND RETURN DUCT INSULATION IN UNCONDITIONED SPACES. B. R-8 SUPPLY AND RETURN DUCT INSULATION FOR EXTERIOR DUCTS.
- 8. ALL DUCTWORK SHALL BE SEALED. PRESSURE SENSITIVE TAPE IS NOT USED AS THE PRIMARY

CITY OF CHICAGO PERMITTING NOTES

- ALL WORK PERFORMED AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY OF CHICAGO CODES.
- . ALL NEW DUCTWORK SHALL BE FABRICATED FROM PRIME FIRST QUALITY GALVANIZED SHEET METAL, UNLESS OTHERWISE NOTED. GAUGES OF METAL, HANGER SPACING, ETC. SHALL CONFORM TO THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR DUCT CONSTRUCTION (18-28-603.3).
- . PROVIDE MANUAL LOCKING TYPE VOLUME DAMPERS IN ALL BRANCH DUCTWORK TO AIR DIFFUSERS, REGISTERS AND GRILLES. (13-184-080(15))
- 4. ALL FLEXIBLE LOW-PRESSURE DUCTWORK SHALL BE INSULATED, CHICAGO APPROVED AND NOT EXCEED 5'-0" IN LENGTH. MANUFACTURER TO BE WIREMOLD, TYPE WK UL-181, CLASS 1.
- PROVIDE TURNING VANES IN ALL LOW-PRESSURE 90-DEGREE DUCT TURNS.
- 6. TRANSFER DUCTS SHALL NOT EXCEED 5'-0" IN LENGTH.
- 7. ALL AIR MOVING EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATORS AND PROVIDED WITH FLEXIBLE DUCT CONNECTIONS.
- 8. ALL EQUIPMENT SHALL HAVE TOTALLY ENCLOSED MOTORS AND BE RATED TO OPERATE IN PLENUM CEILINGS, INCLUDING ALL SUPPLY AIR AND RETURN AIR FAN MOTORS EXPOSED TO
- O. THE CONTRACTOR SHALL GUARANTEE THAT THE PLENUM CHAMBER USED FOR RECIRCULATION OF AIR WILL BE OF TIGHT CONSTRUCTION AND THAT ALL SOURCES OF AIR CONTAMINATION FROM TRAPS, SOIL STACKS, DOWN SPOUTS, VENTS, EXHAUST DISCHARGES AND OTHER SOURCES WILL BE ENCLOSED SO THAT NO CONTAMINATED AIR WILL BE
- 10. THE MAXIMUM SOUND PRESSURE LEVEL, "A-SCALE LEVELS", AT THE PROPERTY LINE BORDERING RESIDENTIAL AREAS SHALL NOT EXCEED 55 DECIBELS (dB) FOR HVAC EQUIPMENT INSTALLED UNDER THIS CONTRACT.
- 11. OUTSIDE AIR INTAKES SHALL BE AT LEAST 10'-0" ABOVE GRADE AND A MINIMUM OF 15'-0" FROM ALL EXHAUST AIR AND SOURCES OF CONTAMINATION. MAXIMUM VELOCITY THROUGH OUTSIDE AIR LOUVERS AND DUCTWORK SHALL NOT EXCEED 1000 FPM.
- 12. ALL FLUES SHALL TERMINATE 6'-0" ABOVE THE ROOFLINE.
- 13. STRAINERS, ISOLATION VALVES AND BALANCE VALVES SHALL BE LINE SIZE UNLESS NOTED
- 14. PROVIDE MANUAL AIR VENTS TO ALL HIGH POINTS IN PIPING.
- 15. ALL EXPANSION VALVES, DEVICES AND CONNECTIONS SHALL BE REMOVED FROM THE AIRSTREAM OF ALL MECHANICAL EQUIPMENT AS PER CITY OF CHICAGO CODE. (13-192-380)
- 16. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A SAFETY RELIEF VALVE DESIGNED TO RELIEVE AND/OR PREVENT THE BUILD-UP OF EXCESSIVE REFRIGERANT PRESSURE WITHIN THE DIRECT-EXPANSION SYSTEM. THE PRESSURE RELIEF DEVICE SHALL BE SET AT 400 psi AND SHALL BE INSTALLED ON THE HIGH PRESSURE SIDE AT THE DISCHARGE OF THE COMPRESSOR AND UPSTREAM OF THE COMPRESSOR SHUT-OFF (STOP) VALVE. (13-192-520 thru 560)
- 17. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL A REFRIGERANT-RELIEF DISCHARGE PIPE. THE DISCHARGE PIPE OUTLET SHALL BE INSTALLED A MINIMUM OF 12'-0" ABOVE THE GROUND AND A MINIMUM OF 10'-0" FROM ANY OPENING, AND 20'-0" FROM ANY FIRE ESCAPE AND SHALL DISCHARGE THROUGH A TURNED DOWN ELBOW. (18-28-1106.13).
- 18. REFRIGERATION PIPING SHALL BE TYPE K COPPER WITH BRAZED SOCKET TYPE FITTINGS. (18-28-1107.4.4).

GENERAL NOTES

- 1. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT. GENERAL CHARACTER AND LOCATION OF WORK INCLUDED. WORK INDICATED, BUT HAVING MINOR DETAILS OMITTED, SHALL BE PROVIDED INCLUDING THESE DETAILS AT NO ADDITIONAL COST TO OWNER. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
- 2. ALL PERMITS, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT, PARTITIONS, WALLS AND GENERAL CONSTRUCTION.
- 4. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY FOR THE WORK, COMPLETE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
- 5. CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS WITH REFLECTED CEILING
- 6. CONTRACTOR SHALL IDENTIFY AND INCLUDE ALL ITEMS NECESSARY FOR PROPER
- OPERATION OF INDICATED MECHANICAL HVAC SYSTEMS. 7. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES.
- 8. CONTRACTOR SHALL RELOCATE ANY MINOR INTERFERENCES, INCLUDING CONDUIT, HANGERS, ETC., AT NO ADDITIONAL COST TO OWNER.
- 9. VOLTAGE FOR ALL EQUIPMENT IS TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
- 10. ALL WORK SHALL COMPLY OR EXCEED ALL APPLICABLE CODES.
- 11. ANY CUTTING AND PATCHING THRU RATED WALLS SHALL BE DONE AND COMPLETED AS REQUIRED TO COMPLY WITH U.L. PENETRATION RATING REQUIREMENTS.
- 12. PROVIDE ALL CUTTING AND PATCHING OF BUILDING MATERIALS AS REQUIRED FOR INSTALLATION OF THIS WORK.

ABBREVIATIONS

- FCU FAN COIL UNIT
- STAINLESS STEEL - EXHAUST FAN 14. PROVIDE SPRING TYPE VIBRATION ISOLATORS FOR ALL SUSPENDED MECHANICAL
 - ELECTRIC UNIT HEATER - INFRARED HEATER
 - ELECTRIC WALL HEATER - AIR CONDITIONER
 - CONDENSING UNIT - REFRIGERANT LIQUID
 - REFRIGERANT SUCTION

SPEC. NO.

DRAWING NO.

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18. SIZE OF BRANCH DUCT TAKE-OFF TO DIFFUSER SHALL BE EQUAL TO NECK SIZE OF THE DIFFUSER UNLESS NOTED OTHERWISE.

17. ALL DUCT TURNS, ELBOWS, ETC., SHALL BE INSTALLED WITH TURNING VANES OR

13. PROVIDE ALL HOLES AND SLEEVES FOR INSTALLATION OF MECHANICAL WORK.

15. VENTILATION CONTRACTOR SHALL PROVIDE ALL NECESSARY RISE AND DROPS IN

- 19. FLEXIBLE DUCT CONNECTIONS SHALL NOT EXCEED 5'-0" IN LENGTH. CONNECTIONS IN AREAS WITHOUT SUSPENDED CEILINGS SHALL BE SHEET METAL. PROVIDE SMART ELBOW WHERE BEND CAN NOT BE PROVIDED.
- 20. ALL TRANSFER AND EXHAUST FAN DUCTS SHALL HAVE SOUND LINING OF 1" THICKNESS. TRANSFER DUCTS SHALL NOT EXCEED 5'-0" IN LENGTH.
- 21. PROVIDE SHEAVE CHANGES AS REQUIRED TO MEET FINAL TEST AND BALANCE CONDITIONS AND OPERATE SYSTEMS IN A QUIET AND EFFICIENT MANNER.
- 22. SMOKE DETECTORS SHALL BE INSTALLED IN SUPPLY OR RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM TIED TO THE FIRE ALARM SYSTEM.
- 23. INSULATE ALL CONDENSATE PIPING. SEE SPEC.

DUCTWORK TO SATISFY FIELD CONDITIONS.

SHALL BE MINIMUM 1-1/2 RADIUS ELBOW.

16. PROVIDE VOLUME DAMPERS ON ALL BRANCH TAKE-OFFS.

- 24. ALL CONDENSATE FROM HVAC EQUIPMENT SHALL BE PIPED TO TO THE NEAREST
- 25. ALL DUCT DIMENSIONS INDICATED ARE FREE AREA DIMENSIONS.

			CITY OF CHIC	AGO R	EFRIGER/	ATION SCH	HEDULE			
Ī				NO.		REFRIG	ERANT	SELF	AIR	WATER
	TAG	SERVICE	LOCATION	COMP.	COMP/TON	QUANT (LBS)	TYPE	CONTAINED	COOLED	COOLED
Ī	AC-2	CAK 112	CAK 112 ROOF	1	1	1.1	R-410A	•	•	
	AC-1	SUPERVISOR'S BOOTH	SUPERVISER STATION ROOF	1	1	1.1	R-410A	•	•	
	AC-3	ELEV MACH RM2	ELEV MACH RM2	1	1	1.1	R-410A	•	•	
RJH 11/27-20	CU-1	FCU'S	SOUTH TOWER	1	8	R410A	R-410A		•	

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INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM OF ANY INTERVENING VALVES.

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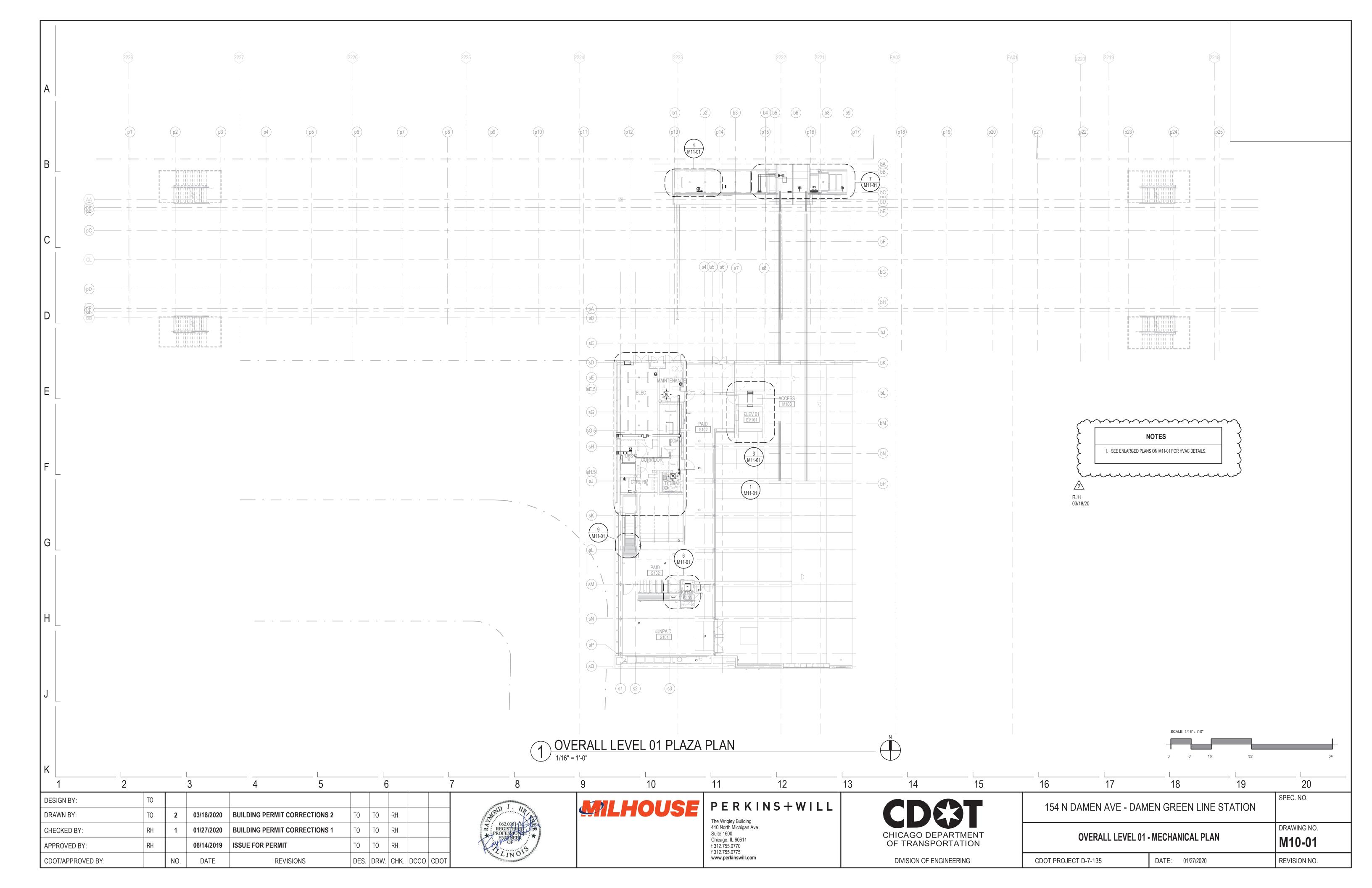
- REMOVE EXPANSION VALVES, DEVICES, & CONNECTIONS FROM AIR STREAM.
- REFRIGERATION PIPING TO BE TYPE "K" OR ACR.
- ALL CONNECTIONS AND DEVICES TO BE BRAZED.

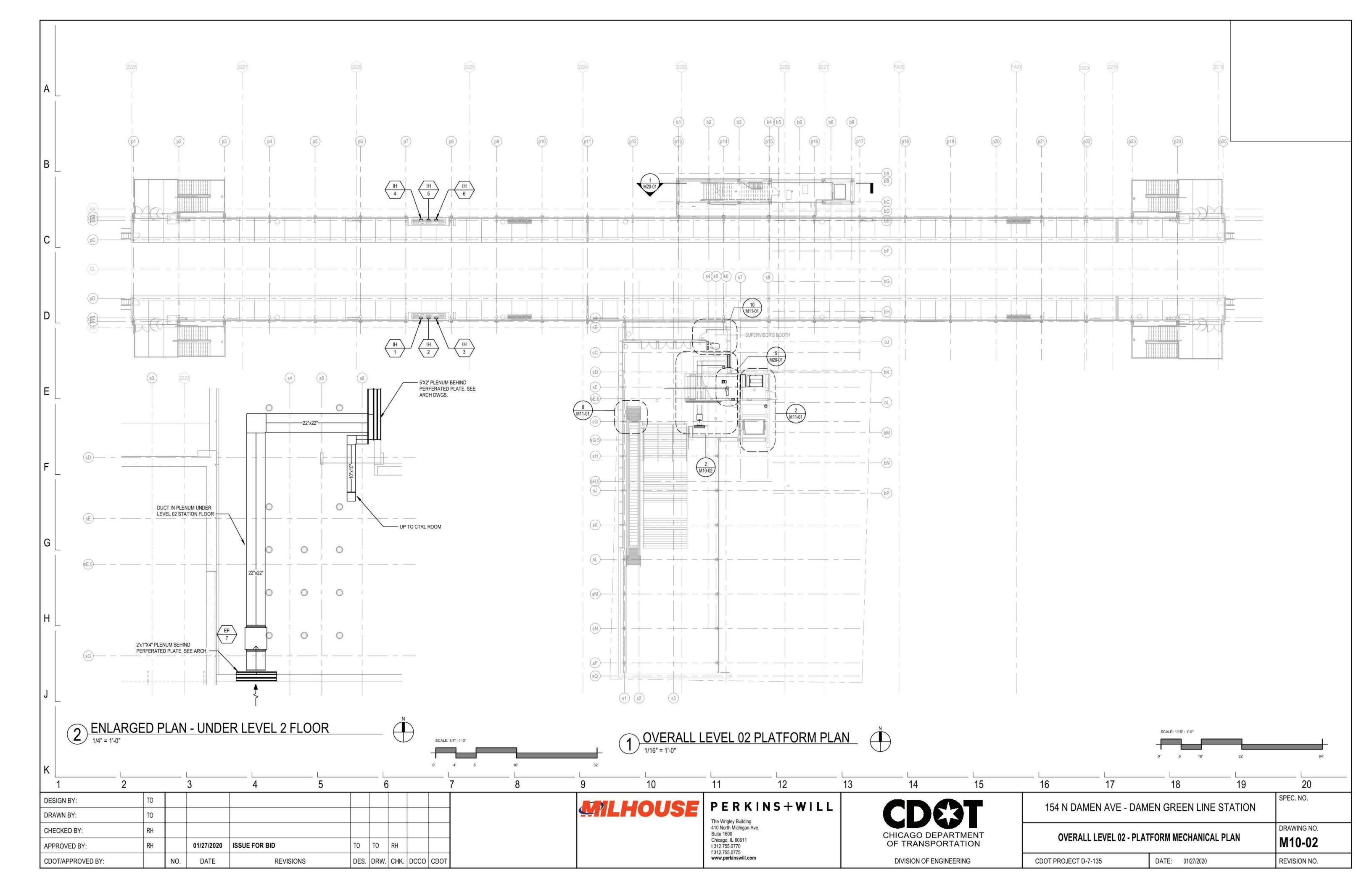
				ORDINANCE RE	QUIREMENTS					ACTUAL P	ROVIDED	REMARKS			
50011710	200111111	NET FLOOR AREA		NATURAL LIC	GHT & VENT	MECHANI	CAL VENT	NATURAL LI	GHT & VENT	MECHANI	CAL VENT	EQUIPMEN	IT SERVING		
ROOM TAG	ROOM NAME	(SQFT)	ROOM PURPOSE PER TABLES	GLASS (SQFT)	VENT (SQFT)	SUP. (CFM)	EXH. (CFM)	GLASS (SQFT)	VENT (SQFT)	SUP. (CFM)	EXH. (CFM)	SUP.	EXH.		
S101	UNPAID	1022	CORRIDOR	1450	58	NR	NR	1450	58		4500		EF-7		
S102	PAID	1386	CORRIDOR	2434	98	NR	NR	2434	98		24000		EF-8		
S103	SURGE	109	CORRIDOR			NR	NR								
M017	TOILET	51	TOILET			0	102				110		TEF-1		
M004	ELECTRICAL	420	STORAGE INACTIVE	34	17	NR	NR	0	0		5,000		EF-4/EF-5	EXHAUST ONLY	
M002	COMMUNICATIONS	144	STORAGE INACTIVE	12	6	NR	NR	0	0			FCU-3	N/A	COOLING ONLY	
M006	UPS	84	STORAGE INACTIVE	7	3	NR	NR	0	0			FCU-2	EF-1	COOLING ONLY	
M003	MAINTENANCE	112	STORAGE INACTIVE	9	4	NR	NR	0	0		200		TEF-1	EXHAUST ONLY	
M008	CONTROL ROOM	98	STORAGE INACTIVE	8	4	NR	NR	0	0			FCU-1	N/A	COOLING ONLY	
S003	CAK	32	OFFICE	120	5	NR	NR	120	8			AC-1	N/A	COOLING ONLY	
	SUPERVISOR KIOSK	32	OFFICE	120	5	NR	NR	120	8			AC-2	NA	COOLING ONLY	
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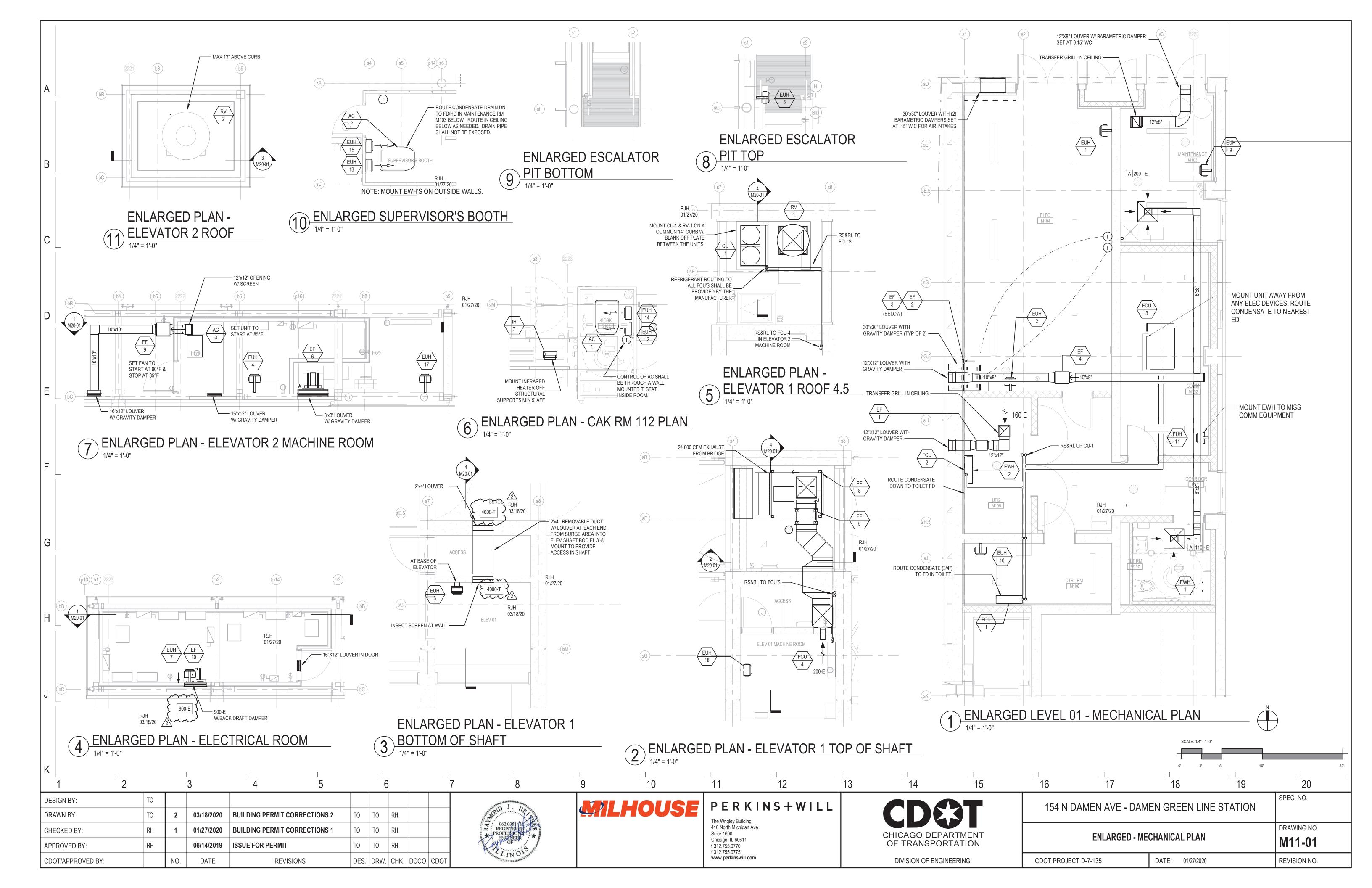
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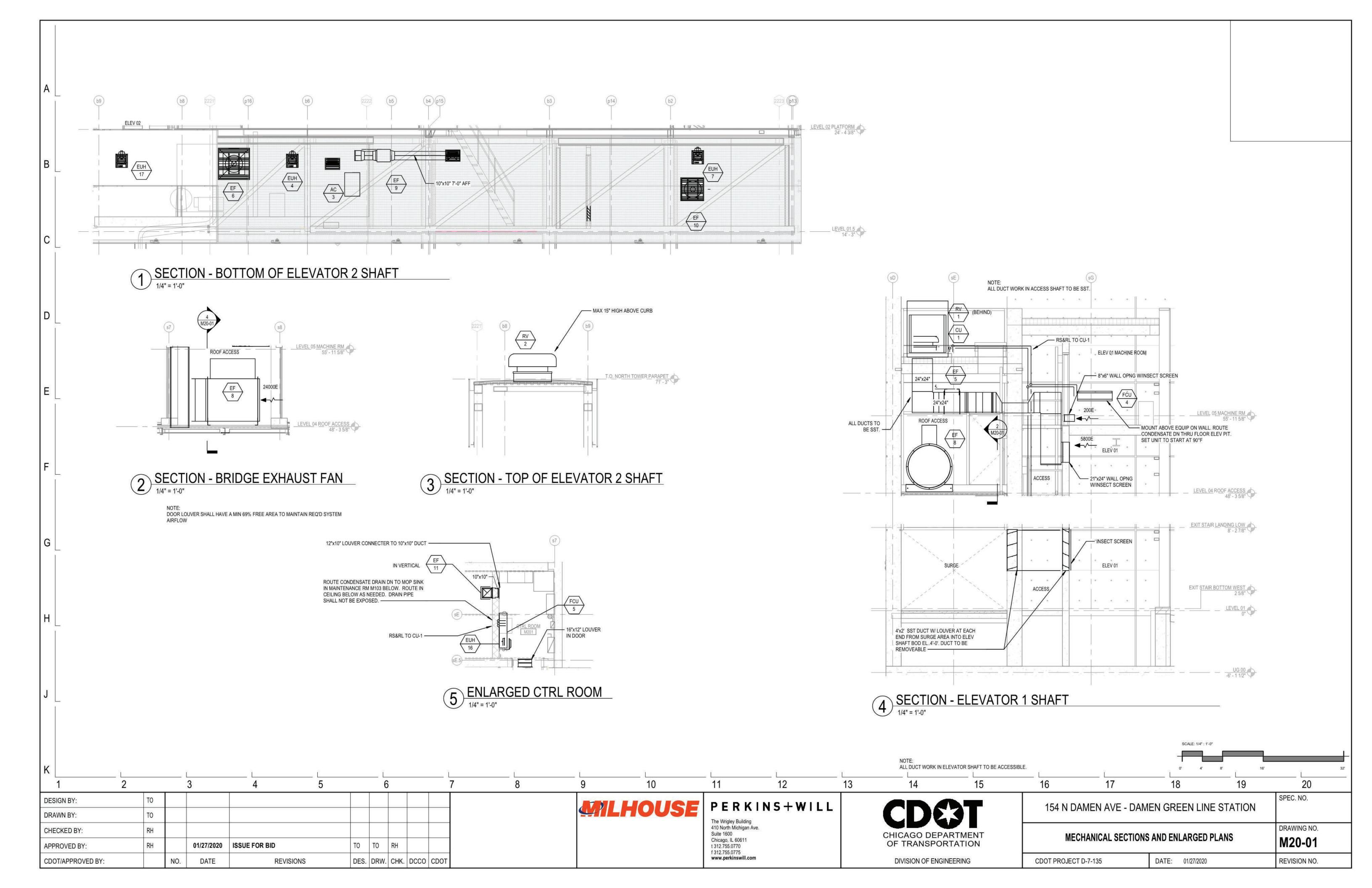
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K1	2	RJH 1. MECH	IICAL EQUIPMENT TAG IANICAL EQUIPMENT TYPE PMENT NUMBER 6	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8	9	10	11	12	13	14	15	16	17	18	19
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	PACKAGED ELECTRIC DX COOLING AIR HANDLING UNIT SCHEDULE	
A	BLOWER SECTION DX COIL COIL ELECTRICAL DATA FILTER DATA FILT	
В	NOTES: 1. UNITS TO INCLUDE REMOTE T'STATS FOR CONTROL WITH ADJUSTABLE SETPOINTS. 2. CONNECT FCUS TO CU-1. 3. ELEVATOR UNIT TO BE INSTALLED VERTIALLY FACING DOWNWARD. 4. NO WINTER OPERATION VARIABLE AIR VOLUME CONTROL 1. UNITS SHALL BE CONTROLLED FROM THERMOSTATS MOUNTD IN THE SPACES TO MAINTAIN TEMPERATURE IN SUMMER (85F) AND WINTER (65F). 2. FCU-4 SHALL ONLY OPERATE BETWEEN THE MONTHS OF MAY THROUGH OCTOBER (ADJUSTABLE). DURING THE BALANCE OF THE COLD WEATHER, THIS UNITS SHALL REMAIN OFF. ELECTRIC HEATING EQUIPMENT SCHEDULE	
C	EXHAUST FAN SCHEDULE Coation CFM Coation CFM CFM	MOUNTING 10' 7' NA NA NA NA NA WALL WALL WALL WALL WALL
E	AIR COOLED CONDENSING/CONDENSER UNIT SCHEDULE SUPERATOR SOUTH TOWER SOUTH TOWER	MITH A
F	GRILLE SCHEDULE FEQUIPMENT MODULE MAX NC. MAX PD TYPE MODEL THROW MOUNTING TYPE MODEL TYPE DESIGNATION SIZE NECK SIZE NEC	R ALL O 10 IDING A
	1. BORDER TYPES SHALL BE IN ACCORDANCE WITH LATEST APPROVED ARCHITECTURAL REFLECTED CEILING PLAN FOR THE ROOM IN WHICH THE DEVICE IS LOCATED. 2. SEE PLANS FOR LOCATION AND AIR QUANTITIES OF EACH AIR DEVICE. 3. ALL AIR DEVICES SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-91. 4. FINISH SHALL BE PAINT EXTRUDED ALUMINUM CONSTRUCTION TO MATCH GRID (COORDINATE WITH ARCHITECT) AND ARCHITECTURAL DRAWINGS. 5. WHEN CHART SHE AS SHALL BE PAINT EXTRUDED ALUMINUM CONSTRUCTION TO MATCH GRID (COORDINATE WITH ARCHITECT) AND ARCHITECTURAL DRAWINGS. 6. WHEN CHART SHE AS SHALL BE PAINT EXTRUDED ALUMINUM CONSTRUCTION TO MATCH GRID (COORDINATE WITH ARCHITECT) AND ARCHITECTURAL DRAWINGS. 6. WHEN CHART SHE AS SHALL BE PAINT EXTRUDED AND REMAIN IN OPERATION UNTIL THE TEMPERATURE IN THE SHAPE TALLS BELOW 70° FOR 2 HOURS (ADJUSTABLE). 6. WHEN CHART SHE AS SHALL BY A SHE AS SHADE TALLS BELOW 70° FOR 2 HOURS (ADJUSTABLE). 7. WHEN CHART SHE AS SHALL BY A SHE AS SHADE TALLS BELOW 70° FOR 2 HOURS (ADJUSTABLE). 8. WHEN CHART SHE AS SHADE TALLS SHE AND THE TEMPERATURE IN THE SHAPE TALLS BELOW 70° FOR 2 HOURS (ADJUSTABLE).	R E IN THE
G	AC UNIT SCHEDULE AREA SERVED LOCATION CFM (BTH) AMPS VOLTS PHASE (LBS) SIZE (WXHXL) MANUFACTURER MODEL REMARKS AC-1 CAK 112 CAK 112 CAK 112 CAK 112 CAK 112 COST SUPERVISER 300 13.6 115 1 95 26.2x11.8x38 COLEMAN MACH 10 452X3*8XX 1.2 AC-2 SUPERVISORS SUDERVISORS BOOTH STATON ROOF BOOTH STATON ROOF AC-3 ELEV MACH RM/2 ELEV MACH RM/	DE AIR FO F
Н	LOUVER/DAMPER FOR THE FAN NAM IS TART THE FAN. NOTES: NOTES: 1. MOUNT ON CAK ROOF & ROUTE CONDESATE DRAIN (3/4") TO FD IN KIOSK. 2. EQUIP UNIT WITH NO HEATER 3. PROVIDE WALL SLEEVE WIUNIT. INFRARED HEATING EQUIPMENT 1. MINE TO LETTRASH ROOM FAN SHALL BE OPERATION OF ALL CONNECTED EQUIPMENT 1. MOUNT ON CAK ROOF & ROUTE CONDESATE DRAIN (3/4") TO FD IN KIOSK. 2. EACH OF THE TOLE TYRASH ROOM FAN SHILL BE OPERATED FROM A SWITCH IN EITHER THE 1 ROOM. 1. DIFFERENCE OF THE TOLE ROOM. 1. DIFFERENCE OF THE TOLE OF T	E TRASH
J	TAG	TE. E ALARM

