















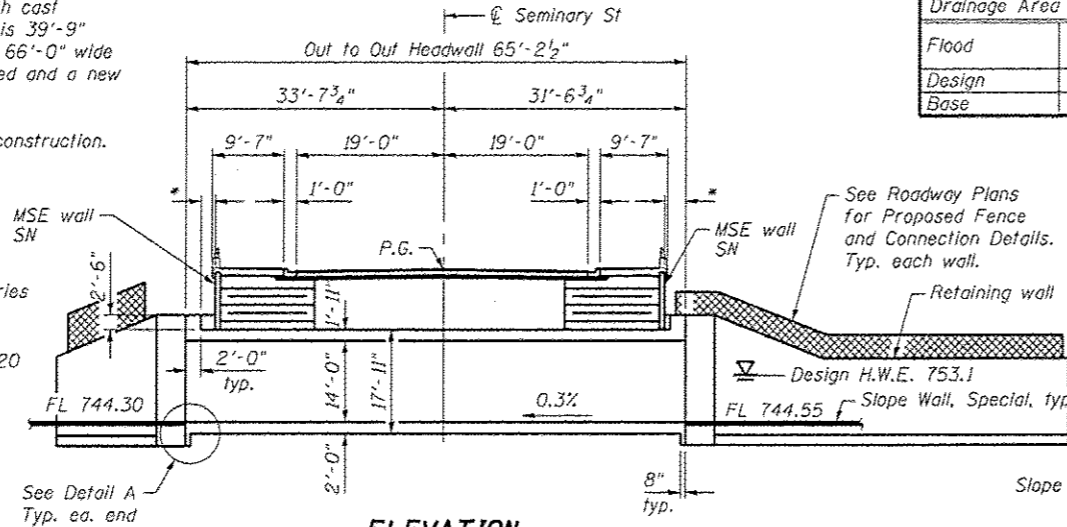
Benchmark: Chiseled "X" on cap bolt of fire hydrant in N.E. quadrant of the Seminary St. and Grove St. intersection. Elevation 764.29

Existing Structure (SN 048-6001): Single span bridge with 6" reinforced concrete deck slab constructed monolithically with cast in place reinforced concrete girders. The span is 39'-9" face to face of abutments and the structure is 66'-0" wide out to out. The existing structure will be removed and a new culvert will replace it.

Seminary Street will be closed to traffic during construction.

No salvage.

Note: The existing concrete paved channel is to be removed entirely from channel Station 1+10.00 to 3+20.00 and on the south bank from Station 3+20 to 3+50. Cost of removal is included with Slope Wall, Special.



**ELEVATION**  
Dimensions at Rt. Ls to Tangent at Sta. 121+23.02

**WATERWAY INFORMATION**

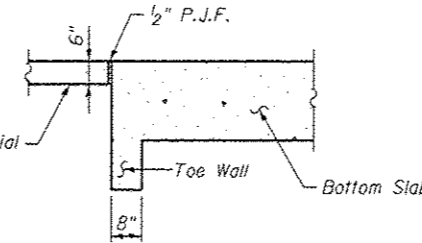
Drainage Area = 4.6 Sq. Mi.		Roadway Elev. ±770.00 @ Sta. -					
Flood	Freq. Yr.	0	Opening Sq. Ft.	Nat.	Head - Ft.	Headwater El.	
Design	30	1620	206	245	753.1	0.2	0.1
Base	100	2000	259	298	755.0	0.3	0.0
						755.3	753.2

**DESIGN SCOUR ELEVATION TABLE**

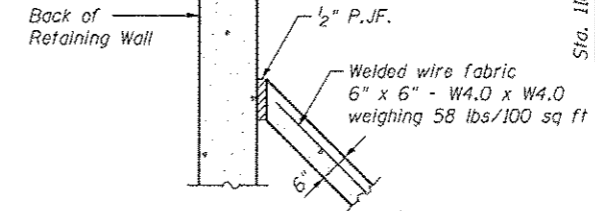
Design Scour Elevation (ft.)	Upstream	Downstream
	740.35	740.30

**TOTAL BILL OF MATERIAL**

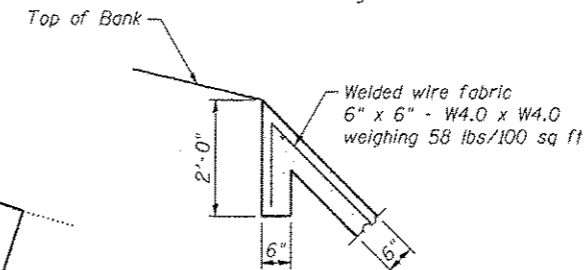
ITEM	UNIT	CULVERT	RETAINING WALLS	TOTAL
Structure Excavation	Cu Yd		1117	1117
Removal of Existing Structures	Each			1
Slope Wall, Special	Sq Yd			738
Concrete Box Culverts	Cu Yd	619.2		619.2
Concrete Structures	Cu Yd		156.9	156.9
Reinforcement Bars, Epoxy Coated	Pound		4560	4560
Reinforcement Bars	Pound	124,850	13,090	137,940
Name Plates	Each			1
Geocomposite Wall Drain	Sq Yd		169	169
Porous Granular Backfill	Cu Yd		226	226



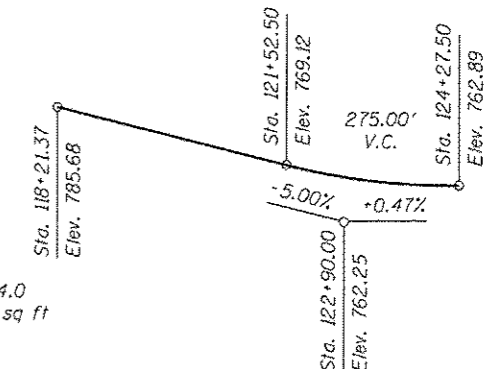
**DETAIL A**



**SLOPE WALL, SPECIAL**  
at Retaining Wall



**SLOPE WALL, SPECIAL**  
at Top of Bank



**PROFILE GRADE**

Along @ Rdwy.

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

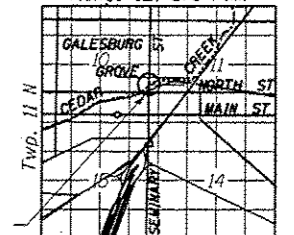
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

Range IE, 3rd P.M.



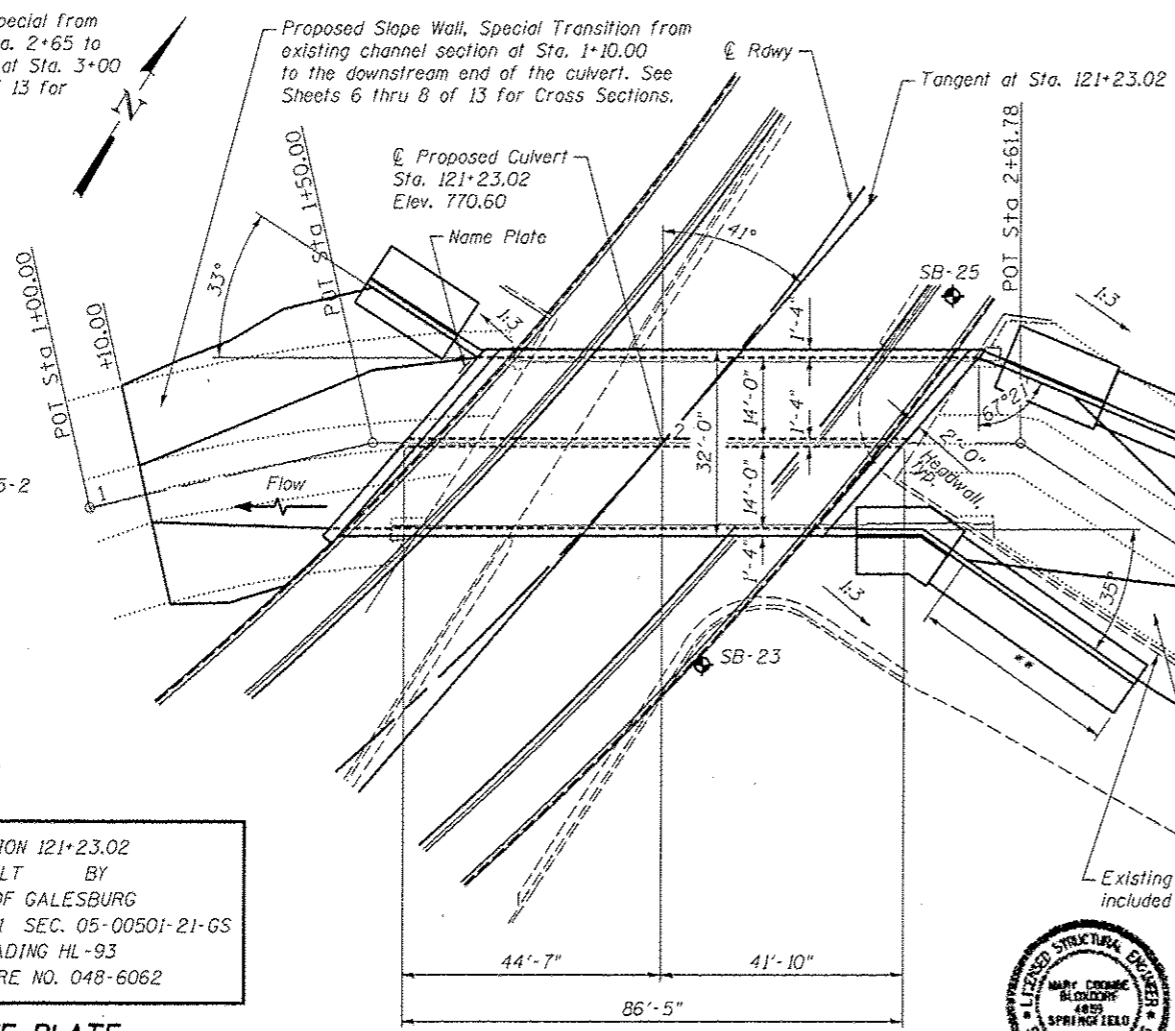
**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
**PROPOSED SEMINARY ST OVER CEDAR CREEK**

**SECTION 05-00501-21-GS KNOX COUNTY**

**STATION 121+23.02**

**STRUCTURE NO. 048-6062**



**PLAN**

EXIST. CURVE CULV01  
PI STA. = 3+58.60  
 $\Delta = 31^\circ 20' 38''$  (LT)  
 $D = 30^\circ 30' 39''$   
 $R = 187.79'$   
 $T = 52.69'$   
 $L = 102.73'$   
 $E = 7.25'$   
 $\theta = \text{---}$   
T.R. =  $\text{---}$   
S.E. RUN =  $\text{---}$   
P.C. STA. = 3+05.91  
P.T. STA. = 4+08.64

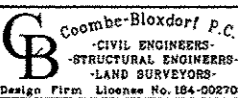
I certify that to the best of my knowledge, information and belief, this Box Culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".



*Mark Andrew Bloxdorf*  
ILLINOIS STRUCTURAL NO. 4839  
EXPIRES 11/30/14  
DATE: 05/24/13

STATION 121+23.02  
BUILT BY  
CITY OF GALESBURG  
F.A.U. RTE. 6801 SEC. 05-00501-21-GS  
LOADING HL-93  
STRUCTURE NO. 048-6062

**NAME PLATE**  
See Std. 515001



USER NAME = brast00993	DESIGNED - RKM	REVISED -
PLOT SCALE = 3/16" = 1' - 0"	CHECKED - AMC, MCB	REVISED -
PLOT DATE = 07/02/2013	DRAWN - CFC, MML	REVISED -
	DATE - 5-24-2013	REVISED -

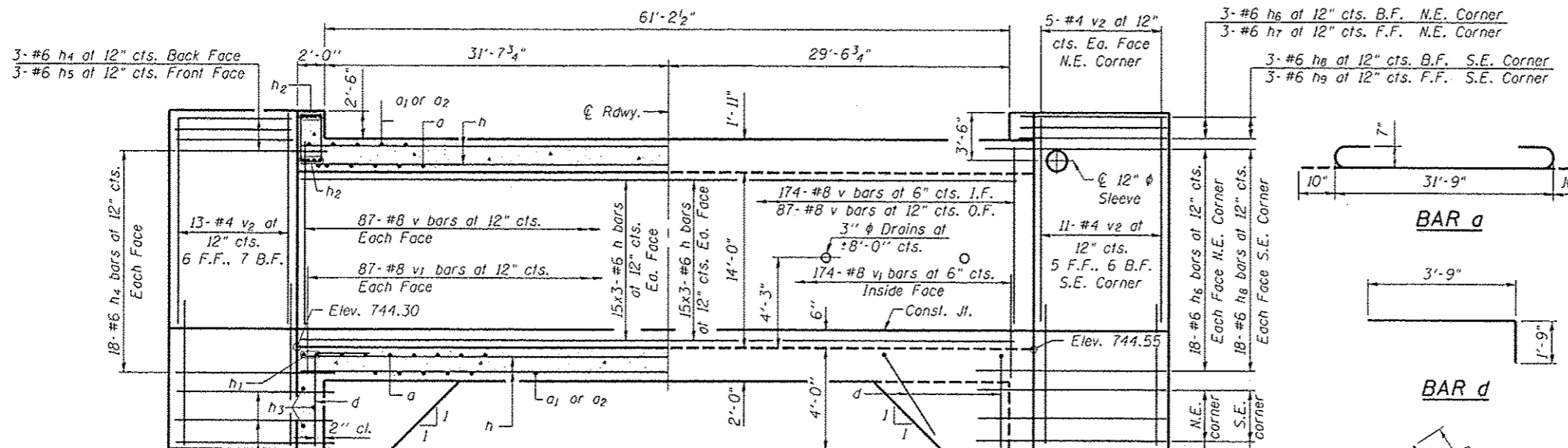
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 048-6062

SHEET NO. 1 OF 13 SHEETS

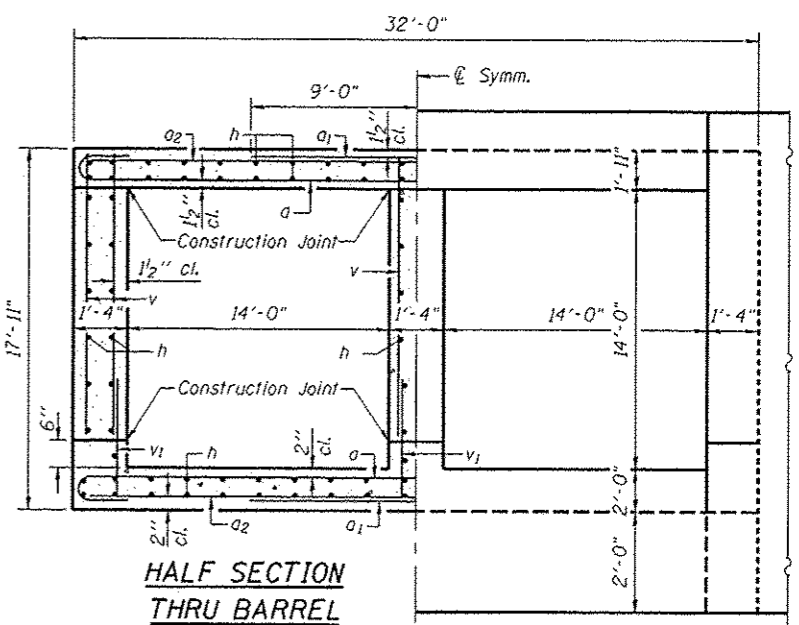
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	108
			CONTRACT NO. 89419	
ILLINOIS FED. AID PROJECT				





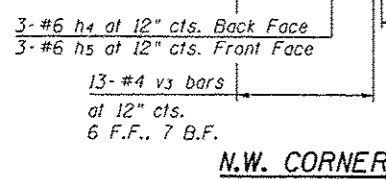
**HALF LONG SECTION**  
Showing bars in Center Wall  
Dimensions are at Right Angles to Local Tangent at Sta. 121+23.02

**HALF ELEVATION**  
Showing bars in Outside Wall  
Along Inside Face



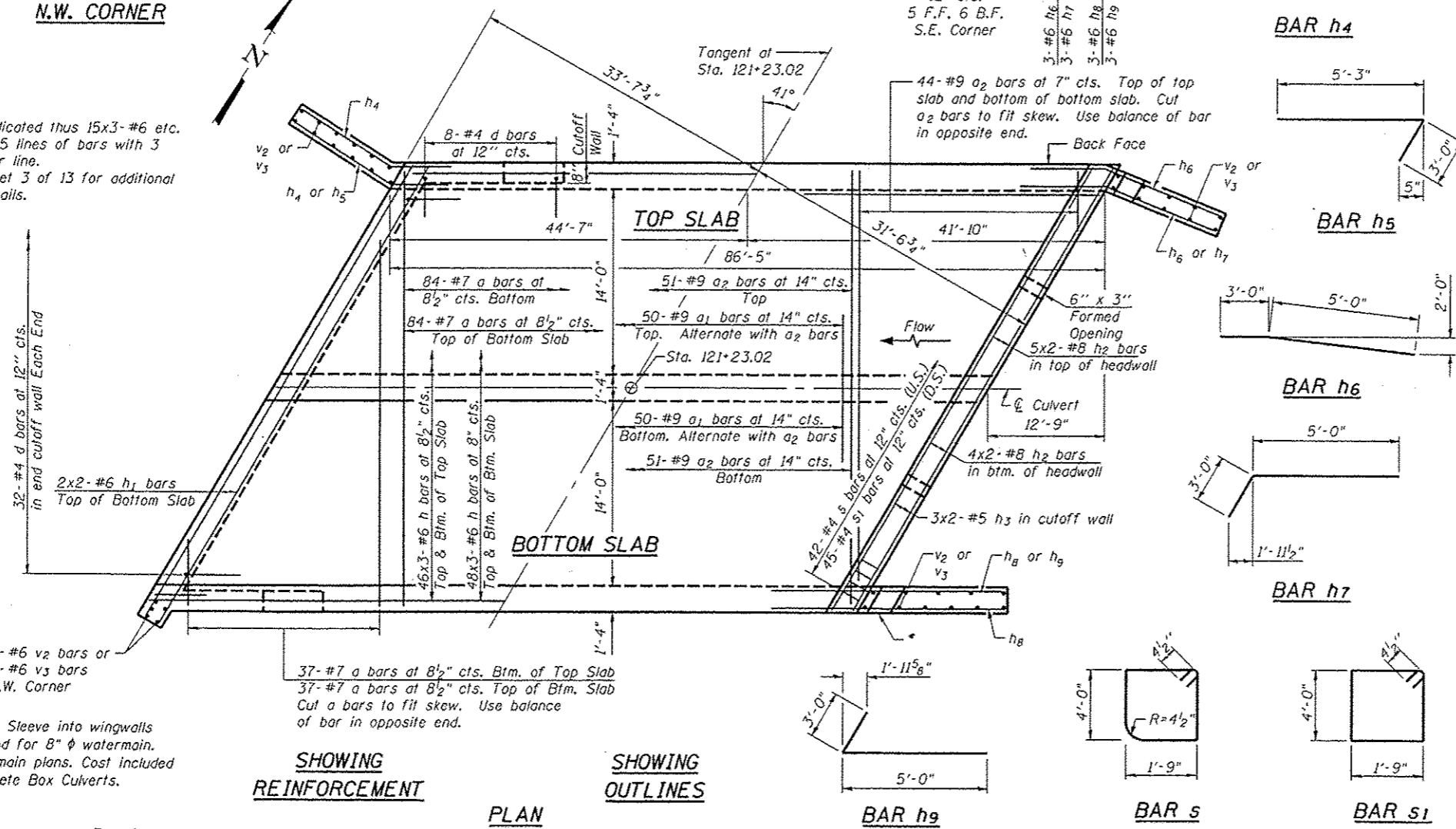
**HALF SECTION THRU BARREL**

**HALF END ELEVATION**



**N.W. CORNER**

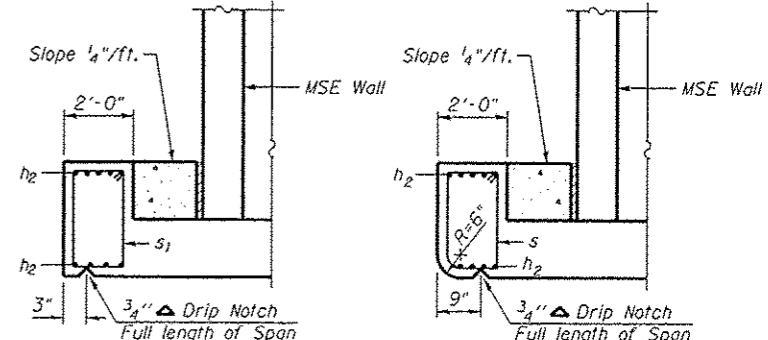
Notes:  
Bars indicated thus 15x3-#6 etc. indicates 15 lines of bars with 3 lengths per line.  
See Sheet 3 of 13 for additional culvert details.



**SHOWING REINFORCEMENT**

**SHOWING OUTLINES**

**PLAN**



**DOWNSTREAM HEADWALL**

**UPSTREAM HEADWALL**

Note: After MSE Wall has settled fill space between MSE Wall & Headwall with Concrete. Provide 1/2" PJF between MSE Wall & adjacent concrete. Cost included with Concrete Box Culverts.

**MIN. BAR LAP**  
#4 Bars = 1'-5"  
#5 Bars = 2'-5"  
#6 Bars = 2'-11"  
#8 Bars = 5'-1"

**BILL OF MATERIAL - CULVERT BARREL**

Bar	No.	Size	Length	Shape	Bar	No.	Size	Length	Shape	
a	242	#7	33'-5"	C	h6	42	#6	8'-0"		
a1	100	#9	18'-0"		h7	6	#6	8'-0"		
a2	190	#9	31'-9"		h8	42	#6	7'-6"		
					h9	6	#6	8'-0"	L	
d	96	#4	5'-6"		s	42	#4	12'-3"		
					s1	45	#4	12'-3"		
h	834	#6	30'-9"							
h1	8	#6	22'-9"							
h2	36	#8	24'-9"		v	696	#8	15'-1"		
h3	12	#5	22'-6"		v1	522	#8	7'-8"		
h4	42	#6	8'-0"		v2	39	#4	17'-7"		
h5	6	#6	8'-3"		v3	39	#4	6'-0"		
Concrete Box Culverts									Cu. Yd.	619.2
Reinforcement Bars									Pound	124,850

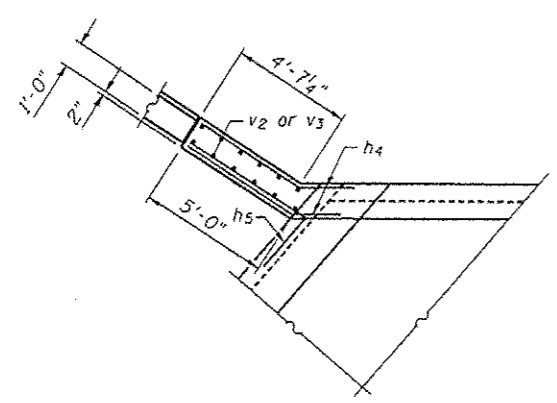
DB-T-R  
7-1-10  
Coombe-Bloxdorf P.C.  
CIVIL ENGINEERS  
STRUCTURAL ENGINEERS  
LAND SURVEYORS  
Design Firm License No. 161-062703

DESIGNED - RKM  
CHECKED - AMC, MCB  
DRAWN - CFC, MML  
DATE - 5-24-2013

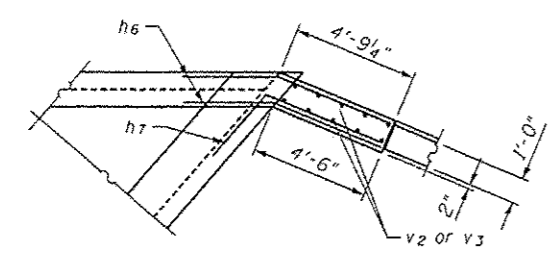
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT PLAN  
STRUCTURE NO. 048-6062  
SHEET NO. 2 OF 13 SHEETS

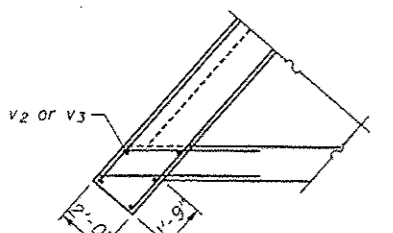
F.A.U. 6801  
SECTION 05-00501-21-GS  
COUNTY KNOX  
TOTAL SHEETS 269  
SHEET NO. 109  
CONTRACT NO. 89419  
ILLINOIS FED. AID PROJECT



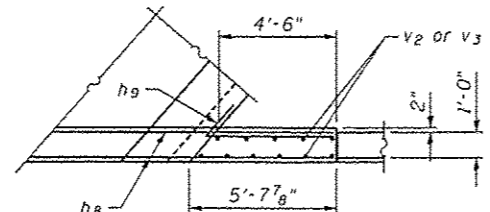
DETAIL "A"



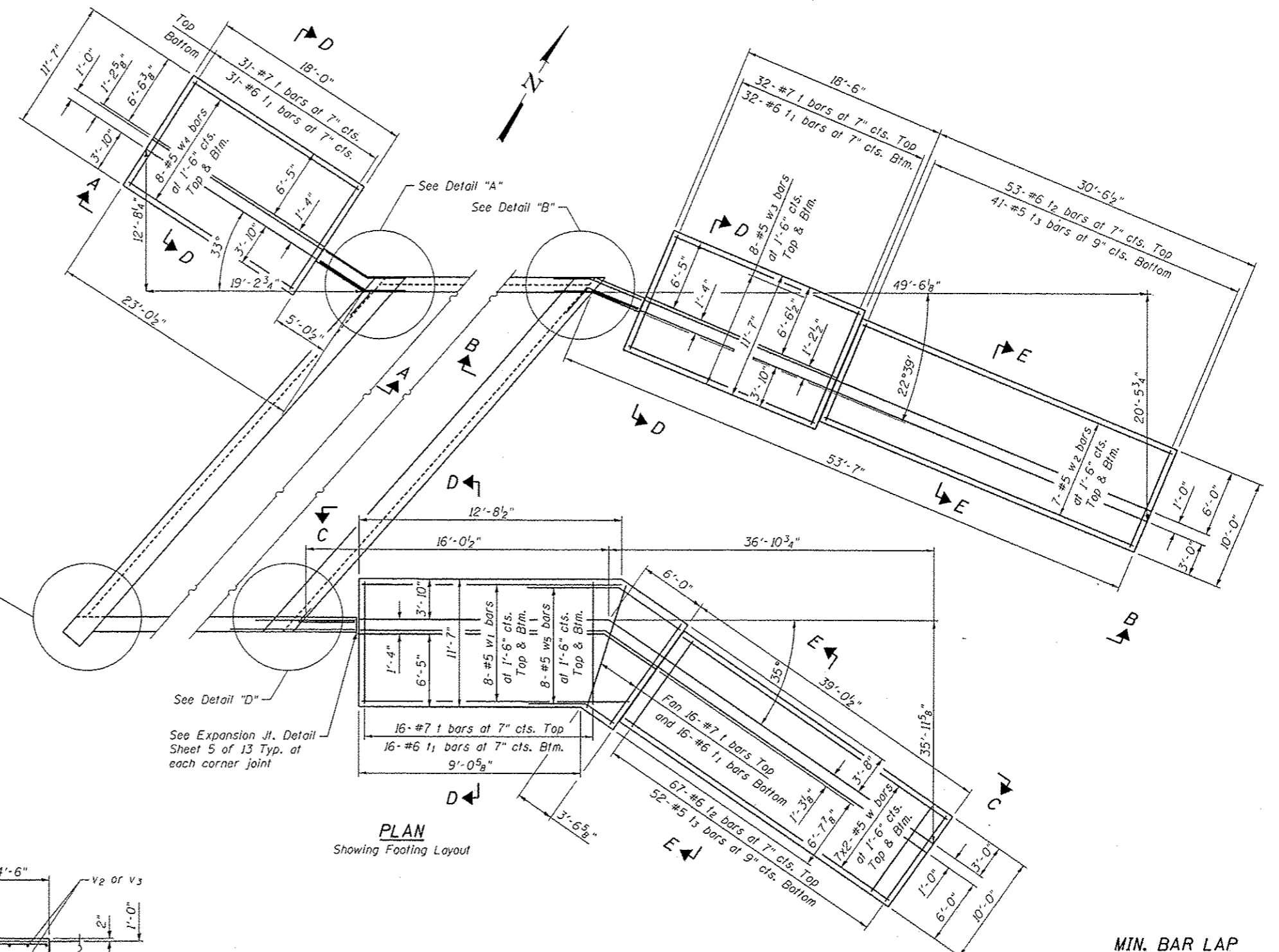
DETAIL "B"



DETAIL "C"



DETAIL "D"



PLAN  
Showing Footing Layout

MIN. BAR LAP  
#5 Bars = 2'-11"

Note:  
See sheets 4 & 5 of 13 for Wall Elevations A-A, B-B & C-C.  
See sheet 5 of 13 for Sections D-D and E-E.  
Bars h7 thru h9 are detailed on sheet 2 of 13.  
Bars indicated thus 7x2-#5 etc. indicates 7 lines of bars with 2 lengths per line.

