DRILLED SHAFT LAYOUT TABLE

	Shaft No.	Station	Offset	Top of Shaft Elevation	Bottom of Shaft Elevation
	1	8282+77.54	7.95′ Rt.	587.83	497.83
	2	8282+87.51	7.78′ Rt.	587.83	497.83
	3	8282+97.49	7.64′ Rt.	587.83	497.83
	4	8283+07.43	7.58′ Rt.	587.83	497.83
	5	8283+17.42	7.58′ Rt.	587.83	497.83
	6	8283+27.41	7.58′ Rt.	587.83	497.83
	7	8283+37.40	7.58′ Rt.	587.83	497.83
	8	8283+47.39	7.58′ Rt.	587.83	497.83
	9	8283+57.38	7.58′ Rt.	587.83	497.83
	10	8283+67.37	7.58′ Rt.	587.83	497.83
	11	8283+77.36	7.58′ Rt.	587.83	497.83
	12	8283+87.34	7.58′ Rt.	587.83	497.83
	13	8283+97.33	7.58′ Rt.	587.83	497.83
	14	8284+07.32	7.58′ Rt.	587.83	497.83
	15	8284+17.31	7.58′ Rt.	587.83	497.83
	16	8284+27.30	7.58′ Rt.	587.83	497.83
	17	8284+38.29	7.58′ Rt.	587.83	497.83
*	18	8284+50,78	7.58′ Rt.	587.83	497.83
+	19	8284+58.77	7.58′ Rt.	587.83	497.83
+	20	8284+83.74	7.58′ Rt.	587.83	497.83

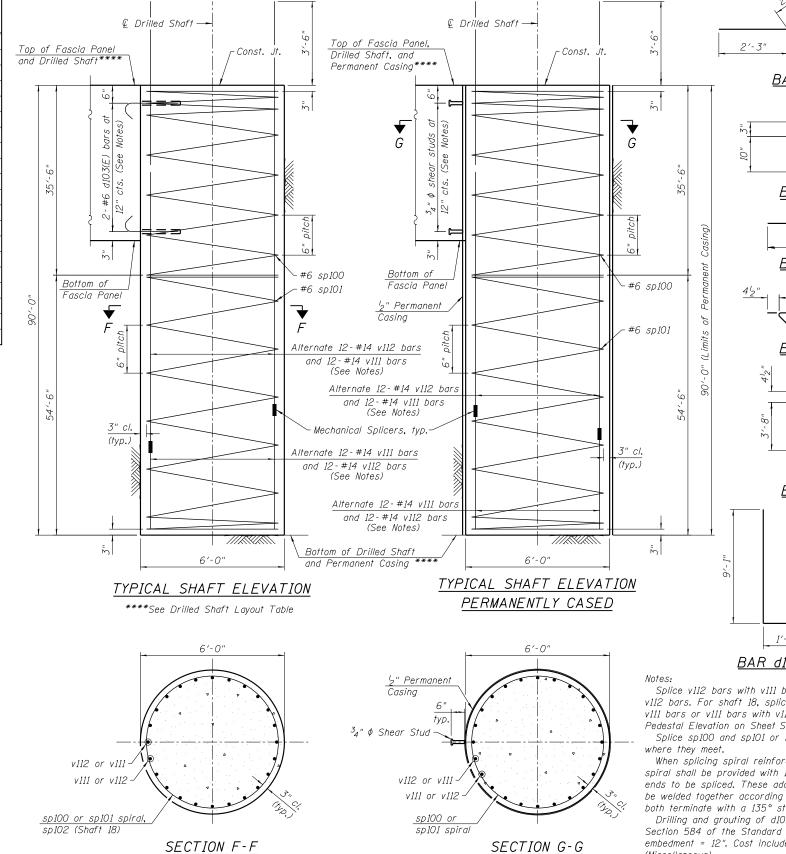
* Extend spiral reinforcing and drilled shaft reinforcing through cap and into HMLT pedestal. See Sheet S5-09 of S5-19 for details.

+ Permanent Casing

5'-5" ¢	5'-5" Ø
35'-3"	
<u>BAR sp100</u>	<u>BAR sp101</u>

54





PM 12:59:48 0161826-(

I						Specifications automatically end
I		USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		DRILLED SHAFT WALL SECTIO
I	Trop Systems		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	
I	"Elran Systems >	PLOT SCALE = NTS	DRAWN - AJD	REVISED -	DEPARTMENT OF TRANSPORTATION	RETAINING WALL 37 (STRUCT
I		PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S5-10 OF S5-

1' <u>BAR</u> di

Splice sp100 and sp101 or

When splicing spiral reinfor

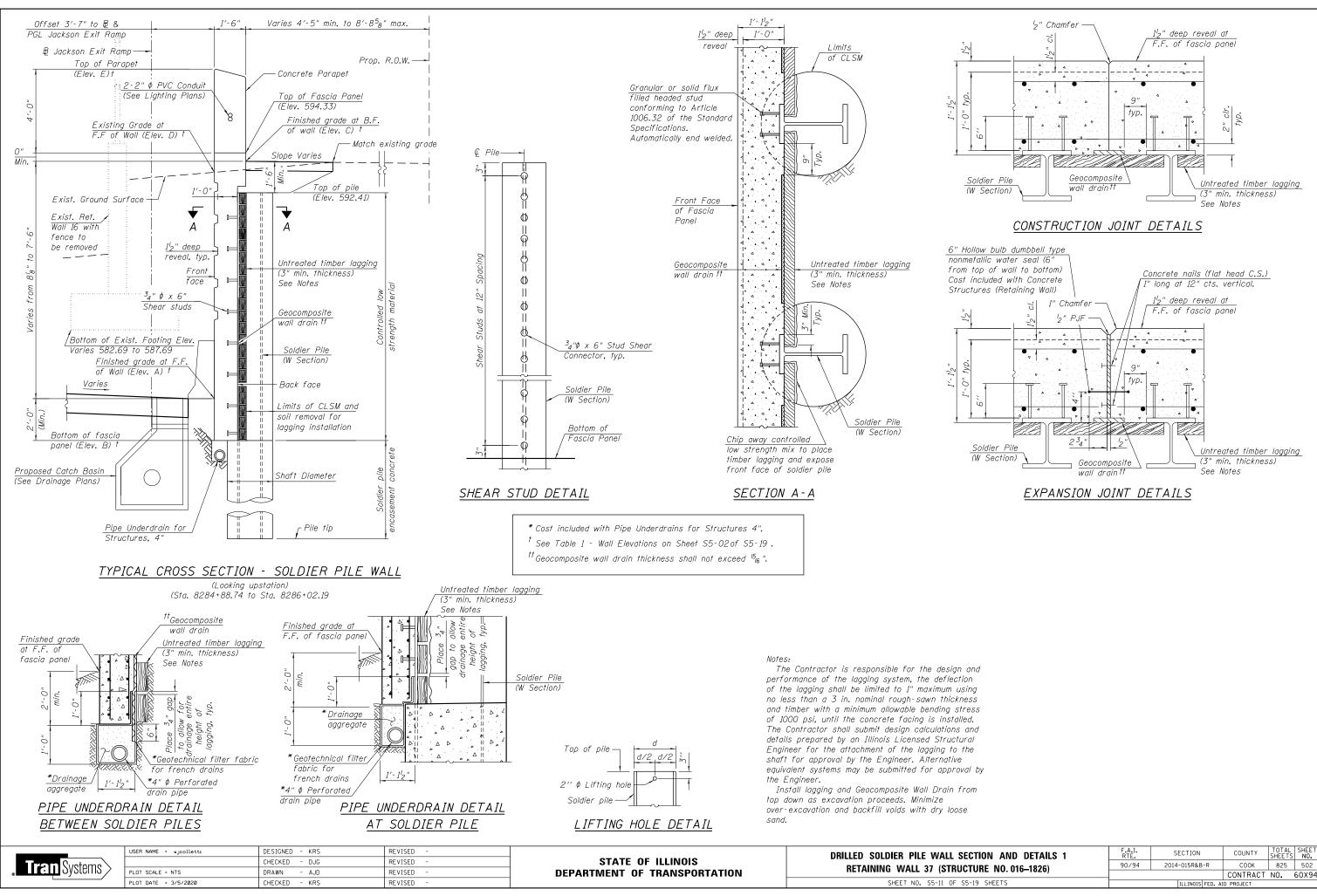
spiral shall be provided with ends to be spliced. These add be welded together according both terminate with a 135° s Drilling and grouting of d10 Section 584 of the Standard

embedment = 12". Cost includ (Miscellaneous). Cost of shear studs include

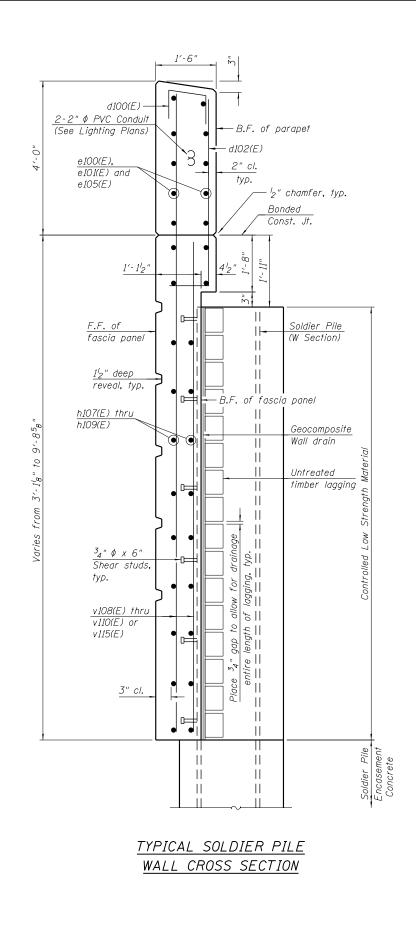
(Miscellaneous).

 $\frac{3}{4}$ "X6" granular or solid flux conforming to Article 1006.32 automatically er

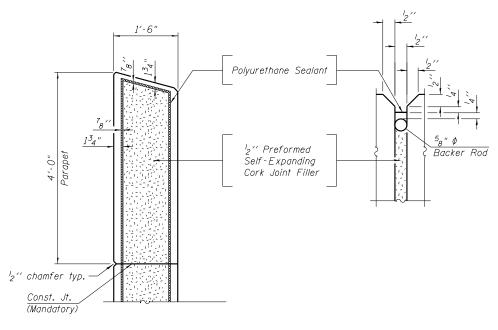
		<u>B</u>	ILL (OF MA	TERIA	<u>L</u>	
2'-2"		Bar	No.	Size	Length	Shape	
6		d100(E)	221	#5	3′-0″		
		d101(E)	380	#6	8'-10"		
2'-0"	***	<u>d103(E)</u> d104(E)	360 62	#6 #6	2′-3″ 10′-1″		-
<u> </u>		0104(E)	02	#0	10 - 1		-
<u> 3AR h105(E)</u>		e100(E)	42	#5	33'-2"		-
1'-3"		e101(E)	32	#5	29′-8″		
		e102(E)	14	#5	21'-3"		-
		e103(E) e104(E)	14 14	#5	26'-6" 24'-9"		-
_		6107(L)	17		27 5		-
	***	h100(E)	142	#6	33′-10″		
	***	h101(E)	75	#6	29′-8″		
·	***	h102(E)	30 20	#6 #8	21'-3"		-
BAR d100(E)	***	h103(E) h104(E)	20	#8	30'-0" 28'-3"		-
	***	h105(E)	31	#6	29'-10"		-
		h106(E)	19	#4	5′-8″		
1'-7" 8"		(00/5)			774 04		_
		p100(E)	66 44	#5 #5	<u>33'-2"</u> 29'-8"		-
<u>BAR d103(E)</u>		<u>р101(Е)</u> р102(Е)	22	#5	29-0		-
		p102(E)	24	#5	26'-6"		
6'-7"		p104(E)	24	#5	24'-9"		
		a100(5)	157	#1	7/ 0"		
δ		s100(E) s101(E)	153 306	#4 #4	7′-8" 12′-0"		4
I		5101(L)	500		12 0		1
<u>BAR s100(E)</u>	**	sp100	19	#6	35′-3″	~~~~	
5	**	sp101	20	#6	54'-3"	~~~~	
4	**	sp102	1	#6	42'-5"	~~~~	-
	***	v100(E)	23	#5	12'-5"		-
	***	v101(E)	31	#5	15'-6"		-
	***	v102(E)	31	#5	19′-1″		
	***	v103(E)	31	#5	22'-3"	——	
Z/ 11/	***	v104(E) v105(E)	31 31	#5 #5	24'-8" 27'-6"		-
3'-11"	***	v105(E)	24	#5	7'-2"		-
PAP = 101(E)	***	v107(E)	23	#5	9'-10"		
<u>BAR_\$101(E)</u>		v111	480	#14	54′-3″	·	
1		v112	456	#14	39'-0" 42'-6"		-
		v113 v114(E)	24 10	#14 #4	42 -6 2'-11"		-
		V11/(E)	10	,	2 11		-
"		Structure L	xcavat	ion	Cu. Yd.	511	1
01 -, 2		Concrete S			Cu. Yd.	224.6	
		Concrete S			Cu. Yd.	82.9	-
		Reinforcem Reinforcem			Pound Pound	438,910 18,910	-
		Epoxy Coat		З,	1 00/10	10,510	
		Permanent			Foot	180	-
1'-0"		Drilled Sha		oil	Cu. Yd.	1,885.0	
1104(E) BAR d101(E))	Concrete S Class SI C			Sq. Ft. Cu. Yd.	4,614 123,9	-
	-	(Miscellaned			<i>cu. 10</i> ,	12 J.9	
bars or v111 bars with		Crosshole S		ogging	Foot	1,800	1
ice v113 bars with		Access Du					
/113 bars. See HMLT S5-09 of S5-19 .		Crosshole S	sonic L	ogging	Each	4	
sp102 and sp101 bars		Testing Slope Inclii	nometer		Each	1	-
		Pipe Under			Foot	217	-
preement is necessary, the		Structures		0,	,,		
1 ¹ 2 extra turns at the ditional turns shall either							-
g to AWS D1.4 or shall		** Lenath	ic haiat	nt of spi	iral		
standard hook.		*** Shown 1				included	
103(E) bars shall be as per					(Miscellan		
d Specifications. Depth of Ided in Class SI Concrete							
				Minimu	ım Bar La	ps	
ded in Class SI Concrete				Bar		ар	
in filled beaded stude				#5	-	- 2"	
ix filled headed studs 32 of the Standard			\vdash	#6 #8		- 10"	
end welded to casing.				#'X	6'	-8"	
5		F.A.I. RTE.	SF	CTION	COUNTY	TOTAL SHEETS	SHEET
CTION AND DETAILS 3		RTE. 90/94)15R&B-R	СООК	825	NO. 501
UCTURE NO. 016–1826)					CONTRA		50X94
S5-19 SHEETS			IL	LINOIS FED.	AID PROJECT]



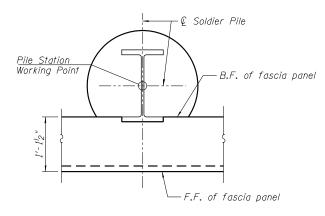
PILE LAYOUT



Pile	Station at Working Point	Offset	Top of Parapet El.	Top of Pile El.	Bot. of Wall El.	Section	Shaft Ø	Pile Tip El.	Pile Length
P-1	8284+93.48	5.77′ Rt.	598.33	592.41	584.90	W27X84	3′-0″	541.41	51'-0"
P-2	8285+00.97	5.77′ Rt.	598.33	592.41	585.34	W27X84	3'-0"	541.41	51'-0"
P-3	8285+08.47	5.77′ Rt.	598.33	592.41	585.79	W27X84	3'-0"	541.41	51'-0"
P-4	8285+15.96	5.77′ Rt.	598.33	592.41	586.24	W27X84	3′-0″	541.41	51'-0"
P-5	8285+23.45	5.77′ Rt.	598.33	592.41	586.69	W27X84	3'-0"	541.41	51'-0"
P-6	8285+30.94	5.77′ Rt.	598.33	592.41	587.14	W27X84	3'-0"	541.41	51'-0"
P-7	8285+38.44	5.23′ Rt.	598.33	592.41	587.59	W14X43	2'-0"	541.41	51'-0"
P-8	8285+45.94	5.23′ Rt.	598.33	592.41	588.04	W14X43	2'-0"	541.41	51'-0"
P-9	8285+53.44	5.23′ Rt.	598.33	592.41	588.49	W14X43	2'-0"	541.41	51'-0"
P-10	8285+60.94	5.23′ Rt.	598.33	592.41	588.94	W14X43	2'-0"	541.41	51'-0"
P-11	8285+68.44	5.23′ Rt.	598.33	592.41	589.39	W14X43	2'-0"	541.41	51'-0"
P-12	8285+75.94	5.23′ Rt.	598.33	592.41	589.81	W14X43	2'-0"	541.41	51'-0"
P-13	8285+83.44	5.23′ Rt.	598.33	592.41	590.22	W14X43	2'-0"	541.41	51'-0"
P-14	8285+90.94	5.23′ Rt.	598.33	592.41	590.63	W14X43	2'-0"	541.41	51'-0"
P-15	8285+98.44	5.23' Rt.	598.33	592.41	591.03	W14X43	2'-0"	541.41	51'-0"



PARAPET EXPANSION JOINT DETAILS



SOLDIER PILE WORKING POINT

USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		DRILLED SOLDIER PILE WALL SECTION AND DETAILS 2	F.A.I. RTE.	SECTION	COUNTY TO	JTAL SHEET
Tran Systems	CHECKED - DJG	REVISED -			90/94	2014-015R&B-R	СООК 8	825 503
PLOT SCALE = NTS PLOT DATE = 3/5/2020	DRAWN - AJD CHECKED - KRS	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEFT NO. 55-12 OF 55-19 SHEFTS				0. 60X94
F	JSER NAME = wjcolletti PLOT SCALE = NTS PLOT DATE = 3/5/2020	CHECKED - DJG PLOT SCALE = NTS DRAWN - AJD	CHECKED - REVISED - PLOT SCALE = NTS DRAWN - AJD REVISED -	CHECKED - Difference CHECKED - Difference PLOT SCALE = NTS DRAWN - AJD REVISED -	CHECKED DJG REVISED CHECKED - DJG REVISED PLOT SCALE = NTS DRAWN - AJD REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRILLED SOLDIER PILE WALL SECTION AND DETAILS 2 RETAINING WALL 37 (STRUCTURE NO. 016–1826)	CHECKED DJG REVISED All CHECKED DJG REVISED - CLOS SCALE = NTS DRAWN - AJD REVISED -	CHECKED DJG REVISED ALTONE CHECKED DJG REVISED - STATE OF ILLINOIS RETAINING WALL 37 (STRUCTURE NO. 016–1826) RTE. SCUTION PLOT SCALE = NTS DRAWN - AJD REVISED - DEPARTMENT OF TRANSPORTATION RETAINING WALL 37 (STRUCTURE NO. 016–1826) 90/94 2014-015R&B-R	CHECKED DJG REVISED STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DRILLED SOLDIER PILE WALL SECTION AND DETAILS 2 RTE. SECTION COUNT AND DETAILS 2 PLOT SCALE = NTS DRAWN - AJD REVISED - DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION REVISED - COUNT AND DETAILS 2 RTE. SECTION COUNT AND DETAILS 2 RTE. SECTION SECTION SECTION COUNT AND DETAILS 2 RTE. SECTION COUNT AND DETAILS 2 RTE. SECTION COUNT AND DETAILS 2 REVENUE SECTION SECTION SECTION COUNT AND DETAILS 2 RTE. SECTION COUNT AND DETAILS 2 RTE. SECTION COUNT AND DETAILS 2 RTE. SECTION SECTION

	<u>BILL</u>	<u>OF MA</u>	<u>BILL OF MATERIAL</u>						
Bar	No.	Size	Length	Shape					
d100(E)	117	#5	3'-0"	Π					
d102(E)	117	#5	6′-5″						
e100(E)	20	#5	33′-2″						
e101(E)	10	#5	29'-8"						
e105(E)	10	#5	23'-2"						
h107(E)	22	#5	23'-2"						
h108(E)	30	#5	33′-2″						
h109(E)	16	#5	29'-8"						
v108(E)	31	#5	18'-2"						
v109(E)	24	#5	21'-5"						
v110(E)	31	#5	11'-2"						
v115(E)	31	#5	14 '- 7"						
Structure	Excavati	ion	Cu. Yd.	67					
Concrete	Superstri	ucture	Cu. Yd.	24.4					
Stud Shee	or Connec	ctors	Each	81					
Reinforce	ment Bar	s,	Pound	6,420					
EDOWN CO	atod		, ound	0,120					

V St Co St Re Epoxy Coated Furnishing Soldier Piles 765 Foot (W Section) Drilling and Setting 3,731 Cu. Ft. Soldier Piles (In Soil) Untreated Timber Lagging Sq. Ft. 484 Concrete Structures Cu. Yd. 32.7 (Retaining Wall) Concrete Sealer Sq. Ft. 2,142 42 Geocomposite Wall Drain Sq. Yd.

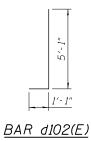
Pipe Underdrain for

Structures 4"

Notes: Parapet concrete shall be paid for as Concrete

Foot

Fascia panel concrete shall be paid for as Concrete Structures (Retaining Wall)

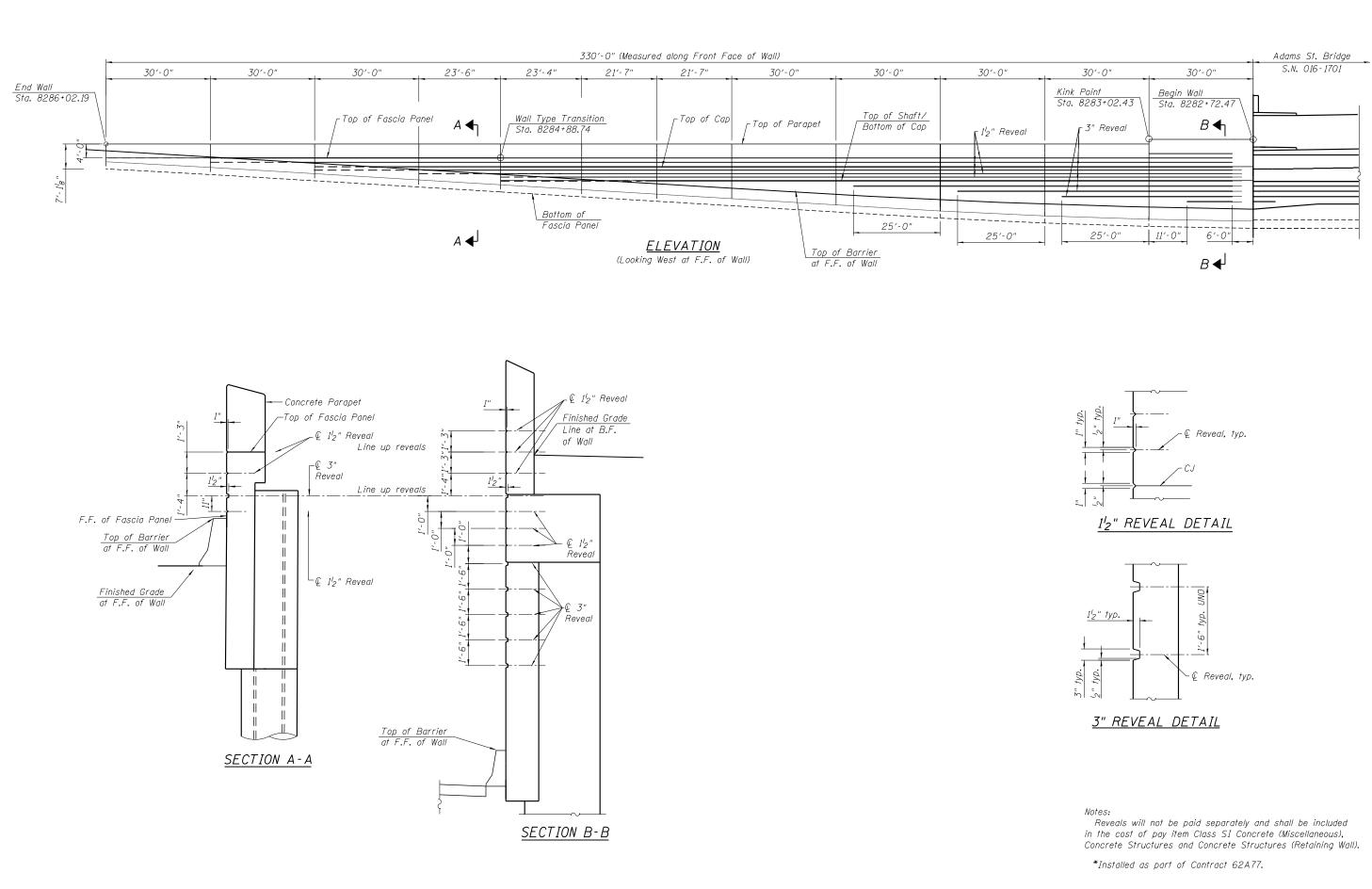




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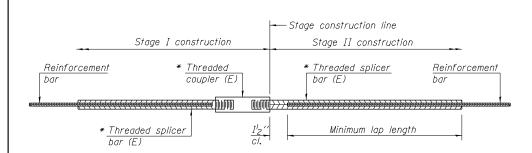
Minimum Bar Laps Lap Bar #5 3'-2"

RILL OF MATERIAL



0161826-60X94-S013-ArchDetails_1.dgn	
- 46 -	
00:14 PM	

	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		ARCHITECTURAL DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = NTS PLOT DATE = 3/5/2020		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 37 (STRUCTURE NO. 016–1826)	90/94	2014-015R&B-R	СООК	825	504
	PLOT SCALE = NTS PLOT DATE = 3/5/2020	DRAWN - AJD CHECKED - KRS	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. S5-13 OF S5-19 SHEETS		ILLINOIS FED.	CONTRACT	N0.	60X94



STANDARD BAR SPLICER ASSEMBLY

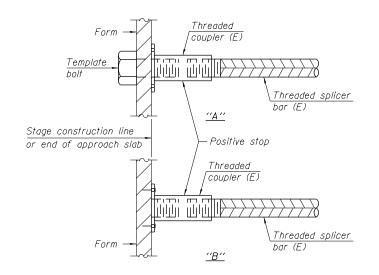
	Minimum Lap Lengths									
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6				

Table 1:Black bar, 0.8 Class CTable 2:Black bar, Top bar lap, 0.8 Class CTable 3:Epoxy bar, 0.8 Class CTable 4:Epoxy bar, Top bar lap, 0.8 Class CTable 5:Epoxy bar, Class CTable 6:Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + $1_{2}^{\prime\prime}$ + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

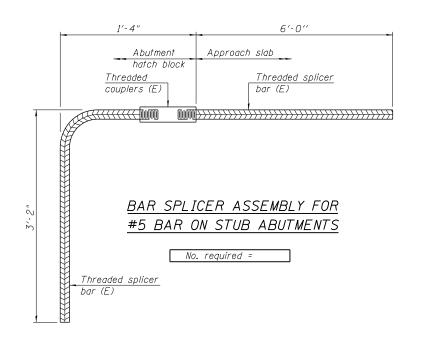
Location	Bar size	No. assemblies required	Table for minimum lap length



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



<u>NOTES</u>

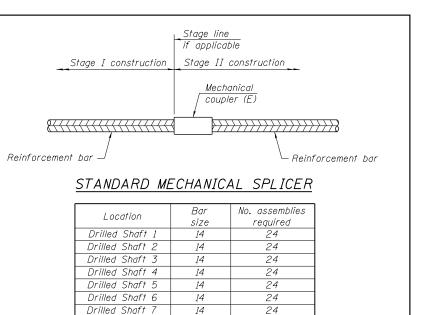
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements

for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

USER NAME = wjcolletti DESIGNED - KRS REVISED BAR SPLICER ASSEMBLY AND MED STATE OF ILLINOIS CHECKED - DJG REVISED **Tran** Systems` **RETAINING WALL 37 (STRUC** PLOT SCALE = NTS DRAWN - AJD REVISED **DEPARTMENT OF TRANSPORTATION** SHEET NO. S5-14 OF S PLOT DATE = 3/5/2020 CHECKED - KRS REVISED



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Drilled Shaft 8

Drilled Shaft 9

Drilled Shaft 10

Drilled Shaft 11

Drilled Shaft 12

Drilled Shaft 13

Drilled Shaft 14

Drilled Shaft 15 Drilled Shaft 16

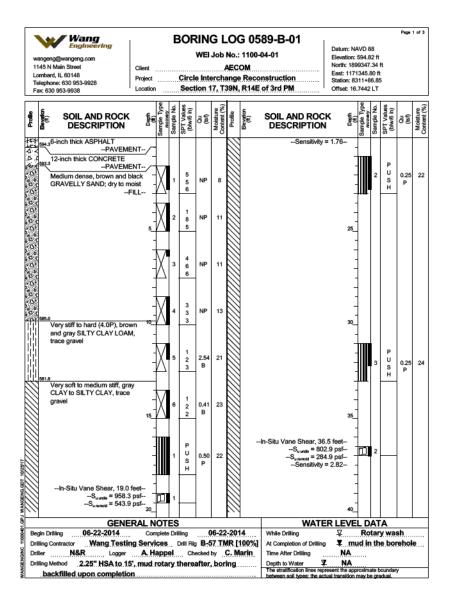
Drilled Shaft 17

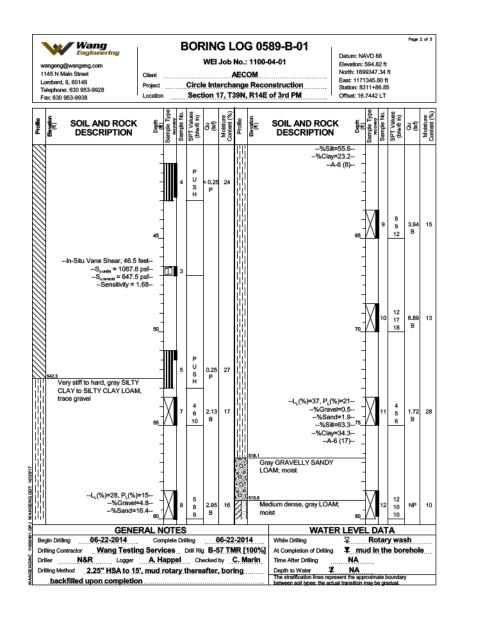
Drilled Shaft 18

Drilled Shaft 19

Drilled Shaft 20

ECHANICAL SPLICER DETAILS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JCTURE NO. 016–1826)	90/94	2014-015R&B-R	СООК	825	505
1020/			CONTRACT	NO.	60X94
S5-19 SHEETS		ILLINOIS FED. AI	D PROJECT		



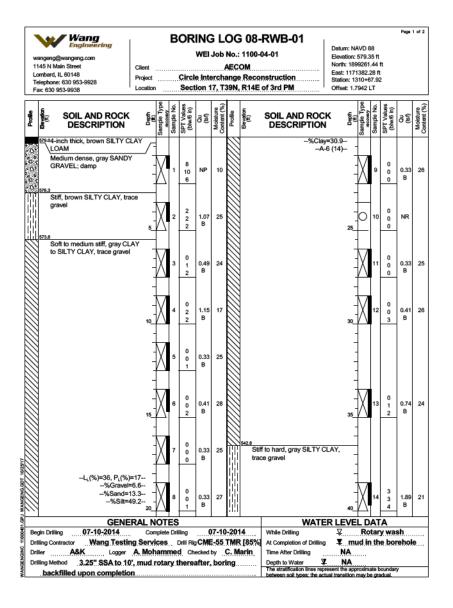


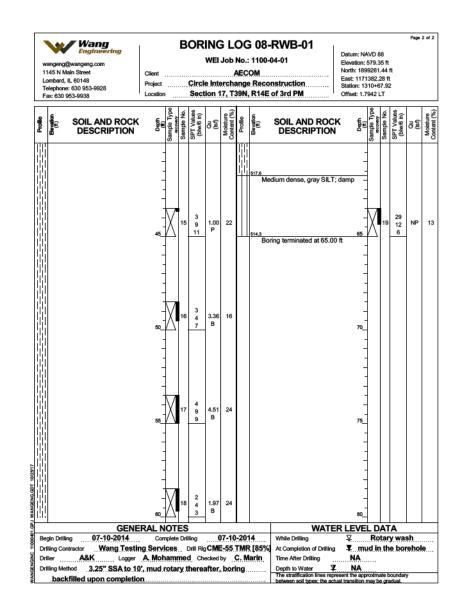


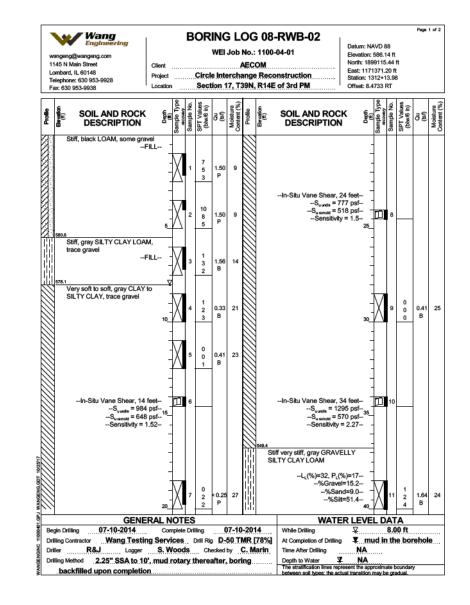
	USER NAME = wjcollett:	DESIGNED - KRS	REVISED -		BORING LOGS 1	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Tran Systems		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 37 (STRUCTURE NO. 016-1826)	90/94	2014-015R&B-R	СООК	825 506
	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION	· · · · ·	_		CONTRACT N	NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S5-15 OF S5-19 SHEETS		ILLINOIS FED.	AID PROJECT	

														Page	3 of 3
ng neering			B						89-B-01	Datum: N/		38		-	
com					WEI	Job	No.:	1100-	04-01	Elevation:	594.8	32 ft			
928	Client Project Location					ercha	ange		nstruction of 3rd PM	North: 189 East: 1171 Station: 83 Offset: 16	345.	80 f	t		
AND ROCK CRIPTION	Depth (#)	Sample Type accessy	Sample No.	SPT Values (blw/6 in)	ඉම්	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROO DESCRIPTION	K ()	Sample Type	Sample No.	SPT Values (blw/6 in)	ng)	Moisture Content (%)
fine to medium	- - - - - - - - - - - - - - - - - - -	X	13	12 16 17	NP	14									
LT DRILLING at grayish E fragments		X	14	13 17 20	NP	16									
HERED BEDRO	BAL	X	115	50/1	NP										
	- - - - 100														
GENE		_					- 00-			ER LEVE				-	
6-22-2014 Wang Testin Logger 25" HSA to 15 on completio	g Servi A. H ', mud i	appo	el C	Orill Rig	B-6 ecked	by 🤇	IR [C. M	100%] Iarin	While Drilling At Completion of Drilling Time After Drilling Depth to Water 3 The stratification lines rej between soil types: the as	NA V NA	id ir	ate I	e boi	rehol	e

Boring Log 0589-B-01 Station and Offset along ₽ Jackson Exit Ramp are: Sta. 8282+22.07, Offset 15.66′ Rt.

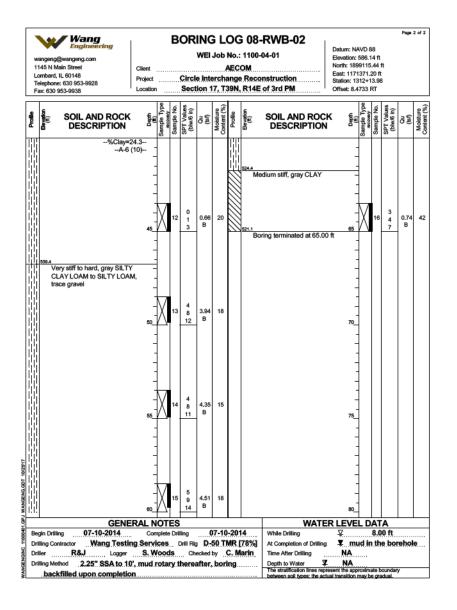


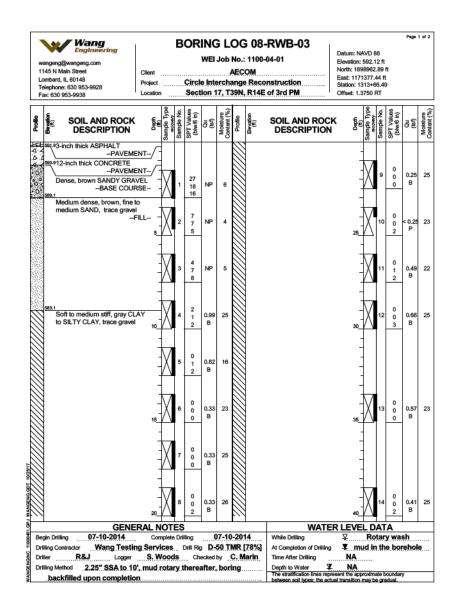


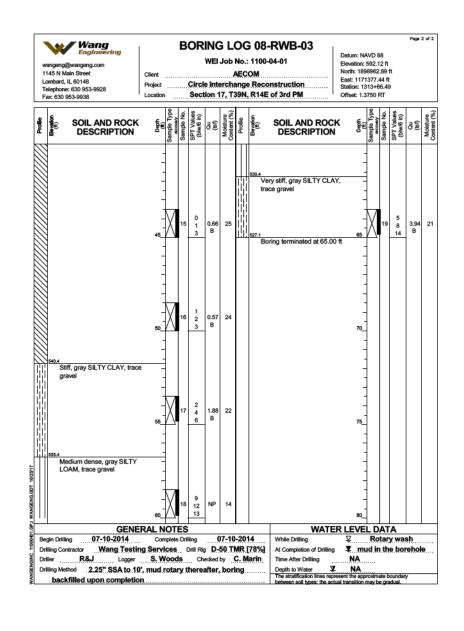


Tran Systems >	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
		CHECKED - DJG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETAINING WALL 37 (STRUCTURE NO. 016–1826)	90/94	2014-015R&B-R	СООК	825 507
	PLOT SCALE = NTS PLOT DATE = 3/5/2020	DRAWN - LFP CHECKED - KRS	REVISED - REVISED -		SHEET NO. S5-16 OF S5-19 SHEETS		ILLINOIS FED. 4	CONTRAC	T NO. 60X94

Boring Log 08-RWB-01 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8283+04.84, Offset 22.79' Lt. Boring Log 08-RWB-02 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8284+52.34, Offset 23.85' Lt.

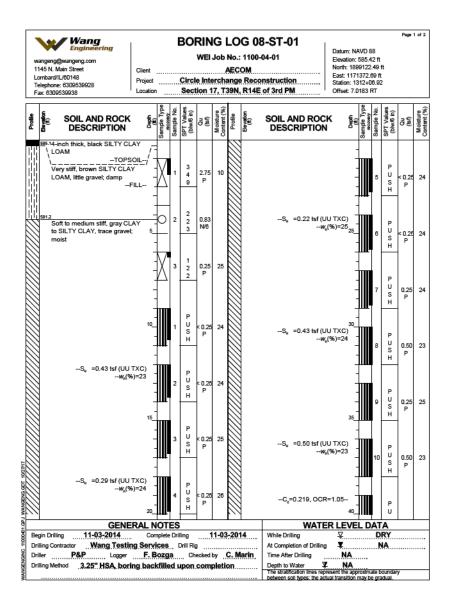


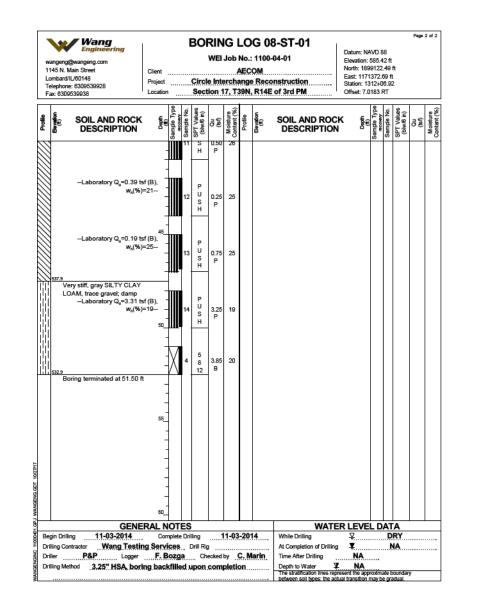


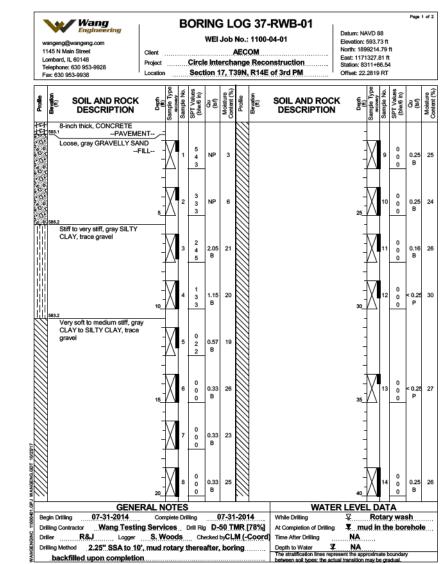


	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 3	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Tran Systems		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 37 (STRUCTURE NO. 016–1826)	90/94	2014-015R&B-R	СООК	825 508
	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S5-17 OF S5-19 SHEETS		ILLINOIS FED. /	AID PROJECT	

Boring Log 08-RWB-02 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8284+52.34, Offset 23.85' Lt. Boring Log 08-RWB-03 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8286+05.39, Offset 31.68' Lt.

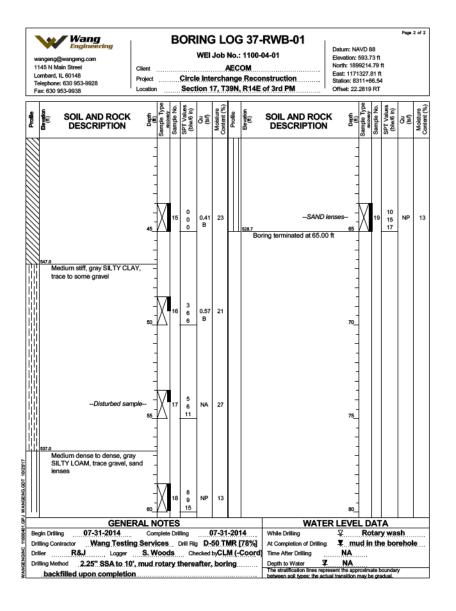


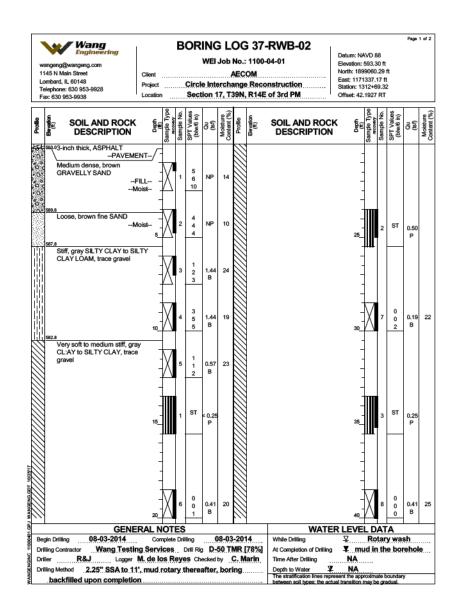


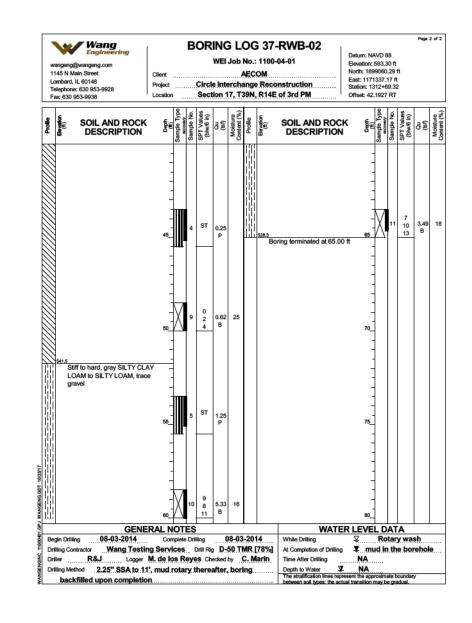


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	CHECKED - DJG	REVISED -		RETAINING WALL 37 (STRUCTURE NO 016-1826)	90/94	2014-015R&B-R	СООК	825 509
PLOT SCALE = NTS PLOT DATE = 3/5/2020	DRAWN - LFP REVISED - CHECKED - KRS REVISED -		DEPARTMENT OF TRANSPORTATION					NO. 60X94
	PLOT SCALE = NTS	CHECKED - DJG PLOT SCALE = NTS DRAWN - LFP	CHECKED - DJG REVISED - PLOT SCALE = NTS DRAWN - LFP REVISED -	CHECKED - DJG REVISED - STATE OF ILLINOIS PLOT SCALE = NTS DRAWN - LFP REVISED - DEPARTMENT OF TRANSPORTATION	CHECKED - DJG REVISED - STATE OF ILLINOIS BORING LOGS 4 PLOT SCALE = NTS DRAWN - LFP REVISED - DEPARTMENT OF TRANSPORTATION RETAINING WALL 37 (STRUCTURE NO. 016–1826)	CHECKED DJG REVISED STATE OF ILLINOIS BORING LOGS 4 RTE. PLOT SCALE = NTS DRAWN - LFP REVISED - DEPARTMENT OF TRANSPORTATION RETAINING WALL 37 (STRUCTURE NO. 016–1826) 90/94	CHECKED DJG REVISED STATE OF ILLINOIS PLOT SCALE = NTS DRAWN - LFP REVISED -	CHECKED DJG REVISED STATE OF ILLINOIS PLOT SCALE = NTS DRAWN - LFP REVISED - CONT

Boring Log 08-ST-01 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8284+45.20, Offset 25.14' Lt. Boring Log 37-RWB-01 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8283+54.88, Offset 23.83' Rt.







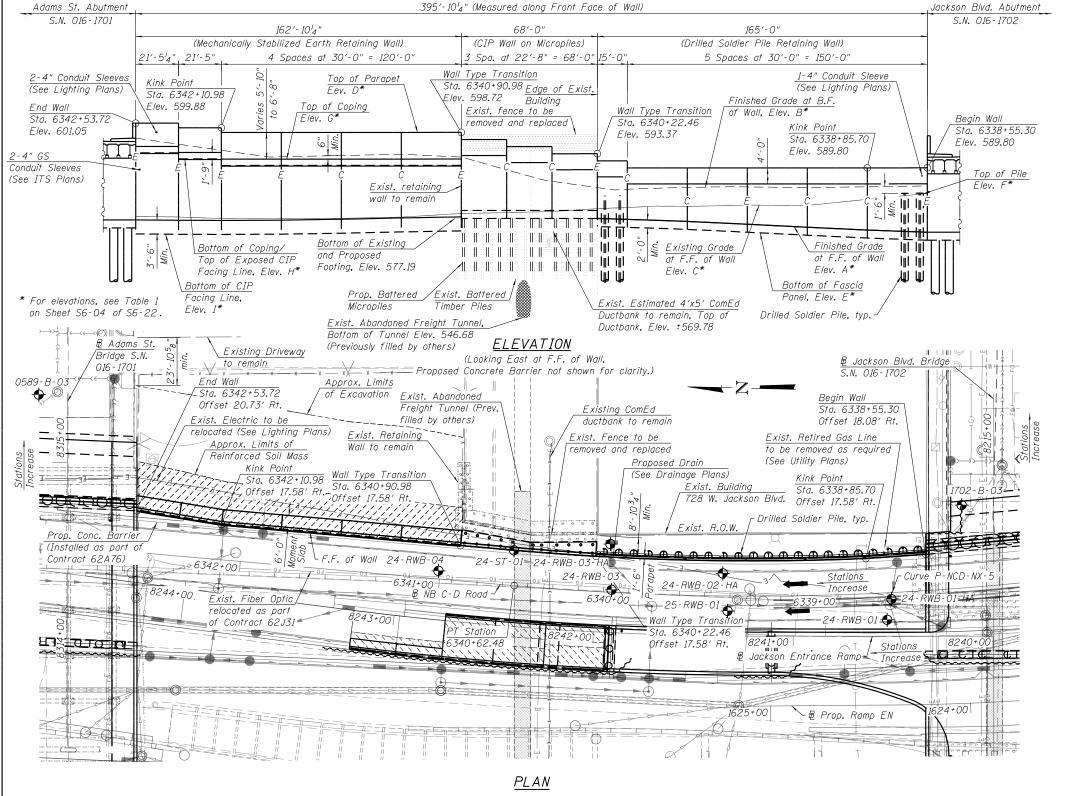
	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 5	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Tran Systems		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 37 (STRUCTURE NO. 016–1826)	90/94	2014-015R&B-R	СООК	825 510
	PLOT SCALE = NTS PLOT DATE = 3/5/2020	DRAWN - LFP CHECKED - KRS	DEFARIMENT OF TRANSFORTATION		SHEET NO. 55-19 OF S5-19 SHEETS				CT NO. 60X94
	1201 BHTE - 3/3/2020	CHECKED KKS	REVISED -		SHEET NO. 33 13 01 33 13 SHEETS		ILLINUIS FED. 7	AID PROJECT	

Boring Log 37-RWB-01 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8283+54.88, Offset 23.83' Rt. Boring Log 37-RWB-02 Station and Offset along ₿ Jackson Exit Ramp are: Sta. 8285+08.25, Offset 9.13' Rt. Bench Mark: Set "X" on east barrier wall of I-90 at C of Adams Street. Elev. 581.17.

Existing Structure: Existing Retaining Wall at Quincy Street. Constructed in 1957 under F.A.I. Route 2, Section 0101.6-2P. Cast-in-place concrete retaining wall on battered timber piles that measures approximately 98'-0" at the end of Quincy Street north of Existing Building at 728 W. Jackson Boulevard. Maximum height from top of wall to bottom of footing measures 17'-0". The existing retaining wall is to remain.

Traffic on I-90/94 will be maintained with stage construction.





Notes:

Wall offsets are measured from the B of NB C-D Road to

the front face of cast-in-place fascia panels.

C denotes Construction Joint

E denotes Expansion Joint

F.F. denotes Front Face.

B.F. denotes Back Face.

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5X0		USER NAME = wjcolletti	DESIGNED - KRS	REVISED -			F.A.I. BTE	SECTION	COUNTY TOTAL SHEET
9	ran Systems >		CHECKED - DJG	REVISED -	STATE OF ILLINOIS		90/94	2014-015R&B-R	СООК 825 511
10 29		PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60X94
		PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-01 OF S6-22 SHEETS		ILLINOIS FED.	AID PROJECT

CURVE DATA

(NB C-D Road) Prop. Curve P-NCD-NX-5 P.I. Sta. = 6336+57.47 ⊿ = 35° 13′ 41″ (RT) D = 4° 12′ 24″ R = 1,362.00' T = 432.42'L = 837.42 E = 67.00' e = 4.20% T.R. = 42' S.E. Run = 87' P.C. Sta. = 6332+25.05 P.T. Sta. = 6340+62.48

Range 14E, 3rd P.M. Proposed Structure LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications 8th Edition

DESIGN STRESSES FIELD UNITS

- f'c = 5,000 psi (Micropile Grout)
- f'c = 4,000 psi (Superstructure Concrete)
- f'c = 3,500 psi (All other concrete)
- fy = 60,000 psi (Reinforcement)
- fy = 60,000 psi (Micropile Casing)
- fu = 150,000 psi (Micropile Threadbar)

SOLDIER PILES

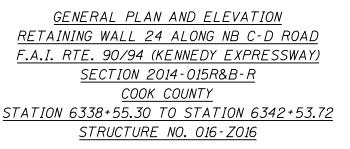
fy = 50,000 psi (AASHTO M270 Gr. 50)

EN D. SAN 081-007244 LICENSED STRUCTURAL * * FNGINFER THE OF ILLING OF 03-06-2020

MATTHEW D. SANTEFORD P.E., S.E. NO. 081-007244 EXP. DATE 11/30/2020

LEGEND:

Ex. Chain Link Fence	— x — x -	Ex. Gas Line	н С н
Combined Sewer	\rightarrow	Ex. Fiber Optic	——— F0 —
Electric	———— E ———	Soil Boring	•
Ex. Storm Sewer		Existing Catch Basin	\bigcirc
Prop. Storm Sewer	>	Proposed Catch Basin	
Ex. ITS Cable		Existing Manhole	\bigcirc
Limits of Soil Reinf.		Proposed Inlet	-



GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- 2. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent building foundations. Any damage during construction shall be repaired by the Contractor at his expense and no charge to the department. Driving piles and temporary sheet piling is not allowed.
- 3. The Contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provisions for Construction Vibration Monitoring and Monitoring Adjacent Structures, to ensure that removal/construction activities in the vicinity of the structures do not have detrimental effects on building foundations. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during removal/ construction activities to satisfy these requirements. See Contract Special Provisions for details.
- 4. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work,
- 5. Slipforming of parapets is not allowed.
- 6. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor.
- 7. MSE Wall supplier shall design the MSE Wall using granular reinforced mass with minimum effective internal friction angle of 34 degrees and unit weight of 120 lbs./cu. ft.. For embankment behind aranular reinforced mass, an embankment unit weight of 120 lbs./cu, ft, and an effective friction angle of 30 degrees shall be used in the wall system design.
- 8. All Lightweight Cellular Concrete Fill shall be Class I, See Special Provisions. 9. Wall to be built along straight chords between construction and expansion joints.
- 10. Concrete Sealer shall be applied to the exposed top, front, and back faces of the parapet, front faces of the coping and fascia panels, and front face of existing retainina wall.
- 11. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of aranular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.
- 12. The Contractor shall take all necessary precautions not to contaminate groundwater during the drilled shaft construction operation. Contractor is responsible for the proper containment and disposal of the contaminated groundwater and spoils resulting from the Contractor's means and methods. No additional cost will be paid for this effort.
- 13. Wall repair locations are approximate and were determined from field inspection performed at the time of plan preparation. The necessary adjustments based on current field conditions will be made at time of construction. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the actual quantity furnished at the unit price bid for the work.
- 14. The Contractor shall take precautions not to damage existing retaining wall during the construction. Any damage to the existing retaining wall shall be repaired by the Contractor at no additional cost.
- 15. The contractor shall coordinate the construction of the proposed structure with the construction of the Proposed Adams Street and Jackson Blvd. Bridges. See MOT plan sheets and special provisions, including the Available Work Areas and Sequencing Requirements special provision, for additional construction and coordination requirements.
- 16. The Contractor shall provide a method to assure the soldier piles achieve at least the plan tip elevations. The soldier pile locations and elevations shall meet the tolerances provided in the Special Provisions. Any additional measures required to satisfy the construction tolerances will not be paid for separately but shall be included in Drilling and Setting Soldier Piles (In Soil).
- 17. Soldier piles shall be cleaned and given one shop coat of Inorganic Zinc Rich Primer. Cost included with Furnishing Soldier Piles (W Section).