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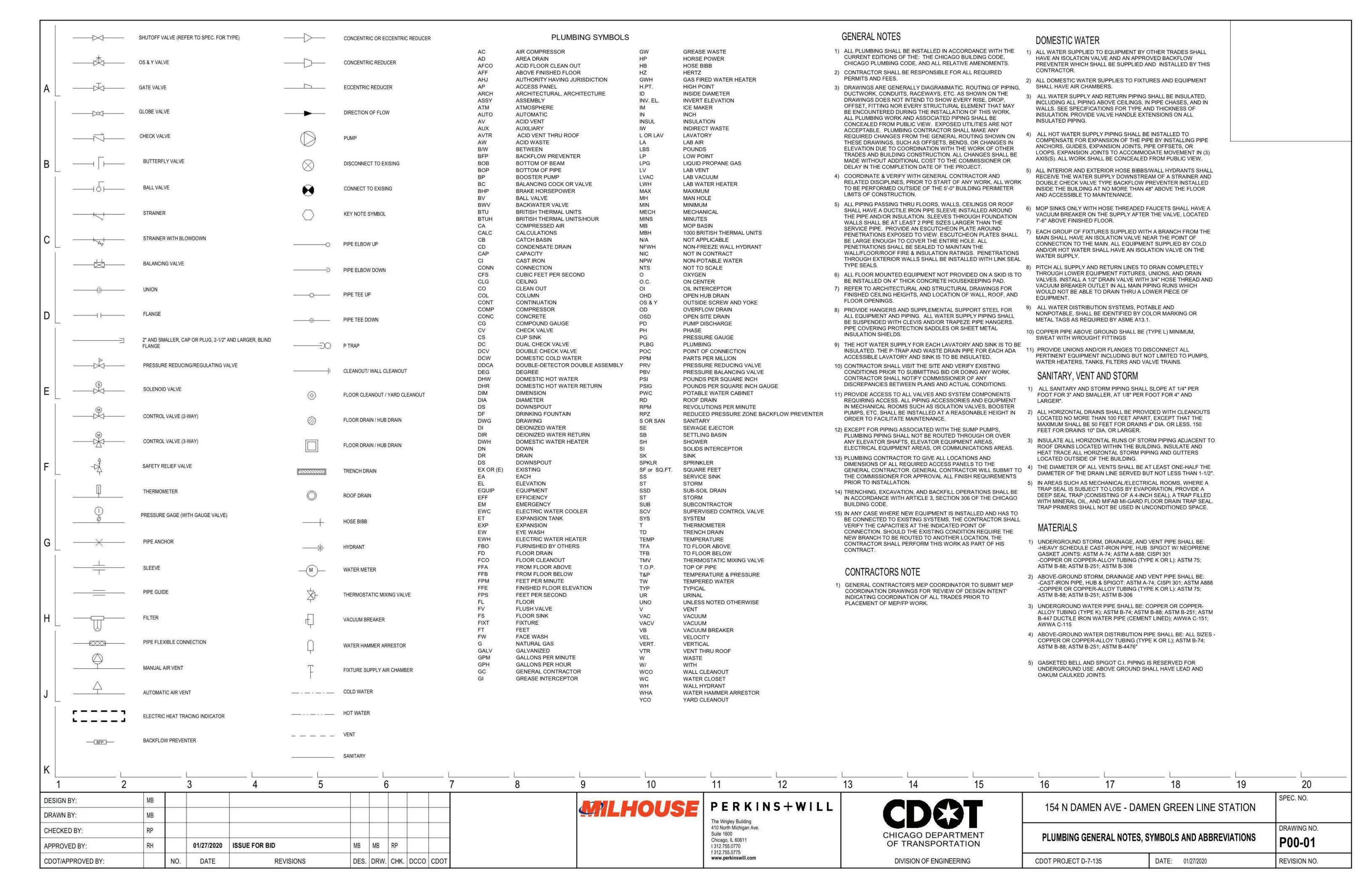
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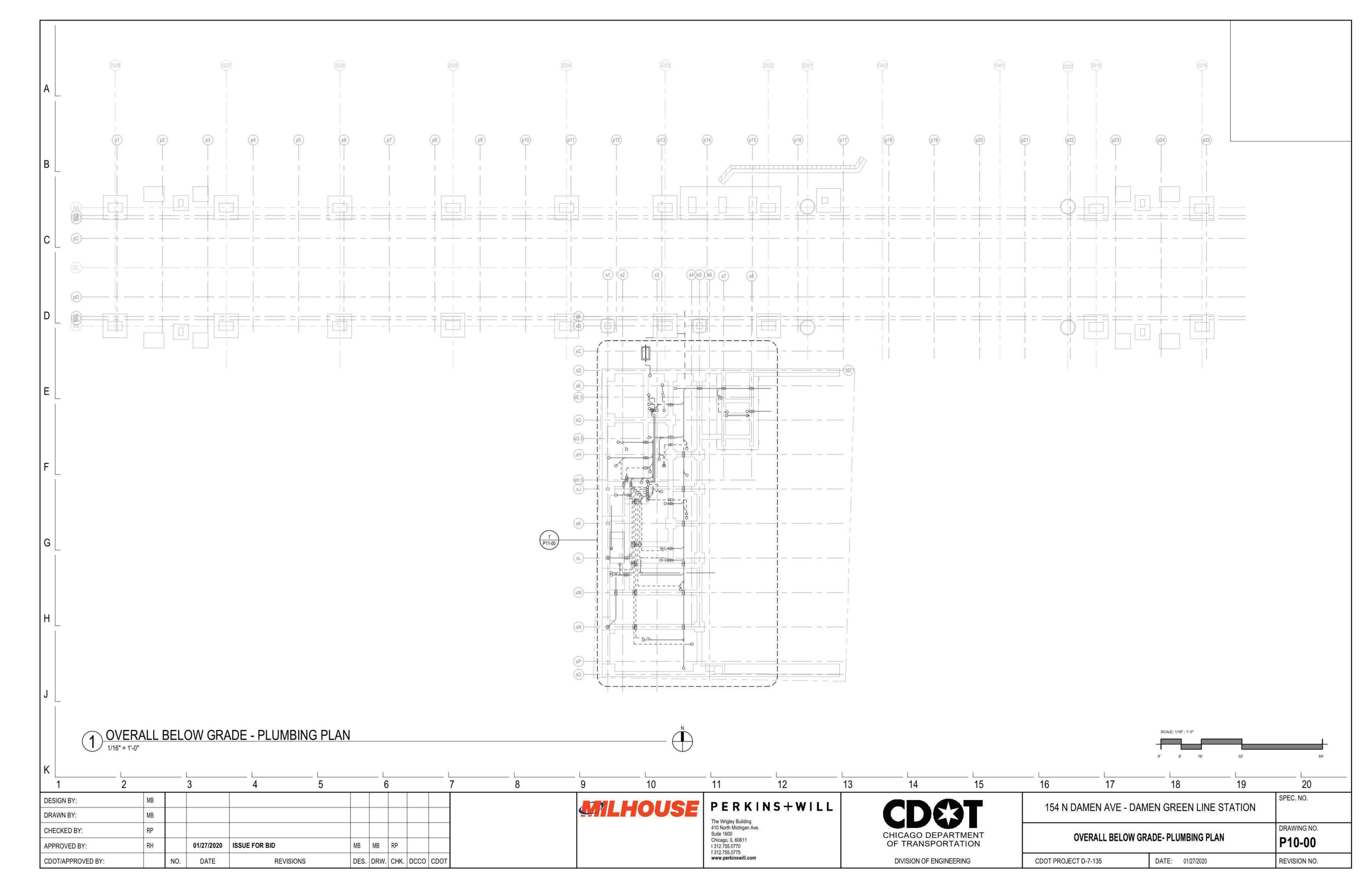
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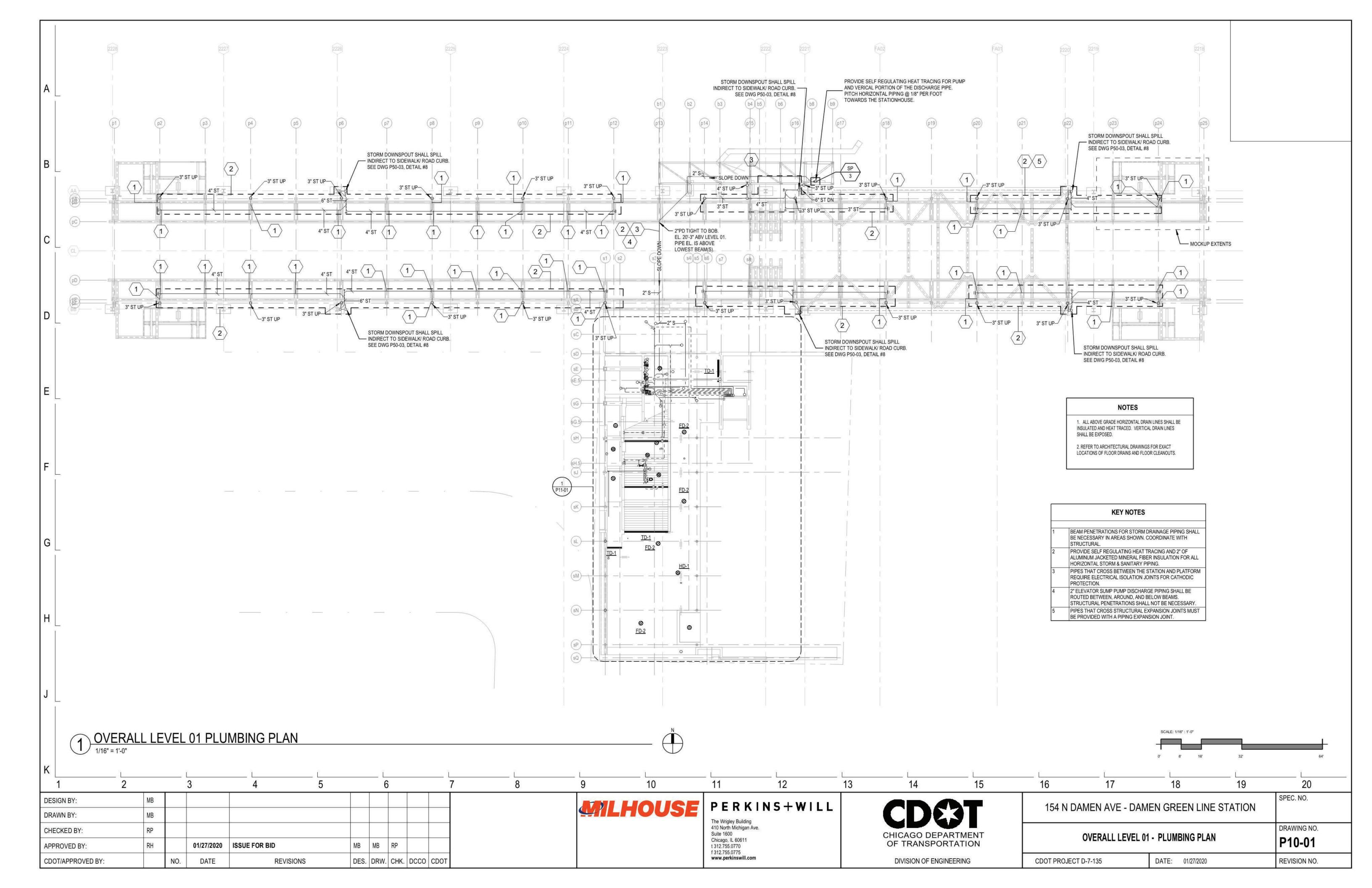
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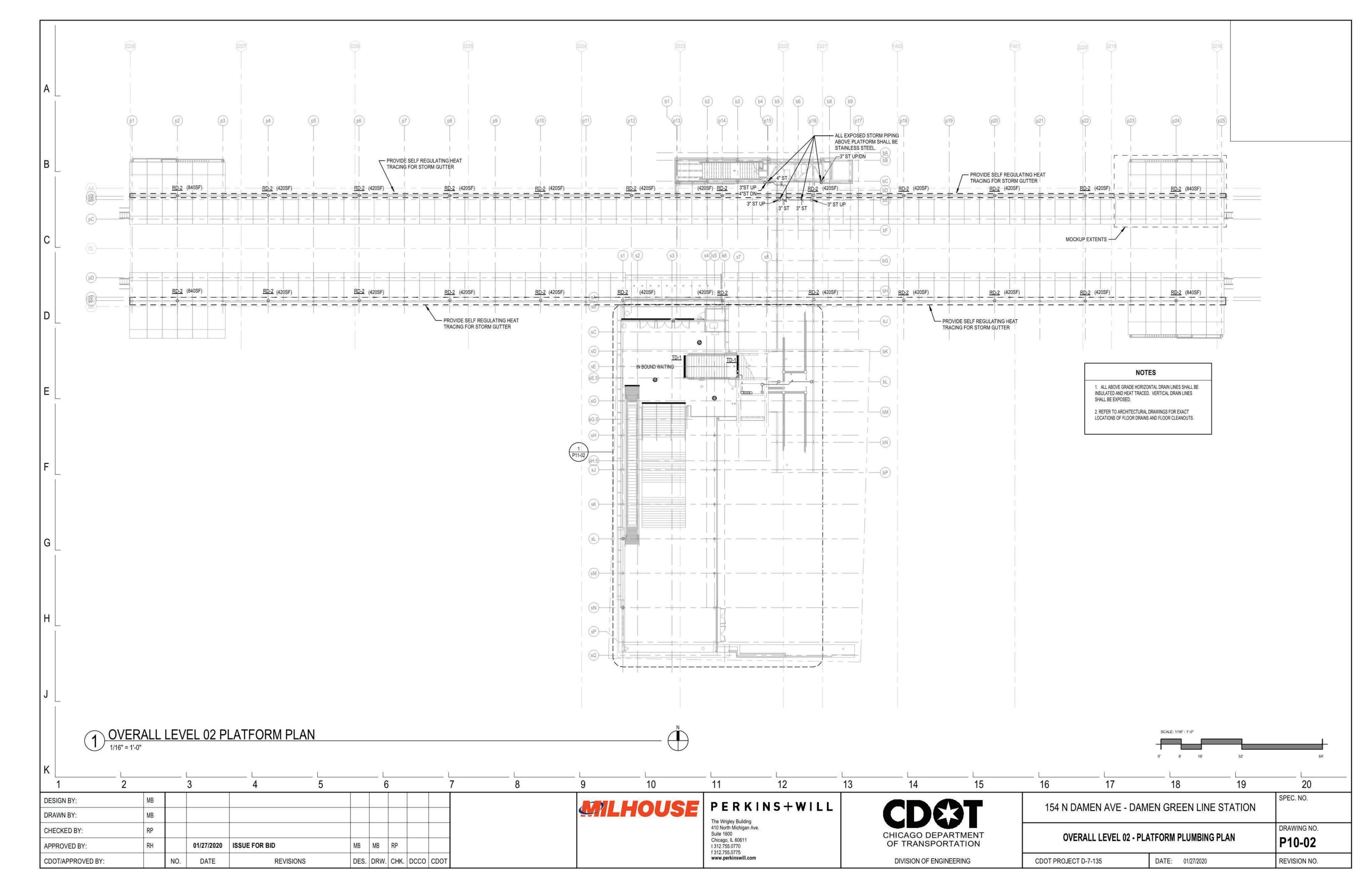
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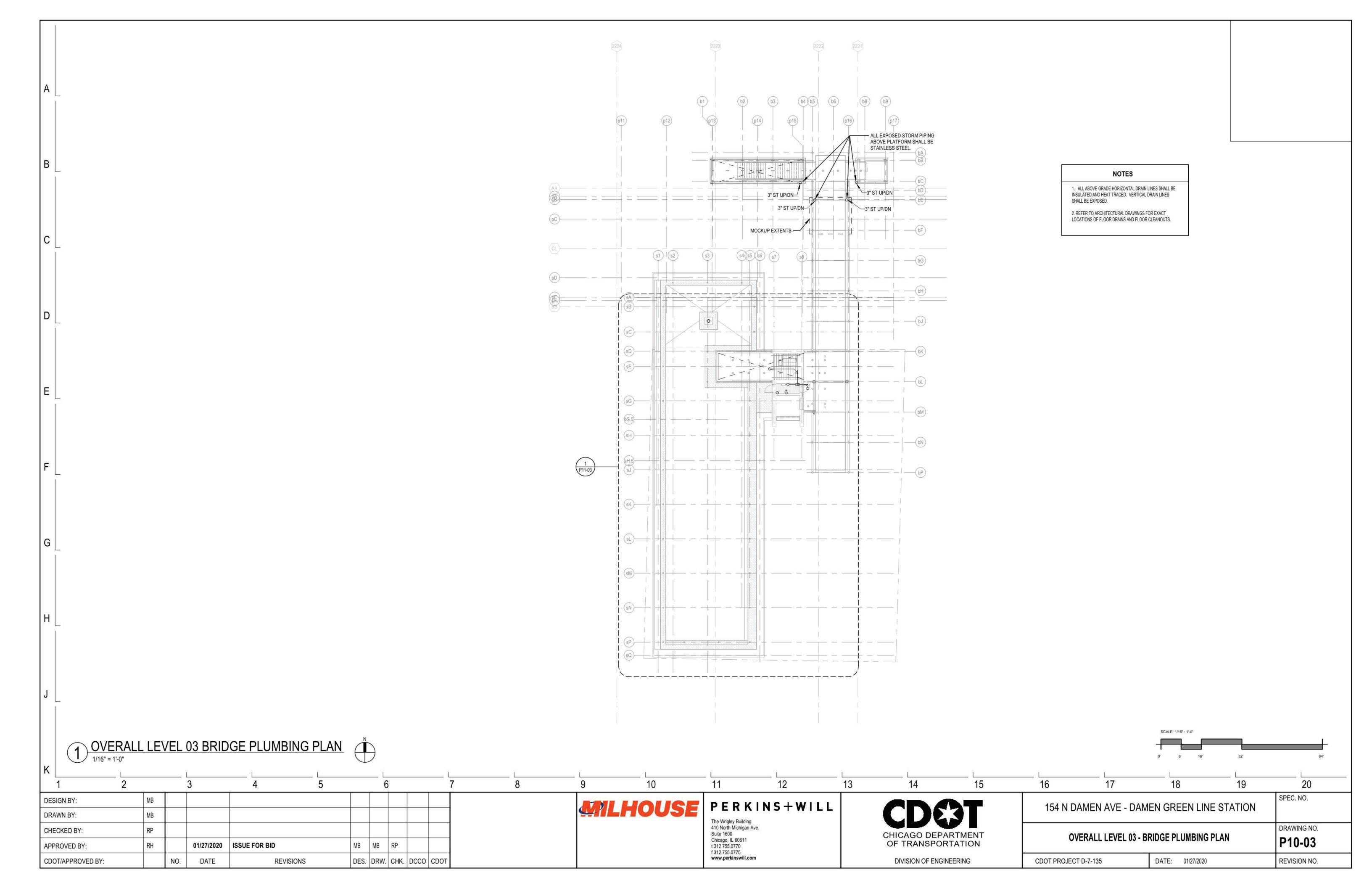
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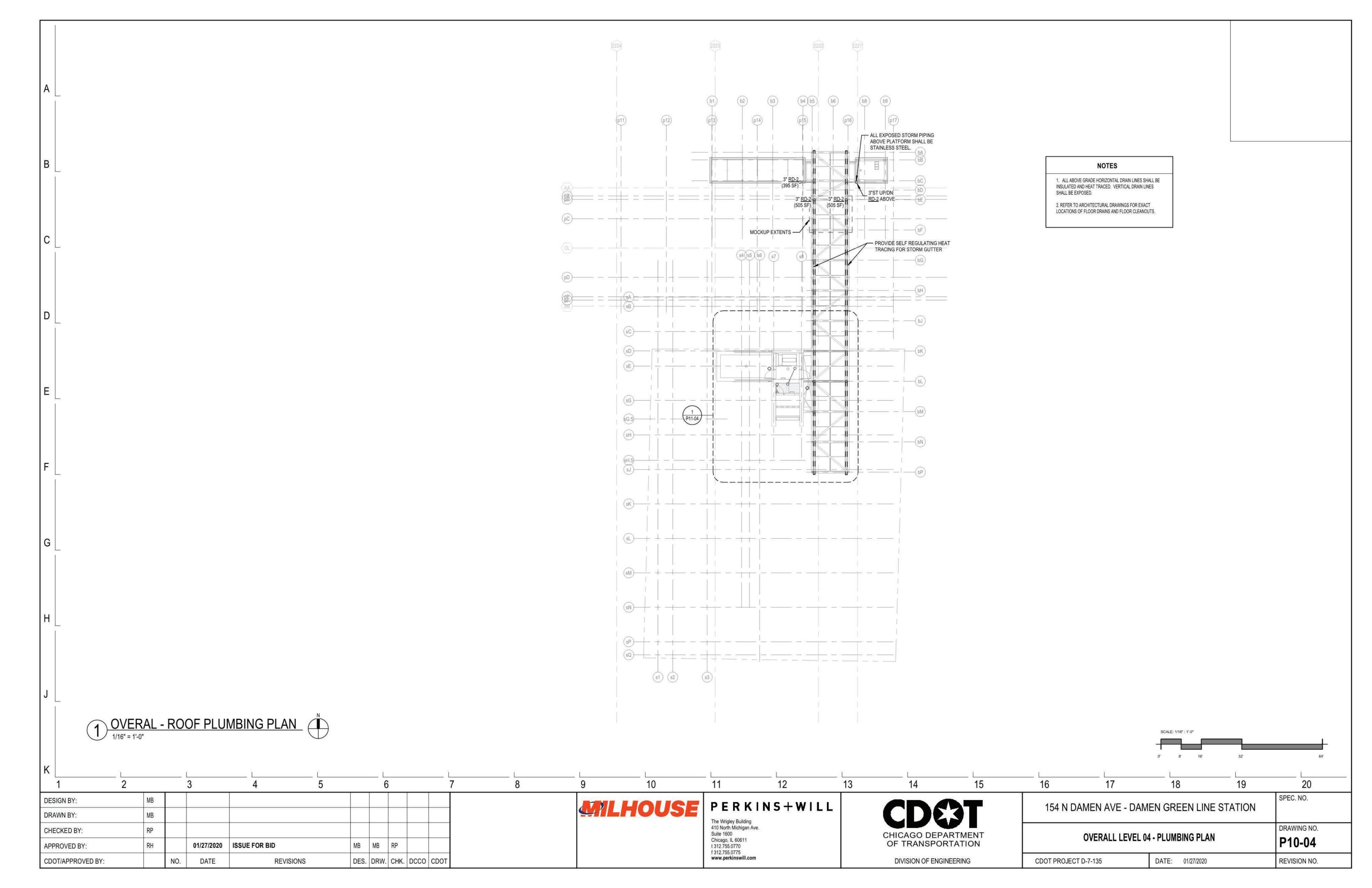