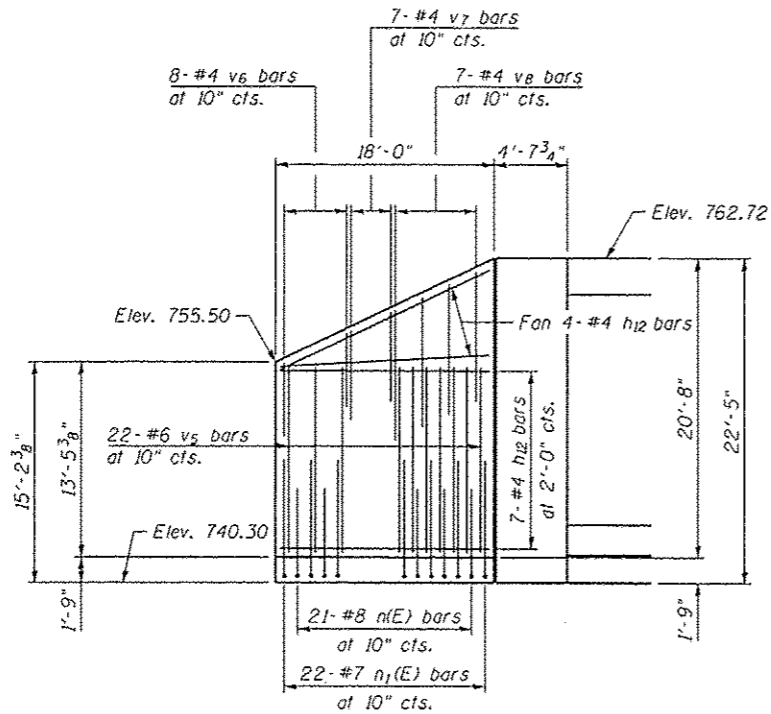
FILE NAME: C:\projects\mca\mca.dwg  
 USER: mca  
 PLOT DATE: 05/24/2013

Coombe-Bloxdorf P.C. CIVIL ENGINEERS STRUCTURAL ENGINEERS LAND SURVEYORS Design Firm License No. 104-002703	USER NAME: mca	DESIGNED: RKM	REVISED:
	PLOT SCALE: 1/8" = 1'-0"	CHECKED: AMC, MCB	REVISED:
	PLOT DATE: 05/24/2013	DRAWN: CFC, MML	REVISED:
		DATE: 5-24-2013	REVISED:

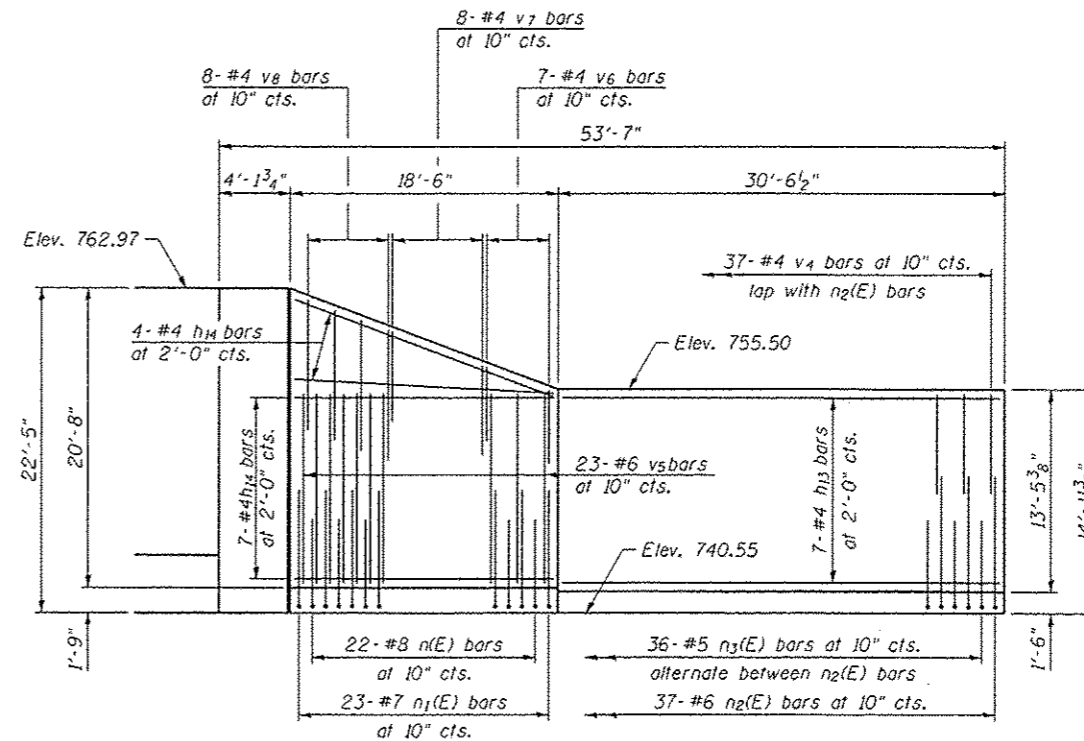
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOOTING LAYOUT  
STRUCTURE NO. 048-6062  
SHEET NO. 3 OF 13 SHEETS

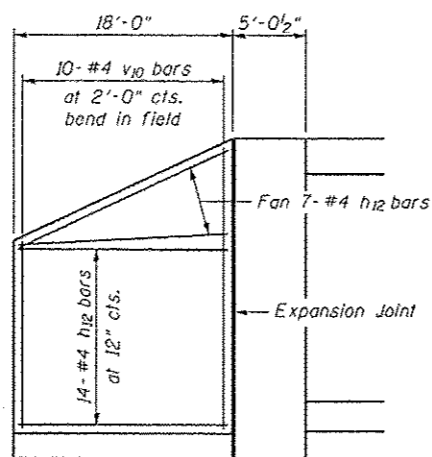
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-65	KNOX	269	110
CONTRACT NO. 89419				
ILLINOIS FED. AID PROJECT				



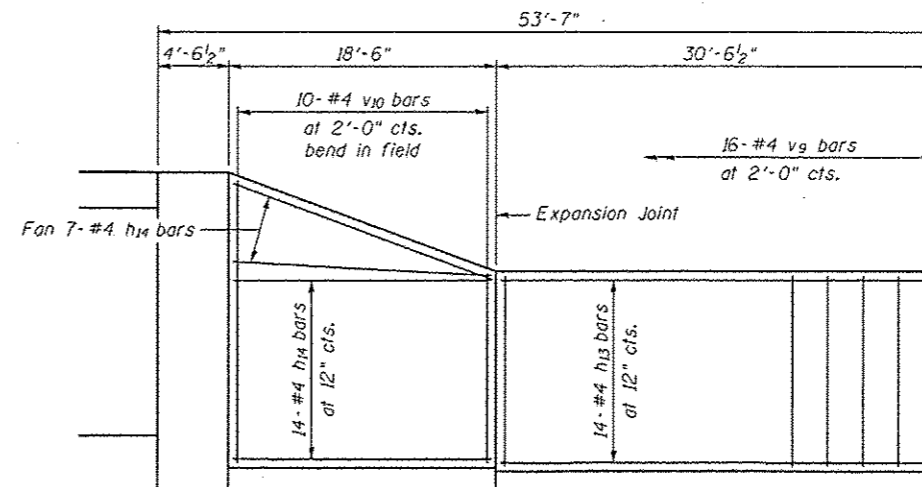
**ELEVATION A-A NORTH WEST RETAINING WALL**  
(Showing Back Face Reinforcement - Dimensions along back face)



**ELEVATION B-B NORTH EAST RETAINING WALL**  
(Showing Back Face Reinforcement - Dimensions along back face)



**ELEVATION A-A NORTH WEST RETAINING WALL**  
(Showing Front Face Reinforcement - Dimensions along front face)



**ELEVATION B-B NORTH EAST RETAINING WALL**  
(Showing Front Face Reinforcement - Dimensions along front face)

Note:  
See Sheet 5 of 13  
for Expansion and  
Construction Joints.

FILE NAME: C:\Users\mcb\OneDrive\Documents\137478\8662-54(19-084-vall)-wall-001.dgn  
PROJECT ID: 137478

**Coombe-Blaxdell P.C.**  
CIVIL ENGINEERS  
STRUCTURAL ENGINEERS  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME: mcb  
DESIGNED: RKM  
CHECKED: AMC, MCB  
DRAWN: CFC, MML  
DATE: 5-24-2013

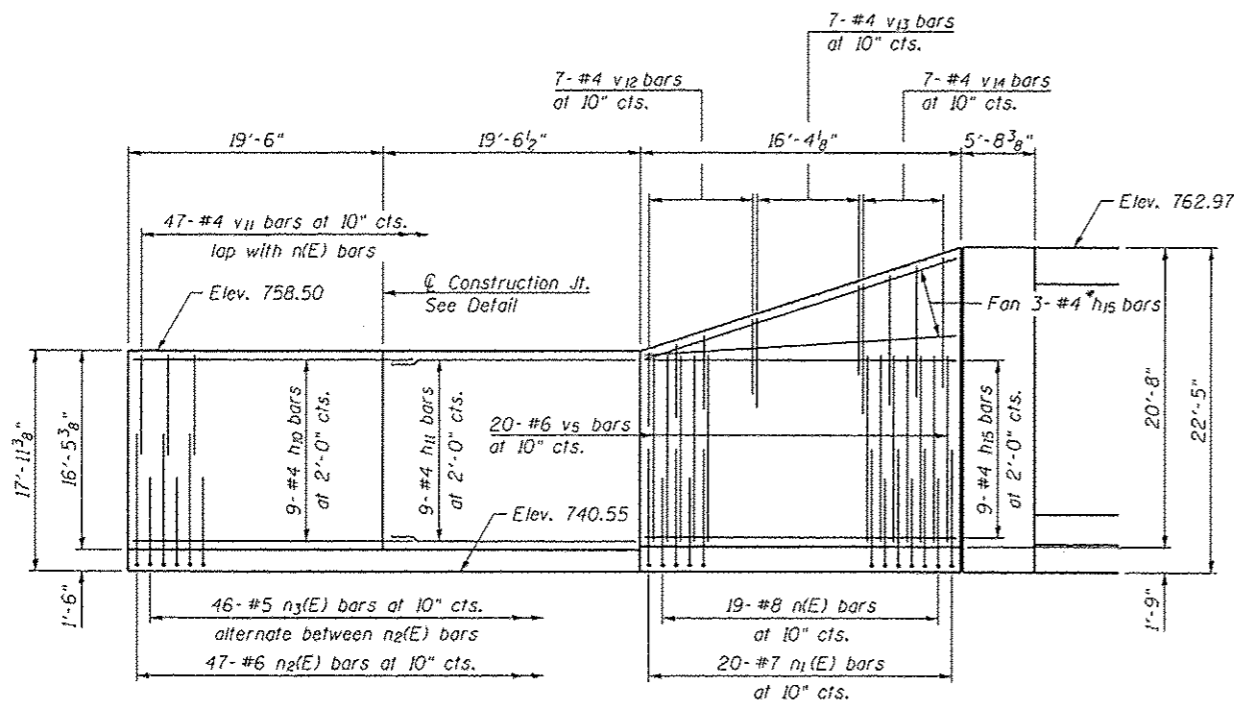
REVISOR: -  
REVISION: -  
REVISOR: -  
REVISION: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WALL ELEVATIONS  
STRUCTURE NO. 048-6062

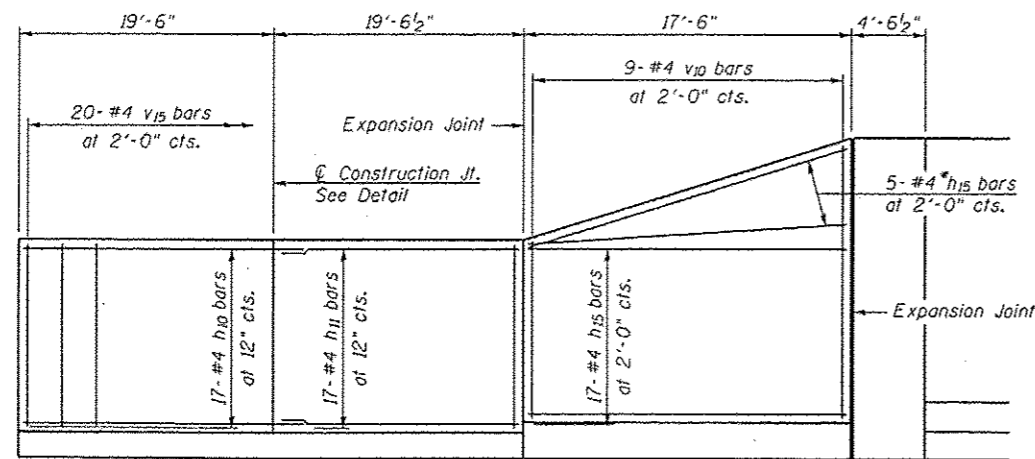
SHEET NO. 4 OF 13 SHEETS

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CONTRACT NO. 89419				
ILLINOIS FED. AID PROJECT				



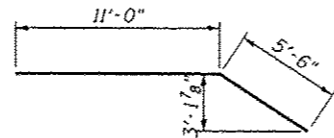
**ELEVATION C-C SOUTH EAST RETAINING WALL**  
(Showing Back Face Reinforcement - Dimensions along Back Face)

\* h<sub>15</sub> bars will need field adjustment to fit

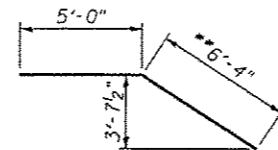


**ELEVATION C-C SOUTH EAST RETAINING WALL**  
(Showing Front Face Reinforcement - Dimensions along Front Face)

**MIN. BAR LAP**  
#4 bars = 2'-1"

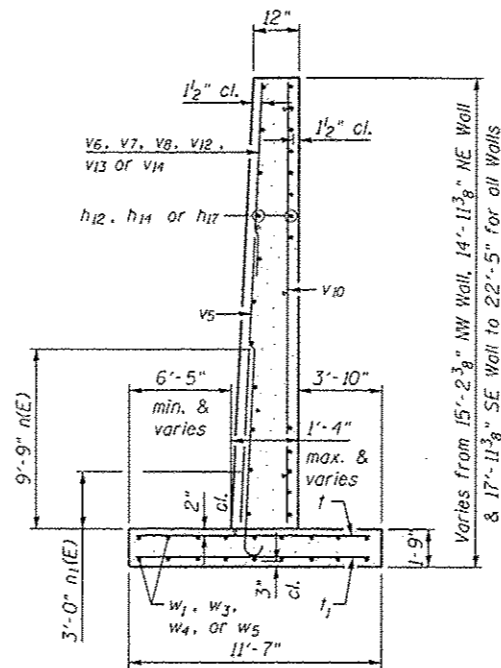


**BAR h<sub>15</sub>**



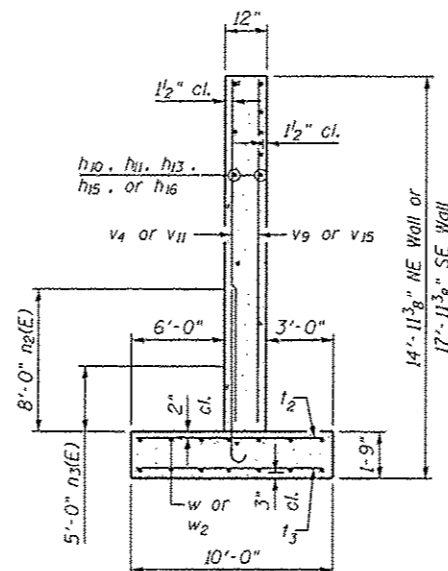
**BAR w<sub>5</sub>**

\*\* Cut in field to fit

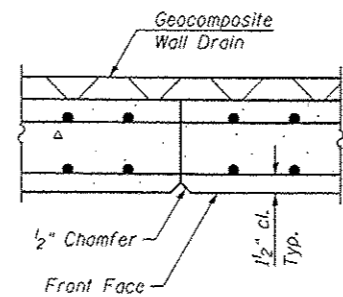


**SECTION D-D**

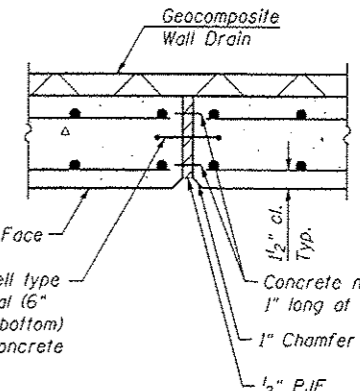
Maximum calculated equivalent bearing pressure = 3.5 kips/sq ft



**SECTION E-E**

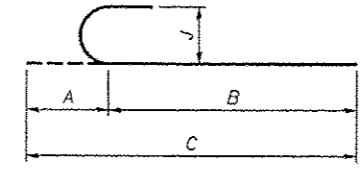


**CONSTRUCTION JOINT**



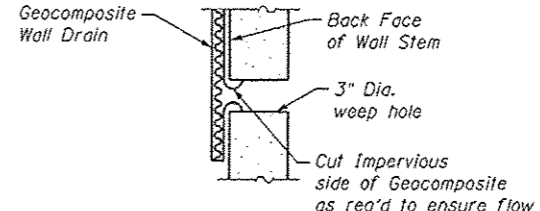
**EXPANSION JOINT**

6" Hollow bulb dumbbell type nonmetallic water seal (6" from top of wall to bottom) Cost included with Concrete Structures

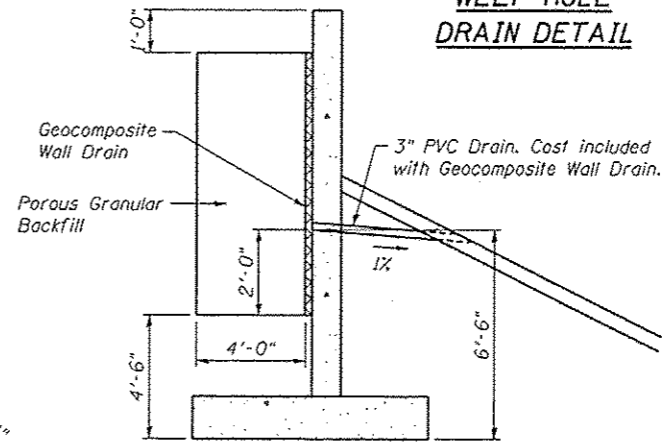


**BARS n(E), n<sub>1</sub>(E), n<sub>2</sub>(E) & n<sub>3</sub>(E)**

Bar	Size	A	B	C	J
n(E)	#8	11"	11'-3"	12'-2"	8"
n <sub>1</sub> (E)	#7	10"	4'-6"	5'-4"	7"
n <sub>2</sub> (E)	#6	8"	9'-3"	9'-11"	6"
n <sub>3</sub> (E)	#5	7"	6'-3"	6'-10"	5"



**WEEP HOLE DRAIN DETAIL**



**WEEP HOLE DETAIL**

Weep hole spacing shall be ±8'-0" cts. horizontally

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h <sub>10</sub>	26	#4	22'-0"	—
h <sub>11</sub>	26	#4	19'-2"	—
h <sub>12</sub>	32	#4	17'-8"	—
h <sub>13</sub>	21	#4	30'-3"	—
h <sub>14</sub>	32	#4	18'-1"	—
h <sub>15</sub>	34	#4	16'-6"	—
n(E)	62	#8	12'-2"	—
n <sub>1</sub> (E)	65	#7	5'-4"	—
n <sub>2</sub> (E)	84	#6	9'-11"	—
n <sub>3</sub> (E)	82	#5	6'-10"	—
I	95	#7	11'-3"	—
I <sub>1</sub>	95	#6	11'-3"	—
I <sub>2</sub>	120	#6	9'-8"	—
I <sub>3</sub>	93	#5	9'-8"	—
v <sub>4</sub>	37	#4	7'-3"	—
v <sub>5</sub>	65	#6	10'-9"	—
v <sub>6</sub>	15	#4	6'-9"	—
v <sub>7</sub>	15	#4	9'-0"	—
v <sub>8</sub>	15	#4	11'-6"	—
v <sub>9</sub>	16	#4	13'-2"	—
v <sub>10</sub>	29	#4	20'-4"	—
v <sub>11</sub>	47	#4	10'-0"	—
v <sub>12</sub>	7	#4	8'-6"	—
v <sub>13</sub>	7	#4	10'-3"	—
v <sub>14</sub>	7	#4	11'-5"	—
v <sub>15</sub>	20	#4	16'-2"	—
w	28	#5	20'-10"	—
w <sub>1</sub>	16	#5	10'-7"	—
w <sub>2</sub>	14	#5	30'-2"	—
w <sub>3</sub>	16	#5	18'-2"	—
w <sub>4</sub>	16	#5	17'-8"	—
w <sub>5</sub>	16	#5	11'-4"	—
Concrete Structures			Cu. Yd.	156.9
Reinforcement Bars			Pound	13,090
Reinforcement Bars, Epoxy Coated			Pound	4560
Structure Excavation			Cu. Yd.	1117

Reinforcement bars designated (E) shall be epoxy coated.

FILE NAME: c:\pwworkspace\104-002703\104-002703.dwg  
DATE PLOTTED: 05/24/2013 10:00:00 AM  
PLOT SCALE: 1/8" = 1'-0"

**Coombe-Bloxdorf P.C.**  
CIVIL ENGINEERS  
STRUCTURAL ENGINEERS  
LAND SURVEYORS  
Design Firm License No. 184-002703

USER NAME: davis08878  
PLOT SCALE: 1/8" = 1'-0"  
PLOT DATE: 05/24/2013

DESIGNED - RKM  
CHECKED - AMC, MCB  
DRAWN - CFC, MML  
DATE - 5-24-2013

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WALL ELEVATIONS AND DETAILS  
STRUCTURE NO. 048-6062

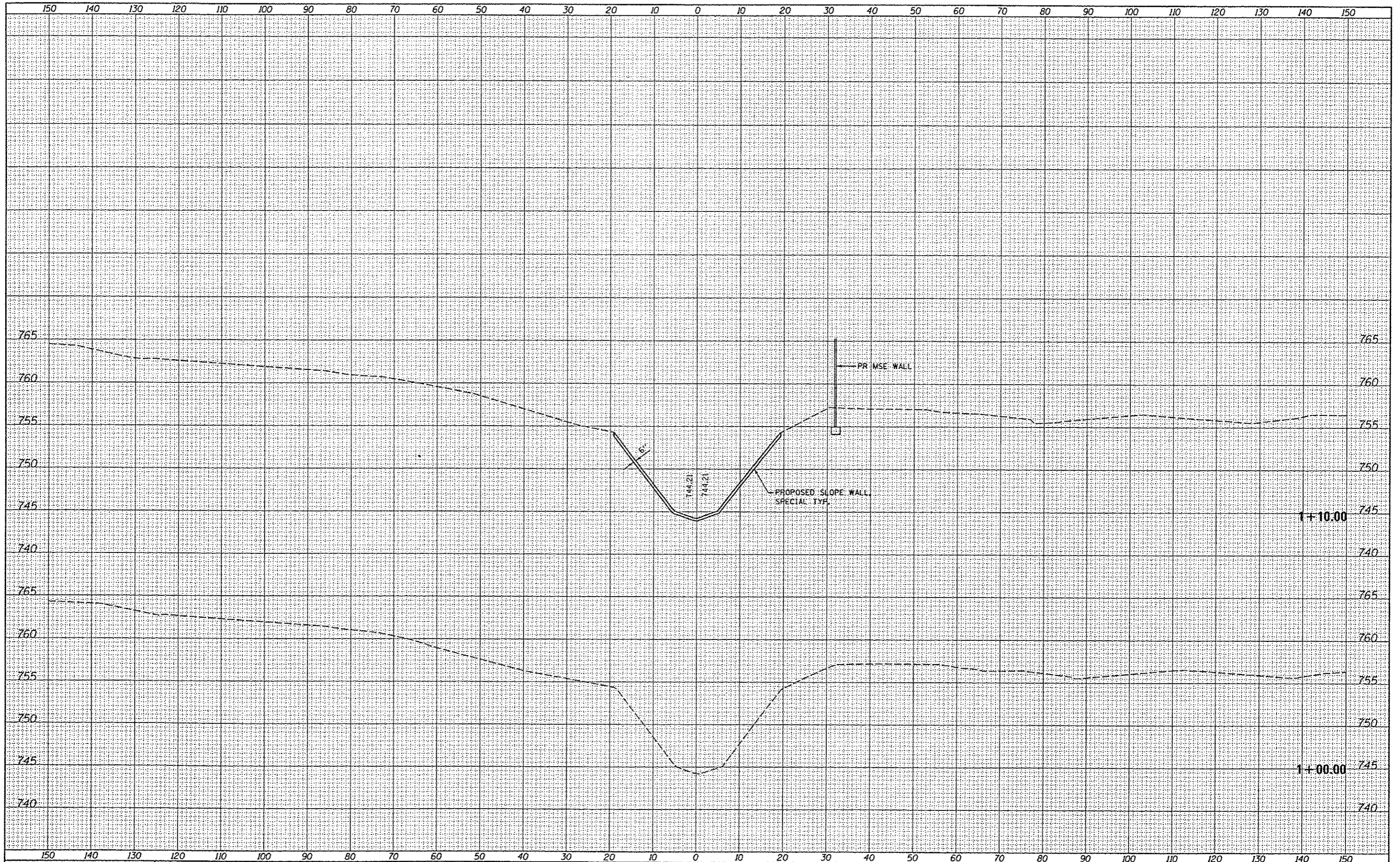
SHEET NO. 5 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	112

CONTRACT NO. 89419  
ILLINOIS FED. AID PROJECT

FINAL	DATE
SHEET	
NO.	
ISSUED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	

ORIGINAL	DATE
SHEET	
NO.	
ISSUED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	



FILE NAME *	USER NAME *	DESIGNED -	REVISED -	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET
c:\pwise\work\do_not_delete\08130747\0480062-0419-006-channel-cross-sections.dgn	doxxx00070	GLS	-	6799	05-00501-21-GS	KNOX	269
SHEET 1	PLOT SCALE *	CHECKED -	REVISED -	6800			113
CB PROJECT NO 10002	PLOT DATE *	DATE -	REVISED -	6801			CONTRACT NO.89419
		5/29/13	-				ILLINOIS FED. AID PROJECT