INDEX OF SHEETS

- S6-01 General Plan and Elevation
- S6-02 General Data
- S6-03 Typical Cross Sections 1 S6-04 Typical Cross Sections 2
- S6-05 Repair Plans
- Parapet and Anchorage Slab Plan and Elevation 56-06
- S6-07 Parapet and Anchorage Slab Details
- S6-08 Cast-In-Place Wall Plan and Flevation
- 56-09 Cast-In-Place Wall Details
- S6 10 Drilled Soldier Pile Wall Plan and Elevation 1
- Drilled Soldier Pile Wall Plan and Elevation 2 S6 - 11
- 56-12 Drilled Soldier Pile Wall Details 1
- S6-13 Drilled Soldier Pile Wall Details 2 S6 - 14 Architectural Details
- S6 15 Chain Link Fence Attached to Structure
- S6 16 Boring Logs 1
- S6 17 Boring Logs 2
- S6 18 Boring Logs 3
- S6 19 Boring Logs 4
- S6-20 Boring Logs 5 S6-21 Boring Logs 6
- S6-22 Boring Logs 7
 - 0-1.15% 15% 0.50% 1.15% *Sta.* 6343+15.0 577.57 Sta. 6340+40.00 578.67 *Sta.* 6341+20.00 577.75 *Sta.* 6341+40.(577.52 *Sta.* 6342+40.00 577.20 <u>576.72</u> 8 <u>Sta. 6341+90.(</u> . 576.95 70.50%8 *Sta.* 6339+00.0 575.25 *Sta.* 6338+10.00 573.92 PVI Sta. 6338+55 Elev. 574.15 PVC : Elev. PVC S PVI Elev. PVT Elev. PVI SELEV. PVT VC = 160 VC = 100' PVT Elev. VC = 90' PROFILE GRADE

- Retaining Wall.

- retainina wall.
- from damage.

(₽ NB C-D Road)

TOTAL BILL OF MATERIAL

Item	Unit	Total Quantity
Structure Excavation	Cu. Yd.	880
Concrete Superstructure	Cu. Yd.	168.5
Stud Shear Connectors	Each	425
Reinforcement Bars, Epoxy Coated	Pound	34,340
Name Plates	Each	1
Permanent Casing	Foot	1,081
Furnishing Soldier Piles (W Section)	Foot	1,298
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	13,928
Untreated Timber Lagging	Sq. Ft.	1,594
Concrete Structures (Retaining Wall)	Cu. Yd.	169.0
Concrete Sealer	Sq. Ft.	10,464
Epoxy Crack Injection	Foot	68
Geocomposite Wall Drain	Sq. Yd.	197
Graffiti Removal	Sq. Yd.	114
Micro-Piles	Each	22
Micropile Load Test	Each	1
Micropile Proof Load Test	Each	1
Lightweight Cellular Concrete Fill	Cu. Yd.	4,162
Slope Inclinometer	Each	1
Chain Link Fence Removal (Special)	Foot	97
Chain Link Fence, 4' Attached to Structure	Foot	97
Structural Repair of Concrete	Sq. Ft.	3
(Depth equal to or less than 5 Inches)		
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.	2,865
Pipe Underdrain for Structures 4"	Foot	233

STATION 6338+55.30 TO 6342+53.72 BUILT 20__ BY STATE OF ILLINOIS F.A.I. RTE. 90/94 SEC. 2014-015R&B-R LOADING HL-93 STR. NO. 016-Z016

NAME PLATE See Std. 515001

SEQUENCE OF CONSTRUCTION

1. Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s). See Utility Location Plans and ITS Plans.

2. Conduct repairs on existing retaining wall to remain.

3. Install drilled soldier piles for Retaining Wall 24.

4. Excavate in front of piles to finished grade, installing lagging system in the process.

5. Excavate for the remainder of Retaining Wall 24 and install micropiles for CIP Wall.

6. Drill and grout bars into existing retaining wall footing and construct Cast-In-Place

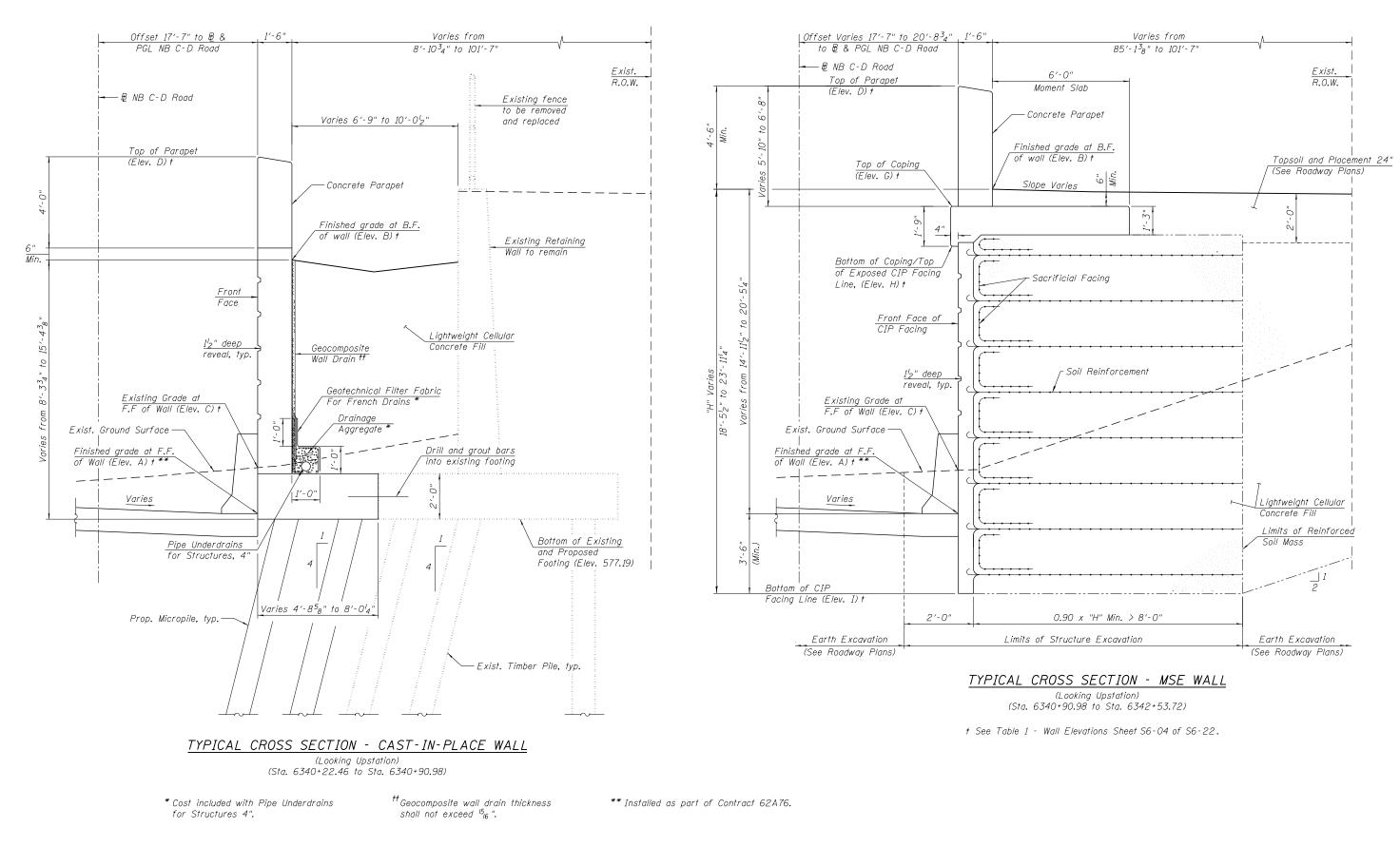
7. Construct Mechanically Stabilized Earth Retaining Wall and begin placing Lightweight Cellular Concrete Fill.

8. Construct Cast-In-Place facing for drilled soldier pile and MSE Walls.

9. Construct concrete parapet and anchorage slab and replace fence on existing

10. No portions of the wall shall be compromised by excavation for other elements of work, including the East Abutment of Structures No. 016-1701 and 016-1702, under the contract. If the sequencing of work requires that the wall construction is staged, the stage line shall be located at a panel edge with any exposed lightweight fill protected

DATA	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
JCTURE NO. 016–Z016)	90/94	2014-015R&B-R	COOK	825	512	
5010HE NO. 010-2010/			CONTRACT	NO.	60X94	
S6-22 SHEETS	ILLINOIS FED. AID PROJECT					



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Trop Sustama	CHECKED - DJG REVISED -		STATE OF ILLINOIS		90/94	2014-015R&B-R	СООК	825 513	
Tran Systems >	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	30, 31		CONTRACT	NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-03 OF S6-22 SHEETS		ILLINOIS FED.	AID PROJECT	

	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Elevation H	Elevation I	Wall Type
F	6338+55.30	18.08′ Rt.	573.70	585.09	583.38	589.80	571.70	583.38	-	-	-	
	6338+85.70	17.58′ Rt.	574.25	585.07	581.93	589.80	572.25	583.38	-	-	-	
	6339+16.09	17.58′ Rt.	574.97	585.06	580.41	589.80	572.97	583.38	-	-	-	Drilled
	6339+46.48	17.58' Rt.	575.71	585.04	580.50	589.80	573.71	583.38	-	-	-	Soldier
	6339+76.88	17.58' Rt.	576.43	584.90	580.20	589.80	574.43	583.38	-	-	-	Pile
<i>†</i>	6340+07.27	17.58' Rt.	576.95	584.91	579.92	589.80	574.95	583.38	-	-	-	Wall
ŧ [6340+07.27	17.58' Rt.	576.95	584.91	579.92	591.58	574.95	583.38	-	-	-	
<i>†</i>	6340+22.46	17.58' Rt.	577.13	585.50	579.64	591.58	575.13	583.38	-	-	-	
ŧ	6340+22.46	17.58' Rt.	577.13	585.50	579.64	593.37	-	-	-	-	-	
<i>†</i>	6340+45.43	17.58' Rt.	577.39	586.65	578.91	593.37	-	-	-	-	-	
ŧ [6340+45.43	17.58′ Rt.	577.39	586.65	578.91	595.15	-	-	-	-	-	CIP
<i>†</i>	6340+68.31	17.58′ Rt.	577.59	589.40	578.65	595.15	-	-	-	-	-	Wall
<i>†</i>	6340+68.31	17.58' Rt.	577.59	589.40	578.65	596.93	-	-	-	-	-	
<i>†</i>	6340+90.98	17.58' Rt.	577.59	592.55	578.44	596.93	-	-	-	-	-	
<i>†</i>	6340+90.98	17.58' Rt.	577.59	592.55	578,44	598.72	-	-	592.05	590.30	574.09	
	6341+20.98	17.58' Rt.	577.34	593.26	577.54	598.72	-	-	592.05	590.30	573.84	
	6341+50.98	17.58' Rt.	577.01	592.94	577.24	598.72	-	-	592.05	590.30	573.51	
	6341+80.98	17.58' Rt.	576.79	593.60	577.14	598.72	-	-	592.05	590.30	573.29	
<i>†</i>	6342+10.98	17.58' Rt.	576.72	594.27	577.19	598.72	-	-	592.05	590.30	573.22	MSE
ŧ [6342+10.98	17.58′ Rt.	576.72	594.27	577.19	599.88	-	-	593.72	591.97	573.22	Wall
ŧ [6342+32.34	19.16′ Rt.	576.77	595.78	577.59	599.88	-	-	593.72	591 . 97	57 3. 27	
ŧ [6342+32.34	19.16′ Rt.	576.77	595.78	577.59	601.05	-	-	595.22	593.47	573.27	
	6342+53.72	20.73' Rt.	576.87	597.30	577.74	601.05	-	-	595.22	593.47	573.37	1

Elevation A- Finished Grade at Front Face of Wall **

Elevation B- Finished Grade at Back Face of Wall

Elevation G- Top of Coping

Elevation H- Bottom of Coping / Top of Exposed

CIP Facing Line

Elevation I- Bottom of CIP Facing Line

t Elevations just to the right of joint

tt Elevations just to the left of joint

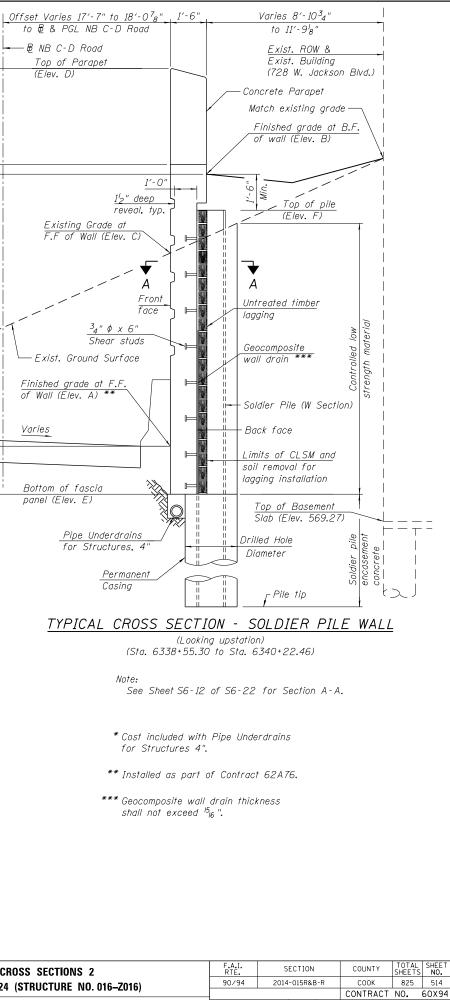
Elevation C- Existing Grade at Front Face of Wall Elevation D- Top of Parapet

Elevation E- Bottom of Fascia Panel Elevation F- Top of Pile

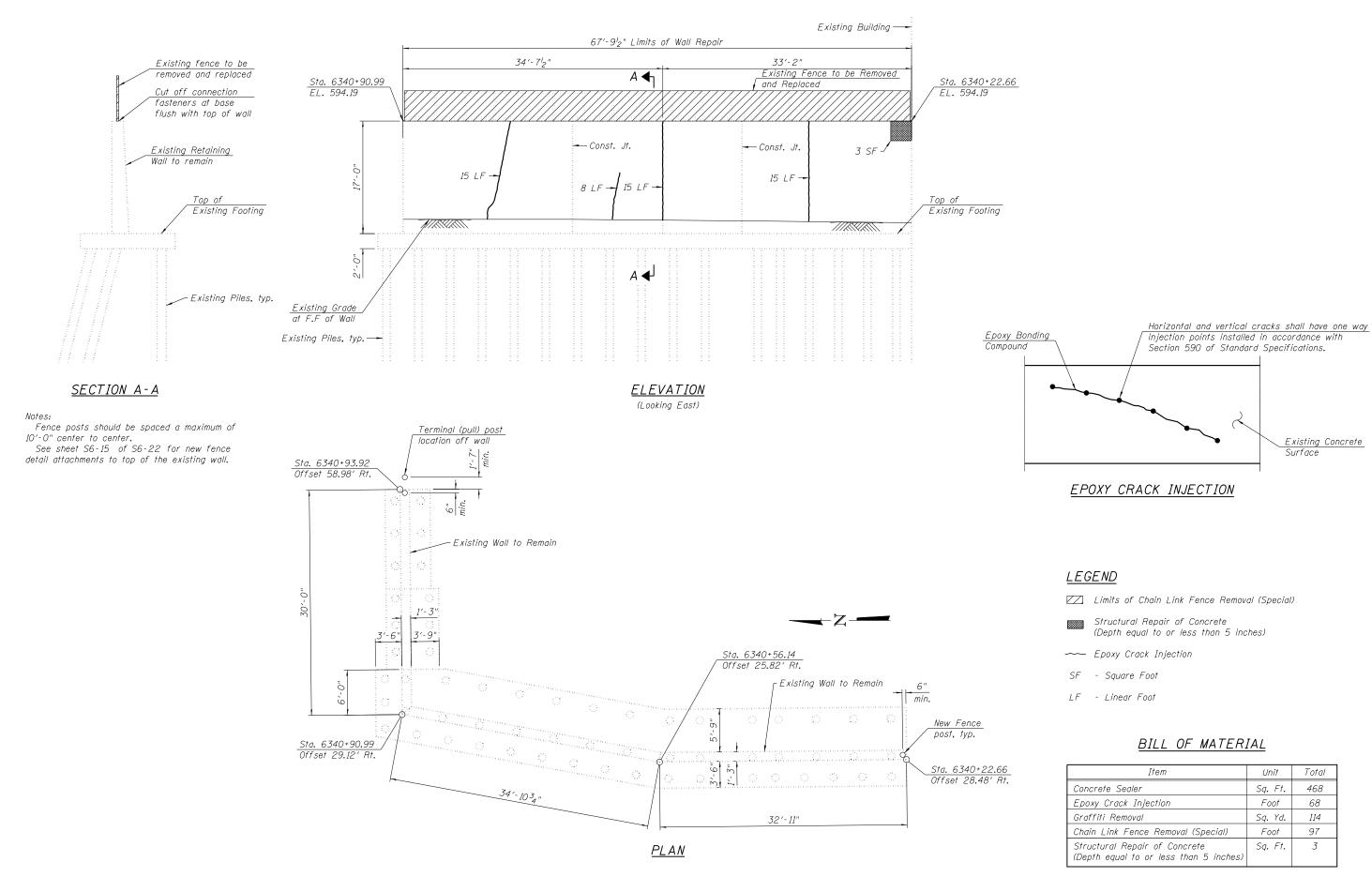


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Tran Systems >	USER NAME = wjcolletti PLOT SCALE = NTS	DESIGNED - KRS CHECKED - DJG DRAWN - LFP	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTIO RETAINING WALL 24 (STRUCTUR
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-04 OF S6-22



ILLINOIS FED. AID PROJECT

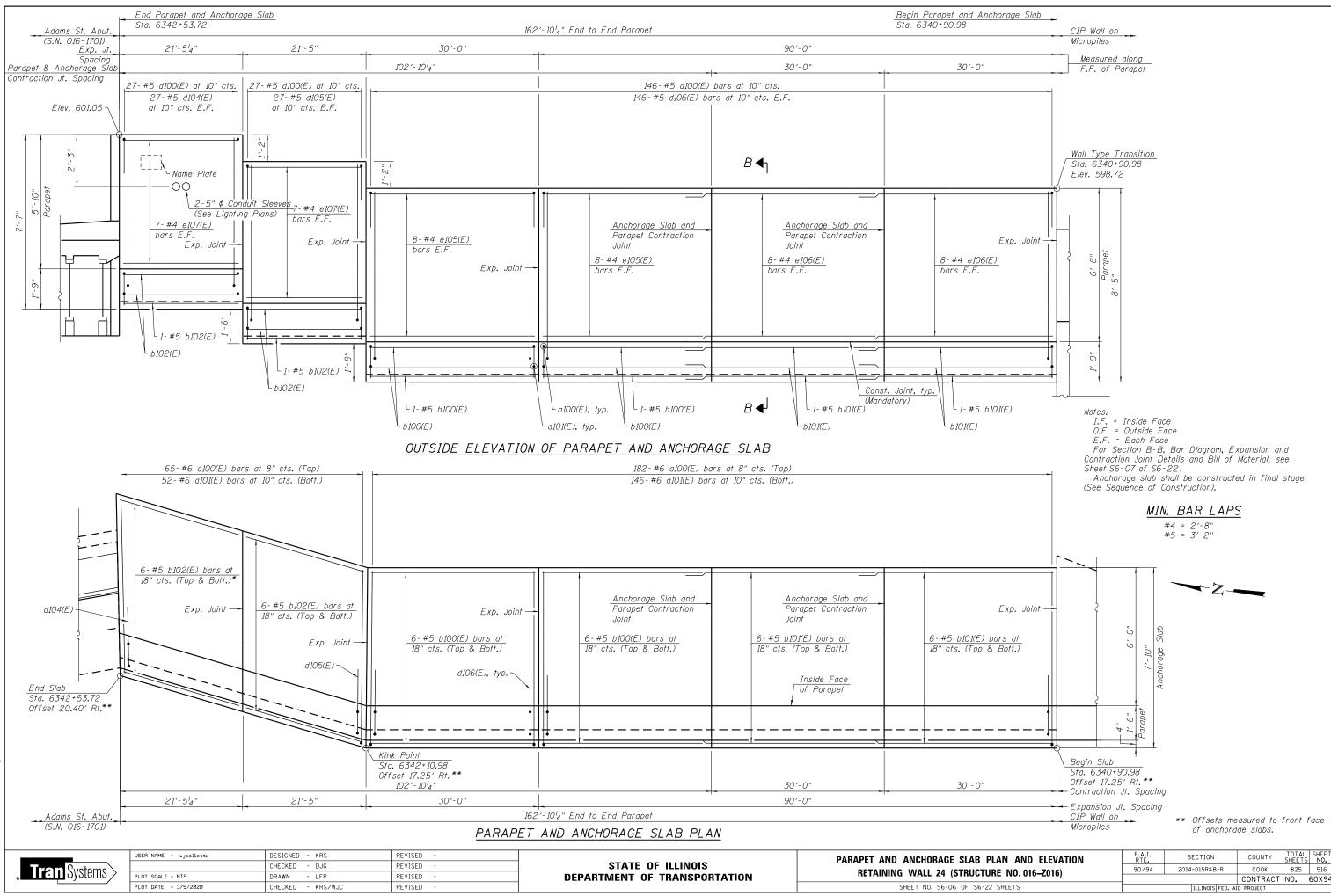


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" Lran Systems >	PLOT SCALE = NTS	DRAWN - AJD	REVISED -	DEPARTMENT OF TRANSPORTATION	RETAINING WALL 24 (STRUCT
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-05 OF S6-

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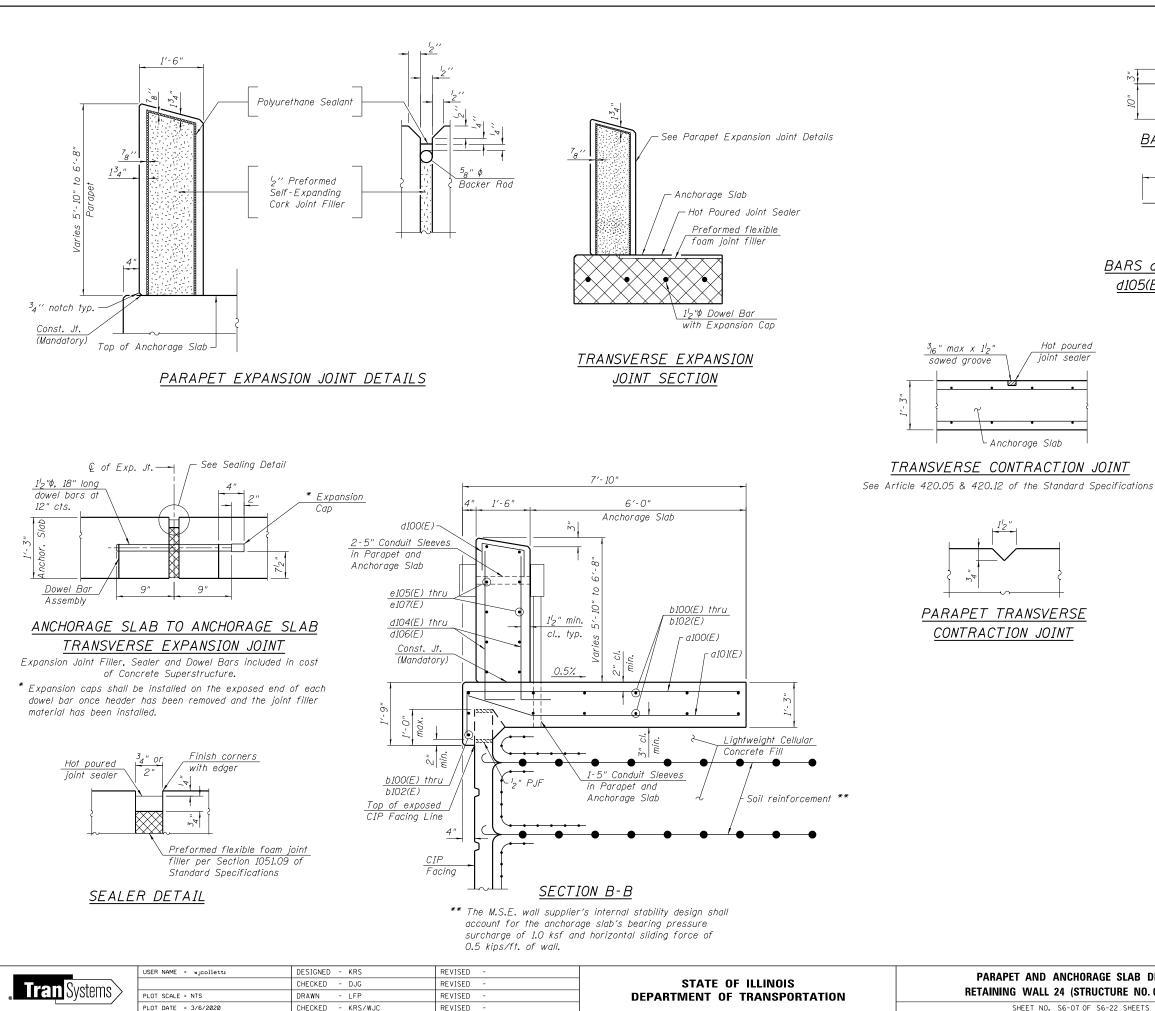
Item	Unit	Total
Concrete Sealer	Sq. Ft.	468
Epoxy Crack Injection	Foot	68
Graffiti Removal	Sq. Yd.	114
Chain Link Fence Removal (Special)	Foot	97
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	3

	LANS	F.A.I. RTE.	S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 60X94	UCTURE NO 016_7016)	90/94	2014	-015R&B	-R	СООК	825	515
SC-22 SHEETS	0010HE NO. 010-2010)					CONTRACT	NO.	60X94
S6-22 SHEE IS ILLINOIS FED. AID PROJECT	S6-22 SHEETS			ILLINOIS	FED. AI	D PROJECT		

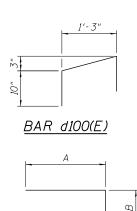


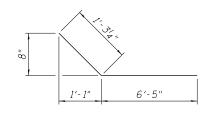
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AB PLAN AND ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JCTURE NO. 016–Z016)	90/94	2014-015R&B-R	COOK	825	516
JOIONE 140.010-2010/			CONTRACT	NO.	60X94
S6-22 SHEETS		ILLINOIS FED. A	ID PROJECT		

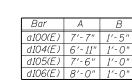


SHEET NO. S6-07 OF





BAR alOI(E)



BARS a100(E), d104(E), d105(E) and d106(E)

BILL OF MATERIAL

Par	No.	Size	Loogth	Shapp
Bar			Length	Shape
a100(E)	247	#6	9'-0"	
a101(E)	198	#6	7′-8″	
<i>Ь100(Е)</i>	26	#5	29′-8″	
<i>Ь101(Е)</i>	26	#5	33′-2″	
b102(E)	26	#5	21'-1"	
d100(E)	202	#5	3'-0"	\square
d104(E)	54	#5	7'-11"	
d105(E)	54	#5	8′-6″	
d106(E)	292	#5	9′-0″	
e105(E)	32	#4	29′-8″	
e106(E)	32	#4	32′-8″	
e107(E)	28	#4	21'-1"	
Structure	Excavati	ion	Cu, Yd,	643
Concrete	Superstri	ucture	Cu. Yd.	118.3
Reinforce Epoxy Co		Pound	13,920	
Concrete	Sealer	Sq. Ft.	4,775	
Lightweigi	ht Cellulai	Sq. Ft.	3,938	
Concrete	Fill			
Mechanica	illy Stabili	Sq. Ft.	2,865	
Earth Rei	taining Wa	<i>ɔ</i> //,		
Special	-			
· ·			l	

Notes:

All edges shall be chamfered $\frac{3}{4}$ inches.

Bars indicated thus 3x4-#5 etc. indicates 3 lines of bars with 4 lengths per line.

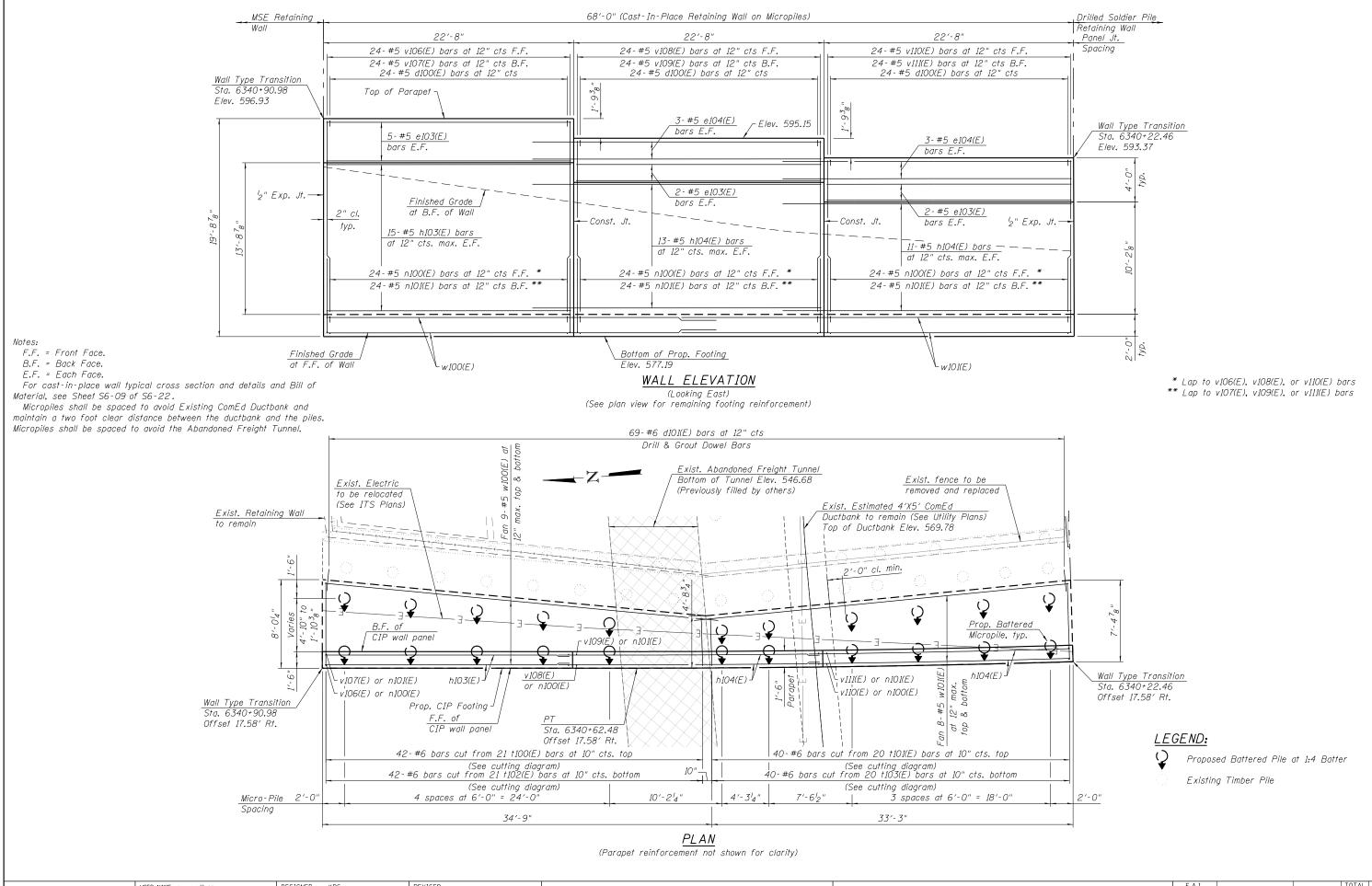
See Sheet S6-02 of S6-22 for additional notes for MSE wall suppliers.

The Polyurethane Sealant shall be according to Article 1050.04 of Std. Spec. and the color shall be gray. Furnishing and installing conduit sleeves is included in

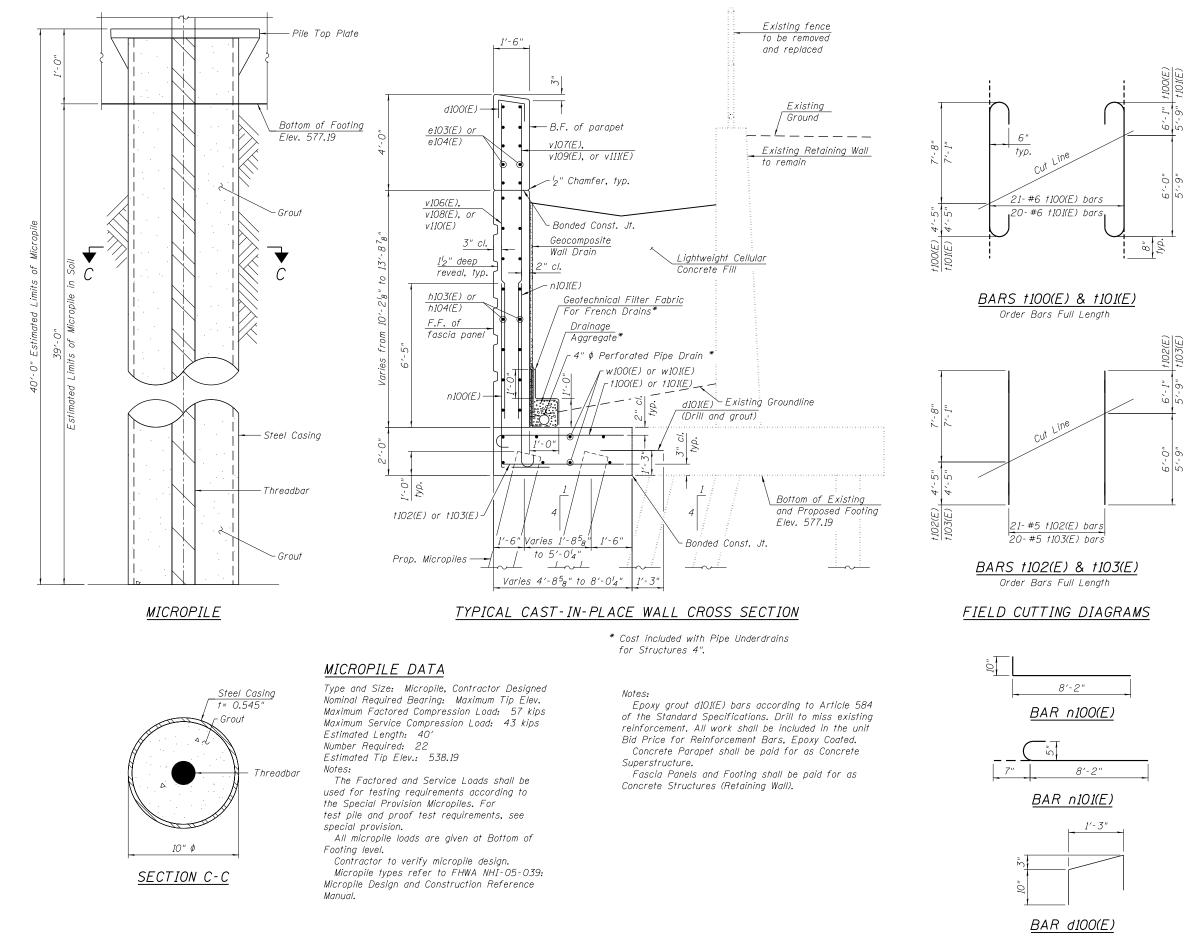
cost of Concrete Superstructure. Coordinate location of sleeves for lighting conduit with

Lighting Plans.

AGE SLAB DETAILS	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
UCTURE NO. 016–Z016)	90/94	2014-015R&B-R	COOK	825	517
0010HE NO. 010-2010/			CONTRACT	NO.	60X94
S6-22 SHEETS	ILLINOIS FED. AID PROJECT				



	USER NAME = wjcollettı	DESIGNED - KRS	REVISED -		CAST-IN-PLACE WALL PLAN AND ELEVATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
Tran Systems >	PLOT SCALE - NTS	DRAWN - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК	825 518	
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. S6-08 OF S6-22 SHEETS		ILLINOIS FED.		CONTRACT NO. 60X94	



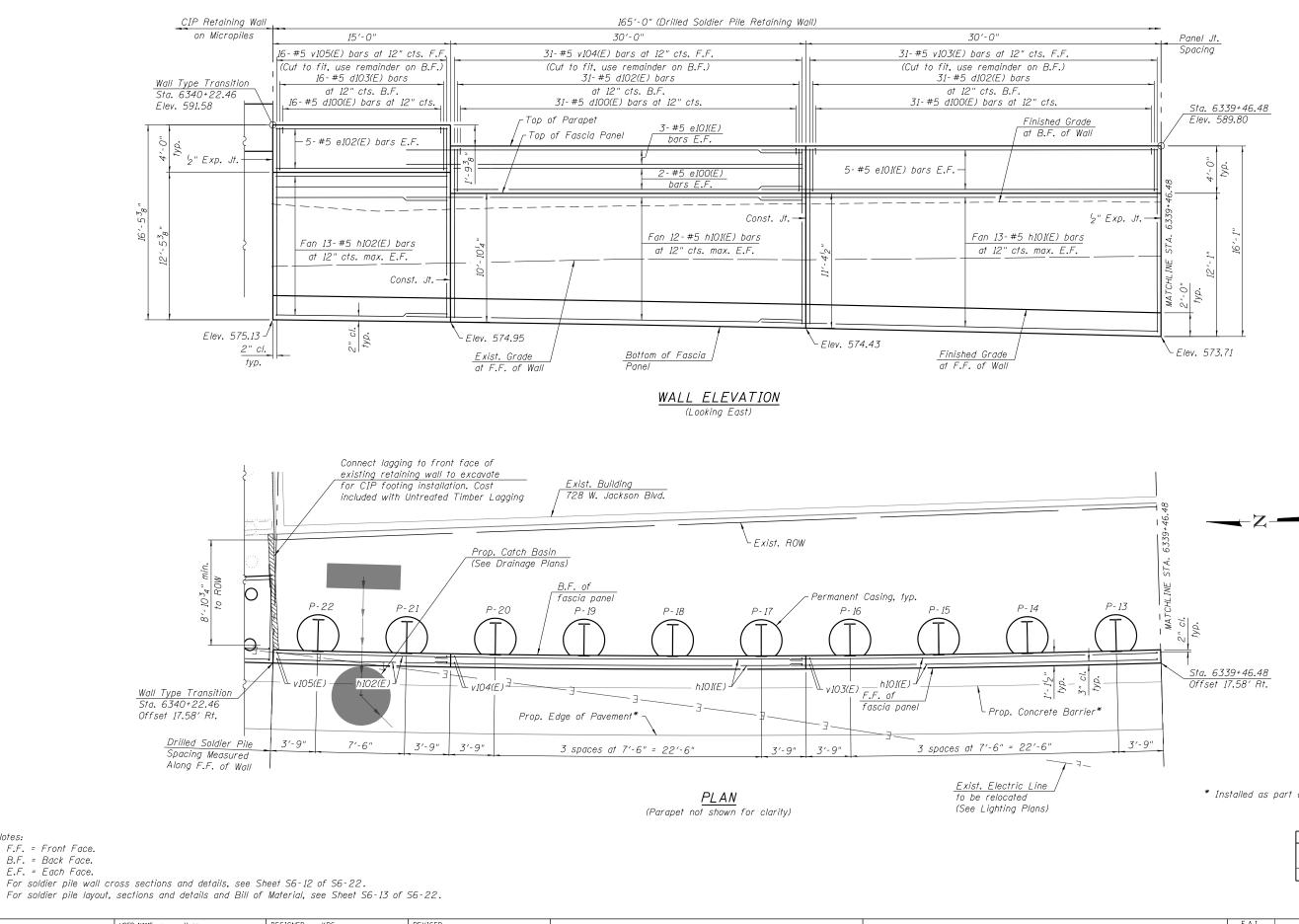
	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		CAST-IN-PLACE WALL DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Tran Systems		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК	825 519
	PLOT SCALE = NTS	DRAWN - AJD	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT I	NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-09 OF S6-22 SHEETS		ILLINOIS FED.	AID PROJECT	

E.)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	72	#5	3'-0"	
d101(E)	69	#6	2'-6"	
e103(E)	18	#5	22'-4"	
e104(E)	12	#5	25′-10″	
h103(E)	30	#5	22'-4"	
h104(E)	48	#5	25′-10″	
n100(E)	72	#5	9'-0"	L
n101(E)	72	#5	8′-9″	
v106(E)	24	#5	17'-4"	
v107(E)	24	#5	17'-1"	
v108(E)	24	#5	15′-7″	
v109(E)	24	#5	15′-4″	
v110(E)	24	#5	13′-10″	
v111(E)	24	#5	13′-7″	
†100(E)	21	#6	13′-5″	<u>ــــــــــــــــــــــــــــــــــــ</u>
†101(E)	20	#6	12′-9″	
†102(E)	21	#6	12 '- 1"	
†103(E)	20	#6	11′-6″	
w100(E)	18	#5	34'-9"	
w101(E)	16	#5	36′-2″	
Structure	Excavati	on	Cu. Yd.	119
Concrete			Cu. Yd.	14.7
Reinforce		'S,	Pound	6,540
Ероху Со	ated			
Concrete		Cu. Yd.	77.1	
(Retaining	Wall)			
Concrete		Sq. Ft.	1,765	
Geocomposite Wall Drain			Sq. Yd.	70
Micro-Piles			Each Each	22
	Micropile Load Test			1
Micropile			Each	1
Lightweigl Concrete		Cu. Yd.	224	
Pipe Unde	erdrain fo	or	Foot	68
Structure	s 4"		,,	00

Minimum B	ar Laps
Bar	Lap
#5	3'-2"

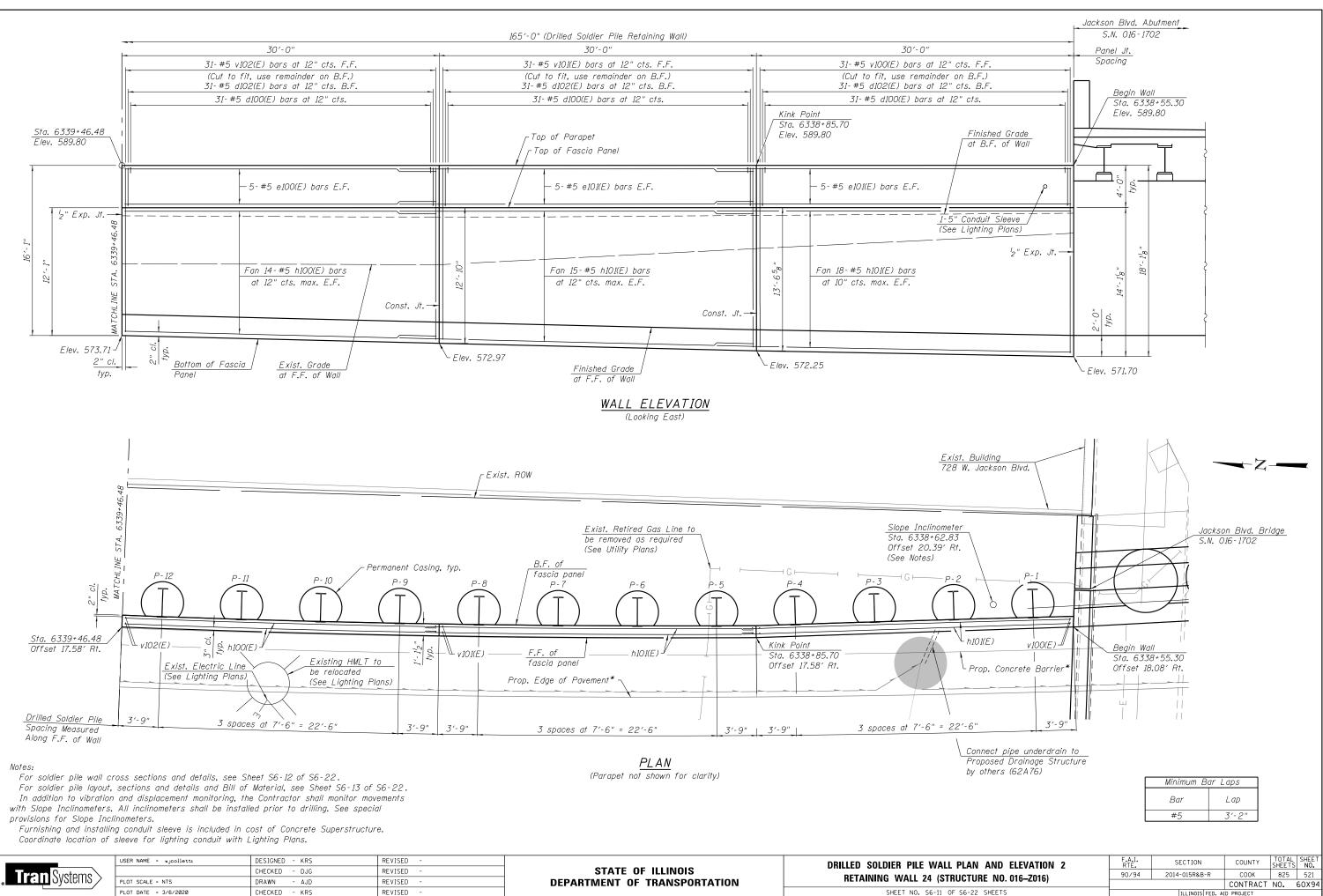


USER NAME = wjcolletti DESIGNED - KRS REVISED DRILLED SOLDIER PILE WALL P STATE OF ILLINOIS CHECKED - DJG REVISED **Tran** Systems **RETAINING WALL 24 (STRU** PLOT SCALE = NTS DRAWN - AJD REVISED **DEPARTMENT OF TRANSPORTATION** CHECKED - KRS SHEET NO. S6-10 OF S PLOT DATE = 3/5/2020 REVISED

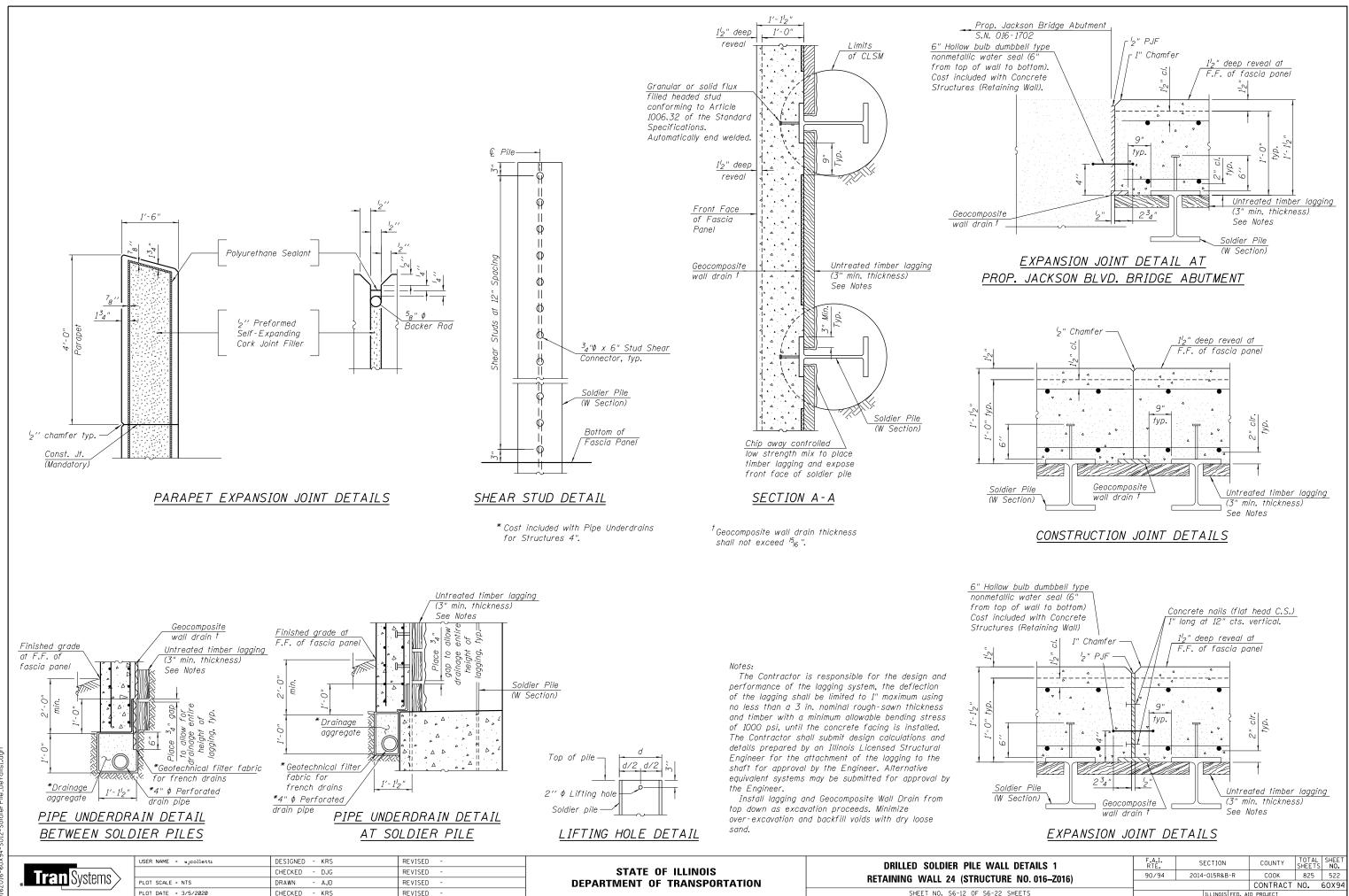
* Installed as part of Contract 62A76.