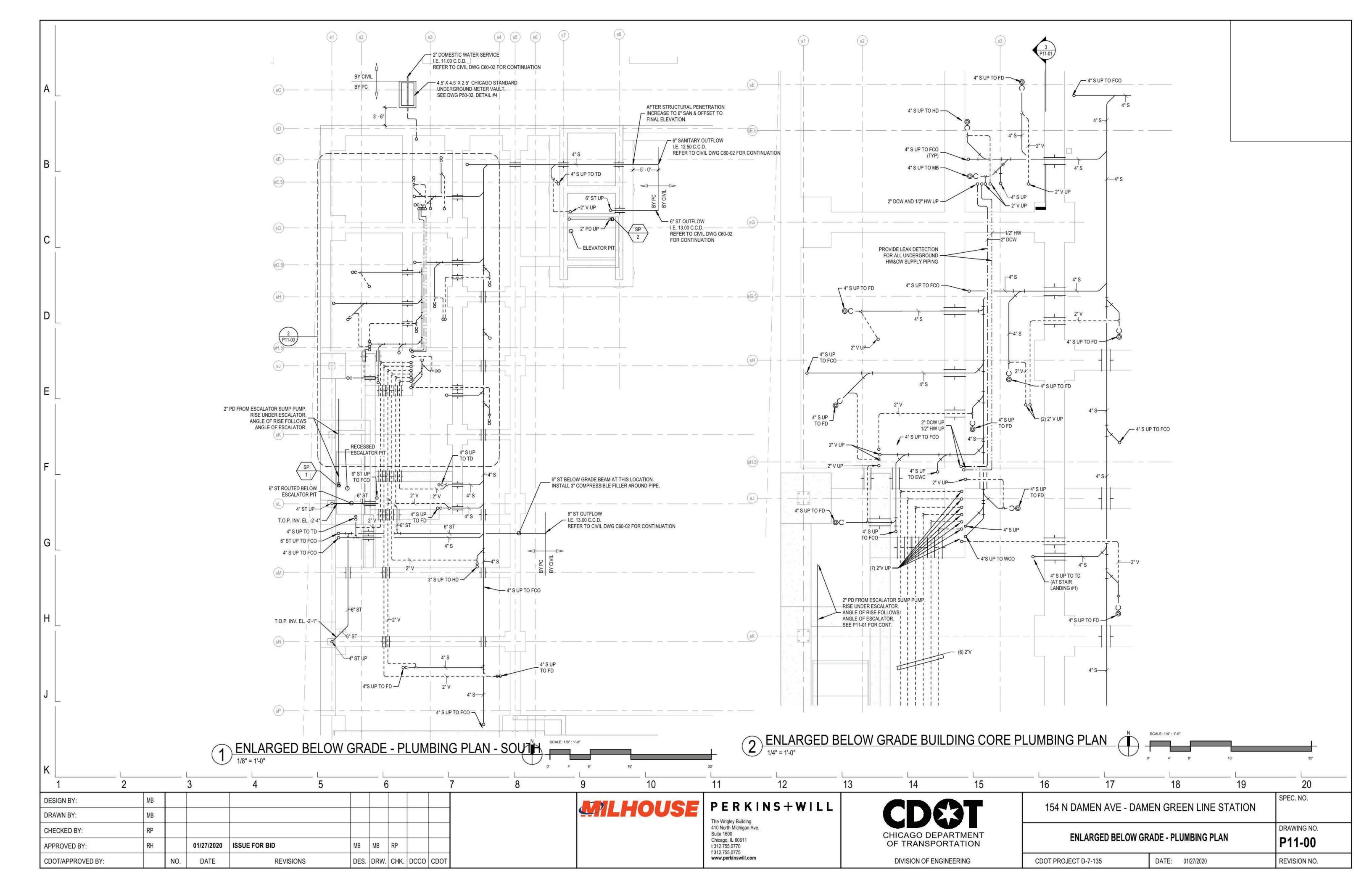


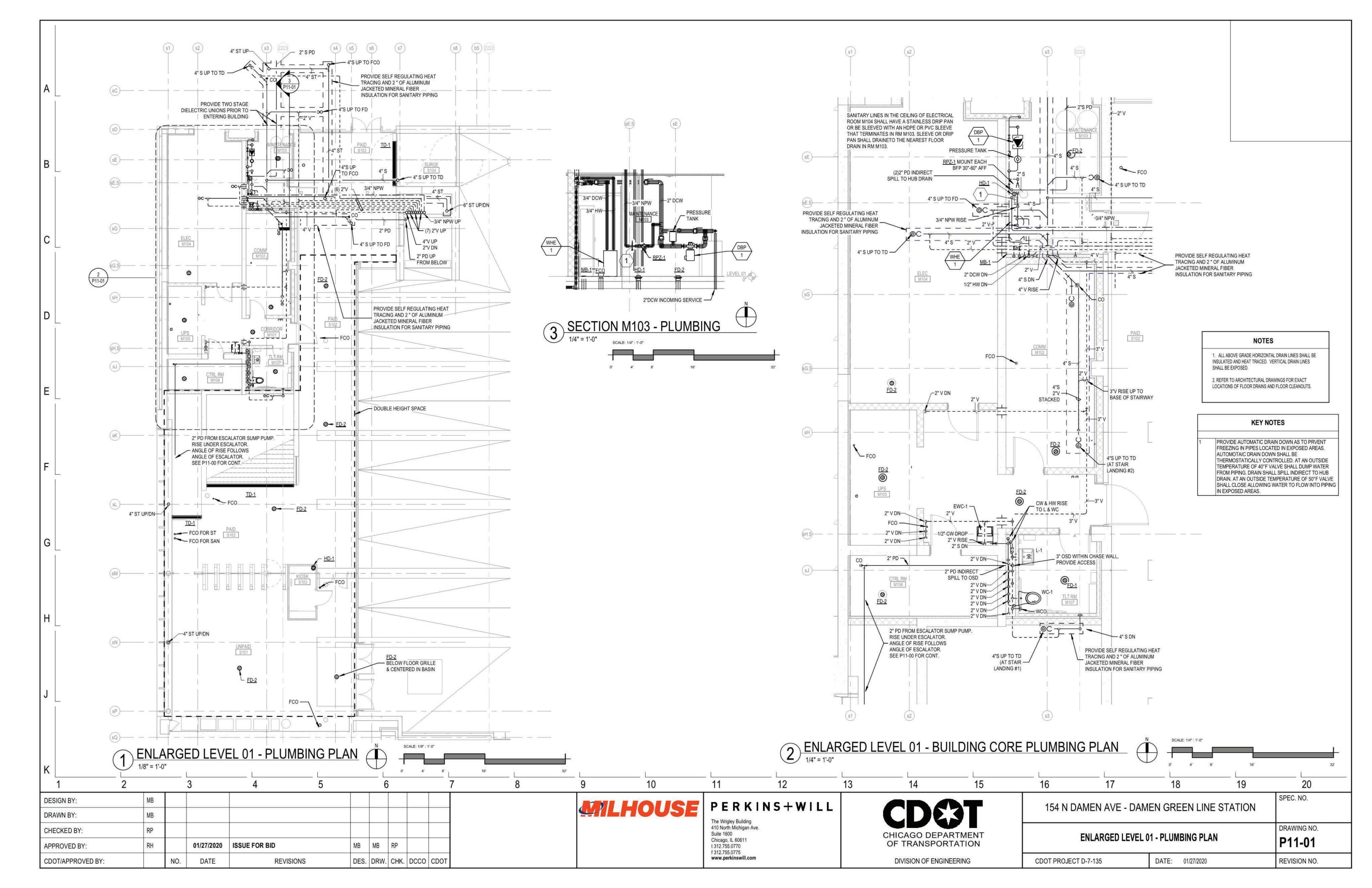


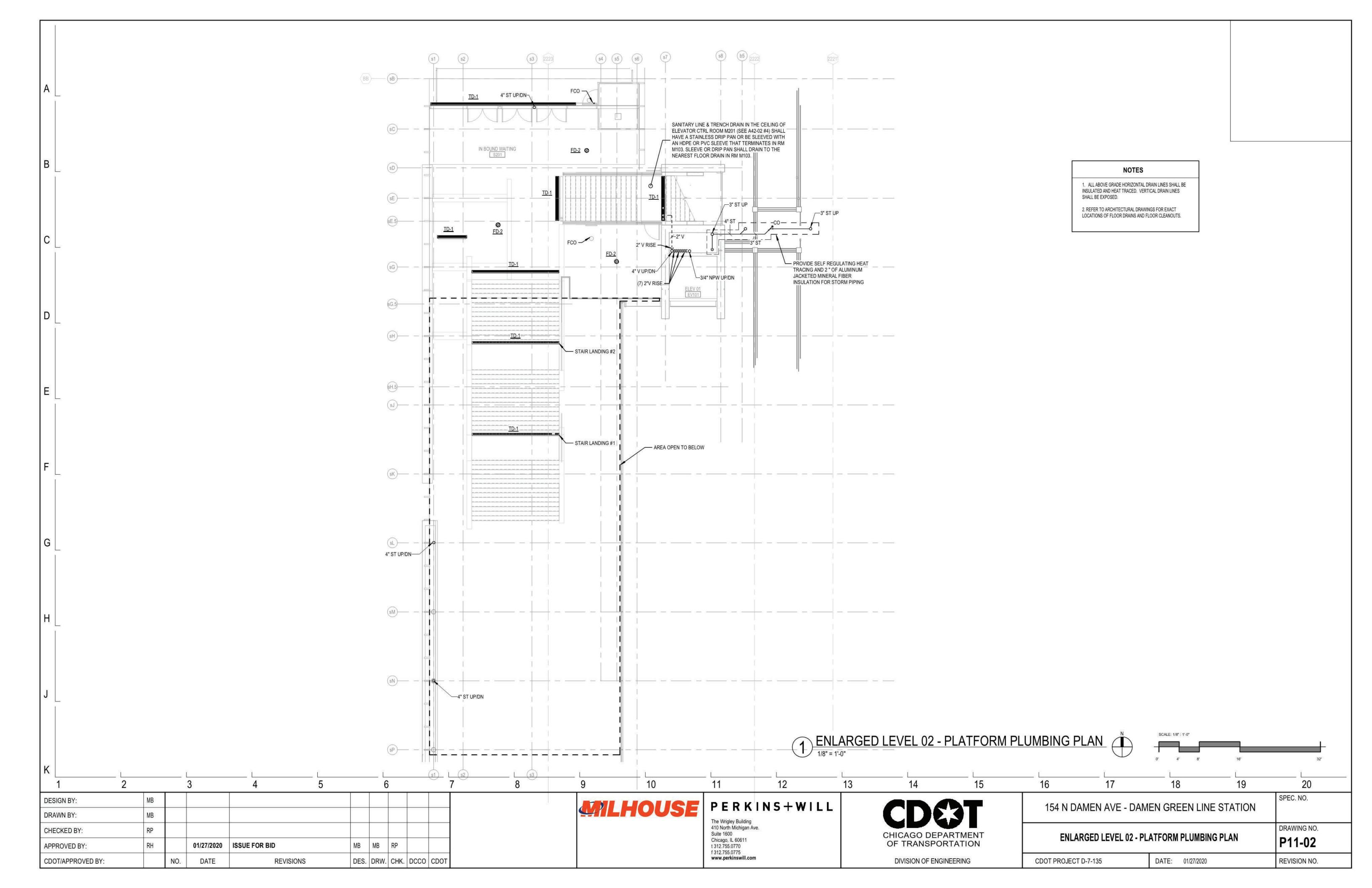


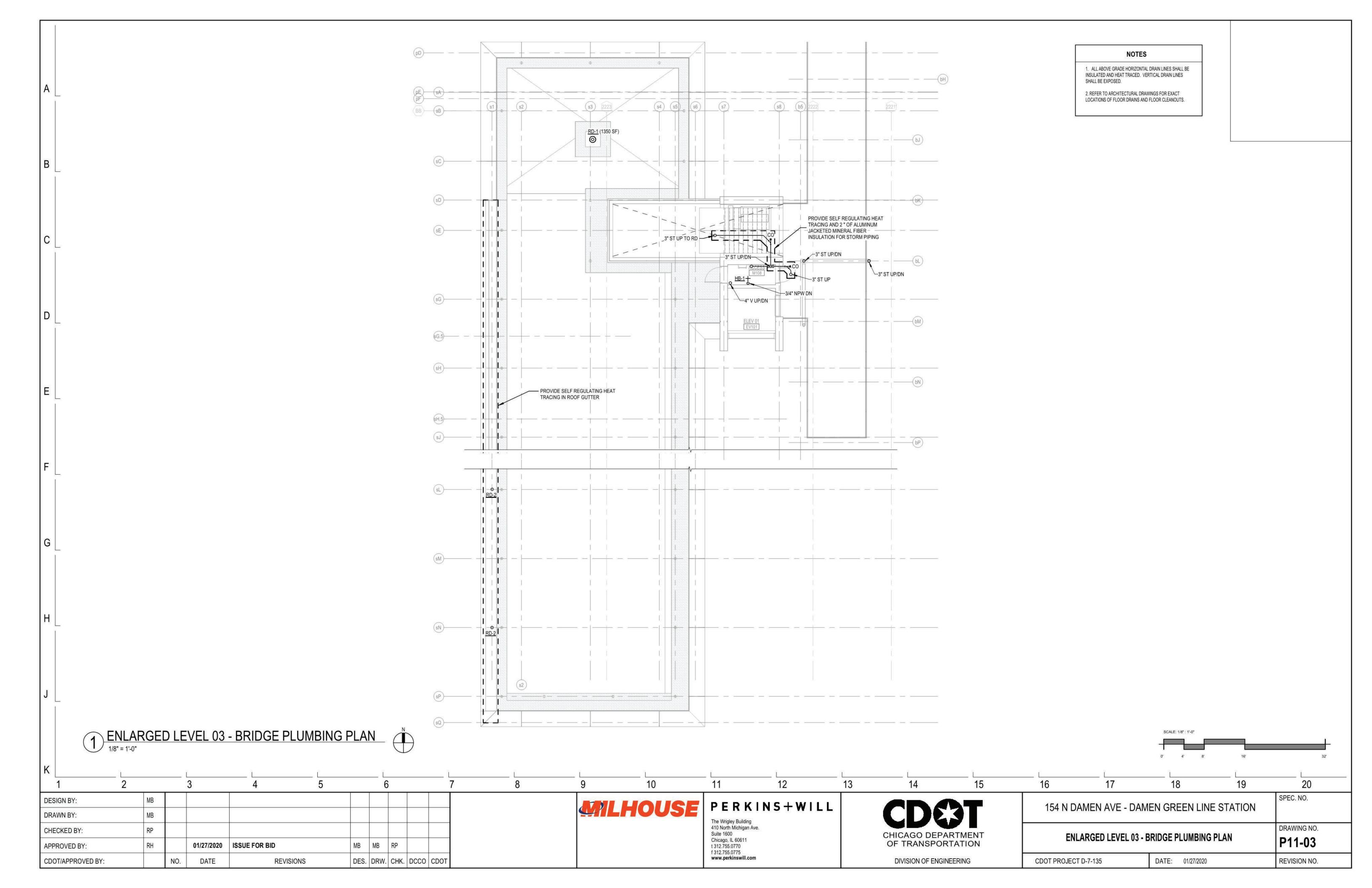


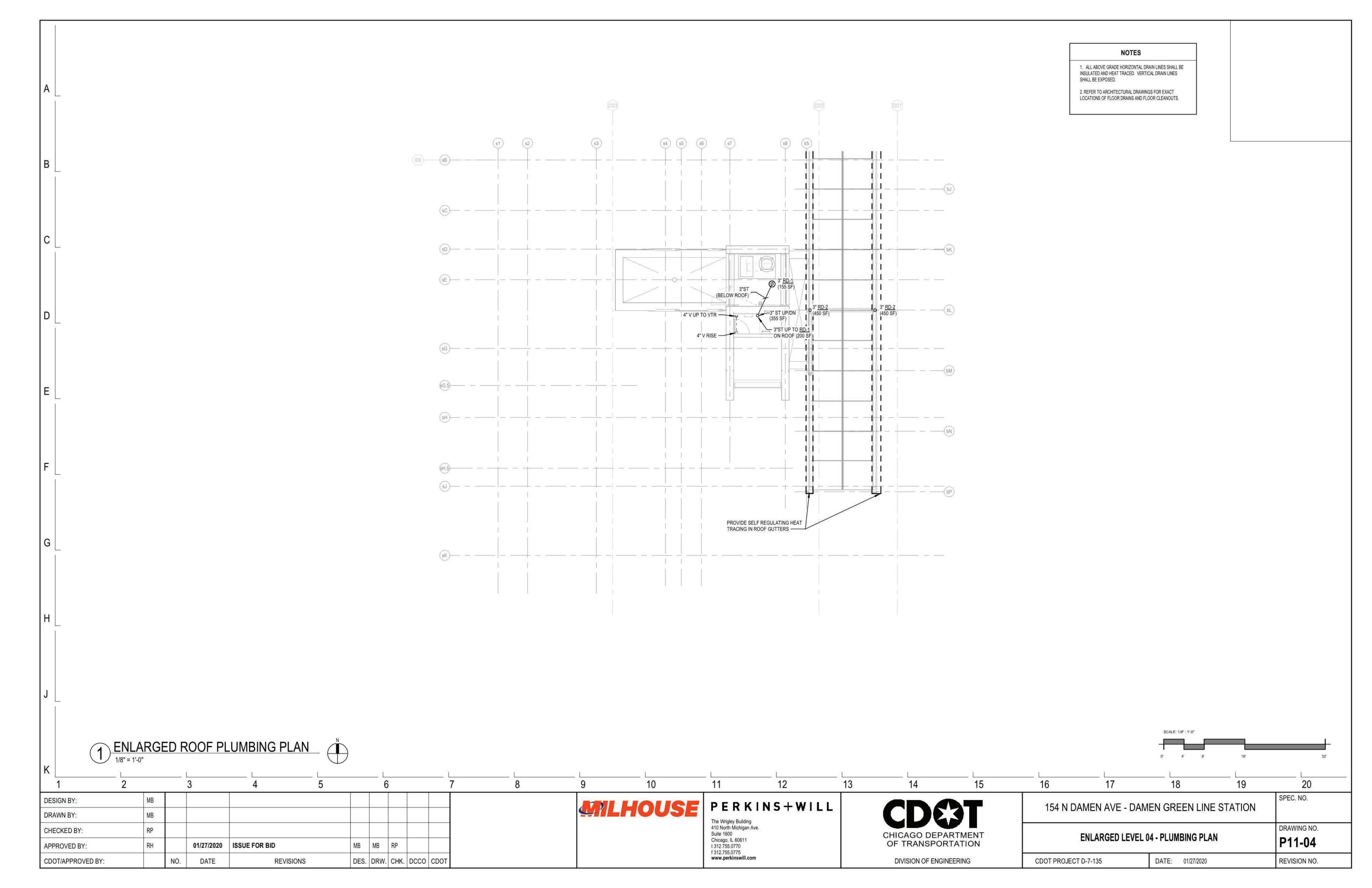


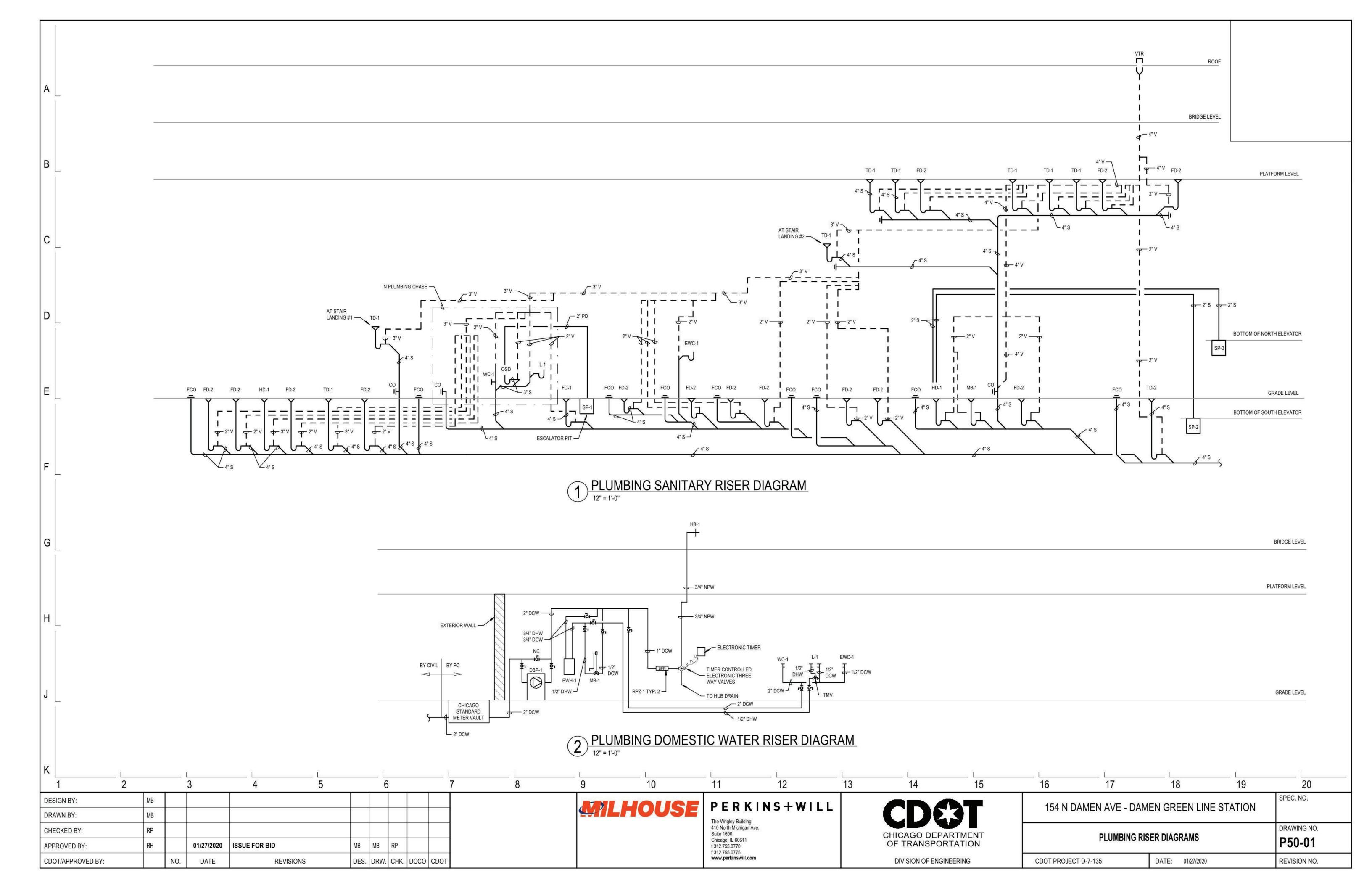


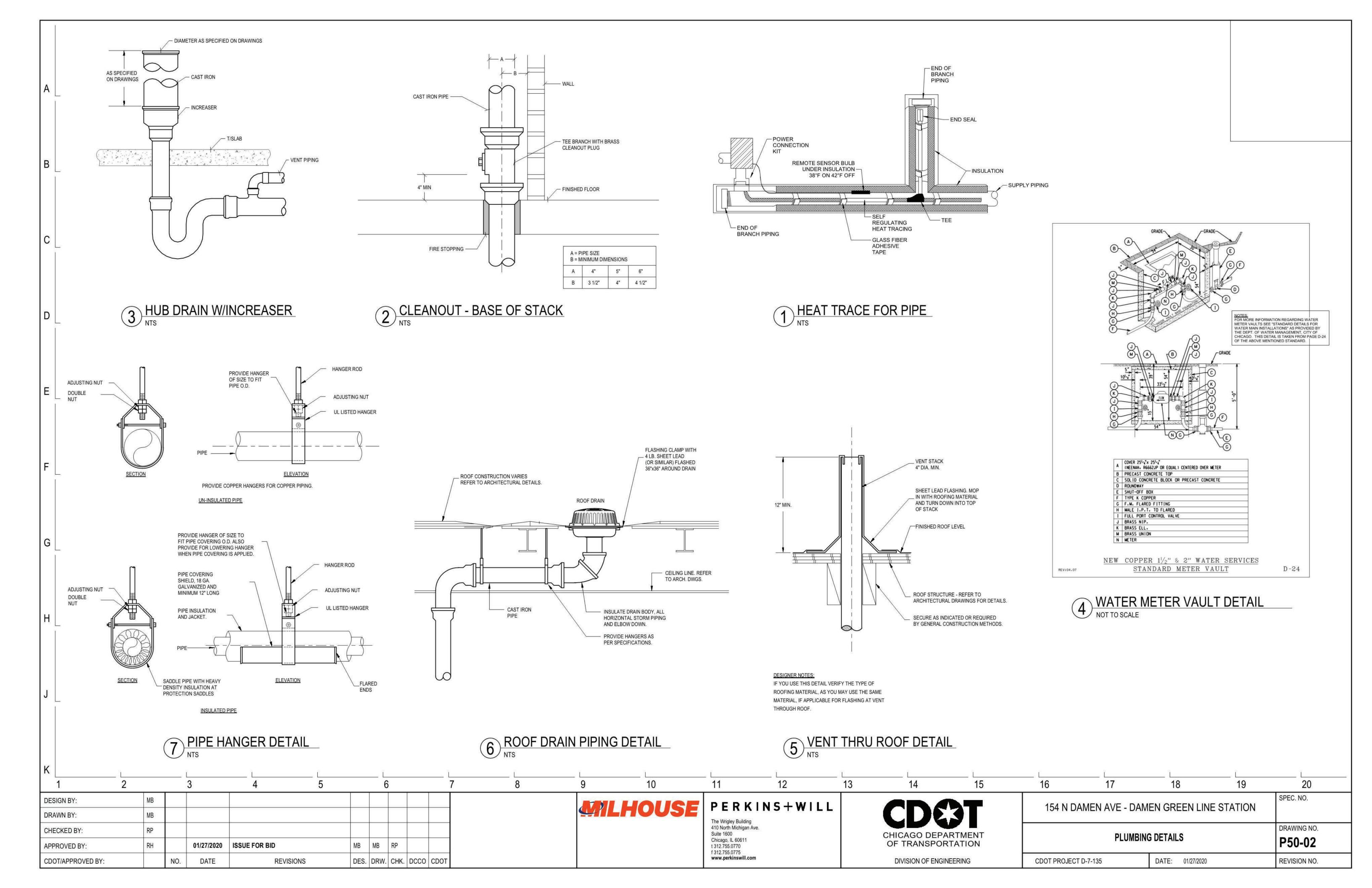


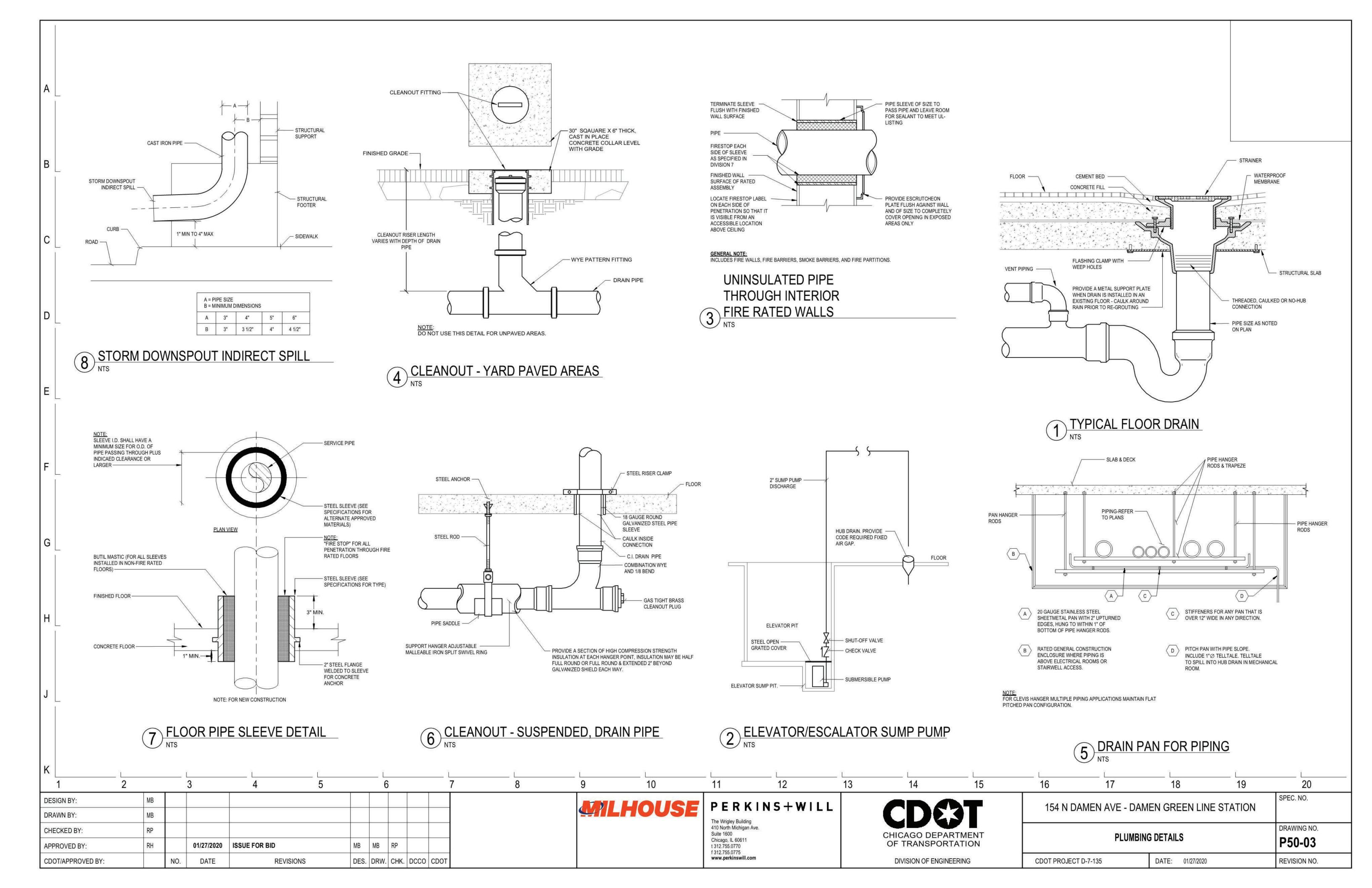




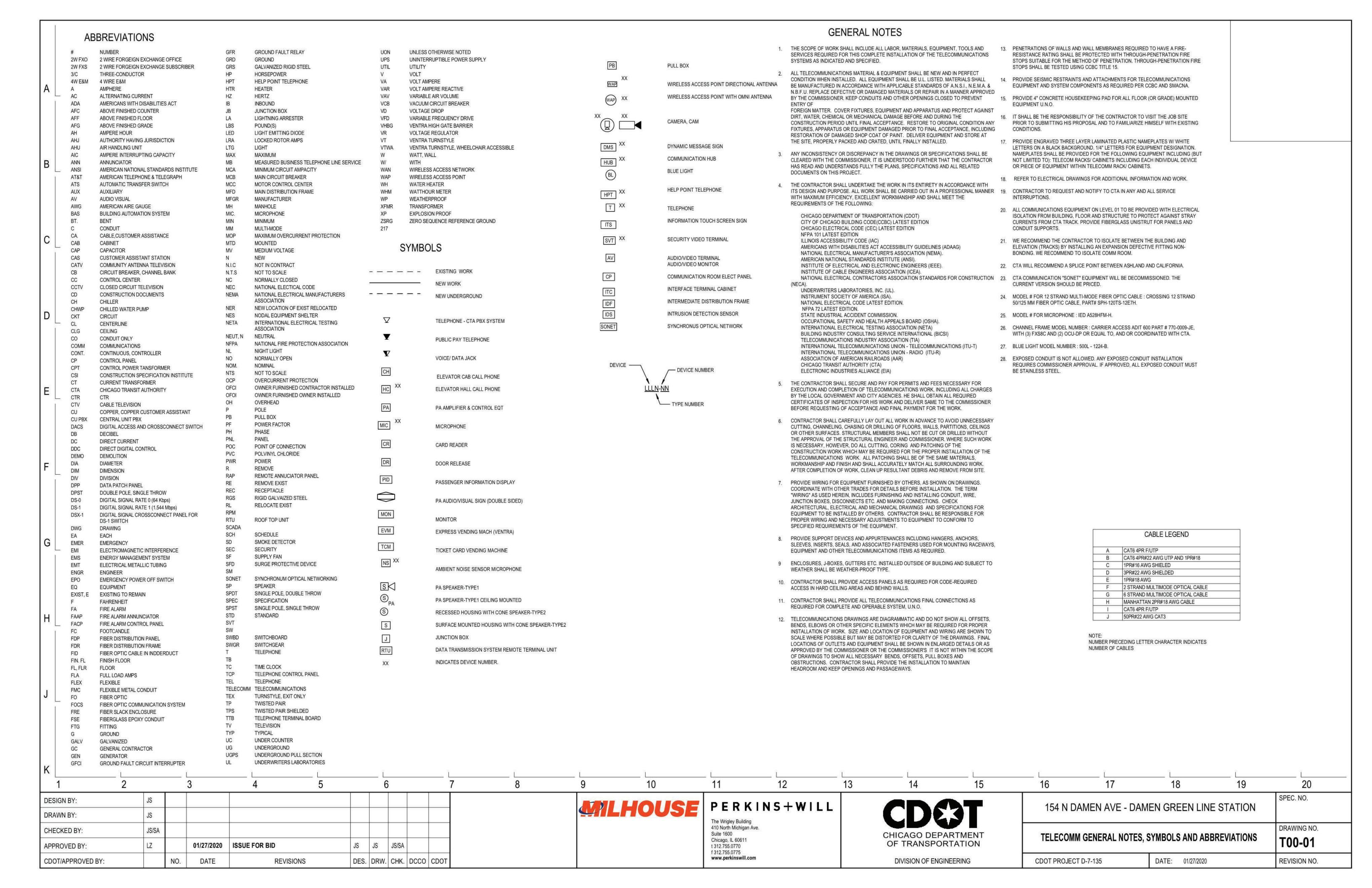


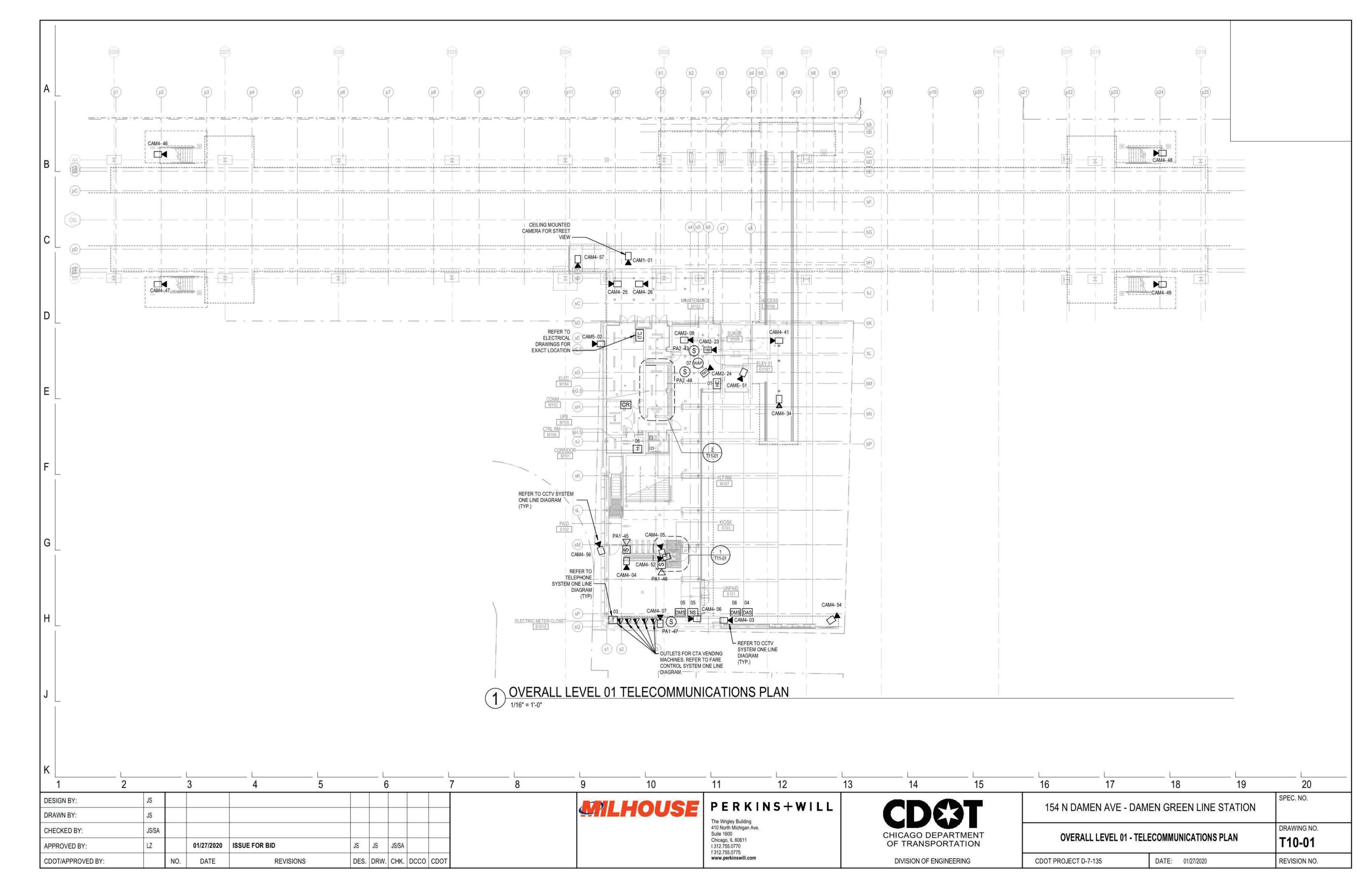


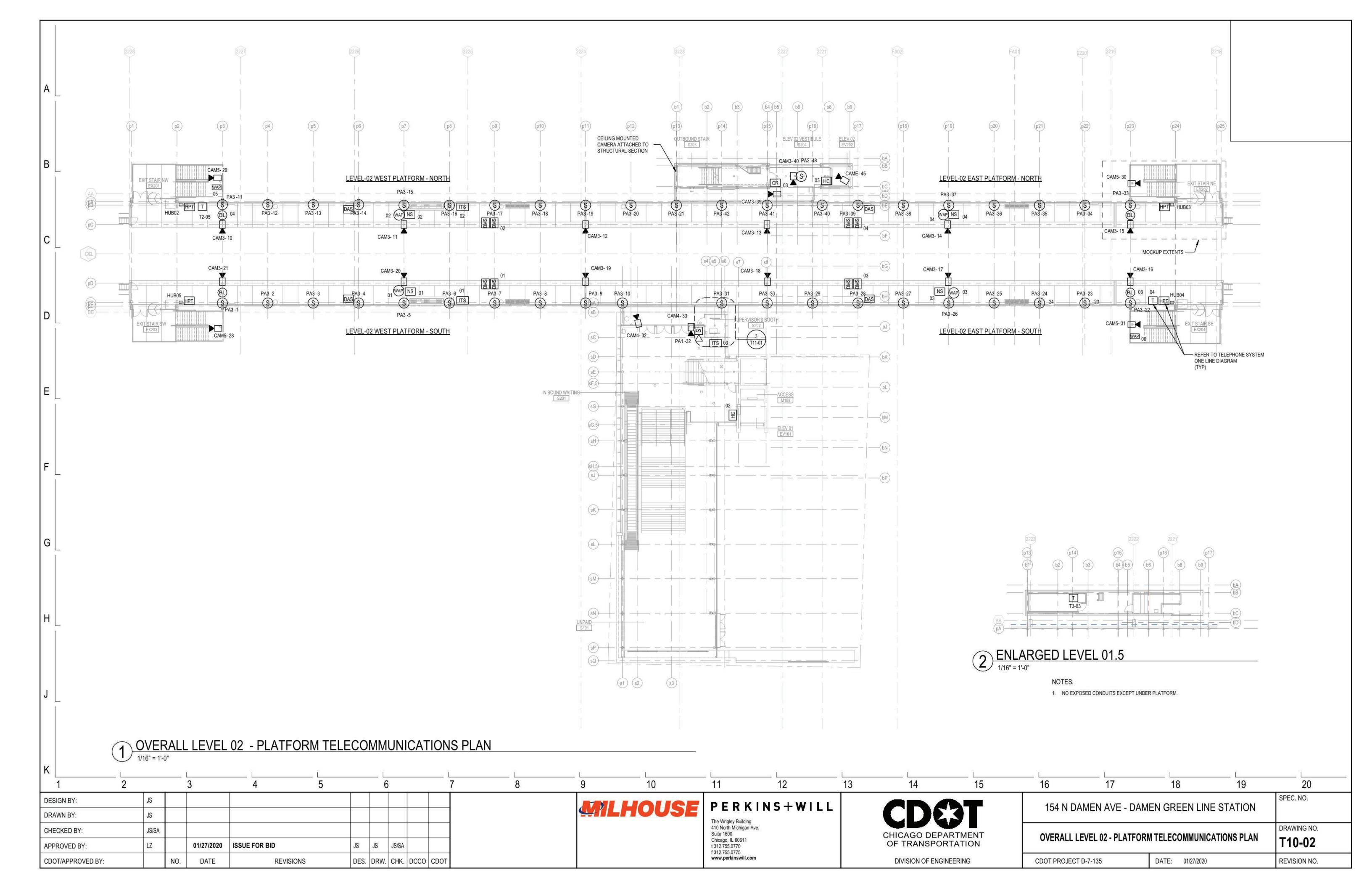


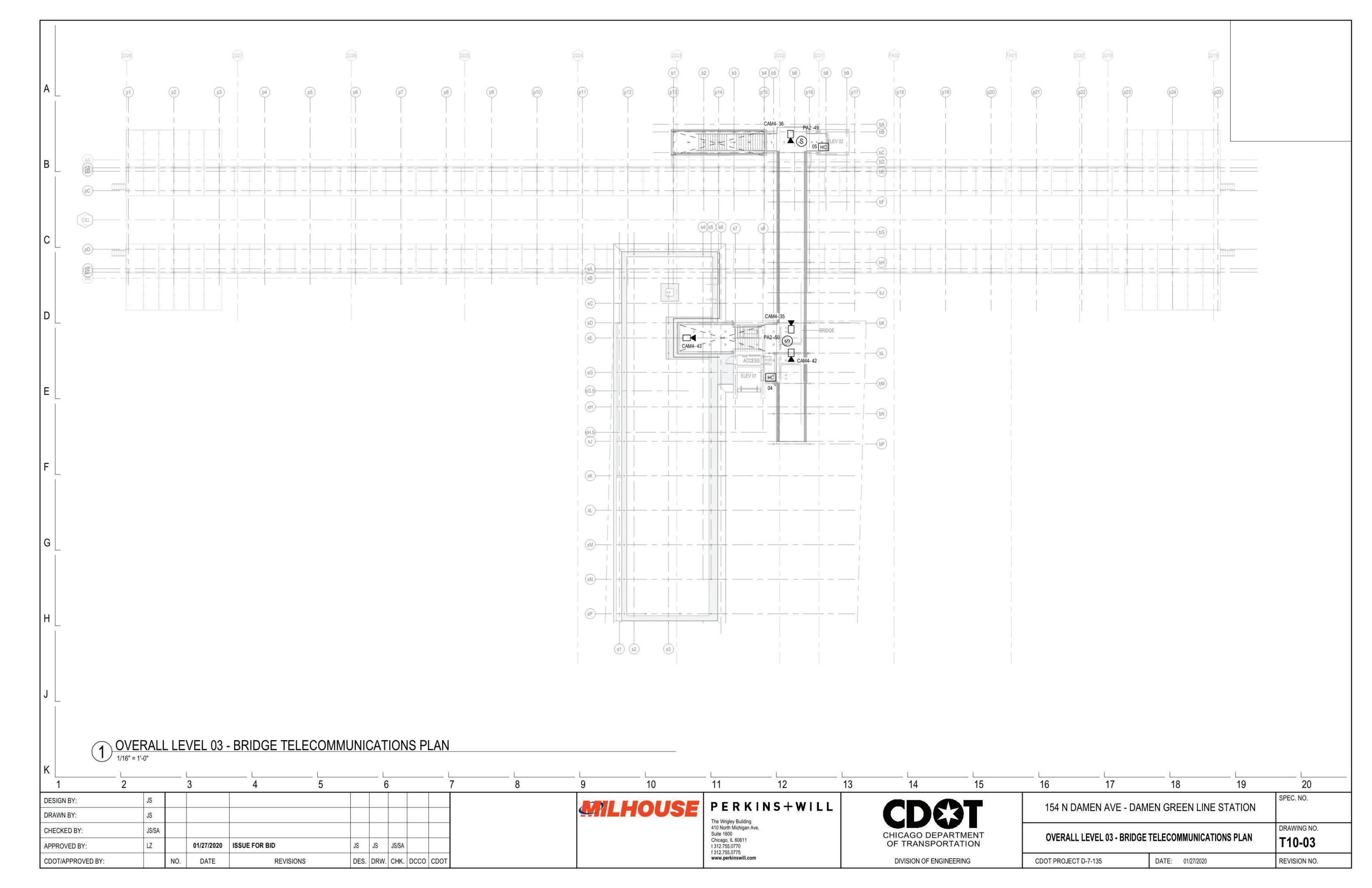


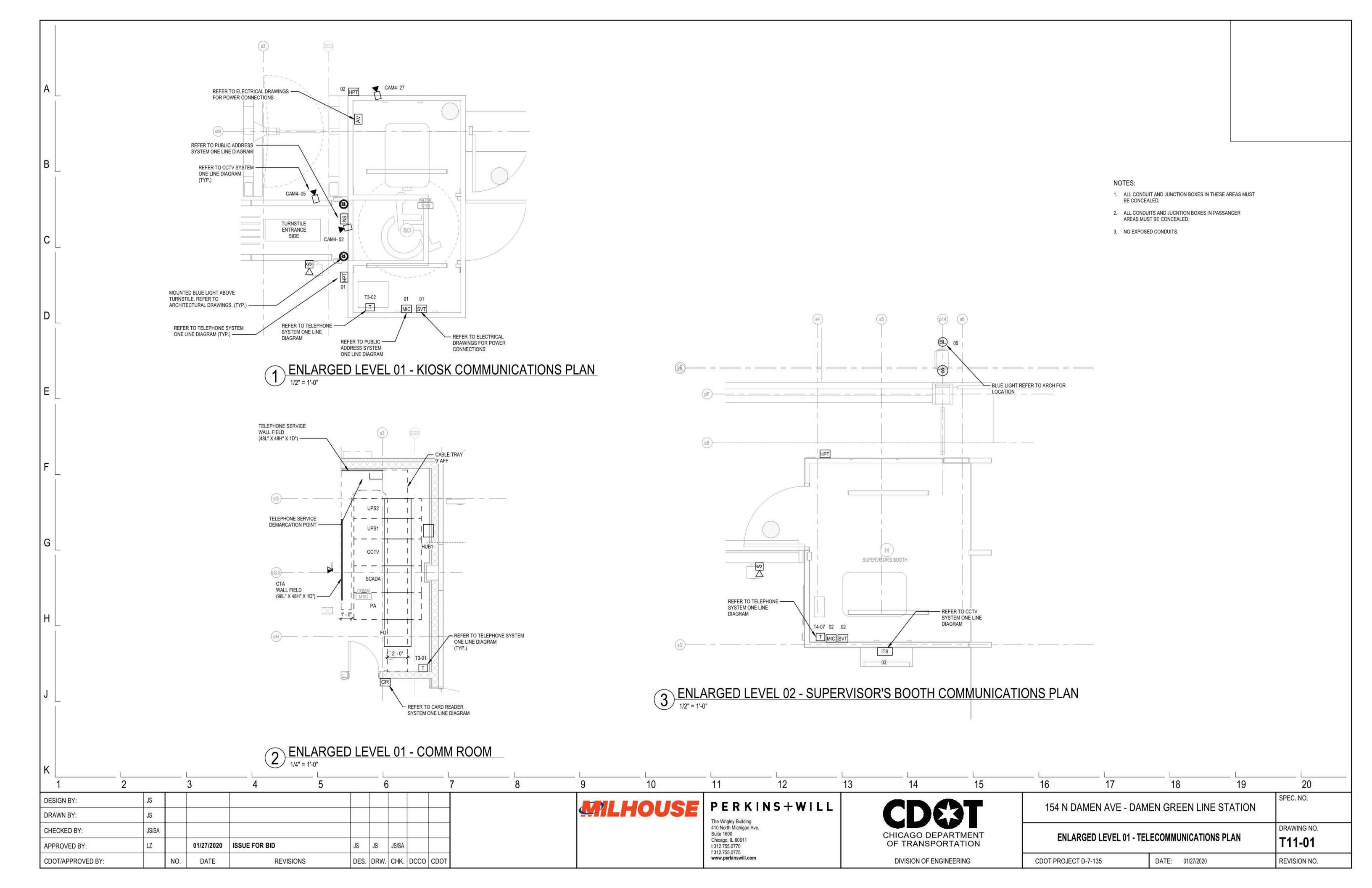
							PLUM	MBING FIXTURE SCHE	DULE														
TAG		DESCRIPTION DRAIN	COUNT 1	MATERIAL CAST IRON	MANUFACTURER JAY R. SMITH 200	MODEL	FLOOR DRA	IN FOR USE IN AREAS	WITH A FINISHED FL	LOOR.	N	NOTES											
FD-2 HD-1	FLOOF HUB D	DRAIN RAIN	14 2	CAST IRON CAST IRON	JAY R. SMITH 212 JAY R. SMITH 200	5 w/2645	HEAVEY DU'	TY FLOOR DRAIN FOF IN W/ HUB ADAPTER.	USE IN AEARS WITH	H AN UNFINISHE	ED FLOOR. SEE DWG P												
RD-1 RD-2	ROOF	DRAIN	32	CAST IRON CAST IRON	JAY R. SMITH 162						ME, EXTENSION, SUMP				IANUOM								
ID-1	LINEA	R TRENCH DRAIN		POLYMER CONCRETE W/ STAINLESS STEEL G	GRATE ABT PO	YDRAIN - 4-04.403C.WB-W	/41N PRECAST IF	RENCH DRAIN 4" ID W	STAINLESS STEEL G	GRATE, HINGEL	D COVER AT EVERY DRA	RAIN PIPE LOCA	TION, AND BUILT IN G	GRATE LOCKING MEC	HANISM.								
				BACKELOW B	REVENTER SCHEDULE	ž																	
TAG		DESCRIPTION	MAN	IUFACTURER	MODEL MODEL	APPROV	ALS	REMARK	S .														
RPZ-1	REDUC	ED PRESSURE ZONE		WATTS	LF009	ANSI/ASSE	1013																
								PL	FIXTURE	URE SCH	EDULE			VALVE	FAUCET/TRIM								
TAG	6	NAME	QTY	GPM/GPF	LOCATION		т	YPE		UFACTURER	MODE	DEL	TYPE	7,545,545	UFACTURER	MODEL		REMARKS					
WC-1	1	WATER CLOSET	1	16	TOILET ROOM	WALL	MOUNTED TOP	OUTLET, VITREOUS	CHINA	KOHLER	K-4325	25.0	EXPOSED M	MANUTAL	SLOAN	DOVAL 115		ACHITECTURAL DRAWINGS	FOR				
WC-	<u> </u>	VATER CLOSET		1.6	TOILET ROOM	WALL	MOUNTED, TOP	OUTLET, VITREOUS	CHINA K	KOHLER	K-432:	25-0	EXPOSED IV	IANUAL	SLOAN	ROYAL 115		MOUNTING HEIGHTS					
L-1		LAVATORY	Ĩ	0.5	TOILET ROOM	20"	X 18", WALL MOU	INTED VITREOUS CH	HINA K	KOHLER	K-2053	53-N	MANUA	AL CHI	AGO FAUCET	404-VE2805CP	REFER TO A	ACHITECTURAL DRAWINGS MOUNTING HEIGHTS	FOR				
MB-1	1	MOP BASIN	1	6	JANITORS CLOSET	24	" x 24" x 12" PRE-	CAT. TERRAZZO BA	SIN	FIAT	TSB30	3000	MANUA	AL CHI	AGO FAUCET	911-ISCP	W/ ELEVATED ATTACH ASS	VACUUM BREAKER 7' 6" A SEMBLY TO WALL ON UNIS	F MIN, RUT				
EWC-	-1 ELEC	TRIC WATER COOLER	R 1	0.25	NEAR BATHROOM		WALL MOUNTED	, STAINLESS STEEL	e 1	ELKAY	EZS	S8			100	(5	THE SAME M	R COOLER. PROVIDE W/ FIL IANUFACTURER. PROVIDE	115V,				
		N. Proposition of the Propositio		V0 000									2017.00				60HZ E	LECTRICAL CONNECTION					
HB-1	1	HOSE BIBB	1	5 L	LEVEL 03 - HOISTWAY - M108		BENT NOS	SE HOSE BIBB		NA	NA	A	(*)	J.	Y R. SMITH	5670							
	FIXTURE S				SAME SIZE AS THE SUPP OVIDE LAVATORIES WITH		ETS TO MEET A		ITS.								Ĩ						
TAG		TYPE		DISCHARGE SI	IZE TOTAL/MAX TDH	(FT)	M	OTOR HZ HP(EA.)	PPM	BASIN SIZE	MANUF	IFACTURER	MODEL NO.	LOCAT	ON	NOTE	S				Elevator Su	ımp Pump Calcula	ations
SP- 1	s	JBMERSIBLE ELEVAT	OR SUMP PUMP	2"	50 1			60 0.5		CIFIED BY STRI	UCTURAL V	WEIL	1411-538	ESCALAT	OR PIT	PUMP SHALL INCLU	DE INTEGRATED			Pump #	# Static Friction	ion Loss Total Dynamic Head (TDH)	
SP- 2	s	JBMERSIBLE ELEVAT	OR SUMP PUMP	2"	50 3	5 208	3	60 1	1750 SPEC	CIFIED BY STR	UCTURAL V	WEIL	1413-575	SOUTH ELEV	ATOR PIT	PUMP SHALL INCLU OIL/WATER	DE INTEGRATED SENSOR			SP-1 SP-2		4 FT 13 FT 3 FT 29 FT	15 FT 35 FT
SP- 3	s	JBMERSIBLE ELEVAT	OR SUMP PUMP	2"	50 1	115	1	60 0.5	1750 SPEC	CIFIED BY STRI		WEIL	1413-538	NORTH ELE	ATORPIT	PUMP SHALL INCLU OIL/WATER	DE INTEGRATED SENSOR			SP-3	an	2 FT 12 FT	14 FT
DBP-1	co	DOMESTIC W NSTANT PRESSURE	ATER BOOSTER PUMP	1-1/4"	20 3	208	1	60 1/3	3500	NA	FRANKL / LITT	LIN ELECTRIC TLE GIANT	INLINE 400	LEVE MAINTENANC	.01 ERM - M103						NSI code section A17.	shall remove water at a ra '.1	ate of 50 GPM per
																IVTLIDE	LINIT SC	HEDULE					
TAG		TYPE		STORAGE VOLU	ELECTRIC WATER HI		ELECTRICAL	MA MA	NUFACTURER	MODEL NO.	NOTES				UTAL	IXTURE	UNIT 3C	HEDULE			Poostor Dur	np Pressure Calcu	ulation
WHE- 1	Т	NK TYPE ELECTRIC		20 GALLONS		4157-	W PH 500 1	HZ		EJCT 20	*	5	Job Name:	12	men Gree Line	The state of the s	Job Number:		DOT: D-7-135B		Flow Rate	58	gpm
									Į.				Job Location		4 N Damen Av ixture	1	Low Flow Fixt		Totals		Incomming Water Pre Meter Pressure Lo		800
													Fixture	гуре	Count	Total	Cold Ho	A Legislating Spring (A)	Hot Total	Bac	ckflow Preventer Pres	50.000	psi psi
													Water Close Lavatory	et (FV)	1 6,	/4 6 1 1	10/5 1.5 1.	10/5 10 .5 2 1.5	1.5 2	Height of	Longest Horizontal Highest & Most Dem	CONTRACTOR OF THE CONTRACTOR O	o ft o ft
													Mop Basin Water Coole	ar#	1 :	3 3 .5 0.5	2.25 2.2 0.25	1 sammanan 11 saw-s-mu	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Friction Pressure L	Loss 4	psi/100ft
													Hose Bibb		1		3	0.25 0.25 3 3	3		re Required at Most F Remote Fixture	2 10	152
													Floor/Trenc	h Drain	27	2 54 Total		<u> </u>		F	Friction Loss Due to F	ittings 25	% of total leng
																DFU nitary 64.5		Total WSFUs 17	3.75 18.25	Suction Pre	SCOURS-ULLIVERS		0 psi
																e Size 4"		Pipe Sizes 2"	3/4" 2"	Piping Frict	sure Required tion Loss		psi psi
																newson and a state of the state		31203 2	Total Building	Friction Los Total Frictio	ss Due to Fittings	0.9 4.6	
																			GPM 35 Water	TDH		32.8	.8 psi
													Note: Large	r/Smaller					FPS 3.4	Total Boost Boost of To	t Required otal Dynamic Head (T	7.8 TDH) Required 18.0	g psi .0 FT
													used based regarding Lo Fixtures.	on Y/N									
2		3		5	6		7		8	ī	9	\		11	12		13	L	L15	16	- L	L	19
MB MB	_										₩)L -	100	JSE			WILL	ē.	CDE	3T	154 N DAMEI	N AVE - DAME	N GREEN LINE S	TATION
														The Wrigley Building 410 North Michigan Suite 1600	Ave.			CHICAGO DEPA			BING SCHEDULES		