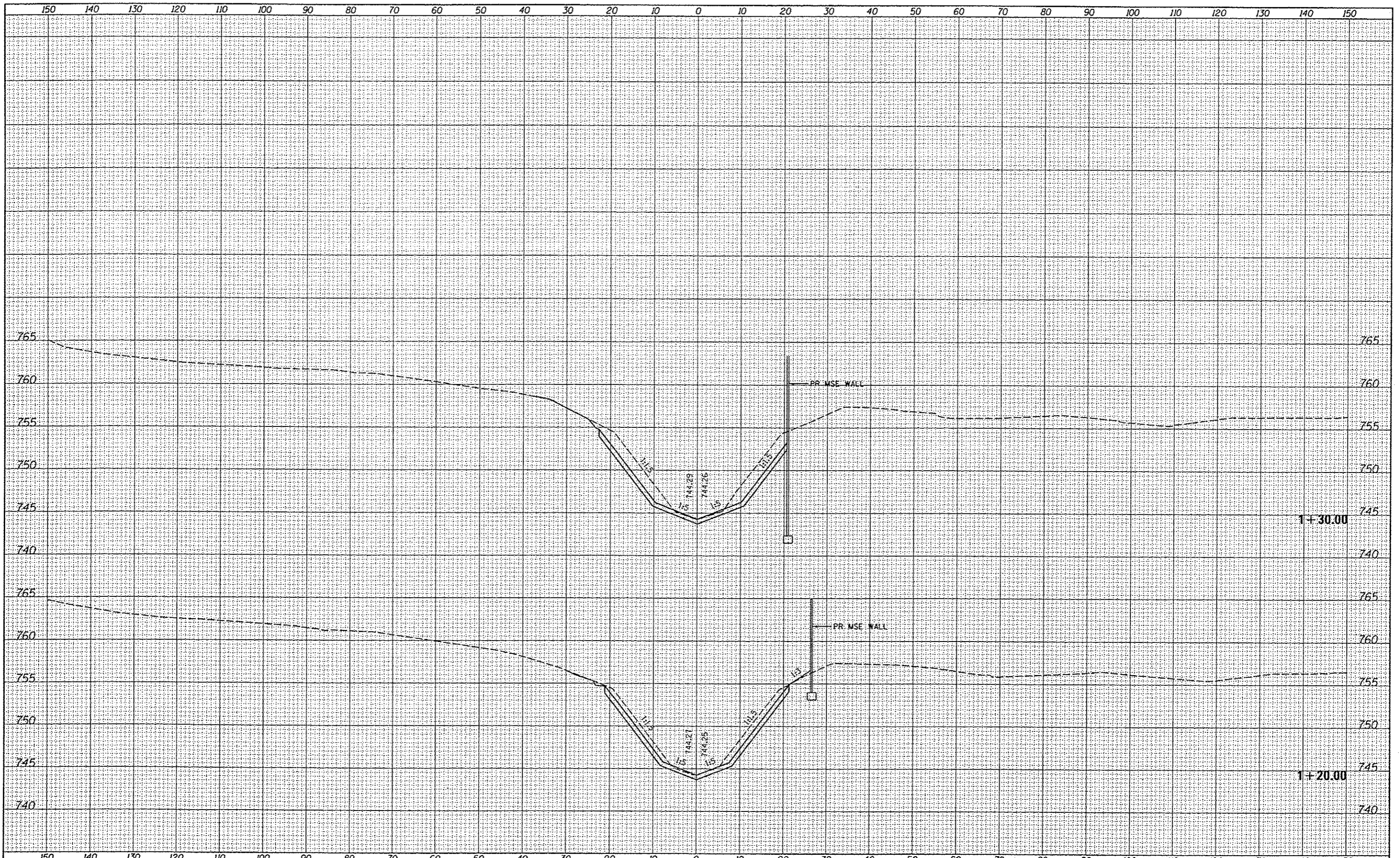
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CHANNEL CROSS SECTIONS  
STRUCTURE NO. 048-6062

SCALE: 1" = 10' SHEET 6 OF 13 SHEETS STA. 1+00.00 TO STA. 1+10.00

FINAL	SURVEYED	BY	DATE
SHEET	PLOTTED		
NOTE BOOK	TEMP. FILE		
NO.	AREAS CHECKED		

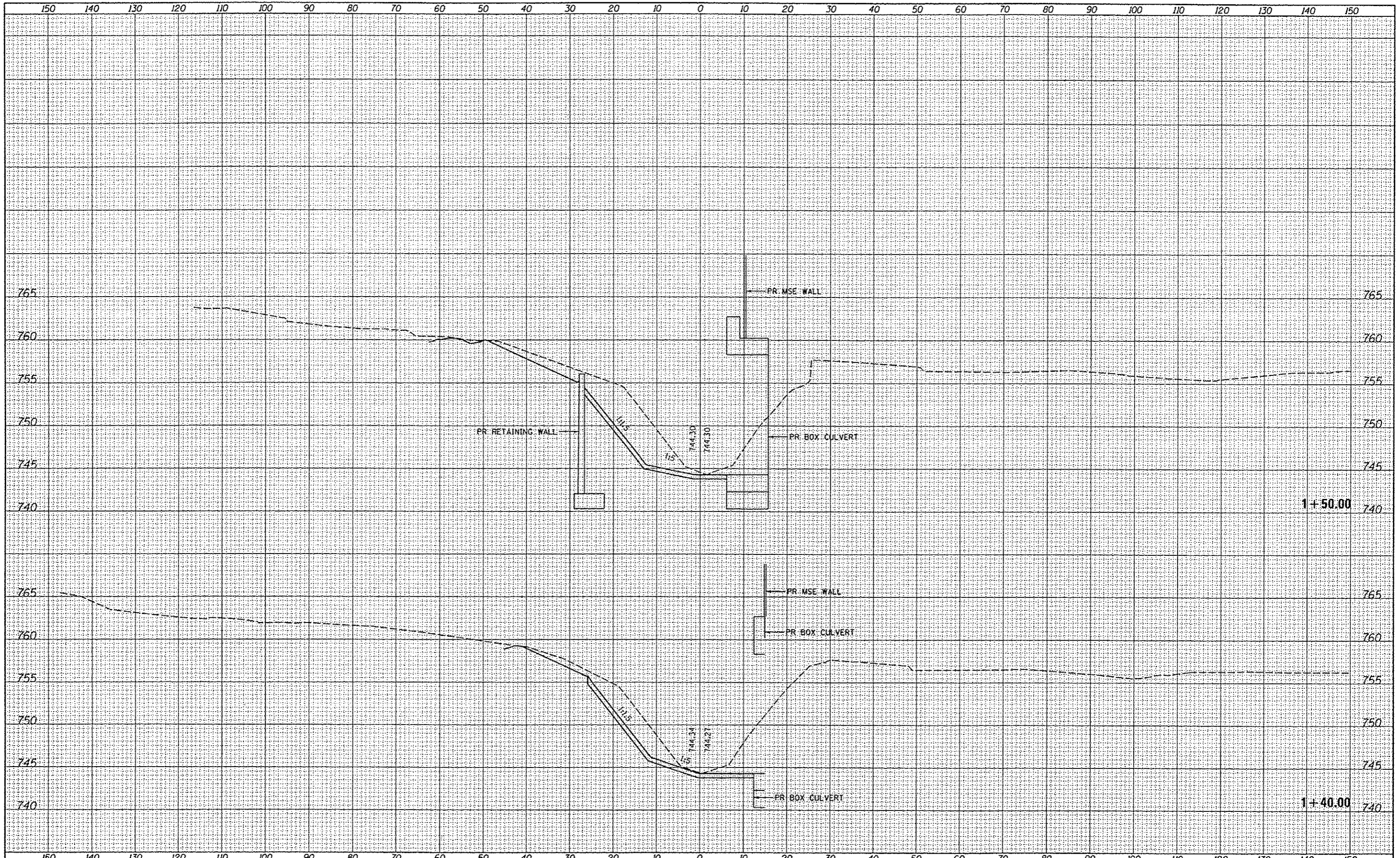
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SHEET	PLOTTED		
NOTE BOOK	TEMP. FILE		
NO.	AREAS CHECKED		



FILE NAME	USER NAME	DESIGNED	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CHANNEL CROSS SECTIONS STRUCTURE NO. 048-6062		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\work\do_not_delete\08130747\0486062-04	davis08078	GLS	-					6799	05-00501-21-GS	KNOX	269	114
Sheet-2	PLOT SCALE	CHECKED	REVISIONS					6800			CONTRACT NO. 89419	
CB PROJECT NO 10002	PLOT DATE	DATE	REVISIONS					6801			ILLINOIS FED. AID PROJECT	
		5/29/13	-			SCALE: 1" = 10'		SHEET 7 OF 13 SHEETS		STA. 1+20.00 TO STA. 1+30.00		

DATE	
BY	
APPROVED	
REVISIONS	
NO.	
DATE	
BY	
APPROVED	
REVISIONS	
NO.	
DATE	
BY	
APPROVED	
REVISIONS	
NO.	

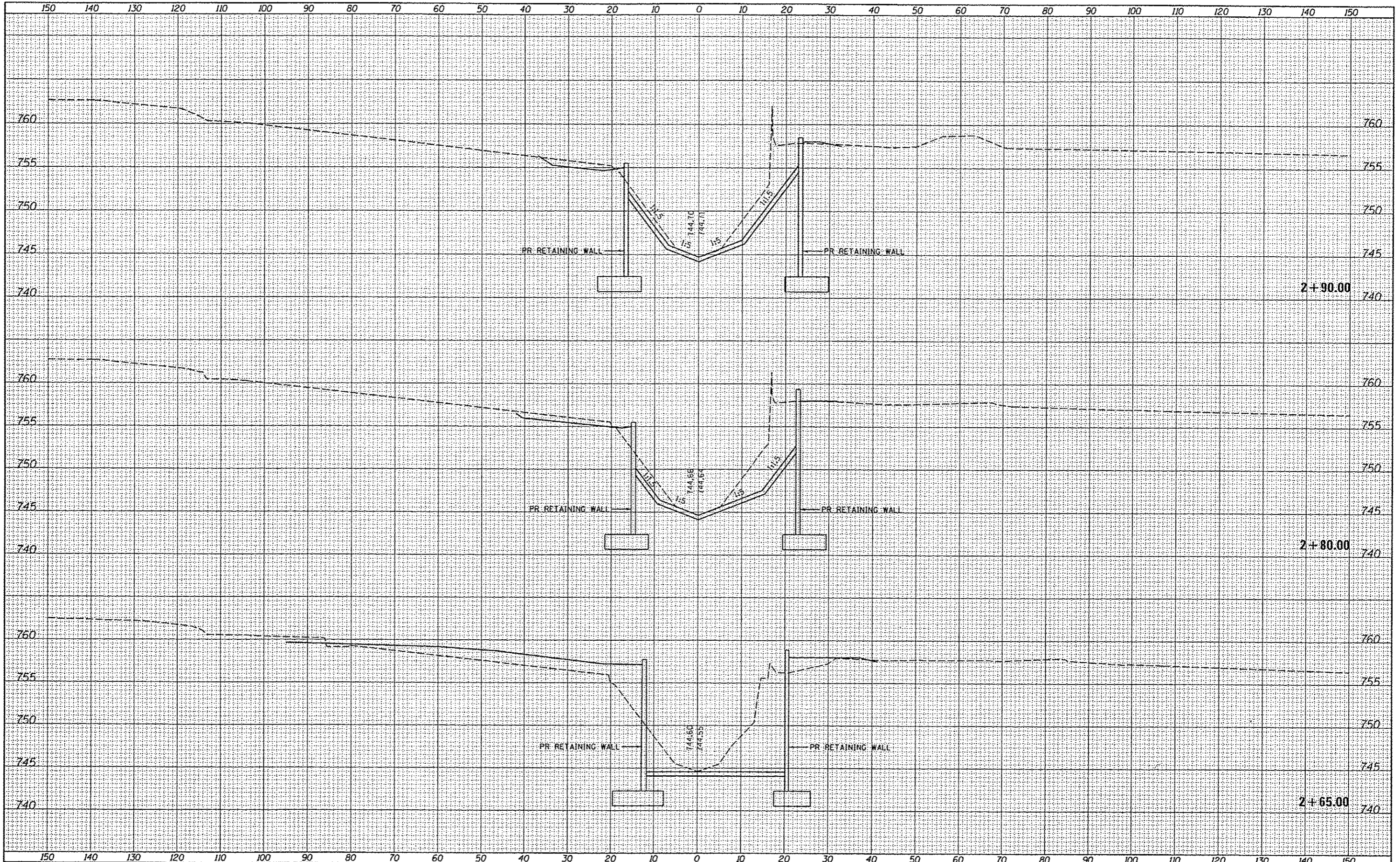
DATE	
BY	
APPROVED	
REVISIONS	
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DATE	
BY	
APPROVED	
REVISIONS	
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DATE	
BY	
APPROVED	
REVISIONS	
NO.	



FILE NAME	USER NAME	DESIGNED	REVISIONS	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CHANNEL CROSS SECTIONS</b> <b>STRUCTURE NO. 048-6062</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET	
cl:\pwwork\do_not_delete\01387471\0486062-0419-006-channel-cross-sections.dgn	do-no00878	DRAWN	REVISIONS			6799	05-00501-21-05	KNOX	269	115
Sheet-3	PLOT SCALE	CHECKED	REVISIONS			6800				
CB PROJECT NO 10092	PLOT DATE	DATE	REVISIONS			6801				
						SCALE: 1" = 10'    SHEET 8 OF 13 SHEETS    STA. 1+40.00 TO STA. 1+50.00				
						CONTRACT NO. 89419 ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
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REVISIONS	
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REVISIONS	
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BY	
REVISIONS	
NO.	

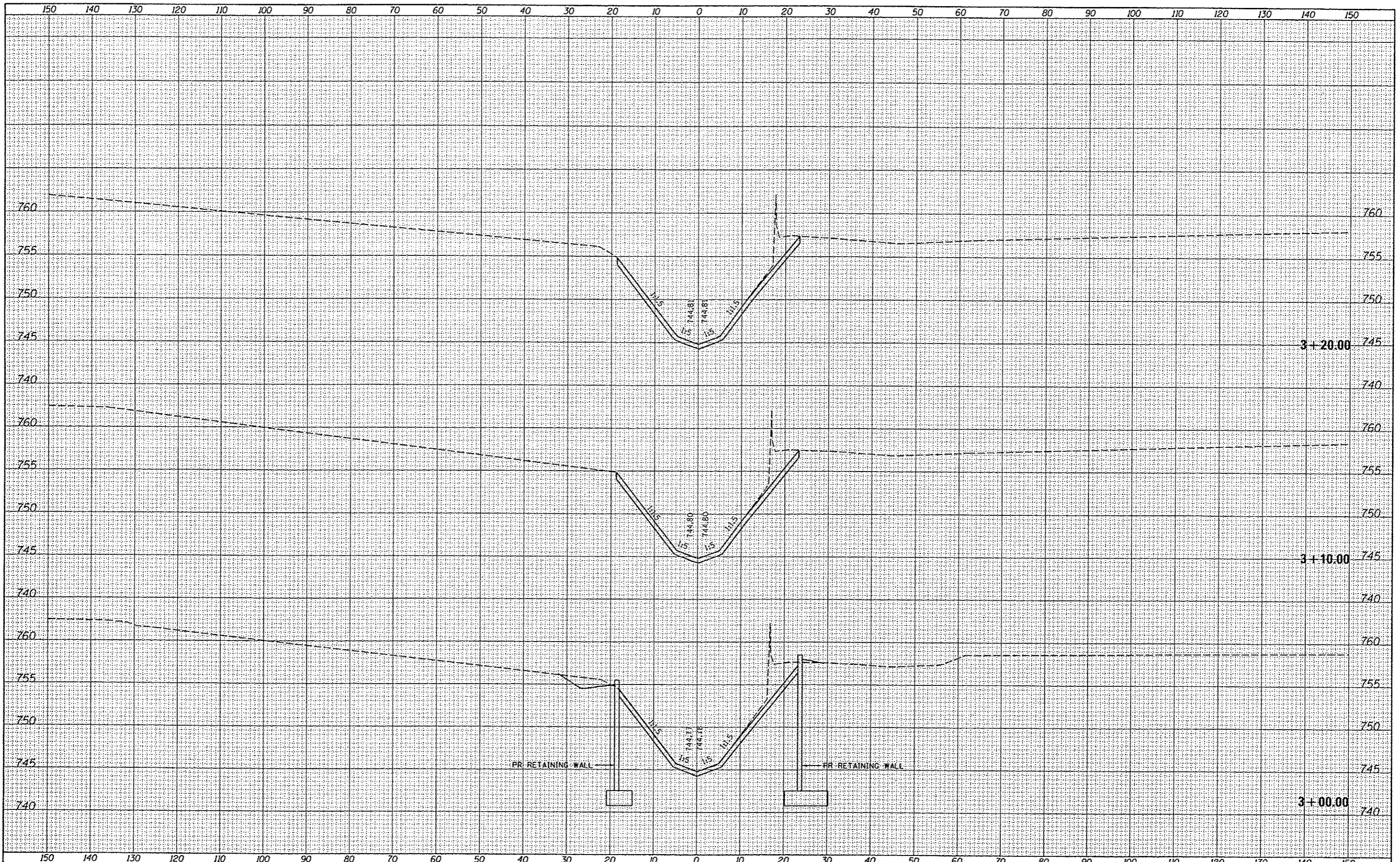


FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CHANNEL CROSS SECTIONS</b> <b>STRUCTURE NO. 048-6062</b>	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
419-006-channel-cross-sections.dgn	douglas0078	- GLS	-			6799	05-00501-21-GS	KNOX	269	116
PLOT SCALE = 28.000000 1/ in.	CHECKED	- GLS	-			6800				CONTRACT NO.89419
PLOT DATE = 05/29/2013	DATE	- 5/29/13	-			6801				ILLINOIS FED. AID PROJECT
CB PROJECT NO 10002					SCALE: 1" = 10'	SHEET 9	OF 13 SHEETS	STA. 2+65.00	TO STA. 2+90.00	



BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

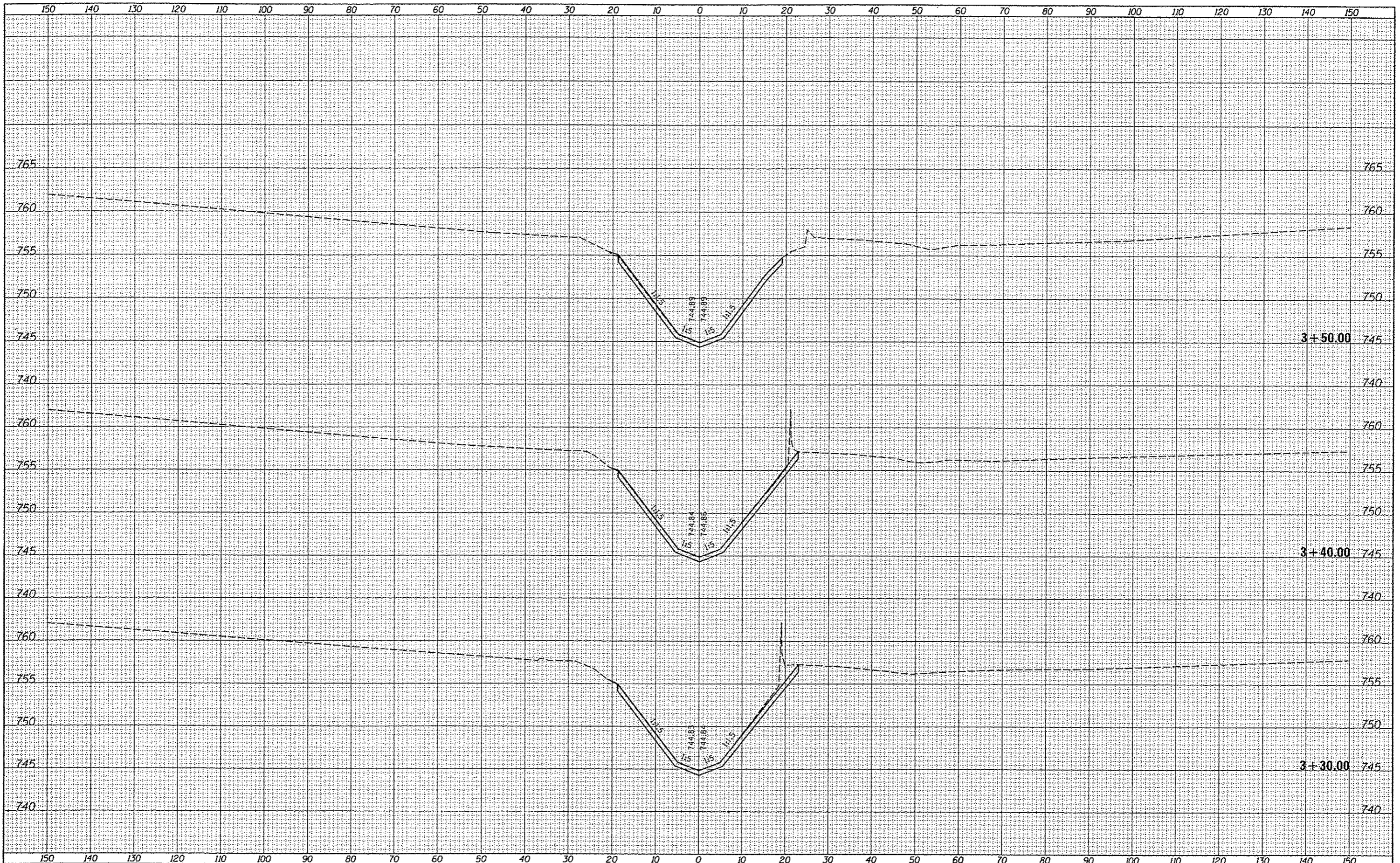
BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CHANNEL CROSS SECTIONS STRUCTURE NO. 048-6062		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
419-006-channel-cross-sections.dgn	davis00078	- GLS	-					6799	05-00501-21-05	KNOX	269	117
Sheet 5	PLT SCALE	CHECKED	REVISED	SCALE: 1" = 10'		SHEET 10 OF 13 SHEETS		STA. 3+00.00 TO STA. 3+20.00		CONTRACT NO. 89419		
CB PROJECT NO 18802	28.000000' / 1"	- GLS	-									
	PLT DATE	DATE	REVISED	ILLINOIS FED. AID PROJECT								
	05/29/2013	5/29/13	-									

FILE NO.	
SURVEY	
PLOTTED	
DATE	
BY	
NOTE BOOK	
NO.	
AREAS CHECKED	

FILE NO.	
SURVEY	
PLOTTED	
DATE	
BY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME	USER NAME	DESIGNED	REVIS	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CHANNEL CROSS SECTIONS</b> <b>STRUCTURE NO. 048-6062</b>		F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwise\work\do_not_delete\0130747\04806062-0	doug00078	GLS	-		6799	05-00501-21-GS	KNOX	269	118		
Sheet: 6	119-000-channel-cross-sections.dgn	DRAWN	-		6800						
CONTRACT NO. 10002	PLOT SCALE = 20.000000' / in.	CHECKED	-		6801						
	PLOT DATE = 05/29/13	DATE	- 5/29/13		SCALE: 1" = 10'	SHEET 11 OF 13 SHEETS	STA. 3+30.00 TO STA. 3+50.00	ILLINOIS FED. AID PROJECT			

**Wang Engineering, Inc.**  
 Consulting Geotechnical and Environmental Engineers  
 wangeng@wangeng.com  
 1145 N Main Street  
 Lombard, IL 60148  
 Telephone: 630 953-9928  
 Fax: 630 953-9938

**BORING LOG SB-23**  
 WEI Job No.: 410-05-02

Datum: NGVD  
 Elevation: 766.40 ft  
 North: 1560759.10 ft  
 East: 2241940.72 ft  
 Station: 121+00.00  
 Offset: 30.7 RT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
723.2	15-inch thick black SILTY LOAM --TOPSOIL--														
723.2	Medium stiff to stiff, brown SILTY CLAY --FILL--	1	X	2	3	1.25	21	723.4	Medium dense, gray SILTY LOAM	30	X	11	5	3.04	17
		4													
		5													
		2	X	3	2	0.75	P								
		3	X	4	2										
716.9	Medium stiff to stiff, gray SILTY CLAY LOAM	3	X	3	3	1.00	B	721.7	Very stiff to hard, gray CLAY	35	X	13	8	3.20	18
		4	X	4	2	0.90	B								
		10	X	5	3	1.30	P								
		15	X	6	3	1.04	B								
		15	X	7	4	1.04	B								
710.9	Medium dense, gray, fine SANDY LOAM	7	X	4	7	NP	19								
		7	X	7	7										
706.4	Very stiff, gray CLAY LOAM	8	X	3	4	2.21	B								
		20	X	8	4	2.21	B								
		9	X	4	5	2.21	B								
		15	X	8	8										
723.2	Very stiff, gray CLAY	10	X	6	7	2.71	B								
		25	X	10	7										
		60	X	18	7	4.10	B								

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-20-2009	Complete Drilling	05-20-2009	While Drilling	7	13.00 ft	
Drilling Contractor	Whitney & Assoc. Inc.	Drill Rig	Diedrich D-50 ATV	At Completion of Drilling	7	11.00 ft	
Driller	Tim	Logger	B. Wilson	Time After Drilling		NA	
Checked by	E. Datz	Depth to Water		7	NA		
Drilling Method	3.25-inch IDA HSA. Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

**Wang Engineering, Inc.**  
 Consulting Geotechnical and Environmental Engineers  
 wangeng@wangeng.com  
 1145 N Main Street  
 Lombard, IL 60148  
 Telephone: 630 953-9928  
 Fax: 630 953-9938

**BORING LOG SB-23**  
 WEI Job No.: 410-05-02

Datum: NGVD  
 Elevation: 766.40 ft  
 North: 1560759.10 ft  
 East: 2241940.72 ft  
 Station: 121+00.00  
 Offset: 30.7 RT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
722.4	Medium dense to very dense, gray, medium to coarse SAND	17	X	5	12	NP	21								
		14													
		18	X	8	14	NP	10								
		14													
		51													
606.4	Boring terminated at 60.00 ft	60													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	05-20-2009	Complete Drilling	05-20-2009	While Drilling	7	13.00 ft	
Drilling Contractor	Whitney & Assoc. Inc.	Drill Rig	Diedrich D-50 ATV	At Completion of Drilling	7	11.00 ft	
Driller	Tim	Logger	B. Wilson	Time After Drilling		NA	
Checked by	E. Datz	Depth to Water		7	NA		
Drilling Method	3.25-inch IDA HSA. Boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types. The actual transition may be gradual.			