Minimum B	ar Laps
Bar	Lap
#5	3'-2"

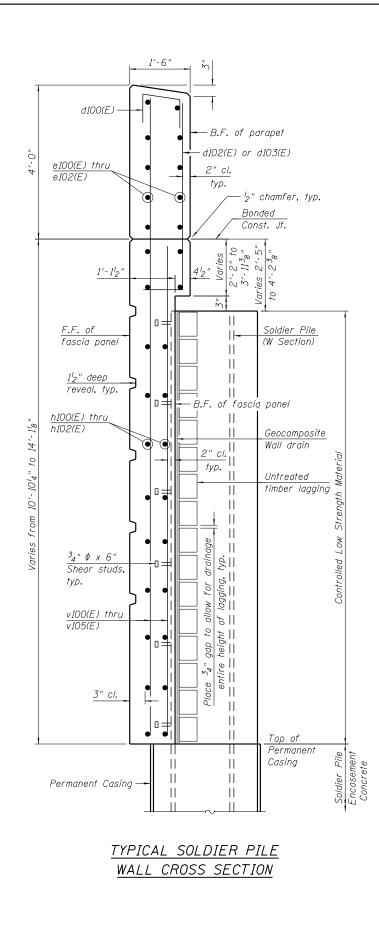
PLAN AND ELEVATION 1	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
JCTURE NO. 016–Z016)	90/94	2014-015R&B-R	COOK	825	520		
SCIONE NO. 010-2010/			CONTRACT	NO.	60X94		
S6-22 SHEETS	ILLINOIS FED. AID PROJECT						



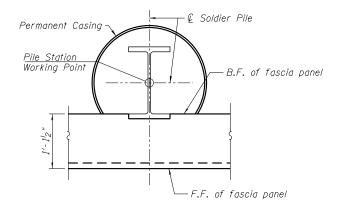
Tran Systems	USER NAME = wjcollett: PLOT SCALE = NTS	DESIGNED - KRS CHECKED - DJG DRAWN - AJD	REVISED-REVISED-REVISED-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRILLED SOLDIER PILE WALL PLAN RETAINING WALL 24 (STRUCTU
	PLOT DATE = 3/6/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-11 OF S6-22



<u>PILE LAYOUT</u>



Pile	Station at Working Point	Offset	Top of Parapet El.	Top of Pile El.	Bot. of Wall El.	Section	Shaft Ø	Pile Tip El.	Pile Length
P-1	6338+59.12	20.40' Rt.	589.80	583.38	571.77	W36X170	4'-0"	524.38	59′-0″
P-2	6338+66.73	20.36′ Rt.	589.80	583.38	571.91	W36X170	4'-0"	524.38	59′-0″
P-3	6338+74.35	20.27′ Rt.	589.80	583.38	572.04	W36X170	4'-0"	524.38	59′-0″
P-4	6 <i>338+81</i> ,96	20.11' Rt.	589.80	583.38	572.18	W36X170	4'-0"	524.38	59′-0″
P-5	6338+89.50	20.02′ Rt.	589.80	583.38	572.34	W36X170	4'-0"	524.38	59′-0″
P-6	6338+97.10	20.02′ Rt.	589.80	583.38	572.52	W36X170	4'-0"	524.38	59′-0″
P-7	6339+04.69	20.02′ Rt.	589.80	583.38	572.70	W36X170	4'-0"	524.38	59′-0"
P-8	6339+12.29	20.02′ Rt.	589.80	583.38	572.88	W36X170	4'-0"	524.38	59′-0"
P-9	6339+19 . 89	20.02′ Rt.	589.80	583.38	573.06	W36X170	4'-0"	524.38	59′-0"
P-10	6339+27.49	20.02′ Rt.	589.80	583.38	573.25	W36X170	4'-0"	524.38	59′-0″
P-11	6339+35.09	20.02′ Rt.	589.80	583.38	573.44	W36X170	4'-0"	524.38	59′-0″
P-12	6339+42.68	20.02′ Rt.	589.80	583.38	573.62	W36X170	4'-0"	524.38	59′-0″
P-13	6339+50.28	20.02′ Rt.	589.80	583.38	573.80	W33X118	3′-6″	524.38	59′-0″
P-14	6339+57.88	20.02′ Rt.	589.80	583.38	573.98	W33X118	3′-6″	524.38	59′-0″
P-15	6339+65.48	20.02′ Rt.	589.80	583.38	574,16	W33X118	3′-6″	524.38	59′-0″
P-16	6339+73.08	20.02′ Rt.	589.80	583.38	574.34	W33X118	3′-6″	524.38	59′-0"
P-17	6339+80.67	20.02′ Rt.	589.80	583.38	574.49	W33X118	3′-6″	524.38	59′-0"
P-18	6339+88.27	20.02′ Rt.	589.80	583.38	574.62	W33X118	3′-6″	524.38	59′-0"
P-19	6339+95.87	20.02′ Rt.	589.80	583.38	574.75	W33X118	3′-6″	524.38	59′-0″
P-20	6340+03.47	20.02′ Rt.	589.80	583.38	574.88	W33X118	3′-6″	524.38	59′-0″
P-21	6340+11.07	20.02' Rt.	591.58	583.38	575.00	W33X118	3′-6″	524.38	59′-0″
P-22	6340+18.67	20.02′ Rt.	591.58	583.38	575.09	W33X118	3′-6″	524.38	59'-0"



SOLDIER PILE WORKING POINT

	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		DRILLED SOLDIER PILE WALL DETAILS 2	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	HEET NO.
Tran Systems >		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	COOK	825	523
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. S6-13 OF S6-22 SHEETS		ILLINOIS FED.	CONTRACT	NO. 6	0X94

<u>BILL OF MATERIAL</u>

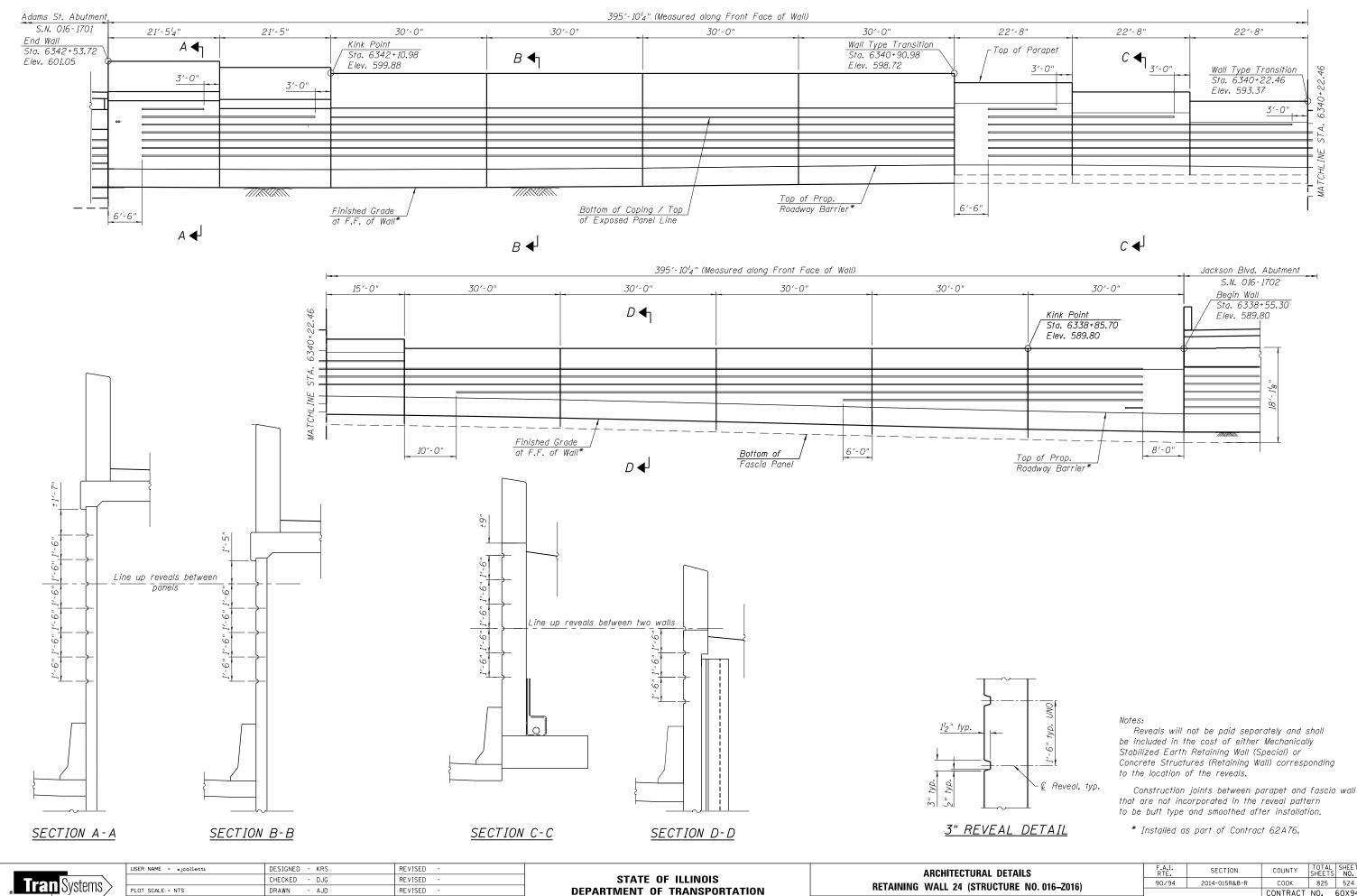
Bar	No.	Size	Length	Shape
d100(E)	171	#5	3'-0"	Π
d102(E)	155	#5	6'-6"	
d103(E)	16	#5	8'-5"	
0100(2)	10			
e100(E)	14	#5	29'-8"	
e101(E)	36	#5	33'-2"	
e102(E)	10	#5	14'-8"	
h100(E)	28	#5	29′-8″	
h101(E)	116	#5	33'-2"	
h102(E)	26	#5	14′-8″	
v100(E)	31	#5	31'-0"	
v101(E)	31	#5	29'-9"	
v102(E)	31	#5	28'-3"	
v103(E)	31	#5	26'-10"	
v104(E)	31	#5	25'-7"	
v105(E)	16	#5	28'-3"	
Structure	Excavati	'on	Cu. Yd.	118
Concrete	Superstri	ucture	Cu. Yd.	35.5
Stud Shee	ar Connec	ctors	Each	425
Reinforce Epoxy Co		5,	Pound	13,880
Permanen			Foot	1,081
Furnishind		Piles		
(W Section	·		Foot	1,298
Drilling ar	nd Setting	7	0	17.000
Soldier Pi	ies (In S	oil)	Cu. Ft.	13,928
Untreated	Timber i	Sq. Ft.	1,594	
Concrete	Structure	s	Cu. Yd.	91.9
(Retaining	Wall)		91.9	
Concrete	Sealer		Sq. Ft.	3,456
Geocompo	site Wall	Drain	Sq. Yd.	127
Slope Inc	linometer		Each	1
Pipe Unde	erdrain fo	or –	Foot	165
Structure	s 4"			

Minimum	B	ır	Laps
Bar			Lap
#5			3′-2″



BARS d102(E) & d103(E)





PLOT DATE = 3/5/2020

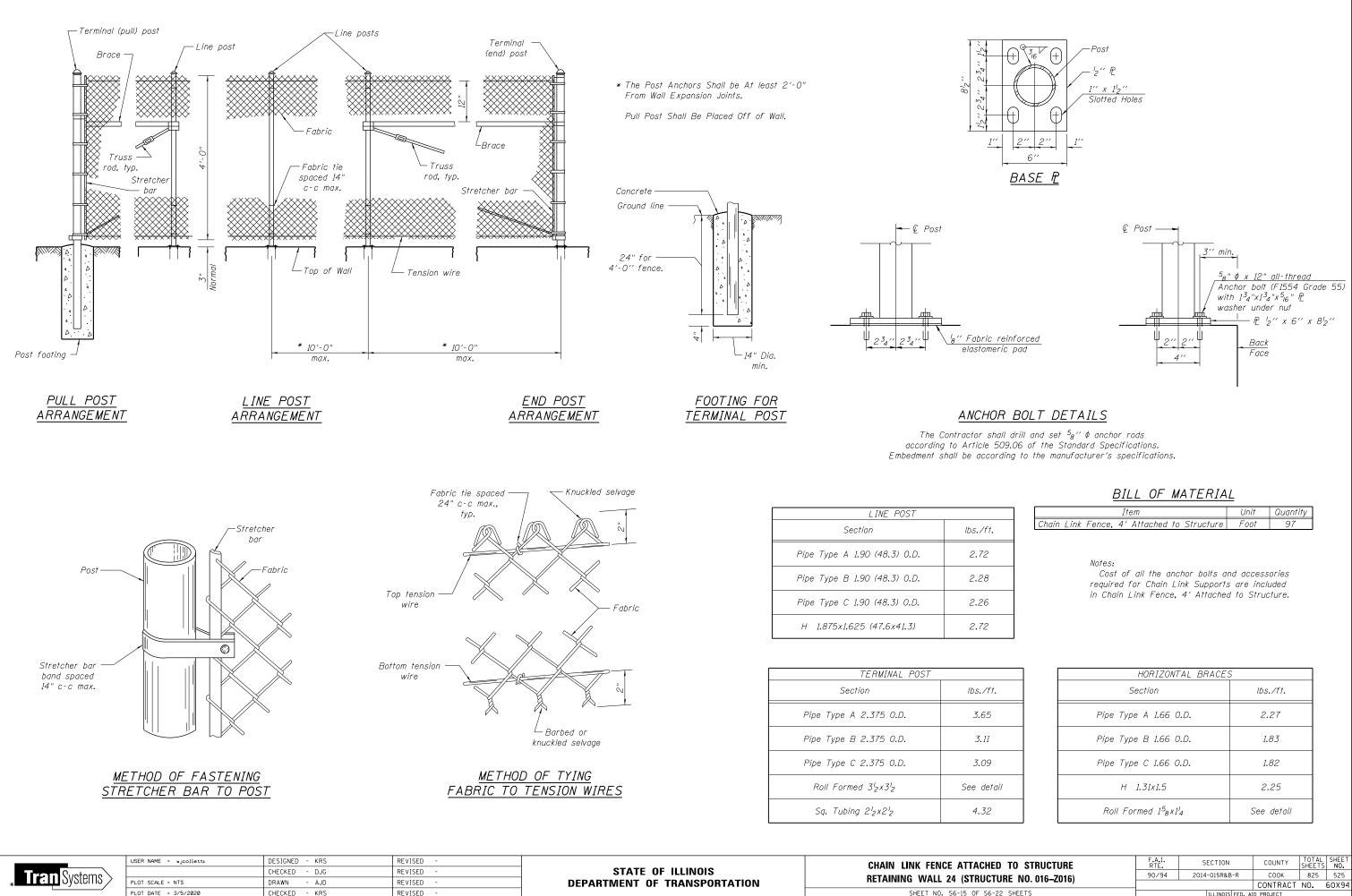
CHECKED - KRS

REVISED

SHEET NO. S6-14 OF S

Concrete Structures (Retaining Wall) corresponding

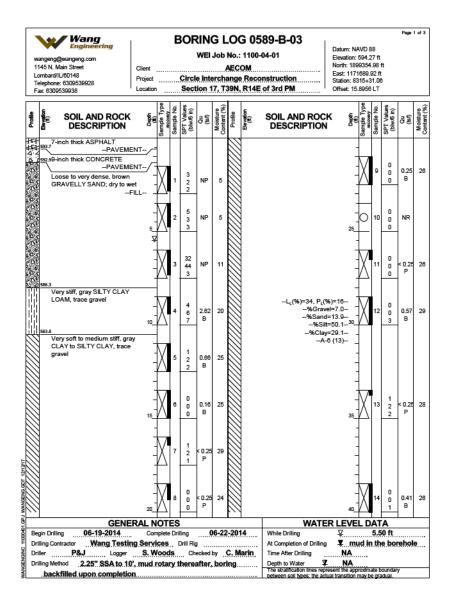
. DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JCTURE NO. 016–Z016)	90/94	2014-015R&B-R	COOK	825	524
CTONE 140. 010-2010)			CONTRACT	NO.	60X94
S6-22 SHEETS		ILLINOIS FED. AI	D PROJECT		

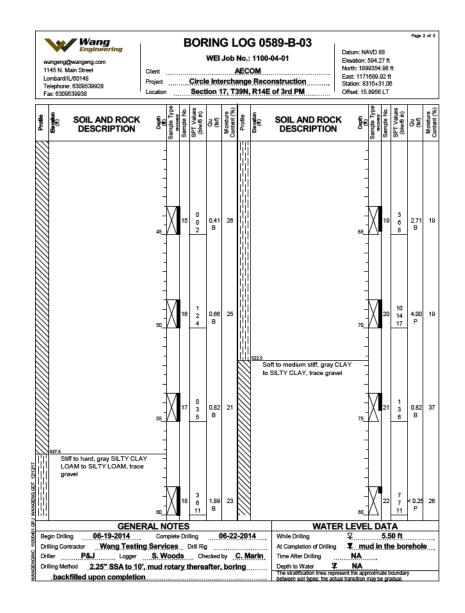


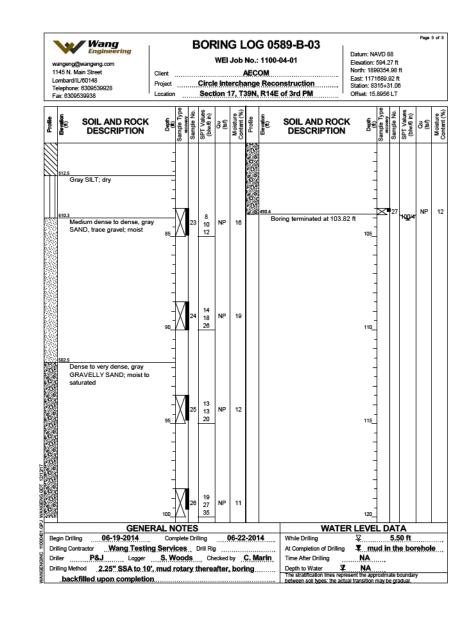
CHAIN LINK FENCE ATTACHED TO STRUCTURE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК	825	525
NETAINING WALL 24 (STICCTONE NO. 010-2010)			CONTRACT	NO.	60X94
SHEET NO. S6-15 OF S6-22 SHEETS	ILLINOIS FED. AID PROJECT				

		<u>BILL OF MATERIA</u>	<u>L</u>	
	1	Item	Unit	Quantity
ft.		Chain Link Fence, 4' Attached to Structure	Foot	97
2		Notes:		
8		Cost of all the anchor bolts a required for Chain Link Support.	s are incl	uded
6		in Chain Link Fence, 4′ Attache	d to Struc	cture.
2				

HORIZONTAL BRACES	S
Section	lbs./ft.
Pipe Type A 1.66 O.D.	2.27
Pipe Type B 1.66 O.D.	1.83
Pipe Type C 1.66 O.D.	1.82
H 1.31x1.5	2.25
Roll Formed 1 ⁵ 8×1′4	See detail
	Pipe Type A 1.66 0.D. Pipe Type B 1.66 0.D. Pipe Type C 1.66 0.D. H 1.31x1.5





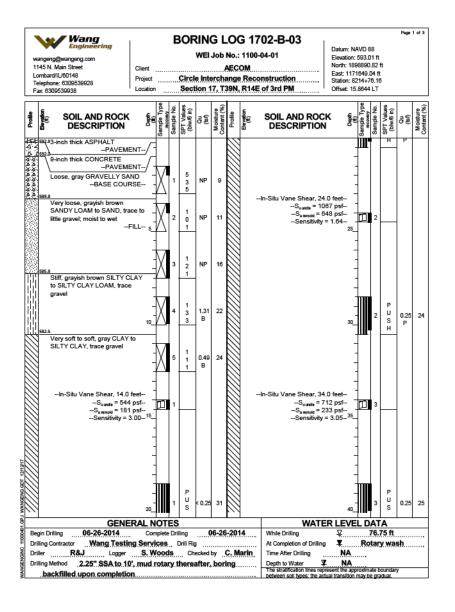


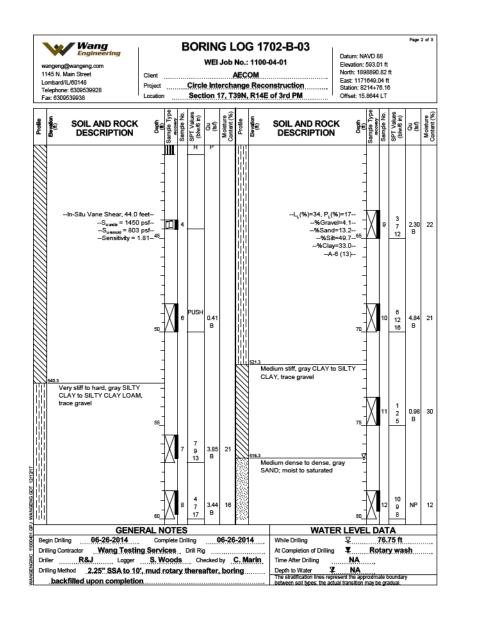
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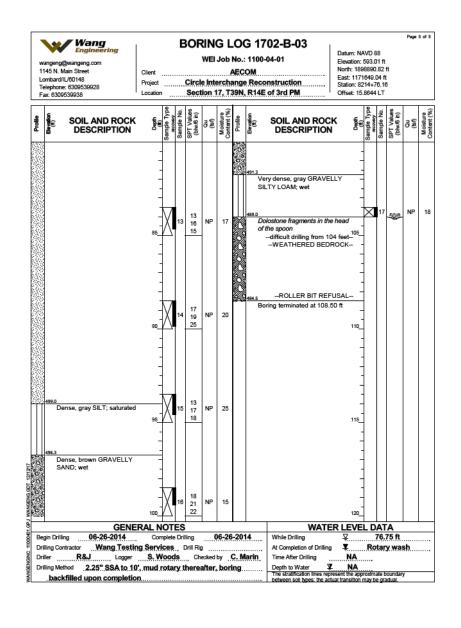
Tran Systems	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 1	F.A.I. SECTION COUNTY TOTAL SHEET RTE. SECTION COUNTY SHEETS NO.
		CHECKED - DJG	REVISED -	STATE OF ILLINOIS		90/94 2014-015R&B-R COOK 825 526
	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION RETAINING WALL 24 (STRUCTURE NO. 016–2016)	
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-16 OF S6-22 SHEETS	ILLINOIS FED. AID PROJECT

Notes:

Boring Log 0589-B-03 Station and Offset along ₱ NB C-D Road are: Sta. 6343+08.87, Offset 71.41' Rt.

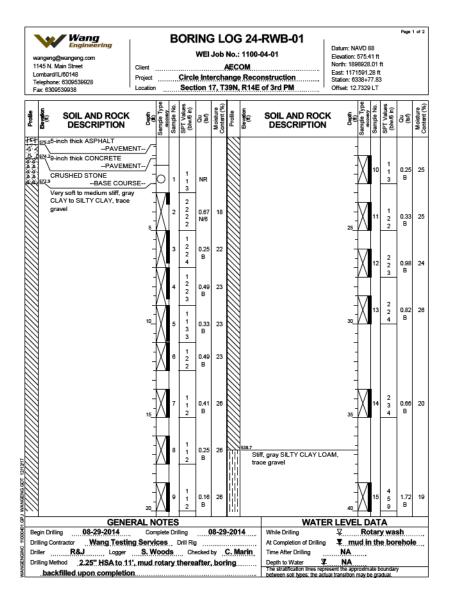


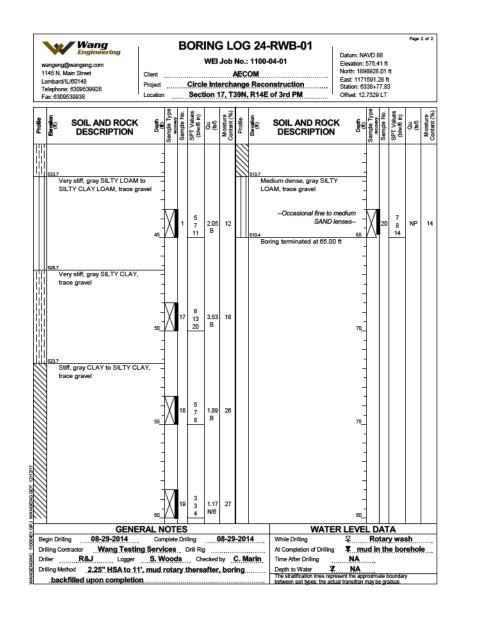




	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 2	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
Tran Systems >		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК 825 527
Systems >	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION	RETAINING WALL 24 (STRUCTURE NO. 010-2010)			CONTRACT NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-17 OF S6-22 SHEETS		ILLINOIS FED. 4	AID PROJECT

Boring Log 1702-B-03 Station and Offset along ₩ NB C-D Road are: Sta. 6338+35.25, Offset 41.54' Rt.





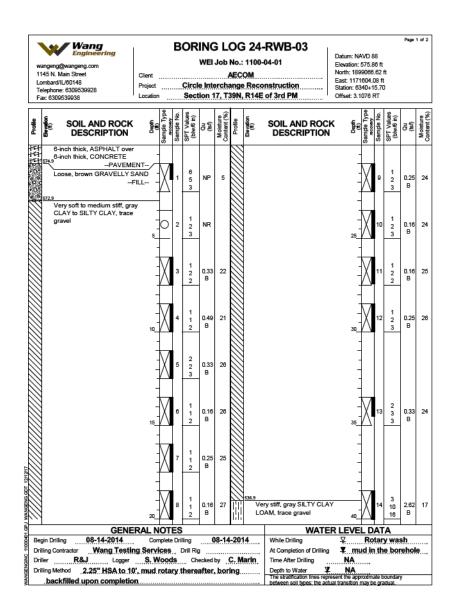


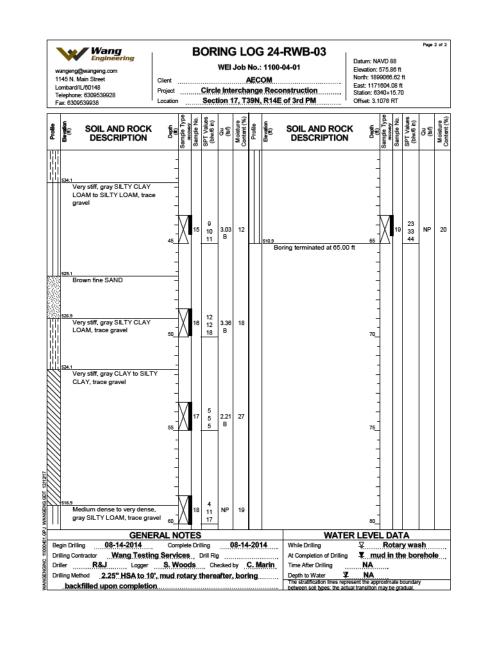
	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 3	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Tran Systems >		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК	825 528
• Uystonis	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION	ILIAINING WALL 24 (STRUCTURE NO. 010-2010)	_		CONTRAC	T NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-18 OF S6-22 SHEETS		ILLINOIS FED. 4	AID PROJECT	

ng m	Client	I	в	0		WEI		No.:	1100-	WB-01-HA ⁰⁴⁻⁰¹	Datum: NA Elevation: North: 189	581.0 8926)0 ft .95	ft	Page	1 of 1
8	Project Location					e Inte	ercha	inge	Reco	nstruction of 3rd PM	East: 1171 Station: 63 Offset: 3.7	38+7	6.1			
ND ROCK RIPTION	Begli	amde Tyne	Mecowery -	Sample No.	SPT Values (blw/6 in)	ng (s)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type acovery	Sample No.	SPT Values (blw/6 in)	n ĝ	Moisture Content (%)
ack LOAM, tra	се	Ĩ	'n		P		-					0)				-
-TOPS SILTY CLAY Y LOAM, trace				1	U S H	NP	15									
	- 			2	P U S H	3.00 P	16									
	5_			3	P U S H	2.50 P	18									
TY CLAY to CL	- - AY,			4	P U S H	1.50 P	20									
	-			5	P U S	1.00 P	19									
ated at 10.00 ft	10	μ			н											
	-															
	-															
	-															
	-															
	-															
	15															
	-															
	-															
	-															
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	-															
	-															
	20															
GENE -20-2014							18-20	-201	14	WATE While Drilling	R LEVE ₽			A RY		
Vang Testin										At Completion of Drilling				RY		
Logger	S. W	0	00	s	Che	ecked	by 🤇	C. M	arin	Time After Drilling	NA					
DA Pneumat										Depth to Water The stratification lines repri- between soil types: the act	NA esent the app	roxim	ate t	oundar	y	
										between soll types: the act	ual francition (nav h	e nr:	adual	-	

Boring Log 24-RWB-01 Station and Offset are measured along £ NB C-D Road. Boring Log 24-RWB-01-HA Station and Offset are measured along £ NB C-D Road.

Wangeng@wangeng.com 1145 N. Main Street Lombard/IL/80148 Telephone: 6309639828 Fac 6309639838	Client Project Location			Circl	WEI e Inte	Job erch	No.: AEC	: 1100- OM = Reco	Lot-01 Datum: NAVD 88 Everation: 581.00 ft North: 1899000.13 ft Station: 6330+59.76 Offset: 1171602.85 ft Offset: 12 RT Offset: 12 RT				Page		
SOIL AND ROCK	Depth (E)	Sample Type	Sample No.	SPT Values (blw/6 in)	ou (a)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type	Sample No.	(blw/6 in)	Qu (Bf)	Moisture Content (%)
BIO/7Black, SILTY LOAM, and roo - TOPS(Black, SILTY LOAM, trace gr s79.3and brick F	OIL/ - avel _		1	P U S H	NP	24									
Medium stiff to very stiff, gray			2	P U S H	3.50 P	17									
	5		3	P U S H	3.00 P	17									
SAND lens	-		4	P U S H	1.75 P	20									
CLAY, trace gravel			5	P U S H	0.75 P	21									
Boring terminated at 10.00 ft	-														
	- - 15_														
	-														
0515	20_											Ц	_		
GENEI Begin Drilling 08-19-2014	Corr					08-19	.20	14	WATE While Drilling	R LEVE	_				
Drilling Contractor Wang Testin Driller R&J Logger Drilling Method <u>1" IDA Pneumat</u>	g Servi A. To	ces mar	ras	Drill Rig Ch) ecked	by .	C. N	larin	At Completion of Drilling Time After Drilling Depth to Water S The stratification lines rep between soil types: the ac	NA NA NA	roxim	DR ate bo	CY.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

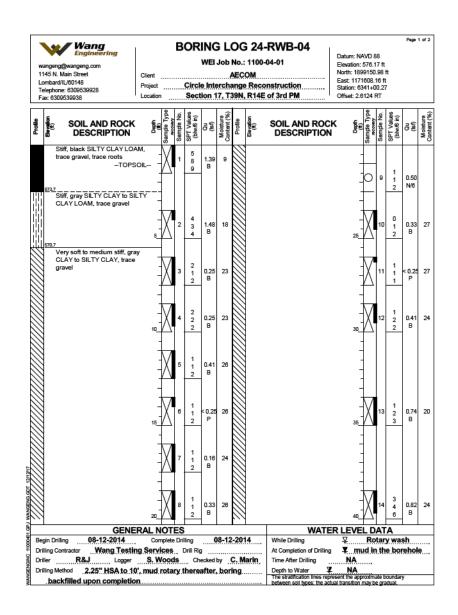


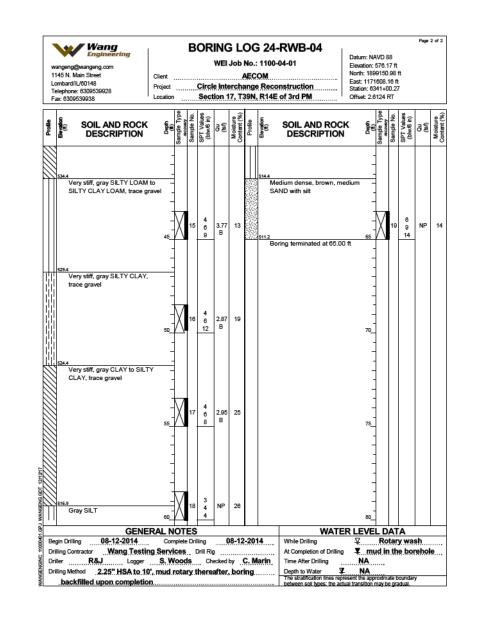


	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 4	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
Tran Systems >		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	COOK 825 529
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. S6-19 OF S6-22 SHEETS		ILLINOIS FED.	CONTRACT NO. 60X94

Boring Log 24-RWB-02-HA Station and Offset are measured along ₽ NB C-D Road. Boring Log 24-RWB-03 Station and Offset are measured along ₽ NB C-D Road.

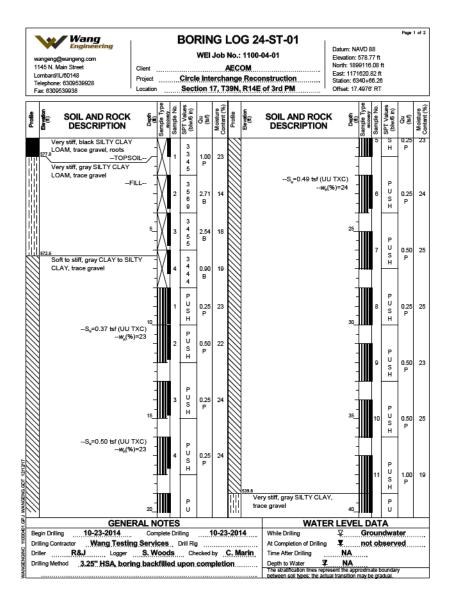
1145 N. Lombard Telepho	Pagewangeng.com Main Street dille0148 Mei: 6309639928 De639938	Client Project , Location		Circl	WEI e Inte	Job ercha	No.: AEC	1100- OM Reco	WB-03-HA 04-01 enstruction of 3rd PM	Datum: NAVD 88 Elevation: 591.77 ft North: 1899066.47 ft East: 1171624.13 ft Station: 6340+16.13 Offset: 23.1586 RT					
Profile Elevation	SOIL AND ROCK DESCRIPTION	Depth (1)	sample No.	SPT Values (blw/6 in)	ດ (ສ)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type	SPT Values (blw/6 in)	ou (si)	Moisture	
\. 	Black, SILTY LOAM, trace ro 	<u>0IL/ -</u>	1	P U S H	0.75 P	17									
		<u>"LL/</u> '	2	P U S H	2.25 P	20									
		5	3	P U S H	2.25 P	19									
		-	4	P U S H	1.50 P	19									
	Boring terminated at 10.00 ft	- - 10	5	P U S H	1.25 P	22									
	sonng terminated at 10.00 h	-													
		-													
		-													
		20							1						
		RAL NO													
Driller	illing 08-19-2014 Contractor Wang Testin R & J Logger Method 1" IDA Pnoumat	g Servic A. Ton	naras	Drill Rig	9 ecked	by .!	C. M	arin	While Drilling At Completion of Drilling Time After Drilling Depth to Water S The stratification lines rep	NA NA	·····	DRY			

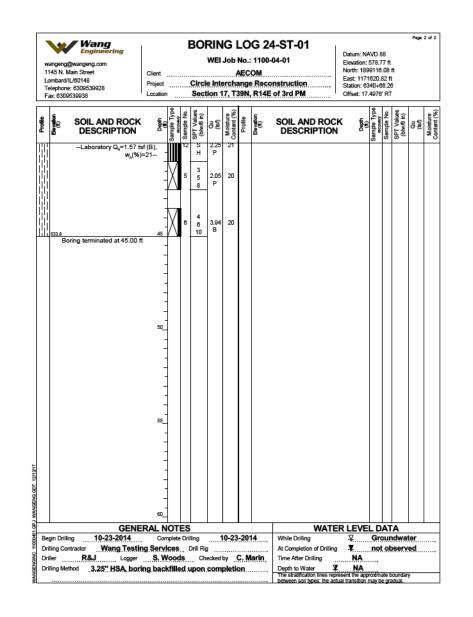


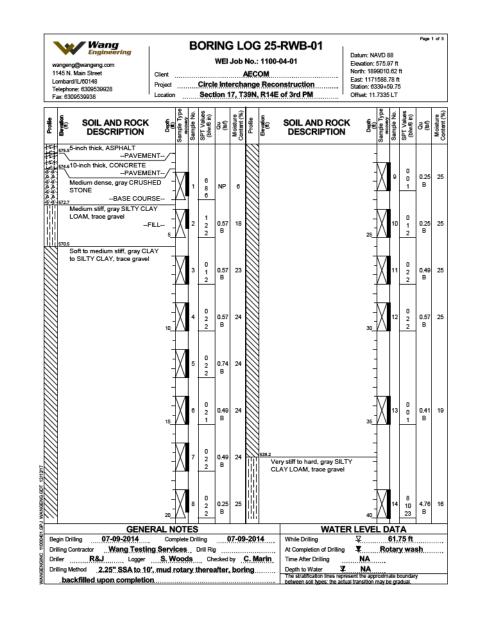


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Tran Systems >		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК	825 530
	PLOT SCALE = NTS PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. S6-20 OF S6-22 SHEETS	—	ILLINOIS FED.	CONTRACT	NO. 60X94

Boring Log 24-RWB-03-HA Station and Offset are measured along ₽ NB C-D Road. Boring Log 24-RWB-04 Station and Offset are measured along ₽ NB C-D Road.

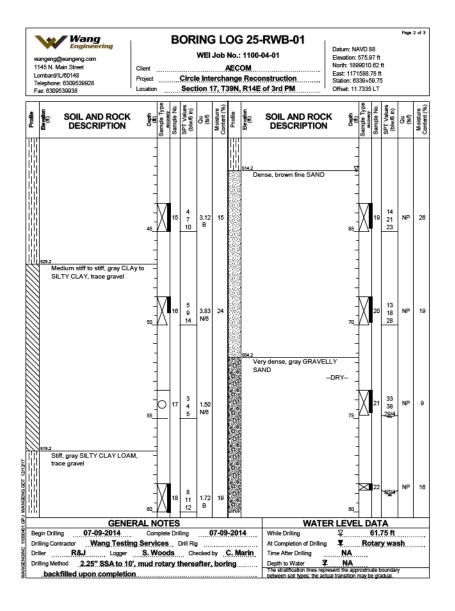






	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 6	F.A.I. BTF.	SECTION	COUNTY TOTAL SHEET
Tran Systems		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК 825 531
	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - KRS	KEVISED -		SHEET NO. S6-21 OF S6-22 SHEETS		ILLINOIS FED.	AID PROJECT

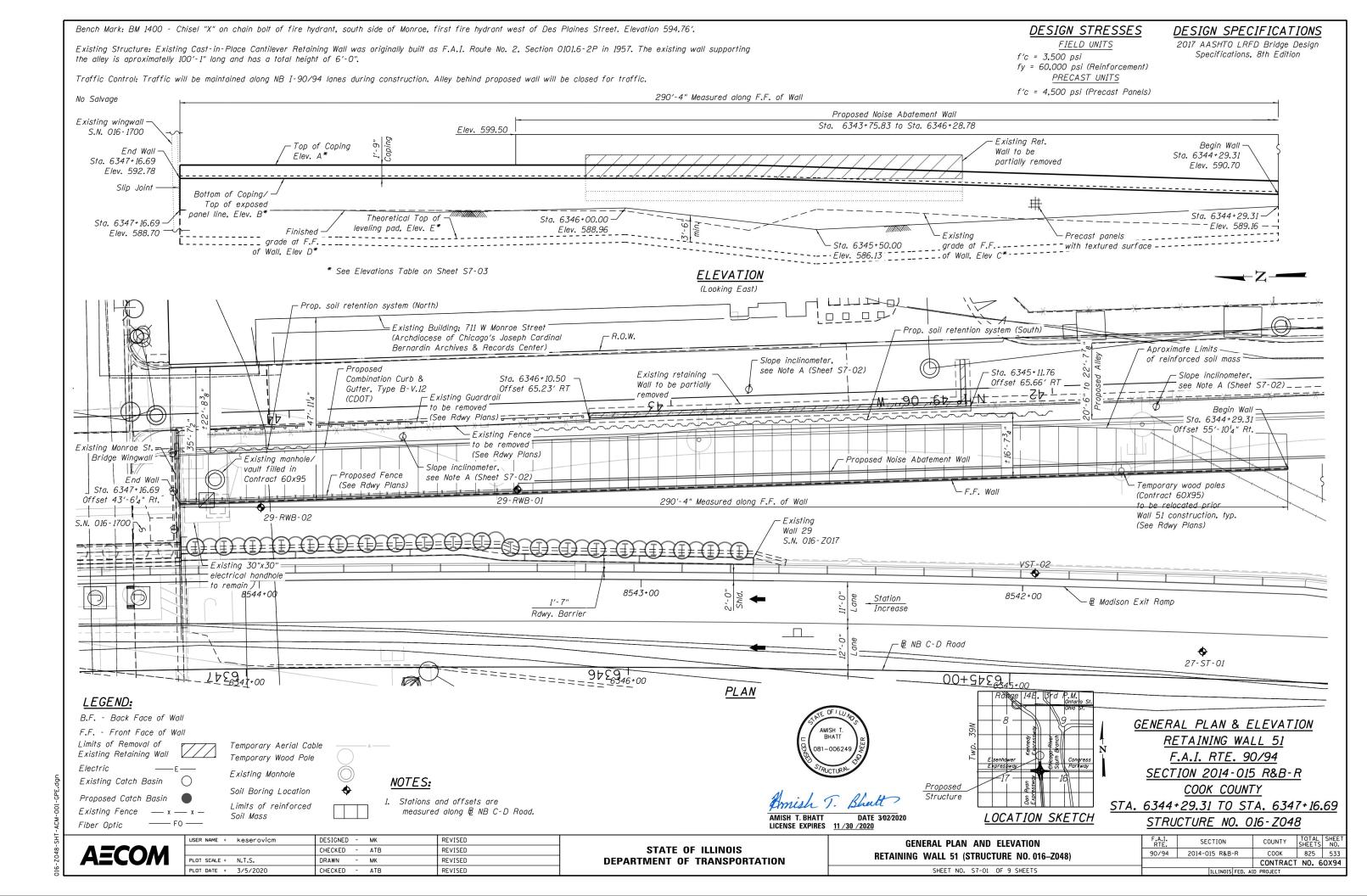
Boring Log 24-ST-01 Station and Offset are measured along ₽ NB C-D Road. Boring Log 25-RWB-01 Station and Offset are measured along ₽ NB C-D Road.



Wangeng@wangeng.com 1145 N. Main Street Lombard/IU/60148 Telephone: 6309539928 Fax: 6309539938			Circl	WEI	Job ercha	No.: AEC	1100- OM Reco	Image: Construction Datum: NAVD 88 04-01 Elevation: 575.97 ft North: 189001.05.27 ft North: 189001.05.77 ft North: 1875 ft Elevation: 63.94.69.76 of 3rd PM Offset: 11.7336 LT			7 ft 62 ft 8 ft 9.75	Page 3 of 3		
SOIL AND ROCK	Depth (ii)	Sample Type recovery Sample No.	SPT Values (blw/6 in)	ou (s)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROC DESCRIPTION		Sample Type	Sample No. SPT Values (blw/6 in)	ନ୍ତ୍ର	Moisture	
Very dense, gray SILT to SI LOAM, trace gravel 	DRY - - 85_ - - - - - - - - - - - - - - - - - - -	3 24	43 - <u>24</u> [3-	NP NR	17									
	100													
	RAL N								ER LEVE					
Begin Drilling 07-09-2014 Drilling Contractor Wang Testin Driller R&J Logger Drilling Method 2.25" SSA to 10 backfilled upon completion	ng Servi S. W ', mud r	oods otary	Drill Ri Ch	g ecked after,	by	C. M	arin	While Drilling At Completion of Drilling Time After Drilling Depth to Water 2 The stratification lines rep	NA NA	Rot	1.75 ft ary wa	sh		

	USER NAME = wjcolletti	DESIGNED - KRS	REVISED -		BORING LOGS 7	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Tran Systems		CHECKED - DJG	REVISED -	STATE OF ILLINOIS	RETAINING WALL 24 (STRUCTURE NO. 016–Z016)	90/94	2014-015R&B-R	СООК	825	532
• Uysterns	PLOT SCALE = NTS	DRAWN - LFP	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 6	SOX94
	PLOT DATE = 3/5/2020	CHECKED - KRS	REVISED -		SHEET NO. S6-22 OF S6-22 SHEETS		ILLINOIS FED.	AID PROJECT		

Notes: Boring Log 25-RWB-01 Station and Offset are measured along ₯ NB C-D Road.



GENERAL NOTES:

- 1. Stations and offsets for the wall are given from the ${\rm I\!\!B}$ NB C-D Road to the front face of the precast panels.
- 2. MSE Wall length measured along front face of the precast panels.
- 3. Reinforcement bars shall be epoxy coated.
- 4. Protective coat shall be applied to the exposed surfaces of MSE coping.
- 5. Plan dimensions and details relative to existing plans are subjected to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in scope of work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 6. Lightweight Cellular Concrete Fill shall be Class III (District I), see Special Provisions.
- 7. MSE Wall supplier shall design the MSE Wall using granular reinforced mass with minimum effective internal friction angle of 34 degrees and unit weight of 120 lbs./cu. ft. For embankment behind granular reinforced mass, an embankment unit weight of 120 lbs./cu. ft and an effective friction angle of 30 degrees shall be used in the wall system design.
- 8. Quantity for Lightweight Cellular Concrete Fill includes reinforced soil mass and fill area behind reinforced soil mass within excavated area; Type is specified as Class III (District I) Lightweight Fill.
- 9. MSE wall supplier shall coordinate MSE wall design with prop. Noise Abatement Wall. MSE wall shall be designed to carry loads from the prop. Noise Abatement Wall. See Special Provision for Mechanically Stabilized Earth Retaining Wall, Special and Ground Mounted Concrete Noise Abatement Walls (Absorptive and Reflective) for design and construction requirements.
- 10. MSE Supplier to design load transfer systems to accommodate drainage structures and foundation elements of Noise Abatement Wall.
- 11. The Contractor shall field verify location of existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.
- 12. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent buildings and utilities. See Contract Special Provision for details.
- 13. The contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provision for Construction Vibration Monitoring, to ensure that removal/construction activities in the vicinity of the structures do not have detrimental effects on building foundations. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during removal/construction activities to satisfy these requirements. See Contract Special Provisions for details.
- 14. Earth Excavation beyond the limits of Structure Excavation shall be at slope as shown in cross sections. For Earth Excavation quantity see Civil sheets.
- 15. The Contractor shall coordinate proposed Wall 51 construction with construction of proposed Noise Abatement Wall.
- 16. For the Noise Abatement Wall plans, see sheets S9-01 thru. S9-08.

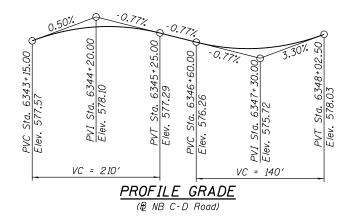
SUGGESTED SEQUENCE OF CONSTRUCTION

- 1. Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s).
- 2. Install Soil Retention System.
- 3. Complete excavate for Wall 51 and perform partial removal of existing retaining wall as necessary.
- 4. Install Noise Abatement Wall (NAW) foundation and install Sleeve around NAW foundation elements.
- 5. Construct Wall 51.
- 6. Place 2'-0" of top soil in the landscaping area (see roadway plans)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 4	Each	1
Structure Excavation	Cu Yd	896
Protective Coat	Sq Yd	140
Mechanically Stabilized Earth Retaining Wall, Special	Sq Ft	2761
Lightweight Cellular Concrete Fill	Cu Yd	1285
Name Plates	Each	1
Soil Retention System	Sq Ft	1365
Slope Inclinometer	Each	3
Concrete Removal, Special	Cu Yd	50

** Provided quantities are approximate. The Contractor will be paid for the actual quantity at the unit price bid for the work.



<u>CURVE DATA</u>
(NB C-D Road) Curve: P-NCD-NX-6
PI Sta. = 6345+36.95 ⊿ = 5° 12′ 37" (LT)
D = 1° 05′ 35" R = 5,242.00′
T = 238.51' L = 476.70'
E = 5.42' e = RC
T.R. = NA S.E. Run = NA
P.C. Sta. = 6342+98.44 P.T. Sta. = 6347+75.14

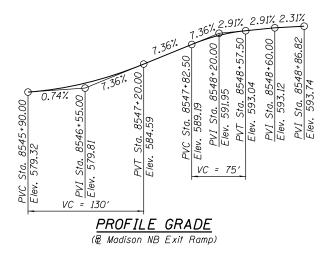
In addition to vibration and displacement monitoring, the contractor shall monitor ground movements with slope inclinometer. Install Slope inclinometer at Station 6344+64.37, offset 70.40' RT, Station 6345+69.16, offset 72.31' RT and Station 6346+59.24 offset 60.94' RT. All inclinometers shall be installed prior to placing soil retention system and any excavation for the proposed Wall 51. See special provision for Slope Inclinometer.