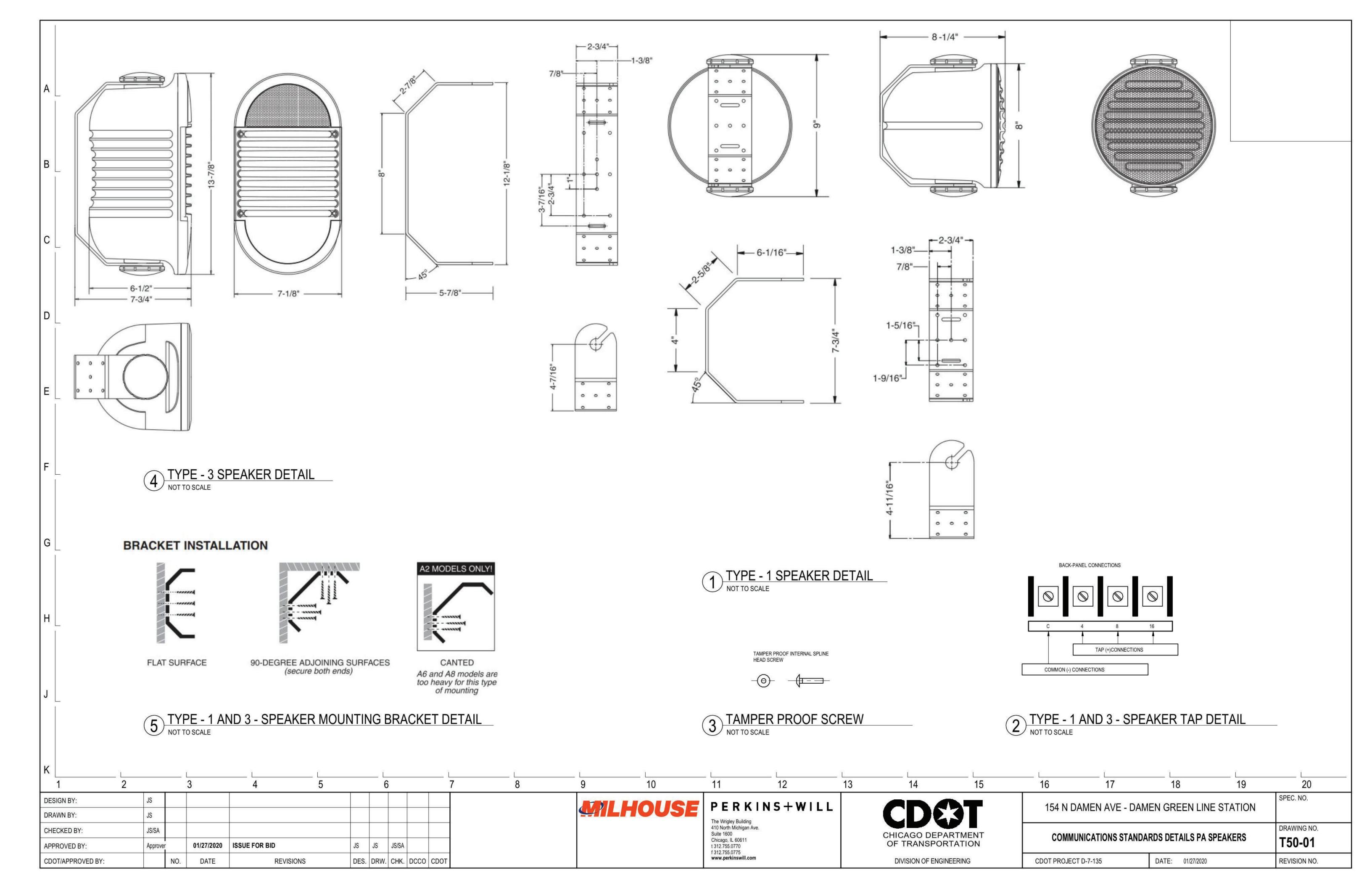


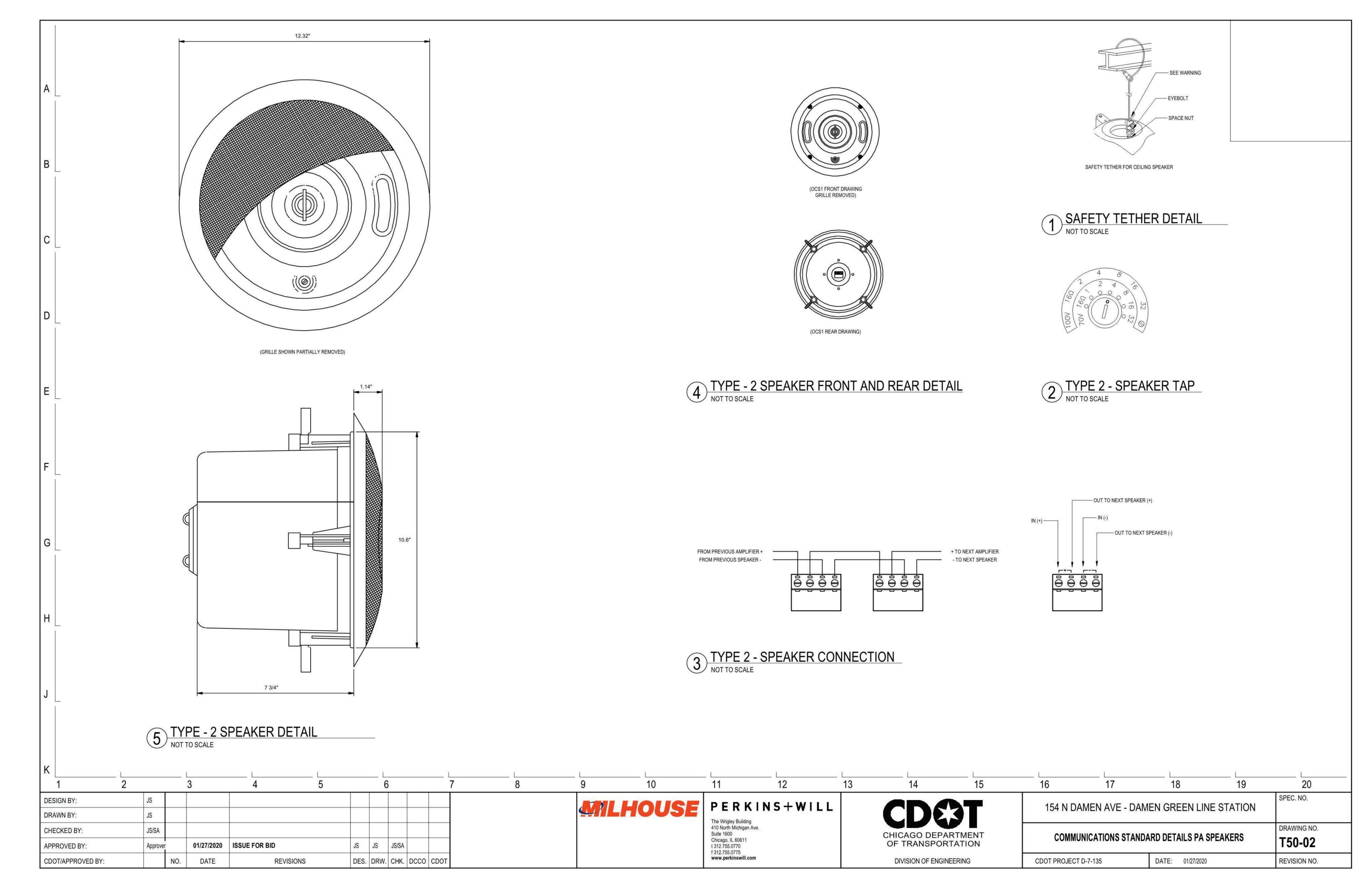


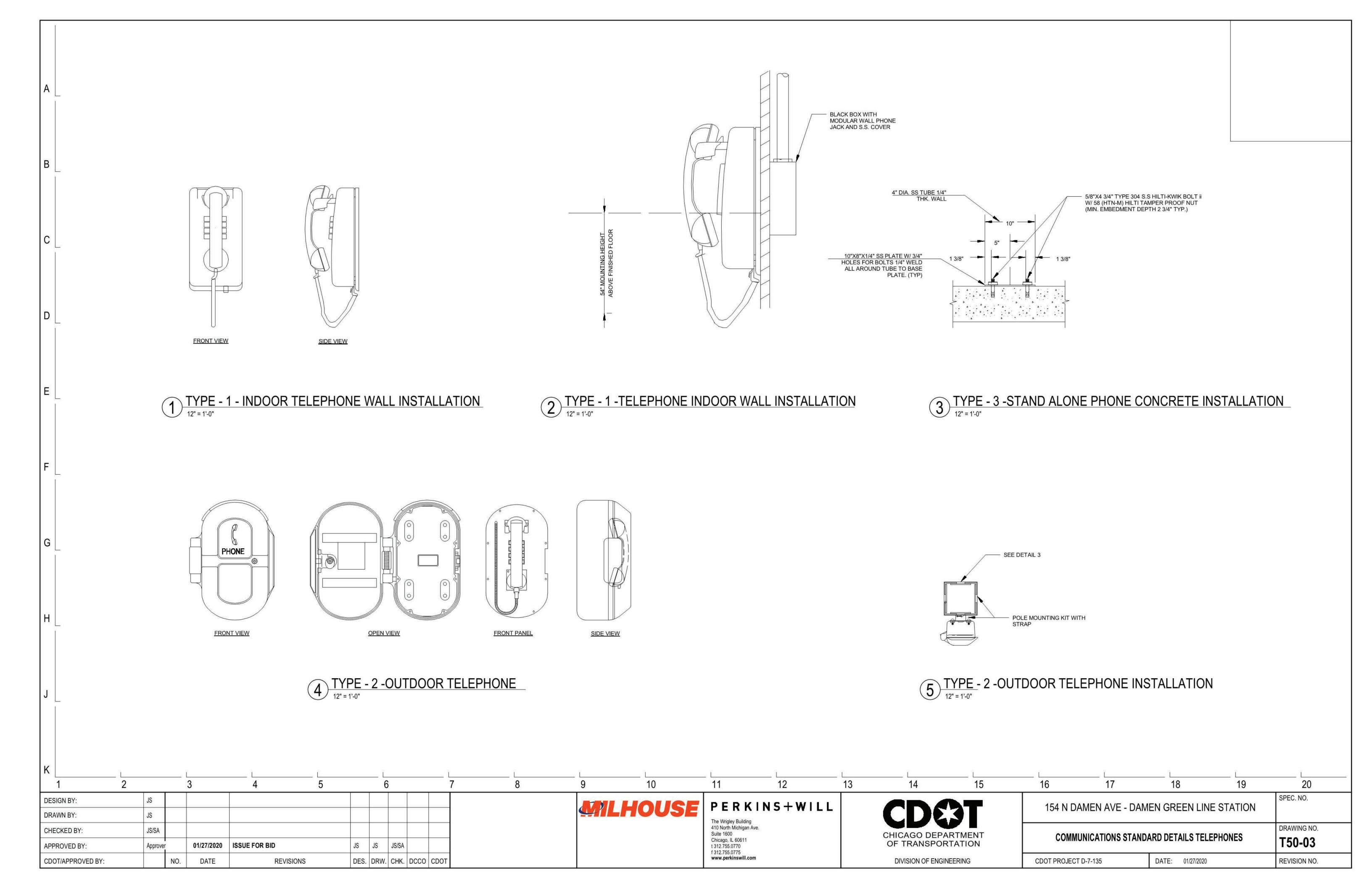


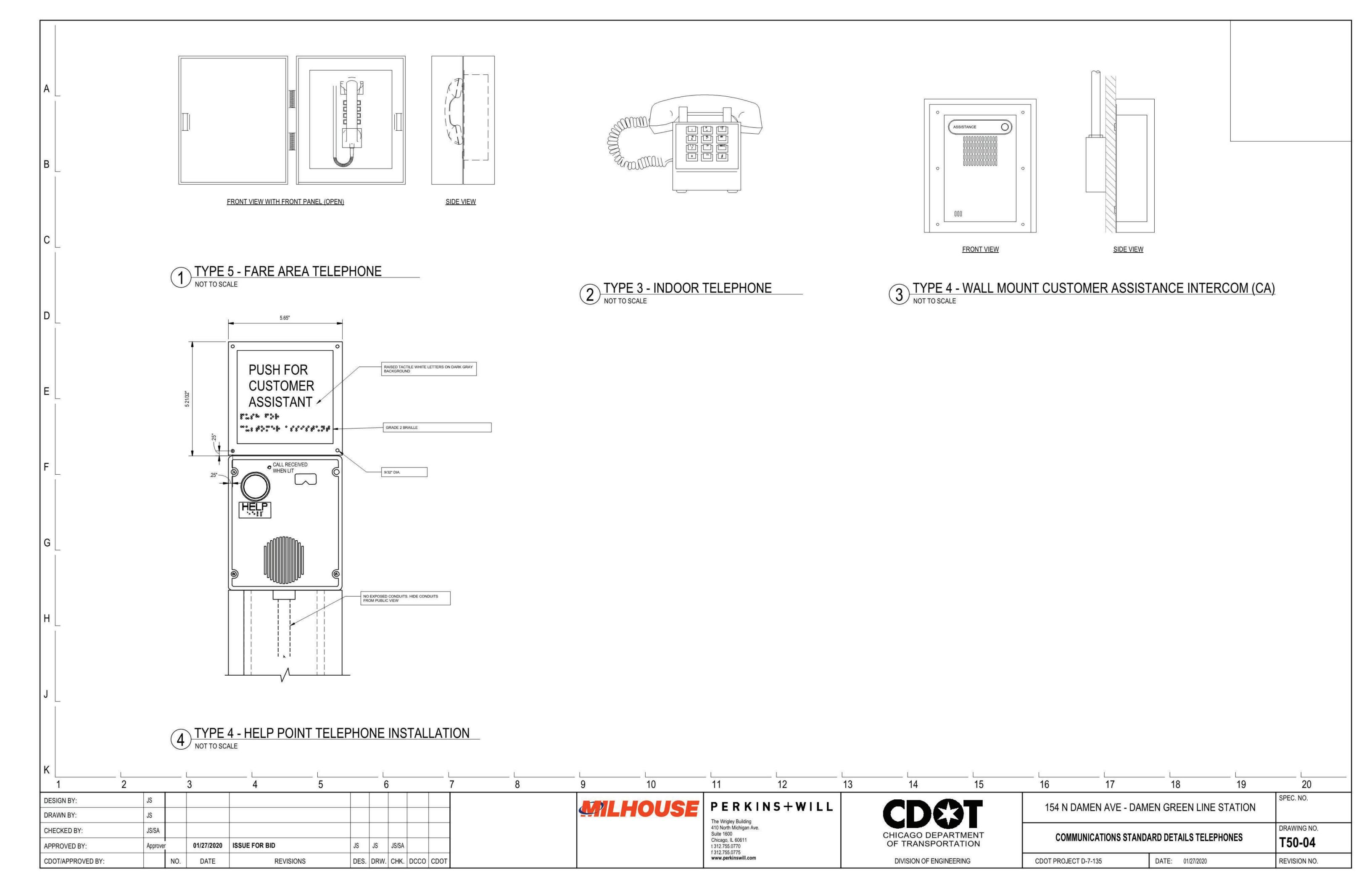


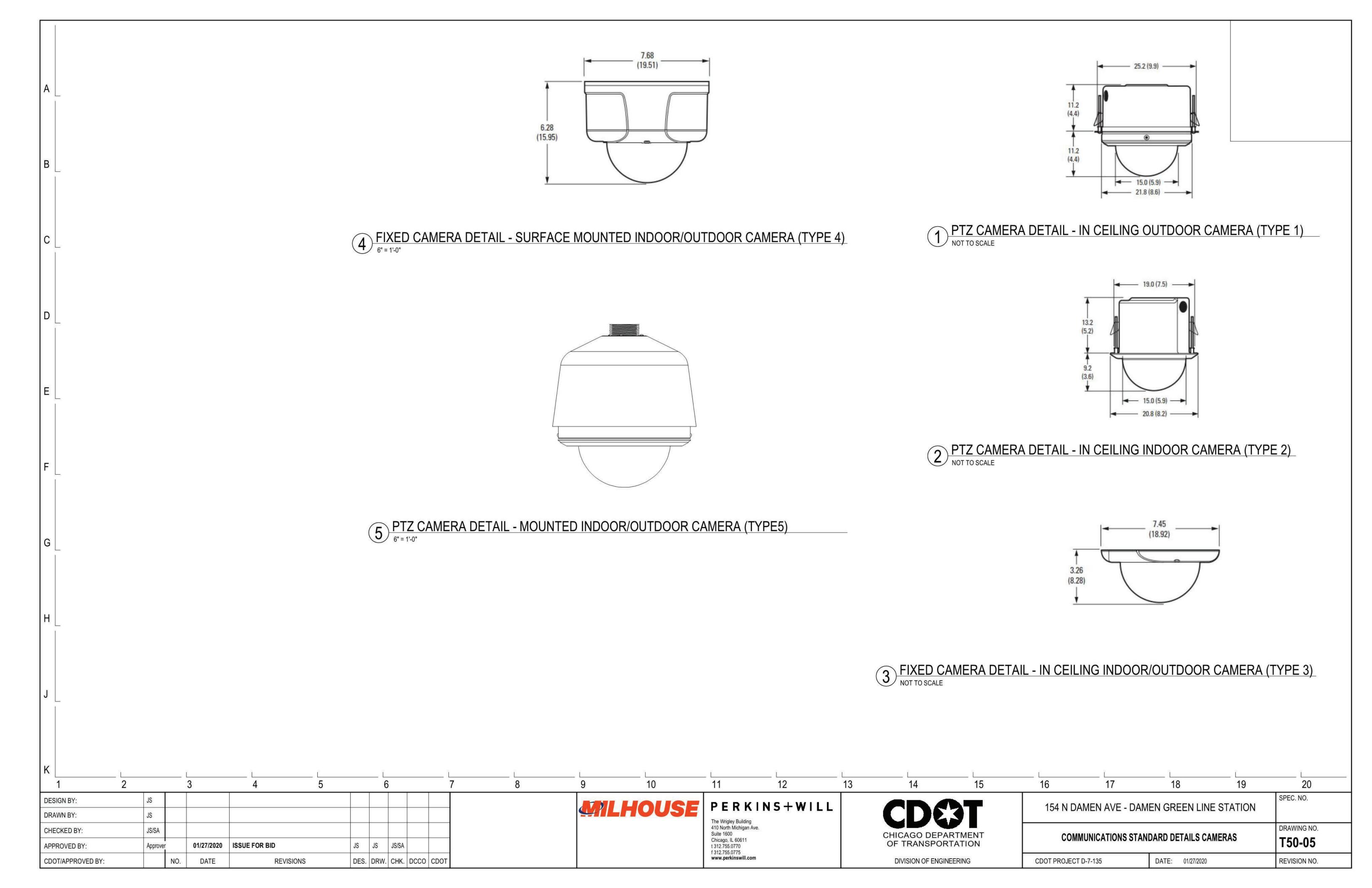


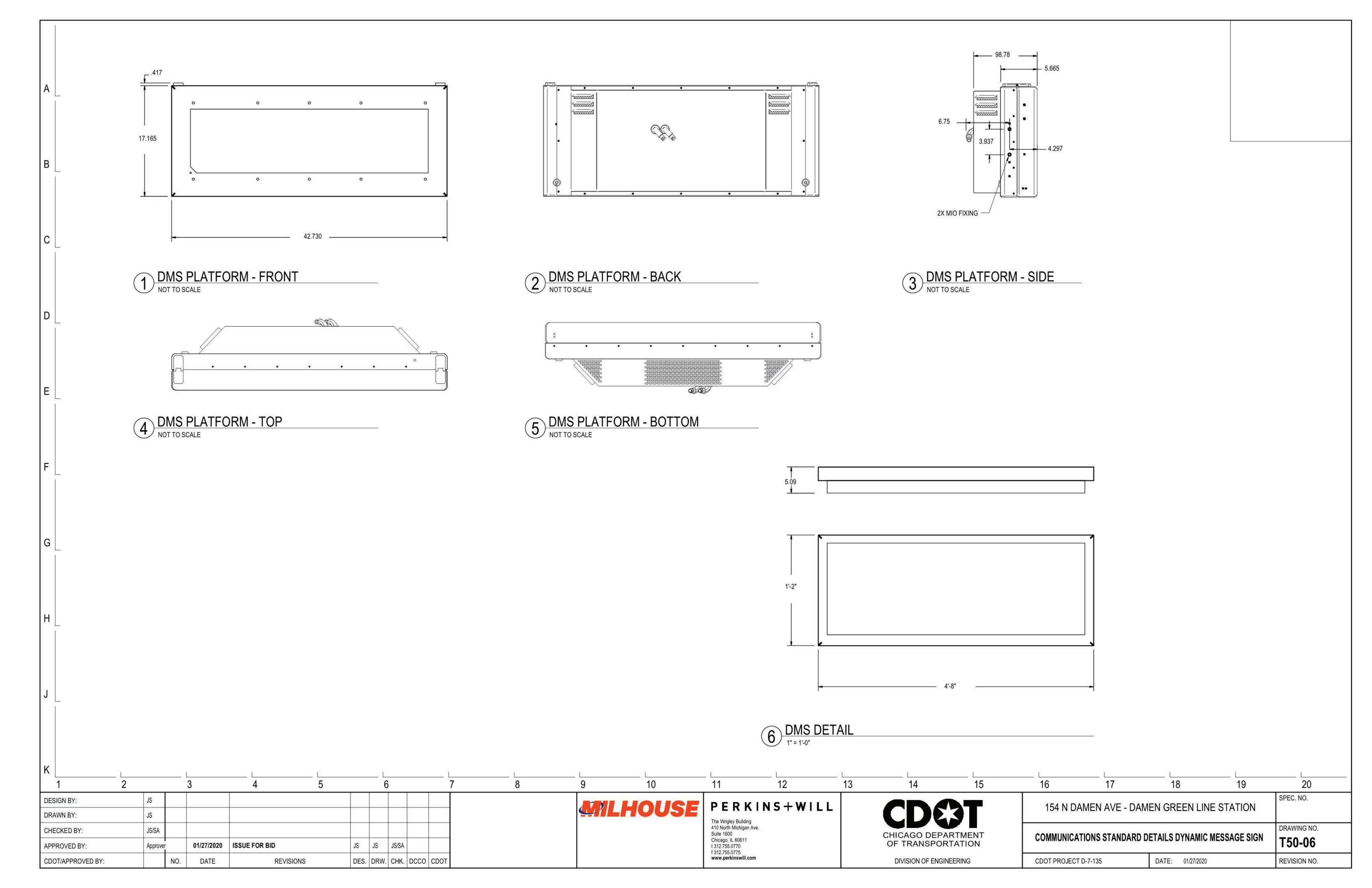


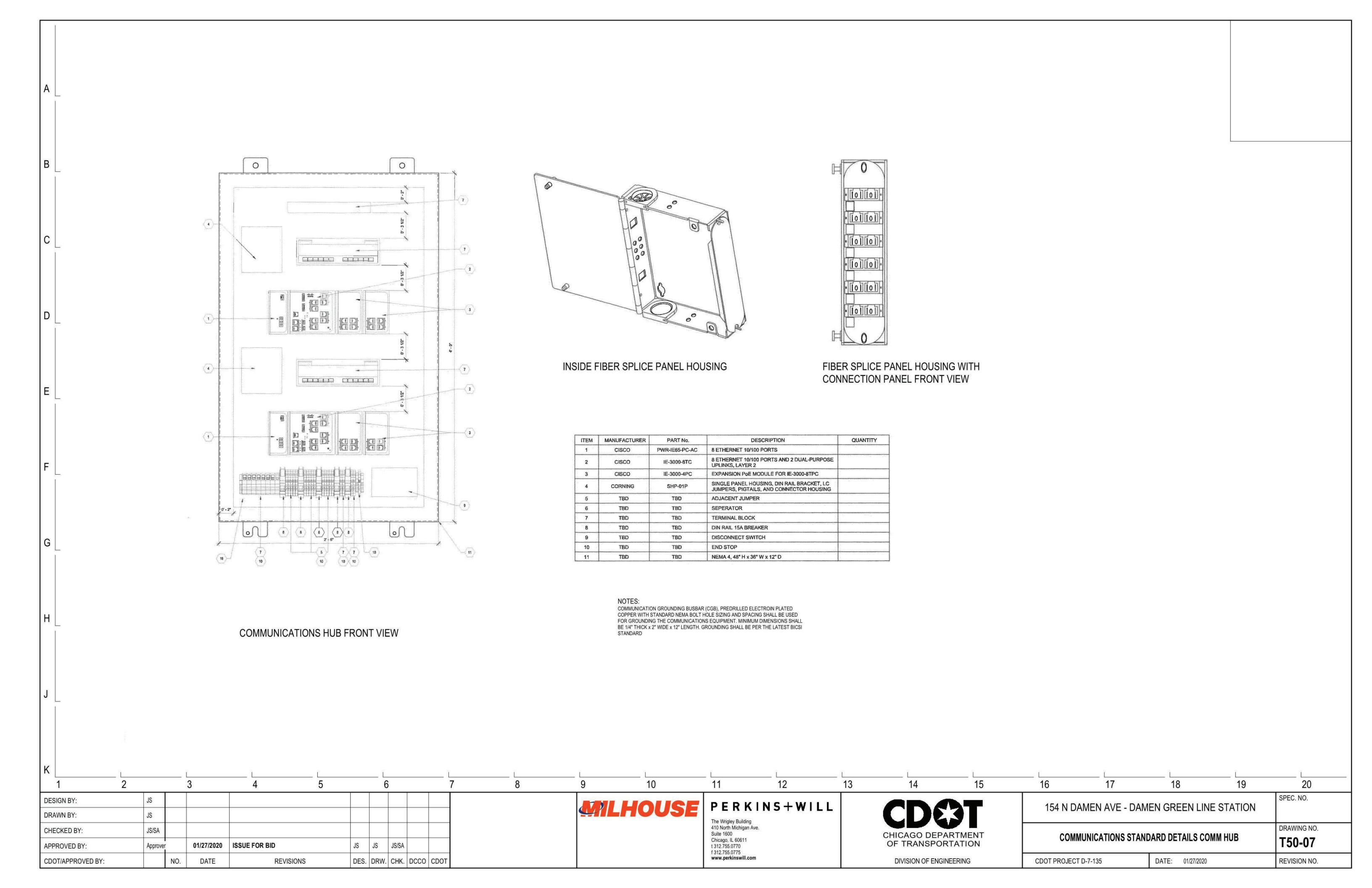


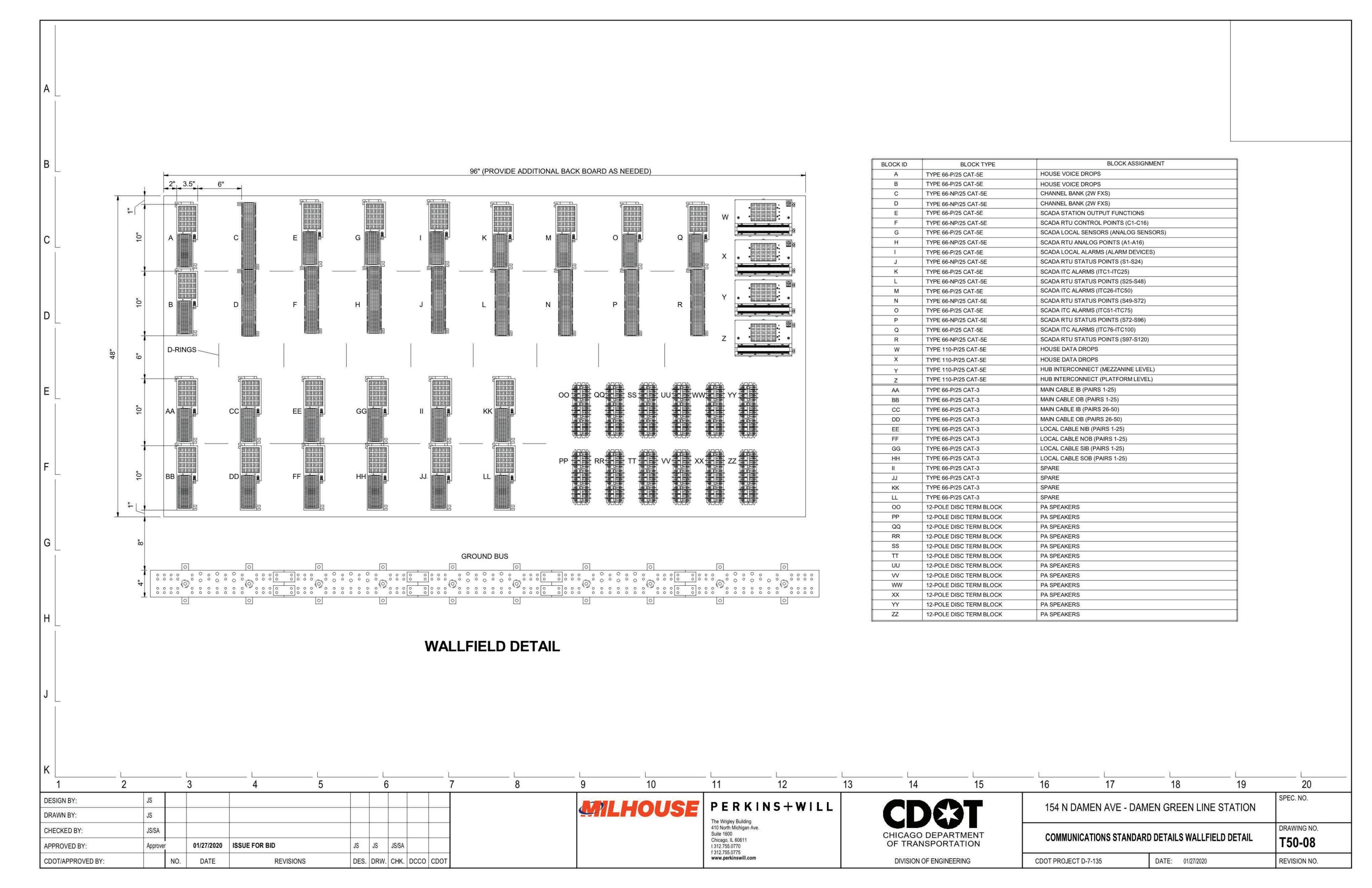


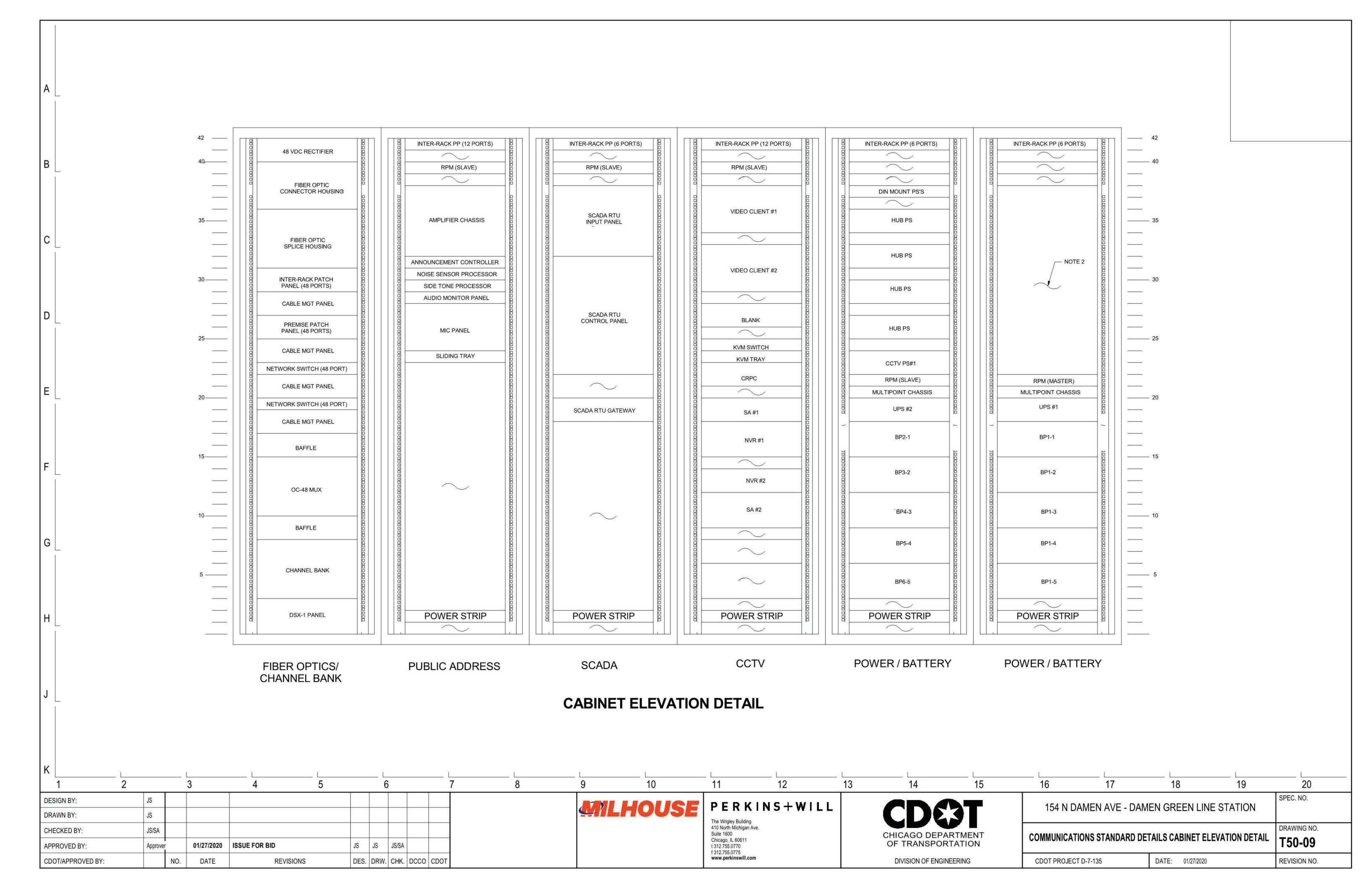


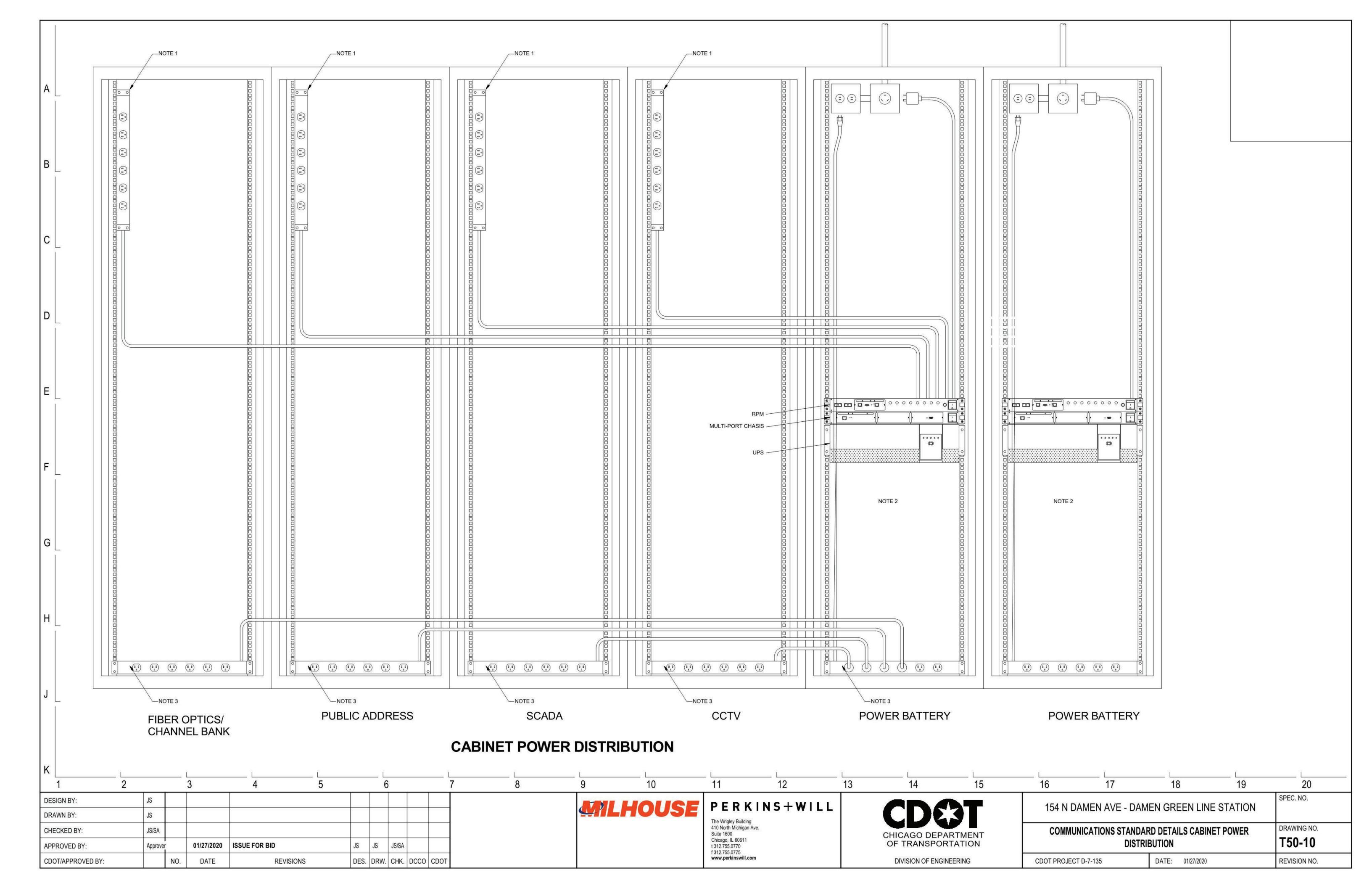


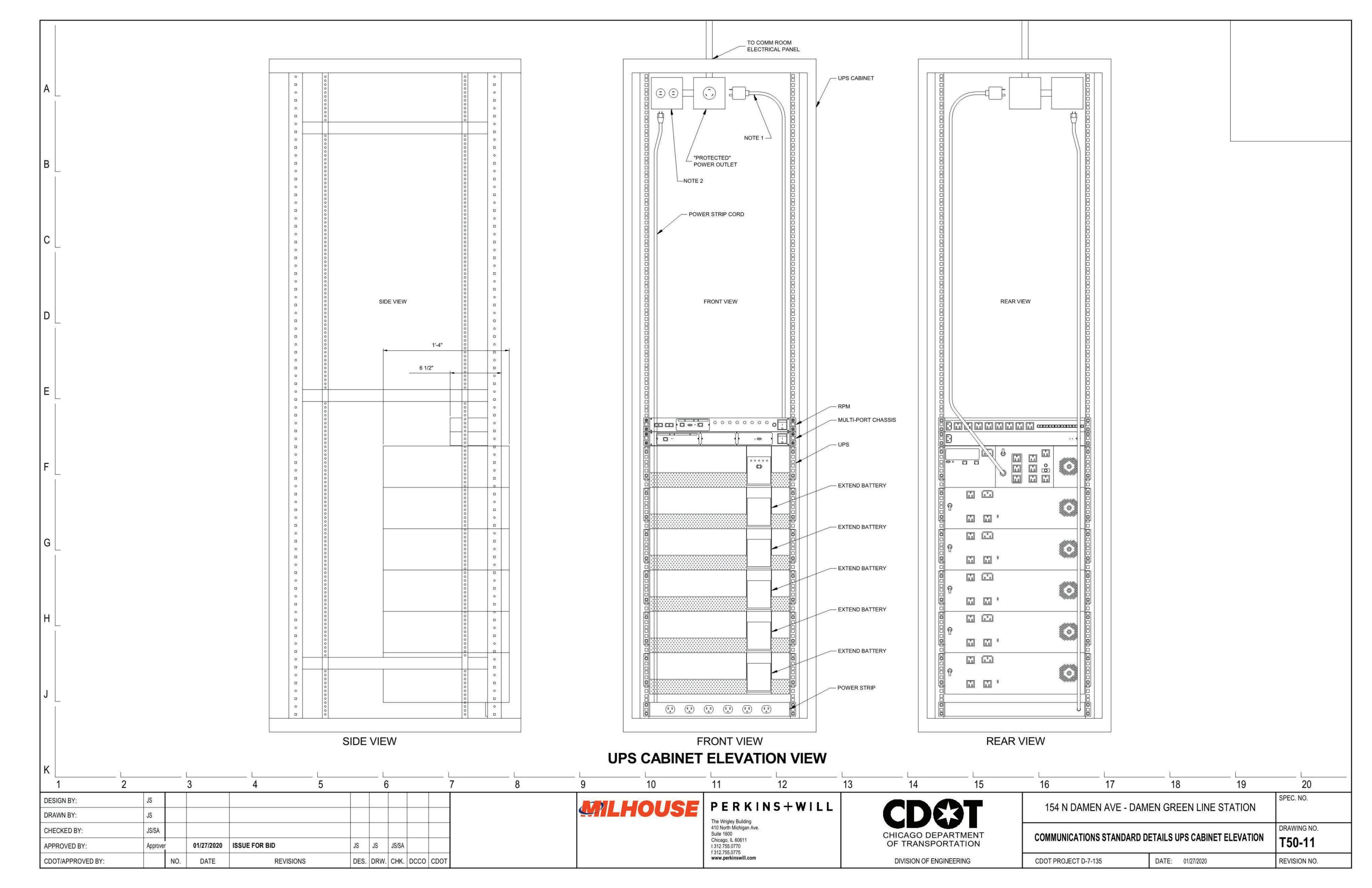


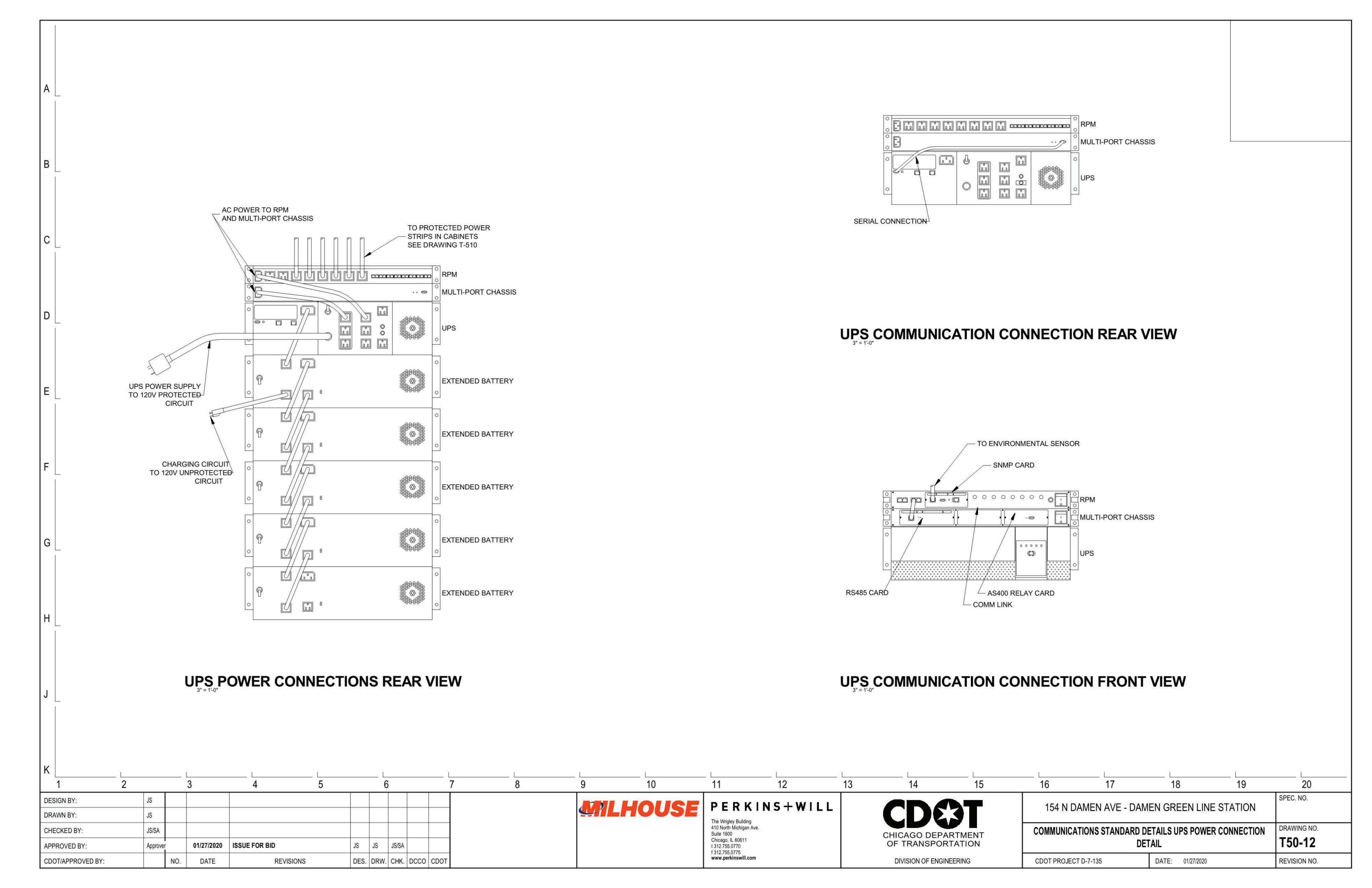


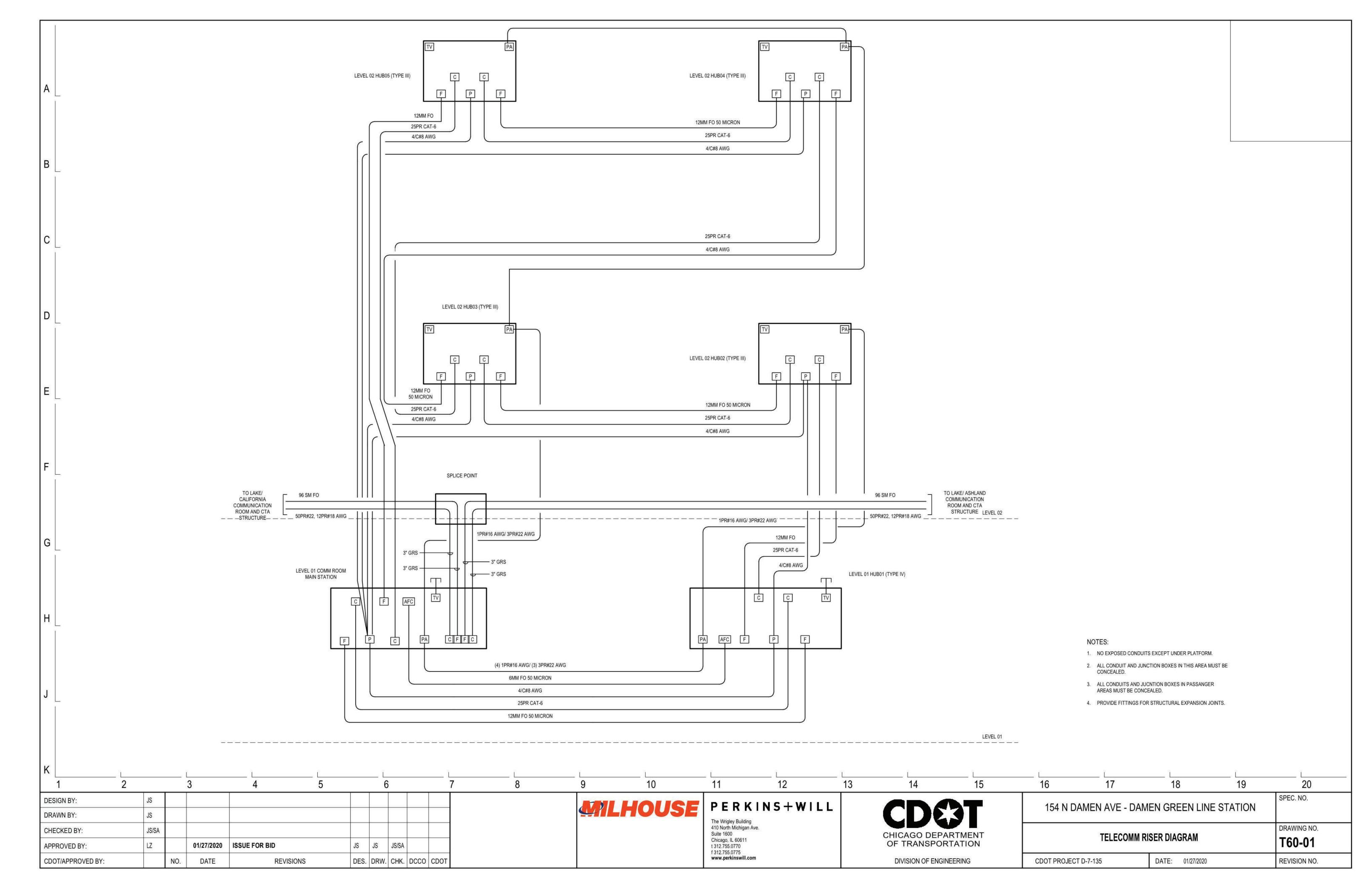


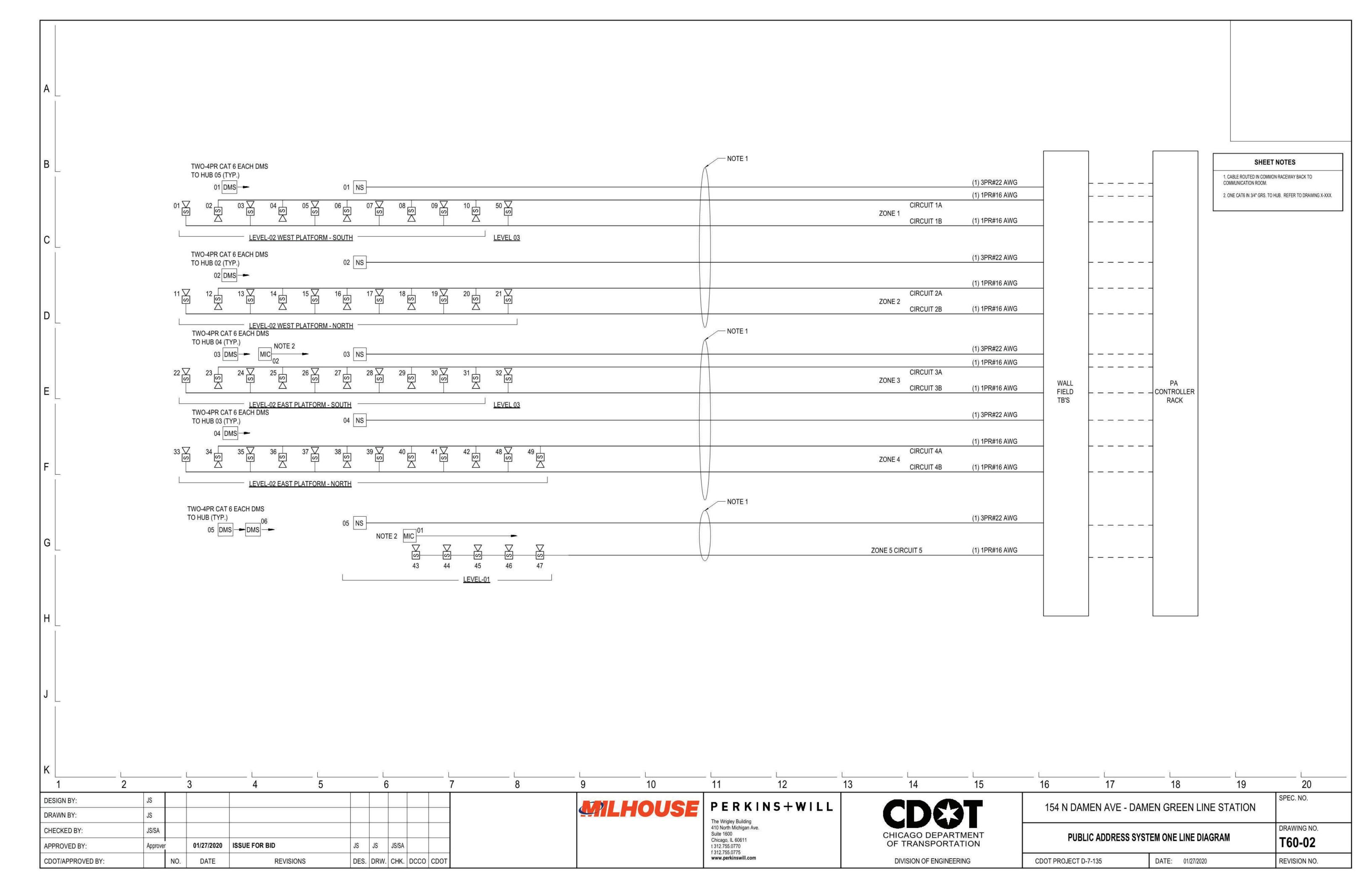


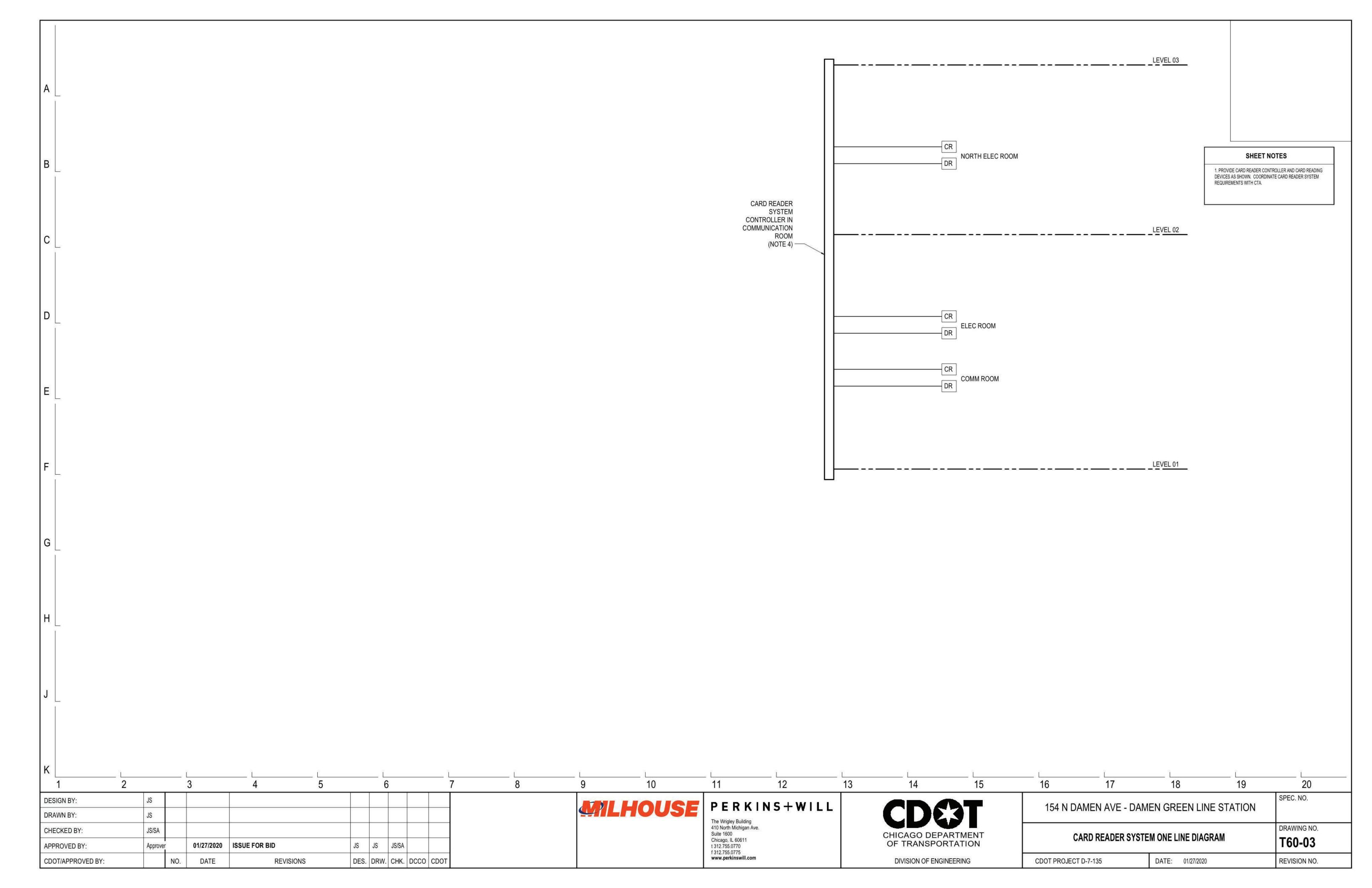


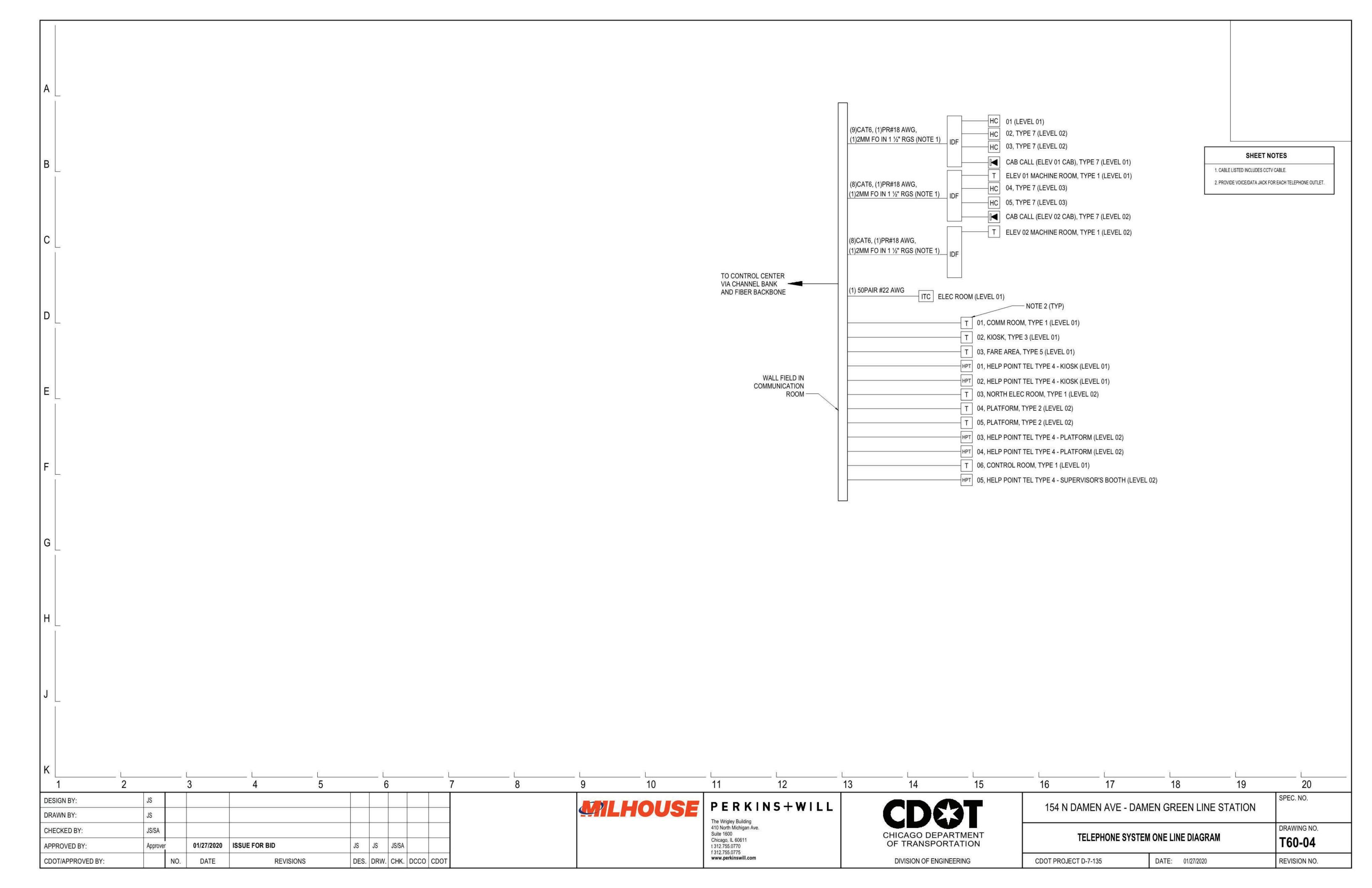


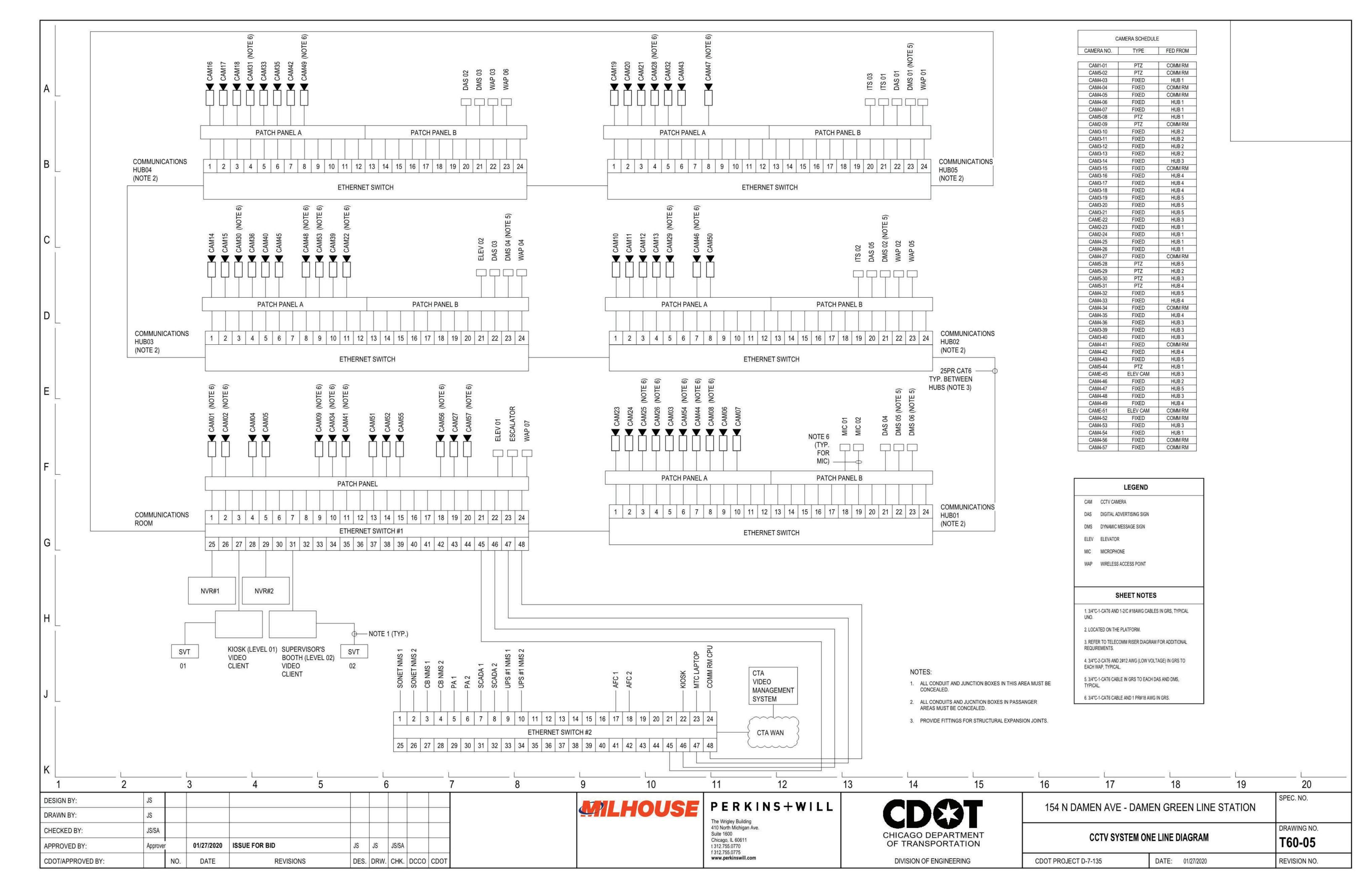


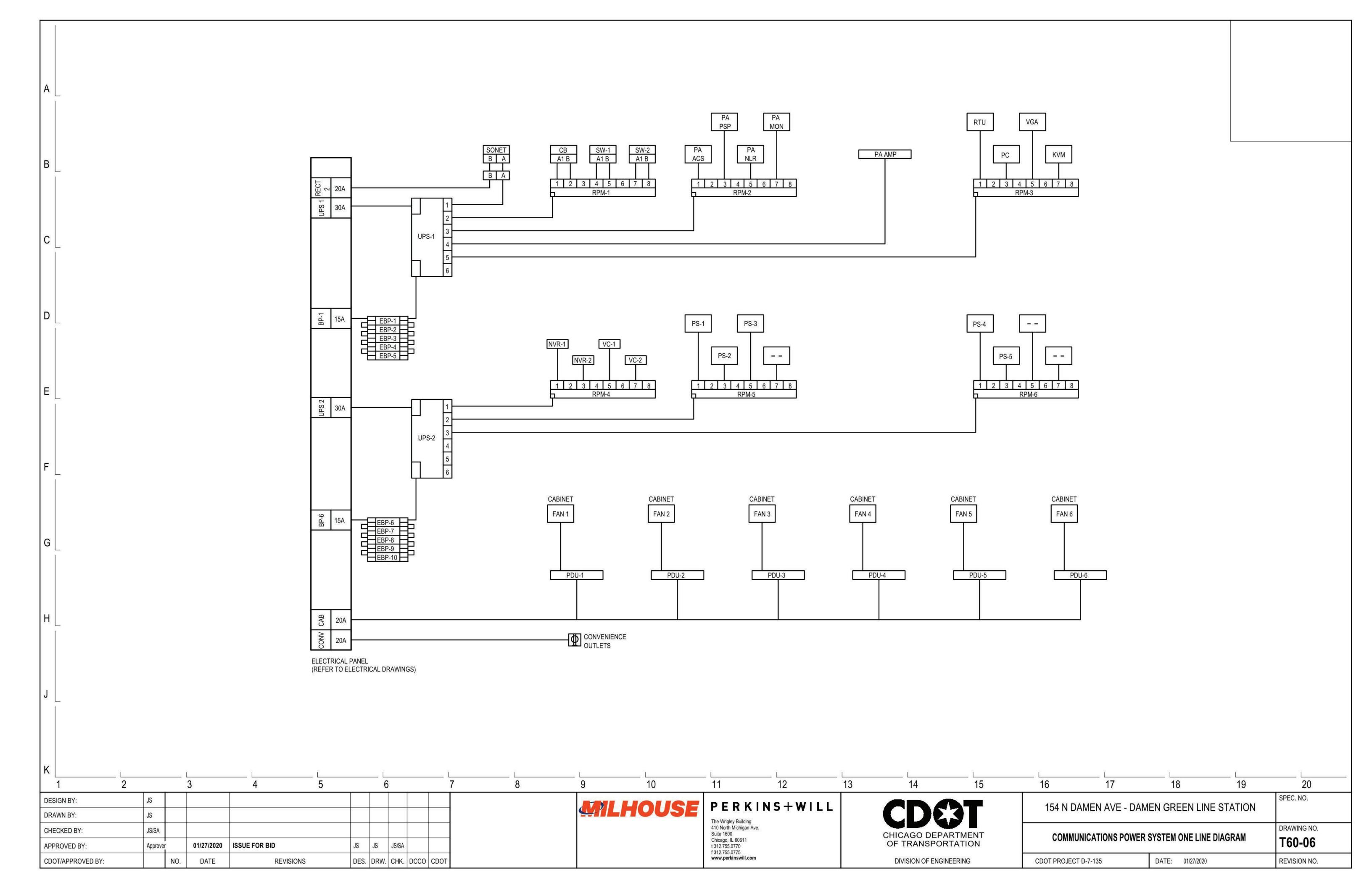


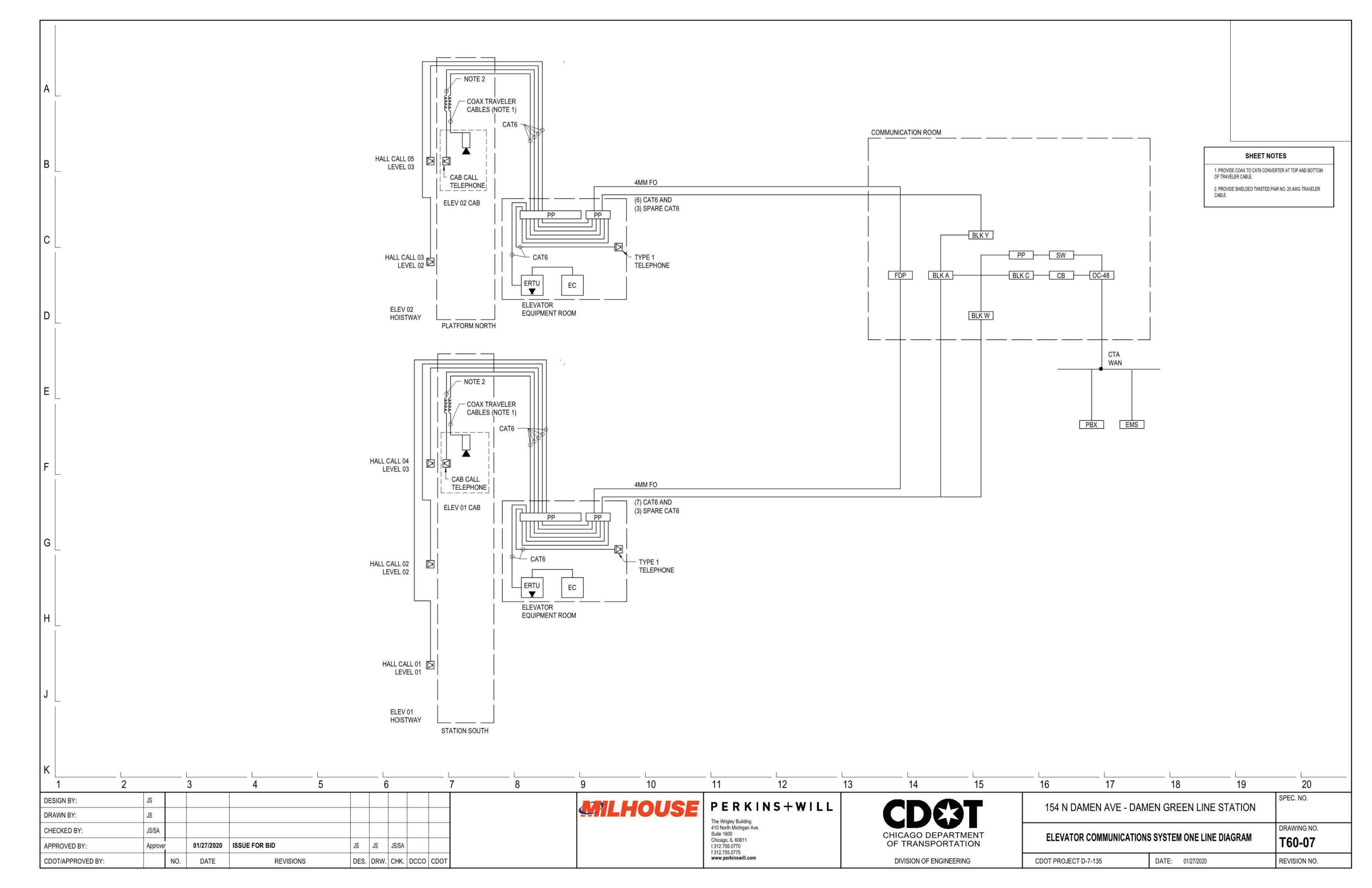


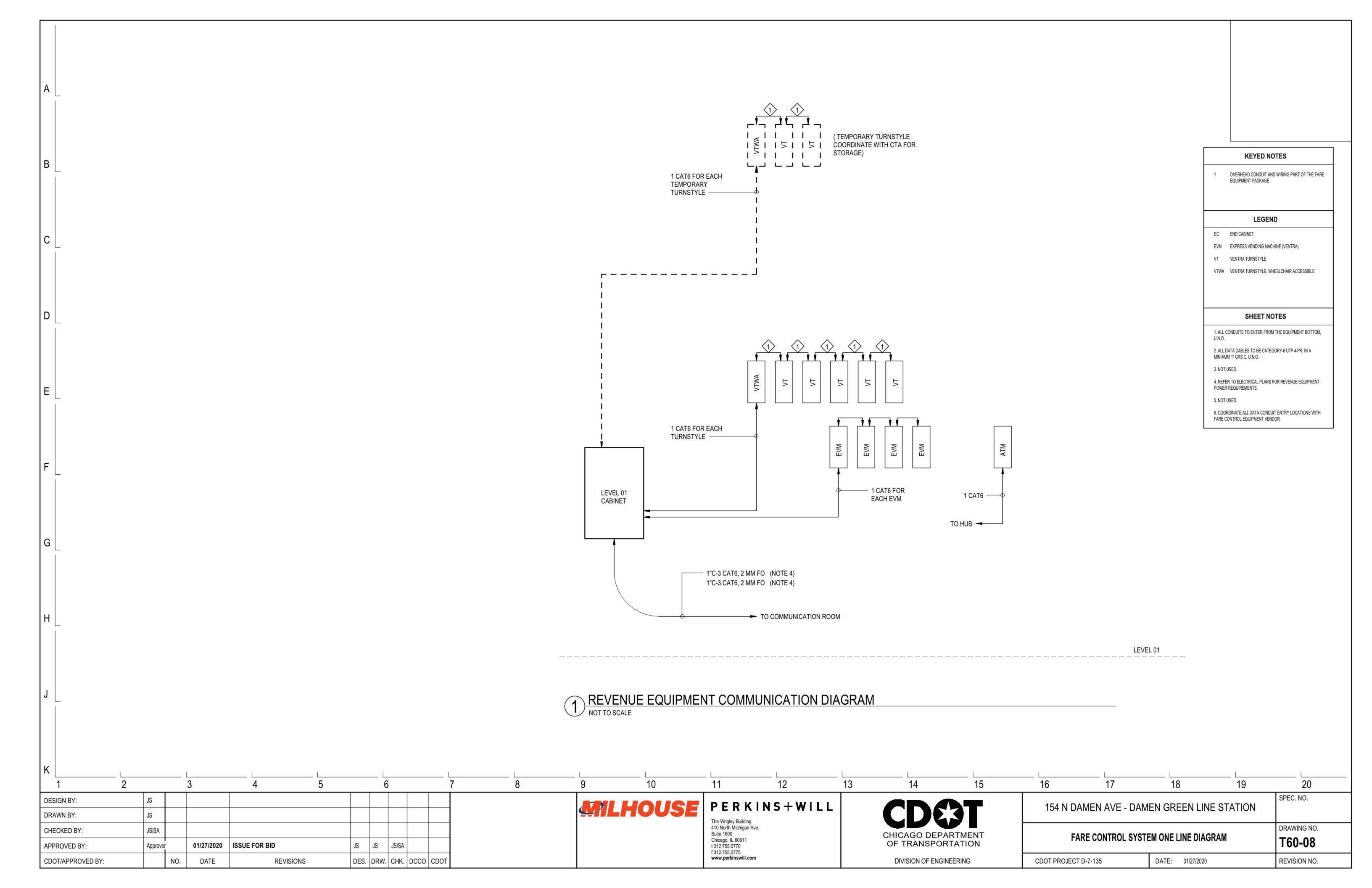


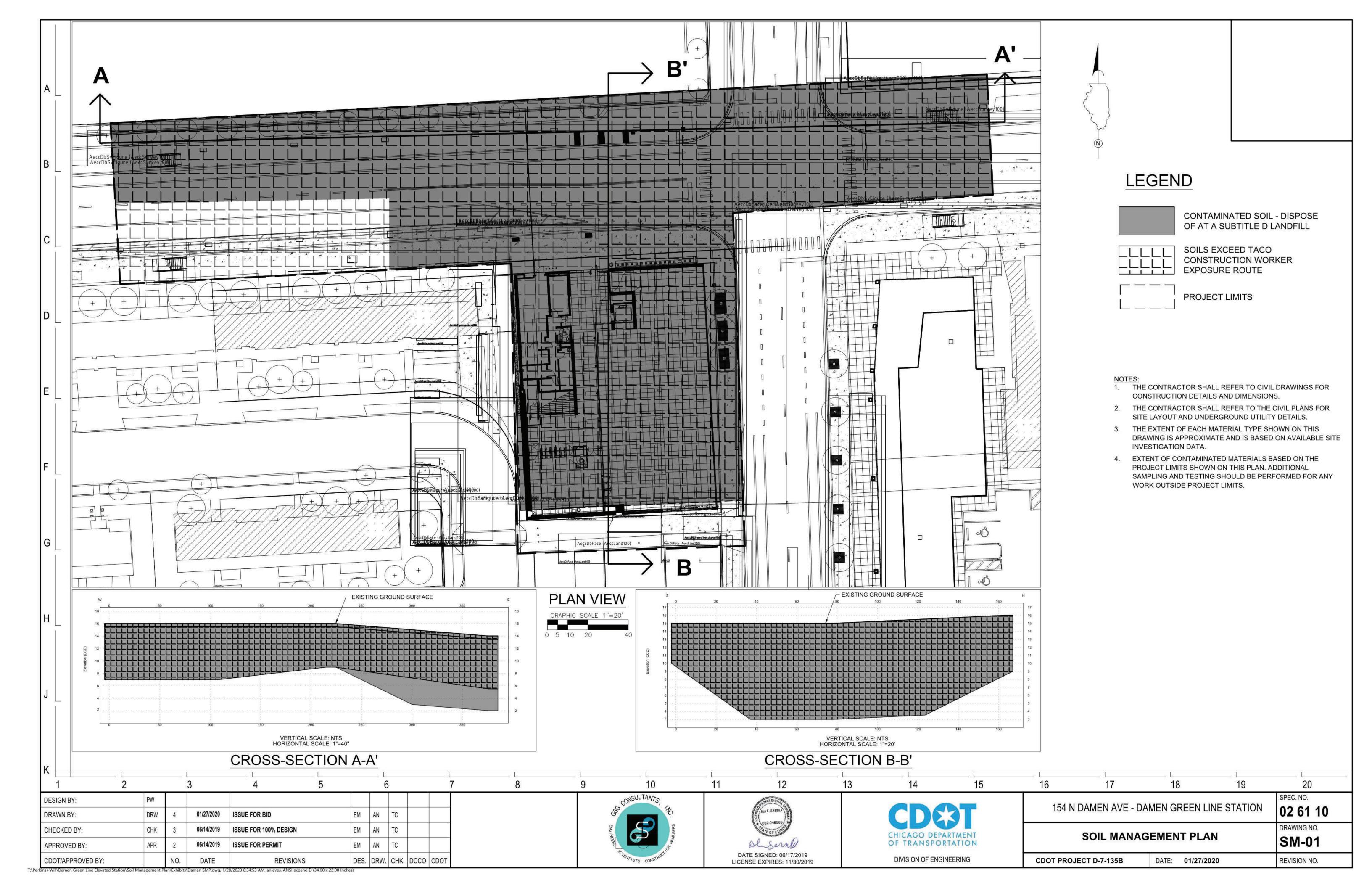














CONTRACTOR SHALL PROVIDE ALL INFORMATION AS SHOWN.

CONSTRUCTION

CHICAGO TRANSIT cta **AUTHORITY** ENGINEERING

SENSITIVE SECURITY INFORMATION

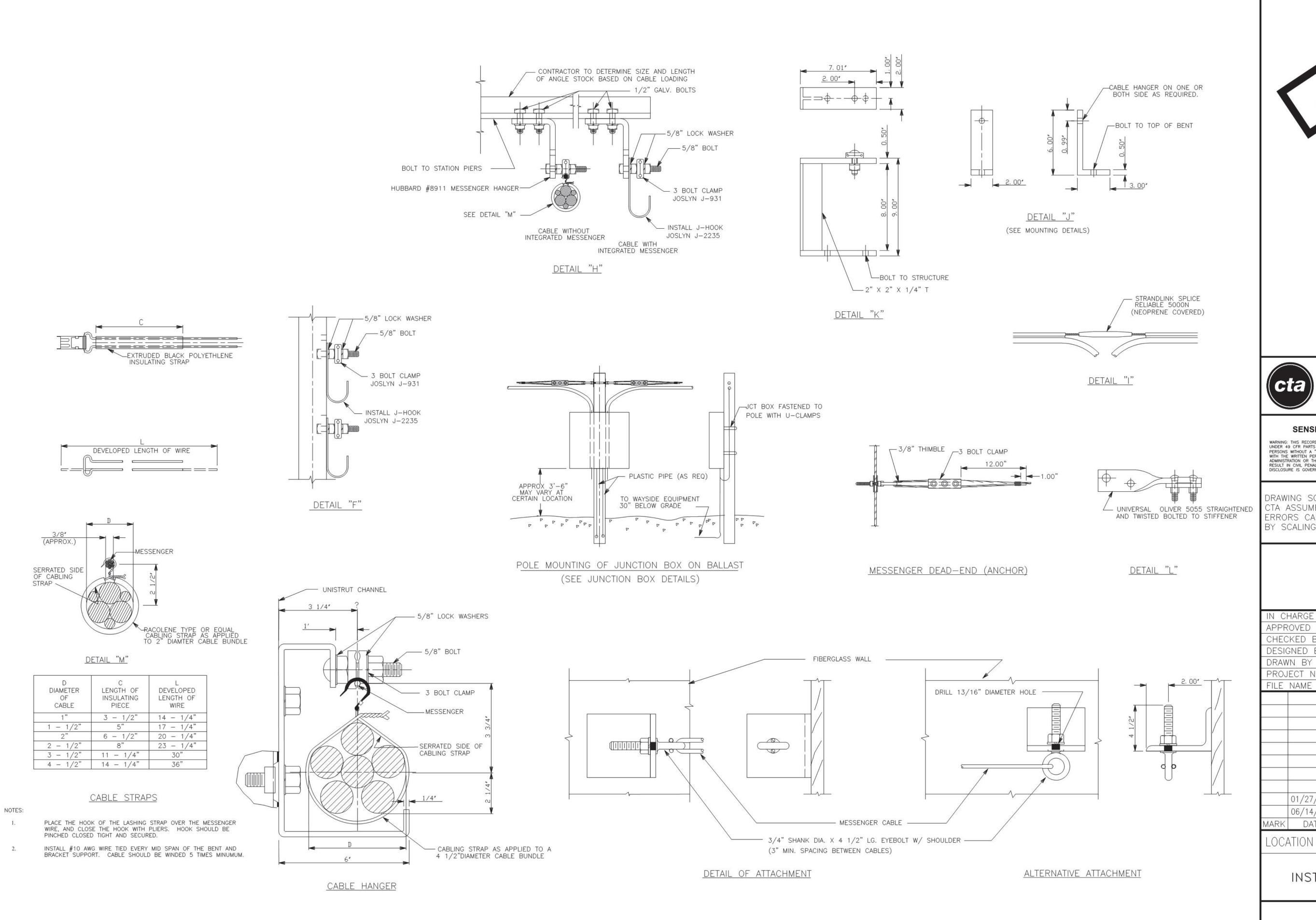
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CDOT GREEN LINE DAMEN STATION LAKE STREET

N CHARGE	J. HARPER						
PPROVED BY	E. MCGRAW						
HECKED BY	J. MITCHELL						
ESIGNED BY	CTA						
RAWN BY	J. MITCHELL						
ROJECT NO	PROJECT D-7-135B						
ILE NAME							
/ /							
01/27/2020	ISSUE FOR BID						
06/14/2019	100% DESIGN						
ARK DATE	DESCRIPTION						
OCATION IDEI	NTIFIER: LK-ROW						

SIGNAL SYMBOLS - LEGEND GENERAL NOTES







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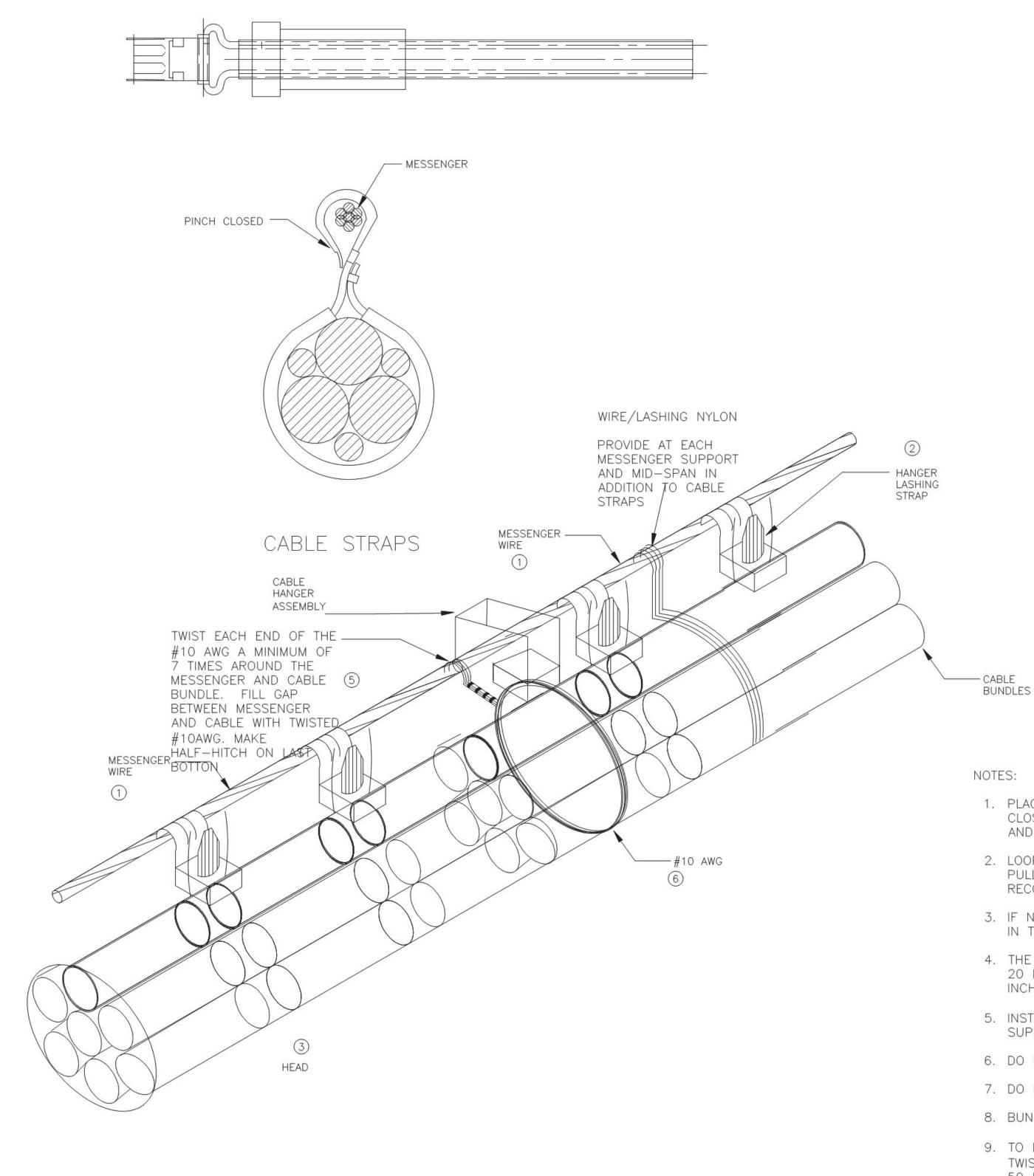
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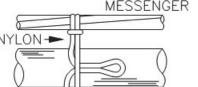
CDOT GREEN LINE DAMEN STATION LAKE STREET

IN CH	HARGE	J. HARPER						
APPR	OVED BY	E. MCGRAW						
CHEC	KED BY	J. MITCHELL						