FILE NAME: c:\pwworking\cib-no-no-ud\file\05030747\_0466882-8414-012-bor-log-01.dgn  
 PROJECT NO:

**Coombe-Bloxdorf P.C.**  
 CIVIL ENGINEERS  
 STRUCTURAL ENGINEERS  
 LAND SURVEYORS  
 Design Firm License No. 184-006703

USER NAME = davis08878	DESIGNED - RKM	REVISED -
CHECKED - AMC, MCB	REVISED -	
PLOT SCALE = 0:2,000/800 1/4" = 1'	DRAWN - CFC, MML	REVISED -
PLOT DATE = 05/29/2013	DATE = 5-24-2013	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BORING LOGS**  
 STRUCTURE NO. 048-6062

SHEET NO. 12 OF 13 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	119
CONTRACT NO. 89419				

ILLINOIS FED. AID PROJECT

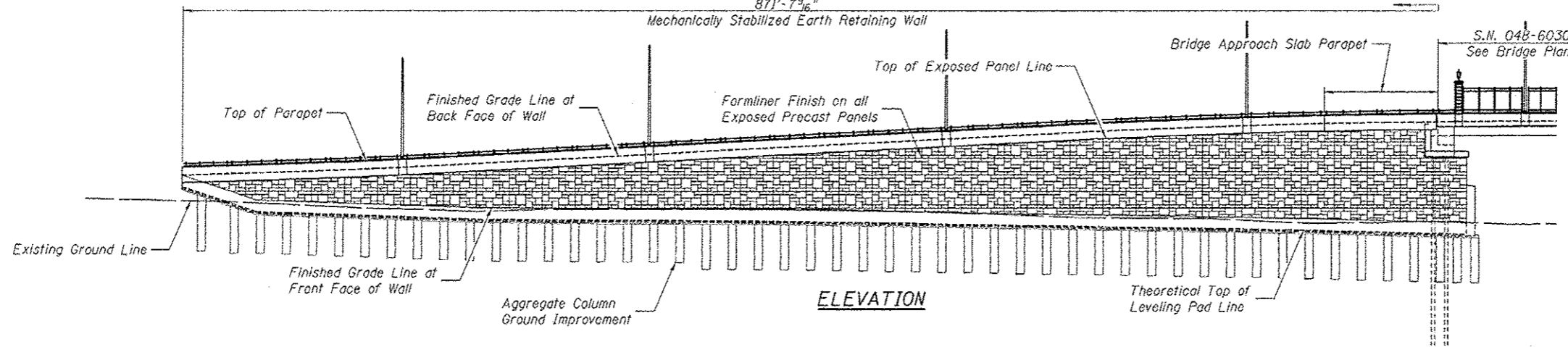


Bench Mark: Chiseled 'x' on cap bolt of Fire Hydrant in N.E. Quadrant of the Seminary St. and Grove St. Intersection. Elev. 764.29

Existing Structure: None

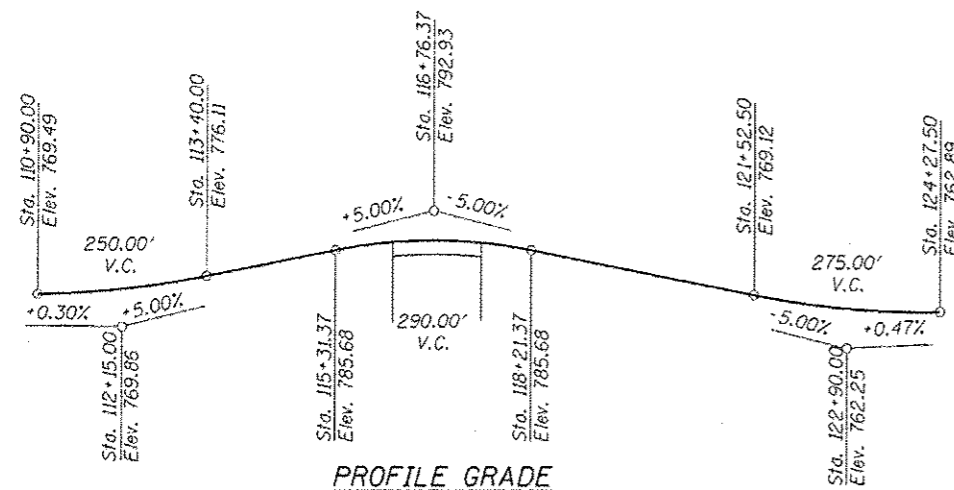
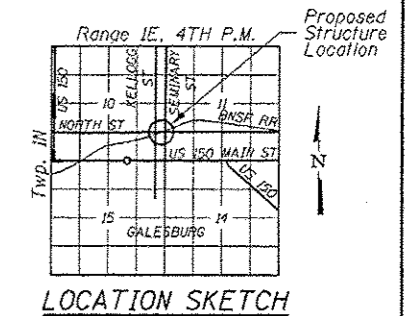
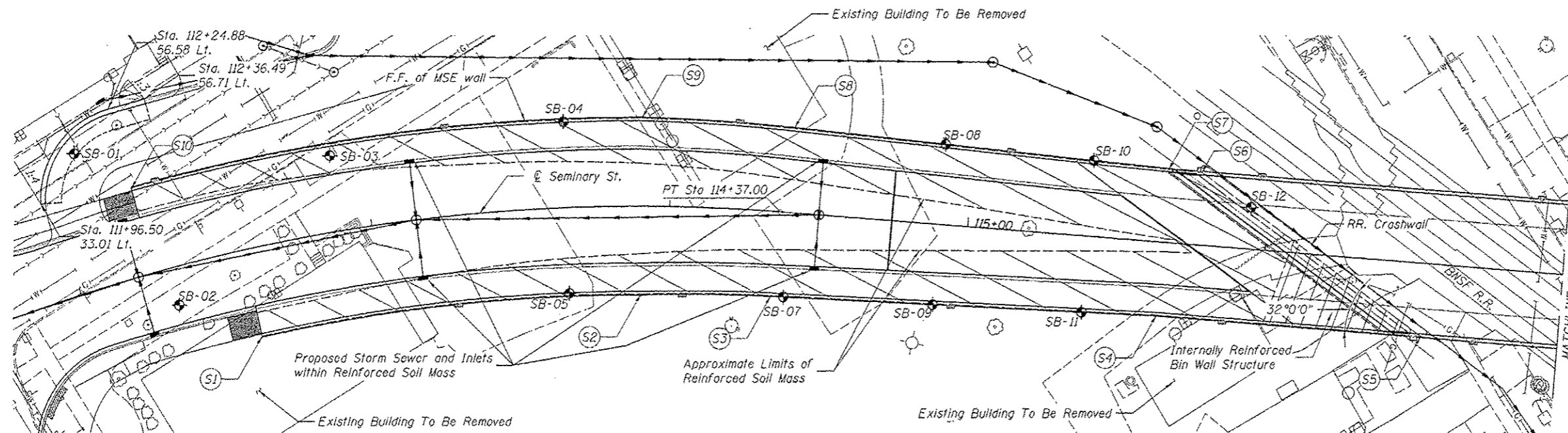
South Wall S.N. 048-8503 - See Unfolded Elevation View on Sheet 4 of 32

LAYOUT	5/25/12
DRAWN	5/29/13
REVIEWED	5/29/13



POINT	STATION	OFFSET
S1	112+56.20	29.25 Rt.
S2	113+90.56	29.25 Rt.
S3	114+36.21	28.03 Rt.
S4	115+65.41	24.25 Rt.
S5	116+54.27	24.25 Rt.
S6	115+76.65	24.25 Lt.
S7	115+65.41	24.25 Lt.
S8	114+39.42	27.94 Lt.
S9	113+90.53	29.25 Lt.
S10	112+25.48	29.25 Lt.

**WALL CONTROL POINTS**  
Wall offsets are measured from @ Seminary St. to the front face of precast panels



ROBERT CHANTOME  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS  
081-006048  
July 2, 2013  
490 11/20/2013

I certify that to the best of my knowledge, information and belief, this retaining wall design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

**DESIGN STRESSES**

**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**PRECAST UNITS**  
f'c = 4,500 psi

**DESIGN SPECIFICATIONS**

MSE Wall  
2002 AASHTO  
Parapet and anchorage slab, driveway wall  
2012 AASHTO LRFD Bridge  
Design Specifications, 6th Edition

**SOUTH WALL GENERAL PLAN & ELEVATION**  
**SEMINARY ST./KELLOGG ST. RETAINING WALL - GALESBURG**  
**F.A.U. RTE 6801 - SEC. 05-00501-21-GS**  
**KNOX COUNTY**  
**STATION 111+96.50 TO 122+50.00**  
**STRUCTURE NOS. 048-8502 & 048-8503**



USER NAME	• chon128843	DESIGNED	- KMS	REVISED	-
CHECKED	- RCC	REVISIONS	-		
DRAWN	- KMS	REVISIONS	-		
CHECKED	- 5/29/13	REVISIONS	-		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOUTH WALL GENERAL PLAN & ELEVATION  
STRUCTURE NOS. 048-8502 & 048-8503

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	121
CONTRACT NO.			89419	

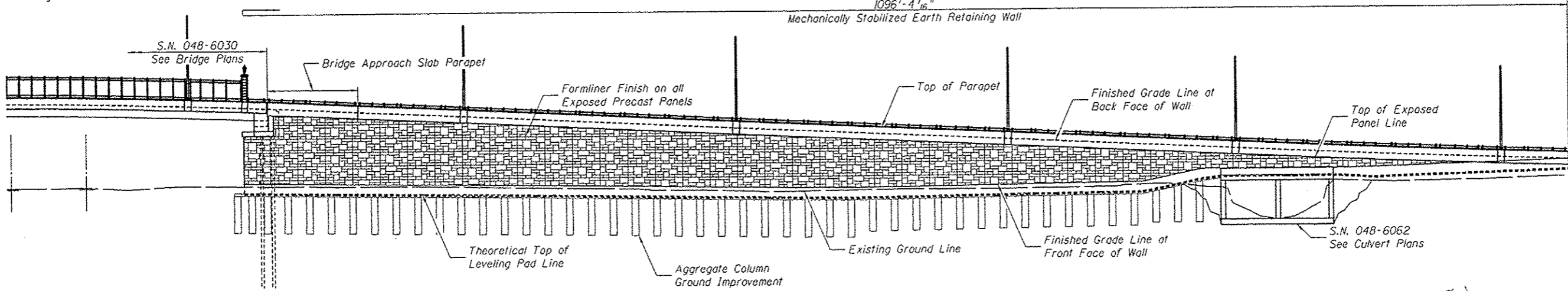
SHEET NO. 1 OF 32 SHEETS

ILLINOIS FED. AID PROJECT

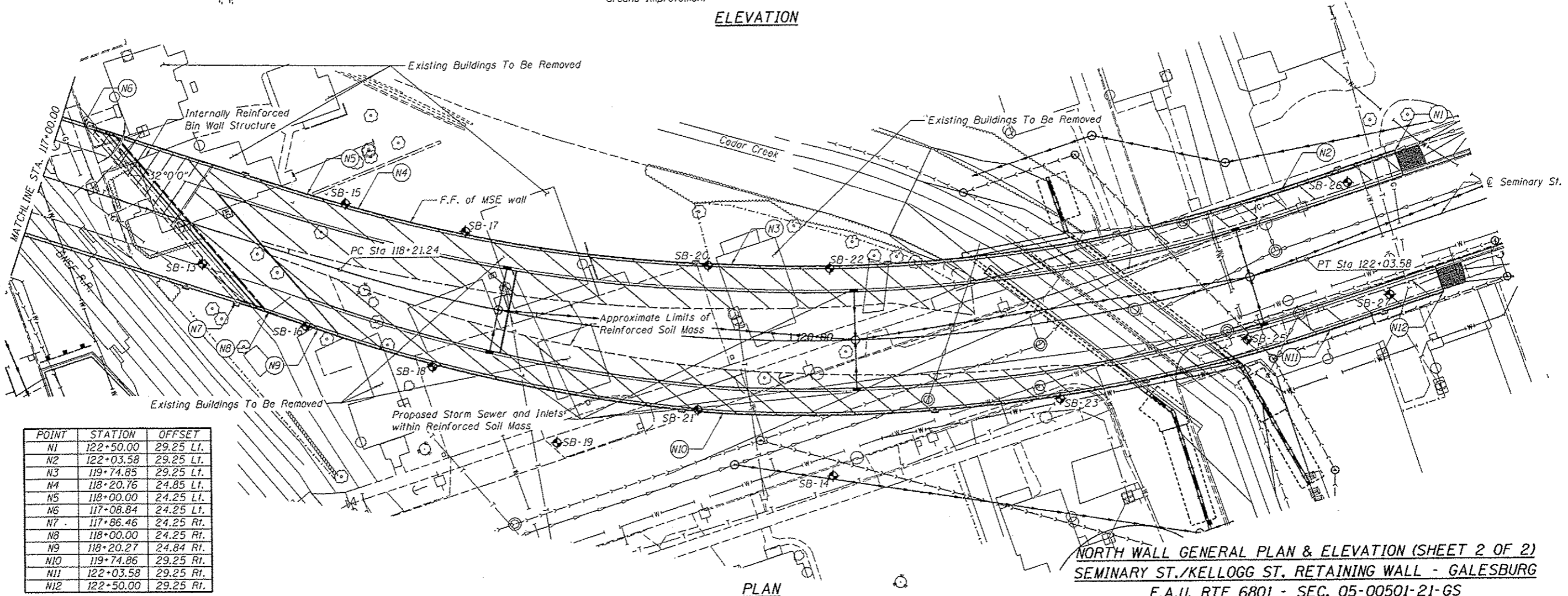
Bench Mark: Chiseled 'x' on cap bolt of Fire Hydrant  
in N.E. Quadrant of the Seminary St. and  
Grave St. intersection. Elev. 764.29

Existing Structure: None

North Wall S.N. 048-8502 - See Unfolded Elevation View on Sheets 5 & 6 of 32  
1096'-4 1/16"  
Mechanically Stabilized Earth Retaining Wall



**ELEVATION**



**PLAN**

POINT	STATION	OFFSET
N1	122+50.00	29.25 Lt.
N2	122+03.58	29.25 Lt.
N3	119+74.85	29.25 Lt.
N4	118+20.76	24.85 Lt.
N5	118+00.00	24.25 Lt.
N6	117+08.84	24.25 Lt.
N7	117+86.46	24.25 Rt.
N8	118+00.00	24.25 Rt.
N9	118+20.27	24.84 Rt.
N10	119+74.86	29.25 Rt.
N11	122+03.58	29.25 Rt.
N12	122+50.00	29.25 Rt.

**WALL CONTROL POINTS**

Wall offsets are measured from  $\odot$  Seminary St. to the front face of precast panels

**NORTH WALL GENERAL PLAN & ELEVATION (SHEET 2 OF 2)**  
**SEMINARY ST./KELLOGG ST. RETAINING WALL - GALESBURG**  
**F.A.U. RTE 6801 - SEC. 05-00501-21-GS**  
**KNOX COUNTY**  
**STATION 111+96.50 TO 122+50.00**  
**STRUCTURE NOS. 048-8502 & 048-8503**



USER NAME: dms08878	DESIGNED: KMS	REVISED: -
PLOT SCALE: 1/8" = 1'-0"	CHECKED: RGC	REVISED: -
PLOT DATE: 05/29/2013	DRAWN: KMS	REVISED: -
	CHECKED: 5/29/13	REVISED: -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**NORTH WALL GENERAL PLAN & ELEVATION**  
**STRUCTURE NOS. 048-8502 & 048-8503**

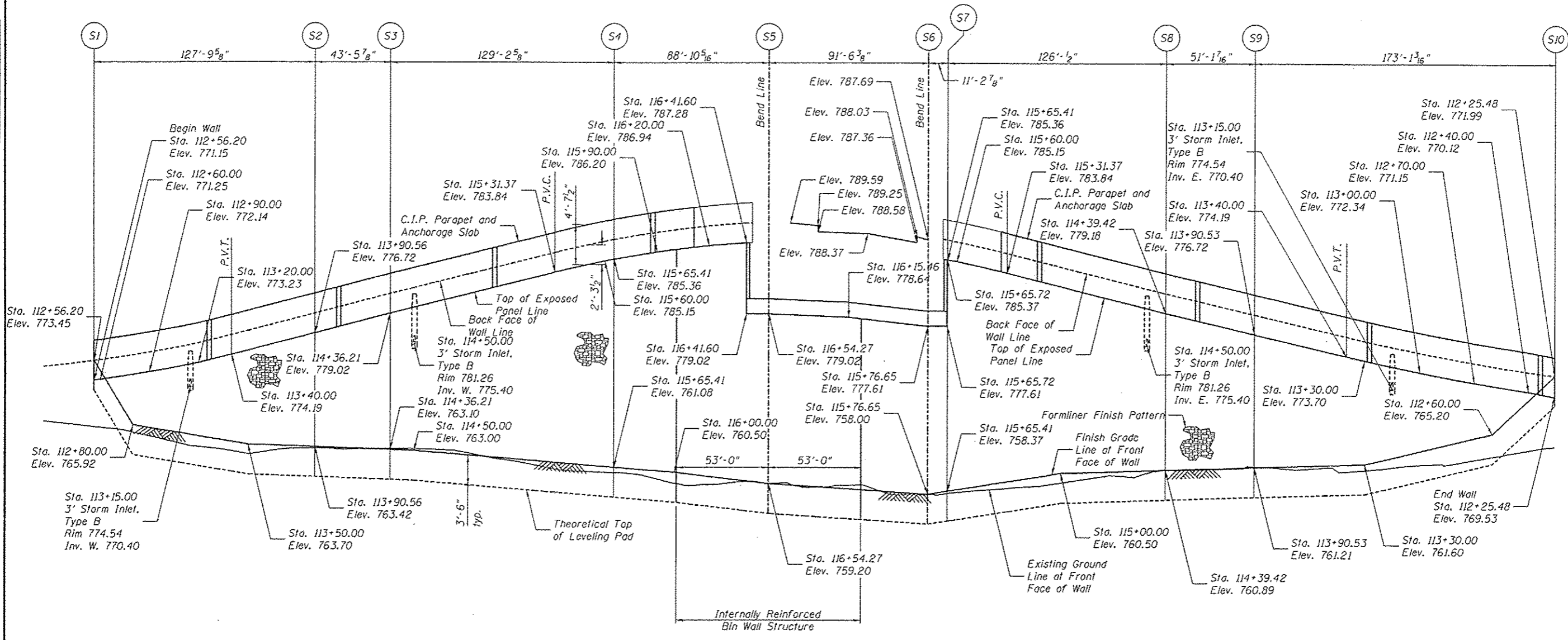
SHEET NO. 2 OF 32 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	122
			CONTRACT NO. 89419	
ILLINOIS FED. AID PROJECT				

FILE NAME: c:\projects\work\pds\1119650\1119650-05-00501-21-GS-MSE-Wall.dwg  
 Professional Design Firm License # 104-001084



LAYOUT	9/25/12
DRAWN	5/29/13
REVIEWED	5/29/13



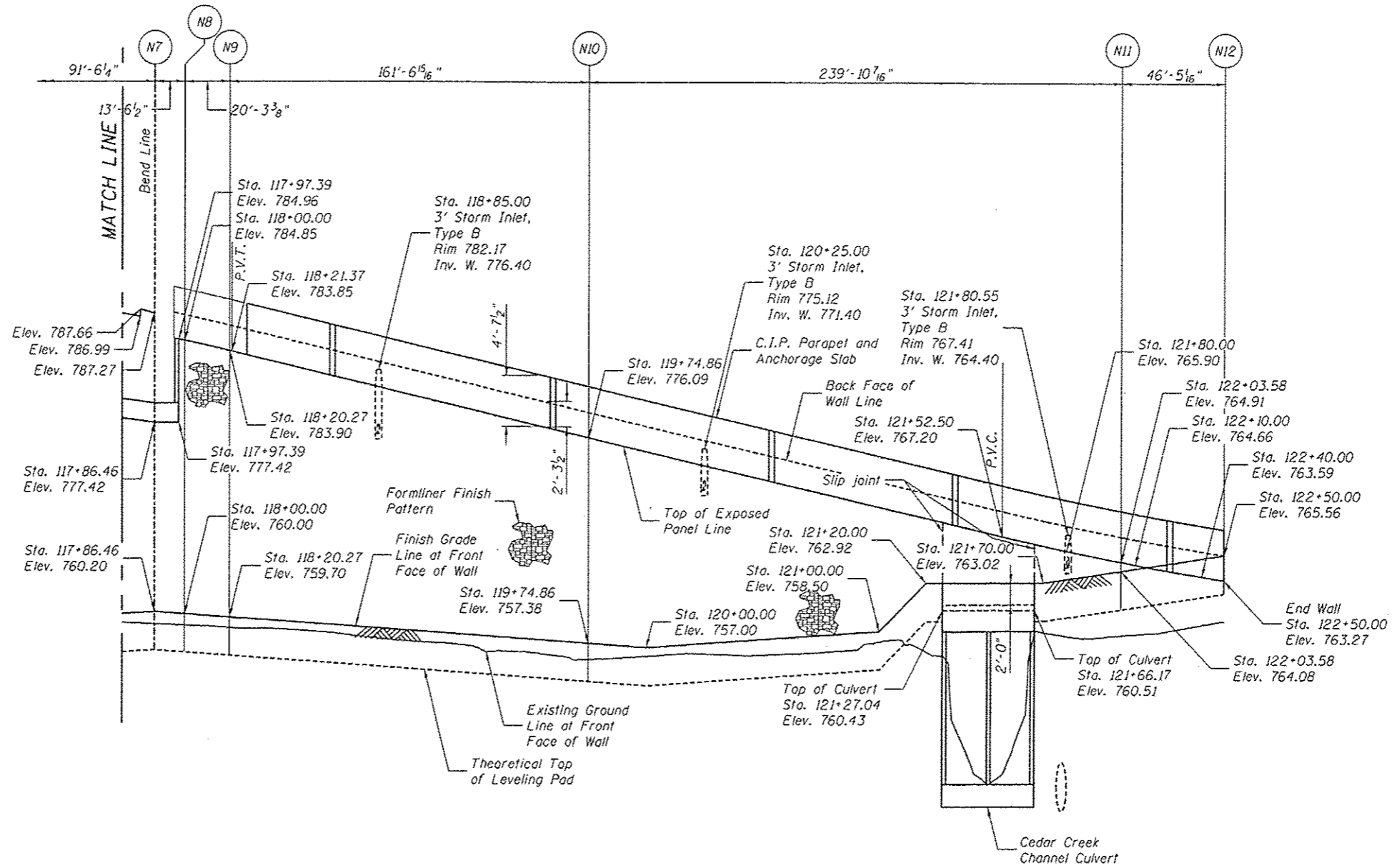
**SOUTH WALL UNFOLDED ELEVATION**

Professional Design Firm License # 164-001084		USER NAME: do-cc08b78		DESIGNED - KMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOUTH WALL UNFOLDED ELEVATION STRUCTURE NOS. 048-8502 &amp; 048-8503</b>		F.A.U. RTE. 6801	SECTION 05-00501-21-05	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 124
PLOT SCALE = 0.1667" / 1'		CHECKED - RCC	REVISED -	DRAWN - KMS	REVISED -		SHEET NO. 4 OF 32 SHEETS		CONTRACT NO. 89419		ILLINOIS FED. AID PROJECT		
PLOT DATE = 05/29/2013		CHECKED - 5/29/13	REVISED -	CHECKED - 5/29/13	REVISED -								
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LAYOUT	9/25/12
DRAWN	KMS
REVIEWED	5/24/13
DATE	5/24/13



NORTH WALL UNFOLDED ELEVATION

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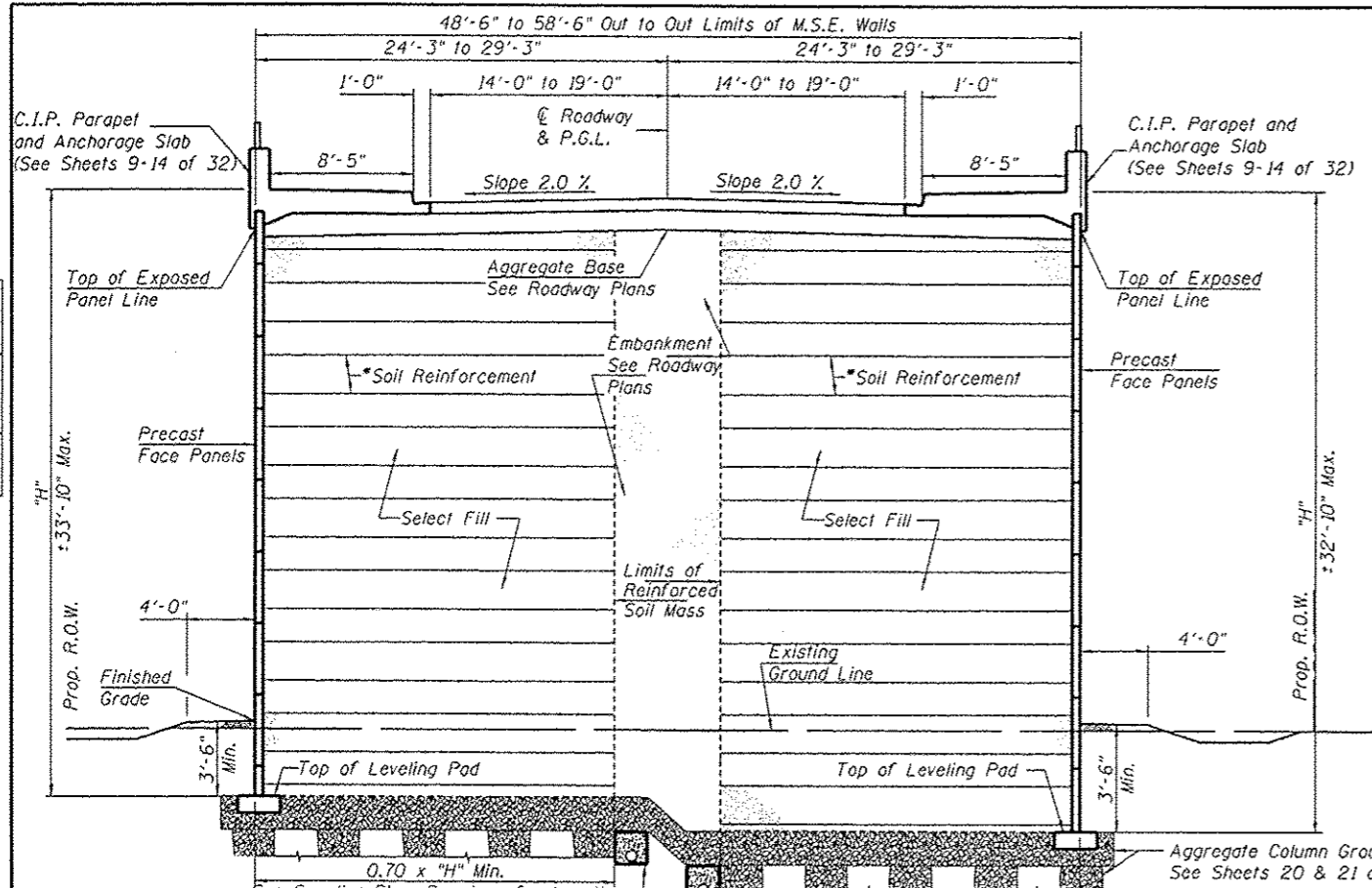
USER NAME + daws00878	DESIGNED - KMS	REVISED -
	CHECKED - RGC	REVISED -
PLOT SCALE + 0.1667' / in.	DRAWN - KMS	REVISED -
PLOT DATE + 05/24/2013	CHECKED - 5/29/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NORTH WALL UNFOLDED ELEVATION  
STRUCTURE NOS. 048-8502 & 048-8503  
SHEET NO. 6 OF 32 SHEETS

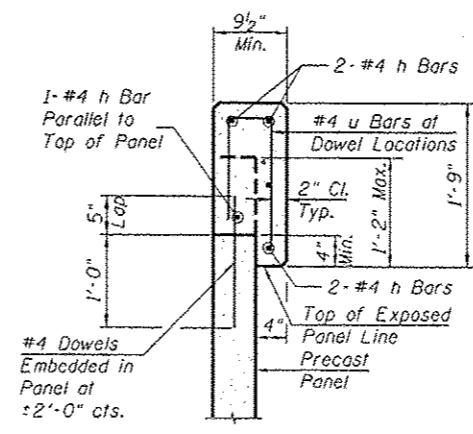
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-05	KNOX	269	126
				CONTRACT NO. 89419
[ILLINOIS] FED. AID PROJECT				