- ACM-0	
16-Z048-SHT-ACM-0	

	USER NAME = keserovicm	DESIGNED - MK	REVISED		GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL		SECTION	COUNTY TOTAL SHEET	L SHEET
ΔΞϹΟΜ		CHECKED - ATB	REVISED	STATE OF ILLINOIS	STRUCTURE NO. 016–Z048	90/94 20	014-015 R&B-R	COOK 825	534
AECOM	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. UT0-2048			CONTRACT NO.	60X94
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S7-02 OF 9 SHEETS		ILLINOIS FED. AID	PROJECT	

INDEX OF SHEETS:

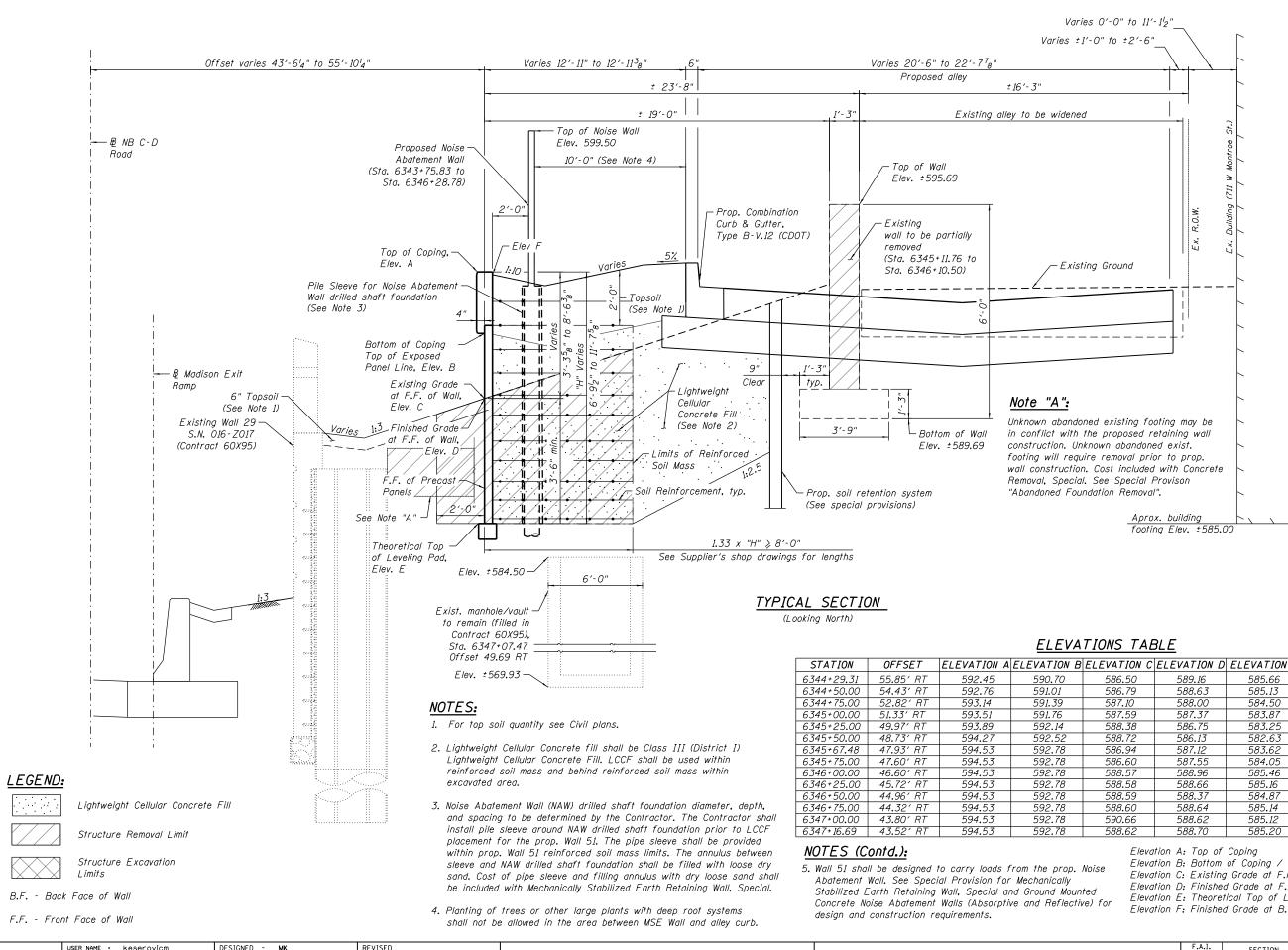
S7-01 General Plan and Elevation
S7-02 General Notes, Index of Sheets and Total Bill of Material
S7-03 Typical Section
S7-04 Soil Retention System
S7-05 Architectural Details
S7-06 Boring Logs - I
S7-07 Boring Logs - II
S7-08 Boring Logs - III
S7-09 Boring Logs - IV



STATION 6344+29.31 TO 6347+16.69 BUILT 20__ BY STATE OF ILLINOIS F.A.I RTE. 90/94 SEC 2014-015R&B-R LOADING HL-93 STRUCTURE NO. 016-2048

NAME PLATE

See Std. 515001

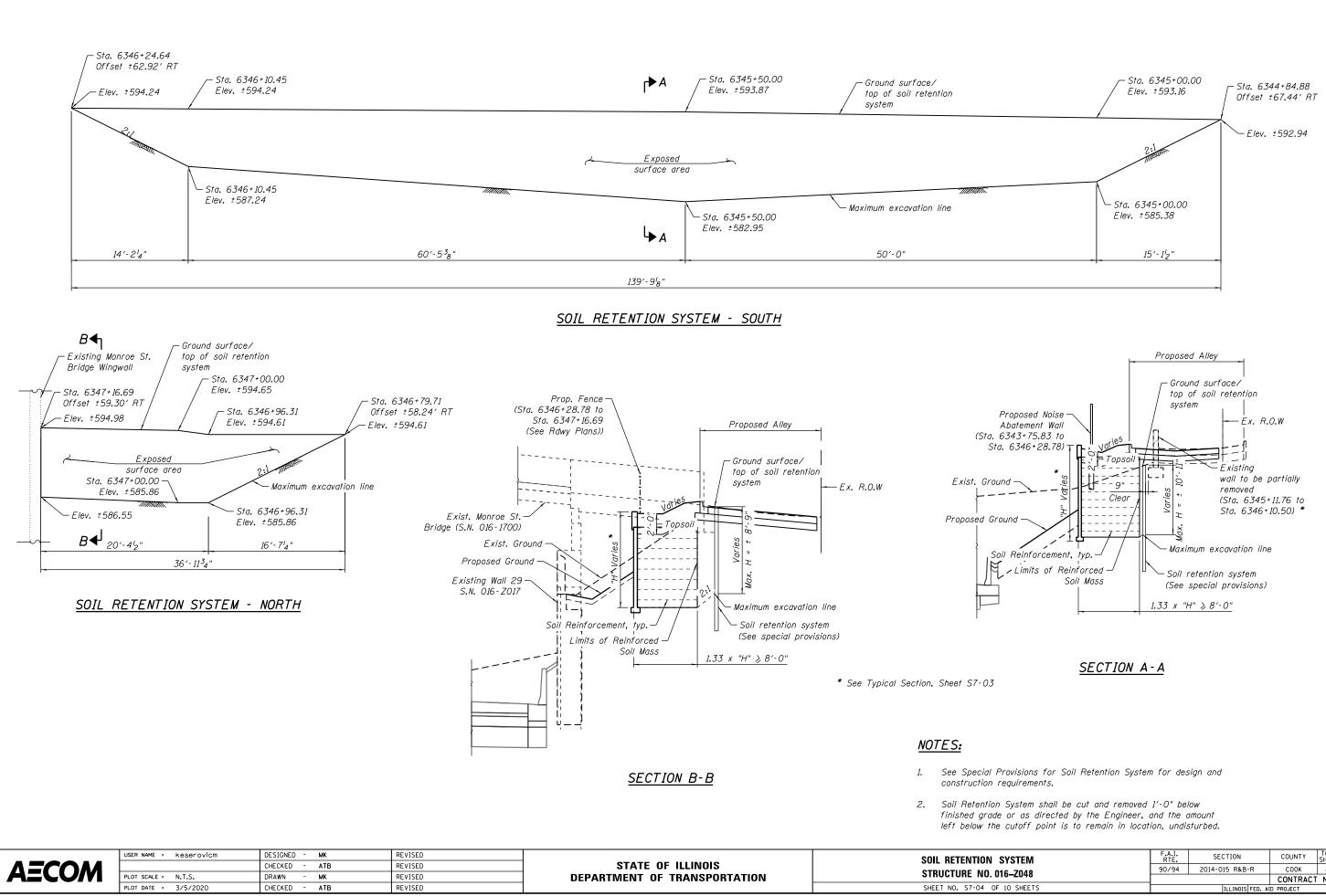


AECOM	USER NAME = keserovicm	DESIGNED - MK	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION	F.A.I. SECTION	COUNTY TOTAL SHEET SHEETS NO.
		CHECKED - ATB	REVISED			90/94 2014-015 R&	
	PLOT SCALE = N.T.S. PLOT DATE = 3/5/2020	DRAWN - MK CHECKED - ATB	REVISED REVISED		STRUCTURE NO. 016–Z048 SHEET NO. \$7-03 OF 10 SHEETS	CONTRACT NO. 60X94	

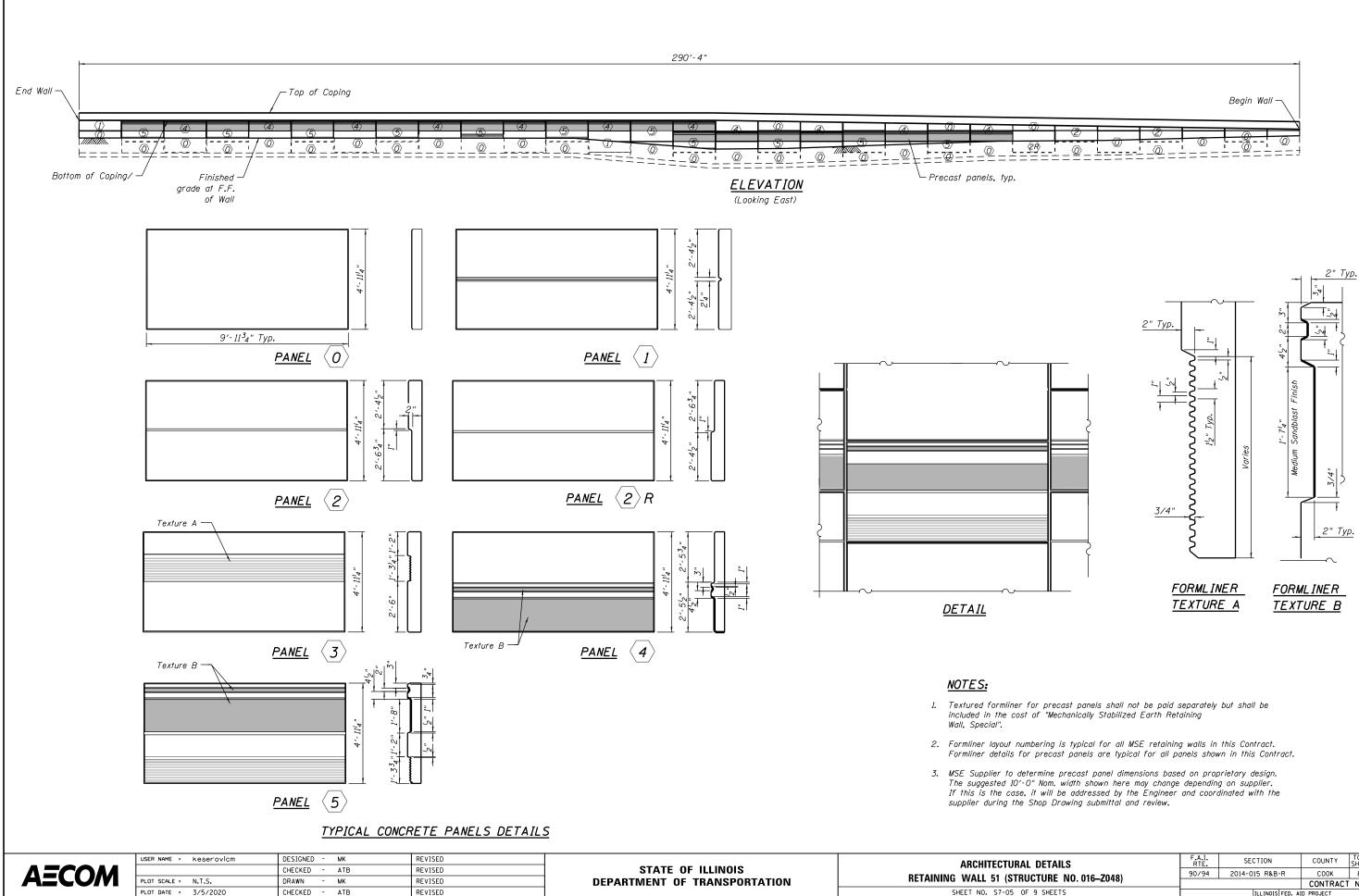
ΕL	EVA	TIONS	TABLE

590.70	500 50			
	586.50	589.16	585.66	592.28
591.01	586.79	588.63	585.13	592.60
591.39	587.10	588.00	584.50	592.98
591.76	587.59	587.37	583.87	593.35
592.14	588.38	586.75	583 . 25	593.61
592.52	588.72	586.13	582.63	593 . 87
592.78	586.94	587.12	583.62	594.03
592.78	586.60	587.55	584.05	594.07
592.78	588.57	588.96	585 . 46	594.12
592.78	588.58	588.66	585 . 16	594.24
592.78	588.59	588.37	584.87	594.36
592.78	588.60	588.64	585 . 14	594.37
592.78	590.66	588.62	585.12	594.37
592.78	588.62	588.70	585.20	594.36

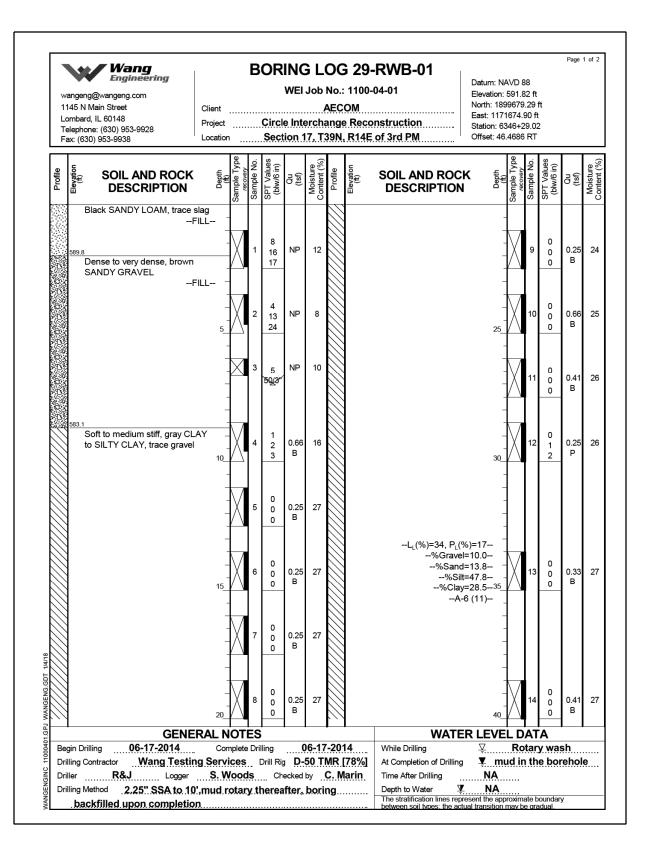
rom the prop. Noise	Elevation B: Bottom of Coping / Top of Exposed Panel Line
Mechanically	Elevation C: Existing Grade at F.F. of Wall
nd Ground Mounted	Elevation D: Finished Grade at F.F. of Wall
e and Reflective) for	Elevation E: Theoretical Top of Leveling Pad
e unu nenechvel iu	Elevation F: Finished Grade at B.F. of Wall

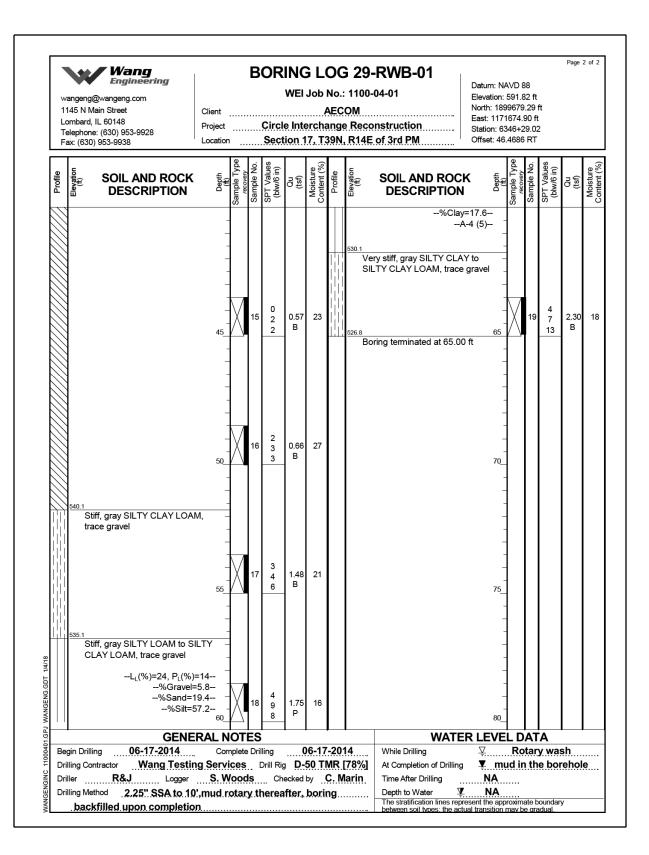


SYSTEM	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
016–Z048	90/94	2014-015 R&B-R	СООК	825	536	
010-2048			CONTRACT	NO. 6	0X94	
DF 10 SHEETS	ILLINOIS FED. AID PROJECT					



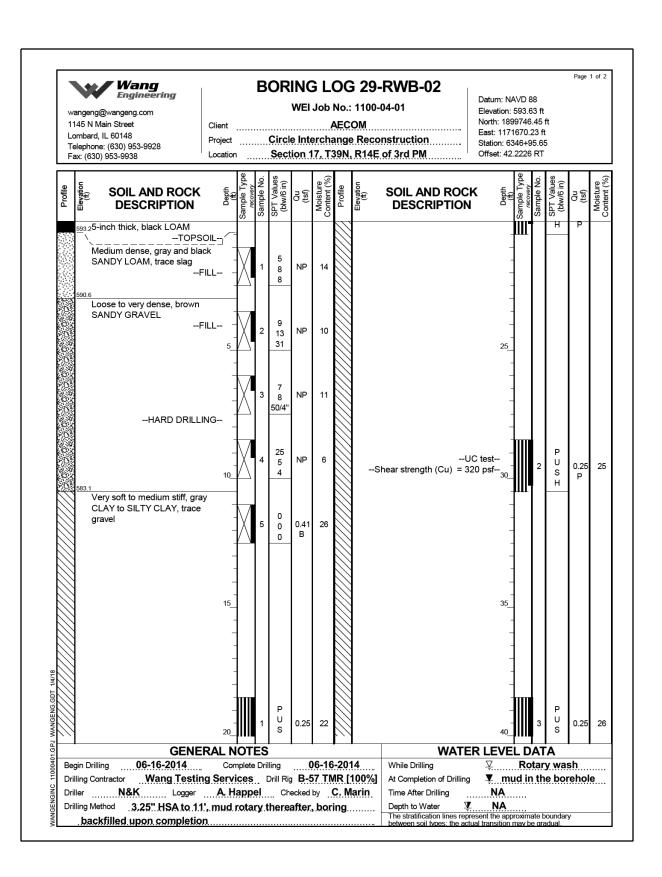
AL DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
RUCTURE NO. 016–Z048)	90/94	/94 2014-015 R&B-R COOK			537		
			CONTRACT	NO. 6	0X94		
OF 9 SHEETS	ILLINOIS FED. AID PROJECT						

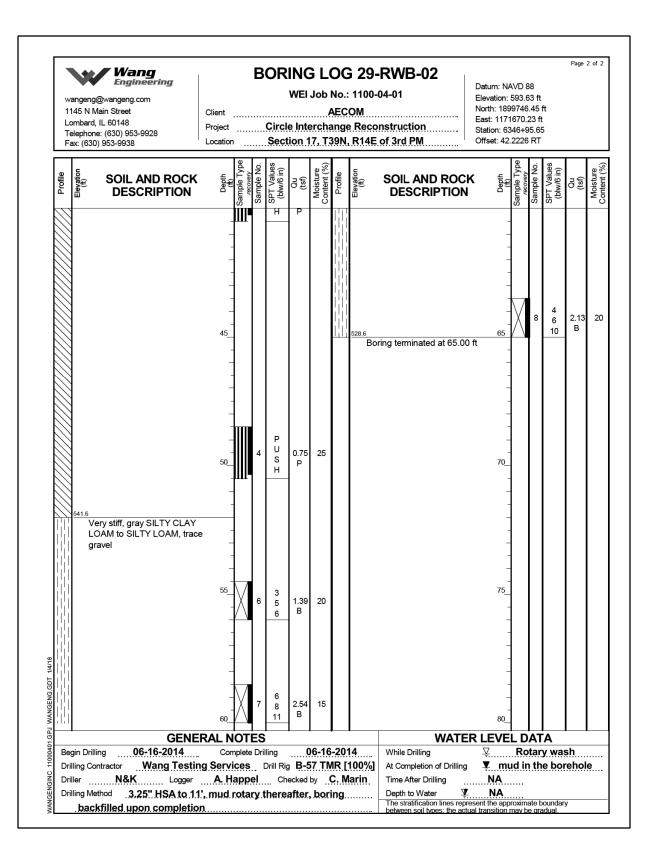




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COM		CHECKED - ATB	REVISED	STATE OF ILLINOIS		90/94	2014-015 R&B-R	СООК	825 538
	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION	TRANSPORTATION RETAINING WALL 51 (STRUCTURE NO. 016–2048)			CONTRACT	NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S7-06 OF 9 SHEETS		ILLINOIS FED. A	ID PROJECT	

NOTE:



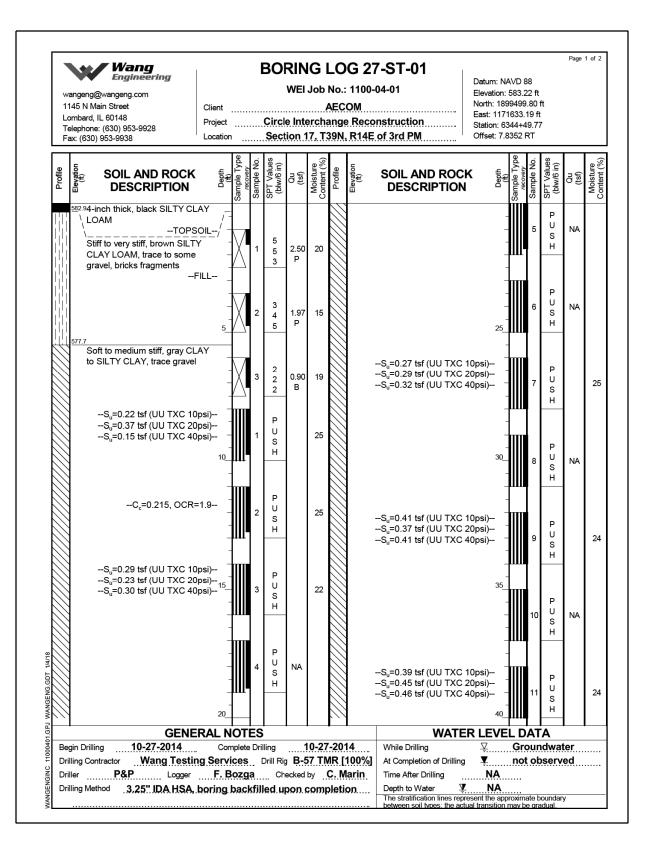


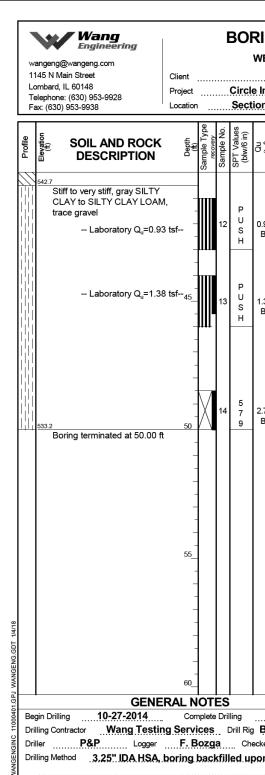
BORING LOO **RETAINING WALL 51 (STRU** SHEET NO. S7-07 C

STATE OF ILLINOIS

NOTE:

IGS II	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
JCTURE NO. 016–Z048)	90/94	2014-015 R&B-R	СООК	825	539		
CTORE NO. 010-2048/			CONTRACT	NO. 6	0X94		
OF 9 SHEETS	ILLINOIS FED. AID PROJECT						



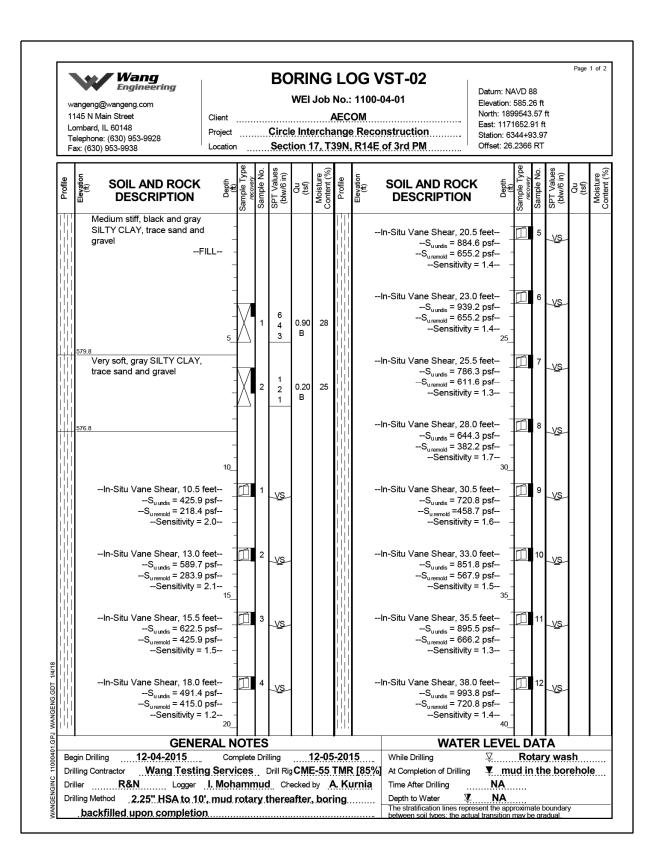


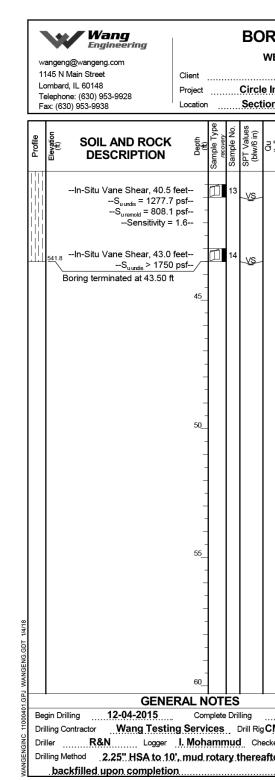
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ЮM	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION	RETAINING WALL 51 (STRUCTUR
_	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S7-08 OF 9 S

VEI Inte	Job / ercha	No.: AEC	1100- OM Reco	7-ST-01 04-01 of 3rd PM	Page 2 of 2 Datum: NAVD 88 Elevation: 583.22 ft North: 1899499.80 ft East: 1171633.19 ft Station: 6344+49.77 Offset: 7.8352 RT						
Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND RO DESCRIPTIC		Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
0.93 B	17										
1.38 B	18										
2.71 B	15										
B- {		1R [100%]	While Drilling At Completion of Drill		<u>↓</u>	Gro not	our	dwa		
	by(arin on	Time After Drilling Depth to Water The stratification lines between soil types: the	 ⊈ repres actua	NA ent the app	roxim	ate b e ara	oundar Idual.	у	

NOTE:

as III	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CTURE NO. 016–Z048)	90/94	2014-015 R&B-R	COOK	825	540	
CTONE NO. 010-2040)	CONTRACT NO. 60X94					
F 9 SHEETS		ILLINOIS FED. AI	D PROJECT			



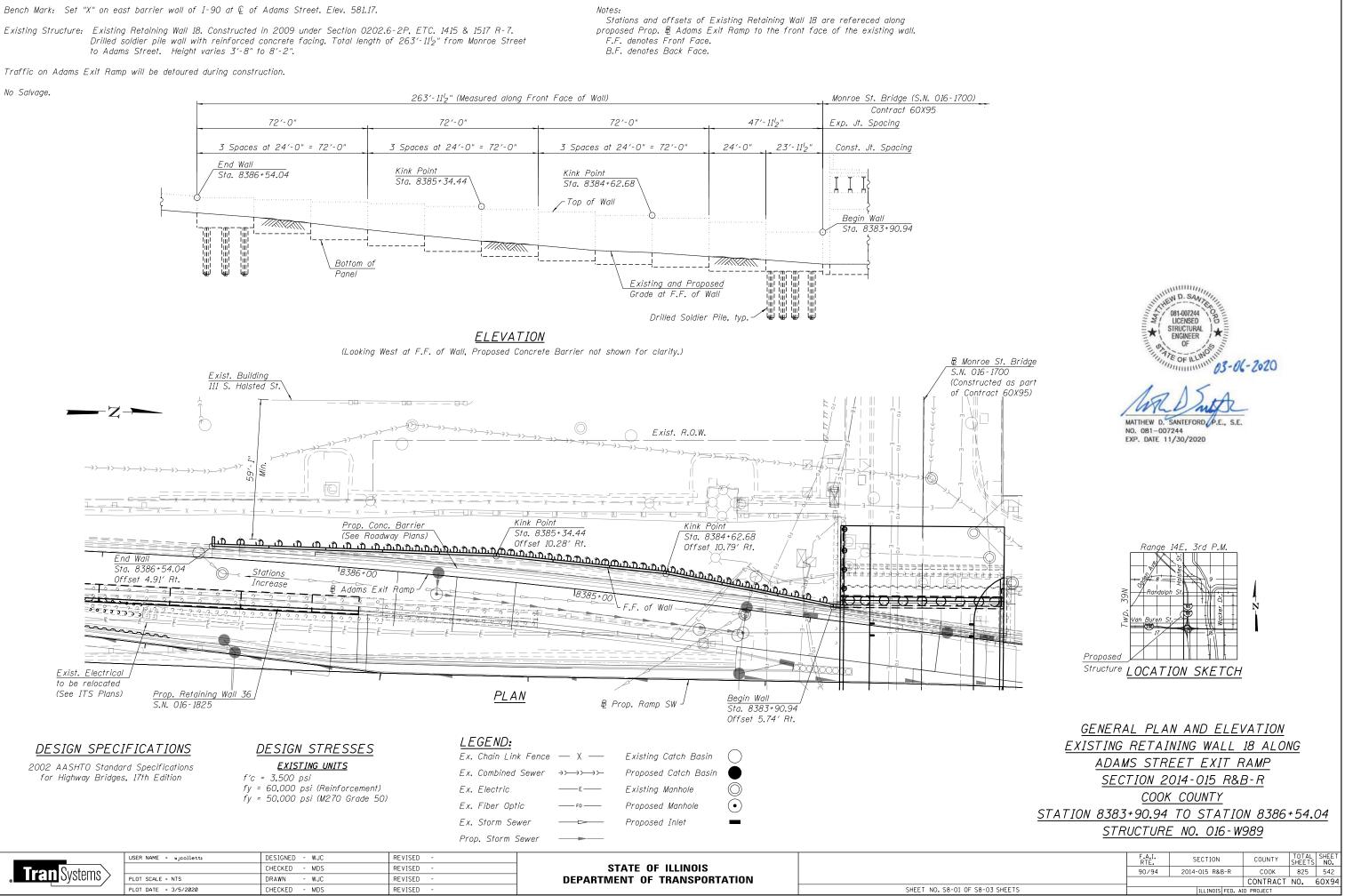


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		CHECKED - ATB	REVISED	STATE OF ILLINOIS	
JM	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION	RETAINING WALL 51 (STRUCTUR
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S7-09 OF 9 S

WEI e Inte	Job / ercha	No.: AEC	1100- OM Reco	/ST-02 04-01 nstruction of 3rd PM		Eleva North East: Statio	m: NA ation: 189 1171 on: 63 et: 26.	585.2 9543 652.9 44+9	26 ft .57 f 91 ft 3.97		Page	2 of 2
Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	Soil an Descr	ND ROC RIPTION		Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
					WATE							
	2-05			While Drillin	-					y wa		
			(<u>[85%</u>]						th	e bo	rehol	e
	by A			Time After I Depth to Wa		<u>N</u> Z N	IA NA	••••				
nter	,()	y	•••••	The stratifica	tion lines rep	present th	e app	roxim	ate b	oundar	у	
				between soil	types: the ad	tual trans	sition r	nav b	e ara	idual.		

NOTE:

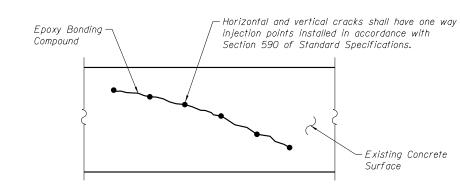
as IV	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
CTURE NO. 016–Z048)	90/94	2014-015 R&B-R	СООК	825	541		
CIONE NO. 010-2048/			CONTRACT	NO. 6	0X94		
F 9 SHEETS	ILLINOIS FED. AID PROJECT						



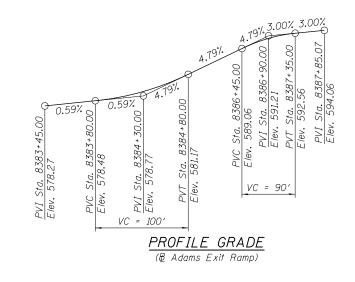
	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	90/94	2014-015 R&B-R	СООК	825	542		
			CONTRACT	NO.	60X94		
S8-03 SHEETS	ILLINOIS FED. AID PROJECT						

GENERAL NOTES:

- 1. Wall repair locations are approximate and were determined from field inspection performed at the time of plan preparation. The necessary adjustments based on current field conditions will be made at time of construction. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the actual quantity furnished at the unit price bid for the work.
- 2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 3. Concrete Sealer shall be applied to exposed front face of existing retaining wall.
- 4. Existing reinforcing steel which is exposed by the concrete repair process, but is to remain embedded in the existing structure and reused, shall be cleaned to be free of existing concrete and rust, and straightened if necessary. Existing reinforcing steel which is cut, stretched or damaged by the Contractor during the concrete repair process shall be replaced by embedded reinforcing steel or anchorage, equal to or greater than the size of original reinforcing steel, at no cost to the Department. See Special Provisions for Structural Repair of Concrete.
- The Contractor shall take precautions not to damage existing retaining wall during 5. the construction. Any damage to the existing retaining wall shall be repaired by the Contractor at no additional cost.



EPOXY CRACK INJECTION

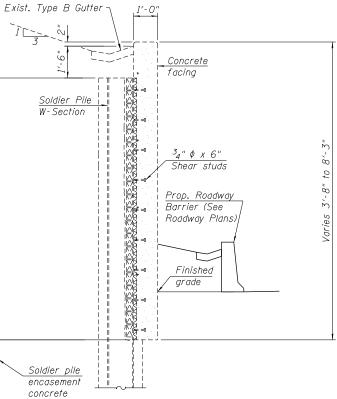


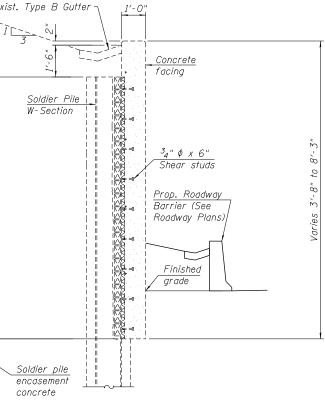
Concrete Sealer Epoxy Crack Injectio Structural Repair of

INDEX OF SHEETS

S8-01 General Plan and Elevation S8-02 General Data S8-03 Repair Plans



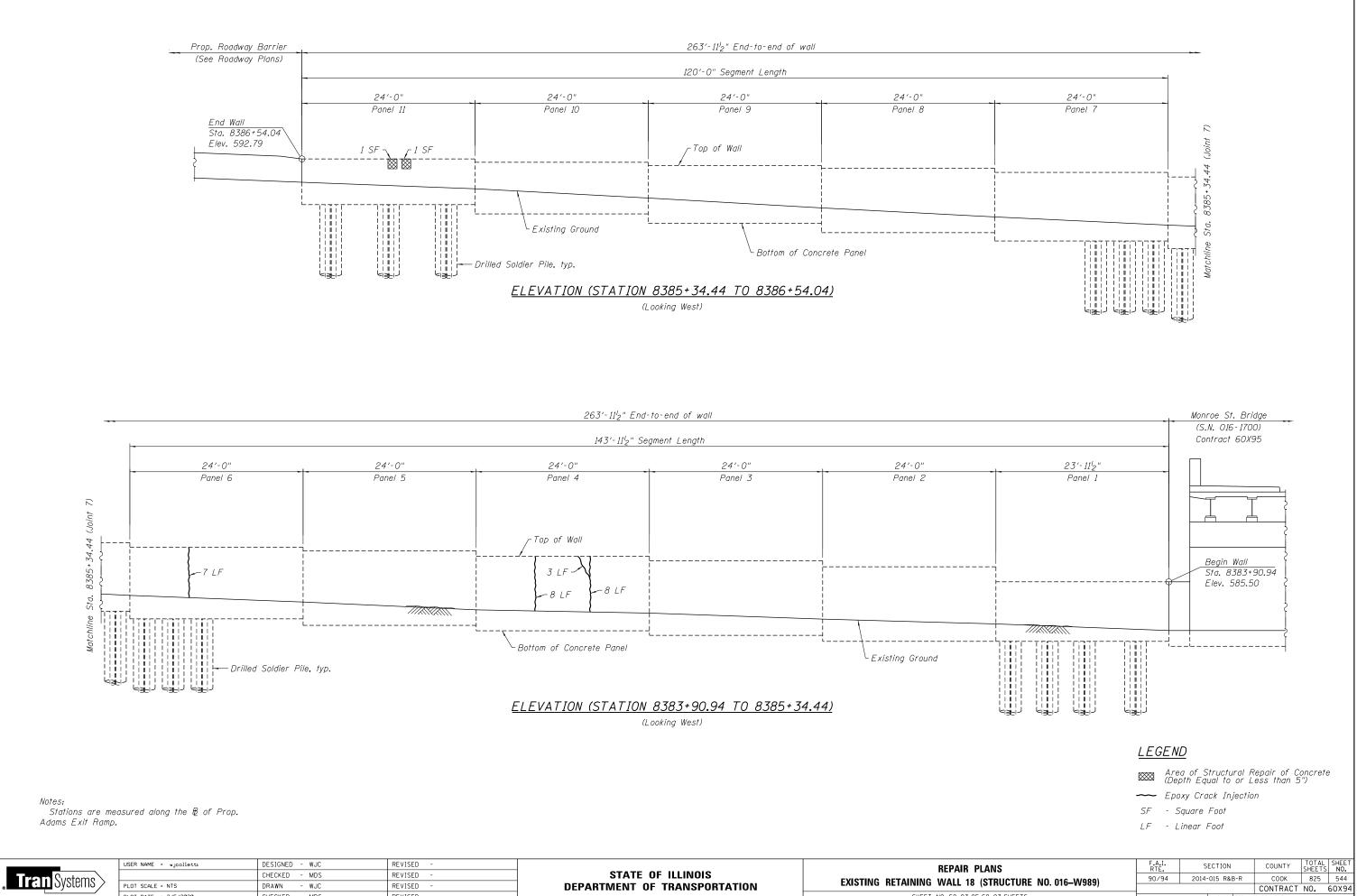




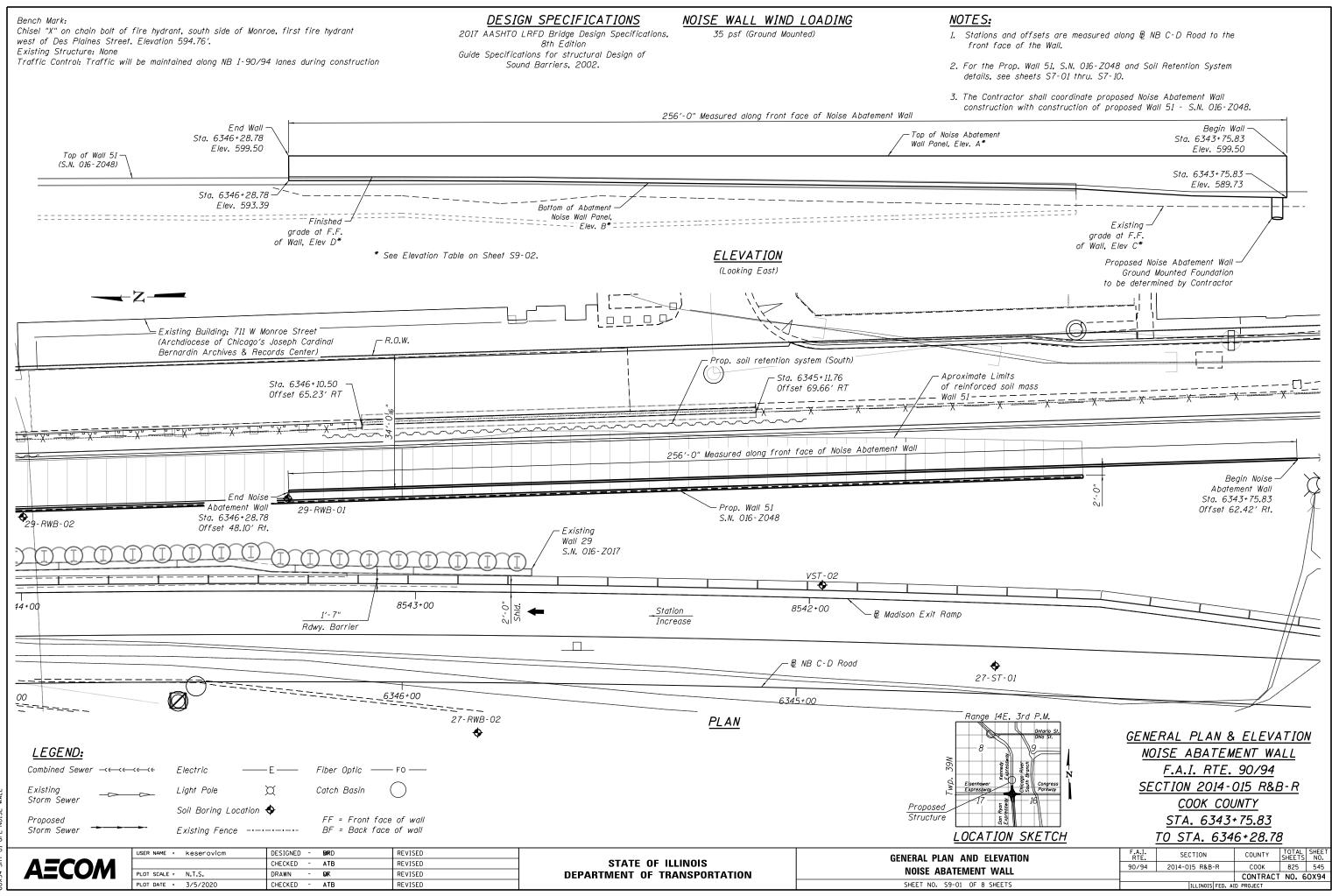
PNP		USER NAME = wjcolletti	DESIGNED - WJC	REVISED -		GENERAL DATA	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
. 46	Tran Systems >		CHECKED - MDS	REVISED -	STATE OF ILLINOIS	EXISTING RETAINING WALL 18 (STRUCTURE NO. 016–W989)	90/94	2014-015 R&B-R	СООК	825 543
2:44		PLOT DATE = 3/5/2020	DRAWN - WJC CHECKED - MDS	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. S8-02 OF S8-03 SHEETS		ILLINOIS FED. 4	CONTRACT	NO. 60X94

<u>total Bill of Material</u>		
ITEM	UNIT	TOTAL QUANTITY
	Sq. Ft.	1,949
on	Foot	26
Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	2

TYPICAL CROSS SECTION



	USER NAME = wjcollett:	DESIGNED - WJC CHECKED - MDS	REVISED - REVISED -	STATE OF ILLINOIS	REPAIR PLANS
م Systems >	PLOT SCALE = NTS	DRAWN - WJC	REVISED -	DEPARTMENT OF TRANSPORTATION	EXISTING RETAINING WALL 18 (STRU
	PLOT DATE = 3/5/2020	CHECKED - MDS	REVISED -		SHEET NO. S8-03 OF S8-03 S

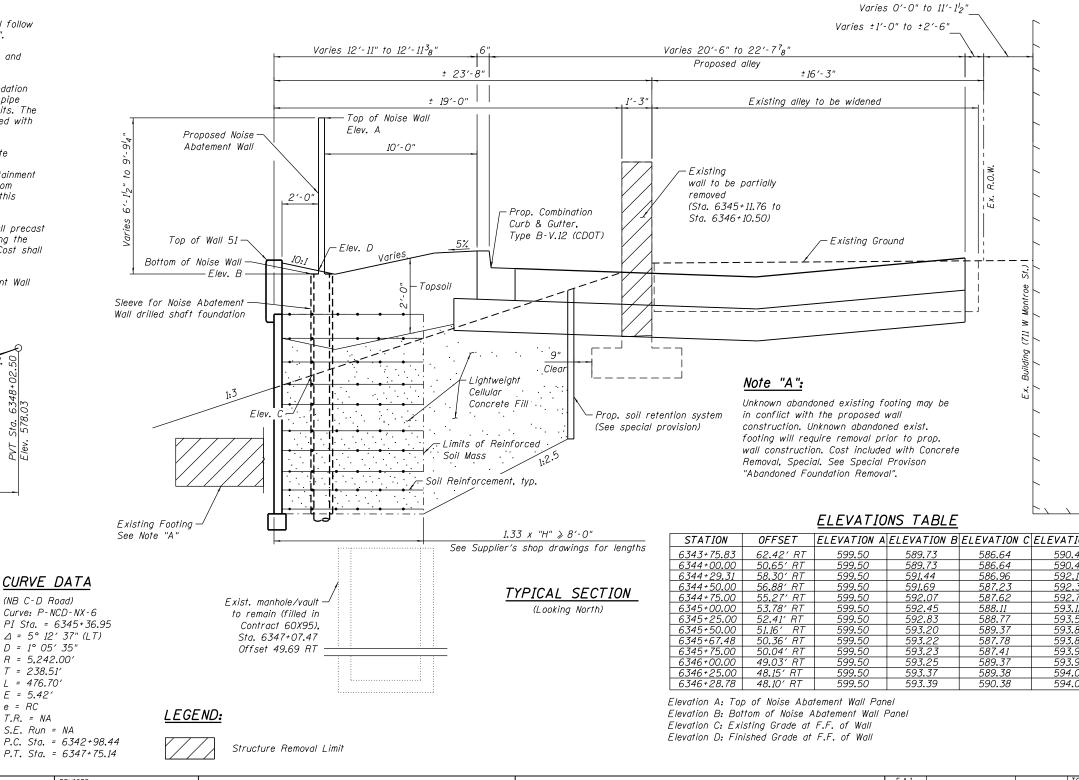


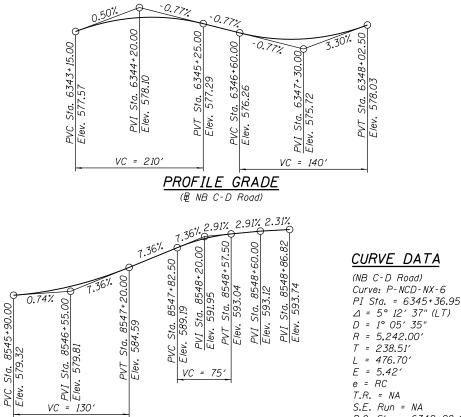
GENERAL NOTES

- 1. Contractor shall follow requirements of Special Provision "Ground Mounted Concrete Noise Abatement Walls (Absorptive and Reflective)" for material, design, fabrication, construction and erection requirements of the proposed Noise Abatement Wall.
- 2. The Contractor shall field verify location of existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.
- 3. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent buildings and utilities. See Contract Special Provision for details.
- 4. Noise Abatement Wall (NAW) drilled shaft foundation construction shall follow the requirements of Special Provision "Foundation Drilling Procedures".
- 5. Noise Abatement Wall (NAW) drilled shaft foundation diameter, depth, and spacing to be determined by Contractor.
- 6. The Contractor shall install pile sleeve around NAW drilled shaft foundation prior to LCCF placement for the Prop. Wall 51, S.N. 016-Z048. The pipe sleeve shall be provided within Prop. Wall 51 reinforced soil mass limits. The annulus between sleeve and NAW drilled shaft foundation shall be filled with loose dry sand.
- 7. The Contractor shall take all necessary precautions not to contaminate groundwater during the Noise Abatement Wall drilled shaft foundation construction operation. Contractor is responsible for the proper containment and disposal of the contaminated groundwater and spoils resulting from Contractor's means and methods. No additional cost will be paid for this effort.
- 8. Contractor shall provide one 4" Ø weep hole per Noise Abatement Wall precast panel. Weep hole shall be located at the center of precast panel along the finished grade elevation at the front face of Noise Abatement Wall. Cost shall be included with Noise Abatement Wall, Ground Mounted.
- 9. The Contractor shall coordinate construction of Prop. Noise Abatement Wall with Wall 51, S.N. 016-Z048 construction.

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	TOTAL
Noise Abatement Wall, Ground Mounted	SQ.FT.	1859
Stainless Steel Cable Plant Support System	L.SUM.	1





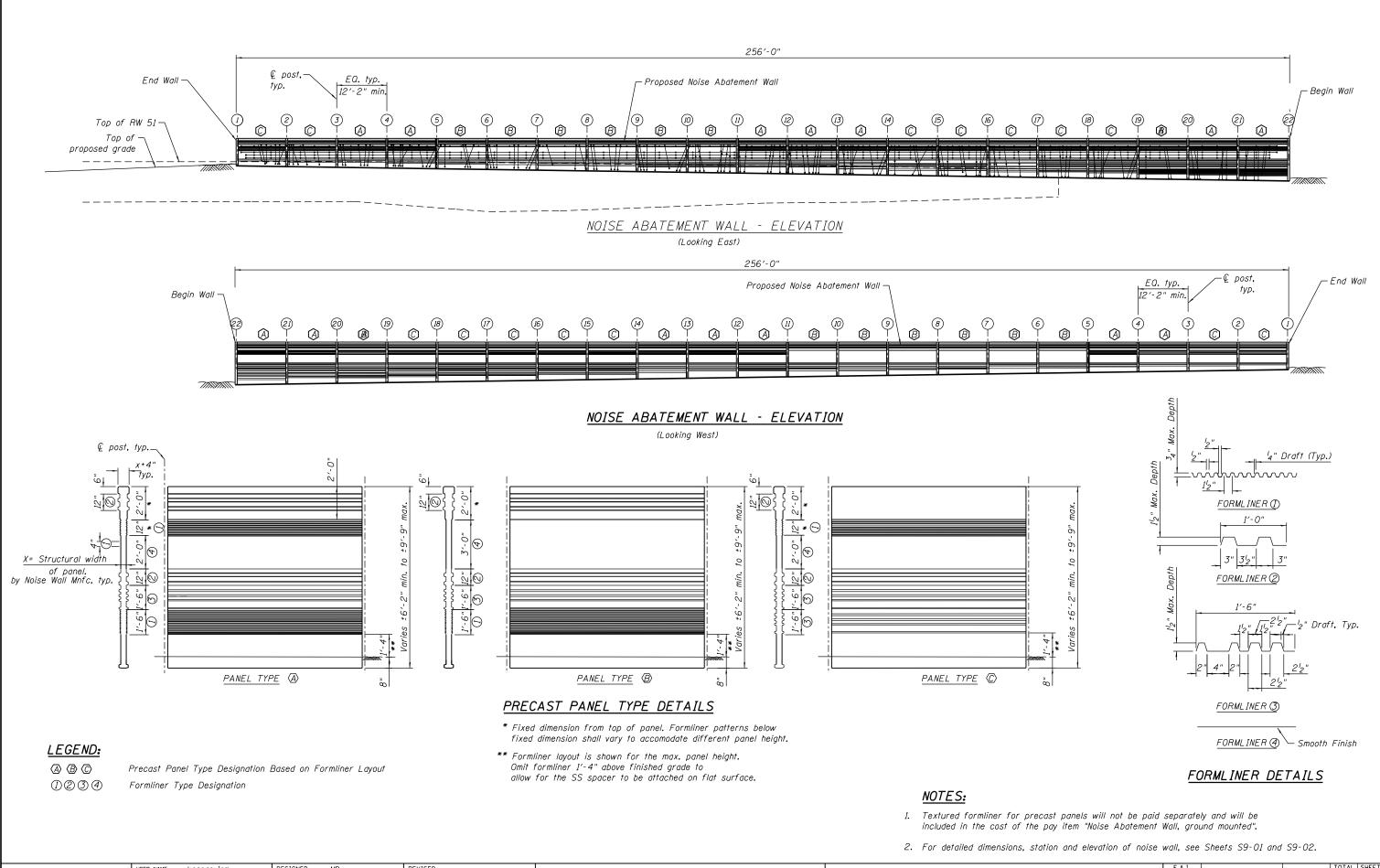
PROFILE GRADE (B Madison NB Exit Ramp)

	USER NAME = keserovicm	DESIGNED - MK	REVISED		TYPICAL SECTION, TOTAL BILL OF MATERIAL INDEX OF SHEETS & GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
AECOM		CHECKED - ATB	REVISED	STATE OF ILLINOIS	NOISE ABATEMENT WALL	90/94	2014-015 R&B-R	СООК 825 546
AECOM	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION	NOISE ADAILIMENT WALL			CONTRACT NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S9-02 OF 8 SHEETS		ILLINOIS FED. A	ID PROJECT

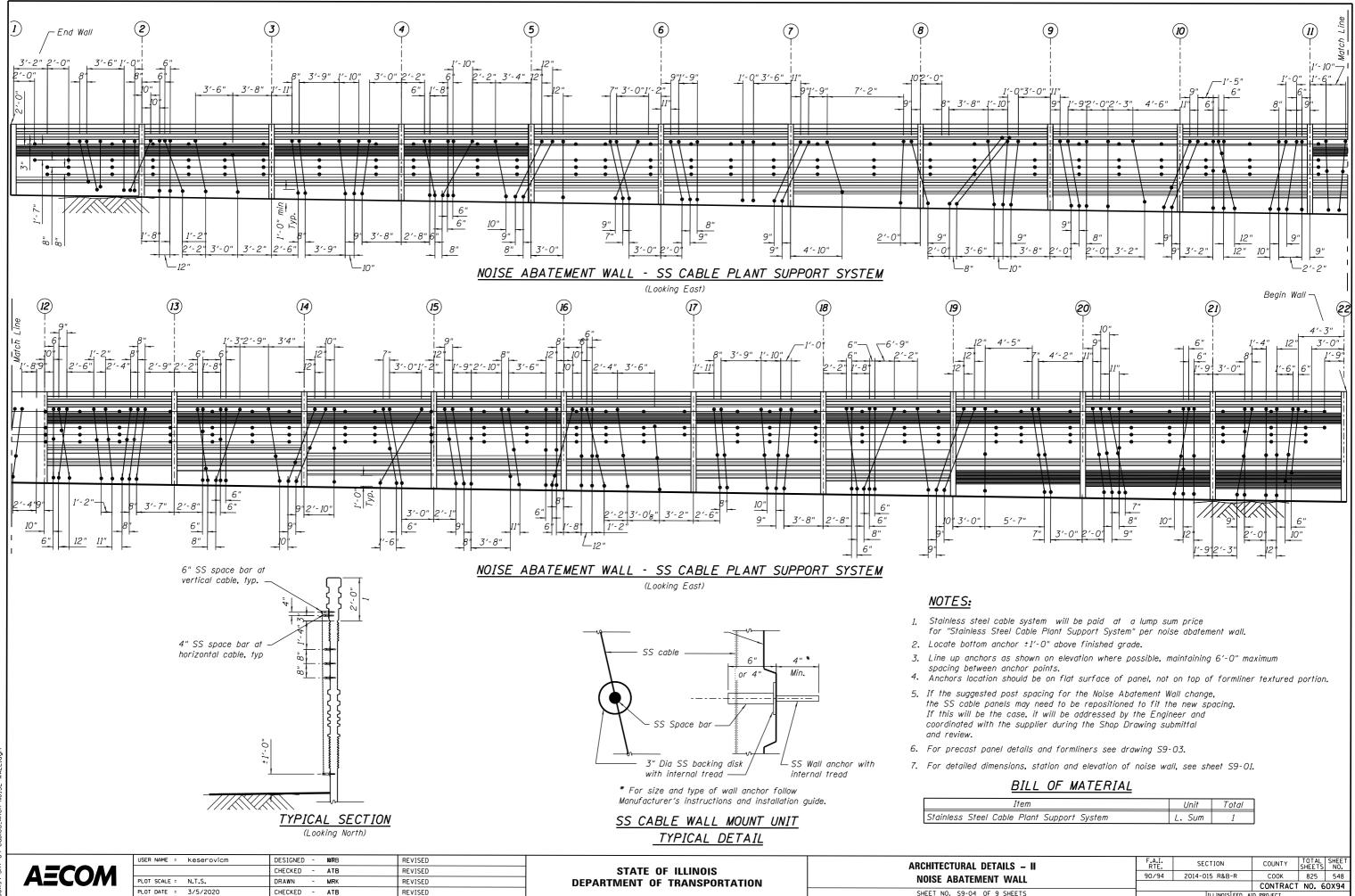
INDEX OF SHEETS:

S9-01 S9-02 S9-03 S9-04 S9-05 S9-06 S9-07 S9-08	General Plan and Elevation Typical Section,Total Bill of Material, Index of Sheets & General Notes Arhitectural Details I Arhitectural Details II Boring Logs I Boring Logs III Boring Logs IV
55 00	Boling Logs IV

'ON	OFFSET	ELEVATION A	ELEVATION B	ELEVATION C	ELEVATION D
5.83	62.42′ RT	599.50	589.73	586.64	590.40
0.00	50.65′ RT	599.50	589.73	586.64	590.40
9.31	58.30′ RT	599.50	591.44	586.96	592.11
0.00	56 . 88′ RT	599.50	591.69	587.23	592.36
5.00	55.27′ RT	599.50	592.07	587 . 62	592.74
0.00	53.78′ RT	599.50	592.45	588.11	593 . 12
25.00	52.41′ RT	599.50	592.83	588.77	593.50
0.00	51 . 16′ RT	599.50	593.20	589.37	593.87
7.48	50.36′ RT	599.50	593.22	587.78	59 3.8 9
5.00	50.04′ RT	599.50	593.23	587.41	593.90
0.00	49.03′ RT	599.50	593.25	589.37	593.92
5.00	48.15′ RT	599.50	593.37	589.38	594.04
8.78	48.10′ RT	599.50	593.39	590.38	594.06