DESIG	SNED BY	CTA						
DRAW	N BY	J. MITCHELL						
PROJ	ECT NO	PROJECT D-7-135B						
FILE	NAME							
	01/27/2020	ISSUE FOR BID						
	06/14/2019	100% DESIGN						
MARK	DATE	DESCRIPTION						

LOCATION IDENTIFIER. LN-ROW

MESSENGER INSTALLATION DETAILS 1 OF 2





SEE NOTE 1

NOTE 1



STEP 2

STEP 3

BUTTON

STEP 4

LOOP

STEP 5

HITCH NYLON AROUND MESSENGER, LOOP SHORT END AND LAY AGAINST CABLE

TAKE 6 TURNS AROUND CABLE AND MESSENGER

BUTTON TO FILL GAP

BETWEEN MESSENGER

AND CABLE. MAKE HALF-HITCH ON LAST

FEED END FROM

HALH-HITCH THRU

DRAW LOOP IN UNDER

TIGHT AND LOCKS IN

CENTER OR TIE. TRIM

END OF NYLON CLOSE

TIE DIAGONALLY

TO SERVE

FOR CABLE DIAMETERS UP TO

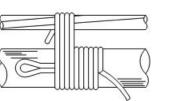
AND INCLUDING 1"

ACROSS CABLE SO

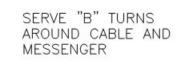
THAT SAME BITES



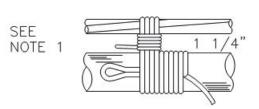
LOOP SHORT END OF NYLON AGAINST CABLE SERVE WITH "A" TURNS OF NYLON



STEP 2

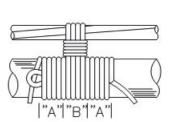






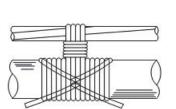
STEP 3

BUTTON TO FILL GAP BETWEEN MESSENGER AND CABLE. MAKE HALF-HITCH ON LAST BUTTON



STEP 4

SERVE "A" TURNS AROUND CABLE ONLY. DRAW END OF NYLON THRU LOOP



STEP 5

DRAW LOOP IN UNDER TIE DIAGONALLY ACROSS CABLE SO THAT SAME BITES TIGHT AND LOCKS IN CENTER OR TIE. TRIM END OF NYLON CLOSE TO SERVE

FOR CABLE DIAMETERS OVER 1"

	R OF NYLOI RIOUS CABI	
DIAM OF CABLE	"A" TURNS	"B" TURNS
1" TO 3"	6	6
3" TO 4"	8	6
4" TO 5"	10	6
5" TO 6"	12	6

TYPICAL NYLON CABLE TIE

1. PLACE THE HOOK OF THE LASHING STRAP OVER THE MESSENGER WIRE, AND CLOSE THE HOOK WITH PLIERS. HOOK SHOULD BE PINCHED CLOSED TIGHT AND SECURED.

MAKE LONGER AND PROVIDE ADDITIONAL HITCHES

FOR NYLON X-TIES FOR HOLDING CABLES AT

ENTRANCES TO EQUIPMENT

- 2. LOOP THE LASHING STRAP AROUND THE CABLE, THROUGH THE HEAD, AND PULL UP TO DESIRED TIGHTNESS. DO NOT EXCEED CABLE MAXIMUM RECOMMENDED LOAD.