LAYOUT	9/25/12
DESIGN	5/24/13
REVISION	5/24/13
REVISED	5/24/13

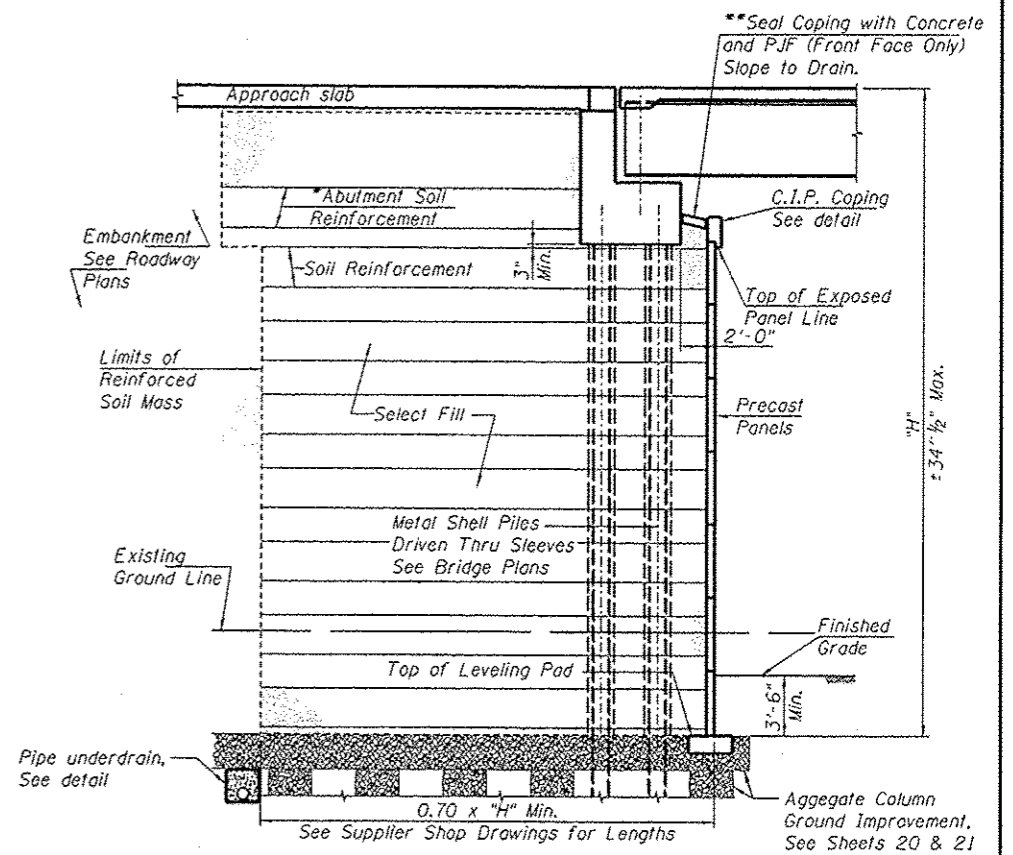


\*The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

**TYPICAL BACK to BACK M.S.E. WALL SECTION**



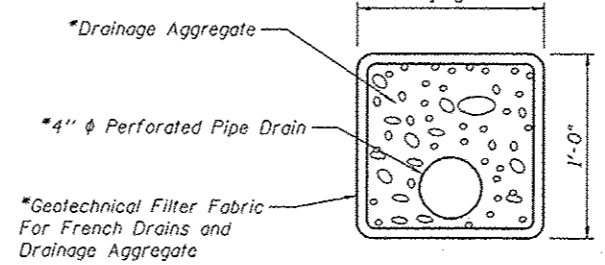
**SECTION THRU C.I.P. COPING**



**SECTION THRU ABUTMENT**

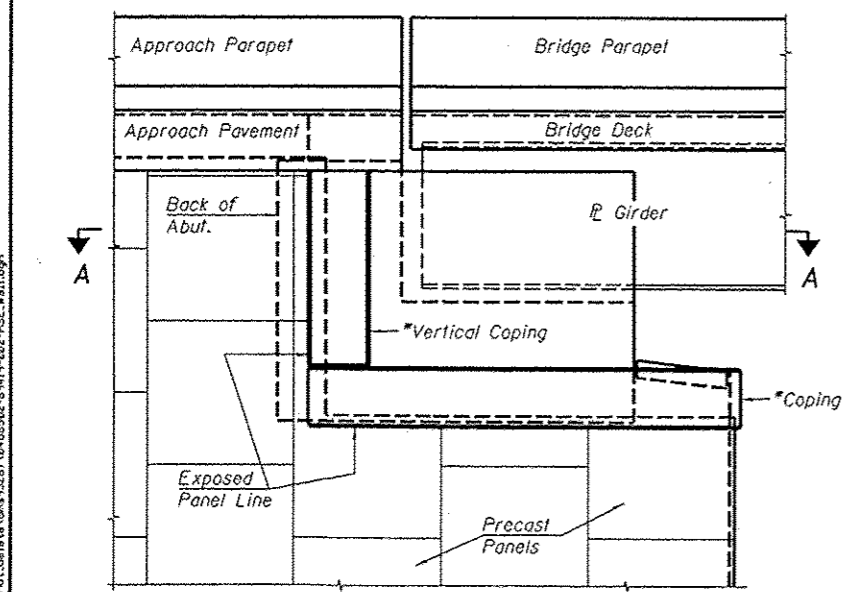
\*The M.S.E. wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 2.0 kips/ft of abutment. Cost of furnishing and installing abutment soil reinforcement is included with "Mechanically Stabilized Earth Retaining Wall."

\*\*Cost of placing concrete and PJF is included with "Mechanically Stabilized Earth Retaining Wall."



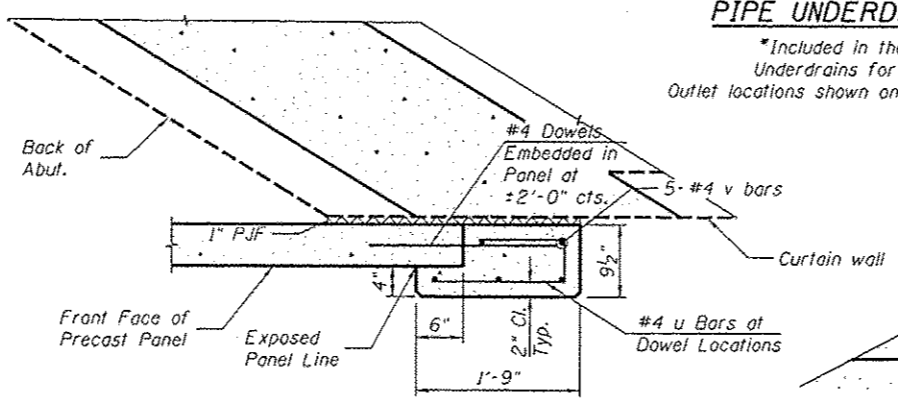
**PIPE UNDERDRAIN DETAIL**

\*Included in the cost of Pipe Underdrains for Structures 4". Outlet locations shown on Sheets 20 & 21 of 32

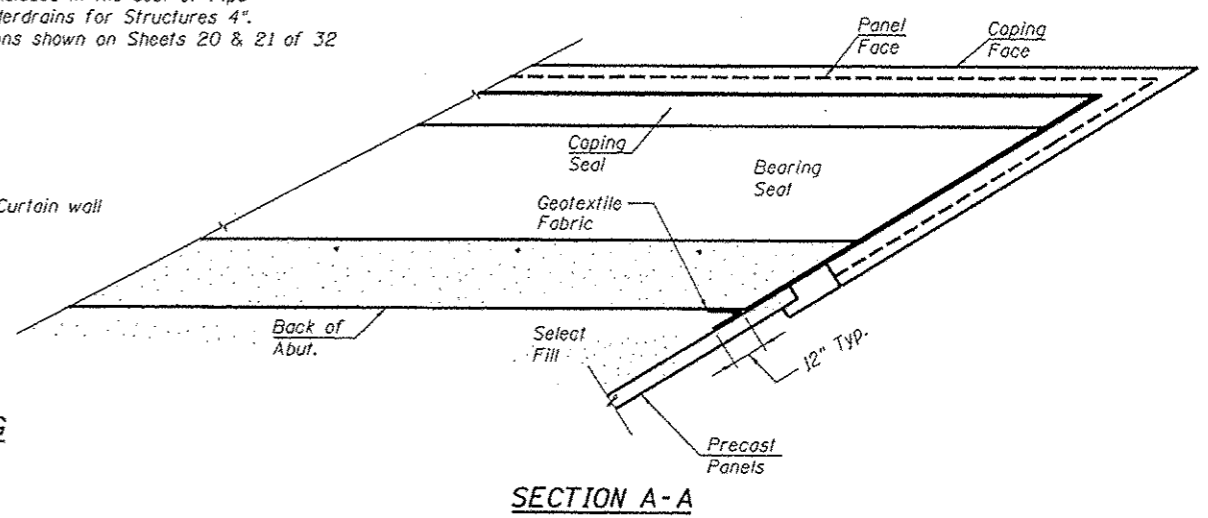


**ABUTMENT END VIEW**

\*Cost of furnishing and installing Coping is included with "Mechanically Stabilized Earth Retaining Wall."



**SECTION THRU VERTICAL C.I.P. COPING**



**SECTION A-A**



USER NAME	• davis06870	DESIGNED	- KMS	REVISION	-
CHECKED	- RGC	CHECKED	- RGC	REVISION	-
PLOT SCALE	• 8:1667 1/2 in.	DRAWN	- KMS	REVISION	-
PLOT DATE	• 05/29/2013	CHECKED	- 5/29/13	REVISION	-

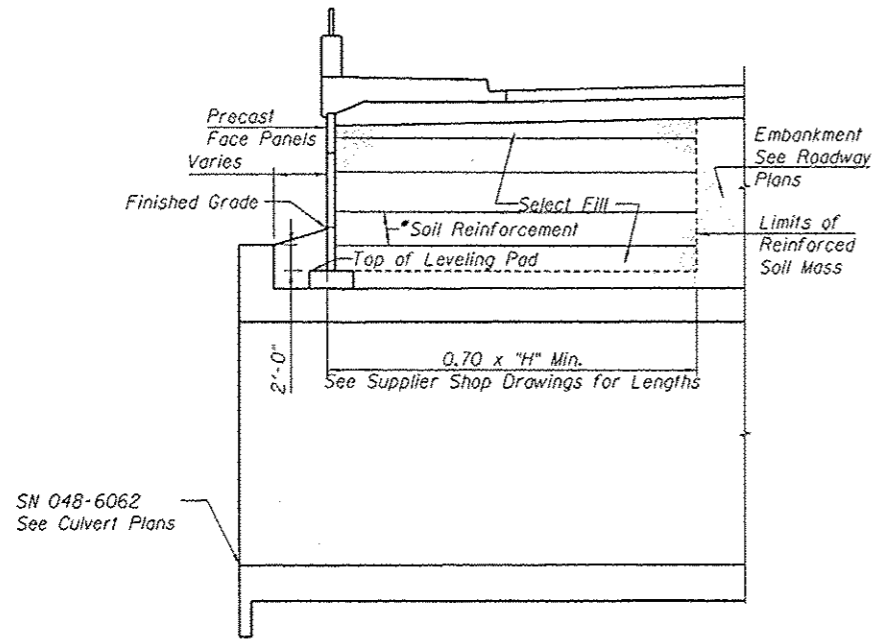
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MSE DETAILS  
STRUCTURE NOS. 048-8502 & 048-8503

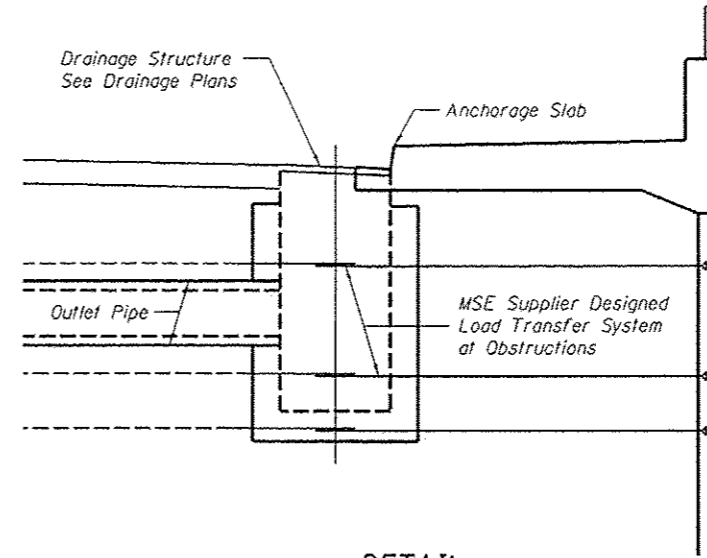
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-05	KNOX	269	127
			CONTRACT NO.	89419
ILLINOIS FED. AID PROJECT				

SHEET NO. 7 OF 32 SHEETS

LAYOUT	KMS	9/25/12
DRAWN	KMS	5/24/13
REVIEWED	RGC	5/24/13



**TYPICAL M.S.E. WALL SECTION AT CULVERT**



**DETAIL  
INLET THRU ANCHORAGE SLAB**

FILE NAME: c:\pwise\work\do\_not\_delete\asdasd\3287\0480502-83419-002-MSE-M11.dgn

Professional Design Firm License # 184-001084



USER NAME	• davec00078	DESIGNED	- KMS	REVISED	-
		CHECKED	- RGC	REVISED	-
PLOT SCALE	• 0.1667 "/ 1m	DRAWN	- KMS	REVISED	-
PLOT DATE	• 05/29/2013	CHECKED	- 5/29/13	REVISED	-

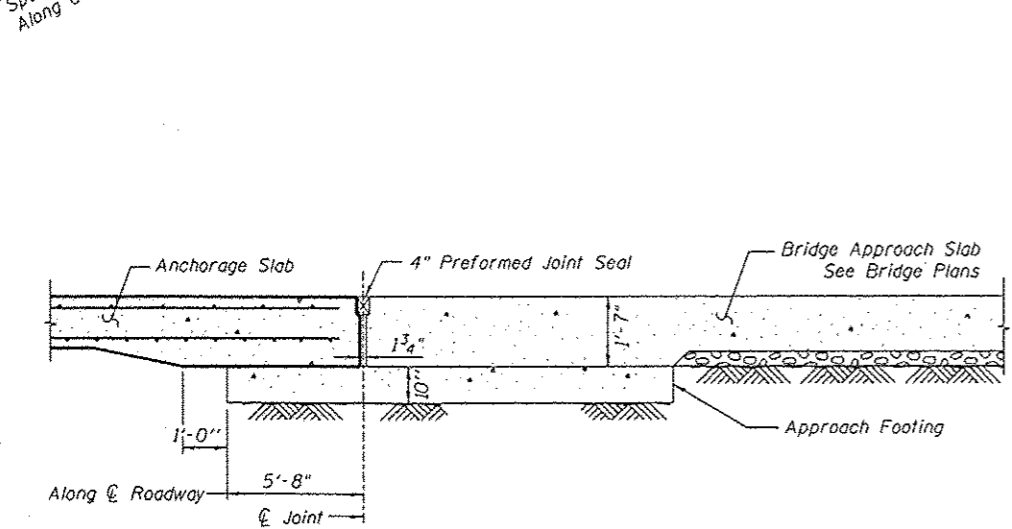
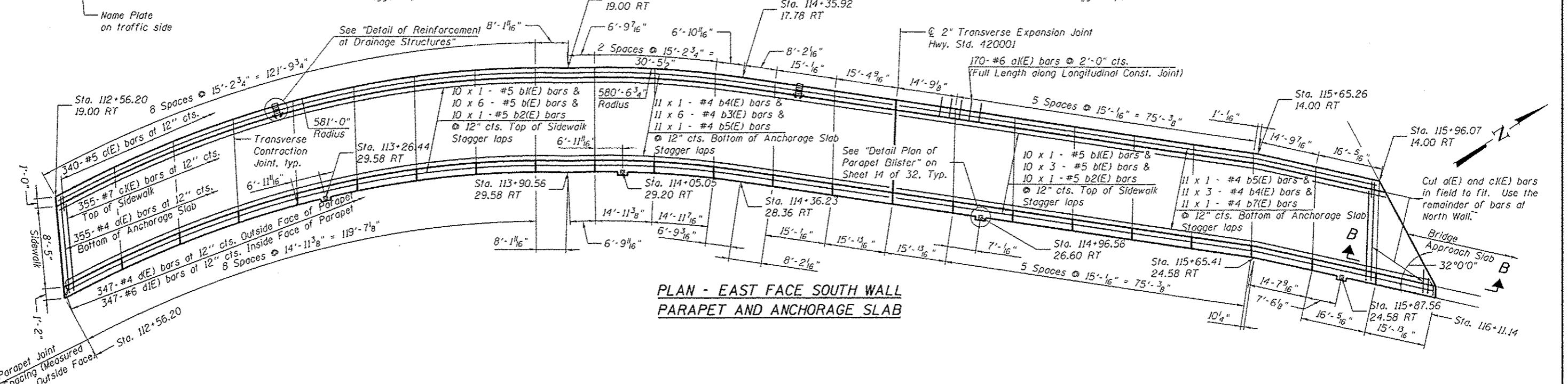
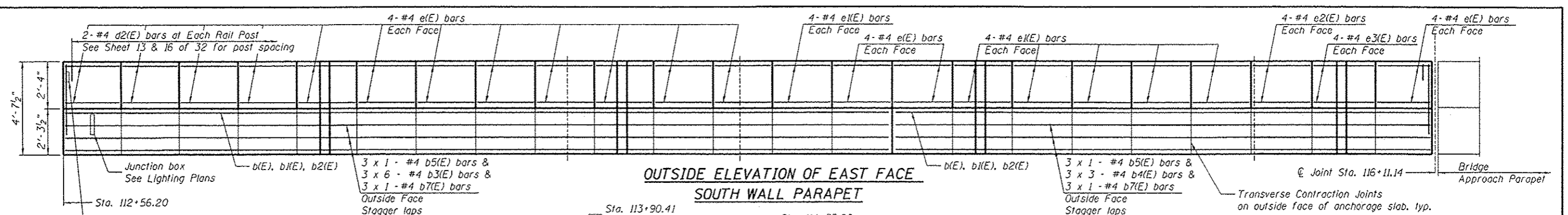
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MSE DETAILS  
STRUCTURE NOS. 048-8502 & 048-8503**

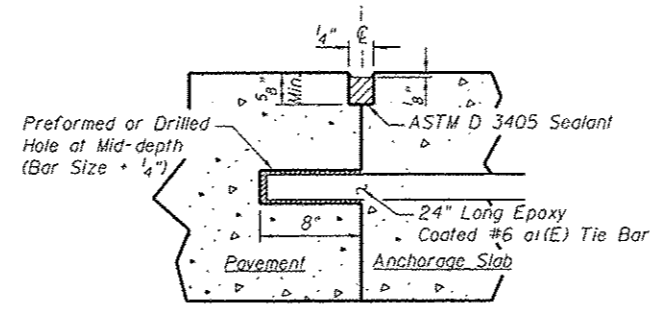
SHEET NO. 8 OF 32 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-G5	KNOX	269	128
			CONTRACT NO. 89419	
ILLINOIS FED. AID PROJECT				

DATE	BY	REVIEWED
5/25/12	KMS	
5/24/13	KMS	
5/24/13	RG	

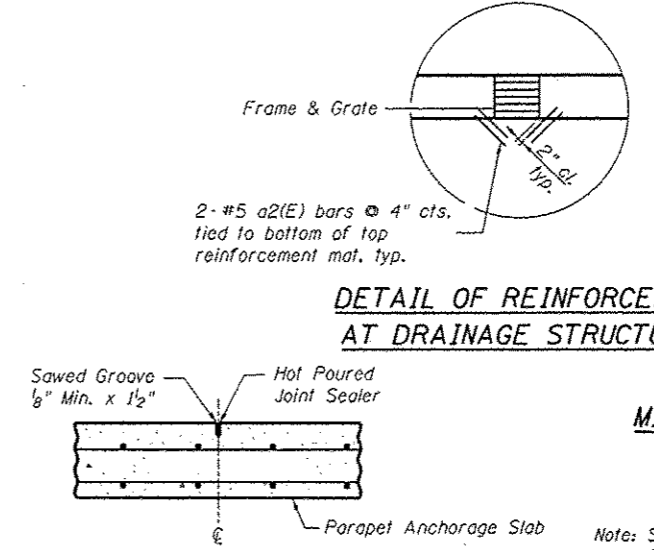


SECTION B-B



LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR

See Art. 420.05(b) of Standard Specifications



TRANSVERSE CONTRACTION JOINT

See Art. 420.05(c) of Standard Specifications

DETAIL OF REINFORCEMENT AT DRAINAGE STRUCTURES

MINIMUM BAR LAP

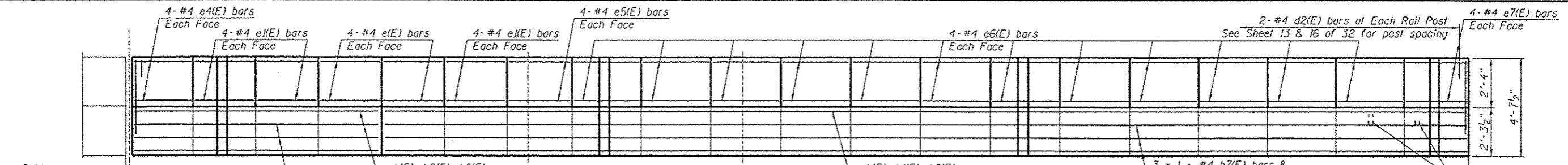
#4 Bar = 1'-10"  
#5 Bar = 2'-3"

Note: See Sheet 10 of 32 for SOUTH WALL BILL OF MATERIAL

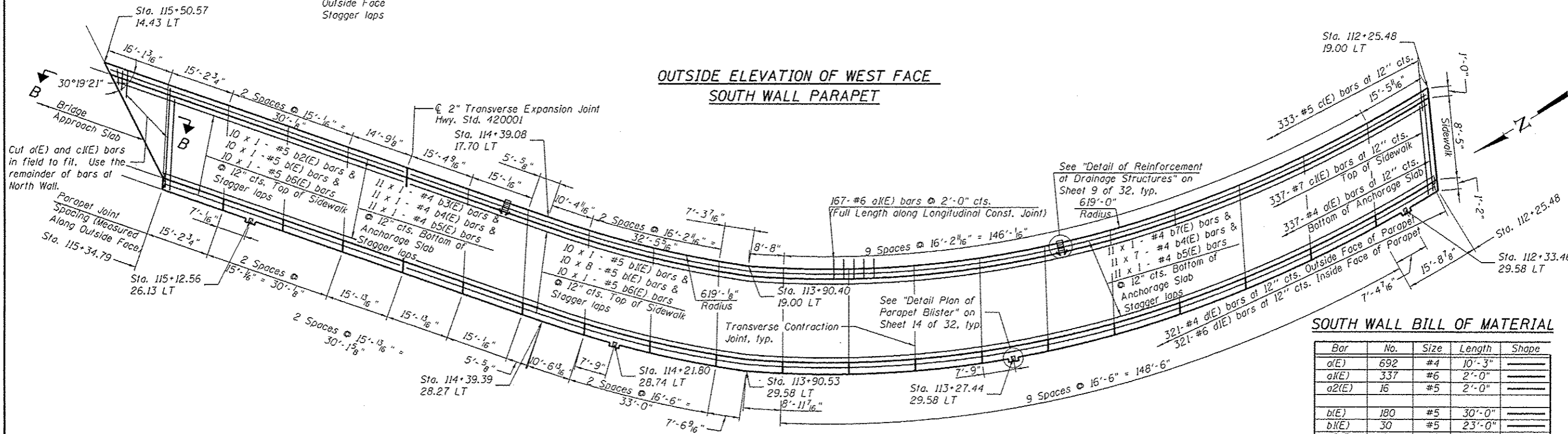
Contractor Shall Coordinate Joint Locations in Parapet, Sidewalk, and Pavement.

	USER NAME: davis08078 PLOT SCALE: 8,1667' / in. PLOT DATE: 05/29/2013	DESIGNED - KMS CHECKED - RGC DRAWN - KMS CHECKED - 5/29/13	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH WALL PARAPET AND ANCHORAGE SLAB STRUCTURE NOS. 048-8502 & 048-8503 SHEET NO. 9 OF 32 SHEETS	F.A.U. RTE. 6801 SECTION 05-00501-21-GS COUNTY KNOX TOTAL SHEETS 269 SHEET NO. 129 CONTRACT NO. 89419 ILLINOIS FED. AID PROJECT
	Professional Design Firm License # 184-001084				SHEET NO. 9 OF 32 SHEETS	
	Copyright Hanson Professional Services Inc. 2013					

LAYOUT	9/25/12
DRAWN	5/24/13
REVISED	5/24/13
KMS	
RGC	



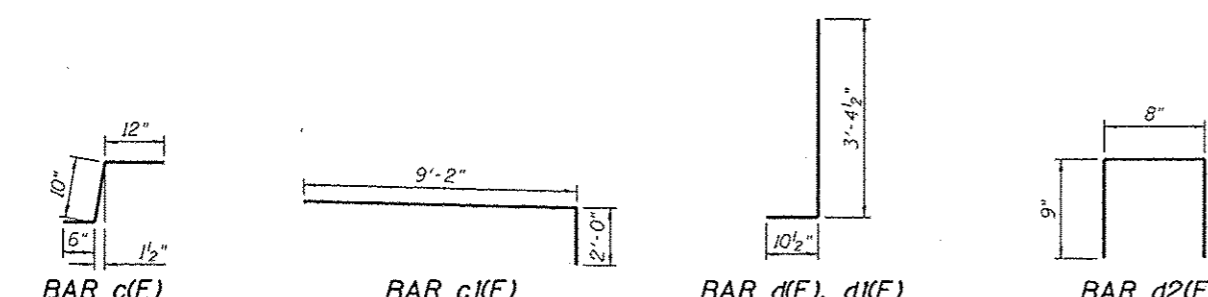
**OUTSIDE ELEVATION OF WEST FACE SOUTH WALL PARAPET**



**SOUTH WALL BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	692	#4	10'-3"	—
a1(E)	337	#6	2'-0"	—
a2(E)	16	#5	2'-0"	—
b1(E)	180	#5	30'-0"	—
b1(E)	30	#5	23'-0"	—
b2(E)	30	#5	33'-0"	—
b3(E)	98	#4	30'-0"	—
b4(E)	165	#4	33'-0"	—
b5(E)	53	#4	18'-0"	—
b6(E)	20	#5	18'-0"	—
b7(E)	31	#4	27'-0"	—
c1(E)	673	#5	2'-4"	┌
c1(E)	692	#7	11'-2"	┌
d1(E)	668	#4	4'-3"	J
d1(E)	668	#6	4'-3"	J
d2(E)	344	#4	1'-5"	J
d3(E)	56	#6	8'-11"	J
d4(E)	24	#6	5'-2"	J
e1(E)	136	#4	14'-7"	—
e1(E)	72	#4	14'-8"	—
e2(E)	8	#4	15'-1"	—
e3(E)	8	#4	15'-8"	—
e4(E)	8	#4	14'-9"	—
e5(E)	8	#4	15'-3"	—
e6(E)	96	#4	16'-2"	—
e7(E)	8	#4	15'-4"	—
Concrete Superstructure	Cu. Yd.	68.6		
Concrete Structures	Cu. Yd.	363.9		
Reinforcement Bars, Epoxy Coated	Pound	48670		