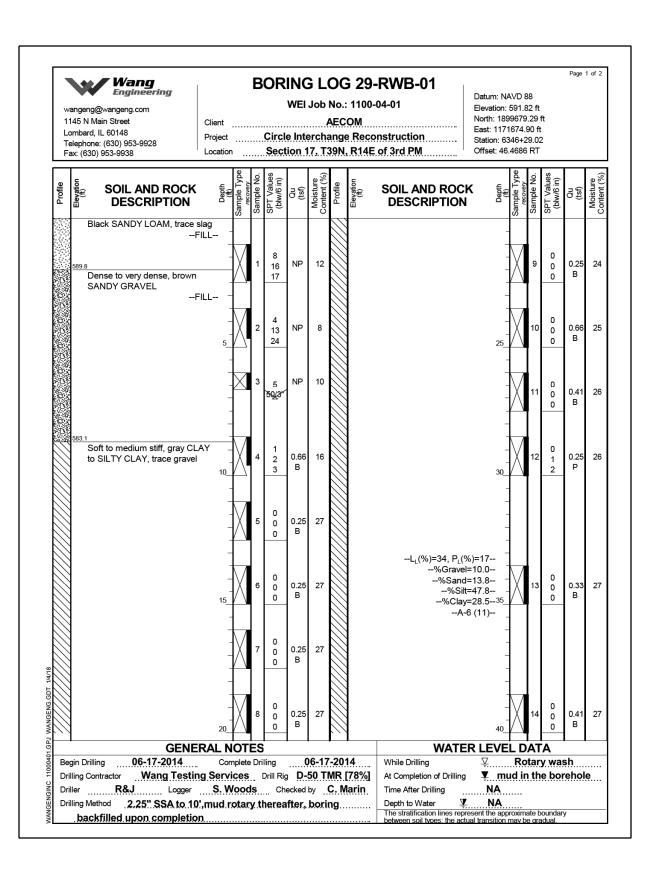


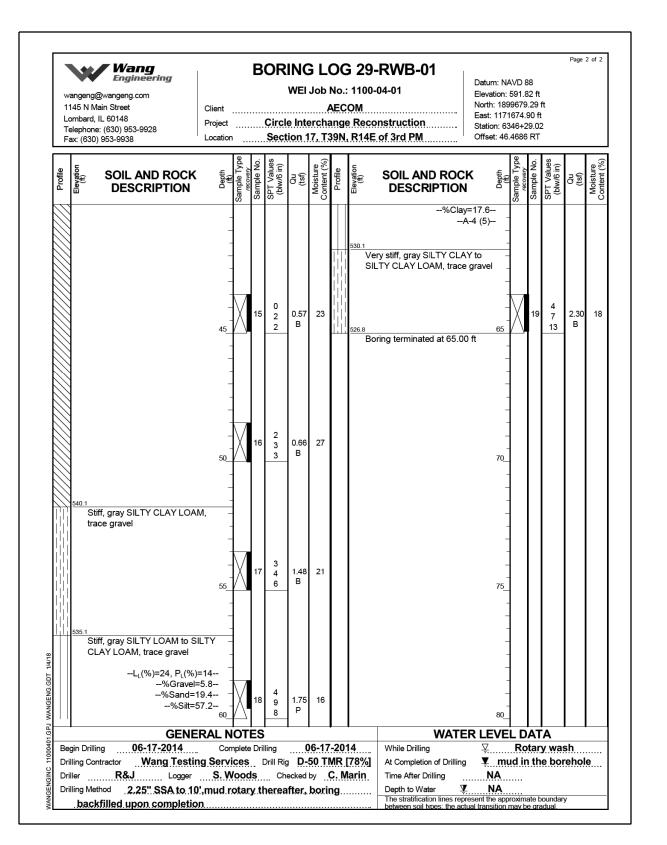
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ΔΞϹΟΜ		CHECKED - ATB	REVISED	STATE OF ILLINOIS	NOISE ABATEMENT WALL	90/94 2014-015 R&B-R	СООК 825 547
AECOM	PLOT SCALE = N.T.S.	DRAWN - MR	REVISED	DEPARTMENT OF TRANSPORTATION	NUISE ADATEIWENT WALL		CONTRACT NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S9-O3 OF 9 SHEETS	ILLINOIS FED. /	AID PROJECT



REVISED SHEET NO. S9-04 OF

ETAILS – II	RTE.	SE	CTION		COUNTY	SHEETS	NO.
NT WALL	90/94	2014-015 R&B-R			СООК	СООК 825	
					CONTRACT	NO. 6	0X94
F 9 SHEETS			ILLINOIS	FED. AI	D PROJECT		





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 MK
 Revised

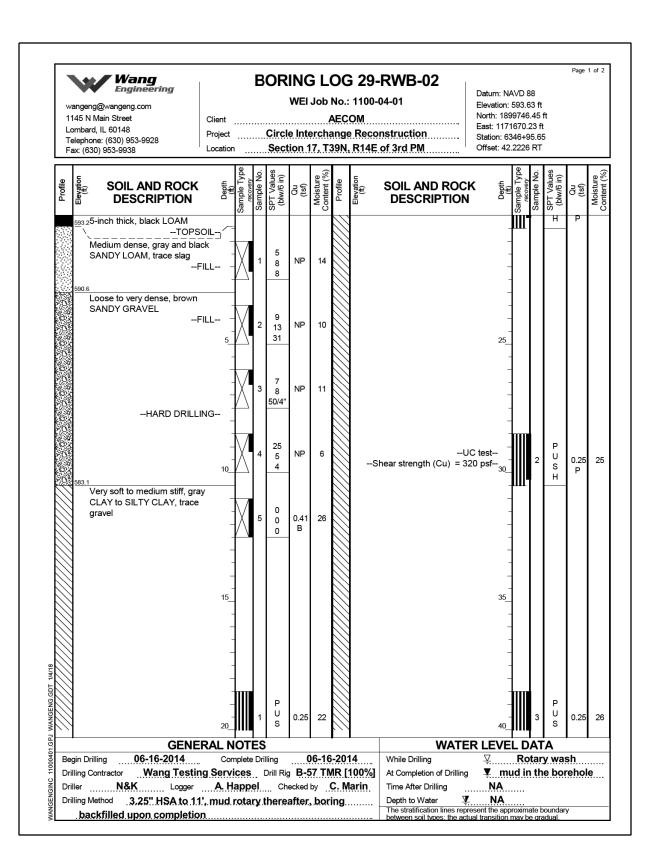
 CHECKED
 - ATB
 Revised

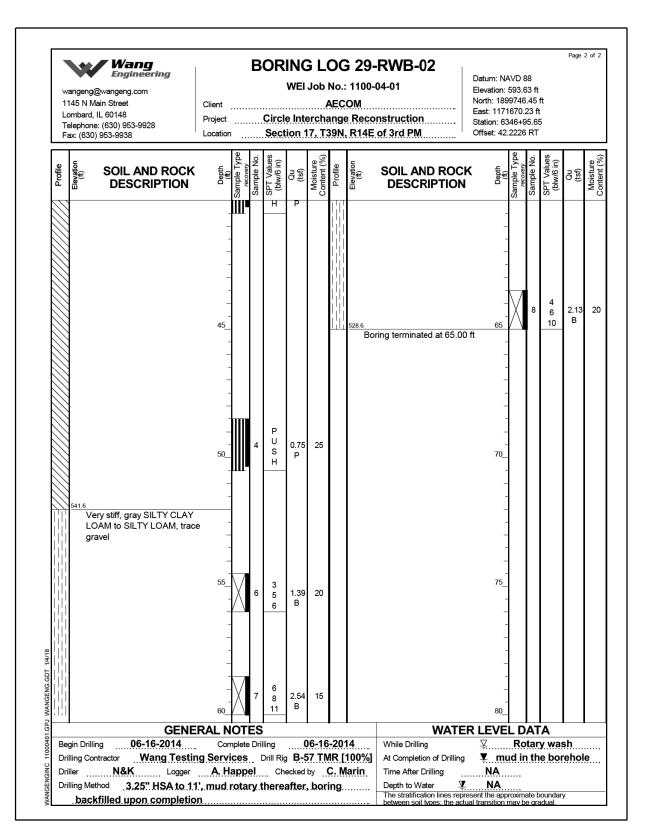
 S.
 DRAWN
 - MK
 Revised

 V2020
 CHECKED
 - ATB
 Revised

NOTE:

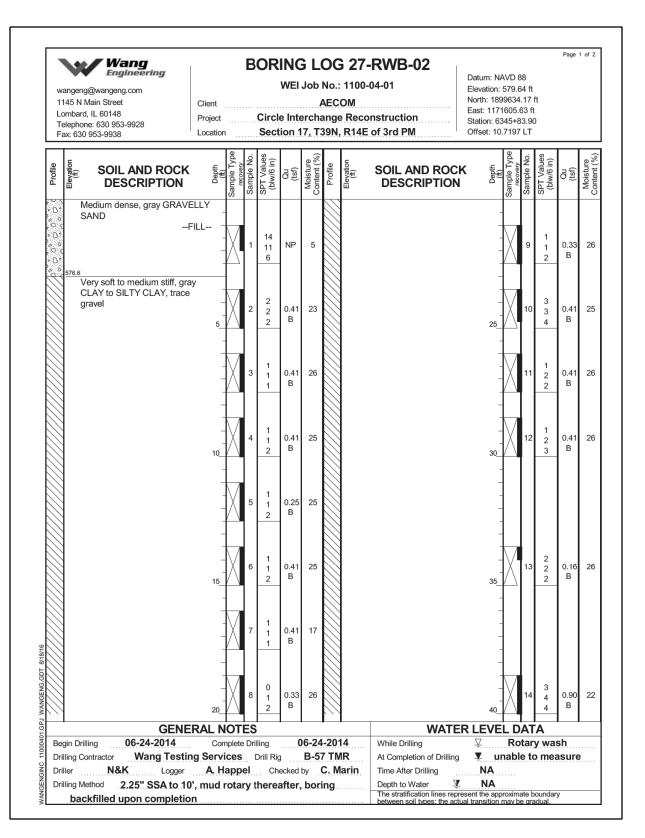
OGS – I	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
MENT WALL	90/94	2014-015 R&B-R	СООК	825	549		
VIEINI VVALL	CONTRACT NO. 60X94						
OF 8 SHEETS		ILLINOIS FED. AI	D PROJECT				

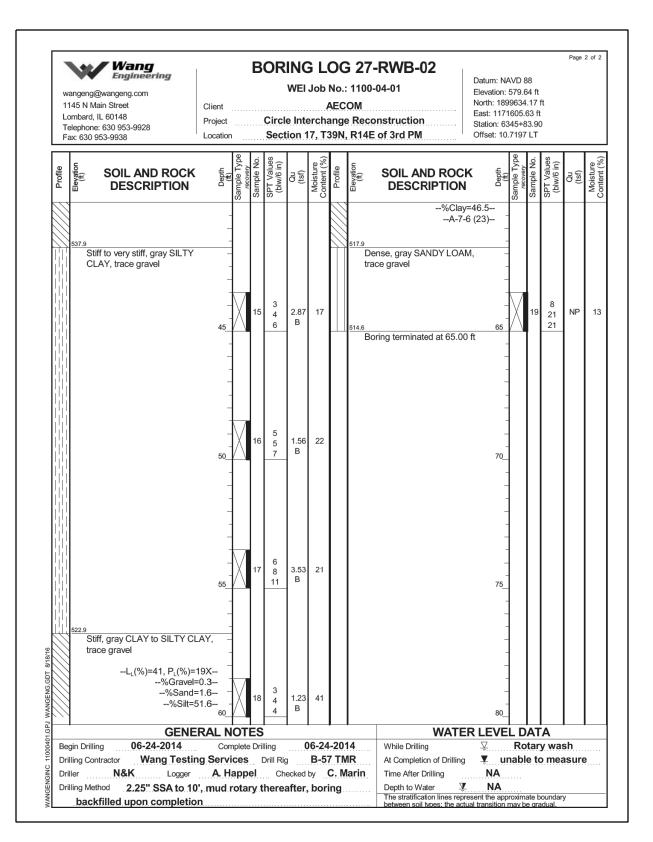




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MO		CHECKED - ATB	REVISED	STATE OF ILLINOIS		90/94	2014-015 R&B-R		825 550
	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION	NOISE ABATEMENT WALL			CONTRACT N	NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S9-06 OF 8 SHEETS		ILLINOIS FED. A	ID PROJECT	

NOTE:

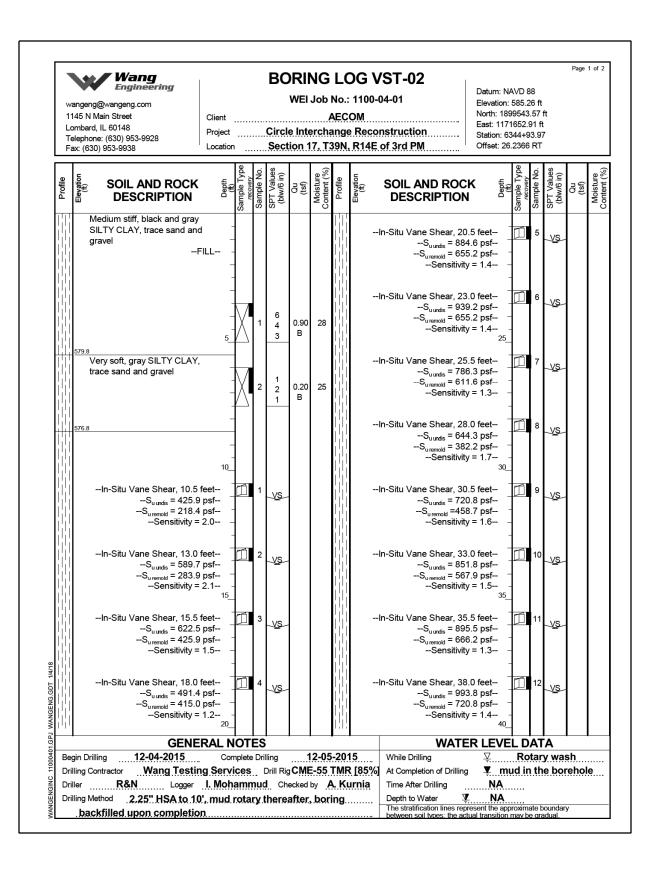


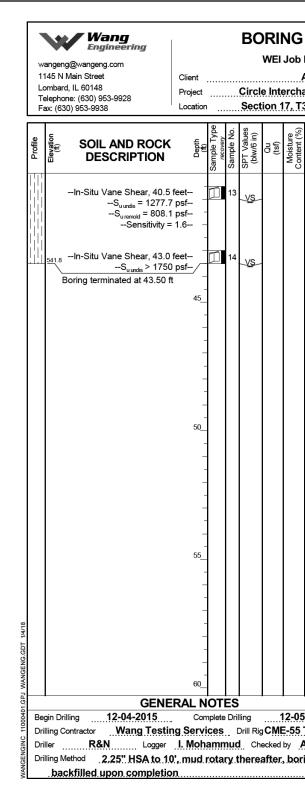


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ЮM		CHECKED - ATB	REVISED	STATE OF ILLINOIS	NOISE ABATEMENT WALL	90/94	2014-015 R&B-R	СООК	825 551
	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT	T NO. 60X94
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S9-07 OF 8 SHEETS		ILLINOIS FED. A	D PROJECT	

NOTE:

1. Station and offset are measured along ₿ Madison Exit Ramp.



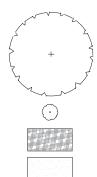


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ЮM		CHECKED - ATB	REVISED	STATE OF ILLINOIS	NOISE ABATEMENT WALL	90/94 2014-015	5 R&B-R C(OK 825	552
	PLOT SCALE = N.T.S.	DRAWN - MK	REVISED	DEPARTMENT OF TRANSPORTATION	NUIJE ADATEINIENT WALL		CON	TRACT NO. 6	60X94
	PLOT DATE = 3/5/2020	CHECKED - ATB	REVISED		SHEET NO. S9-08 OF 8 SHEETS	IL	LINOIS FED. AID PROJE	CT	

IG LOG V lob No.: 1100-(AECOM rchange Record 7, T39N, R14E	04-01 nstruction	Page 2 of 2 Datum: NAVD 88 Elevation: 585.26 ft North: 1899543.57 ft East: 1171652.91 ft Station: 6344+93.97 Offset: 26.2366 RT					
Moisture Content (%) Profile Elevation (ft)	SOIL AND ROC DESCRIPTION	Depth X	Sample Type recovery Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	
2-05-2015	WATE While Drilling	ER LEVE ♀	Rota	ry wa			
55 TMR [85%] A. Kurnia boring	At Completion of Drilling Time After Drilling Depth to Water	NA <u>A</u> resent the app	roximate	boundar		e	
	between soil types: the act	tual transition r	nav be d	radual.	,		

NOTE:





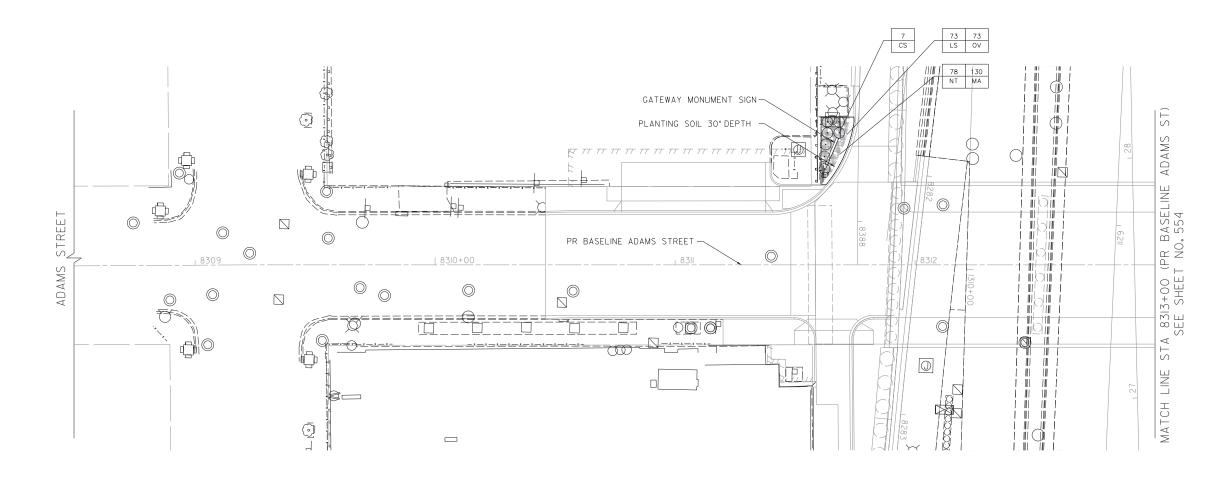
			PLANT SCHEDULE			
SHRUBS						
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
CS	7	Cornus sericea 'Farrow'	Farrow Red Twig Dogwood	30" H	5 gal	per plan
PERENNIAI	S (PAY ITEN	M K0012990)	· · · ·			
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
LS	73	Liriope spicata	Creeping Lilyturf	#1	pot	12" oc
OV	73	Origanum vulgare 'Aureum'	Golden Oregano	#1	pot	12" oc
BULBS (PA	Y ITEM K001	2970)	· · · ·			
CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
NT	78	Narcissus 'Tete-a-tete'	Daffodil	bulb	bulb	In groups of 3, 18" o
MA	130	Muscari armeniacum	Grape Hyacinth	bulb	bulb	In groups of 5, 18" o

SHRUB

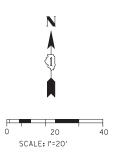
SHADE TREE

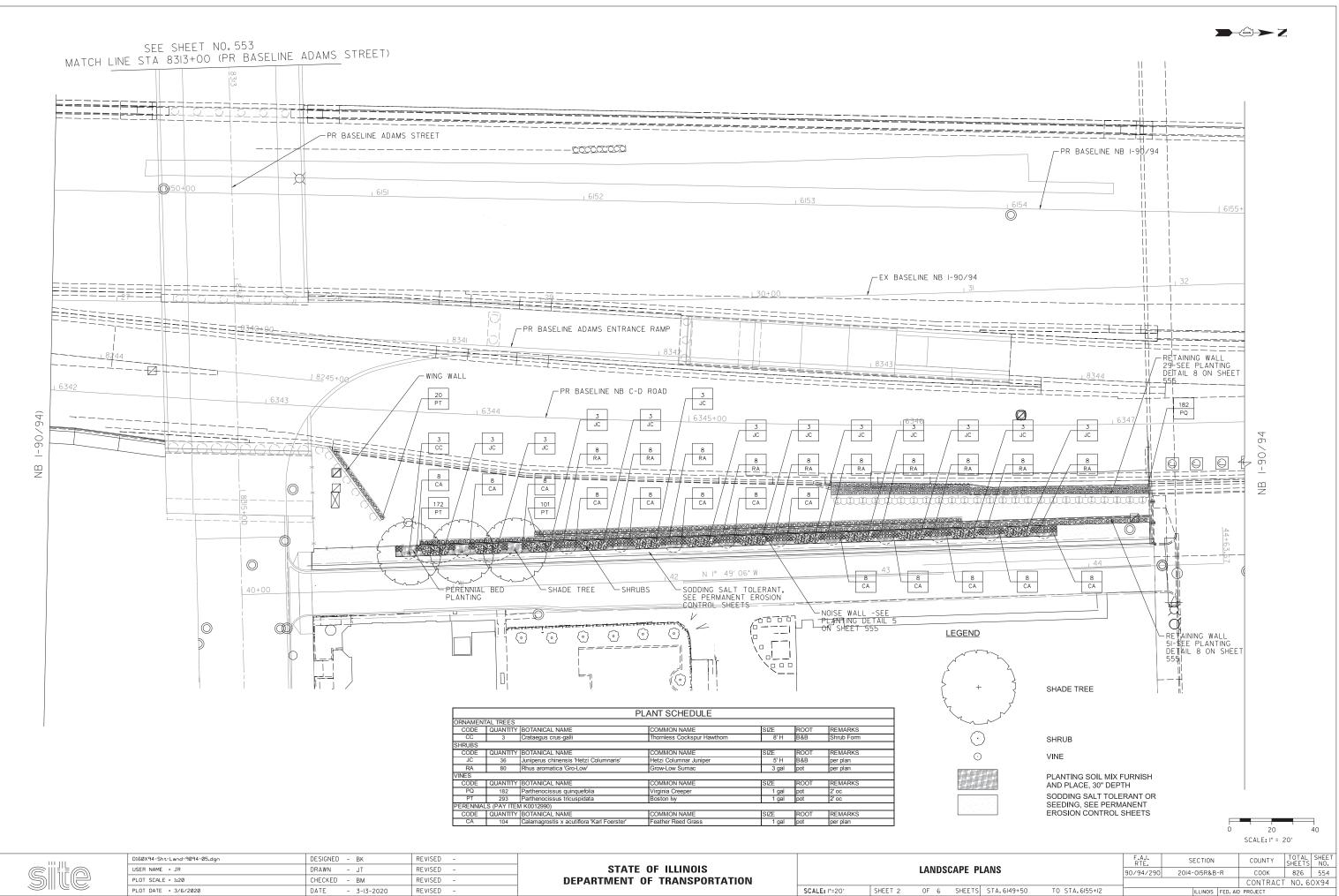
PLANTING SOIL MIX FURNISH AND PLACE, 30" DEPTH

SODDING SALT TOLERANT OR SEEDING, SEE PERMANENT EROSION CONTROL SHEETS

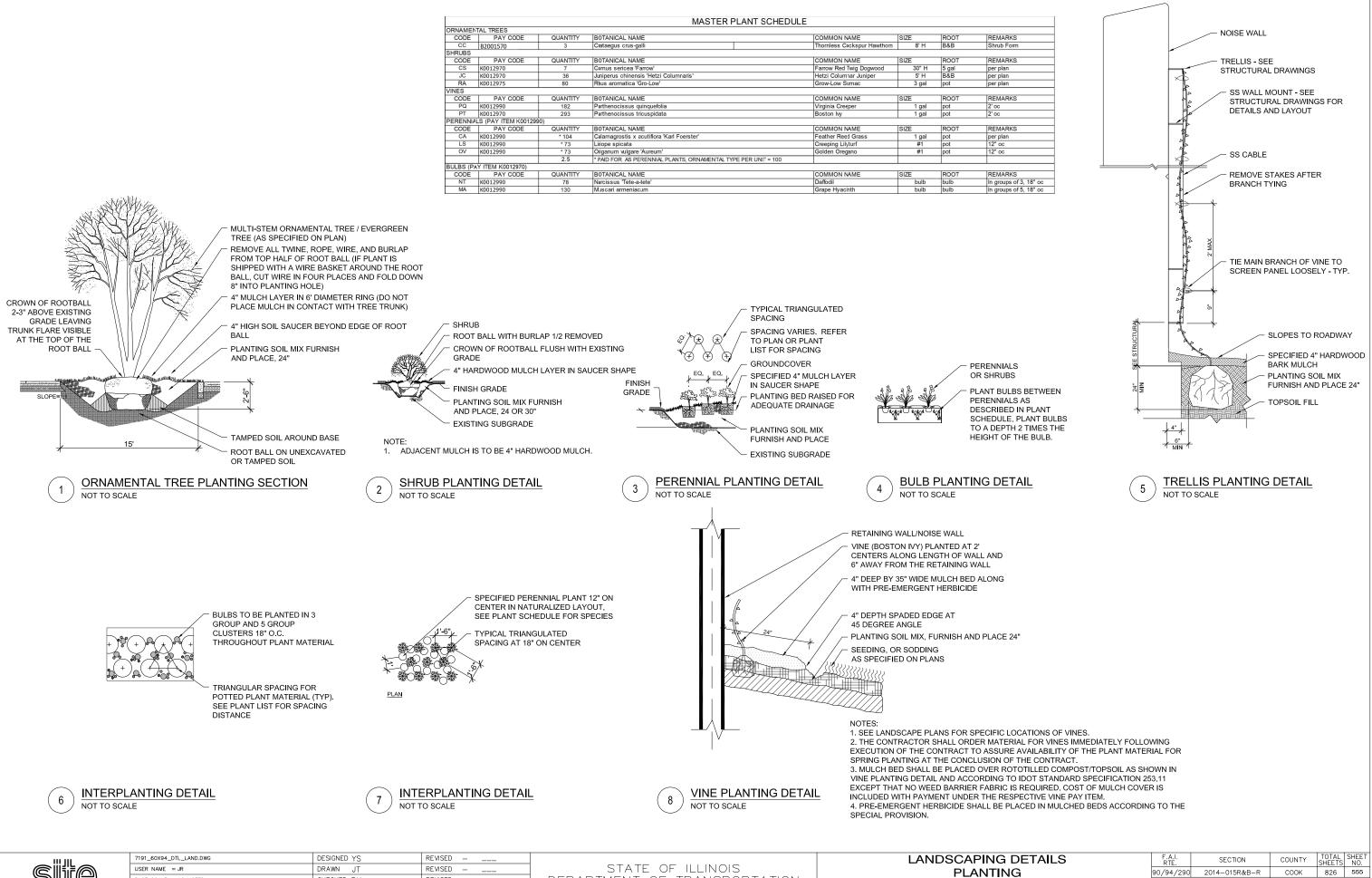


101														
	111.111	D160X94-Sht-Land-01.dgn	DESIGNED - BK	REVISED -							F.A.I. BTE	SECTION	COUNTY	TOTAL SHEET
ATH		USER NAME = JR	DRAWN - JT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCA	LANDSCAPE PLANS				90/94/290	2014-015R&B-R	СООК	826 553	
с Ш		PLOT SCALE = 1:20	CHECKED - BM	REVISED -									CONTRAC	T NO.60X94
EI.		PLOT DATE = 3/9/2020	DATE - 3-13-2020	REVISED -		SCALE: I"=20'	SHEET I	OF 6	SHEETS STA.8308+00	TO STA.8313+00		ILLINOIS FED. A	ID PROJECT	



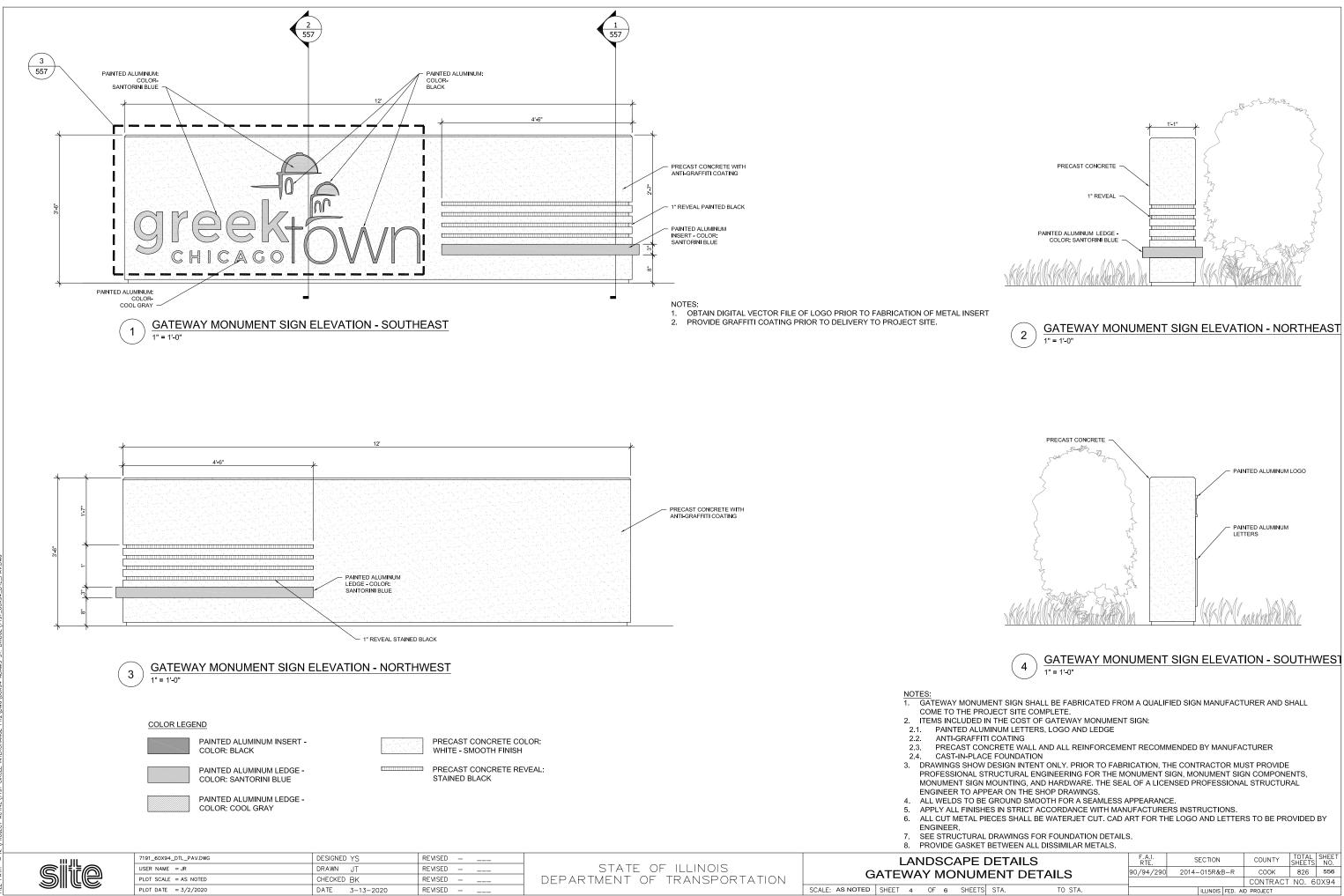


			MASTER PLANT SCHEDU	IF			
ORNAME	TAL TREES						
CODE	PAY CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMAR
CC	B2001570	3	Crataegus crus-galli	Thornless Cockspur Hawthorn	8' H	B&B	Shrub F
SHRUBS					1		
CODE	PAY CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMAR
CS	K0012970	7	Cornus sericea 'Farrow'	Farrow Red Twig Dogwood	30" H	5 gal	per plar
JC	K0012970	36	Juniperus chinensis 'Hetzi Columnaris'	Hetzi Columnar Juniper	5' H	B&B	per plar
RA	K0012975	80	Rhus aromatica 'Gro-Low'	Grow-Low Sumac	3 gal	pot	per pla
VINES							
CODE	PAY CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMAR
PQ	K0012990	182	Parthenocissus quinquefolia	Virginia Creeper	1 gal	pot	2' oc
PT	K0012970	293	Parthenocissus tricuspidata	Boston Ivy	1 gal	pot	2' oc
PERENNIA	LS (PAY ITEM K00129	90)					I
CODE	PAY CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMAR
CA	K0012990	* 104	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	1 gal	pot	per plai
LS	K0012990	* 73	Liiiope spicata	Creeping Lilyturf	#1	pot	12" oc
OV	K0012990	* 73	Oiganum vulgare 'Aureum'	Golden Oregano	#1	pot	12" oc
		2.5	* PAID FOR AS PERENNIAL PLANTS, ORNAMENTAL TYPE PER UNIT = 100				
BULBS (P.	AY ITEM K0012970)						
CODE	PAY CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMAR
NT	K0012990	78	Narcissus 'Tete-a-tete'	Daffodil	bulb	bulb	In group
MA	K0012990	130	Muscari armeniacum	Grape Hyacinth	bulb	bulb	In grout

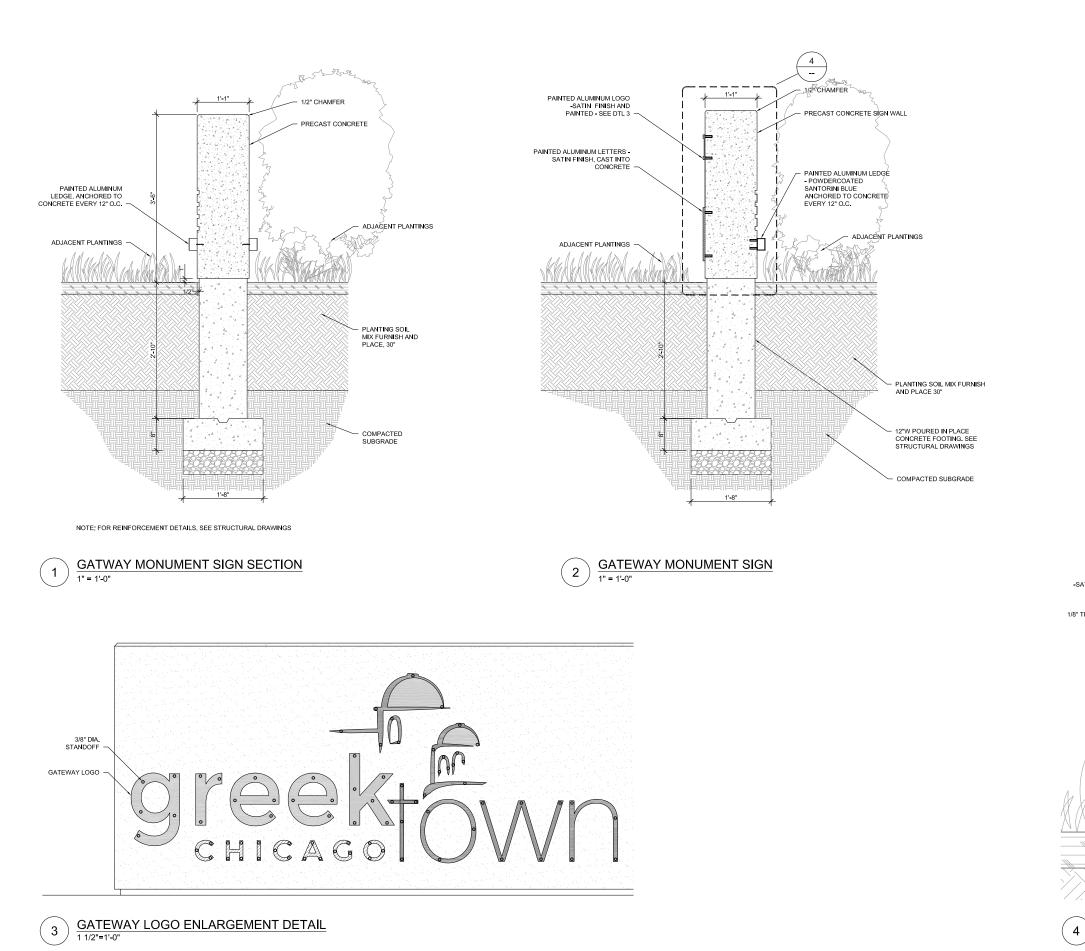


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	PLOT SCALE = AS NOTED	CHECKED BK	REVISED	DEPARTMENT OF TRANSPORTATION			1			
	PLOT DATE = $3/2/2020$	DATE 3-13-2020	REVISED		SCALE: AS NOTED	SHEET	з OF	6	SHEETS	
					•					

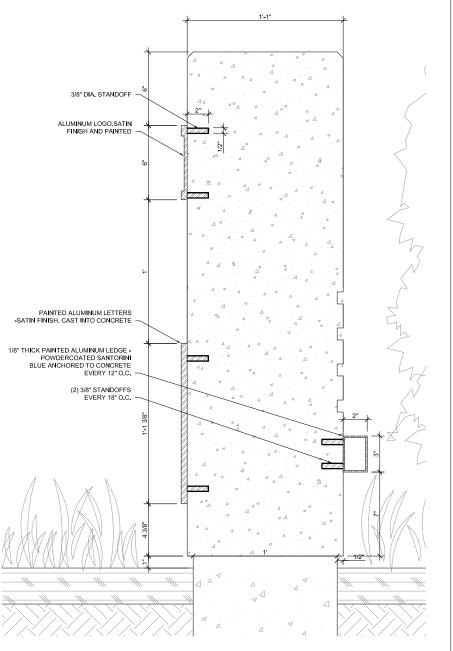
CONTRACT NO. 60X94 TS STA. TO STA ILLINOIS FED. AID PROJECT



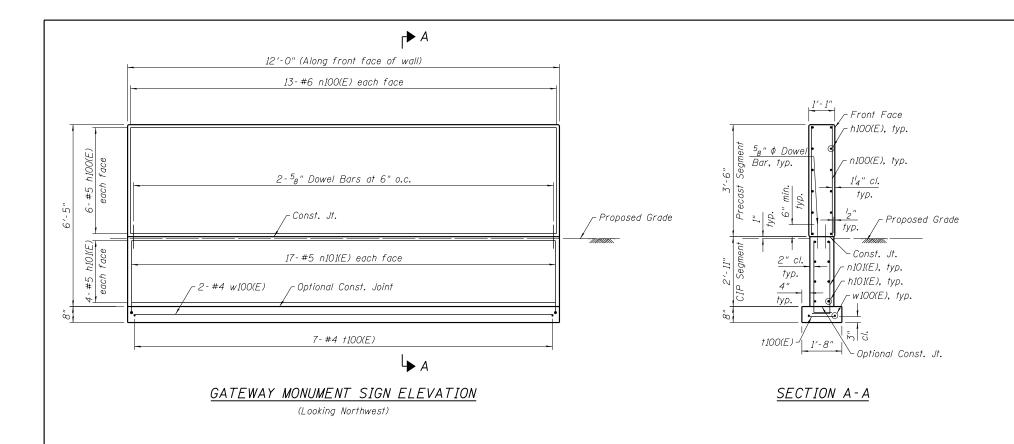
Л	MENT DETAILS		90/94/290	2014-	-015R&I	3–R		COOK	826	55
•••			_					CONTRACT	NO.	60X9
rs	STA.	TO STA.			ILLINOIS	FED. /	١D	PROJECT		
			•		•					



7191_60X94_DT	TL_PAV.DWG DESIGNED YS	REVISED		LANDSCAPE DETAILS	F.A.I. RTF	SECTION	COUNTY TOTAL SHEET
	jr DRAWN JT	REVISED	STATE OF ILLINOIS	GATEWAY MONUMENT DETAILS	90/94/290	2014-015R&B-R	COOK 826 557
7191_60X94_DT USER NAME = PLOT SCALE = PLOT SCALE =	AS NOTED CHECKED BK	REVISED	DEPARTMENT OF TRANSPORTATION	GATEWAT MONOWENT DETAILS			CONTRACT NO. 60X94
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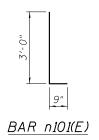
$\underset{3"=1'-0"}{\text{GATEWAY MONUMENT SIGN ENLARGED SECTION DETAIL}}$



	USER NAME = vljanachione	DESIGNED - WJC	REVISED -		GATEWAY MONUMENT	F.A.I. RTE	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
, Tran Systems		CHECKED - MJL	REVISED -	STATE OF ILLINOIS	SIGN DETAILS	90/94/290	2014-015R&B-R	СООК	825	558
	PLOT SCALE = 4:0 ':' / in. PLOT DATE = 3/6/2020	DRAWN - HC DATE - 3-6-2020	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 6 OF 6 SHEETS		ILLINOIS FED. 4	CONTRAC	T NO. 60	

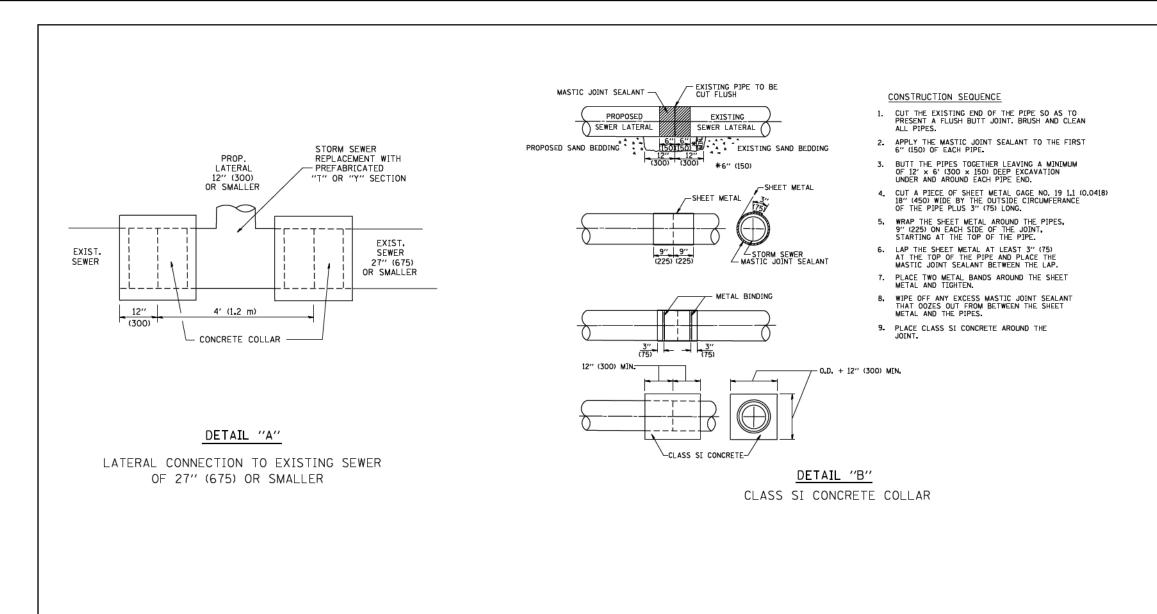
	<u>B</u>	ILL C	DF MA	TERIA	<u>L</u>
	Bar	No.	Size	Length	Shape
**	h100(E)	12	#5	11'- 10"	
**	h101(E)	8	#5	11'-8"	
**	n100(E)	26	#6	3′-5″	
**	n101(E)	34	#5	3′-9″	
**	†100(E)	7	#4	1'-2"	
**	w100(E)	2	#4	11′-6″	
**	Protective	Coat		Sq. Yd.	12
**	Dowel Bars	5/8"		Each	50
**	Concrete S	tructure	S	Cu. Yd.	1.8
**	Reinforcem	ent Bar	s,	Pound	540
	Epoxy Coat	ed			
**	Precast Wa	ll Type	A	Foot	12
	Gateway Mo	nument		Each	1
	Sign Compl	ete			

**For reference only. Cost included in Gateway Monument Sign Complete.



NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- Protective coat shall be applied to all exposed faces of sign.
 Exposed concrete edges shall have a standard ¹/₂" chamfer UNO. Chamfer on vertical edges shall continue a minimum of 1'-0" below finished grade.
- Maximum allowable bearing pressure is 2.0 ksf.
 Maximum excavation slope is 1:2 (V:H).
- 6. l_2 " PJF shall conform to Article 1051.09 of the Standard Specifications. Cost included with Gateway Monument Sign Complete.



NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
- A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
- B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST

BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

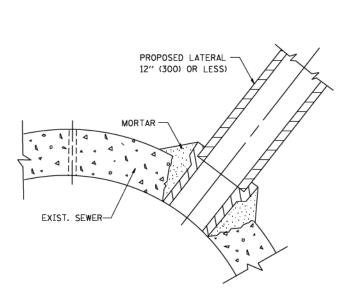
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

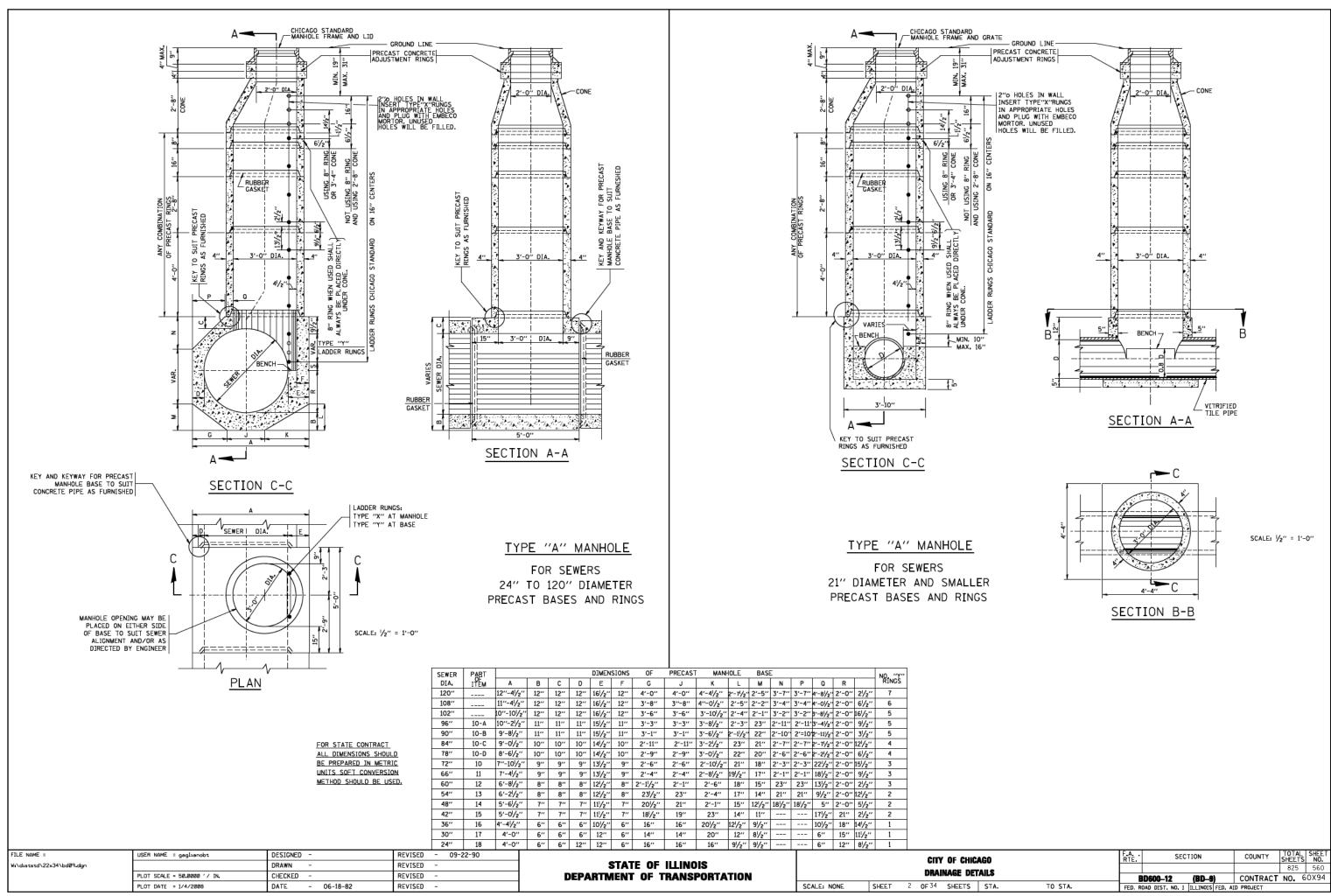
						UTHERWISE SHOWN.	
FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92		DETAIL OF STORM SEWER	F.A. SECTION	COUNTY TOTAL SHEET
Wi\diststd\22x34\bd07.dgn		DRAWN -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS			825 559
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. SHAH 10-25-94	DEPARTMENT OF TRANSPORTATION	CONNECTION TO EXISTING SEWER	BD500-01 (BD-7)	CONTRACT NO. 60X94
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96		SCALE: NONE SHEET 1 OF 34 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	

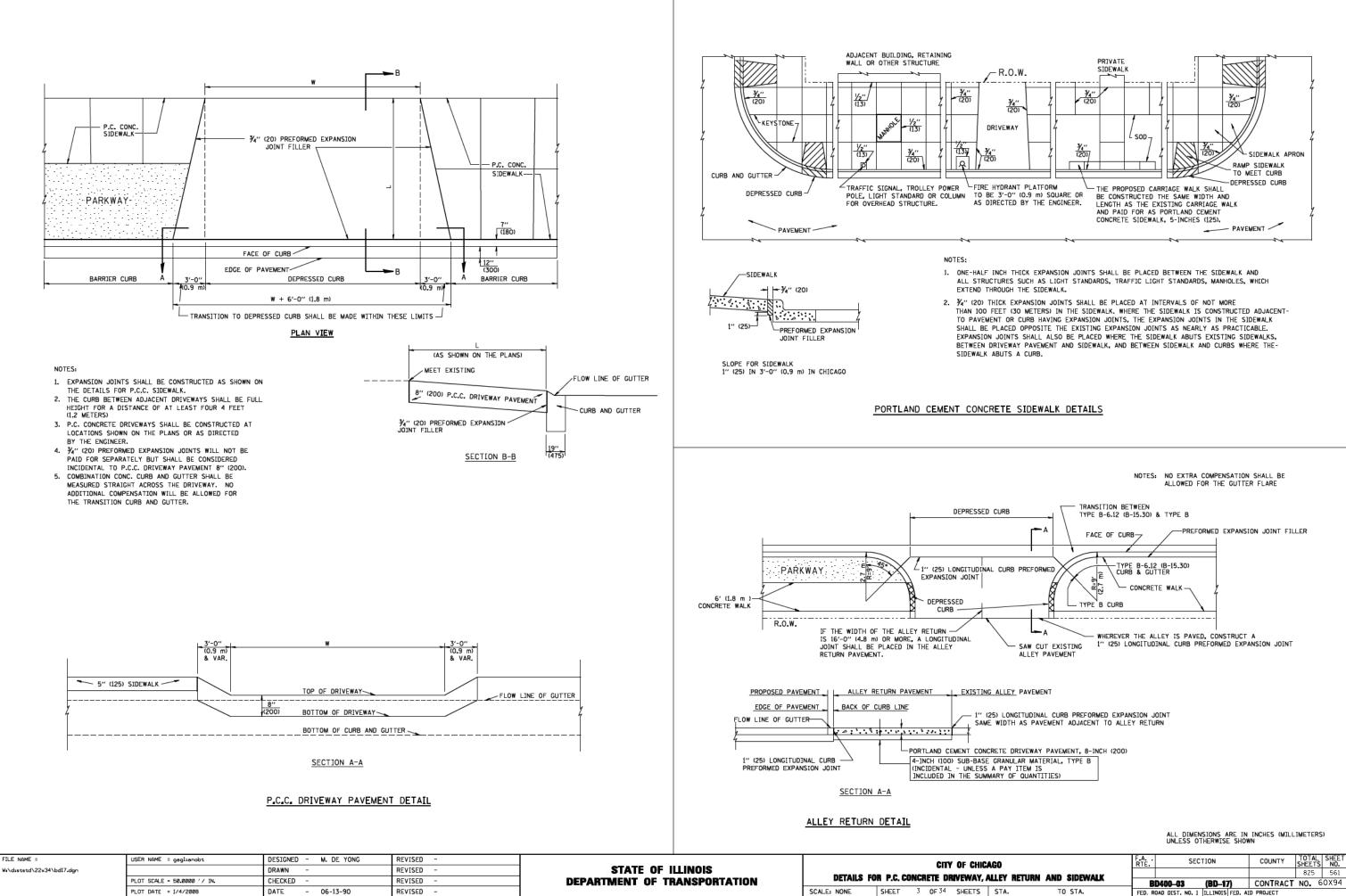
PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