- 3. IF NECESSARY, RELEASE THE STRAP BY PULLING BACK RELEASE TAB LOCATION IN THE HEAD.
- 4. THE MAX CONTINUOUS STATIC LOADING FOR THE HANGER LASHING STRAP IS 20 LBS. PER STRAP. SPACE STRAPS AS NEEDED NOT TO EXCEED 15 INCHES.
- 5. INSTALL #10 AWG WIRE TIED EVERY MID SPAN OF THE BENT AND BRACKET SUPPORT. CABLE SHOULD BE WOUND 7 TIMES MINUMUM.
- 6. DO NOT EXCEED CABLE MINIMUM BEND RADIUS.
- 7. DO NOT STRESS CABLE OR TIGHTLY CINCHED CABLE BUNDLES.
- 8. BUNDLES SHOULD BE SPACED 3-5 INCHES APART
- 9. TO ENSURE PROPER TENSIONING, STRAIGHT RUNS OF CABLE (NO TURNS, DIPS, TWISTS OR RISES) INSTALL A TENSION ADJUSTMENT FITTING AT LEAST EVERY 50 FEET
- 10. RUNS WITH BENDS OR CORNERS SHOULD HAVE A TENSION ADJUSTMENT FITTING AT LEAST EVERY 10 FEET
- 11. ALL CABLE SHALL BE RUN NEATLY, PARALLEL, WITHIN INDUSTRY STANDARDS AND NO SPIRALING.
- 12. MAXIMUM BUNDLE SIZE SHALL NOT EXCEED 6 INCHES.



CONSTRUCTION

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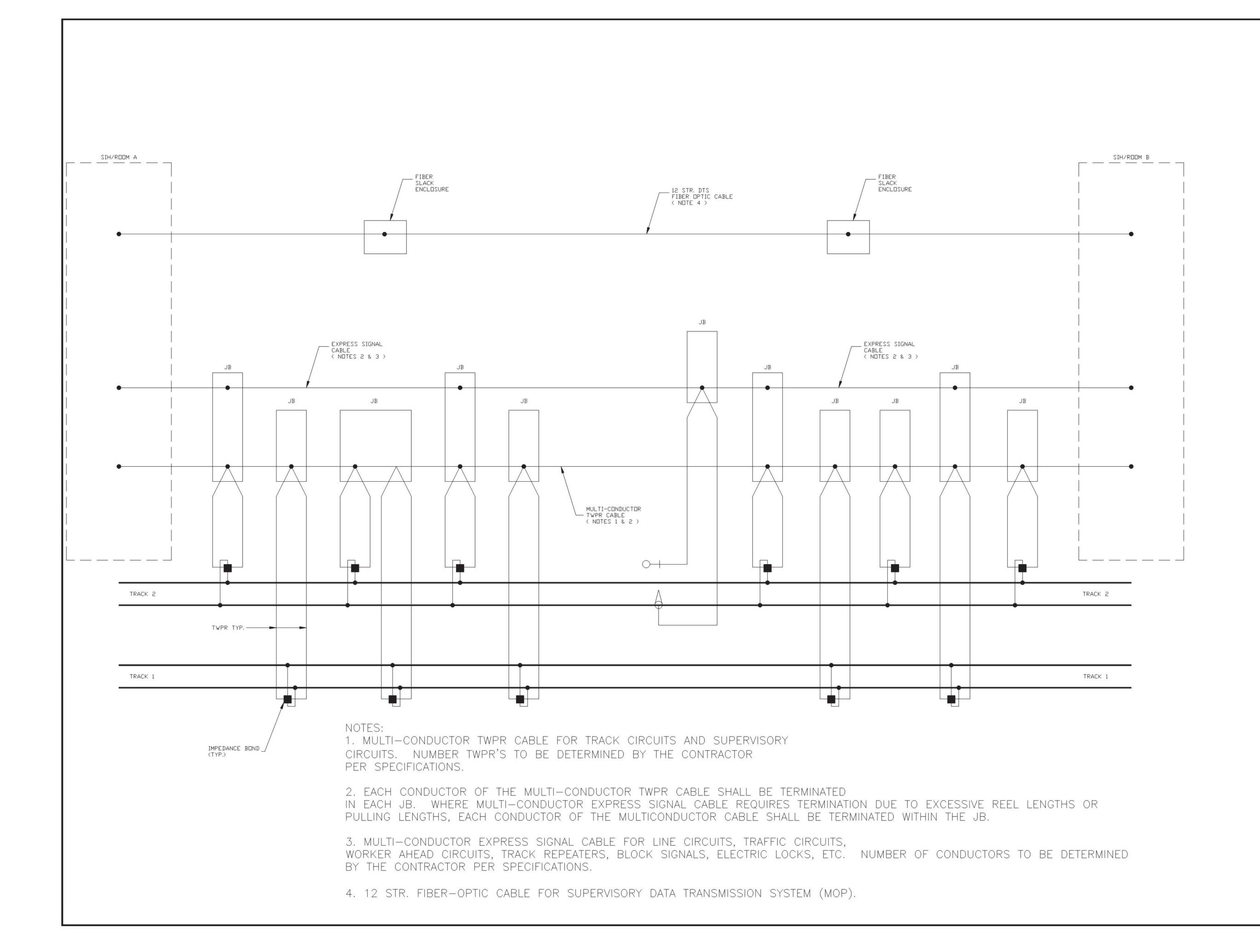
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> CDOT GREEN LINE DAMEN STATION LAKE STREET

IN C	HARGE	J. HARPER
APPR	OVED BY	E. MCGRAW
CHEC	KED BY	J. MITCHELL
DESIG	GNED BY	CTA
DRAW	/N BY	J. MITCHELL
PROJ	ECT NO	PROJECT D-7-135B
FILE	NAME	
	01/27/2020	ISSUE FOR BID
	06/14/2019	100% DESIGN
MARK	DATE	DESCRIPTION

LOCATION IDENTIFIER: LK-ROW

MESSENGER INSTALLATION DETAILS 2 OF 2







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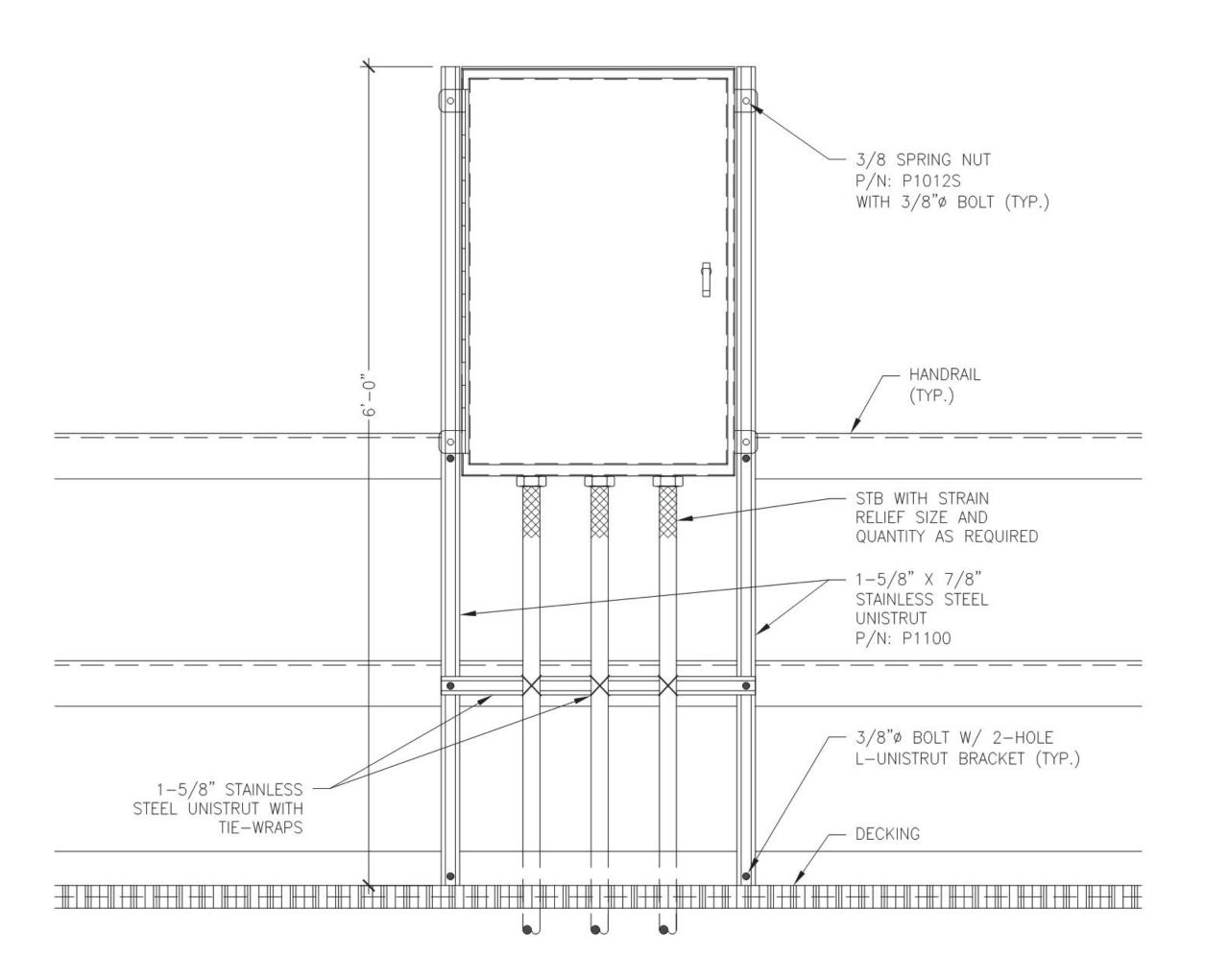
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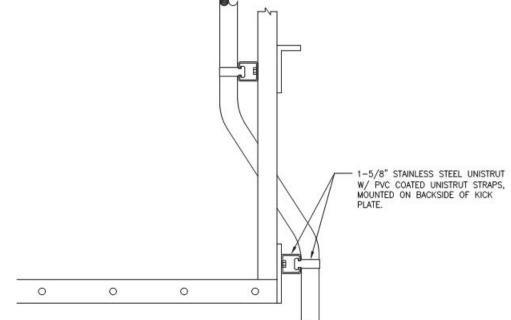
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LOCATION IDENTIFIER: LK-ROW

TYPICAL CABLE PLAN









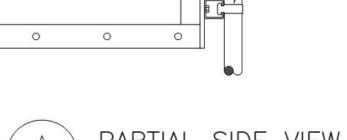
NOTES: 1. ALL MATERIAL 12 GAUGE STAINLESS

STEEL (TYPE TYPE 316L) OR GREATER. UNLESS NOTED

 JUNCTION BOX MEETS NEMA-4X AND U.L. REQUIREMENTS.