**PLAN - WEST FACE SOUTH WALL PARAPET AND ANCHORAGE SLAB**

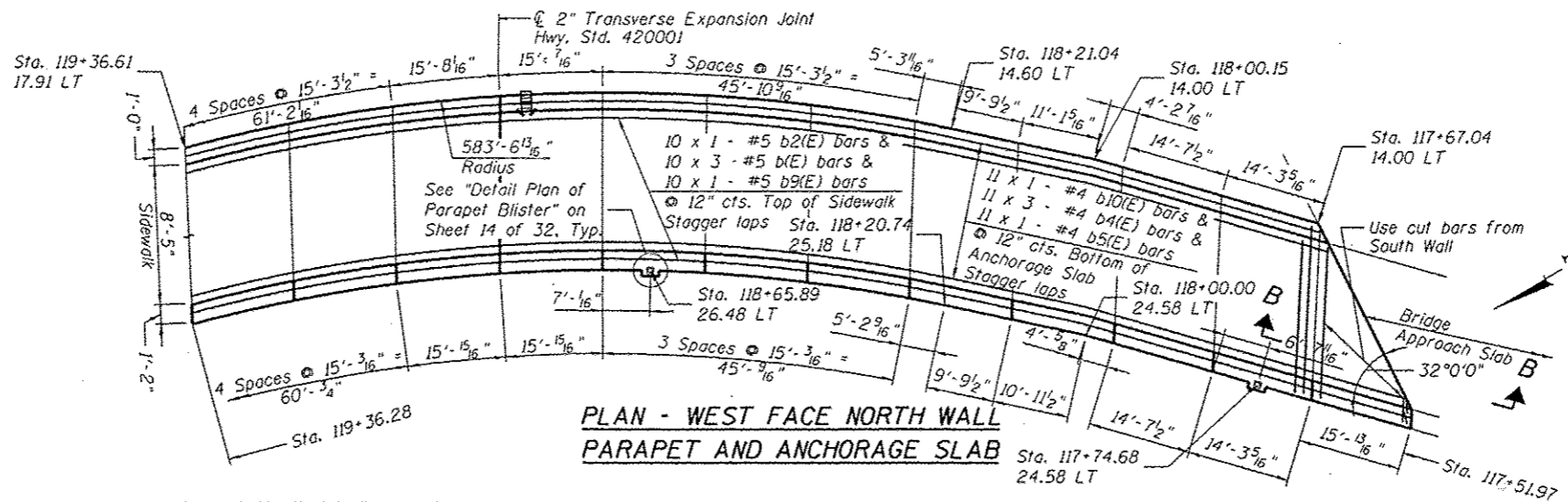
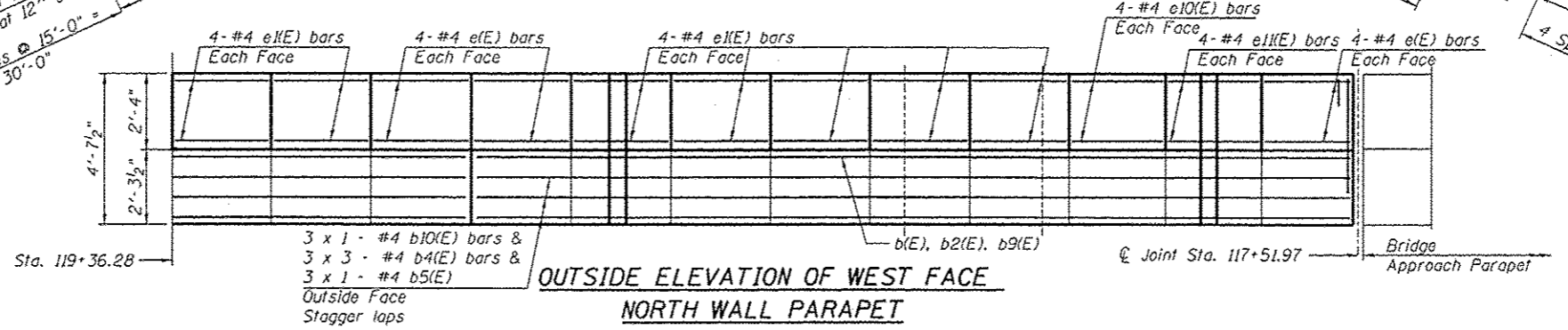
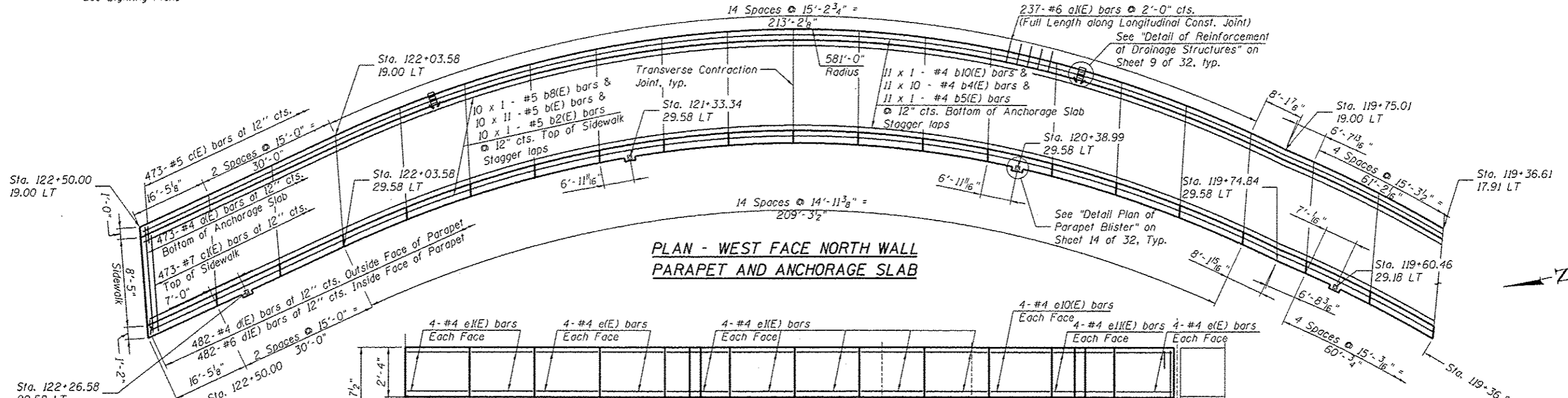
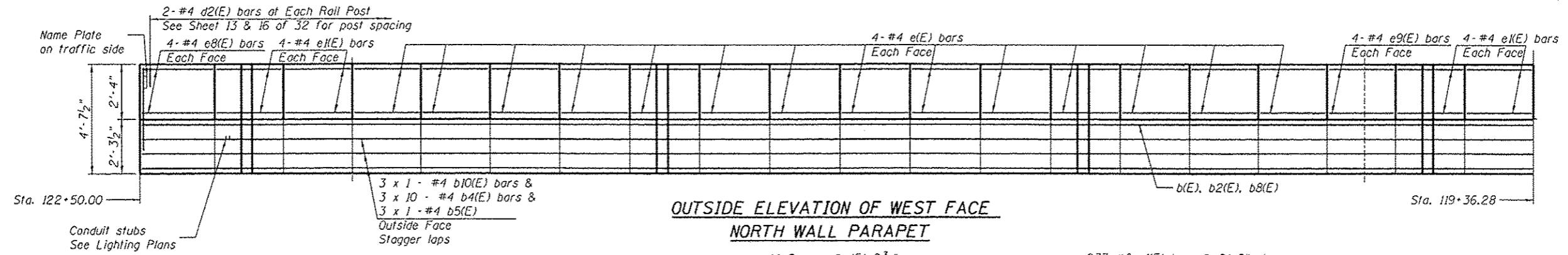


**MINIMUM BAR LAP**  
 #4 Bar = 1'-10"  
 #5 Bar = 2'-3"

Contractor Shall Coordinate Joint Locations in Parapet, Sidewalk, and Pavement.

<b>HANSON</b> Professional Design Firm License # 154-001284	USER NAME • davo88878 DESIGNED - KMS CHECKED - RGC PLOT SCALE • 8/1667' / 1"	DESIGNED - KMS CHECKED - RGC DRAWN - KMS CHECKED - 5/29/13	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SOUTH WALL PARAPET AND ANCHORAGE SLAB</b> <b>STRUCTURE NOS. 048-8502 &amp; 048-8503</b>	F.A.U. RT.E. 6801 SECTION 05-00501-21-GS COUNTY KNOX TOTAL SHEETS 269 SHEET NO. 130 CONTRACT NO. 89419 ILLINOIS FED. AID PROJECT
	SHEET NO. 10 OF 32 SHEETS					
	Copyright Hanson Professional Services Inc. 2013					

LAYOUT	9/25/12
DRAWN	KMS
CHECKED	RGK
REVISED	5/24/13



**MINIMUM BAR LAP**  
 #4 Bar = 1'-10"  
 #5 Bar = 2'-3"  
 Note: See Sheet 12 of 32 for NORTH WALL BILL OF MATERIAL

Contractor Shall Coordinate Joint Locations in Parapet, Sidewalk, and Pavement.

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USER NAME	davis00070
PLOT SCALE	0.1667 / 1" = 16'-0"
PLOT DATE	05/29/2013

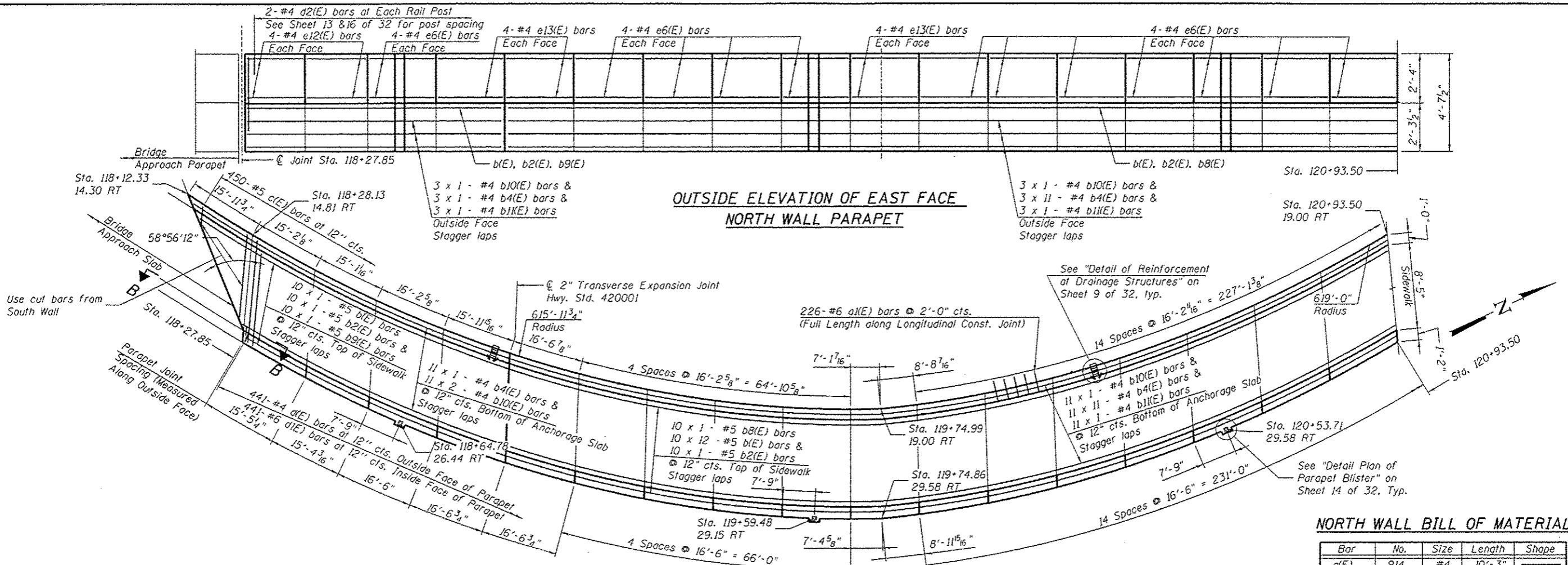
DESIGNED	KMS
CHECKED	RGK
DRAWN	KMS
CHECKED	5/29/13

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

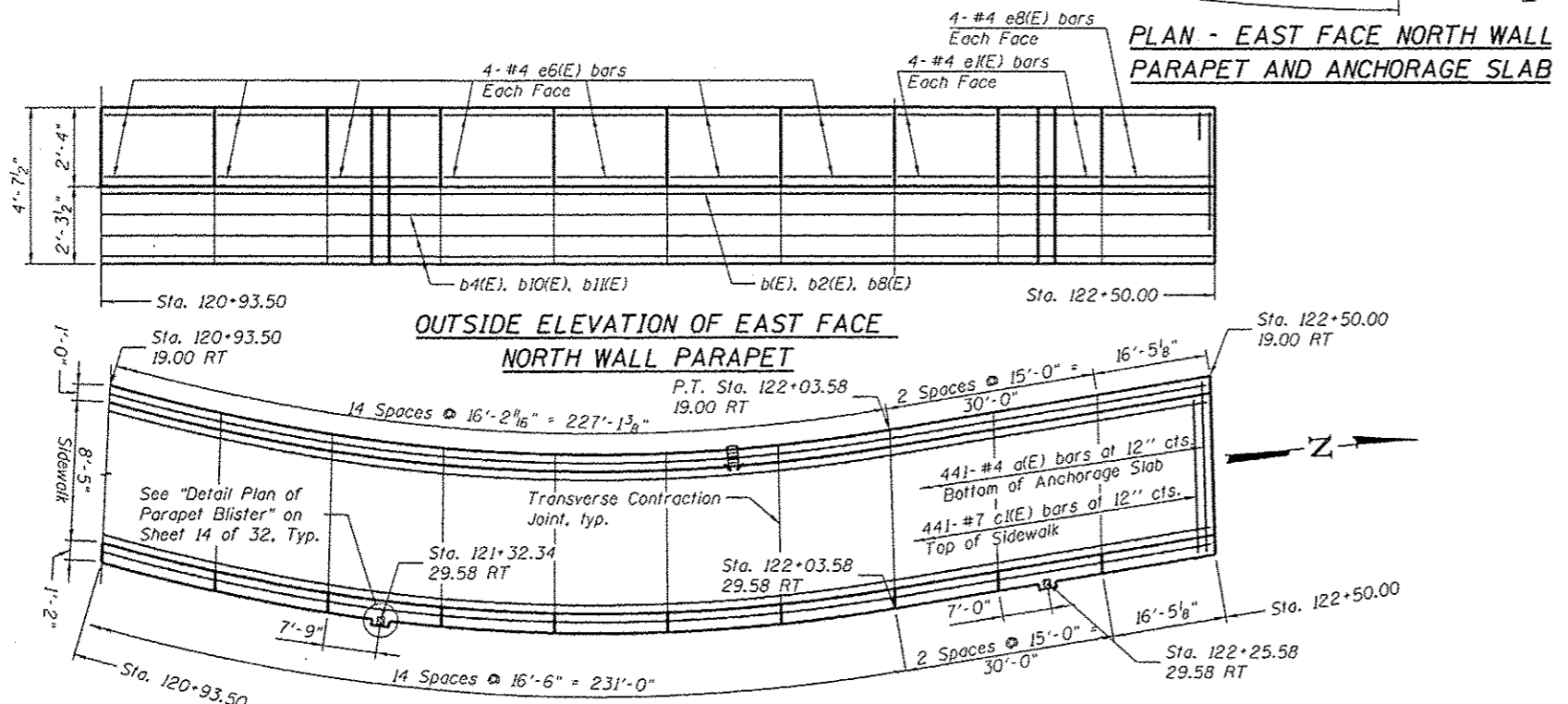
NORTH WALL PARAPET AND ANCHORAGE SLAB  
 STRUCTURE NOS. 048-8502 & 048-8503  
 SHEET NO. 11 OF 32 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	131
CONTRACT NO.			89419	
ILLINOIS FED. AID PROJECT				

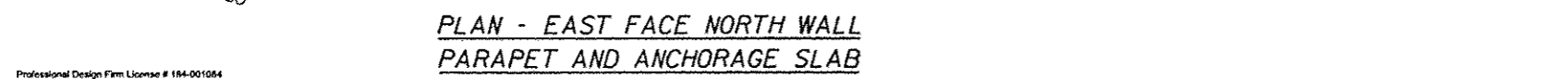
LAYOUT	9/25/12
DESIGN	5/24/13
CHECKED	5/24/13
REVIEWED	5/24/13



**OUTSIDE ELEVATION OF EAST FACE NORTH WALL PARAPET**



**PLAN - EAST FACE NORTH WALL PARAPET AND ANCHORAGE SLAB**



**OUTSIDE ELEVATION OF EAST FACE NORTH WALL PARAPET**

**PLAN - EAST FACE NORTH WALL PARAPET AND ANCHORAGE SLAB**

**MINIMUM BAR LAP**  
 #4 Bar = 1'-10"  
 #5 Bar = 2'-3"

Contractor Shall Coordinate Joint Locations in Parapet, Sidewalk, and Pavement.

**NORTH WALL BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	914	#4	10'-3"	—
a1(E)	463	#6	2'-0"	—
a2(E)	24	#5	2'-0"	—
b(E)	270	#5	30'-0"	—
b2(E)	40	#5	33'-0"	—
b4(E)	350	#4	33'-0"	—
b5(E)	28	#4	18'-0"	—
b8(E)	20	#5	15'-0"	—
b9(E)	20	#5	20'-0"	—
b10(E)	67	#4	25'-0"	—
b11(E)	17	#4	10'-0"	—
c(E)	923	#5	2'-4"	—
c1(E)	914	#7	11'-2"	—
d(E)	923	#4	4'-3"	—
d1(E)	923	#6	4'-3"	—
d2(E)	472	#4	1'-5"	—
d3(E)	77	#6	8'-11"	—
d4(E)	33	#6	5'-2"	—
e(E)	136	#4	14'-7"	—
e1(E)	104	#4	14'-8"	—
e6(E)	152	#4	16'-2"	—
e8(E)	16	#4	16'-1"	—
e9(E)	8	#4	14'-6"	—
e10(E)	8	#4	14'-3"	—
e11(E)	8	#4	13'-11"	—
e12(E)	16	#4	15'-0"	—
e13(E)	24	#4	16'-0"	—
Concrete Superstructure		Cu. Yd.	94.7	
Concrete Structures		Cu. Yd.	502.8	
Reinforcement Bars, Epoxy Coated		Pound	65750	

Professional Design Firm License # 184-001084

<b>HANSON</b>	USER NAME = davis00878	DESIGNED - KMS	REVISIONS -
	PLOT SCALE = 8/1667 1/16"	CHECKED - RGC	REVISIONS -
	PLOT DATE = 05/29/2013	DRAWN - KMS	REVISIONS -
		CHECKED - 5/29/13	REVISIONS -

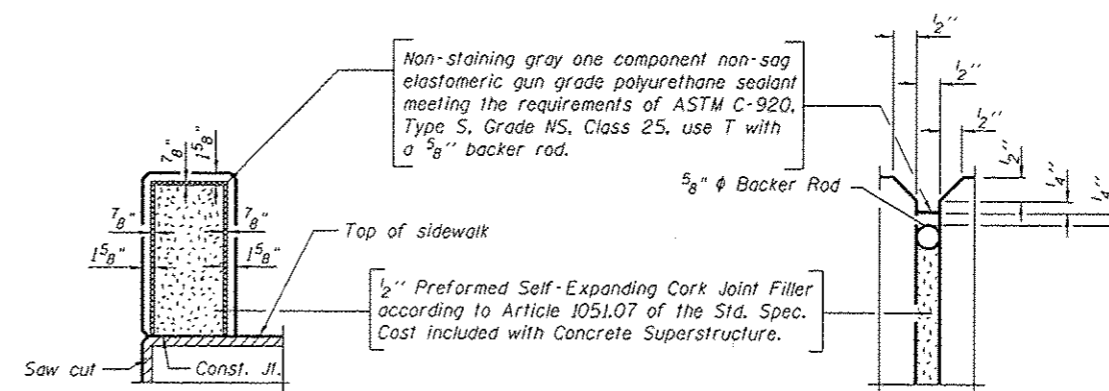
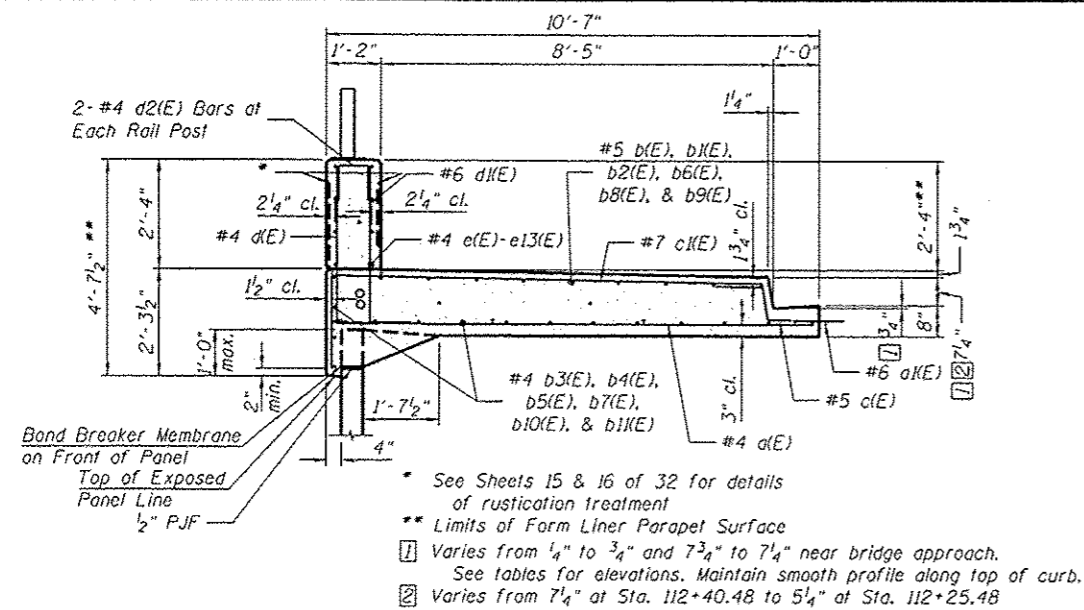
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**NORTH WALL PARAPET AND ANCHORAGE SLAB**  
 STRUCTURE NOS. 048-8502 & 048-8503

F.A.U. RTE. 6801	SECTION 05-00501-21-GS	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 132
SHEET NO. 12 OF 32 SHEETS				CONTRACT NO. 89419
ILLINOIS FED. AID PROJECT				



LAYOUT	KMS	9/25/12
DRAWN	KMS	5/24/13
REVIEWED	RGC	5/24/13



EAST FACE SOUTH WALL ANCHORAGE SLAB ELEVATIONS

Seminary St. Station	Edge of Pavement Offset	Edge of Pavement Elevation	Gutter Line Elevation	Top of Curb Elevation	Base of Parapet Elevation	Handrail Post Spacing
End	112+96.20	19.00 Rt.	772.70	773.63	773.30	773.45
Joint	112+71.93	19.00 Rt.	773.12	773.06	773.73	773.87
Joint	112+87.65	19.00 Rt.	773.60	773.54	774.21	774.35
Joint	113+03.38	19.00 Rt.	774.13	774.07	774.73	774.88
Joint	113+19.10	19.00 Rt.	774.73	774.67	775.33	775.48
Joint	113+34.83	19.00 Rt.	775.48	775.42	776.08	776.23
Joint	113+50.55	19.00 Rt.	776.26	776.20	776.86	777.01
Joint	113+66.28	19.00 Rt.	777.05	776.99	777.65	777.80
Joint	113+82.00	19.00 Rt.	777.83	777.77	778.43	778.58
Taper Pt.	113+90.41	19.00 Rt.	778.25	778.19	778.85	779.00
Joint	113+97.42	18.81 Rt.	778.60	778.54	779.21	779.35
Joint	114+13.12	18.39 Rt.	779.40	779.34	780.01	780.15
Joint	114+28.82	17.97 Rt.	780.19	780.13	780.79	780.94
Slab PT	114+35.92	17.78 Rt.	780.55	780.49	781.16	781.30
Joint	114+44.13	17.55 Rt.	780.97	780.91	781.57	781.72
Joint	114+59.13	17.11 Rt.	781.73	781.67	782.33	782.48
2" Joint	114+74.50	16.66 Rt.	782.51	782.44	783.11	783.26
Joint	114+89.25	16.22 Rt.	783.25	783.18	783.85	784.00
Joint	115+04.25	15.79 Rt.	784.00	783.94	784.61	784.75
Joint	115+19.25	15.35 Rt.	784.76	784.70	785.37	785.51
Joint	115+34.25	14.91 Rt.	785.52	785.46	786.13	786.27
Joint	115+49.25	14.47 Rt.	786.23	786.17	786.83	786.98
Joint	115+64.25	14.03 Rt.	786.86	786.80	787.46	787.61
Taper Pt.	115+65.26	14.00 Rt.	786.90	786.84	787.50	787.65
Joint	115+80.04	14.00 Rt.	787.43	787.37	788.03	788.18
Joint	115+96.07	14.00 Rt.	787.91	787.89	788.56	788.70
Br. Appr.	115+96.07	14.00 Rt.	787.91	787.94	788.60	789.08

WEST FACE SOUTH WALL ANCHORAGE SLAB ELEVATIONS

Seminary St. Station	Edge of Pavement Offset	Edge of Pavement Elevation	Gutter Line Elevation	Top of Curb Elevation	Base of Parapet Elevation	Handrail Post Spacing
End	112+25.48	19.00 Lt.	771.24	771.18	771.68	771.82
Joint	112+40.48	19.00 Lt.	771.69	771.63	772.29	772.44
Joint	112+56.20	19.00 Lt.	772.20	772.14	772.80	772.95
Joint	112+71.93	19.00 Lt.	772.76	772.70	773.36	773.51
Joint	112+87.65	19.00 Lt.	773.37	773.31	773.97	774.12
Joint	113+03.38	19.00 Lt.	774.03	773.97	774.63	774.78
Joint	113+19.10	19.00 Lt.	774.73	774.67	775.33	775.48
Joint	113+34.83	19.00 Lt.	775.48	775.42	776.08	776.23
Joint	113+50.55	19.00 Lt.	776.26	776.20	776.86	777.01
Joint	113+66.28	19.00 Lt.	777.05	776.99	777.65	777.80
Joint	113+82.00	19.00 Lt.	777.83	777.77	778.43	778.58
Taper Pt.	113+90.40	19.00 Lt.	778.25	778.19	778.85	779.00
Joint	113+97.46	18.81 Lt.	778.60	778.54	779.21	779.35
Joint	114+13.19	18.39 Lt.	779.40	779.34	780.01	780.15
Joint	114+28.93	17.97 Lt.	780.20	780.14	780.80	780.95
Slab PC	114+39.08	17.70 Lt.	780.72	780.65	781.32	781.47
Joint	114+44.13	17.55 Lt.	780.97	780.91	781.57	781.72
Joint	114+59.13	17.11 Lt.	781.73	781.67	782.33	782.48
2" Joint	114+74.50	16.66 Lt.	782.51	782.44	783.11	783.26
Joint	114+89.25	16.23 Lt.	783.25	783.18	783.85	784.00
Joint	115+04.25	15.79 Lt.	784.00	783.94	784.61	784.75
Joint	115+19.25	15.35 Lt.	784.76	784.70	785.37	785.51
Joint	115+34.48	14.90 Lt.	785.53	785.51	786.18	786.32
Br. Appr.	115+50.57	14.43 Lt.	786.29	786.19	786.86	786.32

WEST FACE NORTH WALL ANCHORAGE SLAB ELEVATIONS

Seminary St. Station	Edge of Pavement Offset	Edge of Pavement Elevation	Gutter Line Elevation	Top of Curb Elevation	Base of Parapet Elevation	Handrail Post Spacing
Br. Appr.	117+67.04	14.00 Lt.	787.61	787.64	788.31	788.83
Joint	117+67.04	14.00 Lt.	787.61	787.59	788.26	788.40
Joint	117+81.32	14.00 Lt.	787.13	787.07	787.73	787.89
Joint	117+95.95	14.00 Lt.	786.56	786.50	787.16	787.31
Taper Pt.	118+00.15	14.00 Lt.	786.38	786.32	786.98	787.13
Joint	118+11.25	14.32 Lt.	785.88	785.82	786.49	786.63
Slab PT	118+21.04	14.60 Lt.	785.41	785.35	786.01	786.16
Joint	118+26.48	14.76 Lt.	785.12	785.06	785.73	785.87
Joint	118+42.16	15.21 Lt.	784.34	784.27	784.94	785.09
Joint	118+57.85	15.66 Lt.	783.55	783.48	784.15	784.30
Joint	118+73.55	16.11 Lt.	782.75	782.69	783.35	783.50
2" Joint	118+89.00	16.55 Lt.	781.97	781.91	782.57	782.72
Joint	119+05.12	17.01 Lt.	781.15	781.09	781.75	781.90
Joint	119+20.86	17.46 Lt.	780.36	780.30	780.96	781.11
Joint	119+36.61	17.91 Lt.	779.56	779.50	780.17	780.31
Joint	119+52.37	18.36 Lt.	778.76	778.70	779.37	779.51
Joint	119+68.14	18.81 Lt.	777.96	777.90	778.57	778.71
Taper Pt.	119+75.01	19.00 Lt.	777.62	777.56	778.22	778.37
Joint	119+83.43	19.00 Lt.	777.20	777.14	777.80	777.95
Joint	119+99.15	19.00 Lt.	776.41	776.35	777.01	777.16
Joint	120+14.88	19.00 Lt.	775.62	775.56	776.22	776.37
Joint	120+30.60	19.00 Lt.	774.84	774.78	775.44	775.59
Joint	120+46.33	19.00 Lt.	774.05	773.99	774.65	774.80
Joint	120+62.05	19.00 Lt.	773.27	773.21	773.87	774.02
Joint	120+77.76	19.00 Lt.	772.48	772.42	773.08	773.23
Joint	120+93.50	19.00 Lt.	771.69	771.63	772.29	772.44
Joint	121+09.23	19.00 Lt.	770.91	770.85	771.51	771.66
Joint	121+24.95	19.00 Lt.	770.12	770.06	770.72	770.87
Joint	121+40.68	19.00 Lt.	769.33	769.27	769.93	770.08
Joint	121+56.40	19.00 Lt.	768.55	768.49	769.15	769.30
Joint	121+72.13	19.00 Lt.	767.80	767.74	768.40	768.55
Joint	121+87.85	19.00 Lt.	767.10	767.04	767.70	767.85
Joint, PT	122+03.58	19.00 Lt.	766.45	766.39	767.05	767.20
Joint	122+18.58	19.00 Lt.	765.87	765.81	766.47	766.62
Joint	122+33.58	19.00 Lt.	765.34	765.28	765.94	766.09
End	122+50.00	19.00 Lt.	764.81	764.75	765.41	765.56