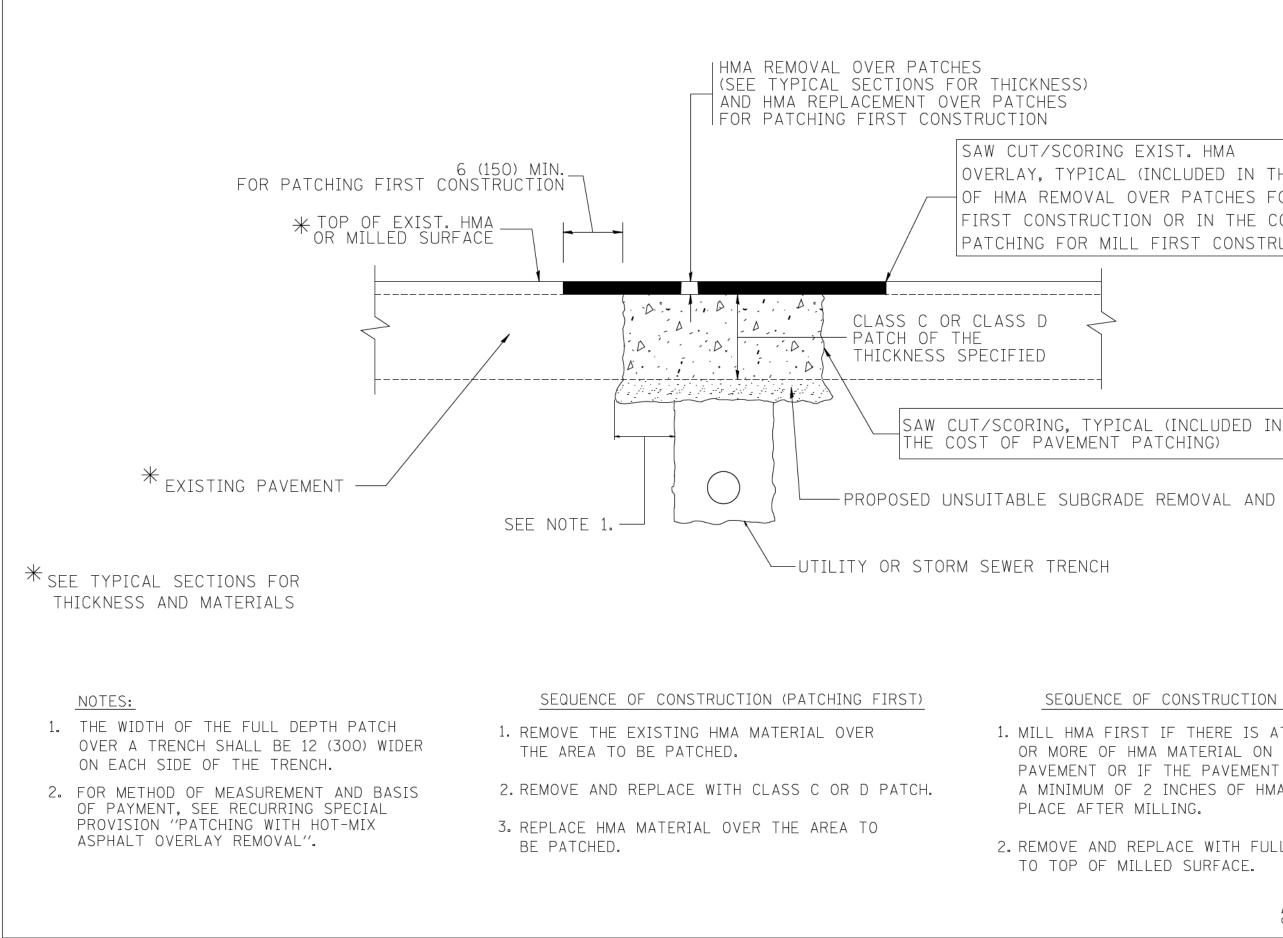
DETAIL "C"







BD400-03 (BD-17) CONTRACT NO. 60X94 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98				DAVEMENT				F.A	SEC	TION	COUNTY	TOTAL SHEET
cı\projects\dststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT										825 562
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION				AVEMENT			3D400-04 (BD-22)	CONTRA	CT NO. 60X94	
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET 4	OF 34	SHEETS	STA.	TO STA.	FED. ROA	D DIST. NO. 1	ILLINOIS FE	D. AID PROJECT	

OVERLAY. TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

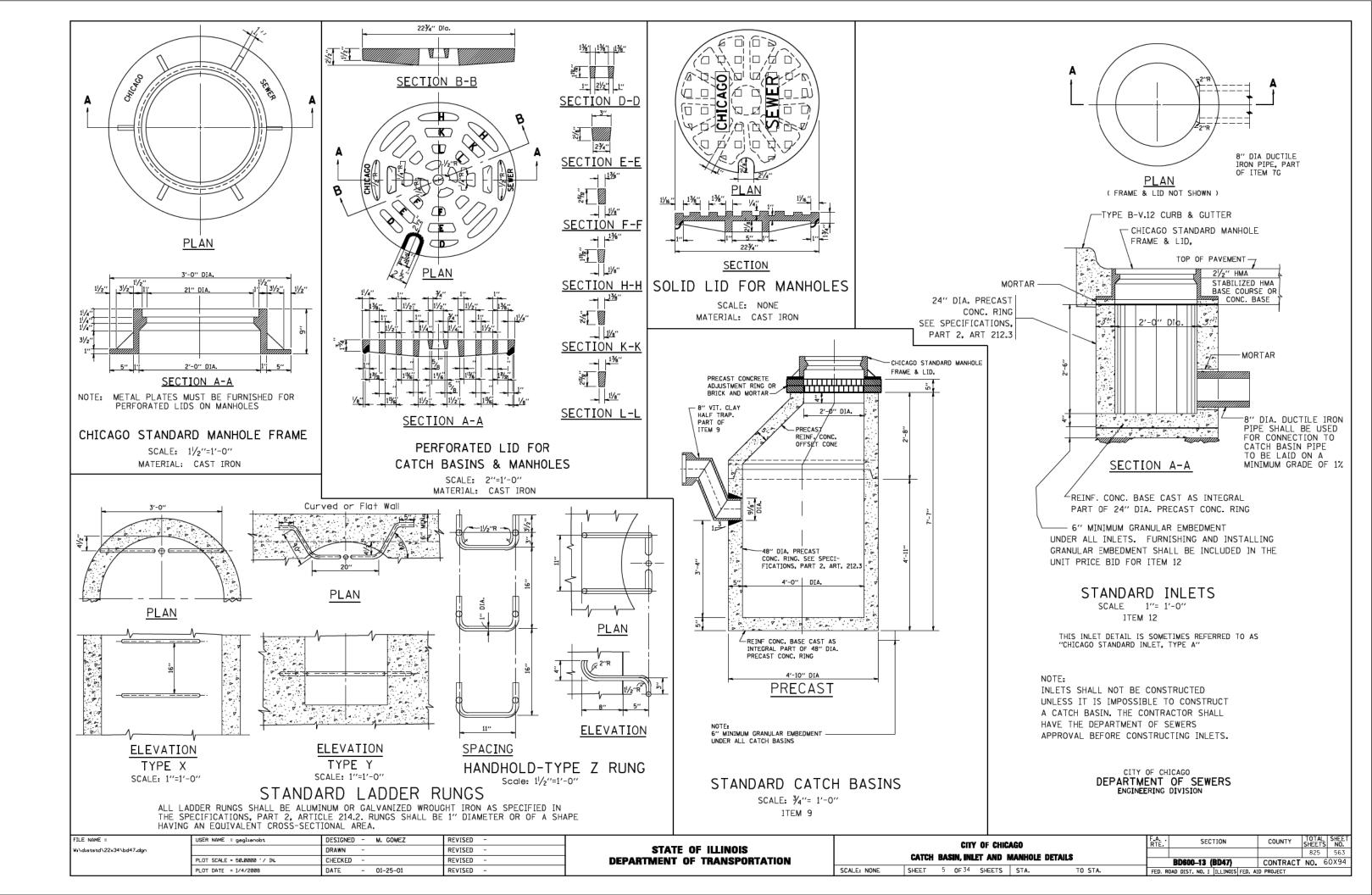
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

> ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



NOTES :

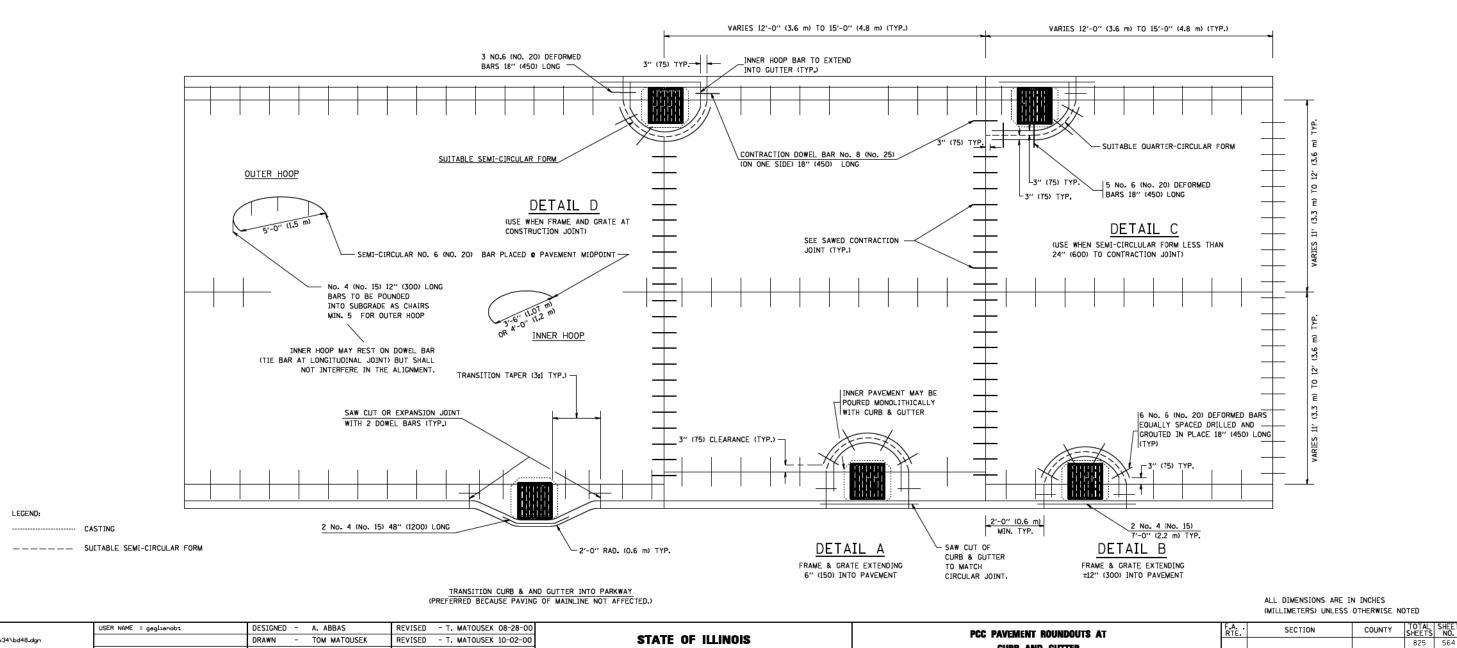
- THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, 1.
- TO EDGE OF PAVEMENT.
- 4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
- FRAMES FILLED WITH NON SHRINK GROUT.
- 7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
- 8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
- 9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'−0" (1₌2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0'' (1.2 m)	4'-6'' (1.4 m)	5'-0'' (1.5 m)

DESIGNER NOTE:

LESS THAN 24"

THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS



FILE NAME =	USER NAME = gaglianobt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00			PCC PAVEMENT ROUNDO	MITE
Wi\diststd\22x34\bd48.dgn		DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00	STATE OF ILLINOIS			
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02	DEPARTMENT OF TRANSPORTATION		CURB AND GUTTE	TER
	PLOT DATE = 1/4/2008	DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02		SCALE: NONE	SHEET 6 OF 34 SHEETS S	STA.

BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.

2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT

3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.

5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIWUM 2" (50) CLEARANCE.

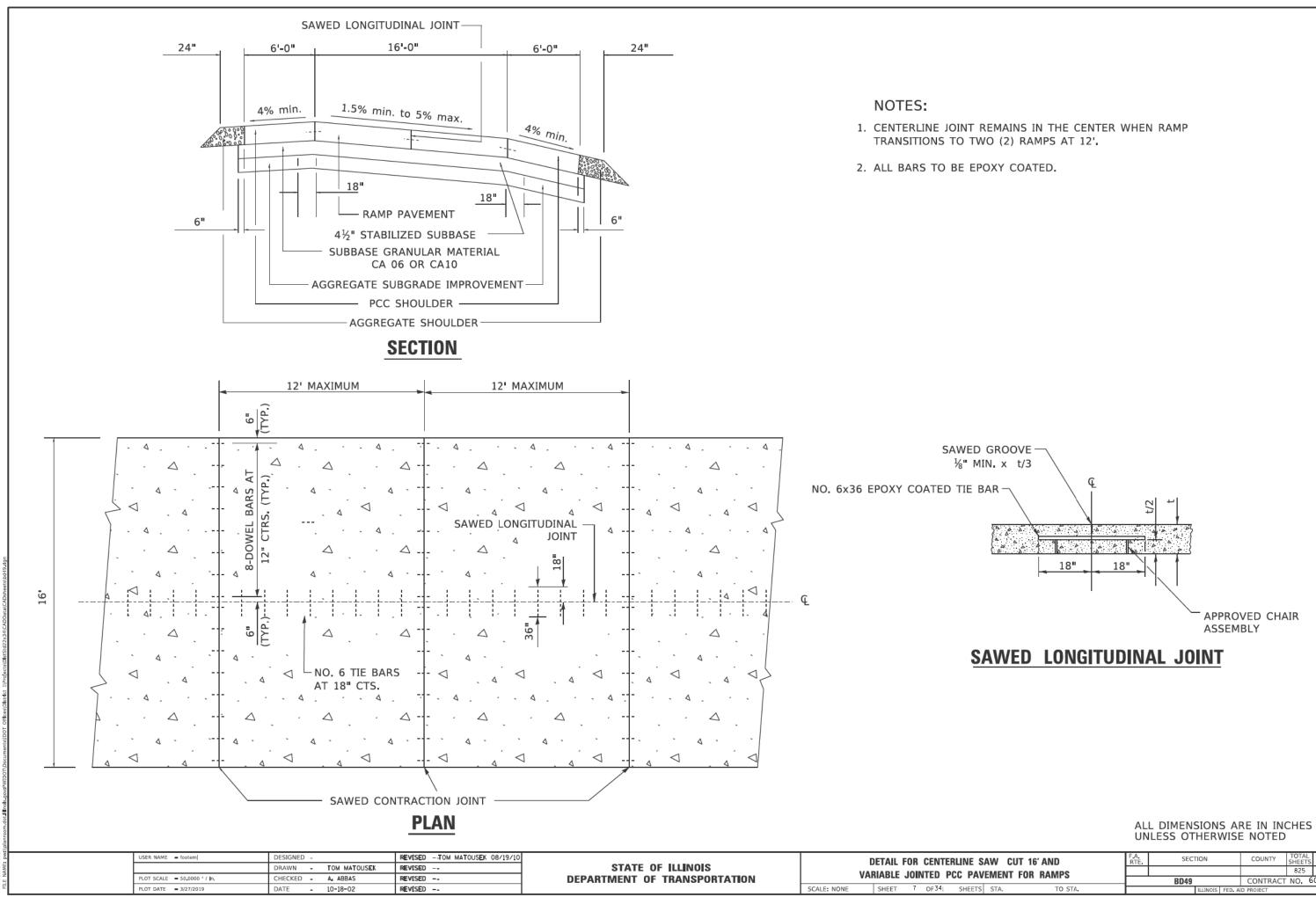
BD-48

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

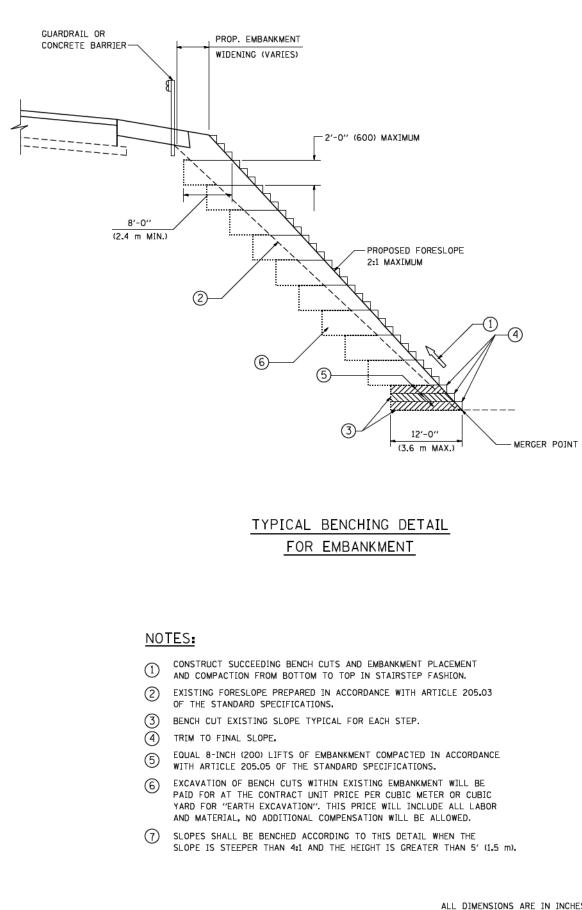
TO STA.

CONTRACT NO. 60X94

6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE

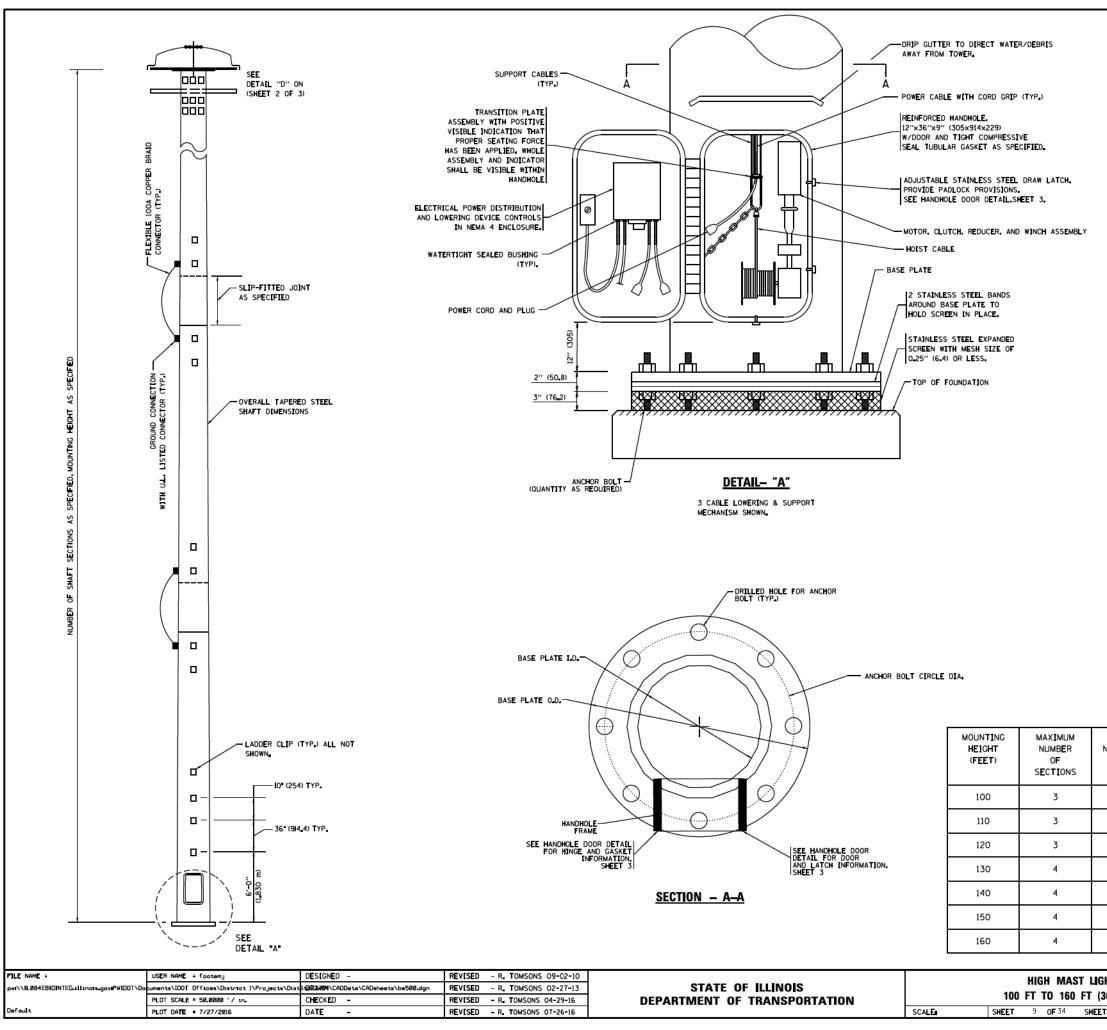


SAW CUT 16' AND Avement for Ramps		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
						825	565
RVENT FOR HAWLS		BD49			CONTRACT	NO. 6	0X94
TS STA. TO STA.	ILLINOIS FED. A				D PROJECT		



FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -			BENCHING DETAIL		F.A.	SECTION	COUNTY TOTAL SHEET
Wı\dıststd\22x34\bd51.dgn		DRAWN - CADD	REVISED -	STATE OF ILLINOIS						825 566
	PLOT SCALE = 50.0000 '/ IN.	CHECKED - S.E.B.	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR EMBANKMENT WIDENING			BD51	CONTRACT NO. 60X94	
	PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -		SCALE: NONE	SHEET 8 OF 34 SHEETS STA.	TO STA.	FED. ROAD D	IST. NO. 1 ILLINOIS FE	AID PROJECT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



NOTES:

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5,6,6,1 SHALL NOT APPLY. LICHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY [.

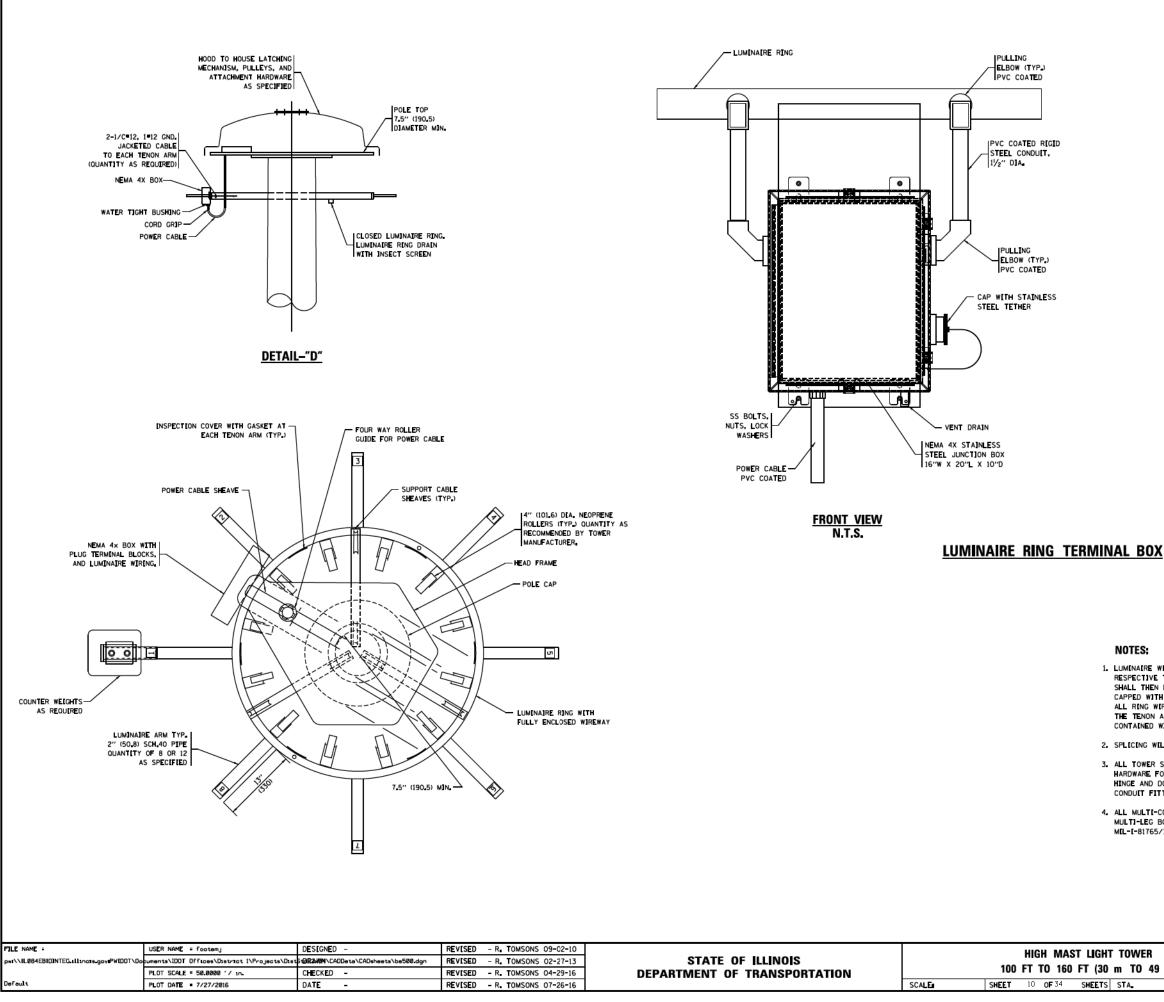
A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SO FT (2.23 SO M) AND 10 SO FT (0.33 SO.) RESPECTIVELY.

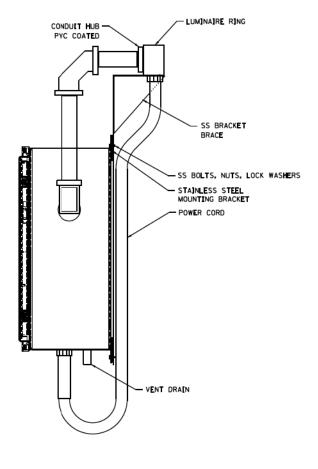
- 3. ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
- 4. THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
- 5. THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
- 6. A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
- 7. ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PYC COATED GALVANIZED STEEL.
- 8. THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
- 10. THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED $\frac{1}{8}$ IN. JN 3 FT (2 mm [N 1 m) WITHIN ANY 5 FT (1.5 m) OF HEICHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 JN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
- 11. PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
- 12. COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

MINIMUM TOWER TOP DIAMETER (]NCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MIN]MUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD CIRCLE (INCHES)
7.5	24	1.5	30
7.5	24	1.5	30
7.5	26	1.75	36
7.5	28	1.75	36
7.5	28	1.75	36
7.5	30	2.25	38
7.5	32	2.25	38
	TOP DIAMETER (INCHES) 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	TOP DIAMETER (INCHES) BOTTOM DIAMETER (INCHES) 7.5 24 7.5 24 7.5 26 7.5 28 7.5 28 7.5 30	TOP DIAMETER (INCHES) BOTTOM DIAMETER (INCHES) ROD DIAMETER (INCHES) 7.5 24 1.5 7.5 24 1.5 7.5 26 1.75 7.5 28 1.75 7.5 28 1.75 7.5 30 2.25

LIGHT TOWER DIMENSIONS

HT TOWER 30 m TO 49 m)		R TE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO	
					825	567	
,				BE-500	CONTRACT	NO. 6	0X94
rs	STA_	TO STA.		ILLINOIS FED. A	D PROJECT		



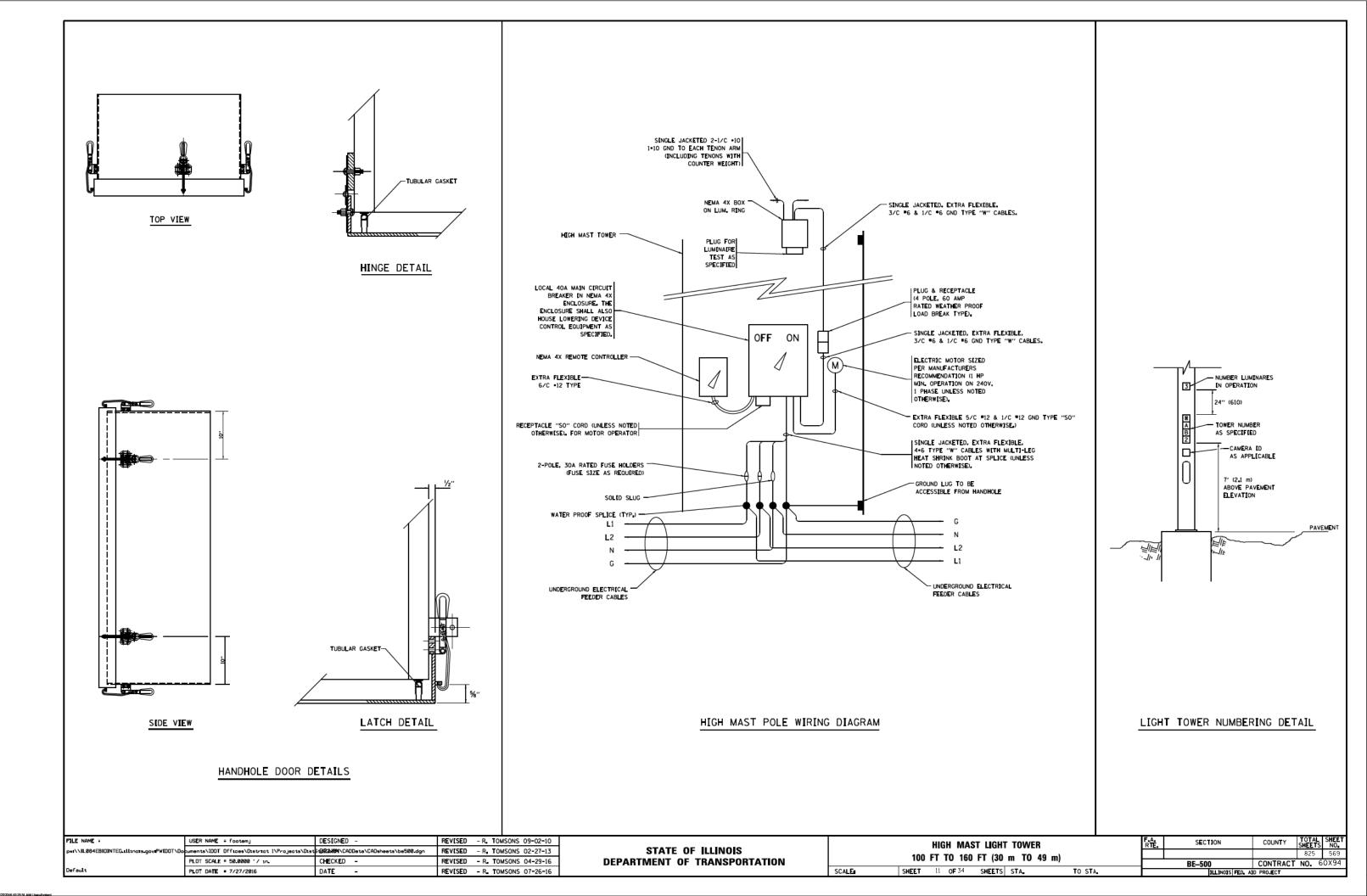


<u>SIDE VIEW</u> N.T.S.

NOTES:

- 1. LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- 2. SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- 3. ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP. SHALL BE STAINLESS STEEL. ALL CONDUCT AND CONDULT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- 4. ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-1-81765/1.

iH1	TOWER		F.A. RTE	SECTION	COUNTY	TOTAL Sheets	SHEET NO			
30 m TO 49 m)					825	568				
		•		BE-500	CONTRACT	NO. 6	0X94			
TS	STA_	TO STA.		ILLINOIS FED. AID PROJECT						



		SHAFT LENGTH (D)	TABLE				
AVERAGE STRENGTH LIGHT TOWER MOUNTING HEIGHT							
SOIL CONSISTENCY		Qu I n tsf (Qu I n kPa)	120 FT. (37 m)	130 FT_ (40 m)	140 FT. (43 m)		
	SOFT	<0_5 (<50)	25'-0'' (7.6 m)	26'-6'' (8.0 m)	27'-6'' (8.3 m)		
	MEDIUM	0_5 TO 1 (50 to 100)	20'-6'' (6.2 m)	21'-6'' (6.4 m)	22'-0'' (6.7 m)		
OHESIVE	STIFF	1 TO 2 (100 TO 200)	17'-6'' (5_2 m)	18'-0'' (5_4 m)	18'-6'' (5_5 m)		
	VERY STIFF	2 TO 4 (200 TO 400)	15′−0″ (4∎5 m)	15'-6'' (4_6 m)	16'-0'' (4_7 m)		
	HARD	>4 (>400)	13'-6'' (4.0 m)	13'-6'' (4_1 m)	14'-0'' (4_2 m)		
		N in BLOWS/FT. (N in BLOWS/0.3m)					
	VERY LOOSE	<5 (<5)	19'-0'' (6.3 m)	20'-0'' (6_0 m)	20'-6'' (6_2 m)		
	LOOSE	5 TO 10 (5 TO 10)	17'-6'' (5.7 m)	18'-0'' (5.5 m)	18'-6'' (5_6_m)		
GRANULAR	MEDIUM	10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0'' (5_2 m)	17'-6'' (5_3 m)		
	DENSE	25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6'' (4_9 m)	16'-6'' (5_0 m)		
	VERY DENSE	>50	15'-0" (4-5 m)	15'-6"	16'-0'' (4.8 m)		

5" (125)

TT

SECTION-B-B

(4.7 m)

1¾ DIA. (MIN.) X 7'-9" (2.3622 m) L

4" (101) DIA.,

4 RACEWAYS

•4 SPIRAL, 6" (150) PITCH.

3 HOOPS AT TOP & BOTTOM

18-11 VERTICAL BARS

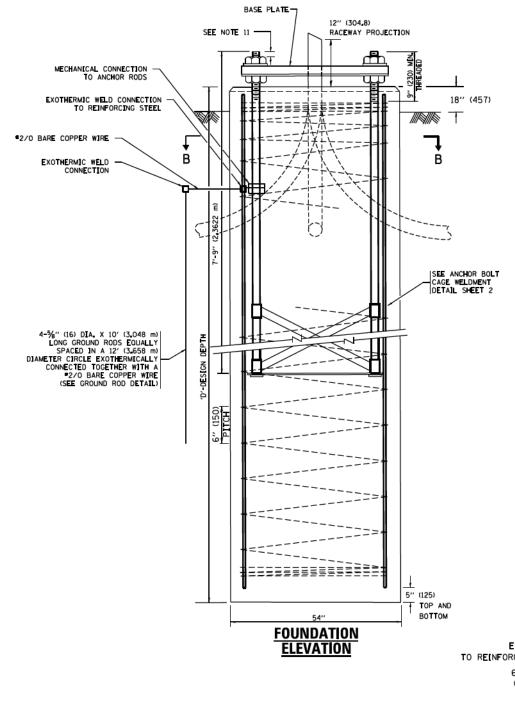
36" (914) RADIUS ELBOW

ANCHOR RODS

8 MIN

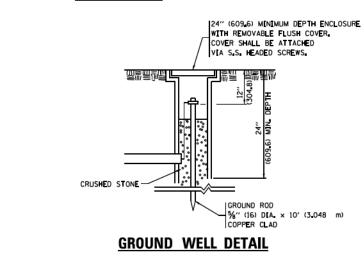
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(4.8 m)



GROUND ROD (TYP)

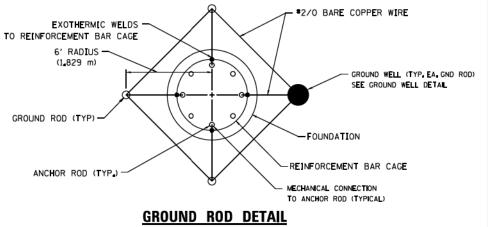
ANCHOR ROD (TYP.)

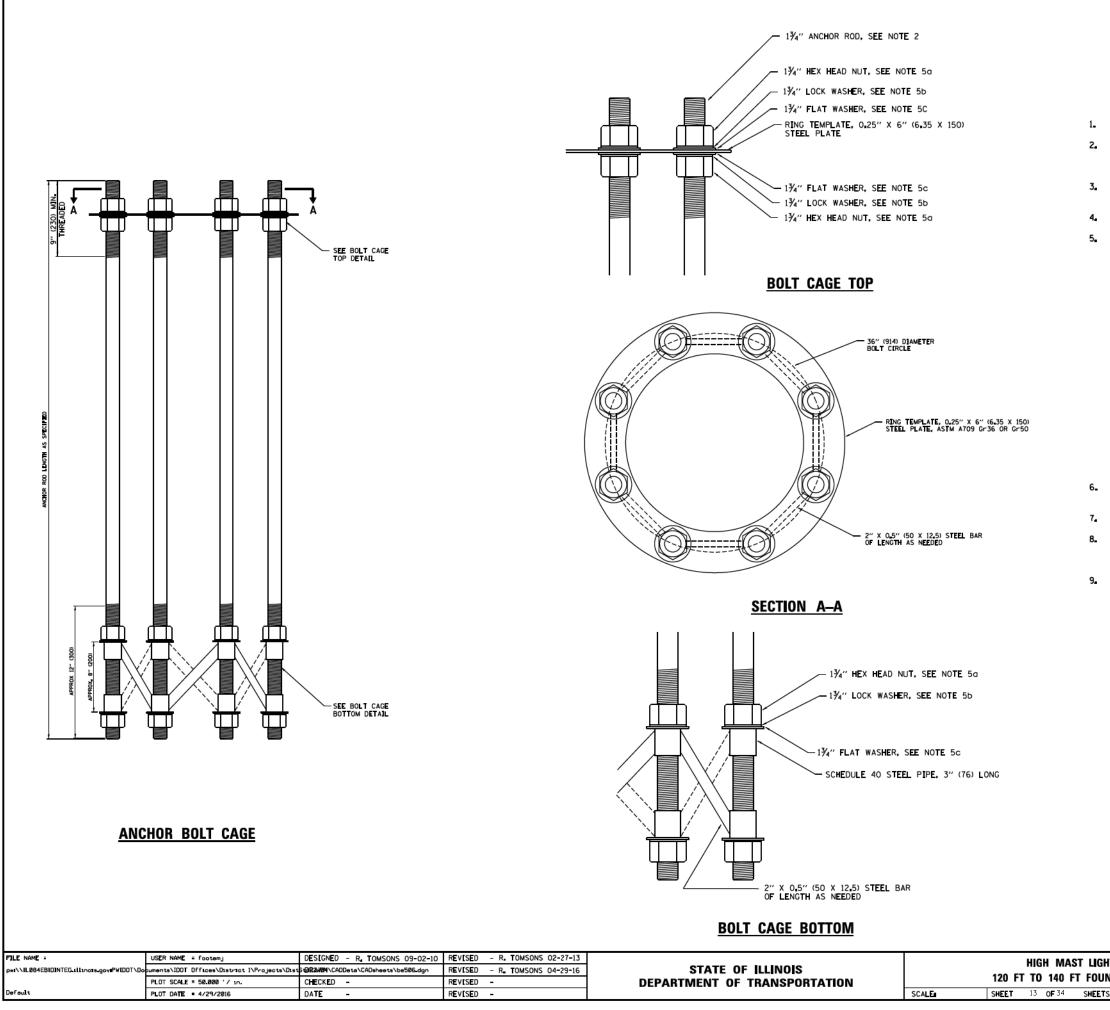


FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10		HIGH MAST LIGHT TOWER		F.A. RTF.	SECTION	COUNTY TOTAL SHEET
pwi//IL084EBIDINTEG-Illinois-gov#PWIDOT/Do	\\IL084EBIDINTEG.ILlinosa.gov#PWIDOT\Documenta\IDOT Officea\District 1\Projecta\Dist 022#WM\CADData\CADbata\CADbata\ba506.dgn		ILInois-gov/PWDDT\Documents\DDT Dffices\District 1\Projects\DistrigutAddMt\CADDets\CADsheets\be586.dgn REVISED - R. TOMSONS 02-27-13 STATE OF ILLINOIS		120 FT TO 140 FT FOUNDATION DETAIL				825 570
	PLOT SCALE = 50.000 ' / 10.	CHECKED -	REVISED - R. TOMSONS 04-29-16	DEPARTMENT OF TRANSPORTATION	120 FI TO 140 FI FOUNDATION DETAIL		_	BE-506	CONTRACT NO. 60X94
Default	PLOT DATE = 4/29/2016	DATE - 03-12-10	REVISED -		SCALE	SHEET 12 OF 34 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT

DESIGN NOTES

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- 2. THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- 3. THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- 4. THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- 5. SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- 6. THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- 7. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554. GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- 8. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- 9. REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- 10. TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- 11. A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IN INSTALLED.
- 12. ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- 13. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- 14. ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER, EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- 15. COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- 16. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.





NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.

ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS

4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED

ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING

- a) 1.5 (38) HEX HEAD NUTS AASHTO M291, GRADE C, C3, D ,DH OR DH3 HOT DIPPED GALVANIZED AASHTO M 232
- b) 1.5 (38) HELICAL LOCK WASHERS ANSI/ASME B18.21.1
 I.D. 1.504 - 1.524
 O.D. 2.159 MAX.
 WIDTH 0.292 MIN.
 THICKNESS 0.375 MIN.
 HARDNESS 26-45 ROCKWELL C
 HOT DIPED GALVANIZED AASHTO M232
- c) 1.5 (38) FLAT WASHERS AASHTO M293 O.D. 2.75 I.D. 1.56 THICKNESS O.16 - O.25 HARDNESS 26-45 ROCKWELL C. HOT DIPED GALVANIZED AASHTO M232

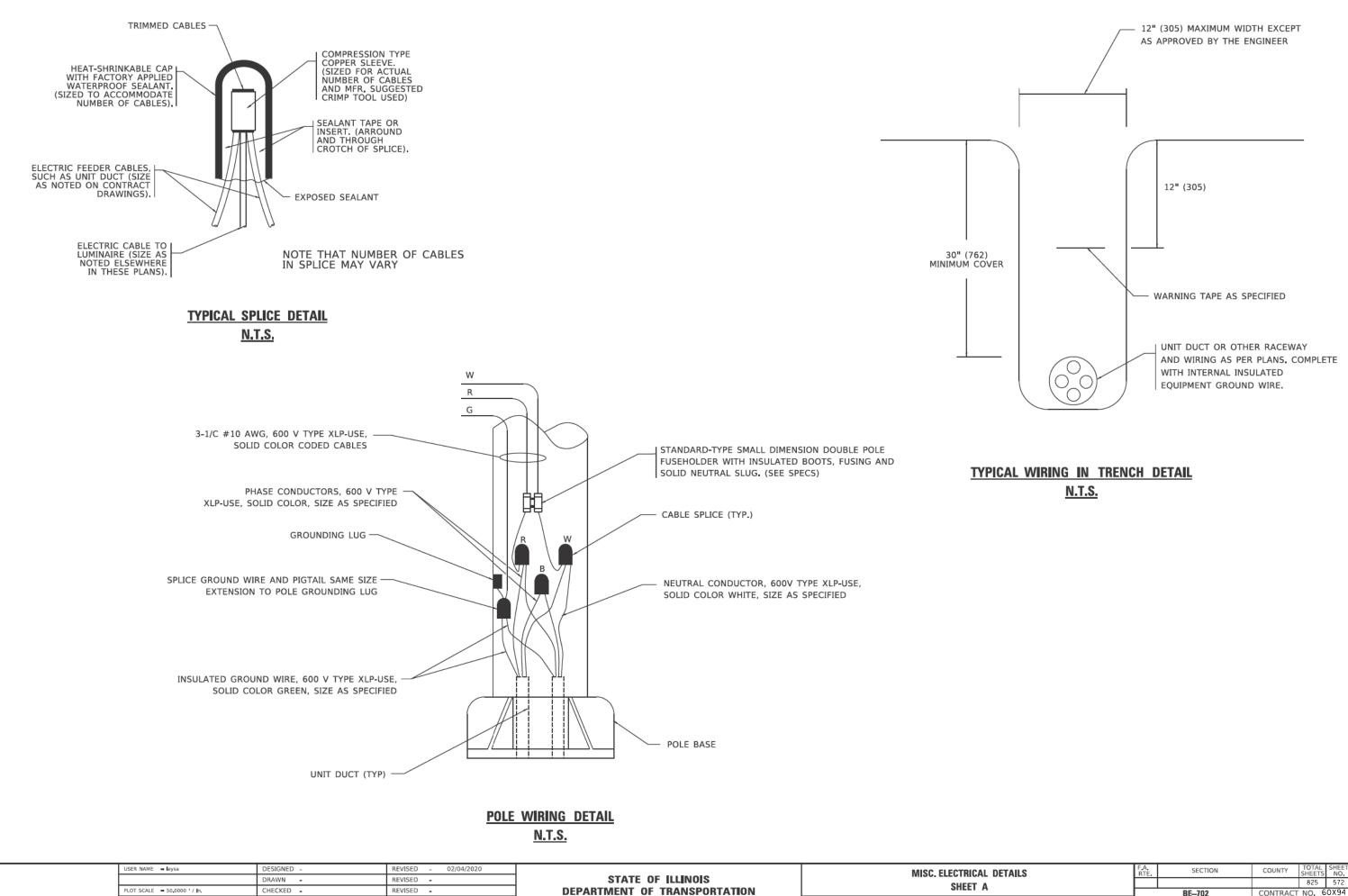
THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.

7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.

THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

HT TOWER NDATION DETAIL		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO			
					825	571			
			BE-506	CONTRACT	NO. 6	0X94			
S STA	TO STA.		ILLINOIS FED. AID PROJECT						



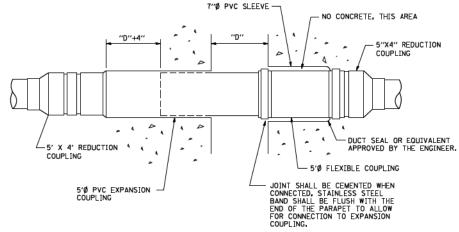
- 08/08/2003

REVISED -

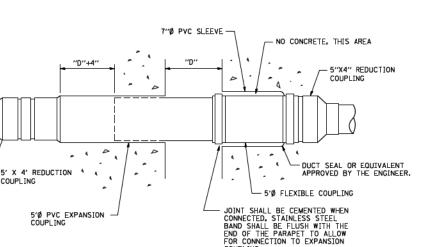
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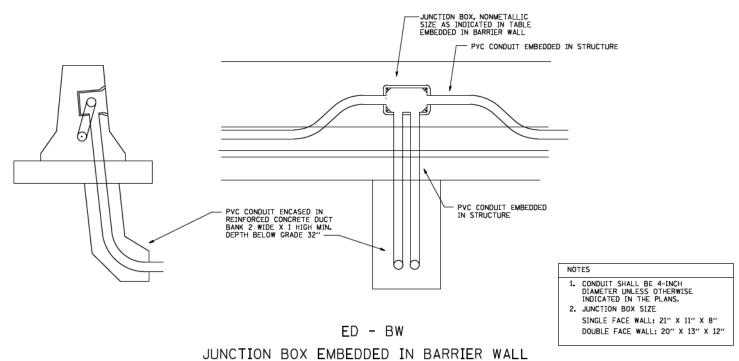
AL DETAILS A		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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			BE702	CONTRACT	ΓNO. Θ	0X94	
TS	STA.	TO STA.		ILLINOIS FEE	AID PROJECT		

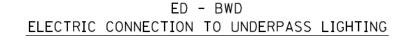
FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -			MISCEL	LANEOL	US EI	ECTRIC/	AL DE	TAILS, SHEE	TB	F.A.	SECTION	COUNTY	TOTAL SH
be703.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	J BOX EMBED	DED IN B	BARRIER	R WA	LL – IN	ISTALI	LATION OF	CONDUIT IN BRIDGE				825 5
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	PARAPET EXPA	nsion jo	Dint –	ELEC	TRIC CO	ONNEC	CTION TO U	INDERPASS LIGHTING		BE-703	CONTRA	CT NO. 60X
	PLOT DATE = 2/5/2009	DATE - 01-20-2009	REVISED -		SCALE: NONE	SHEET	15 0	OF 34	SHEETS	5 S	ΤА.	TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS F	ED AID PROJECT	

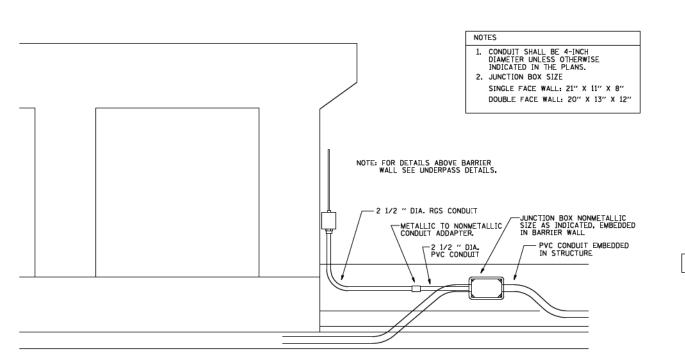


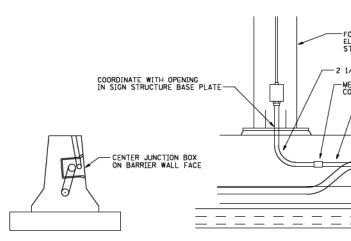
INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT (N.T.S.)