OTHERWISE.

2. ALL SEAMS WELDED.







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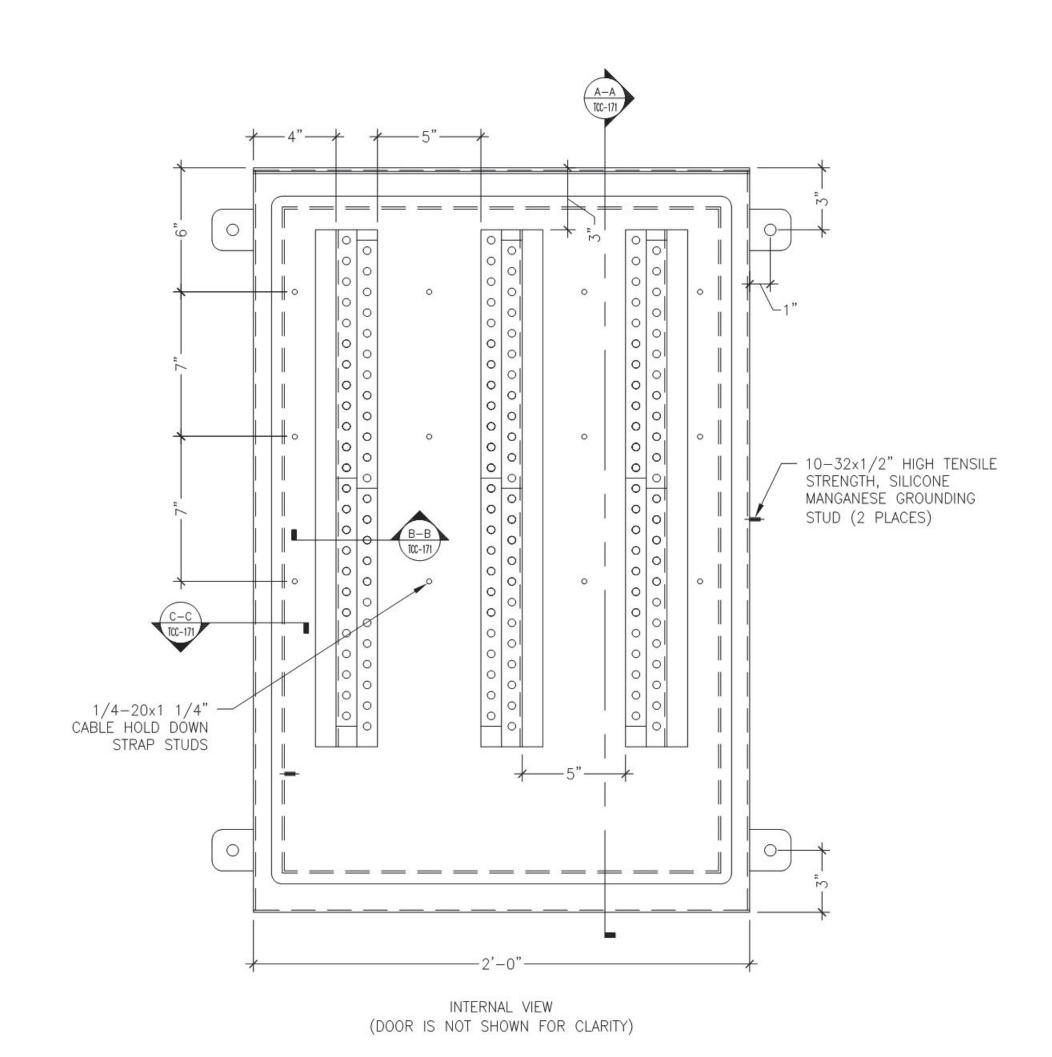
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CDOT GREEN LINE DAMEN STATION LAKE STREET

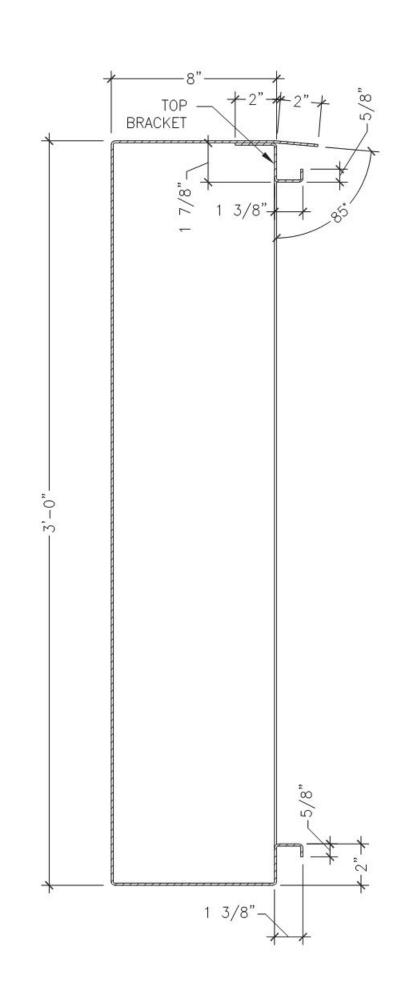
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LOCATION IDENTIFIER: LK-ROW

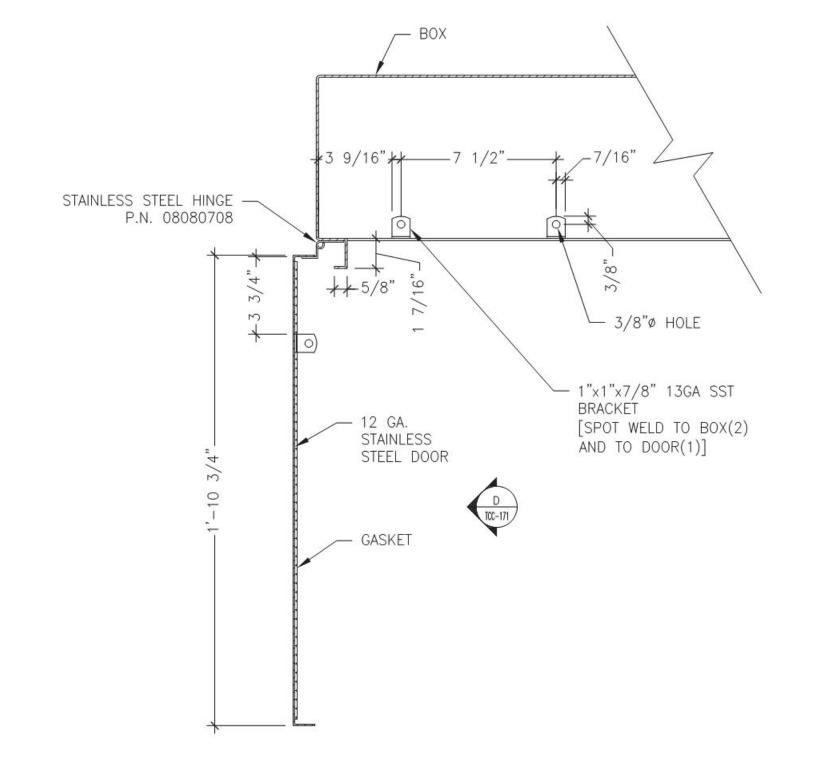
TYPICAL EXPRESS CABLE JUNCTION BOX DETAIL



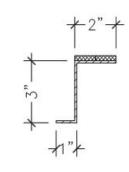
24"x36"x8" EXPRESS CABLE JUNCTION BOX



24"x36"x8" EXPRESS CABLE JUNCTION BOX (A-A) TCC-171 SCALE:



24"x36"x8" EXPRESS CABLE JUNCTION BOX



Z-BRACKET



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2. ALL SEAMS WELDED.

JUNCTION BOX MEETS NEMA-4X AND U.L. REQUIREMENTS.





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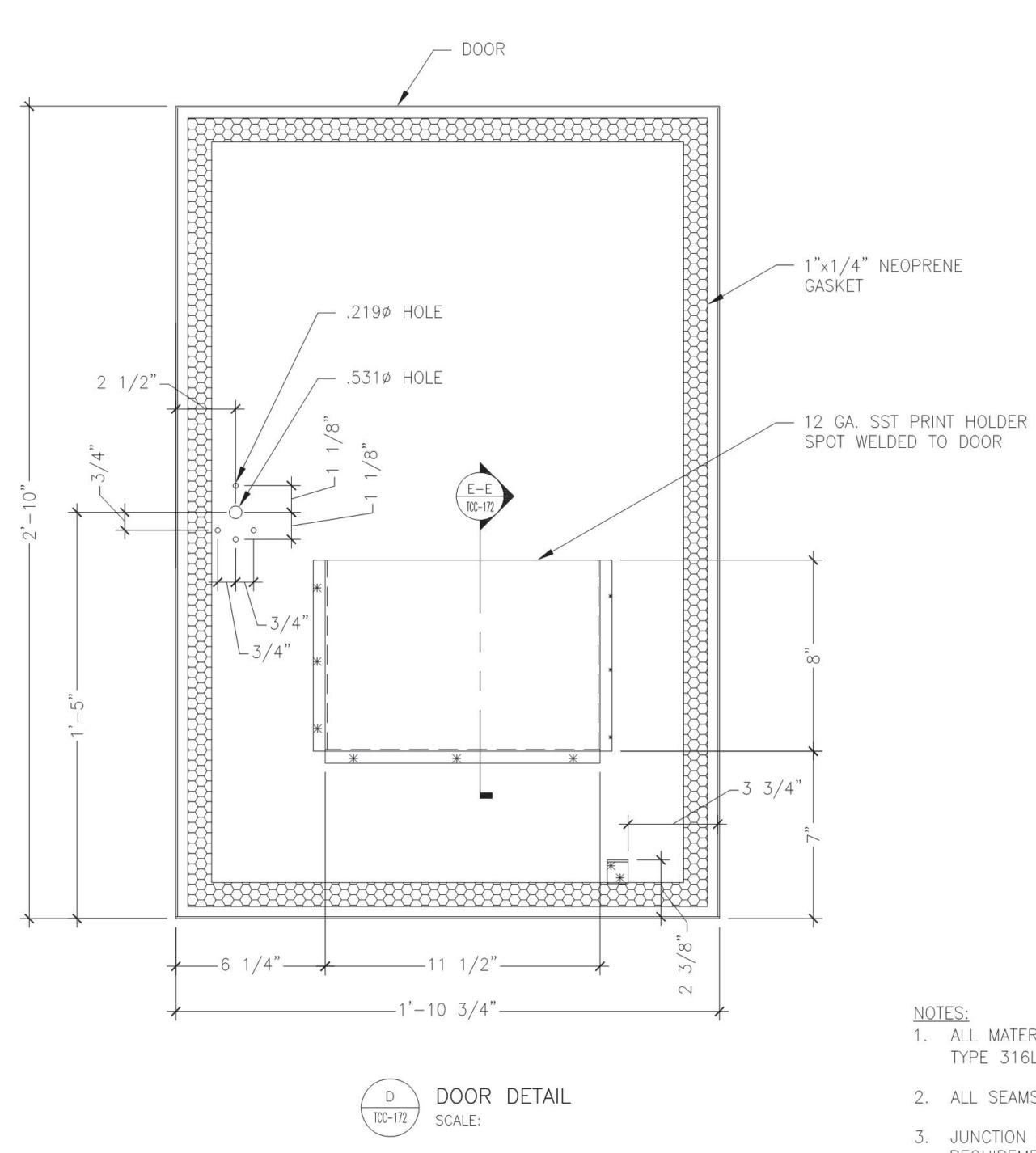
DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

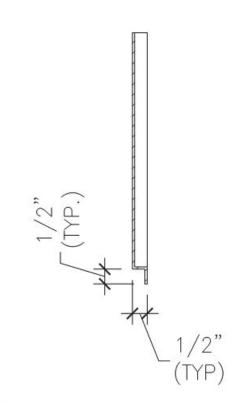
> CDOT GREEN LINE DAMEN STATION LAKE STREET

HARGE	J. HARPER
OVED BY	E. MCGRAW
KED BY	J. MITCHELL
GNED BY	CTA
'N BY	J. MITCHELL
ECT NO	PROJECT D-7-135B
NAME	
01/27/2020	ISSUE FOR BID
	100% DESIGN
DATE	DESCRIPTION
	OVED BY KED BY ONED BY

LOCATION IDENTIFIER: LK-ROW

TYPICAL EXPRESS CABLE JUNCTION BOX DETAIL 1 of 3







PRINT HOLDER DETAIL SCALE:

NOTES:

- 1. ALL MATERIAL 12 GAUGE STAINLESS STEEL (TYPE TYPE 316L) OR GREATER.
- 2. ALL SEAMS WELDED.
- JUNCTION BOX MEETS NEMA-4X AND U.L. REQUIREMENTS.





SENSITIVE SECURITY INFORMATION

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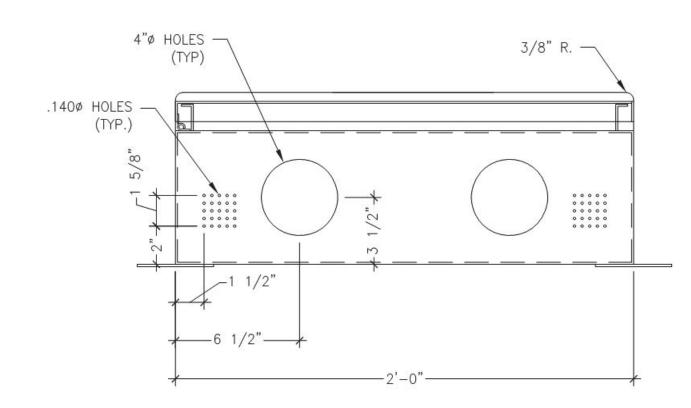
> CDOT GREEN LINE DAMEN STATION LAKE STREET

IN CH	HARGE	J. HARPER
APPR	OVED BY	E. MCGRAW
CHEC	KED BY	J. MITCHELL
DESIG	SNED BY	CTA
DRAW	'N BY	J. MITCHELL
PROJ	ECT NO	PROJECT D-7-135B
FILE	NAME	
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	01/27/2020	ISSUE FOR BID
	06/14/2019	100% DESIGN
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TYPICAL EXPRESS CABLE JUNCTION BOX DETAIL 2 of 3







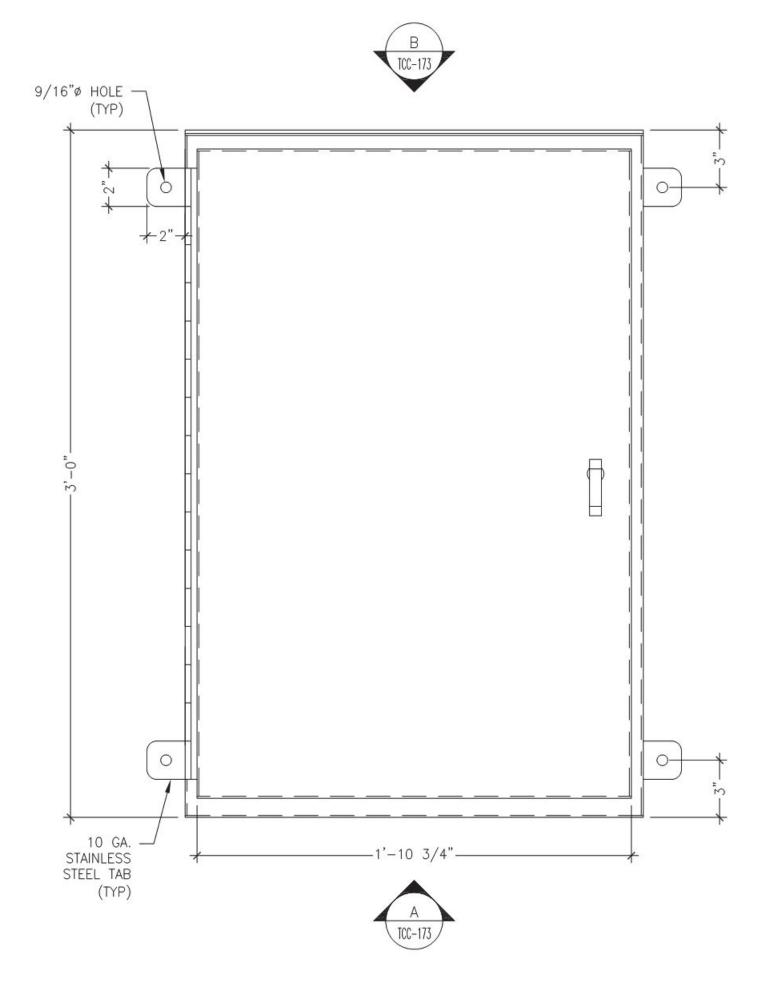
TCC-173

SCALE:

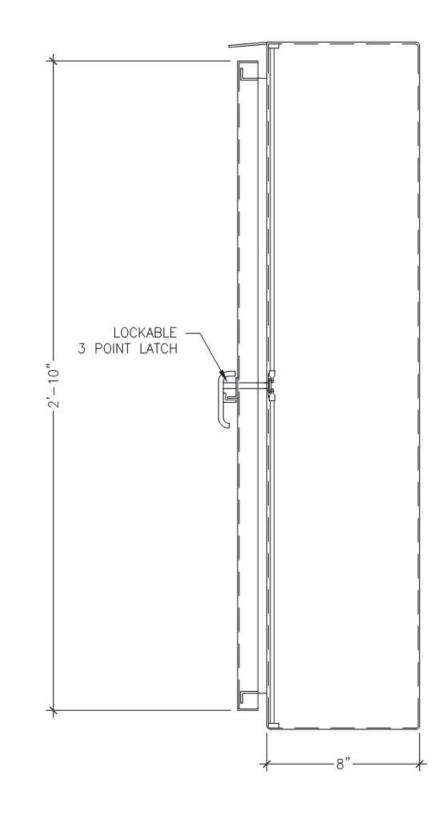
BOTTOM VIEW DETAIL

- NOTES:

 1. ALL MATERIAL 12 GAUGE STAINLESS STEEL (TYPE TYPE 316L) OR GREATER.
- 2. ALL SEAMS WELDED.
- JUNCTION BOX MEETS NEMA-4X AND U.L. REQUIREMENTS.







SIDE ELEVATION 2 | SIDE | SCALE:





SENSITIVE SECURITY INFORMATION

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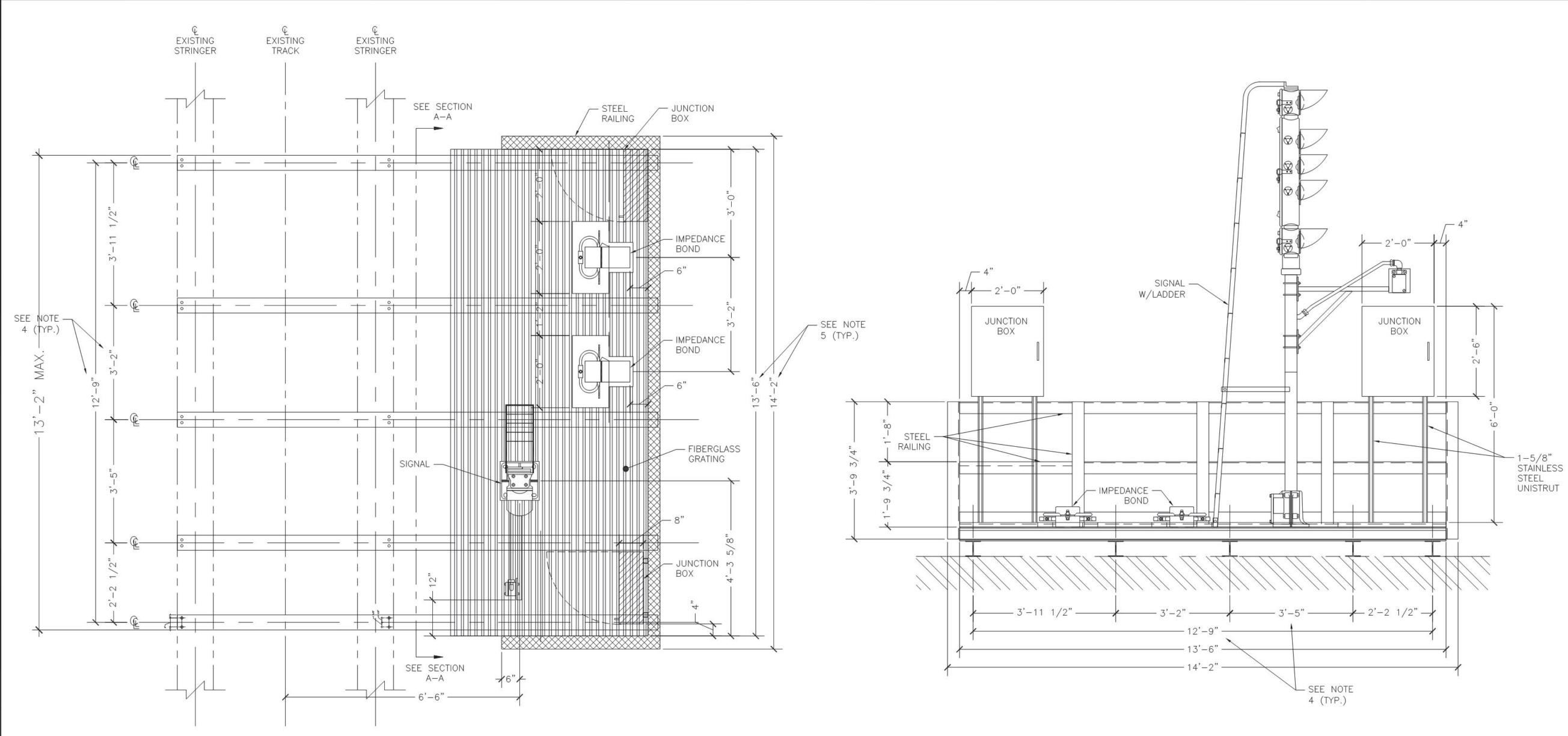
DRAWING SCALE IS NOT GUARANTEED. CTA ASSUMES NO RISK OF LIABILITY FOR ERRORS CAUSED, DIRECTLY OR INDIRECTLY, BY SCALING OF THIS DRAWING.

CDOT GREEN LINE DAMEN STATION LAKE STREET

IN CHARG	ξE	J. HARPER
APPROVED) BY	E. MCGRAW
CHECKED	BY	J. MITCHELL
DESIGNED	BY	CTA
DRAWN B	Υ	J. MITCHELL
PROJECT	NO	PROJECT D-7-135B
FILE NAM	E	
01/2	27/2020	ISSUE FOR BID
06/1	4/2019	100% DESIGN
MARK D	ATE	DESCRIPTION

LOCATION IDENTIFIER: LK-ROW

TYPICAL EXPRESS CABLE JUNCTION BOX DETAIL 3 of 3



ITEM	SHAPE	LENGTH	NOTES	QTY
	W5x19	13'-4"	DV (WAT VX	5
A	Vol. VA. VO. ROY Vol.	705.3533 EV	I-BEAM (SEE NOTE #2)	1 2000
В	L4x4x3/8	13'-6"		2
С	L4x4x3/8	4'-9 3/8"		5
D	L4x4x3/8	14'-2"		2
E	L4x4x3/8	4'-0"		4
F	L4x4x3/8	3'-9 3/4"		4
G	4x3/8	3'-11"	FLAT PLATE	2
Н	4×3/8	13'-11"	FLAT PLATE	1
J	4x3/8	3'-5 3/4"	FLAT PLATE	3
K	L3x3x3/8	2'-4 5/8"	SUPPORT	2
L	L3x3x3/8	2'-10"	SUPPORT	2
М	L3x3x3/8	4'-5 1/4"		4
N	L3x3x3/8	3'-8 1/4"		2
Р	L3-1/2x3-1/2x3/8	13'-4"		2
	3/4-12 x 1-3/4"	ASE 325	BOLTS	20
	3/4 - 12	ASE 325	NUTS	20
	ø3/4	FLAT	WAHSERS	20
	5/8"-11 x 1-3/4"	ASE 325	BOLTS	40
	5/8"-11	ASE 325	NUTS	40
	ø5/8"	FLAT	WAHSERS	40

- NOTE:

 1. EQUIPMENT LOCATIONS MAY VARY DUE TO FIELD CONDITIONS.
- 2. IMPEDANCE BONDS CAN BE A MINIMUM OF 5'-10" FROM € OF TRACK AND A MINIMUM 6" OFF BACK OF PLATFORM.
- 3. DIRECTION OF EQUIPMENT MOUNTING HARDWARE MAY VARY DUE TO FIELD OBSTRUCTIONS.
- 4. DISTANCES VARY. W5X19 BEAMS ADJUSTED FOR TIE OBSTRUCTION.
- 5. PLATFORMS COMBINED WITH TRACK ACCESS STAIRS MUST BE 18 FEET. REFERENCE TCC-245 DRAWING.
- 7. INFORMATION PROVIDED IS FOR REFERENCE ONLY CONTRACTOR MUST DESIGN PER LOCATION AND SUBMIT WITH CALCULATION AND SE STAMP FOR APPROVAL TO CTA.

TYPICAL PLATFORM 14-18 FEET EQUIPMENT LAYOUT





SENSITIVE SECURITY INFORMATION

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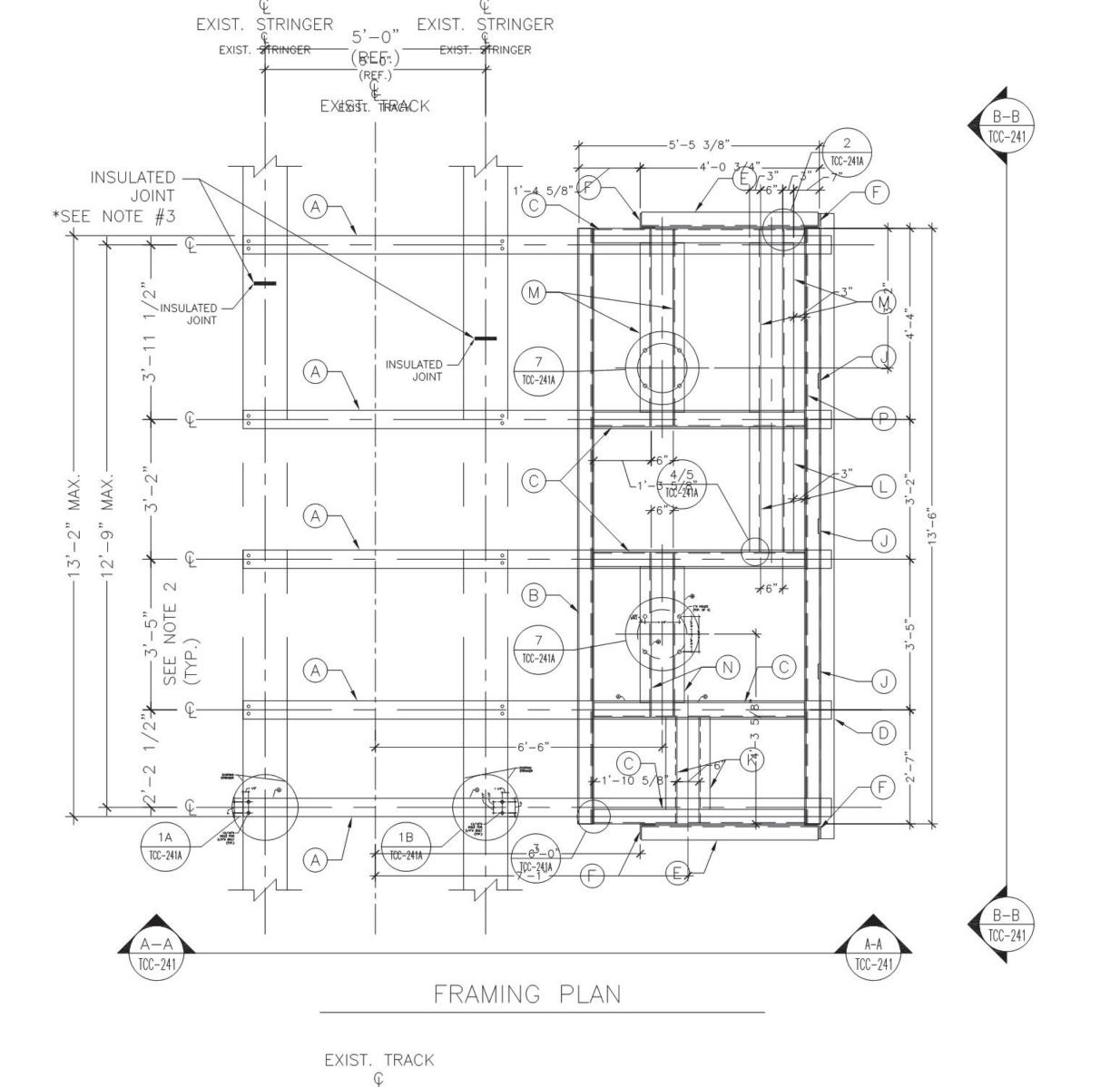
CDOT GREEN LINE DAMEN STATION LAKE STREET

IN CH	HARGE	J. HARPER
APPR	OVED BY	E. MCGRAW
CHEC	KED BY	J. MITCHELL
DESIG	GNED BY	CTA
DRAW	/N BY	J. MITCHELL
PROJ	ECT NO	PROJECT D-7-135B
FILE	NAME	
	01/27/2020	ISSUE FOR BID
	06/14/2019	100% DESIGN
MARK	DATE	DESCRIPTION
		TIELES 114 BOW

LOCATION IDENTIFIER: LK-ROW

TYPICAL PLATFORM EQUIPMENT LAYOUT

TCC-240



 \bigcirc

A

12" (REF.) √

4'-0 3/4"

SECTION A-A

ITEM	SHAPE	LENGTH	NOTES	QTY
Α	W5×19	13'-4"	I-BEAM (SEE NOTE #	2) 5
В	L4×4×3/8	13'-6"	2	2
С	L4×4×3/8	4'-9 3/8"		5
D	L4x4x3/8	14'-2"		2
Е	L4×4×3/8	4'-0"		4
F	L4×4×3/8	3'-9 3/4"		4
G	4×3/8	3'-11"	FLAT PLATE	2
Н	4×3/8	13'-11"	FLAT PLATE	1
J	4×3/8	3'-5 3/4"	FLAT PLATE	3
K	L3x3x3/8	2'-4 5/8"	SUPPORT	2
L	L3x3x3/8	2'-10"	SUPPORT	2
М	L3x3x3/8	4'-5 1/4"		4
Ν	L3x3x3/8	3'-8 1/4"		2
Р	L3-1/2x3-1/2x3	/8 13'-4"		2
	3/4-12 × 1-3/	4" ASE 325	BOLTS	20
	3/4 - 12	ASE 325	NUTS	20
	ø3/4	FLAT	WAHSERS	20
	5/8"-11 x 1-3/	4" ASE 325	BOLTS	40
	5/8"-11	ASE 325	NUTS	40
	ø5/8"	FLAT	WAHSERS	40

- NOTES:

 1. PLATFORMS CANNOT BE INSTALLED IN THE MIDDLE 1/3 OF EXISTING BENT SPANS OR AT EXPANSIONS BENT.
- 2. DISTANCES VARY. W5X19 BEAMS ADJUSTED FOR TIE OBSTRUCTION.
- 3. SIGNAL PLATFORM LOCATED IN A MANNER THAT ALLOWS THE SIGNAL TO BE MOUNTED BETWEEN THE INSULATED JOINT AND 5'-0" PRIOR TO THE INSULATED JOINT IN THE DIRECTION OF TRAVEL
- 4. FOR PLATFORM UNDERBUILT AND DETAIL SEE DRAWINGS TCC-241 THRU TCC-244
- 5. INFORMATION PROVIDED IS FOR REFERENCE ONLY CONTRACTOR MUST DESIGN PER LOCATION AND SUBMIT WITH CALCULATION
- AND SE STAMP FOR APPROVAL TO CTA. 6. CONTRACTOR MUST ADHERE TO CONTRACT SPECIFICATIONS.