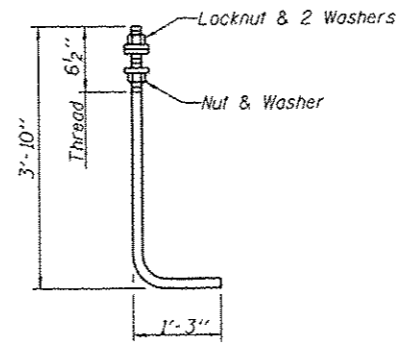
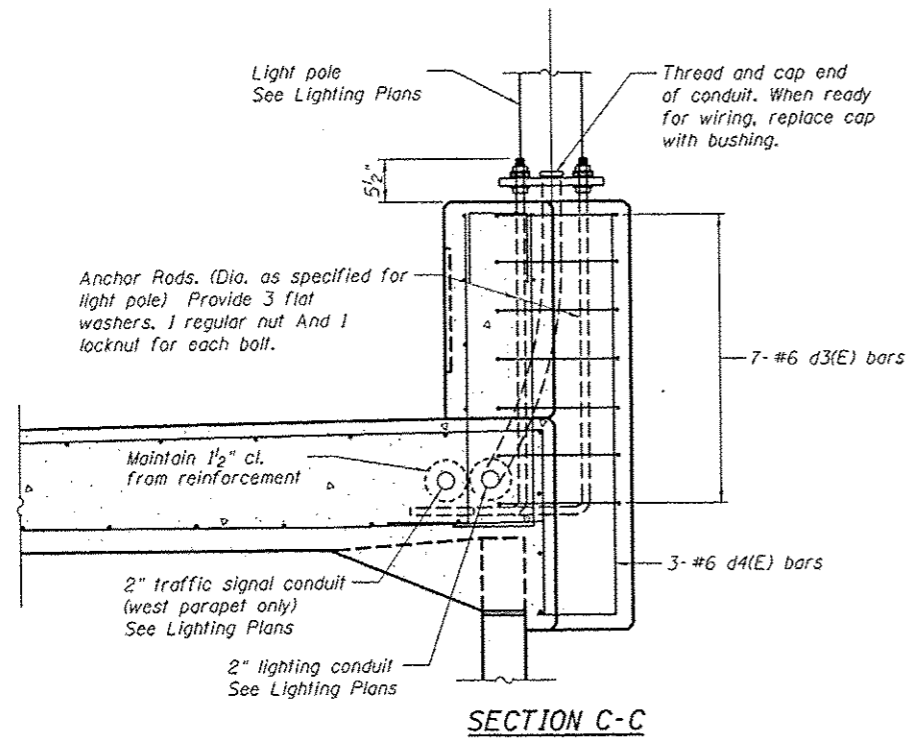
EAST FACE NORTH WALL ANCHORAGE SLAB ELEVATIONS

Seminary St. Station	Edge of Pavement Offset	Edge of Pavement Elevation	Gutter Line Elevation	Top of Curb Elevation	Base of Parapet Elevation	Handrail Post Spacing
Br. Appr.	118+12.33	14.30 Rt.	785.63	785.73	786.40	785.84
Joint	118+28.13	14.81 Rt.	785.04	785.02	785.69	785.84
End Parapet	118+28.13	14.81 Rt.	785.04	785.02	785.69	785.84
Joint	118+42.94	15.23 Rt.	784.30	784.23	784.90	785.05
Joint	118+57.64	15.65 Rt.	783.56	783.49	784.16	784.31
Joint	118+73.44	16.11 Rt.	782.76	782.70	783.36	783.51
2" Joint	118+89.00	16.55 Rt.	781.97	781.91	782.57	782.72
Joint	119+05.12	17.01 Rt.	781.15	781.09	781.75	781.90
Joint	119+20.86	17.46 Rt.	780.35	780.29	780.95	781.10
Joint	119+36.63	17.91 Rt.	779.56	779.50	780.17	780.31
Joint	119+52.37	18.36 Rt.	778.76	778.70	779.37	779.51
Joint	119+68.10	18.80 Rt.	777.96	777.90	778.57	778.71
Taper Pt.	119+74.99	19.00 Rt.	777.62	777.56	778.22	778.37
Joint	119+83.43	19.00 Rt.	777.20	777.14	777.80	777.95
Joint	119+99.15	19.00 Rt.	776.41	776.35	777.01	777.16
Joint	120+14.88	19.00 Rt.	775.62	775.56	776.22	776.37
Joint	120+30.60	19.00 Rt.	774.84	774.78	775.44	775.59
Joint	120+46.33	19.00 Rt.	774.05	773.99	774.65	774.80
Joint	120+62.05	19.00 Rt.	773.27	773.21	773.87	774.02
Joint	120+77.78	19.00 Rt.	772.48	772.42	773.08	773.23
Joint	120+93.50	19.00 Rt.	771.69	771.63	772.29	772.44
Joint	121+09.23	19.00 Rt.	770.91	770.85	771.51	771.66
Joint	121+24.95	19.00 Rt.	770.12	770.06	770.72	770.87
Joint	121+40.68	19.00 Rt.	769.33	769.27	769.93	770.08
Joint	121+56.40	19.00 Rt.	768.55	768.49	769.15	769.30
Joint	121+72.13	19.00 Rt.	767.80	767.74	768.40	768.55
Joint	121+87.85	19.00 Rt.	767.10	767.04	767.70	767.85
Joint, PT	122+03.58	19.00 Rt.	766.45	766.39	767.05	767.20
Joint	122+18.58	19.00 Rt.	765.87	765.81	766.47	766.62
Joint	122+33.58	19.00 Rt.	765.34	765.28	765.94	766.09
End	122+50.00	19.00 Rt.	764.81	764.75	765.41	765.56

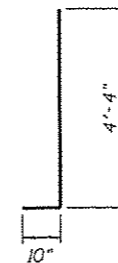
Notes:

- Stations and offsets are to the inside edge of anchorage slab.
- Elevations are at the top of anchorage slab along joints or transition points as indicated.
- Transverse contraction joints are at right angles to the parapet.
- 2" transverse expansion joints are at right angles to the roadway.
- Handrail post spacings are measured along the top of rolling.

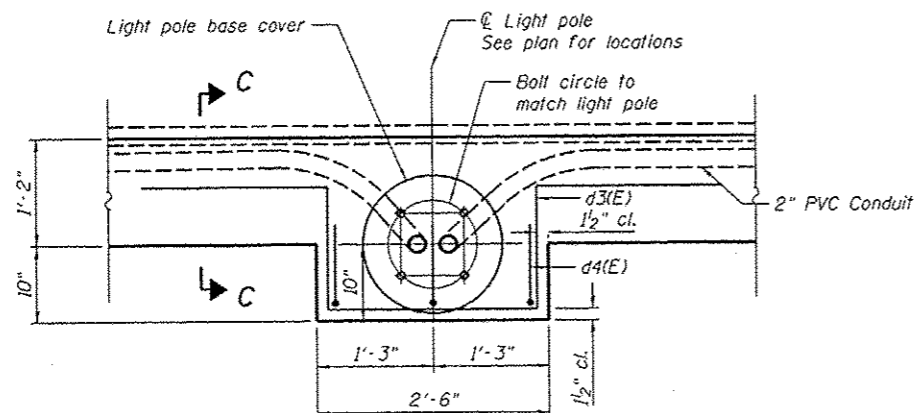
LAYOUT	9/25/12
DRAWN	5/24/13
REVIEWED	5/24/13
	RMS
	RCC



**ANCHOR ROD**  
 Diameter as specified for light poles.  
 (ASTM F 1554 Grade 105)  
 Full length hot dipped galvanized.

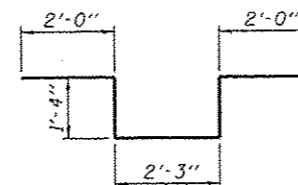


**BAR d4(E)**



**DETAIL PLAN OF PARAPET BLISTER**

Note:  
 Cost of anchor rods is included with Concrete Superstructure.



**BAR d3(E)**

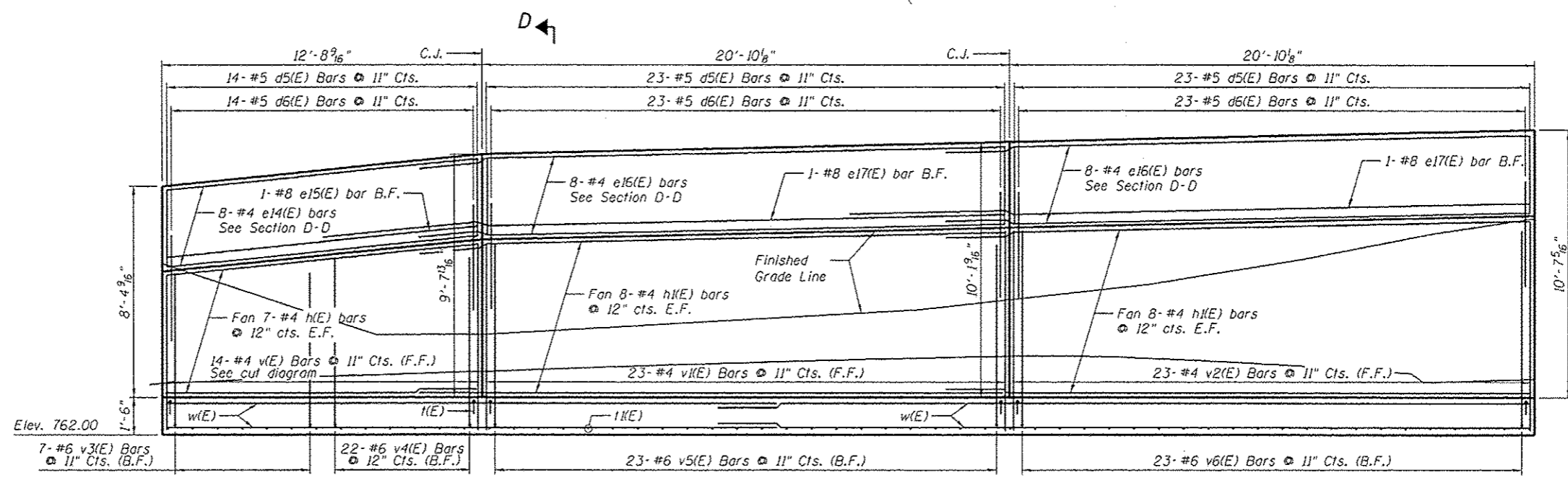
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	CONTRACT NO. 89419 ILLINOIS FED. AID PROJECT									

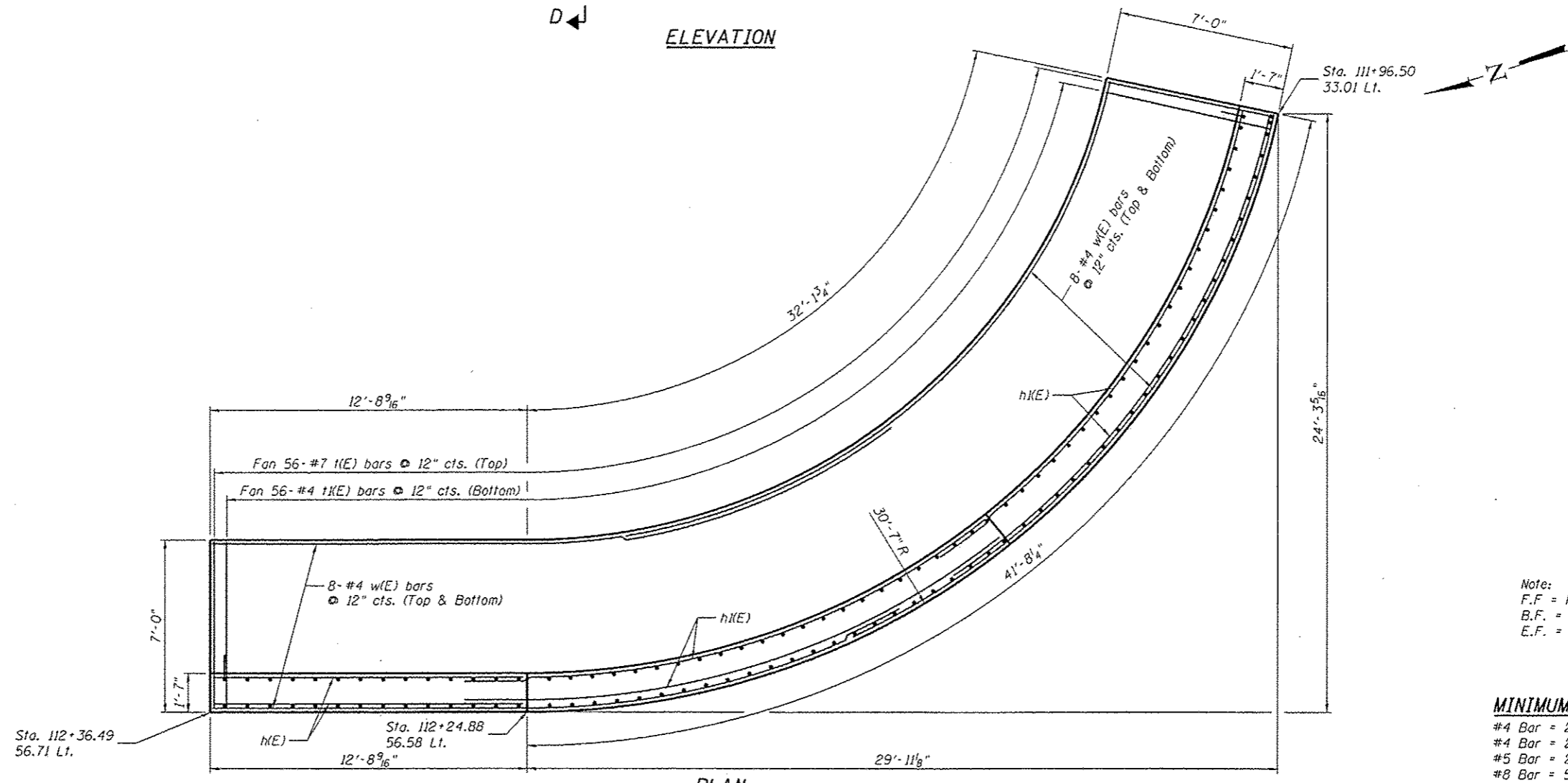




LAYOUT	9/25/12
DESIGN	5/28/13
REVIEWED	5/28/13
AMS	
RGC	



ELEVATION



PLAN

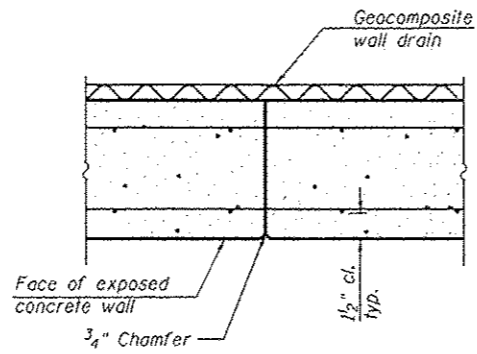
Note:  
 F.F. = Front Face  
 B.F. = Back Face  
 E.F. = Each Face

**MINIMUM BAR LAP**  
 #4 Bar = 2'-1" (Vertical)  
 #4 Bar = 2'-4" (Horizontal)  
 #5 Bar = 2'-7"  
 #8 Bar = 5'-2"

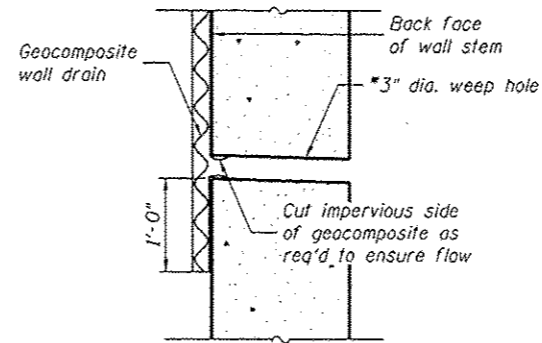
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	SHEET NO. 17 OF 32 SHEETS					

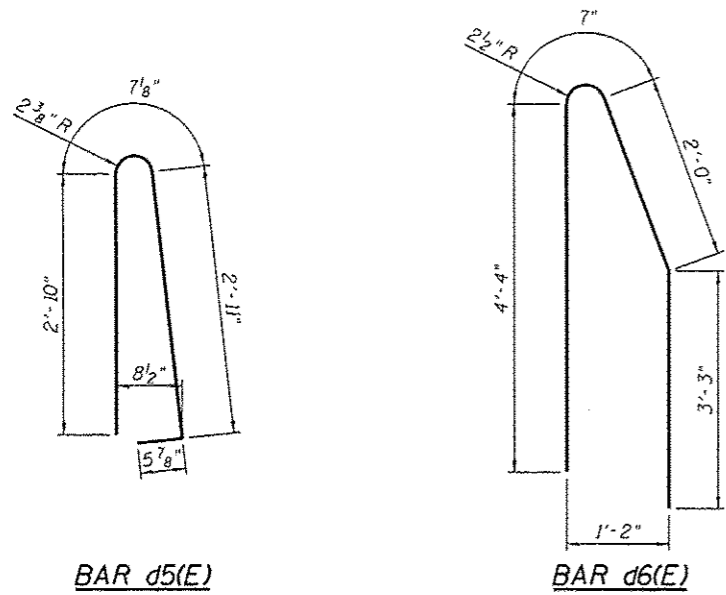
LAYOUT	9/25/12
DRAWN	KMS
REVIEWED	RGC



CONSTRUCTION JOINT

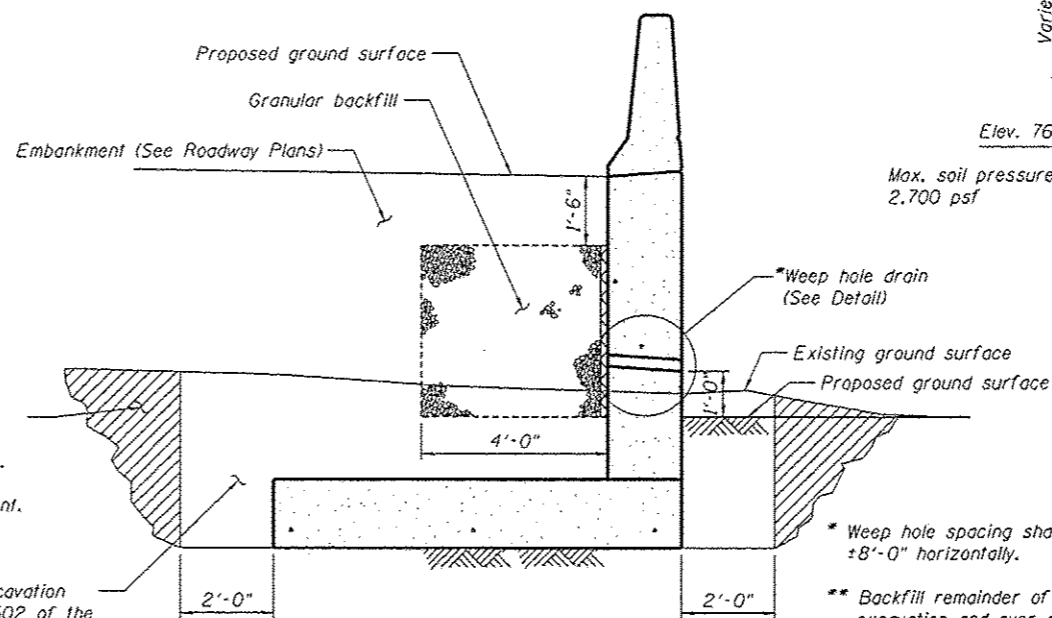


WEEP HOLE DRAIN DETAIL



BAR d5(E)

BAR d6(E)

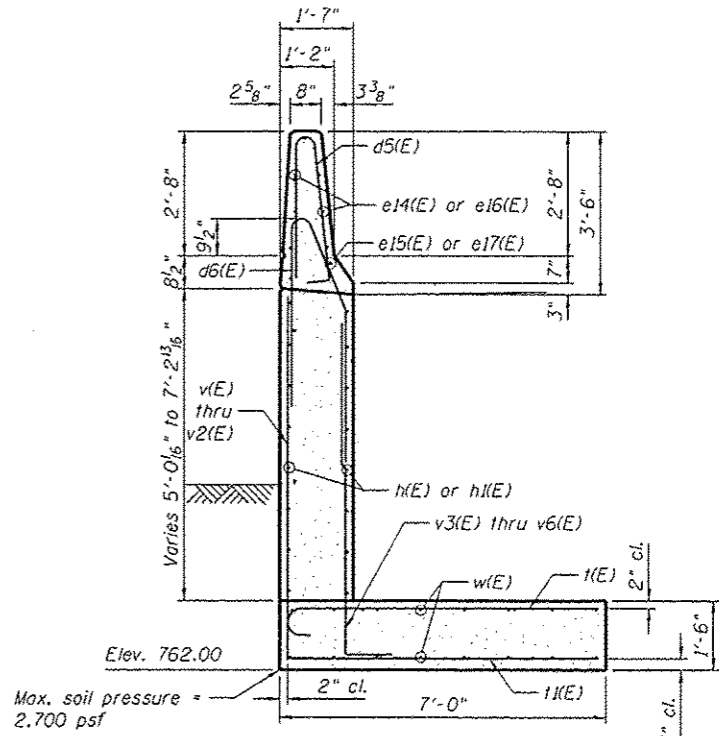


DRAINAGE DETAIL

\*\* Over excavation beyond the limits of structure excavation. this area not measured for payment.

\*\* Structure Excavation See Section 502 of the Standard Specifications

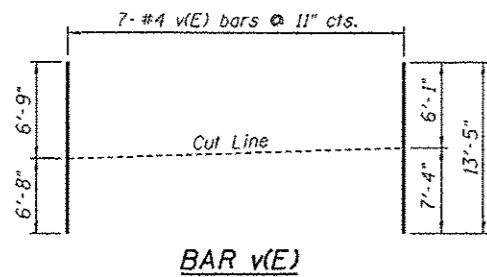
\* Weep hole spacing shall be at ±8'-0" horizontally.  
 \*\* Backfill remainder of structure excavation and over excavation with same material specified for roadway embankment.



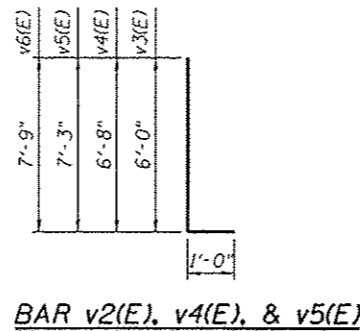
SECTION D-D

BILL OF MATERIAL

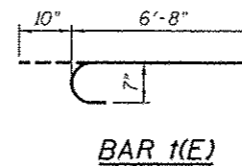
Bar	No.	Size	Length	Shape
d5(E)	60	#5	6'-10"	[U-shape]
d6(E)	60	#5	10'-2"	[U-shape]
e14(E)	8	#4	12'-4"	[Horizontal bar]
e15(E)	1	#8	12'-4"	[Horizontal bar]
e16(E)	16	#4	23'-2"	[Horizontal bar]
e17(E)	2	#8	26'-0"	[Horizontal bar]
h(E)	14	#4	12'-4"	[Horizontal bar]
h1(E)	32	#4	23'-2"	[Horizontal bar]
k(E)	56	#7	7'-6"	[U-shape]
k1(E)	56	#4	6'-8"	[U-shape]
v(E)	7	#4	13'-5"	[Horizontal bar]
v1(E)	23	#4	7'-4"	[Horizontal bar]
v2(E)	23	#4	7'-10"	[Horizontal bar]
v3(E)	7	#6	7'-0"	[Horizontal bar]
v4(E)	7	#6	7'-8"	[Horizontal bar]
v5(E)	23	#6	8'-3"	[Horizontal bar]
v6(E)	23	#6	8'-9"	[Horizontal bar]
w(E)	32	#4	28'-3"	[Horizontal bar]
Concrete Structures			Cu. Yd.	46.4
Reinforcement Bars, Epoxy Coated			Pound	4910



BAR v(E)



BAR v2(E), v4(E), & v5(E)



BAR k(E)

FILE NAME: c:\projects\sc\1\do-not-delete\4432571488802-89419-02-VSE.dwg

Professional Design Firm License # 184-001064



USER NAME	4432571488802-89419-02-VSE	DESIGNED	KMS	REVISED	-
CHECKED	RGC	REVISIONS	-	REVISIONS	-
DRAWN	KMS	REVISIONS	-	REVISIONS	-
CHECKED	5/29/13	REVISIONS	-	REVISIONS	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SEMINARY ST. DRIVEWAY WALL DETAILS  
STRUCTURE NOS. 048-8502 & 048-8503

SHEET NO. 18 OF 32 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	138
CONTRACT NO.			89419	
[ILLINOIS] FED. AID PROJECT				



**GROUND IMPROVEMENT PERFORMANCE REQUIREMENTS**

Allowable bearing pressure (F.S.+2.5) shall be equal to or greater than the equivalent uniform service bearing pressure shown on the plan view. Design bearing pressure shall be interpolated between the values shown on the plan.

Minimum factor of safety for global stability shall be 1.5.

Settlement measured at the theoretical top of leveling pad wall shall not exceed 4.0 inches.

Settlement measured at the base of the bridge abutment after installation of the piles shall not exceed 0.4 inches.

Differential settlement along the length of the M.S.E. wall shall not exceed 1.0 percent.

Differential settlement at right angles to the roadway centerline shall not exceed 0.5 percent after placement of the pavement.