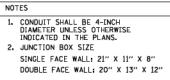




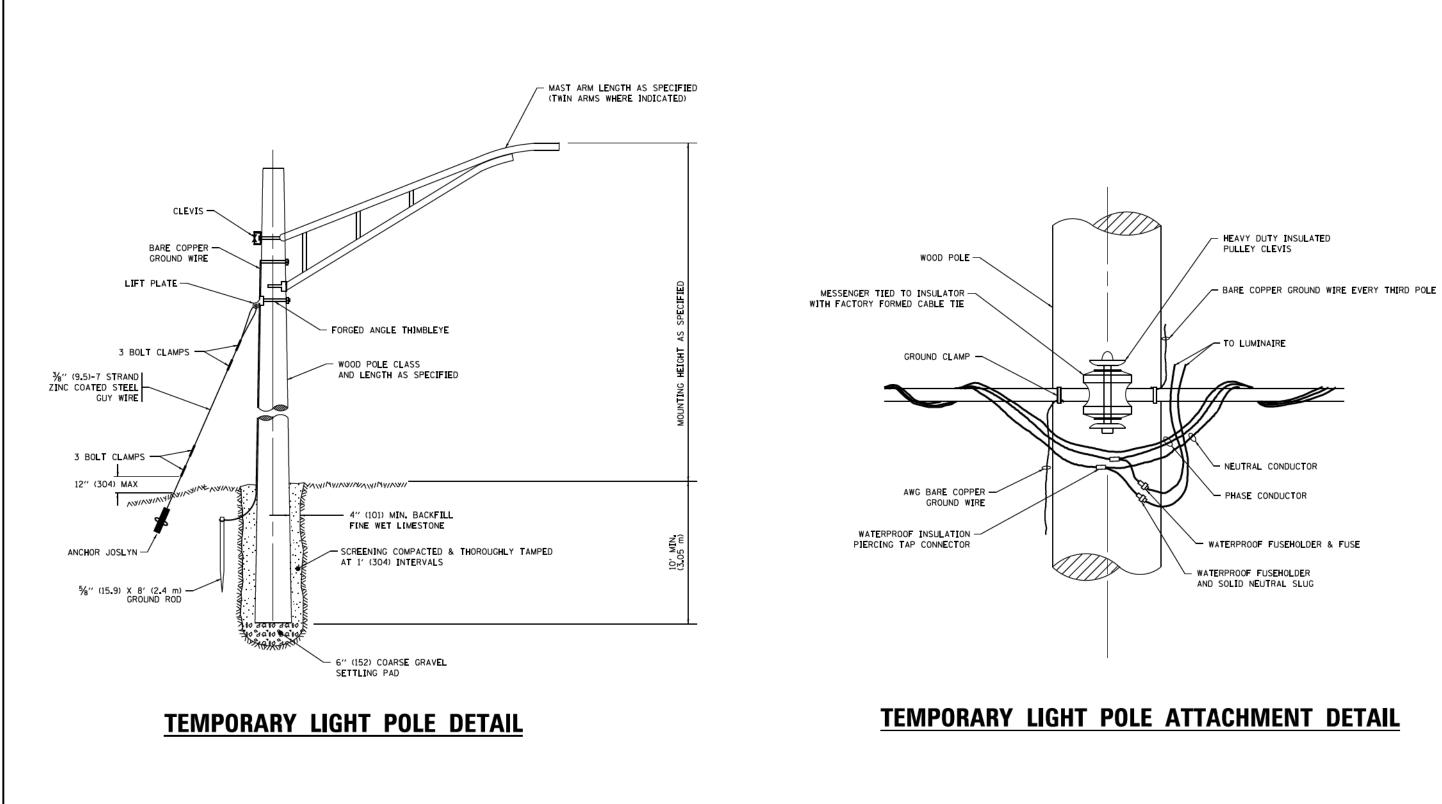


ED - SGN

-FOR DETAILS ON SIGN SEE ELECTRICAL CONNECTION TO SIGN STRUCTURE DETAIL 2 1/2 " DIA. RGS CONDUIT -METALLIC TO NONMETALLIC CONDUIT ADDAPTER. -JUNCTION BOX, NONMETALLIC SIZE AS INDICATED, EMBEDDED IN BARRIER WALL PVC CONDUIT - PVC CONDUIT EMBEDDED IN STRUCTURE_ NOTES _____



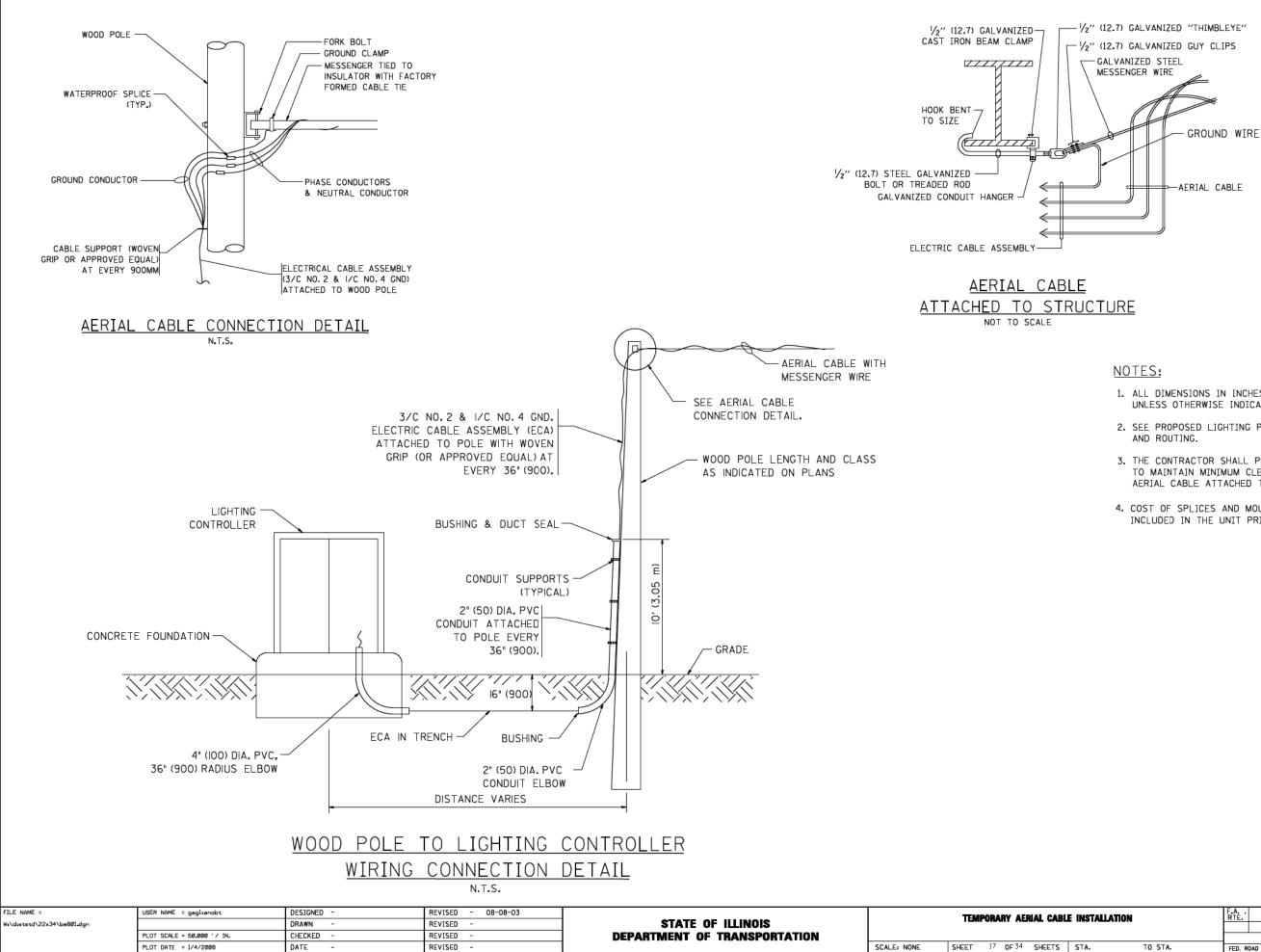
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING



NOTE:

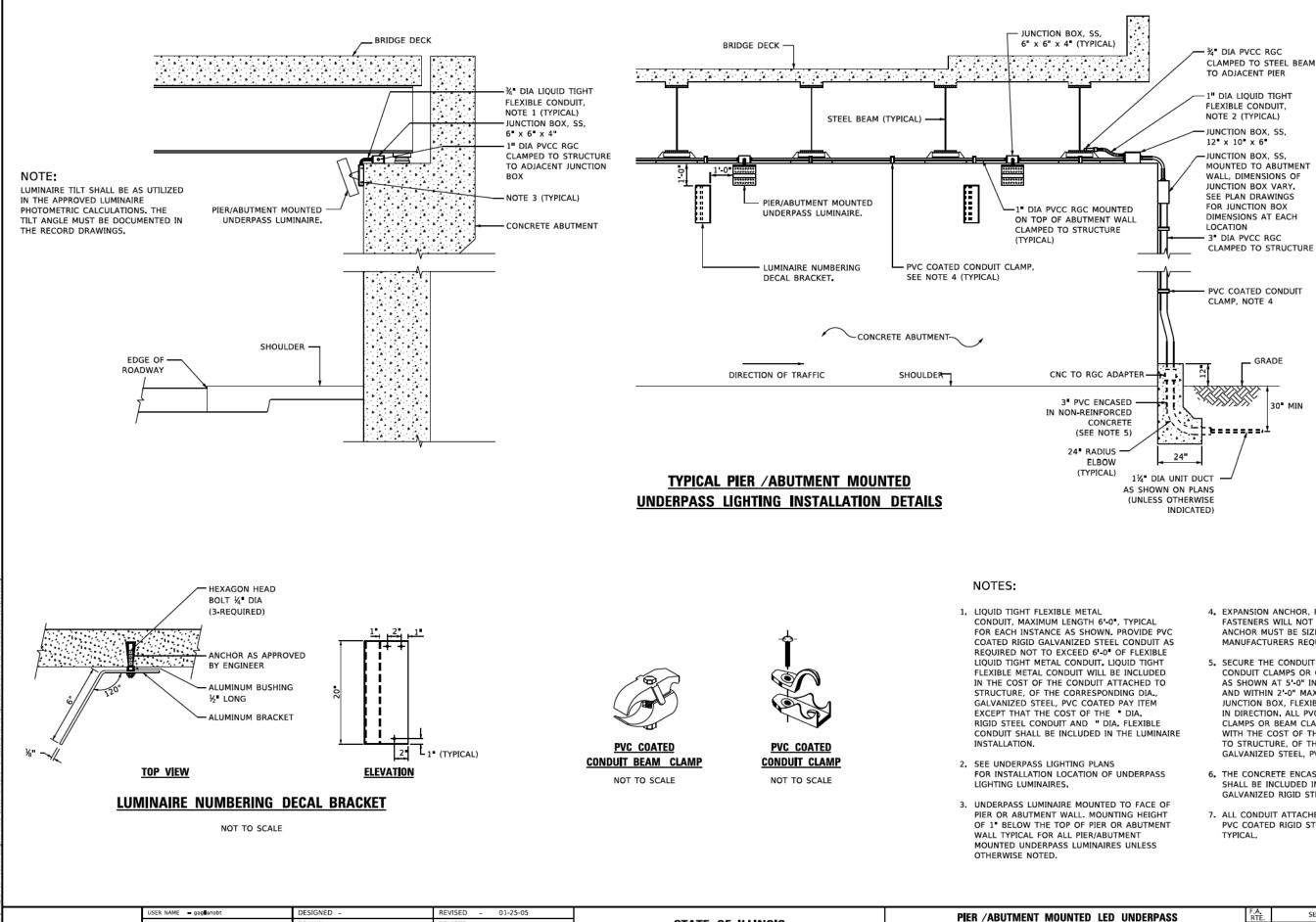
- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

	FILE NAME =	USER NAME = footemj	DESIGNED -	REV[SED - 08-08-03		TEMPORARY LIGHT POLE DETAILS	F.A. RTE	SECTION	COUNTY TOTAL SHEET
	pwi\\IL084EBIDINTEG.Illinois-gov#PWIDOT\Do		-	REVISED - R.T. 07-26-16	STATE OF ILLINOIS				825 574
			CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			BE-800	CONTRACT NO. 60X94
_ I	Default	PLOT DATE = 9/1/2016	DATE -	REVISED -		SCALE NONE SHEET 16 OF 34 SHEETS STA. TO STA.		JLLINOIS FED.	AID PROJECT



- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

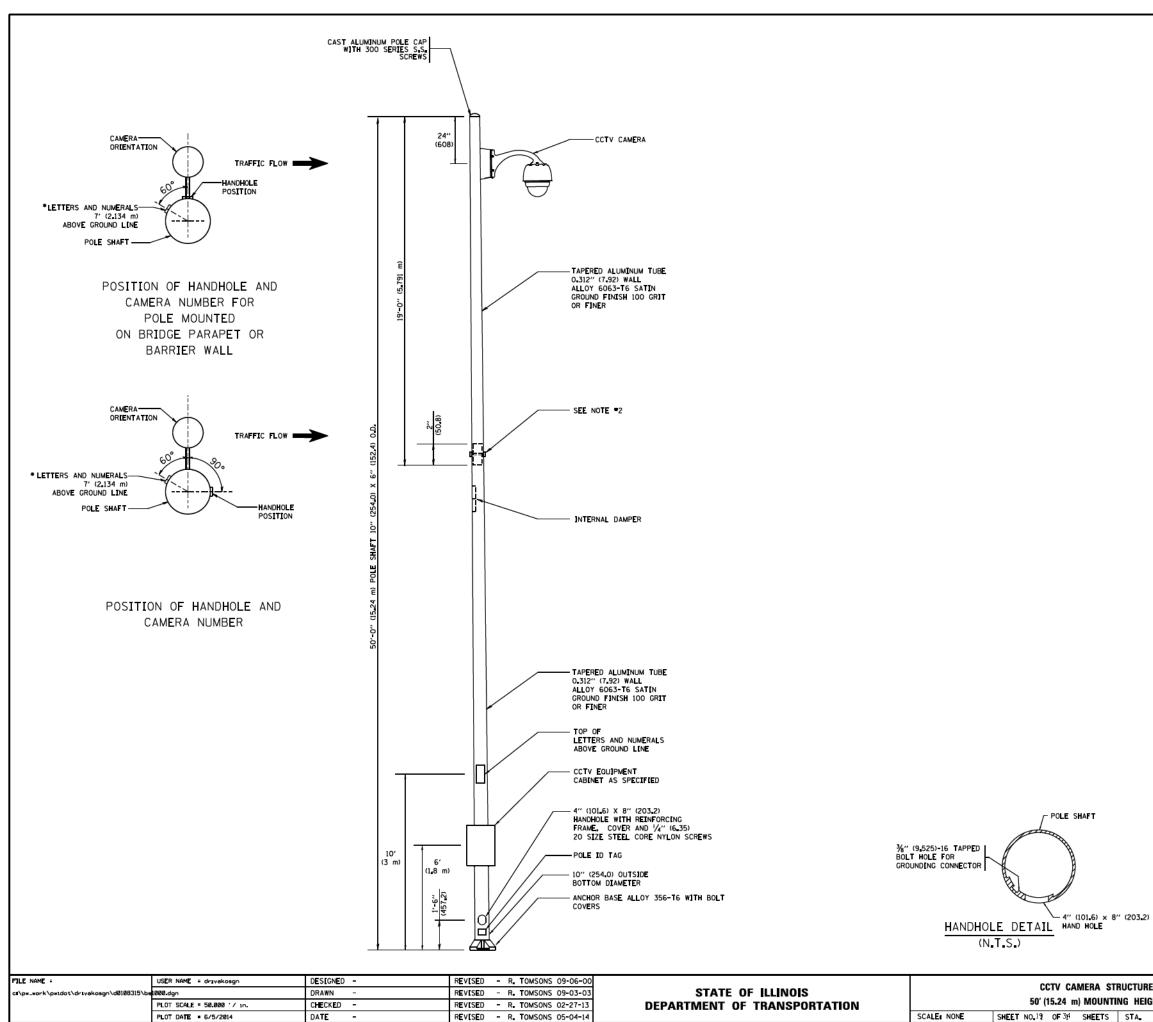
BLE INSTALLATION		F.A. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
								825	575
_				BE-801			CONTRACT	NO. 6	60X94
	S⊤A.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS F	ED. AI	D PROJECT		



DRAWN -REVISED -STATE OF ILLINOIS LUMINARE INSTALLA CHECKED -REVISED -**DEPARTMENT OF TRANSPORTATION** LOT SCALE = 100,0000 ' / n. SHEET 18 OF34 SHEET LOT DATE = 1/15/2020 DATE REVISED SCALE: NONE

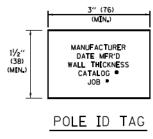
- 4. EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION, ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM.
- 6. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
- 7. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC)

ED LED UNDERPASS		F.A. RTE	SEC	IION	COUNTY	TOTAL SHEETS	SHEET NO.	
ΛТ	ION DETA	119					825	576
ATION DETAILS				BE-903		CONTRACT	NO. 6	0X94
тs	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		

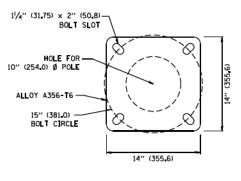


NOTES

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
- 3. THE POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- 4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- 5. POLES WILL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.
- 6. POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.



NTS





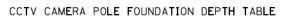
STRUCTURE		F.A. RTE	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO	
т	NG HEIGHT						825	577
ITING HEIGHT			BE-100	0	CONTRACT	NO. 6	0X94	
	STA_	TO STA.	FED. RO	DAD DIST. NO. 1	ILLINOIS FED. AI	D PROJECT		



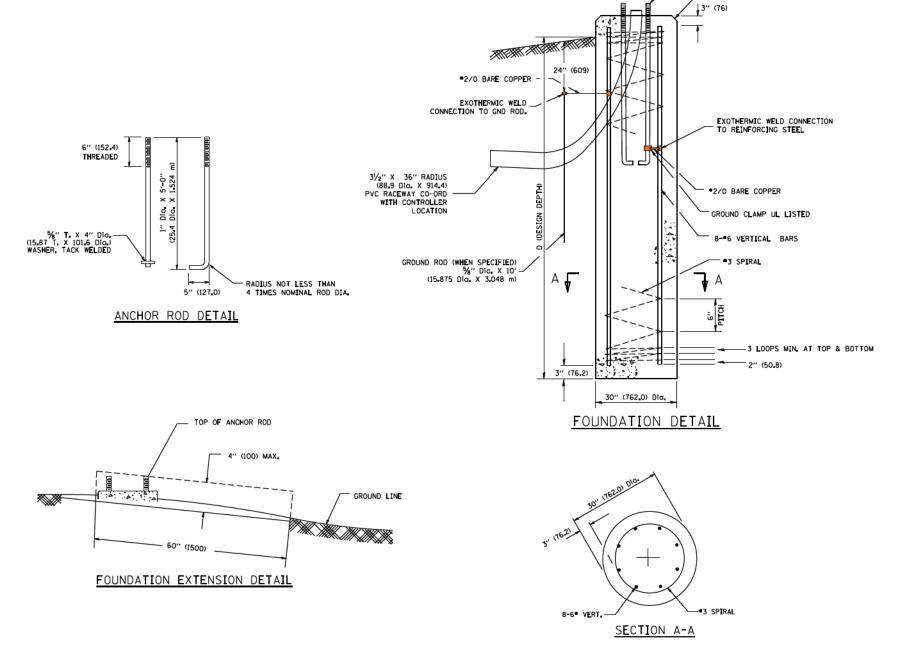
- 2.

- 7.
- 9.

- ALTERNATE LOCATION OF POLE IF DITCH LINE IS LESS THAN 30 FT.



SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY Qu = 0.375 TON/SO. FT.	13'-0" (3.96 m)
MEDIUM CLAY Qu = 0.75 TON/SO.FT	9'-6" (2.09 m)
STIFF CLAY Qu = 1.50 TON/SO. FT.	7'-0" (2 . 13 m)
LOOSE SAND Ø = 34°	9'-0'' (2.74 m)
MEDIUM SAND Ø = 37.5°	8'-3'' (2.52 m)
DENSE SAND Ø = 40°	7'-9'' (2 . 36 m)



stant here

TOP VIEW

RACEWAYS PARALLEL TO EDGE OF PAVEMENT

CENTER RACEWAYS

FOUNDATIO

ANCHOR ROD 4-1" Dio. X 5'-0"

(4 25 4 Dia X 1 524 m)

¾″ (19) CHAMFER

FILE NAME =	USER NAME = footemj	DESIGNED - TOMSONS	REVISED -			CCTV CAMERA STRUCTURE FOUNDATION	F.A.	SECTION	COUNTY TOTAL SHEET
c=\pw_work\pwidot\footemj\d0108315\be100	l.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					825 578
	PLOT SCALE = 50.0001 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	50' (15 — 24m) MOUNTING HEIGHT			BE-1001	CONTRACT NO. 60X94
	PLOT DATE = 4/3/2013	DATE - 03-11-13	REVISED -		SCALE NONE	SHEET NO.20 OF 34 SHEETS STA. TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.

3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.

4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION, IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.

5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 34-IN. (20 mm).

THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.

THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.

8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.

ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DJPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.

10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.

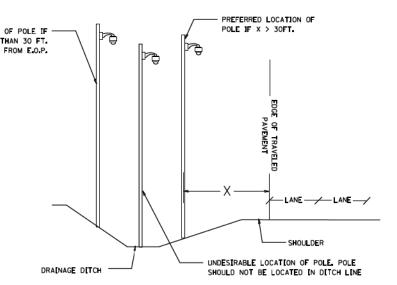
11. ANCHOR RODS SHALL PROJECT 23/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.

12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 THES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.

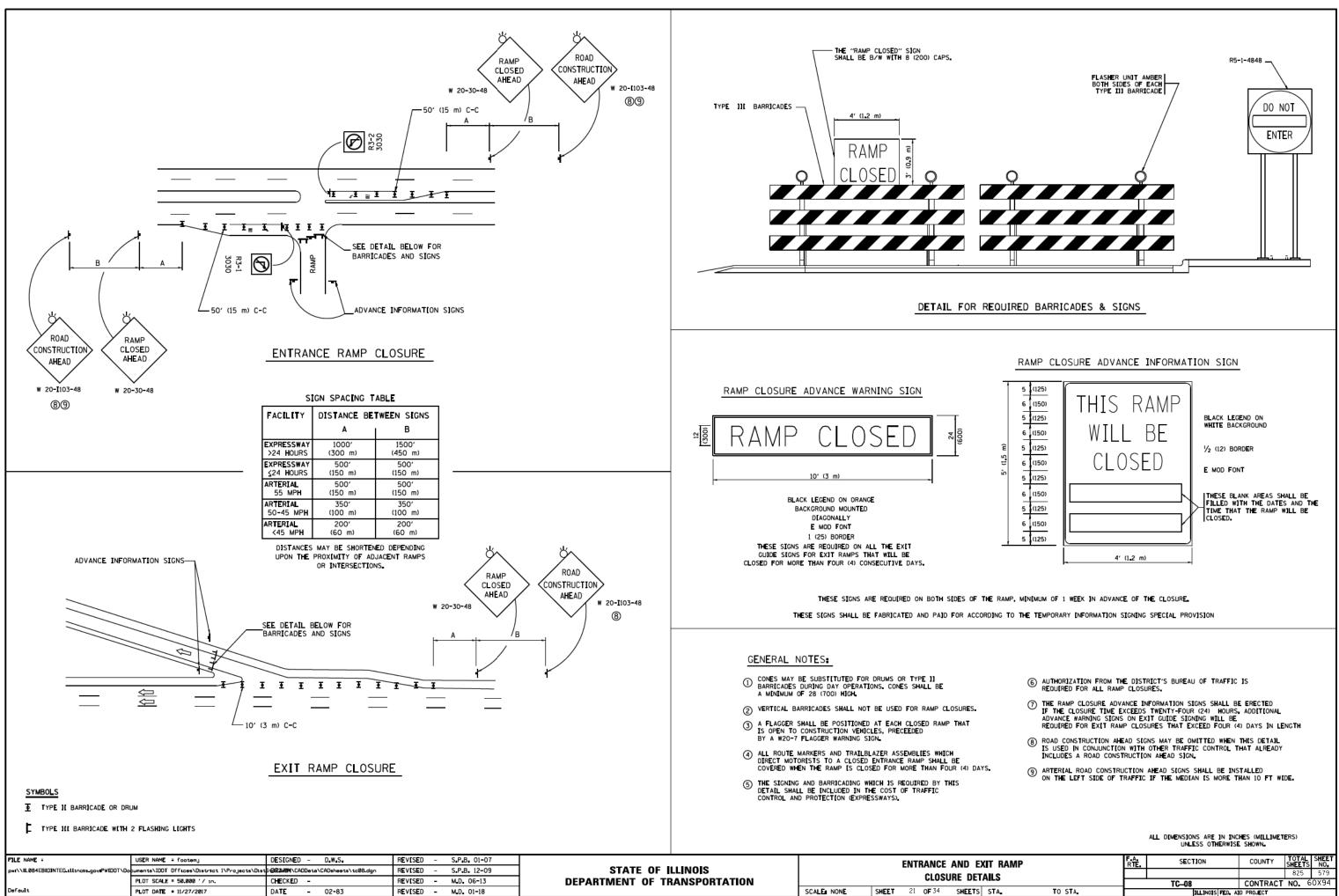
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.

14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

15. ANCHOR ROD BOLT CIRCLE TO BE COORDINATED WITH CAMERA STRUCTURE

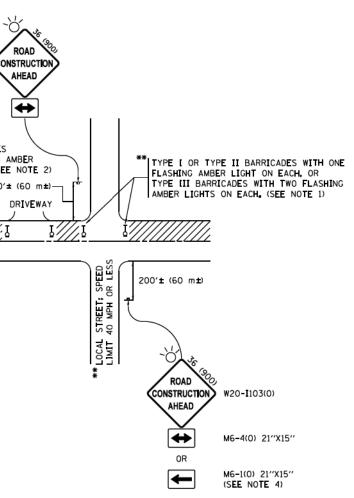


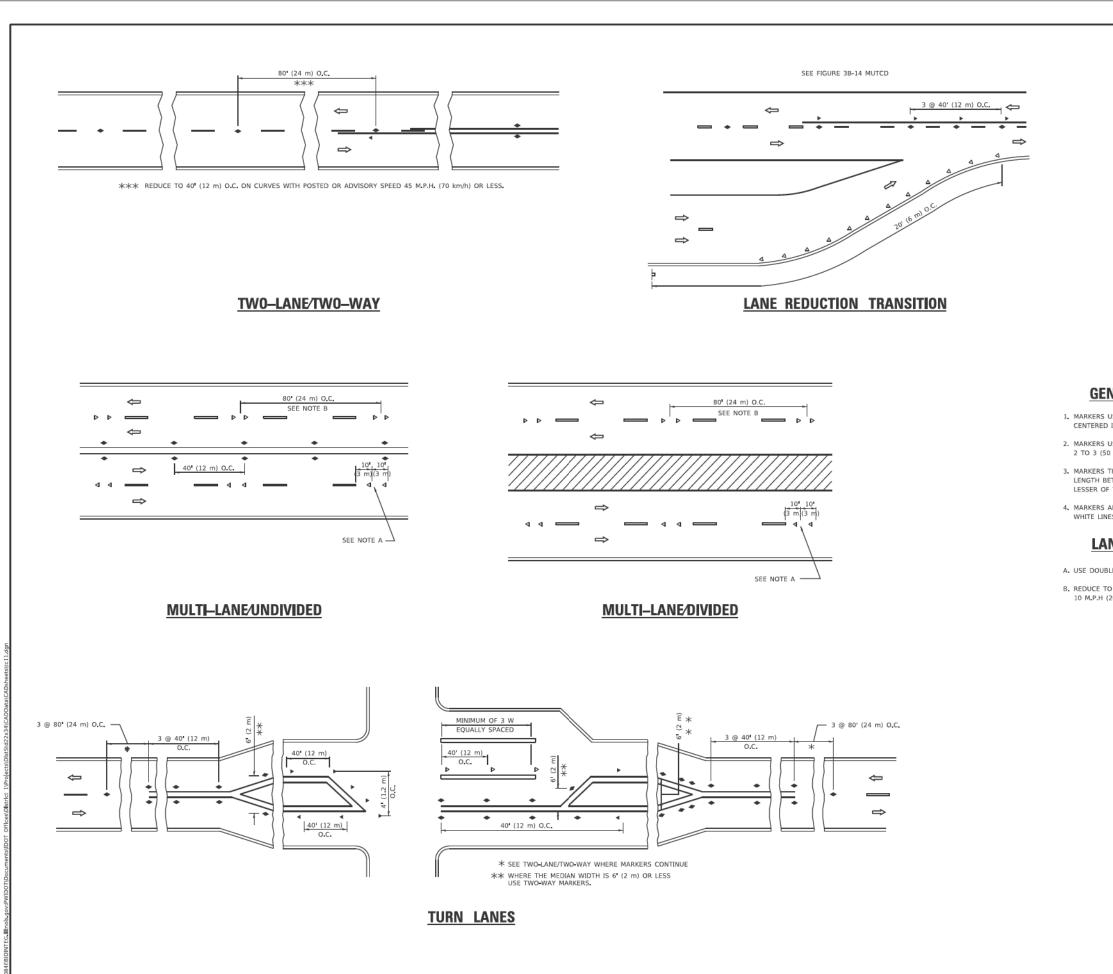
CAMERA POLE PLACEMENT



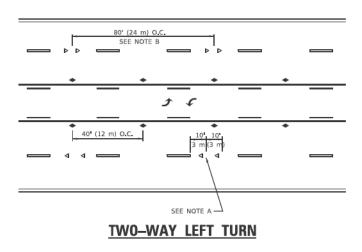
		ROAD (NONSTRUCTION AHEAD WITH TWO FLASHING AMBER LIGHTS ON EACH, (SEE NOTE 2) 200'± (60 m±) DRIVEWAY WORK AREA' I J WORK AREA' I CONSTRUCTION AHEAD WORK AREA' I CONSTRUCTION AHEAD WORK AREA' I CONSTRUCTION AHEAD WORK AREA' I CONSTRUCTION AHEAD	WITH ONE ACH, OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE II BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH, (SEE NOTE 1)
	SHOWN ON THE DRAWING . a) ONE "ROAD CONSTR MOUNTED ON IT AP b) THE CLOSED PORTIO BLOCKING WITH TYP THE CROSS SECTION 2. SIDE ROAD WITH A SPEED AS SHOWN ON THE DRAWIN a) ONE "ROAD CONSTR FLASHER MOUNTED - OF THE MAIN ROUTI b) THE CLOSED PORTIO BLOCKING WITH TYP OF THE CLOSED PORTION SPACING DURING DAY OPE IN HEIGHT. 4. WHEN THE SIDE ROAD LIE SIGNING AND THE WORK Z	AND AS DIRECTED BY THE ENGINEER: UCTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER PROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. ON OF THE MAIN ROUTE SHALL BE PROTECTED BY DE I, TYPE II OR TYPE III BARRICADES, 1/3 OF N OF THE CLOSED PORTION. 1 LIMIT GREATER THAN 40 MPH (60 km/h) NG AND AS DIRECTED BY THE ENGINEER: UCTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A ON IT APPROXIMATELY 500' (150 m) IN ADVANCE E. DN OF THE MAIN ROUTE SHALL BE PROTECTED BY DE III BARRICADES, 1/2 OF THE CROSS SECTION	 WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (MG-1 OR MG-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
			All dimensions are in inches (millimeters) unless otherwise shown.
= footemj DESIGNED - LHLA. REVISED - A. HOUSEH 10-15-96 Dfftces\District l\Projects\District GR2MBH\CADDeta\CADshests\tcl8.dgn REVISED - T. RAMMACHER 01-06-00 = 50.000 '/ in. CHECKED - REVISED - A. SCHUETZE 07-01-13 = 9/15/2016 DATE - 06-89 REVISED - A. SCHUETZE 09-15-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWA SCALE# NONE SHEET 22 OF 34 SHEETS STA_	005 500

FILE NAME = pwi//ILØ84EBIDINTEG.illinois-gov#PWEDOT/Do	USER NAME = footemj cuments\IDOT Offices\District 1\Projects\Dist	DES[GNED - L.H.A. SOB2WM(\CADDete\CADsheets\tal0.dgn	REVISED - A, HOUSEH 10-15-96 REVISED -T. RAMMACHER 01-06-00					
	PLOT SCALE = 50.000 ' / 10.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	DEPARTMENT OF TRANSPORTATION	S	DE KUA	DS, INTER	SECT
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A SCHUETZE 09-15-16		SCALE NONE	SHEET	22 of 34	SH





REVISED -T. RAMMACHER 03-12-99 JSER NAME = footem DESIGNED TYPICAL APPLI DRAWN -REVISED -T. RAMMACHER 01-06-00 STATE OF ILLINOIS **RAISED REFLECTIVE PAVEMENT MARK** CHECKED -**DEPARTMENT OF TRANSPORTATION** LOT SCALE = 50,0000 ' / In. REVISED C. JUCIUS 09-09-09 SCALE: NONE SHEET 23 OF 34L SHEET REVISED -LOT DATE = 3/4/2019 DATE C. JUCIUS 07-01-13



GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
- 4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

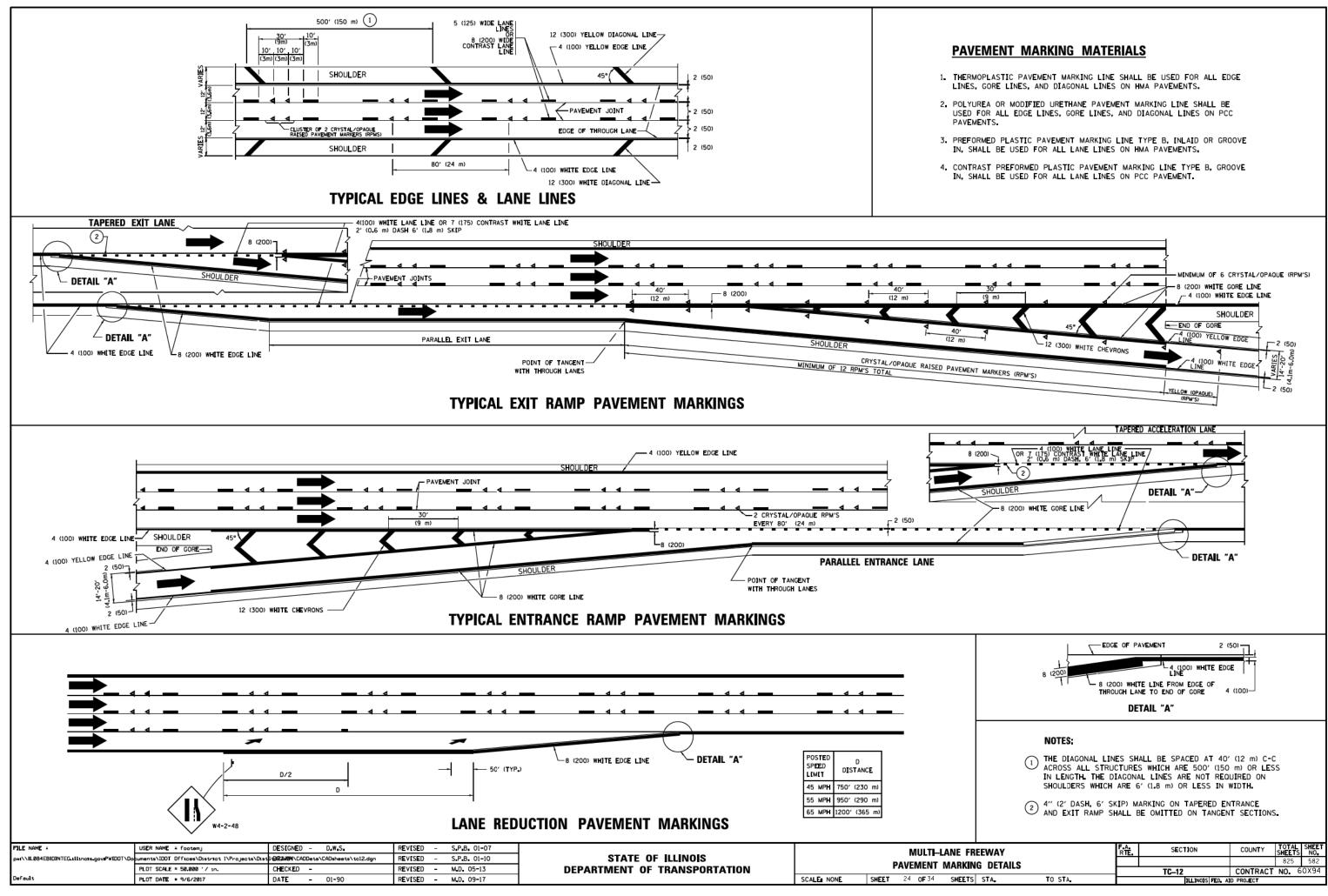
- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

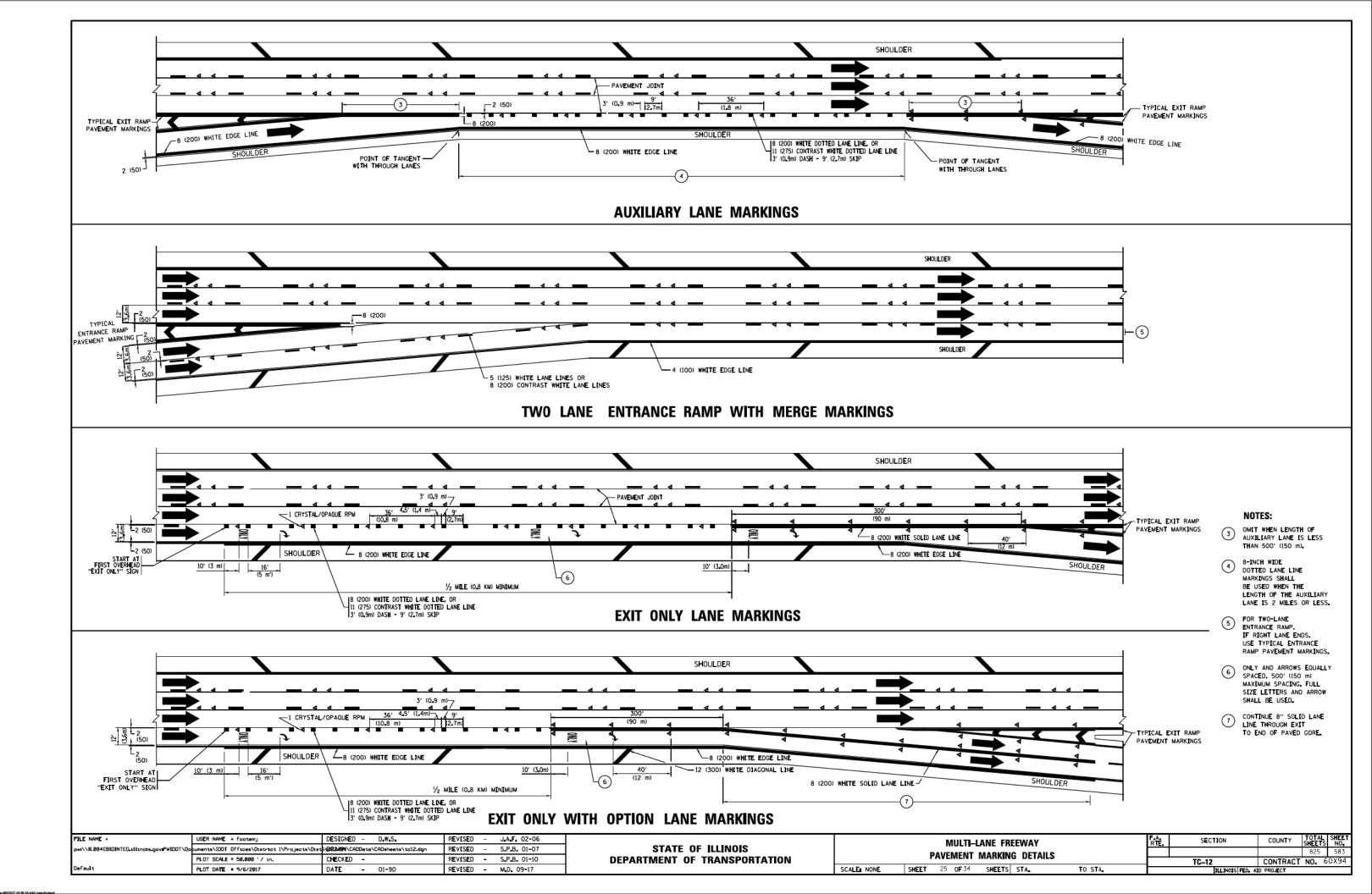
DESIGN NOTES

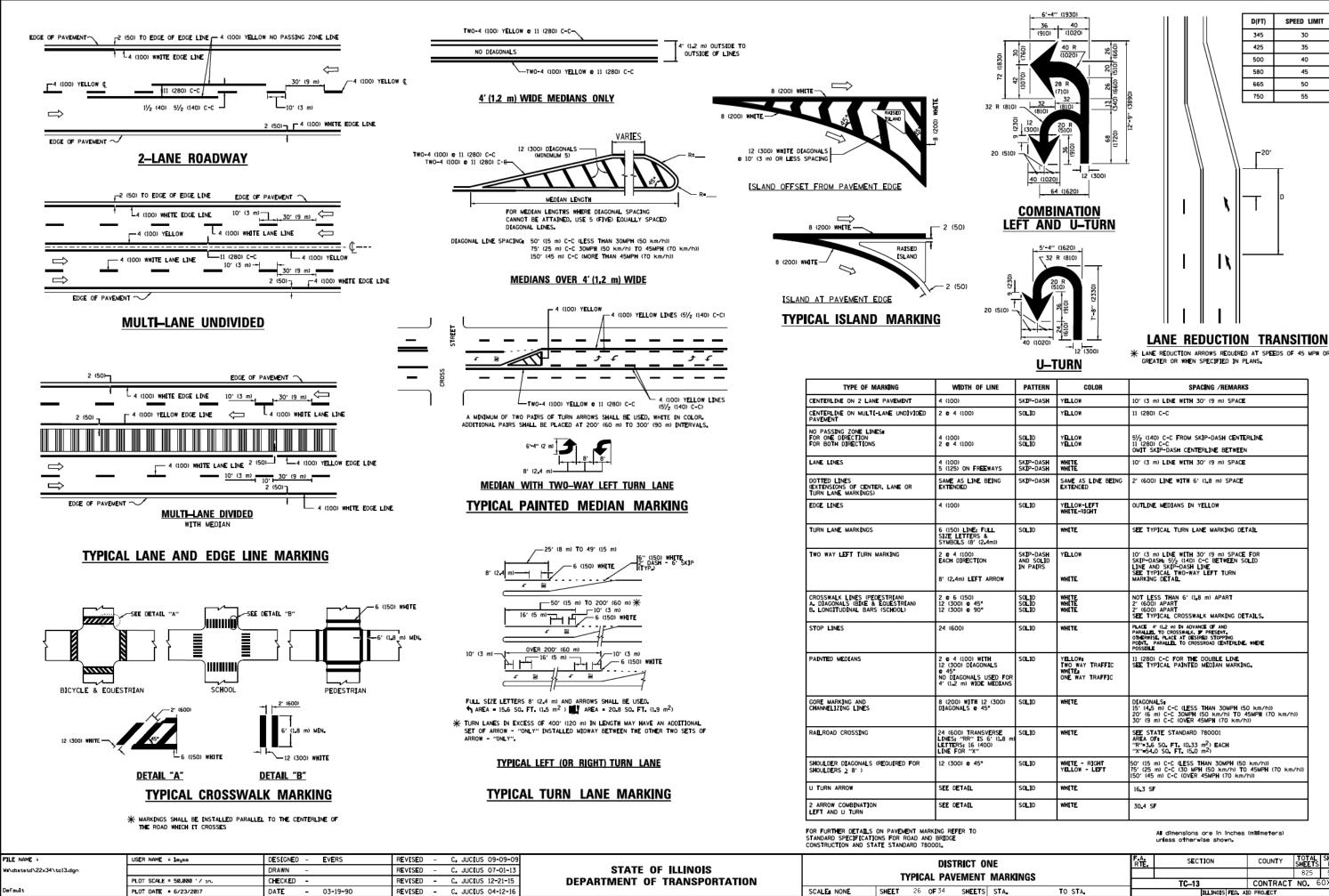
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

All dimensions are in inches (millimeters) unless otherwise shown.

ICATIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
KERS (SNOW-PLOW RESISTANT)				825	581
		TC-11	CONTRACT	NO. 6	0X94
TS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

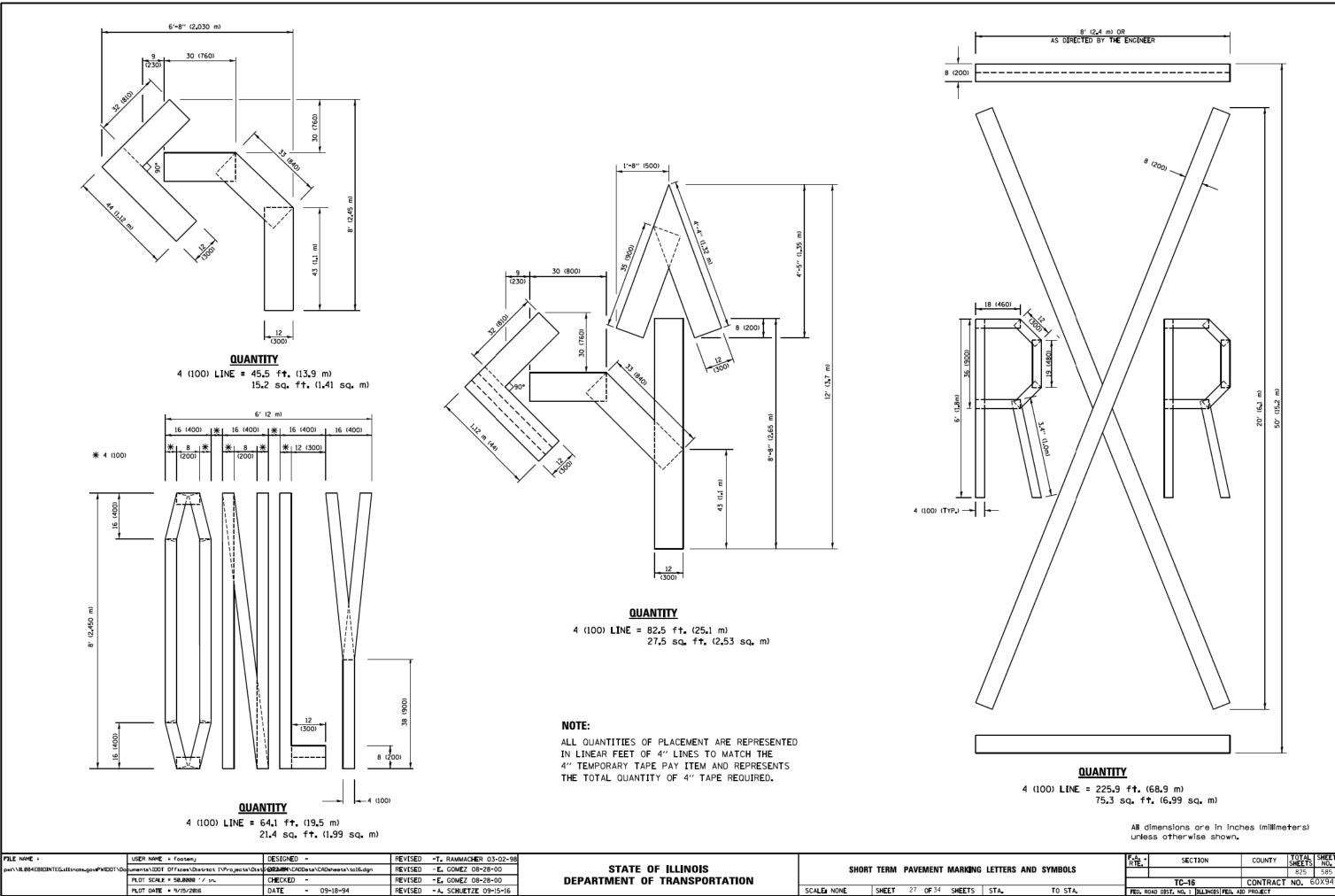




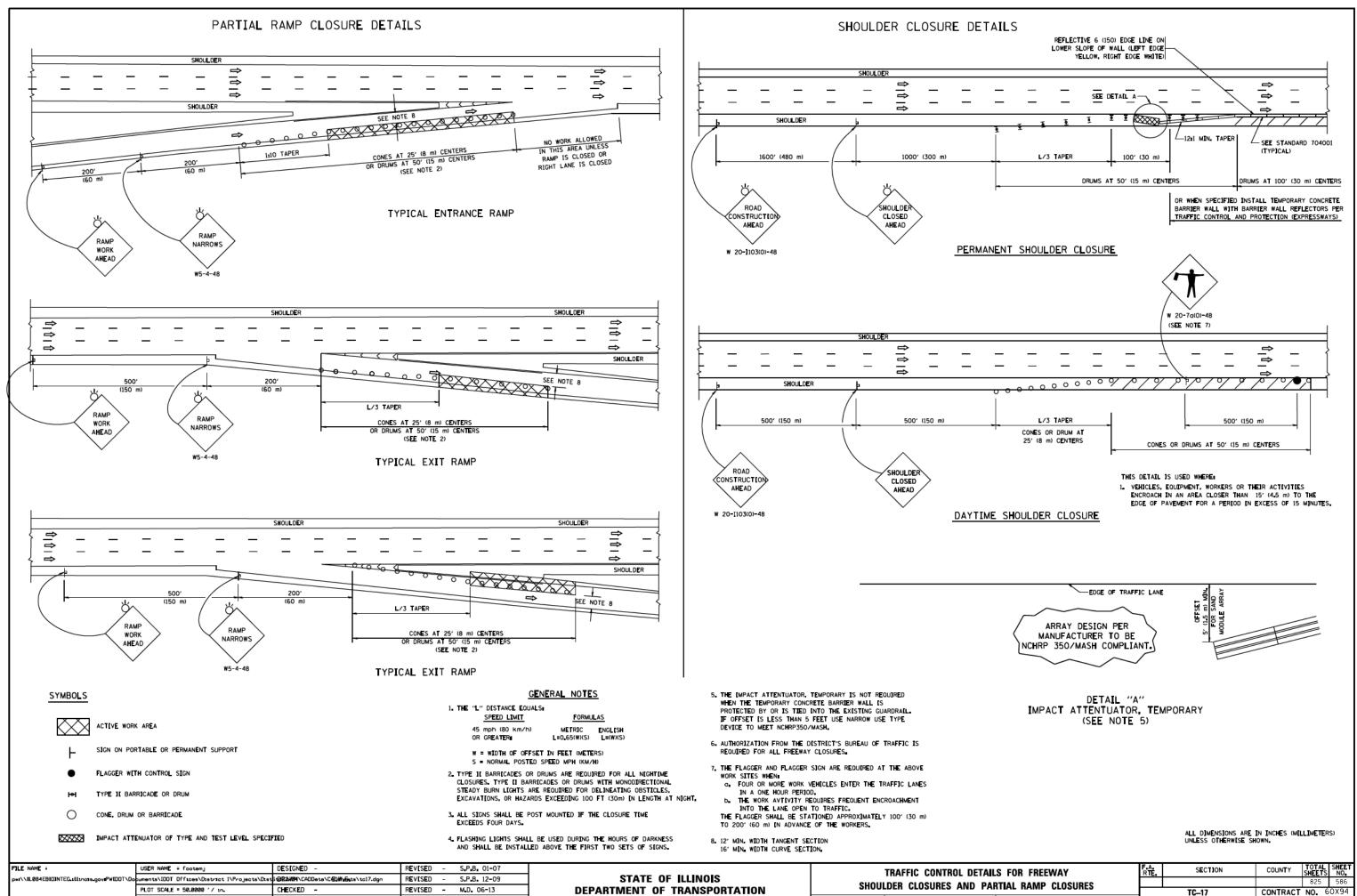


F LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOL1D	YELLOW	11 (280) C-C
	SOL]D SOL]D	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EEWAYS	SKIP-DASH SKIP-DASH	WHETE WHETE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING Extended	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOL1D	YELLOW-LEFT WHITE-RIGHT	OUTLENE MEDIANS IN YELLOW
FULL & (2.4m))	SO L1 D	WH[TE	SEE TYP]CAL TURN LANE MARKING DETAIL
ON F ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAD
•	SOLID Solid Solid	WH[TE WH[TE WH[TE	NOT LESS THAN 6' (1,8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOL1D	WHETE	PLACE 4' (1.2 m) DU ADVANCE OF AND PARALLEL TO CROSSWALK, P PRESENT. OTHERWISE, HACE AT DESIRED STOPPHON PODVT, PARALLEL TO CROSSROAD CENTERLDE, WHERE POSSELE
USED FOR	SOL 1D	YELLOW: Two way Traffic white; one way traffic	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
12 (300) 45°	SOLID	WHETE	D[AGONALS] 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
ISVERSE S 6′(1⊿8 m) 400)	SOL1D	WHETE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
•	SOL1D	WH[TE - R]CHT Yellow - Left	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
	SOL1D	WHITE	16.3 SF
	SOL1D	WHETE	30_4 SF

ONE	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO		
T MARKINGS				825	584		
		TC-13	CONTRACT	NO. 6	0X94		
S STAL TO STAL	ILLINOIS FED. AID PROJECT						



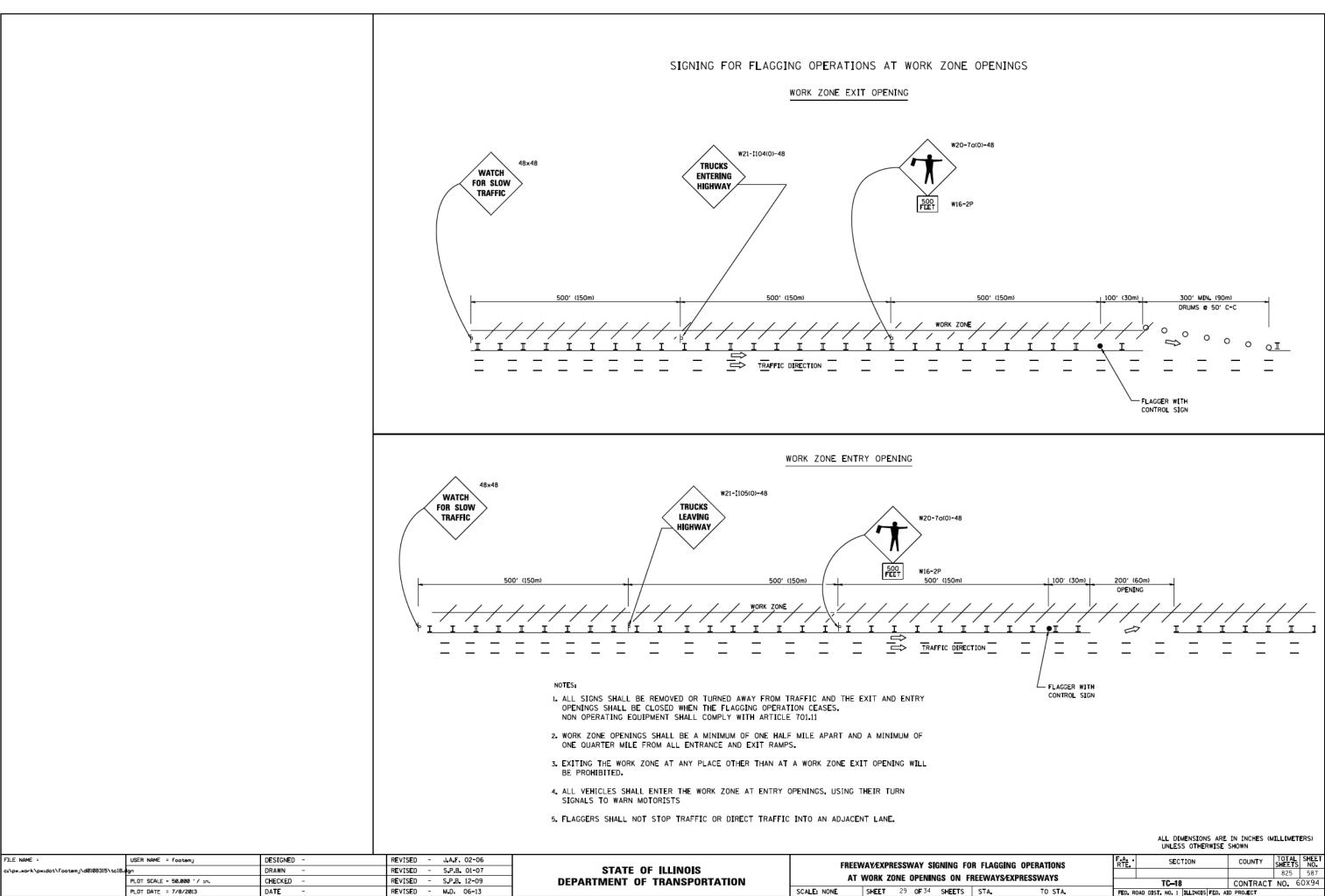
			F.A. RTE	SECTION	COUNTY	TOTAL Sheets	SHEET NO		
IG	LETTERS AND SYMBOLS				825	585			
				TC-16 CONTRACT NO. 60X9					
	STA.	TO STA	FEO. R	OAD DIST. NO. 1 JULINOIS FED. A	D PROJECT				