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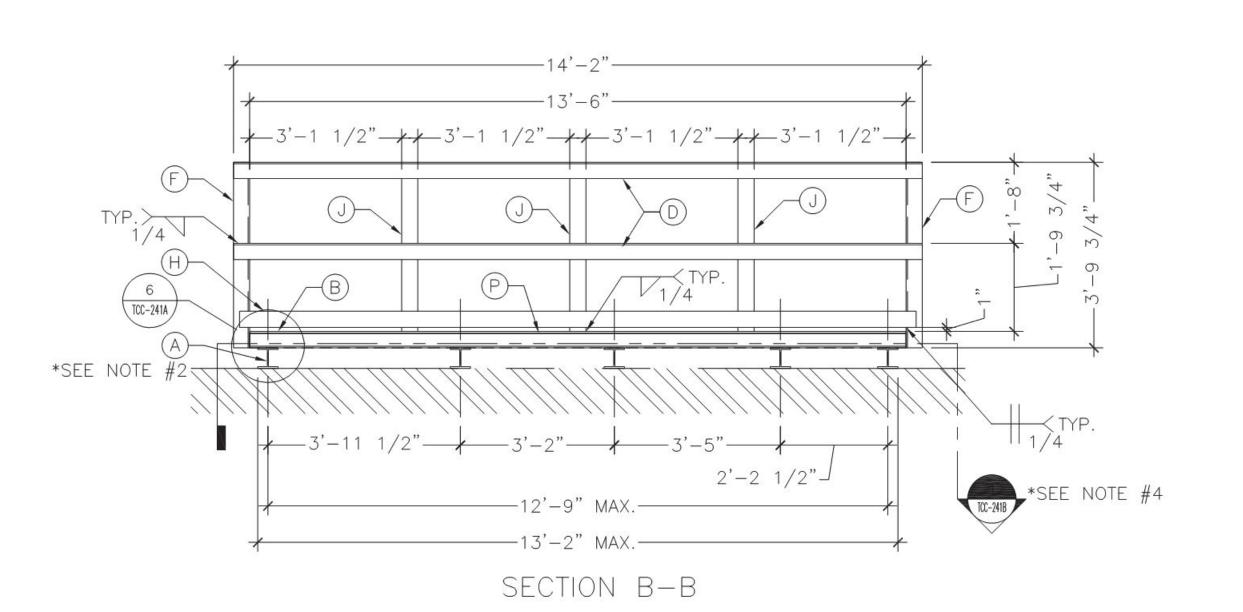
CDOT GREEN LINE DAMEN STATION LAKE STREET

IN CH	HARGE	J. HARPER
APPR	OVED BY	E. MCGRAW
CHEC	KED BY	J. MITCHELL
DESIG	GNED BY	CTA
DRAW	/N BY	J. MITCHELL
PROJ	ECT NO	PROJECT D-7-135B
FILE	NAME	
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	01/27/2020	ISSUE FOR BID
	06/14/2019	100% DESIGN
MARK	DATE	DESCRIPTION

LOCATION IDENTIFIER: LK-ROW

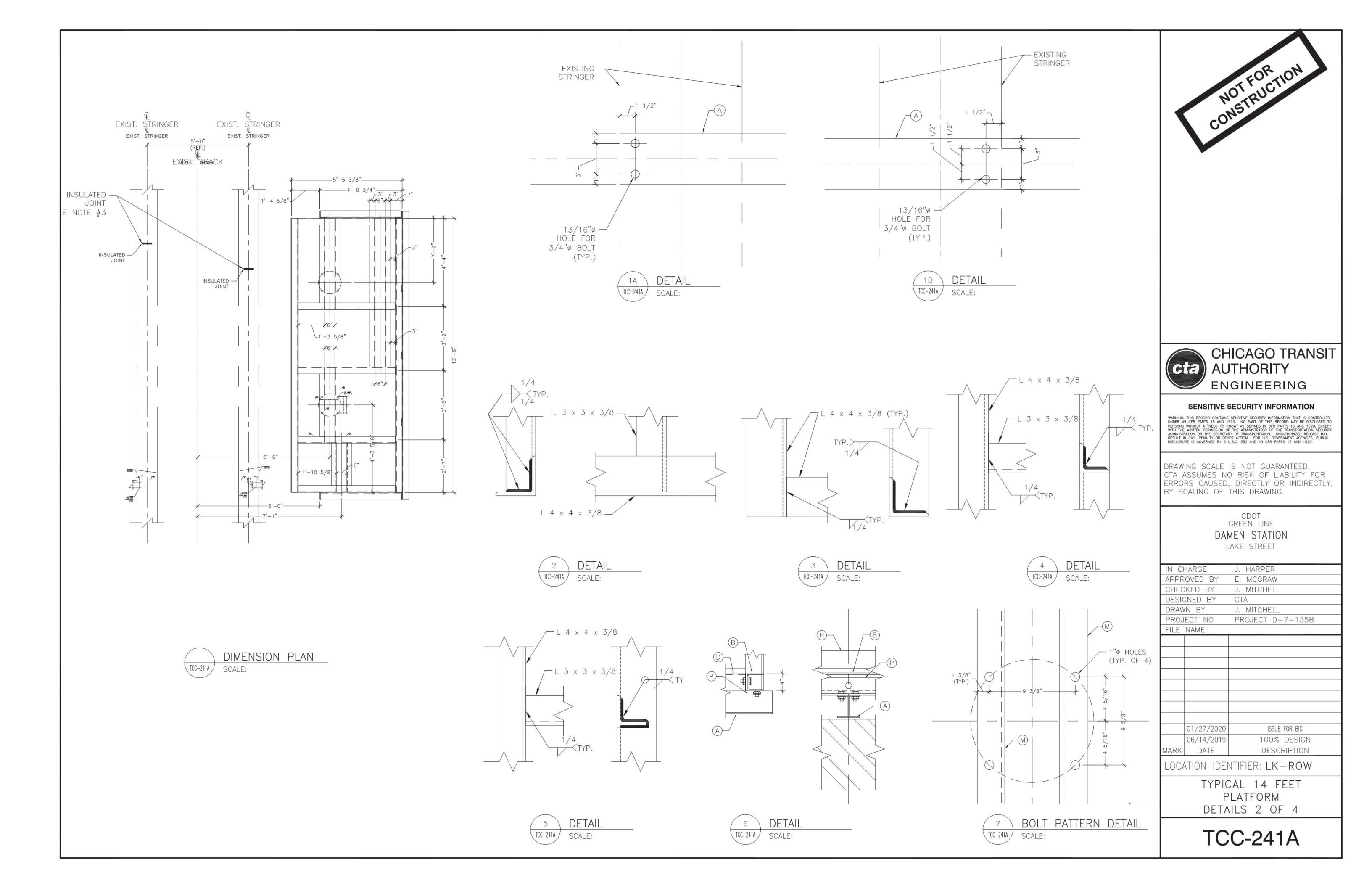
TYPICAL 14 FEET PLATFORM DETAILS 1 OF 4

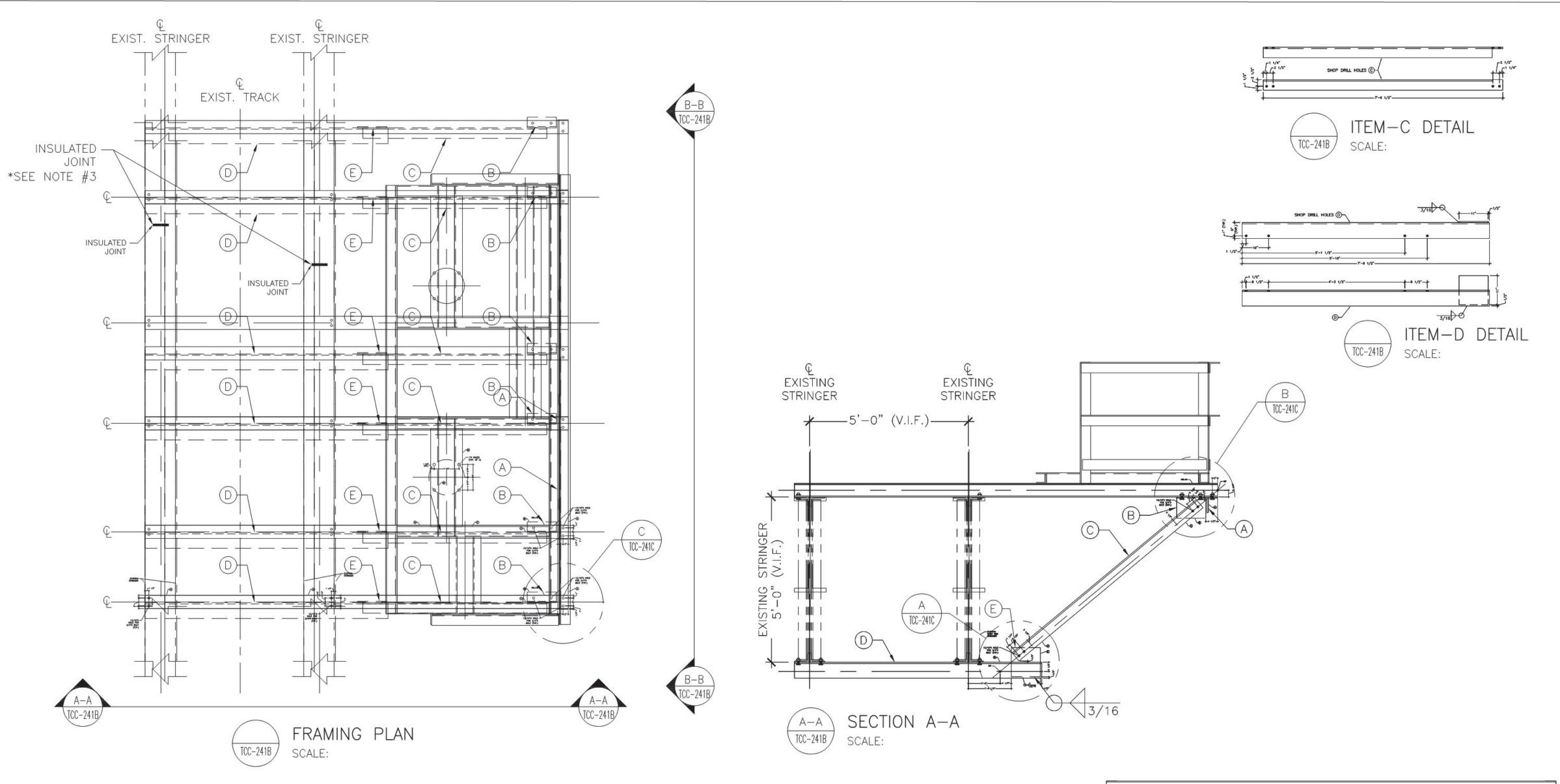
TCC-241



TYPICAL 14 FEET PLATFORM DETAILS 1 OF 4

*SEE NOTE #4





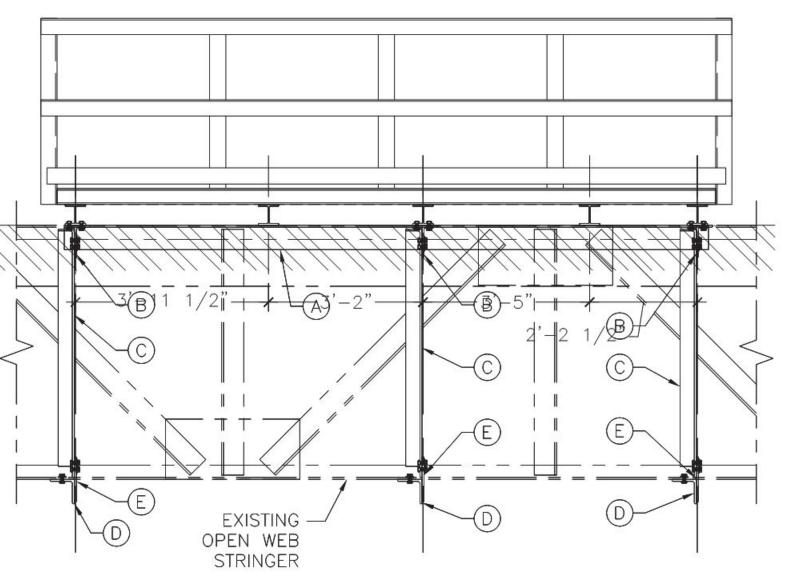
NOTES:

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- 2. DISTANCES VARY. W5X19 BEAMS ADJUSTED FOR TIE OBSTRUCTION.
- 3. SIGNAL PLATFORM LOCATED IN A MANNER THAT ALLOWS THE SIGNAL TO BE MOUNTED BETWEEN THE INSULATED JOINT AND 5'-0" PRIOR TO THE INSULATED JOINT IN THE DIRECTION OF TRAVEL
- 4. FOR PLATFORM UNDERBUILT AND DETAIL SEE DRAWINGS TCC-241 THRU TCC-244
- 5. INFORMATION PROVIDED IS FOR REFERENCE ONLY CONTRACTOR MUST DESIGN PER LOCATION AND SUBMIT WITH CALCULATION AND SE STAMP FOR APPROVAL TO CTA.
- 6. CONTRACTOR MUST ADHERE TO CONTRACT SPECIFICATIONS.

ITEM	SHAPE	LENGTH	NOTES	QTY
Α	L6×4×1/2	±13'-2 1/2"	SEE NOTE #4	1
В	L8x4x1/2	11"		3
С	L4×4×1/2	±7'-6 1/2"	SEE NOTE #4	3
D	L6x6x1/2	±7'-9 1/2"	SEE NOTE #4	3
Е	11"x1/2"	11"	GUSSET PLATE	3
	3/4" x 1-3/4"	ASE 325	BOLT	40
	3/4	ASE 325	NUTS	40
	ø3/4	FLAT	WASHERS	40

TYPICAL 14 FEET
PLATFORM DETAILS
3 OF 4



SECTION B-B

TCC-241B SCALE:





SENSITIVE SECURITY INFORMATION

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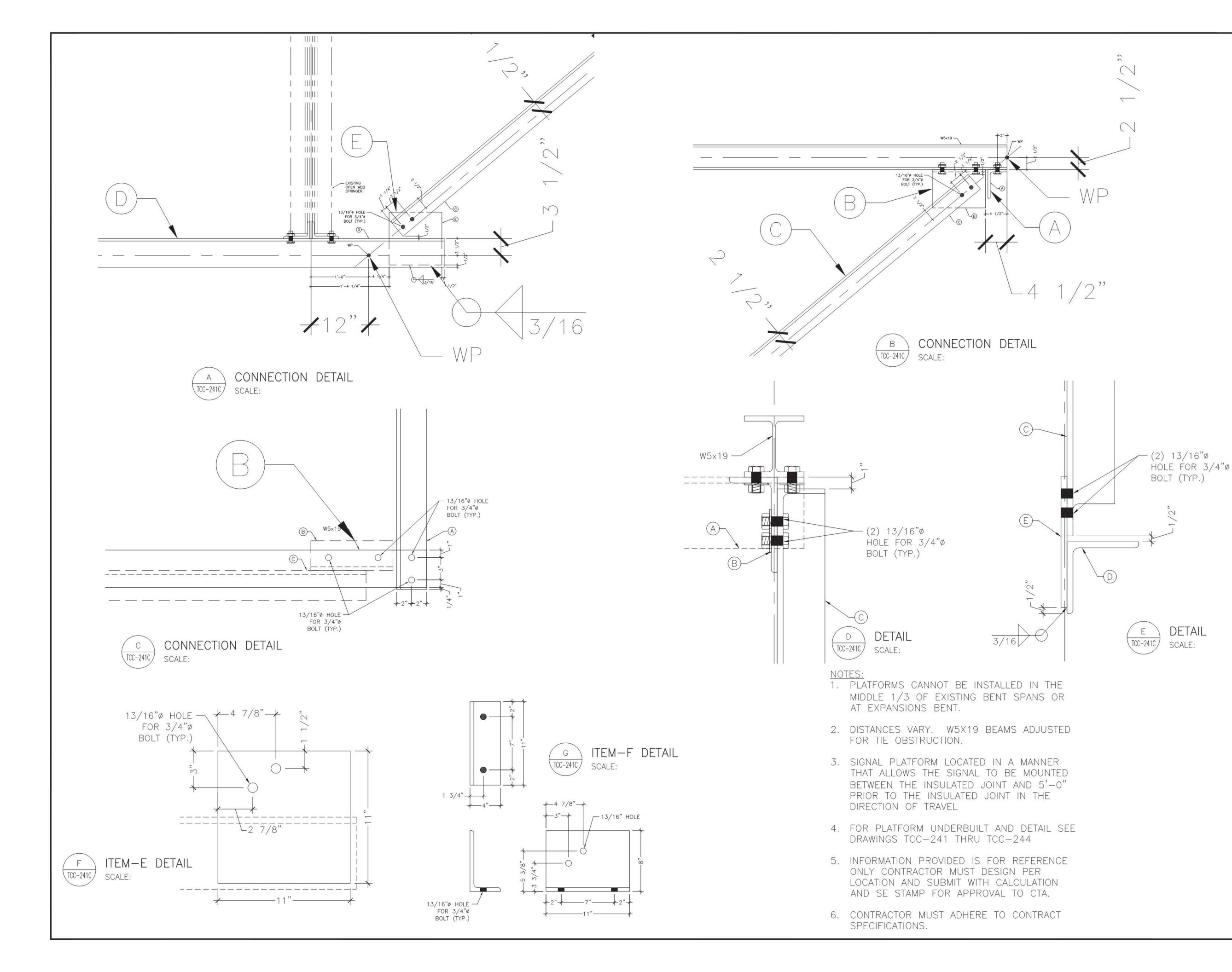
CDOT GREEN LINE DAMEN STATION LAKE STREET

IN CHARGE	J. HARPER
APPROVED B	Y E. MCGRAW
CHECKED BY	J. MITCHELL
DESIGNED BY	CTA
DRAWN BY	J. MITCHELL
PROJECT NO	PROJECT D-7-135B
FILE NAME	
01/27/2	020 ISSUE FOR BID
06/14/2	019 100% DESIGN
MARK DATE	DESCRIPTION
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LOCATION IDENTIFIER: LK-ROW

TYPICAL 14 FEET
PLATFORM
DETAILS 3 OF 4

TCC-241B







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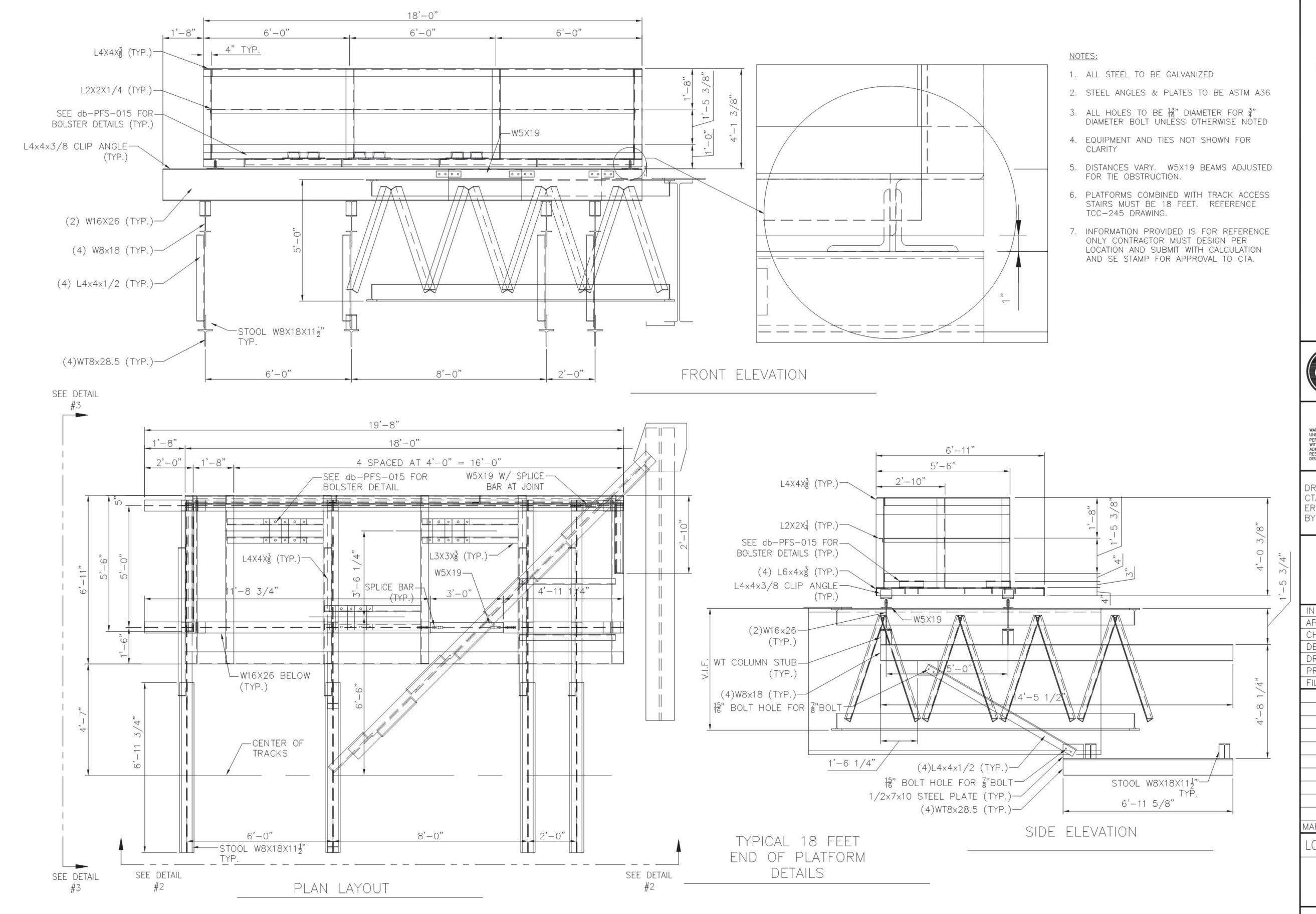
CDOT GREEN LINE DAMEN STATION LAKE STREET

IN CH	HARGE	J. HARPER
APPR	OVED BY	E. MCGRAW
CHEC	KED BY	J. MITCHELL
DESIG	ONED BY	CTA
DRAW	'N BY	J. MITCHELL
PROJ	ECT NO	PROJECT D-7-135B
FILE	NAME	
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		75'41'12 W7 2 Y21'2
	01/27/2020	ISSUE FOR BID
2	06/14/2019	100% DESIGN
MARK	DATE	DESCRIPTION
1004	ATION IDEN	NTIFIFR: I K-ROW

LOCATION IDENTIFIER: LK-ROW

TYPICAL 14 FEET
PLATFORM
DETAILS 4 OF 4

TCC-241C







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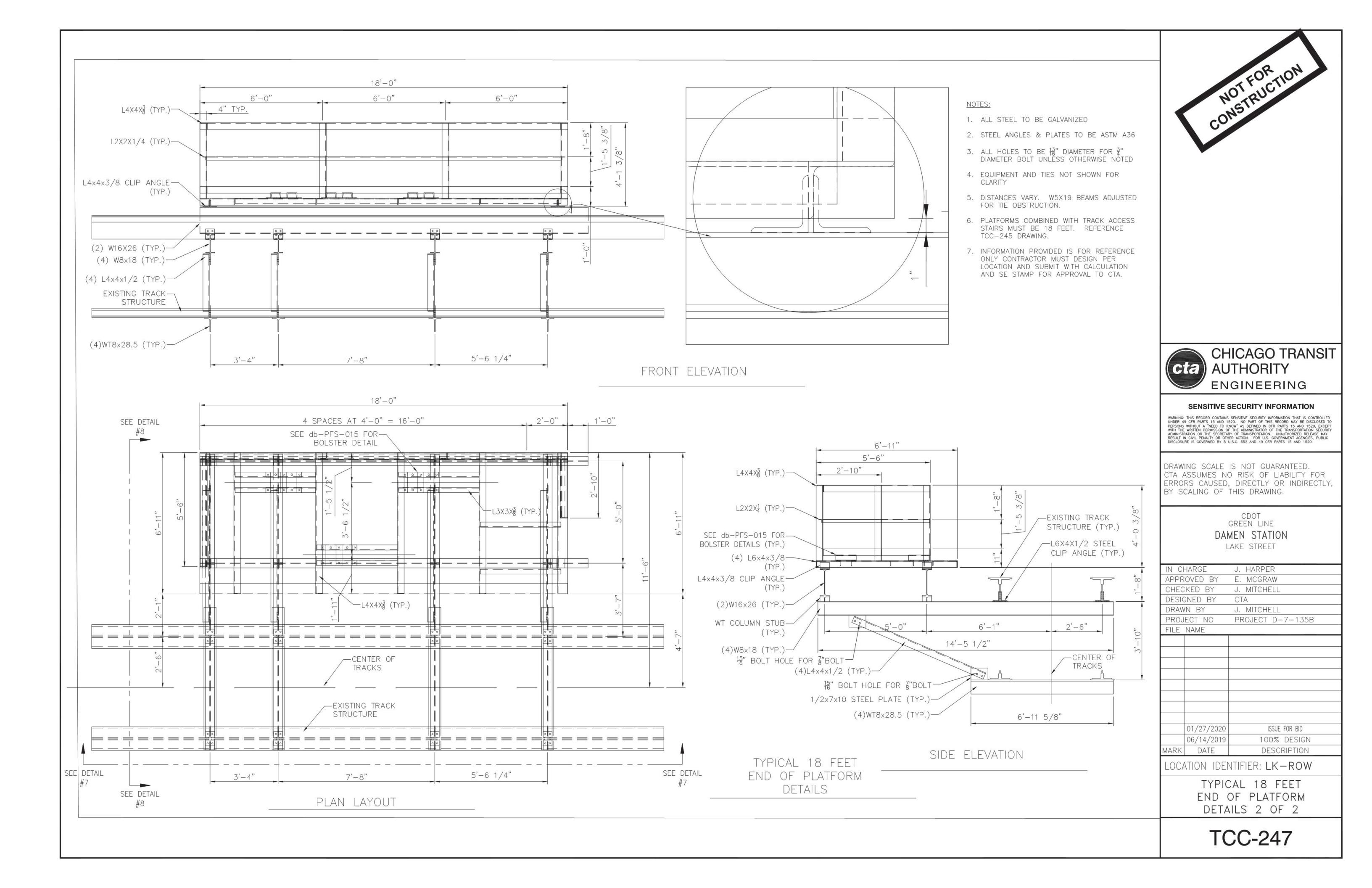
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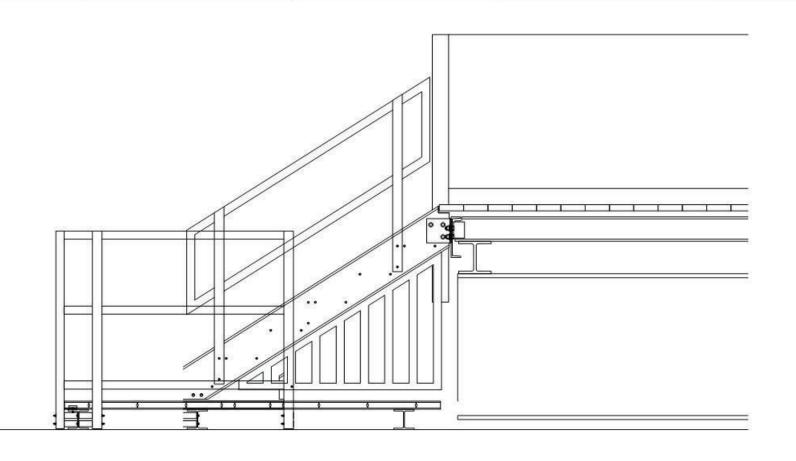
CDOT GREEN LINE DAMEN STATION LAKE STREET

LOCATION IDENTIFIER: LK-ROW

TYPICAL 18 FEET END OF PLATFORM DETAILS 1 OF 2

TCC-246



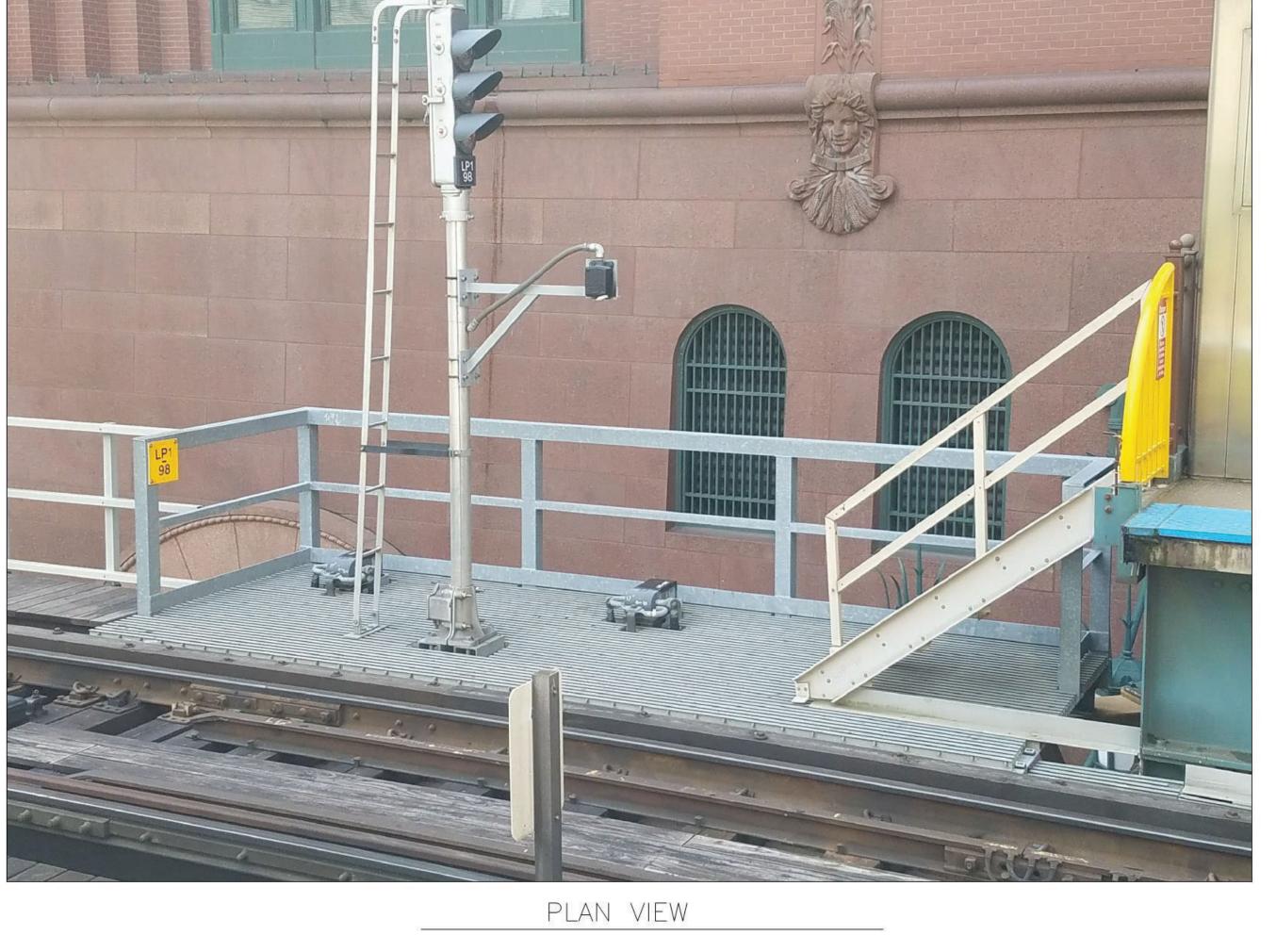


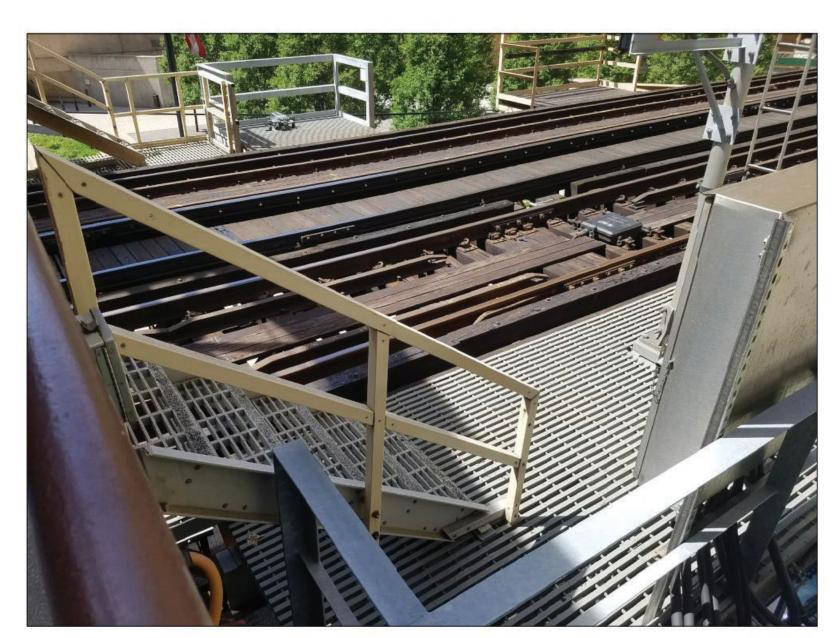




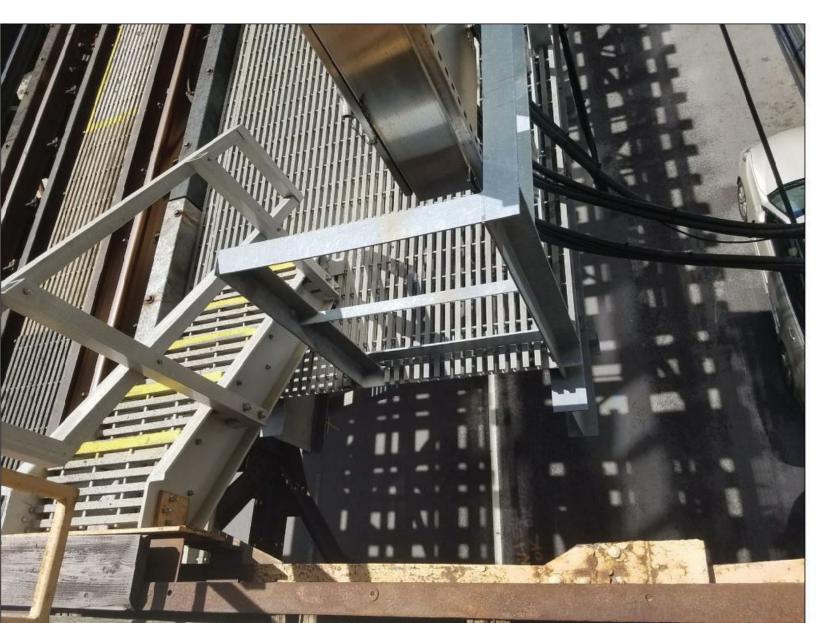
NOTES:

- 1. THE SIGNAL PLATFORM AND THE TRACK ACCESS STAIRS PLATFORM NEEDS TO BLEND AT THE LANDING.
- 2. REFERENCE THE CONTRACT DRAWINGS ON THE DETAILS FOR THE TRACK ACCESS STAIRS DRAWING CT-005.
- REFERENCE THE CONTRACT DRAWINGS ON THE DETAILS FOR THE END OF PLATFORM TCC-245 THRU TCC-247.
- 4. REFERENCE THE CONTRACT DRAWINGS ON THE DETAILS FOR THE TYPICAL 14 FEET SIGNAL PLATFORM TCC-240 THRU TCC-241C.
- 5. THE LENGTH OF THE SIGNAL PLATFORM COMBINED OR BLENDED WITH THE TRACK ACCESS STAIRS MUST BE 18 FEET. USE THE TYPICAL 14 FEET PLATFORM AS REFERENCE.
- 6. THE PURPOSE OF THIS DRAWING IS TO REFLECT WHAT IS MEANT BY BLENDING A SIGNAL PLATFORM WITH A TRACK ACCESS STAIRS PLATFORM.





BACK SIDE VIEW



TOP VIEW





SENSITIVE SECURITY INFORMATION

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CDOT GREEN LINE DAMEN STATION LAKE STREET

1 1140000
J. HARPER
E. MCGRAW
J. MITCHELL
CTA
J. MITCHELL
PROJECT D-7-135B
ISSUE FOR BID
100% DESIGN
DESCRIPTION

LOCATION IDENTIFIER: LK-ROW

TYPICAL BLENDED TRACK ACCESS STAIRS WITH WAYSIDE SIGNAL PLATFORM

TCC-248