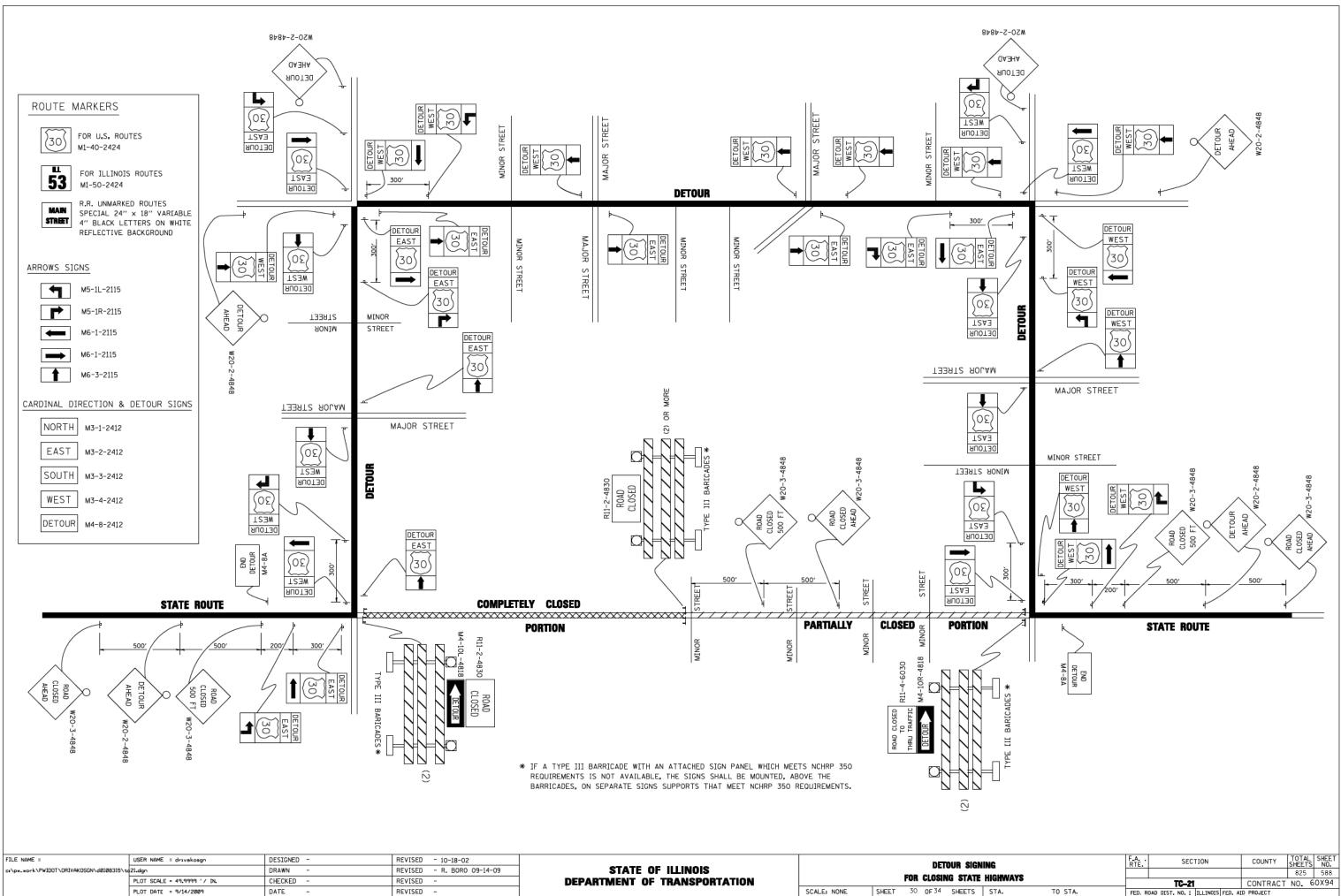
TO STA

ILLINOIS FED. AID PROJECT

FILE NAME = pwi\\ILØ84EBIDINTEG-illinoss-gov#PWEDOT\Do	USER NAME = footemj puments\IDDT Offices\District 1\Projects\Dist	DES[GNED - S120182aWMI\CADDeta\C4D14Ma5sts\tcl7.dgn	REVISED - S.P.B. 01-07 REVISED - S.P.B. 12-09	STATE OF ILLINOIS			CONTROL		
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED - M.D. 06-13	DEPARTMENT OF TRANSPORTATION	SHOU	LDEK CL	OSURES A	IND PAP	TIAL
Default	PLOT DATE = 11/27/2017	DATE - 11-96	REV[SED - M.D. 01-18		SCALE NONE	SHEET	28 of 34	SHEETS	STA_

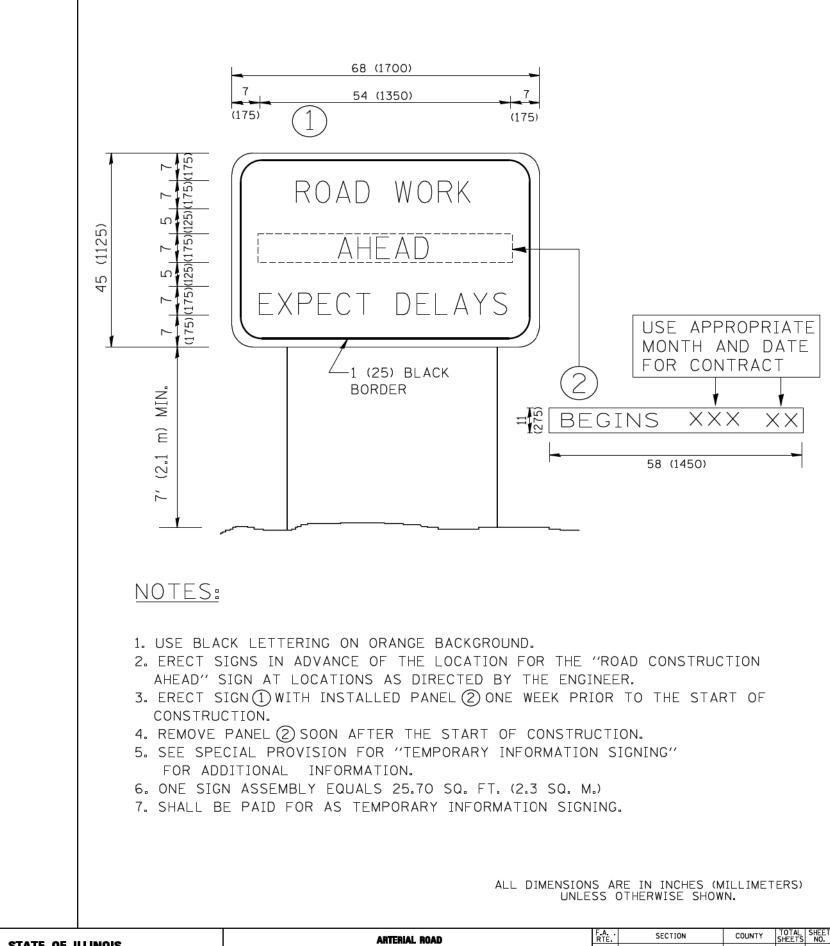


			DREEDS OTHERWISE SHOWN					
FOI	R FLAGGING OPERATIONS	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	FREEWAYS				825	587		
п	LEWATS/LAFRESSWATS	TC-18 CONTRAC			NO. 6	0X94		
	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



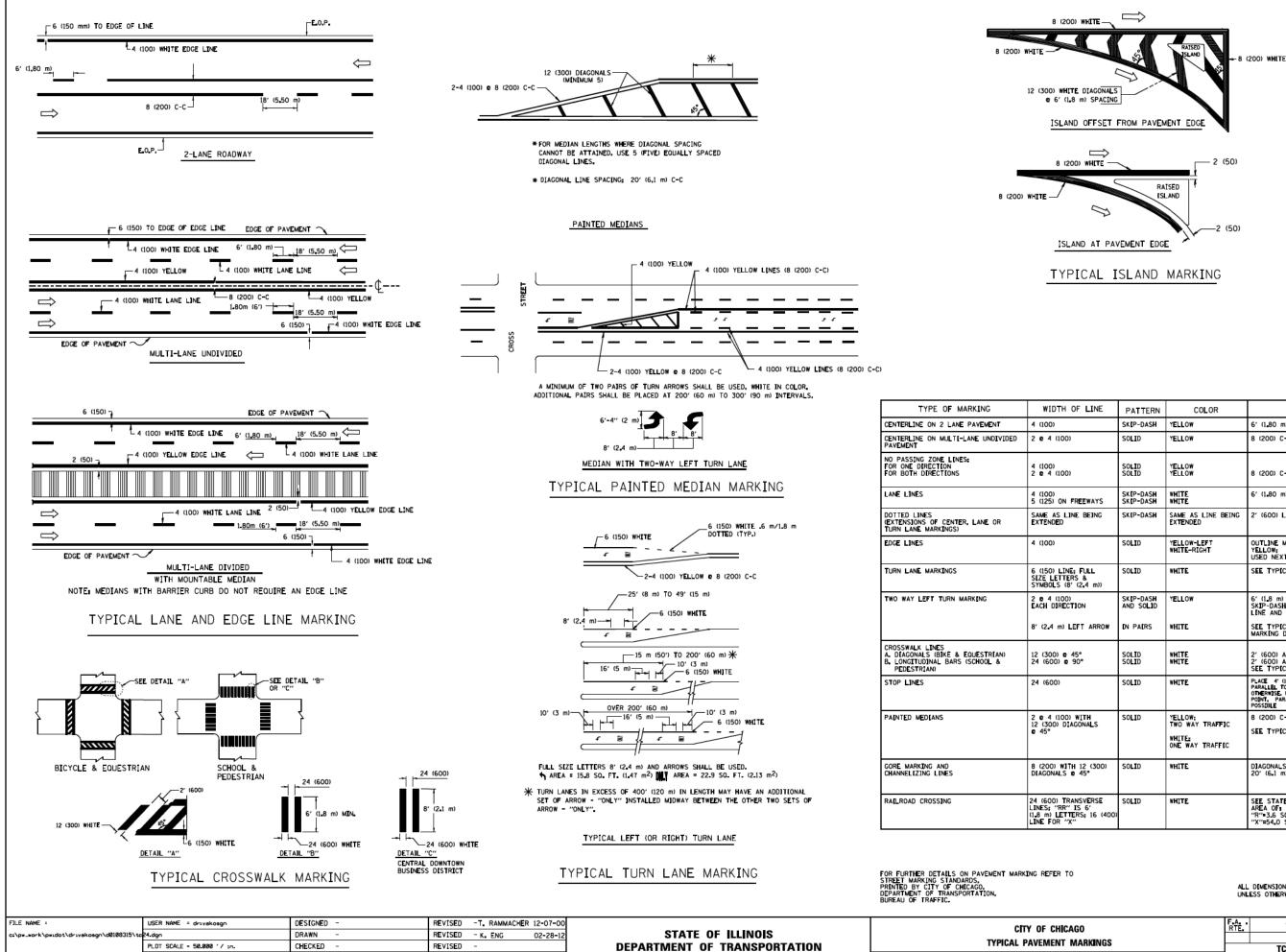
SCALE: NONE

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = geglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97		1		A1	RTERIAL RO	~~
Wi\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	1				
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION			INF	ORMATION	1 5
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET	31 OF 34	SHEETS	

ROAD N SIGN			F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
						825	589			
	N SIGN			TC-22 CONTRACT NO. 60X9						
	S⊤A.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



PLOT DATE = 3/1/2012

DATE

REVISED

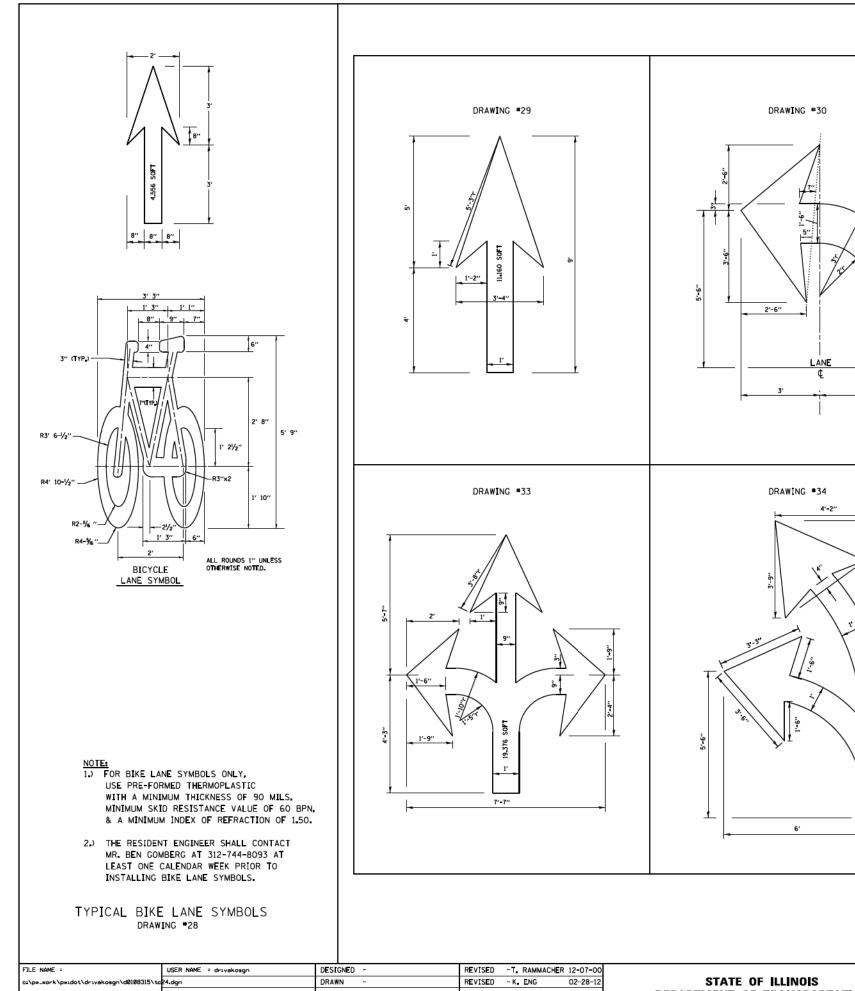
H OF LINE	PATTERN	COLOR	SPACING / REMARKS
	SK P-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
00)	SOLID	YELLOW	8 (200) C-C
00)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1_80 m) LINE WITH 18' (5.50 m) SPACE
LINE BEING D	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
LINE: FULL ITERS & (8' (2_4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
00) Rection	SKIP-DASH AND SOLID	YELLOW	6' (1,8 m) LINE WITH 18' (5,50 m) SPACE FOR SKIP-DASH: 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
n) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
₽ 45° ₽ 90°	SOLID SOLID	WHITE White	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS,
	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
00) WITH DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
W]TH 12 (300) ∟S 62 45°	SOLID	WHITE	DIAGONALSI 20' (6,1 m) (LESS THAN 30 MPH (50 km/h))
TRANSVERSE RR"IS 6' ETTERS: 16 (400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R""3.6 SO. FT. (0.33m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)

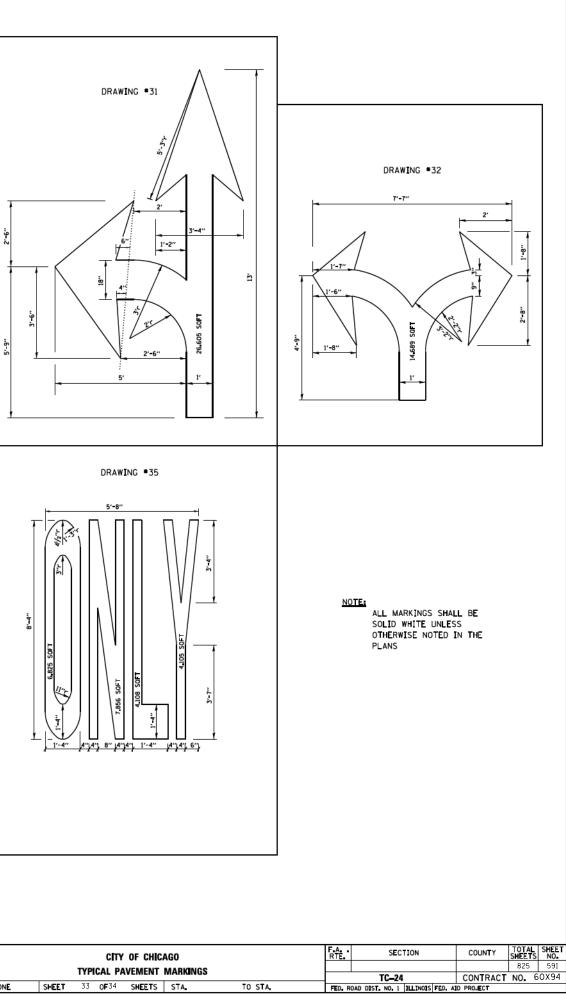
SHEET 32 OF 34 SHEETS

SCALE: NONE

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

CAGO			F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
					825	590			
	r Markings		_	TC-24 CONTRACT NO. 60					
	STA.	TO STA	FED. ROAD DIST. NO. 1 ILLINDIS FED. AD PROJECT						





5

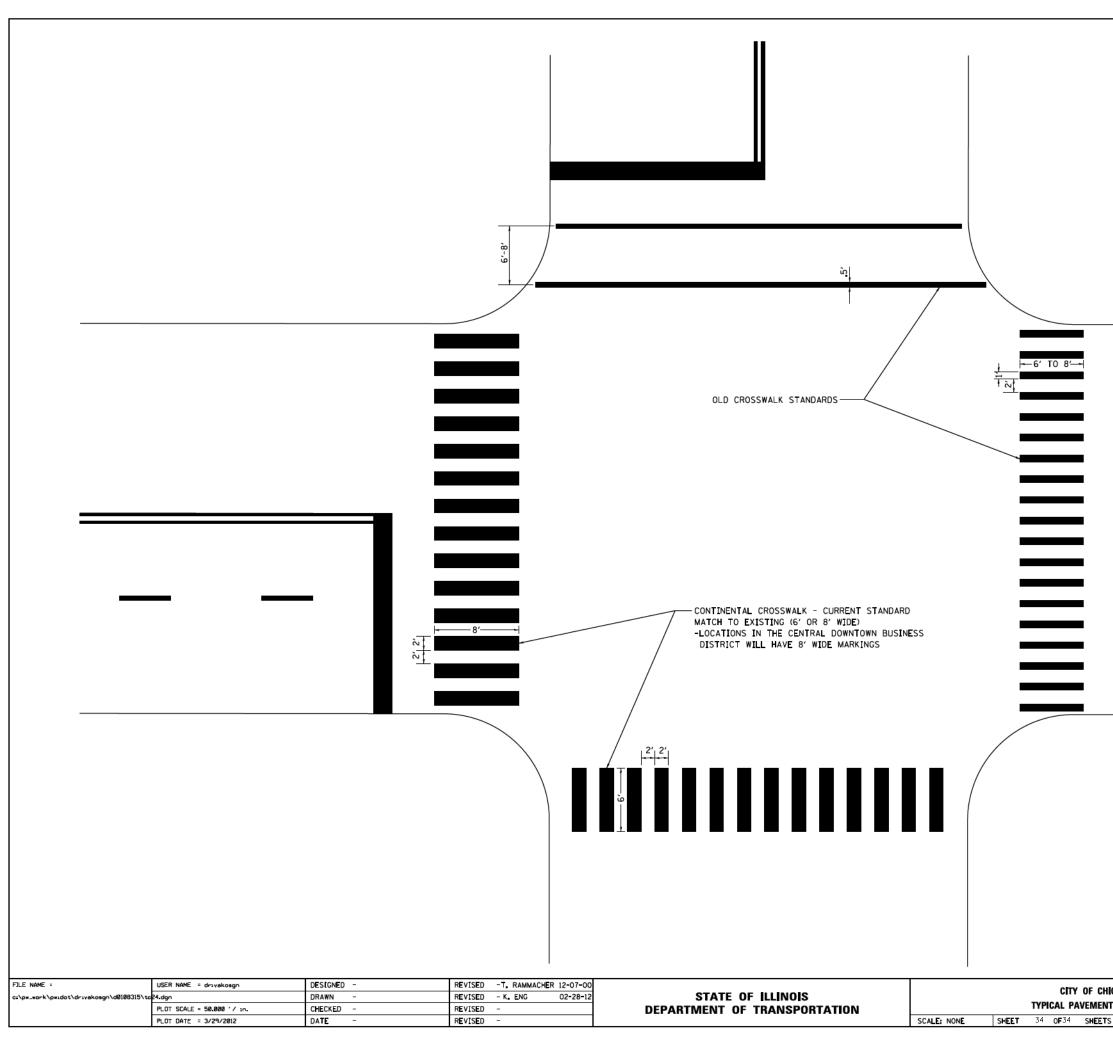
38

- 1'--

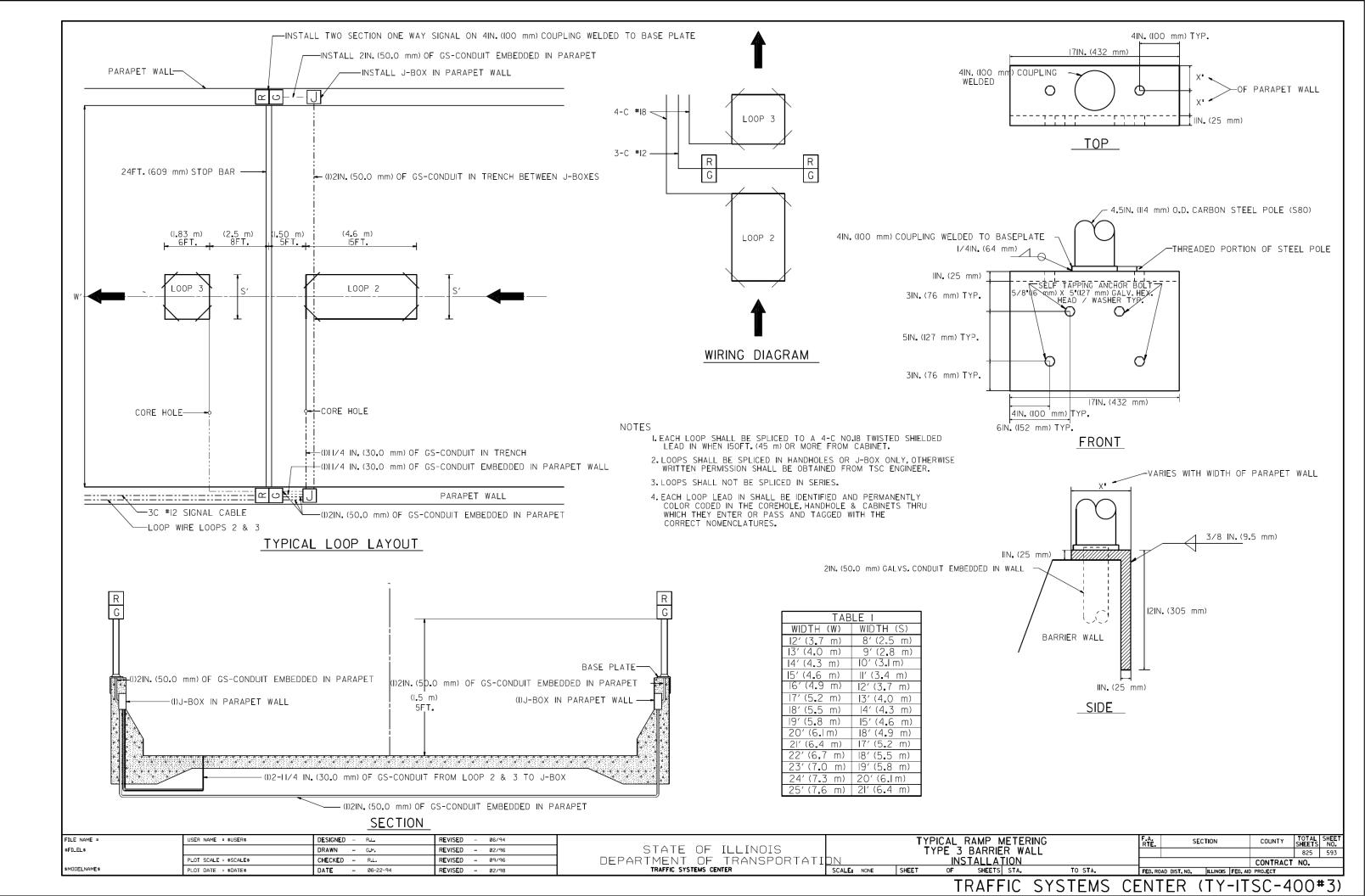
SOFT

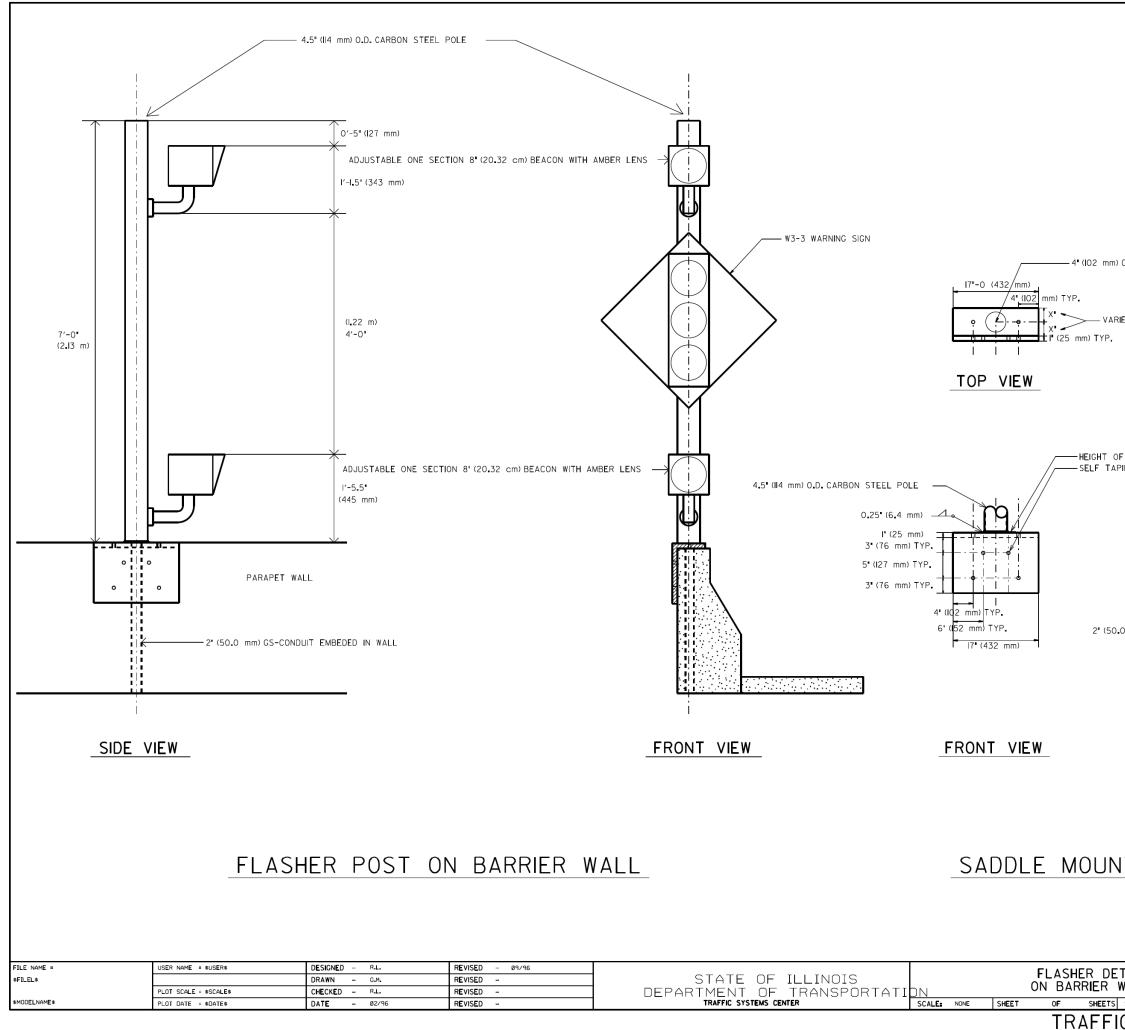
23.225

FILE NAME = USER NAME =	= drivakosgn	DESIGNED -	REVISED	-T. RAMMACH	ER 12-07-00				ct	TY OF CHICA	
c=\pw_work\pwidot\drivakosgn\d0108315\tc24.dgn		DRAWN - REVISED	REVISED	- K. ENG	02-28-12	8-12 STATE OF ILLINOIS					
PLOT SCALE	E = 50.000 1/ 1n.	CHECKED -	REVISED	-		DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT N				
PLOT DATE	= 3/29/2012	DATE -	REVISED	-			SCALE: NONE	SHEET	33 OF34	SHEETS	



Cago F Markings		F.A RTE	SECTION	COUNTY	TOTAL SHEETSSHEET NO.825592NO.60X94
					_
					=
	_				

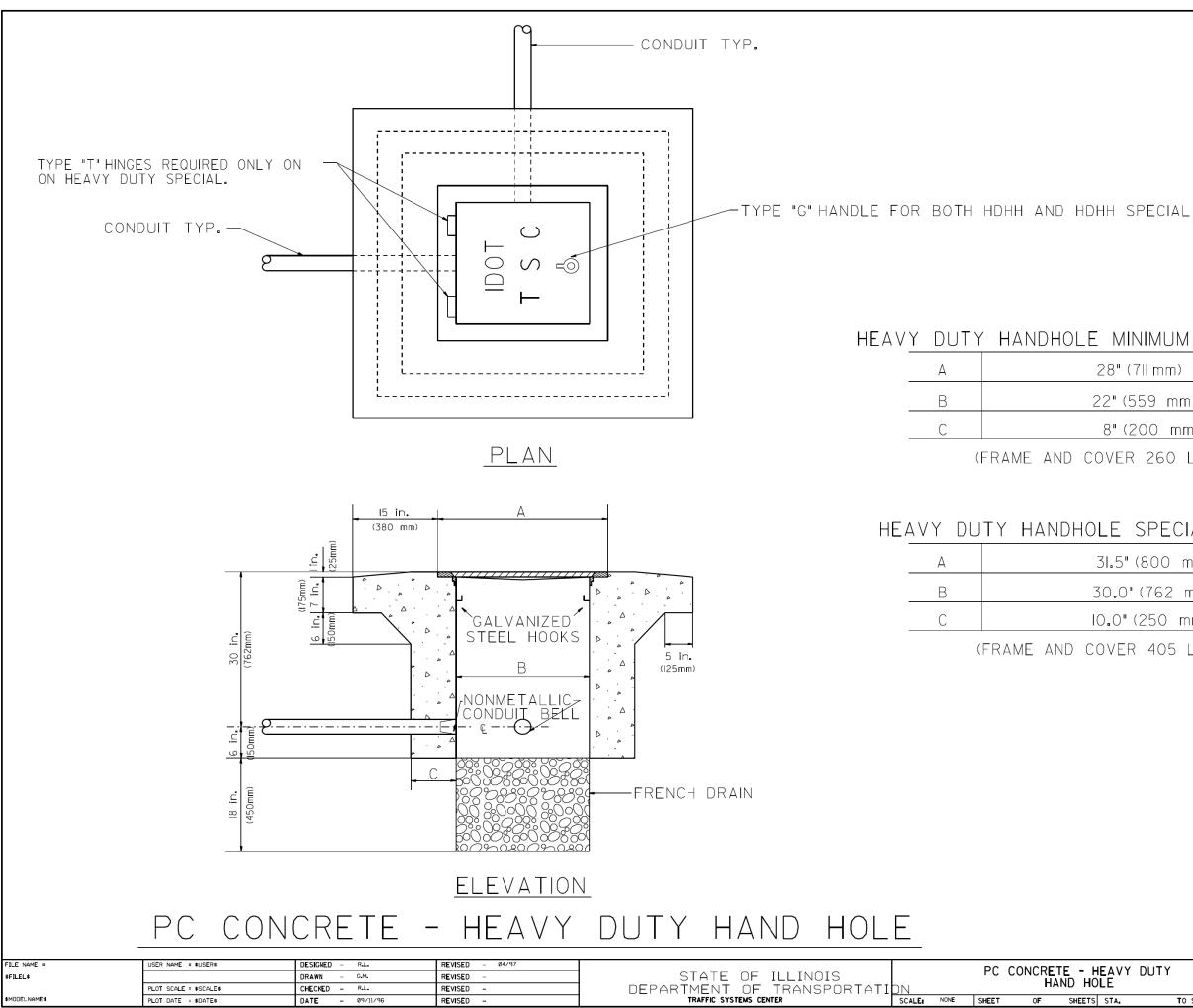




OF COUPLING TO EXCEED THREADED PORTION OF STEEL POLE APING ANCHOR BOLT 5/6"(159 mm)X 5"(127 mm)GALVANIZED HEX HEAD/WASHER TYP.
VARIES WITH BARRIER WALL WIDTH
SIDE VIEW
NTING FOR FLASHER POST
ETAIL RTE. SECTION COUNTY SHEETS NO. WALL CONTRACT NO.
S STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

VARIES WITH BARRIER WALL WIDTH

-4" (IO2 mm) COUPLING WELDED CENTERED IN WALL



TRAFF

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

28" (711 mm)

22" (559 mm)

8"(200 mm)

(FRAME AND COVER 260 LBS. (II8 Kg.) MIN.)

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

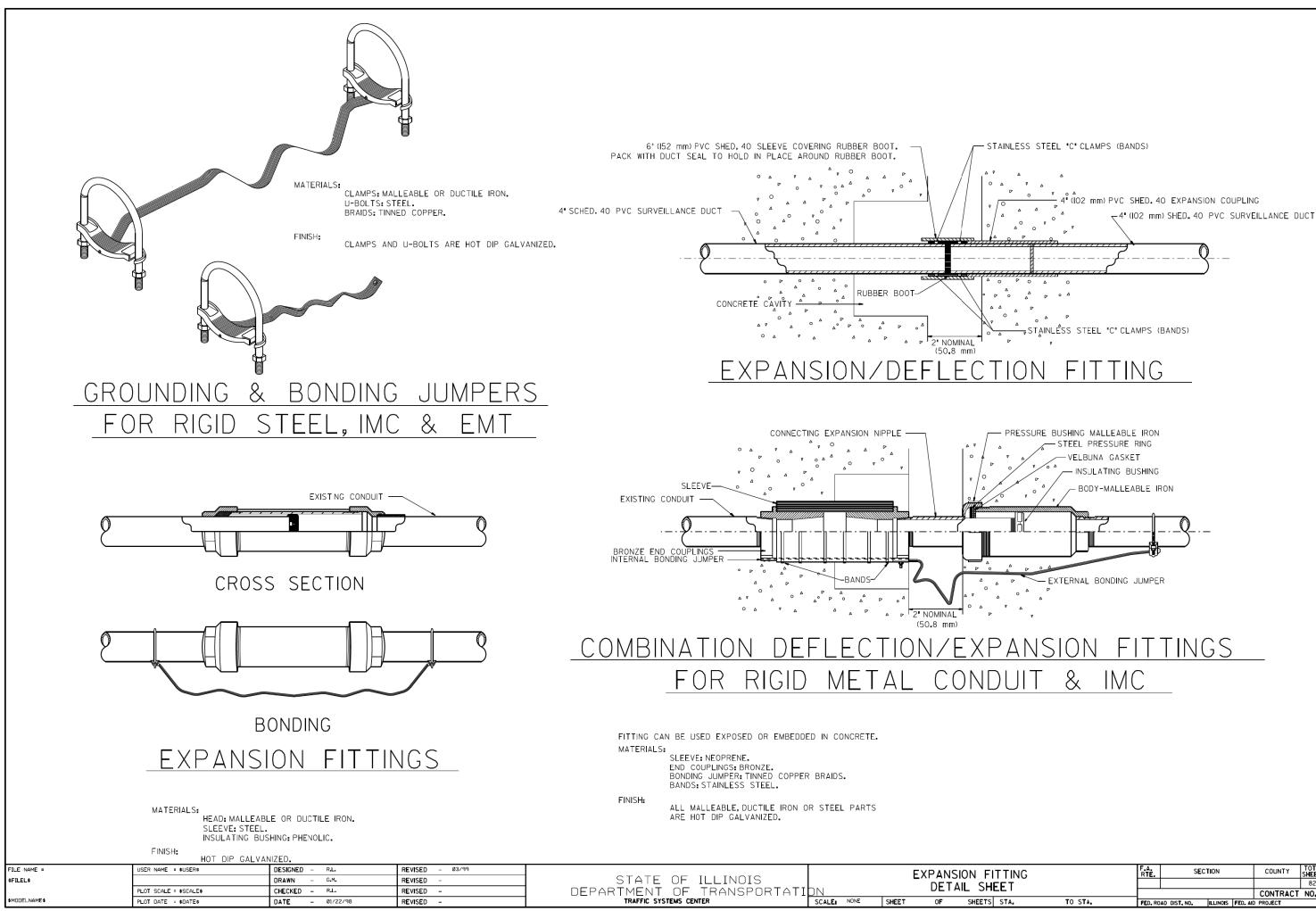
31.5" (800 mm)

30.0"(762 mm)

10.0"(250 mm)

(FRAME AND COVER 405 LBS.(184 Kg.(405))

HEA	VY DUTY	RTE.	SEC	TION		COUNTY	SHEETS	NO.
OLE							825	595
						CONTRACT	NO.	
S ST/	A. TO STAL	FED. RO	AD DIST. NO.	ILLINOIS	FED. AIC	PROJECT		
IC	SYSTEMS	CENT	ER (T	Y –	ITS	SC-4C	0(#	5)



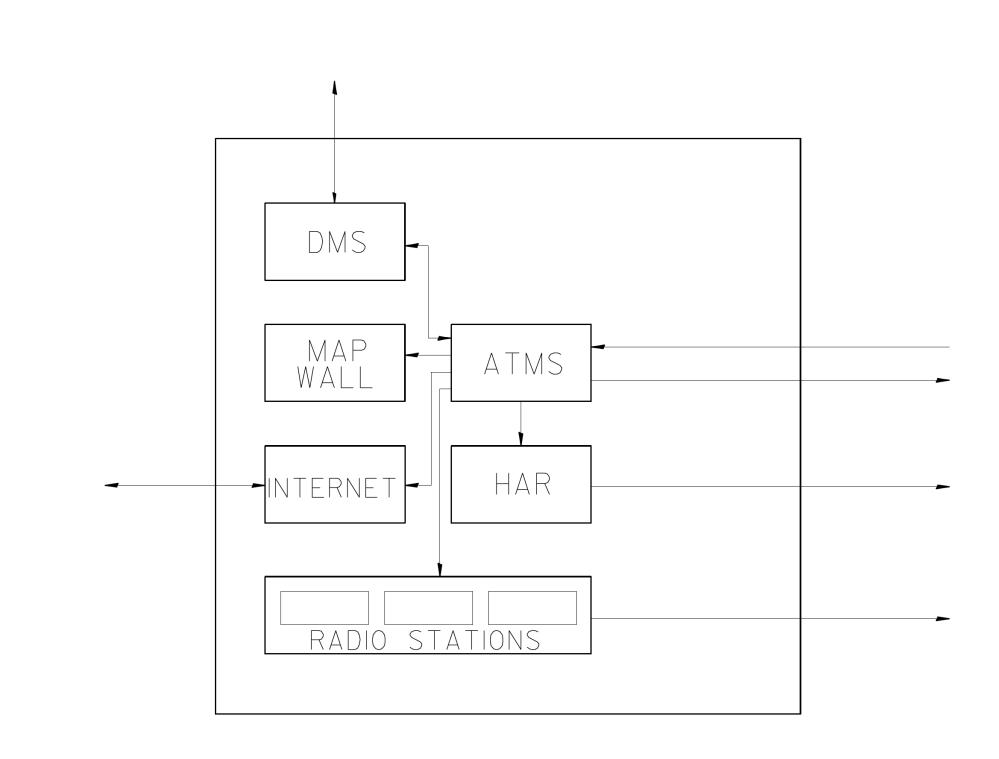
TRAFF

	NG	F	RTE.		SEC	TION		COUNTY	TOTAL Sheets	SHEET NO.
HEE T	F								825	596
								CONTRACT	NO.	
S STA	. TO STA.	F	ED, ROA	AD DIST. N	NO.	ILLINOIS	FED. AIC	PROJECT		
IC	SYSTEMS	CEN	ITE	R	(T	'Y-I	ITS	SC-40	0 #	8)

\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE - 01/07/2010	REVISED -	TRAFFIC SYSTEMS CENTER		NONE	SHEET	OF	SHEETS
	PLOT SCALE = \$SCALE\$	CHECKED - J.G.	REVISED -	DEPARTMENT OF TRANSPORTATI	DN				
\$FILEL\$		DRAWN - G.M.	REVISED -	STATE OF ILLINOIS				TSC	C ATMS
FILE NAME = C:\d106010\155TSCTYP.DGN	USER NAME = \$USER\$	DESIGNED - J.G.	REVISED -						

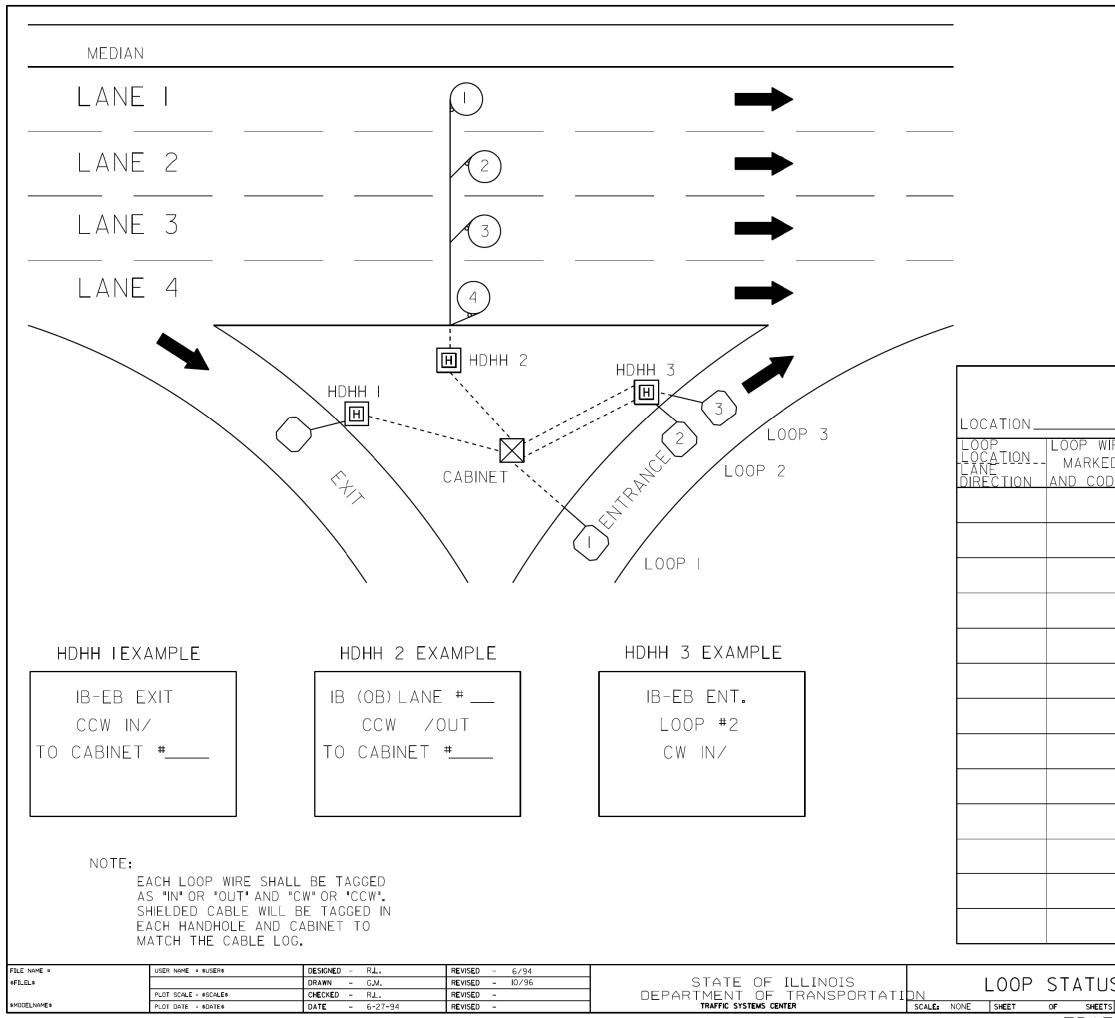
Т	R	٨	F	F	IC
	1 1	А		<u>ا</u>	

TSC



DETECTORS AND DMS

THC .			F.A. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ГMS	MS							825	597
							CONTRACT	NO.	
IEETS	STA. TO	A. TO STA.		AD DIST.NO.	ILLINOIS	FED. AID	PROJECT		
С	SYSTEMS	S CENT	ER	4TY	-IT	SC	-400	#43	3)



S REPORT			RTE.	SECTION			COUNTY	TOTAL Sheets	SHEET NO.
							825	598	
						CONTRACT	NO.		
S STA	TO STA.		FED, ROA	D DIST. NO.	ILLINOIS F	ED. AID	PROJECT		
FIC	SYSTEM	MS C	EN	TER	(TY)	-17	ſSC-⊿	4I8 #	7)

			DATE_	
VIRE ED DED	LOOP SIZE	FREQ. Inductance	INSULATION	LOOP RESISTANCE

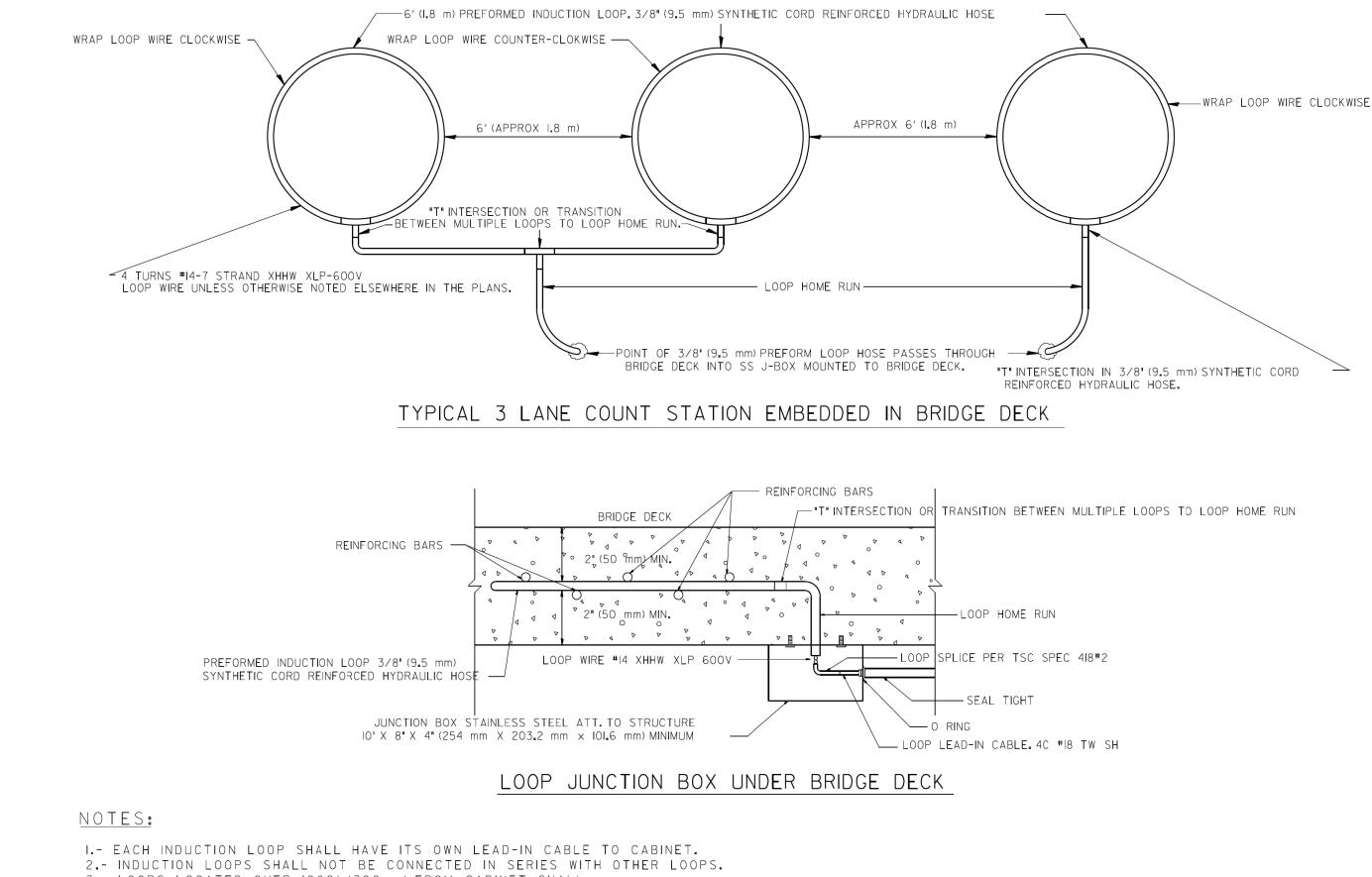
o o SIZE 2.5" (63.5 mm) X 1.75" (44.45 mm) o o

SUGGESTED TAG

#MP250WI75-C OR EQUIVALENT

LOOP ANALYZER

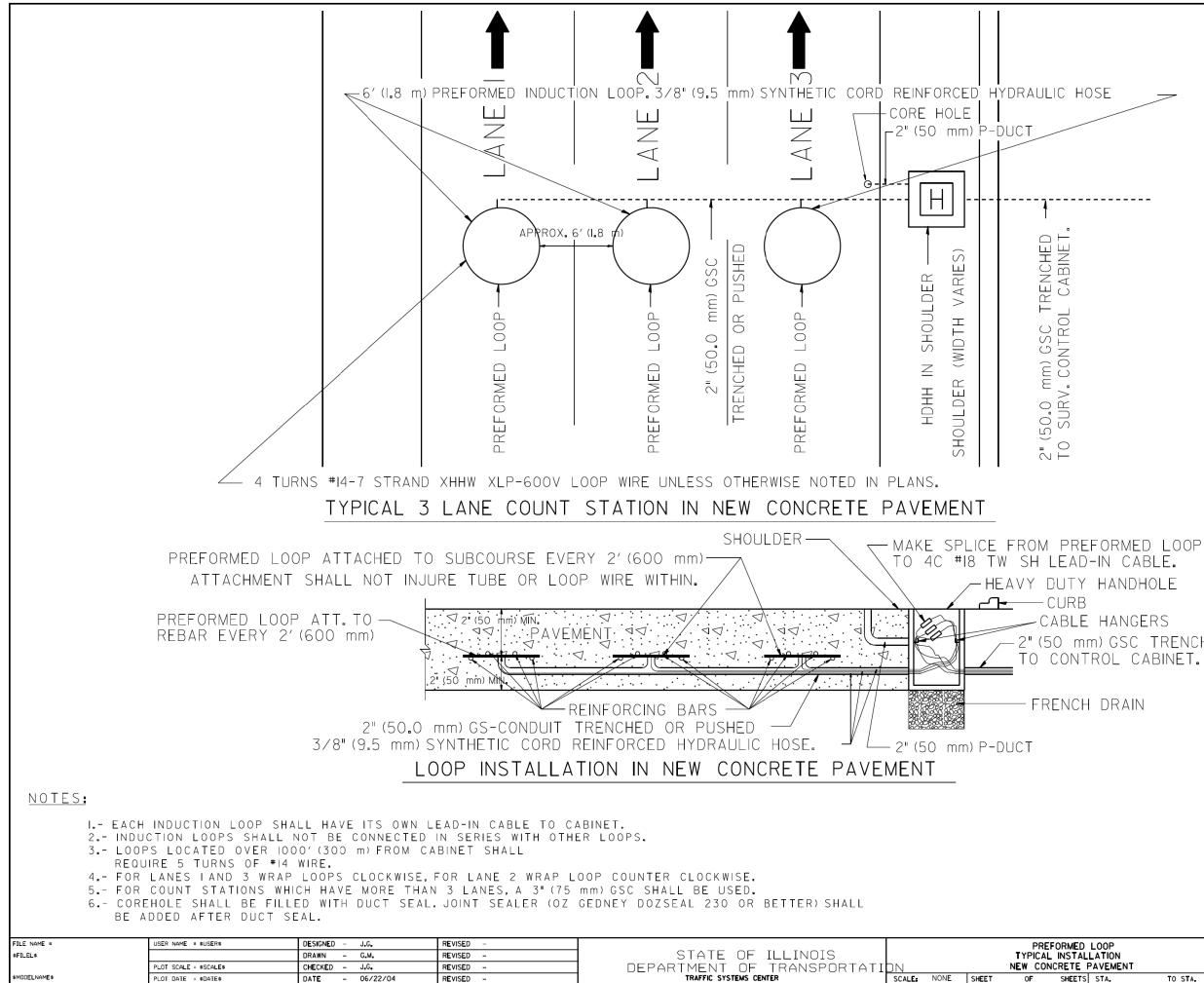
PANDUIT



- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL
- REQUIRE 5 TURNS OF #14 WIRE.

FILE NAME =	USER NAME = \$USER\$	DESIGNED - R.L.	REVISED -			PREFORM	ED L	OOP INS
\$FILEL\$		DRAWN - G.M.	REVISED -	STATE OF ILLINOIS			I	IN
	PLOT SCALE = \$SCALE\$	CHECKED - RL.	REVISED -	DEPARTMENT OF TRANSPORTATI	DN		BRIDG	E DECK
\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE – 2-97	REVISED -	TRAFFIC SYSTEMS CENTER	SCALE: NONE	SHEET	JF	SHEETS S
							TF	RAFF

INSTALL	ATION		RTE.	S	ECTION	COUNTY	TOTAL Sheets	SHEET NO.
0 1/							825	599
СК						CONTRACT	NO.	
S STA	TO STA.		FED. RO	AD DIST. NO.	ILLINOIS FED. AI	PROJECT		
FIC	SYSTEMS	\cap	EN.	TFR	(TY-I)	[SC-4	118#	9)
110	5151605				VII I	50	10	57



PREFORMED LOOP			F.A. R TE.	SEC	CTION		COUNTY	TOTAL Sheets	SHEET NO.	
YPICAL INSTALLATI								825	600	
W CONCRETE PAVEMENT			CONTRACT NO.							
OF SHEETS STA	. TO STA.		FED. RO	AD DIST.NO.	ILLINOIS	FED. AID	PROJECT			
TRAFFIC	SYSTEMS	CEN	NTE	ER (1	ΓY-	ITS	SC-418	3#19))	

CABLE HANGERS 2" (50 mm) GSC TRENCHED TO CONTROL CABINET.