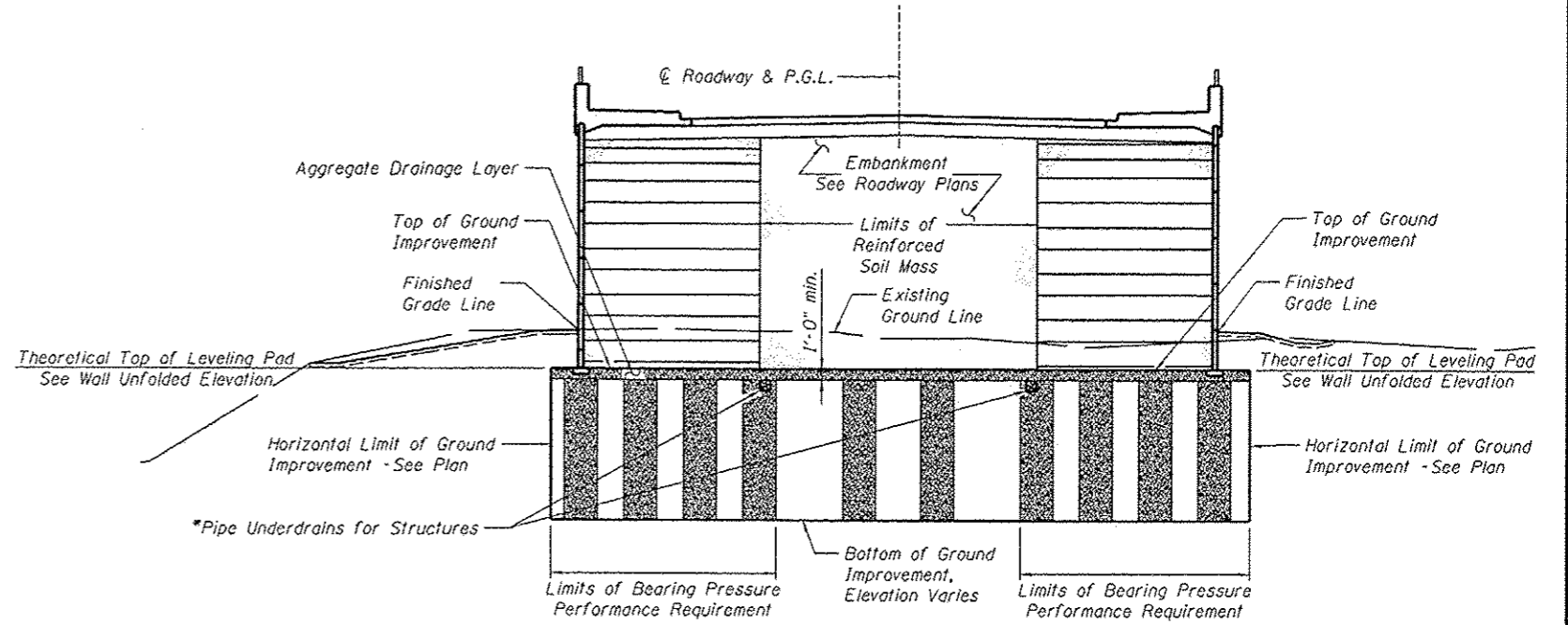
Contractor's verification program shall include monitoring points or other instrumentation to demonstrate compliance with the performance requirements shown on these plans and the construction sequencing requirements shown on sheets 21-22 of 30 of the bridge plans.

The assumed structure life for settlement computations shall be 75 years.

The Shop Drawings and construction procedures submittal shall indicate the sequence of construction within the limits of Aggregate Column Ground Improvement. The aggregate column installation shall be coordinated with utility removals, structure removals, proposed utility installation, culvert construction, and bridge pile driving.

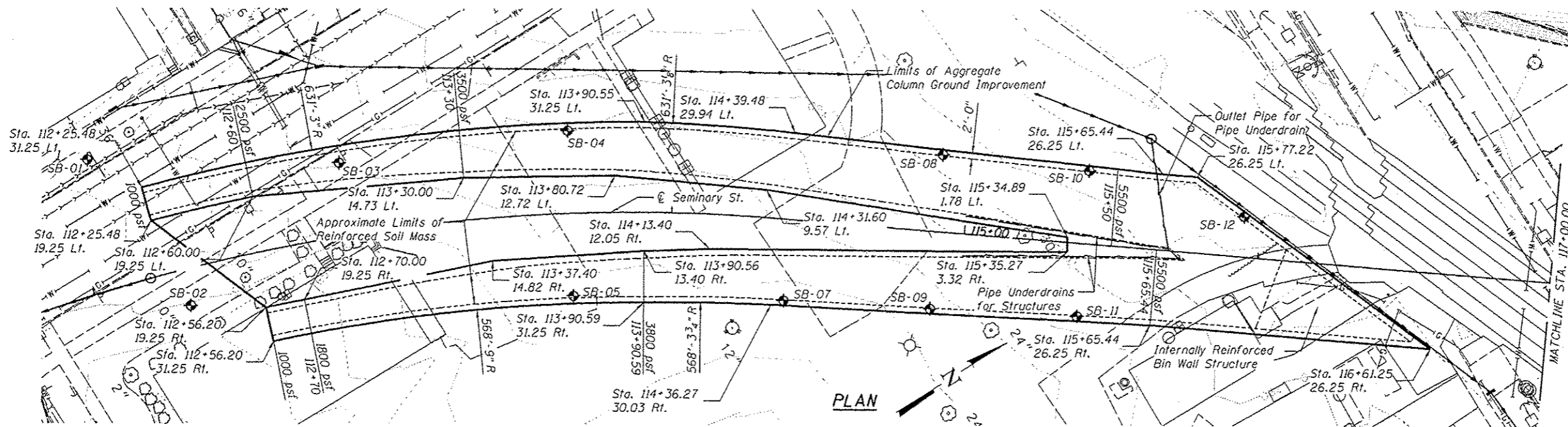
**LEGEND**

- ⊕ Boring
- 5900 psf Equivalent Uniform Service Bearing Pressure



**TYPICAL SECTION AT BACK TO BACK MSE WALLS**

\*Limits of Pipe Underdrains  
Sta. 115+00 to Sta. 119+00



**PLAN**

FILE NAME: c:\projects\work\11601\11601.dwg; USER: jms; DATE: 5/29/13; PLOT DATE: 5/29/13; PLOT SCALE: 1/8"=1'-0"; PLOT DATE: 5/29/13

Professional Design Firm License # 184-001064



USER NAME: doug00070	DESIGNED: KMS	REVISED: -
FLDT SCALE: 8/1667 1/16"	CHECKED: RGC	REVISED: -
FLDT DATE: 05/29/2013	DRAWN: KMS	REVISED: -
	CHECKED: 5/29/13	REVISED: -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOUTH WALL GROUND IMPROVEMENT DETAILS  
STRUCTURE NOS. 048-8502 & 048-8503**

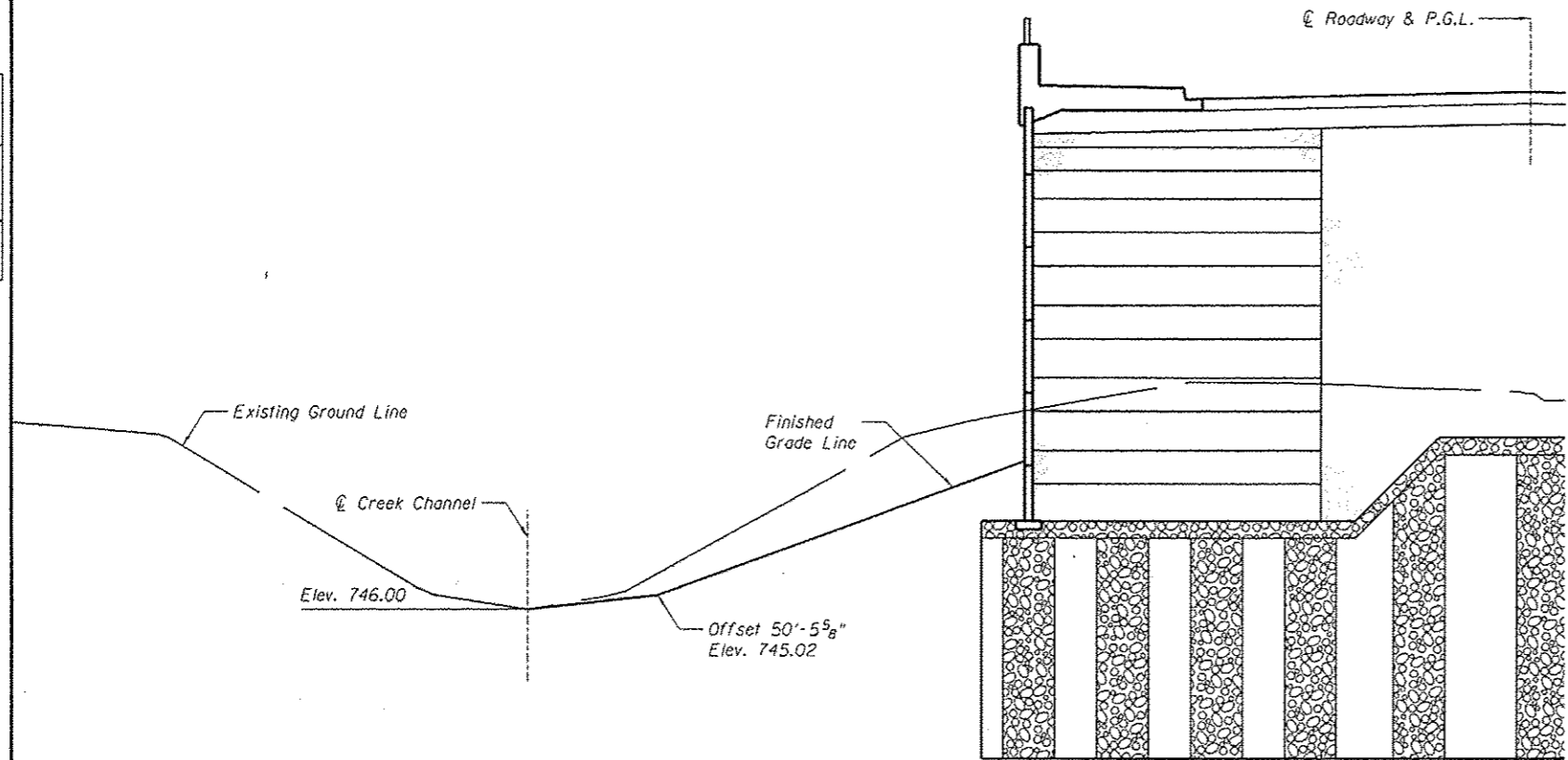
SHEET NO. 20 OF 32 SHEETS

F.A.U. RTE. 6801	SECTION 05-00501-21-G5	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 140
CONTRACT NO. 89419			ILLINOIS FED. AID PROJECT	

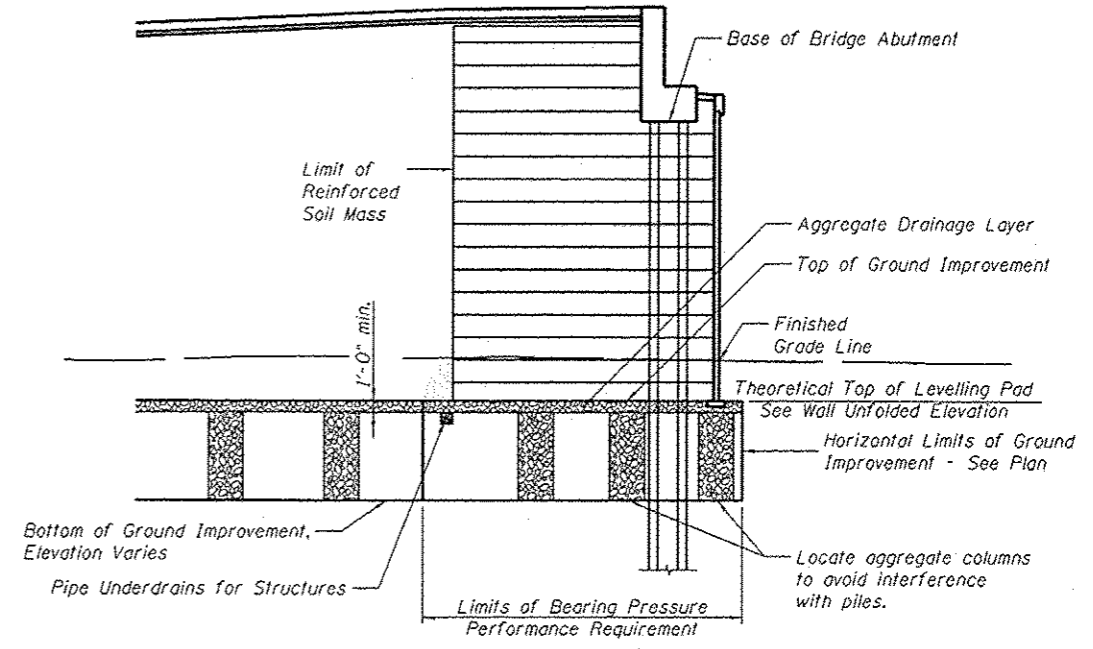




REVIEWED	RGC	5/24/13
DRAWN	KMS	5/24/13
LAYOUT	KMS	9/25/12



**SECTION E-E**  
Station 120+50



**TYPICAL SECTION AT ABUTMENTS**

FILE NAME: c:\projects\work\do\_not\_delete\user3257\895502-89419-802-HSE-M-11.dgn  
 Professional Design Firm License # 184-001284



USER NAME	• dawco0078	DESIGNED	- KMS	REVISED	-
		CHECKED	- RGC	REVISED	-
PLOT SCALE	• 8.1667 / 1" =	DRAWN	- KMS	REVISED	-
PLOT DATE	• 05/29/2013	CHECKED	- 5/29/13	REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GROUND IMPROVEMENT DETAILS  
STRUCTURE NOS. 048-8502 & 048-8503**

SHEET NO. 22 OF 32 SHEETS

F.A.U. RYE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	142
CONTRACT NO.			89419	
ILLINOIS FED. AID PROJECT				



LAYOUT  
DRAWN  
REVIEWED

5/25/12  
KMS  
3/11/13  
RGC  
5/24/13

**Wang Engineering, Inc.**  
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wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

**BORING LOG SB-04**  
WEI Job No.: 410-05-02  
Datum: NGVD  
Elevation: 762.40 ft  
North: 1560161.69 ft  
East: 2241501.08 ft  
Station: 113+65.40  
Offset: 28.6 LT

Client: **Hanson Professional Services**  
Project: **Seminary Street/Kellogg Street Grade Separation**  
Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
761.4	12-inch thick, dark brown SILTY LOAM -TOPSOIL- Very stiff, brown CLAY LOAM -FILL-	1	1	4 6 6	3.00	21
759.4	Stiff, dark brown SILTY LOAM, with trace organic matter -L=47%, P <sub>2</sub> =23% -% Gravel = 0.1% -% Sand = 3.4% -% Silt = 76.8% -% Clay = 19.7%	2	2	1 1 1	1.50	36
756.0	Stiff, brown SILTY CLAY LOAM	3	3	1 1 1	1.48	30
751.0	Medium dense, brown LOAM, little gravel	4	4	1 1 1	1.23	28
749.4	Very stiff, gray CLAY LOAM, little gravel	5	5	5 5 13	NP	18
747.4		6	6	5 5 12	3.77	17
Boring terminated at 15.00 ft						

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-21-2009	Complete Drilling	05-21-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

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**BORING LOG SB-05**  
WEI Job No.: 410-05-02  
Datum: NGVD  
Elevation: 762.40 ft  
North: 1560132.72 ft  
East: 2241550.37 ft  
Station: 113+65.40  
Offset: 28.6 RT

Client: **Hanson Professional Services**  
Project: **Seminary Street/Kellogg Street Grade Separation**  
Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
762.4	12-inch thick, CRUSHED STONE -GRAVEL PARKING LOT- Medium stiff, dark brown SILTY CLAY	1	1	2 2 2	0.75	31
759.4	Stiff, brown CLAY	2	2	4 5 6	1.75	22
758.0	Stiff to very stiff, brown SILTY CLAY LOAM	3	3	3 4 6	2.05	20
751.0	Very stiff, gray CLAY LOAM	4	4	2 3 4	1.23	20
747.4		5	5	4 5 10	2.54	14
747.4		6	6	2 4 12	2.62	21
Boring terminated at 15.00 ft						

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-21-2009	Complete Drilling	05-21-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

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Fax: 630 953-9938

**BORING LOG SB-07**  
WEI Job No.: 410-05-02  
Datum: NGVD  
Elevation: 761.90 ft  
North: 1560192.27 ft  
East: 2241590.06 ft  
Station: 114+40.40  
Offset: 28.2 RT

Client: **Hanson Professional Services**  
Project: **Seminary Street/Kellogg Street Grade Separation**  
Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (tsf)	Moisture Content (%)
761.9	8-inch thick, brown SILTY CLAY LOAM -TOPSOIL- Medium stiff, brown SILTY CLAY -FILL-	1	1	3 4 4	0.75	24
758.0	Stiff, brown SILTY CLAY	2	2	1 1 1	1.31	23
755.4	Stiff, brown SILTY LOAM to SILTY CLAY LOAM	3	3	3 4 6	1.31	22
751.4	Loose, brown SANDY LOAM	4	4	3 4 5	1.39	22
747.9	Very stiff, gray CLAY LOAM	5	5	3 3 6	NP	24
744.4		6	6	2 2 6	2.21	15
744.4		7	7	5 6 8	2.05	13
Boring terminated at 17.50 ft						

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-21-2009	Complete Drilling	05-21-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

	USER NAME: daws08878	DESIGNED: KMS	REVISIONS:	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BORING LOGS</b> <b>STRUCTURE NOS. 048-8502 &amp; 048-8503</b>	F.A.U. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
	PLOT SCALE: 8.1667" = 1'	CHECKED: RGC	REVISIONS:			6801	05-00501-21-GS	KNOX	269	144
	PLOT DATE: 05/29/2013	CHECKED: 5/29/13	REVISIONS:			CONTRACT NO. 89419		ILLINOIS FED. AID PROJECT		

Professional Design Firm License # 184-001084

SHEET NO. 24 OF 32 SHEETS

FILE NAME: c:\p\state\_work\do\_not\_delete\dwg\12087-04\B0502-8415-002-HSE-W11.dgn  
 WANGENG 4100501-21-GS1 WANGENG.GDT 7/25/09





9/25/13  
KMS  
3/11/13  
RCC  
LAYOUT  
DRAWN  
REVIEWED

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wangeng@wangeng.com  
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Fax: 630 953-9938

**BORING LOG SB-13**  
WEI Job No.: 410-05-02  
Client: Hanson Professional Services  
Project: Seminary Street/Kellogg Street Grade Separation  
Location: Section 05-00501-21-GS, Galesburg, Illinois

Datum: NGVD  
Elevation: 759.40 ft  
North: 1560462.72 ft  
East: 2241778.15 ft  
Station: 117+69.50  
Offset: 14.0 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Moisture Content (%)
759.4	12-inch thick, black SILTY LOAM -TOPSOIL-		1	1	37	733.9	Stiff to very stiff, gray CLAY, little gravel	10	2	3.28	14
759.0	4-inch thick, crushed brick fragments -FILL-							11	5	NR	
753.0	Very loose, dark brown SANDY LOAM to LOAM		2	NP	29			12	3	4.6	17
753.0	Medium stiff to stiff, black ORGANIC SILTY CLAY LOAM		3	1.25	35			13	5	7.9	16
746.9	Loose to medium dense, brown and gray, medium SAND to SANDY LOAM		4	0.98	27			14	5	9	16
746.9	Loose to medium dense, brown and gray, medium SAND to SANDY LOAM		5	NP	16			15	5	7	10
742.9	Stiff to very stiff, gray SILTY CLAY LOAM		6	NP	31			16	5	7	10
737.7	Medium dense, gray, fine SAND		7	3.36	15			17	3	0.3	16
			8	1.72	16			18	5	7	10
			9	NP				19	5	7	10

**GENERAL NOTES**  
Begin Drilling 05-20-2009 Complete Drilling 05-20-2009  
Drilling Contractor Whitney & Assoc., Inc. Drill Rig Diedrich D-50 ATV  
Driller Tim Logger B. Wilson Checked by E. Datz  
Drilling Method 3.25-inch IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
While Drilling 11.00 ft  
At Completion of Drilling  
Time After Drilling 24 hr hours  
Depth to Water 9.50 ft  
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual

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Telephone: 630 953-9928  
Fax: 630 953-9938

**BORING LOG SB-13**  
WEI Job No.: 410-05-02  
Client: Hanson Professional Services  
Project: Seminary Street/Kellogg Street Grade Separation  
Location: Section 05-00501-21-GS, Galesburg, Illinois

Datum: NGVD  
Elevation: 759.40 ft  
North: 1560462.72 ft  
East: 2241778.15 ft  
Station: 117+69.50  
Offset: 14.0 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Moisture Content (%)
759.4	12-inch thick, black SILTY LOAM -TOPSOIL-		1	1	37	733.9	Stiff to very stiff, gray CLAY, little gravel	10	2	3.28	14
759.0	4-inch thick, crushed brick fragments -FILL-							11	5	NR	
753.0	Very loose, dark brown SANDY LOAM to LOAM		2	NP	29			12	3	4.6	17
753.0	Medium stiff to stiff, black ORGANIC SILTY CLAY LOAM		3	1.25	35			13	5	7.9	16
746.9	Loose to medium dense, brown and gray, medium SAND to SANDY LOAM		4	0.98	27			14	5	9	16
746.9	Loose to medium dense, brown and gray, medium SAND to SANDY LOAM		5	NP	16			15	5	7	10
742.9	Stiff to very stiff, gray SILTY CLAY LOAM		6	NP	31			16	5	7	10
737.7	Medium dense, gray, fine SAND		7	3.36	15			17	3	0.3	16
			8	1.72	16			18	5	7	10
			9	NP				19	5	7	10

**GENERAL NOTES**  
Begin Drilling 05-20-2009 Complete Drilling 05-20-2009  
Drilling Contractor Whitney & Assoc., Inc. Drill Rig Diedrich D-50 ATV  
Driller Tim Logger B. Wilson Checked by E. Datz  
Drilling Method 3.25-inch IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
While Drilling 11.00 ft  
At Completion of Drilling  
Time After Drilling 24 hr hours  
Depth to Water 9.50 ft  
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual

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**BORING LOG SB-14**  
WEI Job No.: 410-05-02  
Client: Hanson Professional Services  
Project: Seminary Street/Kellogg Street Grade Separation  
Location: Section 05-00501-21-GS, Galesburg, Illinois

Datum: NGVD  
Elevation: 756.50 ft  
North: 1560666.04 ft  
East: 2241939.82 ft  
Station: 120+16.00  
Offset: 53.5 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Moisture Content (%)
756.5	8-inch thick, black SILTY LOAM -TOPSOIL-		1	1.25	24			1	1	1.25	24
	Medium stiff to stiff, dark brown CLAY		2	0.66	28			2	1	0.66	28
	Medium stiff, brown and gray SILTY CLAY LOAM		3	0.82	22			3	1	0.82	22
	Loose to medium dense, gray, fine to coarse SAND		4	0.57	24			4	1	0.57	24
	Loose to medium dense, gray, fine to coarse SAND		5	NP	24			5	1	NP	24
			6	NP	18			6	1	NP	18
			7	NP	25			7	11	12	13

**GENERAL NOTES**  
Begin Drilling 05-19-2009 Complete Drilling 05-19-2009  
Drilling Contractor Whitney & Assoc., Inc. Drill Rig Diedrich D-50 ATV  
Driller Tim Logger B. Wilson Checked by E. Datz  
Drilling Method 3.25-inch IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
While Drilling 12.30 ft  
At Completion of Drilling 5.00 ft  
Time After Drilling NA  
Depth to Water NA  
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual

Professional Design Firm License # 184-001084

**HANSON** USER NAME: d00908870 DESIGNED: KMS CHECKED: RCC REVISIONS: NONE  
PLOT SCALE: 8.1667' / 1" DRAWN: KMS REVISIONS: NONE  
PLOT DATE: 05/29/2013 CHECKED: 5/29/13 REVISIONS: NONE

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**BORING LOGS**  
STRUCTURE NOS. 048-8502 & 048-8503  
SHEET NO. 27 OF 32 SHEETS

F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
6801 05-00501-21-GS KNOX 269 147  
CONTRACT NO. 89419  
ILLINOIS FED. AID PROJECT

LAYOUT	3/25/12
DRAWN	3/11/13
REVIEWED	5/24/13

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**BORING LOG SB-15**  
 WEI Job No.: 410-05-02

Datum: NGVD  
 Elevation: 759.10 ft  
 North: 1560523.12 ft  
 East: 2241774.56 ft  
 Station: 118+15.40  
 Offset: 25.4 LT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

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**BORING LOG SB-16**  
 WEI Job No.: 410-05-02

Datum: NGVD  
 Elevation: 759.10 ft  
 North: 1560492.38 ft  
 East: 2241814.93 ft  
 Station: 118+15.40  
 Offset: 25.3 RT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

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**BORING LOG SB-17**  
 WEI Job No.: 410-05-02

Datum: NGVD  
 Elevation: 758.30 ft  
 North: 1560563.49 ft  
 East: 2241800.66 ft  
 Station: 118+65.40  
 Offset: 27.6 LT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (ksf)	Moisture Content (%)
758.1	12-inch thick, brown SILTY LOAM -TOPSOIL- Loose, brown SANDY LOAM	1	1	1	NP	10		758.1							
750.1	Loose, black LOAM	2	2	2	NP	31		750.1							
752.6	Stiff, dark brown SILTY CLAY LOAM	3	3	3	1.40	26		752.6							
		4	4	4	1.15	28									
747.1	Loose, gray LOAM	5	5	5	NP	17		747.1							
745.1	Very stiff, gray CLAY	6	6	6	2.46	16		745.1							
743.6	Very stiff to hard, gray CLAY LOAM	7	7	7	4.50	11		743.6							
		8	8	8	3.03	14									
		9	9	9	3.53	14									
739.6	Boring terminated at 22.50 ft							739.6							

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (ksf)	Moisture Content (%)
754.2	12-inch thick CRUSHED STONE -GRAVEL DRIVEWAY- 10-inch thick, black SILTY LOAM -TOPSOIL- Stiff to very stiff, dark brown CLAY LOAM	1	1	1	1.25	19		754.2							
	-FILL-	2	2	2	2.25	22									
754.6	Medium stiff to stiff, black and brown SILTY CLAY LOAM -L <sub>c</sub> =48%, P <sub>c</sub> =20% -% Gravel = % -% Sand = % -% Silt = % -% Clay = %	3	3	3	1.23	27		754.6							
		4	4	4	0.57	36									
748.6	Loose to medium dense, brown and gray, fine SAND	5	5	5	NP	14		748.6							
		6	6	6	NP	26									
		7	7	7	NP	18									
		8	8	8	NP	18									
		9	9	9	NP	19									
739.6	Boring terminated at 22.50 ft							739.6							

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (ksf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blows/in)	Qu (ksf)	Moisture Content (%)
757.6	16-inch thick, brown SILTY LOAM -TOPSOIL- Medium stiff, brown and gray SILTY CLAY	1	1	1	NR			757.6							
		2	2	2	0.75	26									
752.6	Medium stiff to stiff, black SILTY CLAY LOAM	3	3	3	1.45	23		752.6							
		4	4	4	0.74	25									
747.6	Very loose, gray SANDY LOAM	5	5	5	NP	20		747.6							
744.6	Medium stiff, gray CLAY -L <sub>c</sub> =40%, P <sub>c</sub> =22%-	6	6	6	0.74	29		744.6							
		7	7	7	0.57	24									
739.3	Medium dense, gray, fine SAND	8	8	8	NP	29		739.3							
737.6	Hard, gray CLAY LOAM	9	9	9	4.50	13		737.6							
735.8	Boring terminated at 22.50 ft							735.8							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-18-2009	Complete Drilling	05-18-2009
Drilling Contractor	Whitney & Assoc. Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-19-2009	Complete Drilling	05-19-2009
Drilling Contractor	Whitney & Assoc. Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-18-2009	Complete Drilling	05-18-2009
Drilling Contractor	Whitney & Assoc. Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

Professional Design Firm License # 184-901084

<b>HANSON</b>	USER NAME	DESIGNED	REVISIONS	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BORING LOGS</b> <b>STRUCTURE NOS. 048-8502 &amp; 048-8503</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE	CHECKED	REVISIONS			6801	05-00501-21-GS	KNOX	269	148
	PLOT DATE	DRAWN	REVISIONS			CONTRACT NO. 89419				
		CHECKED	REVISIONS			ILLINOIS FE0, A10 PROJECT				

SHEET NO. 28 OF 32 SHEETS

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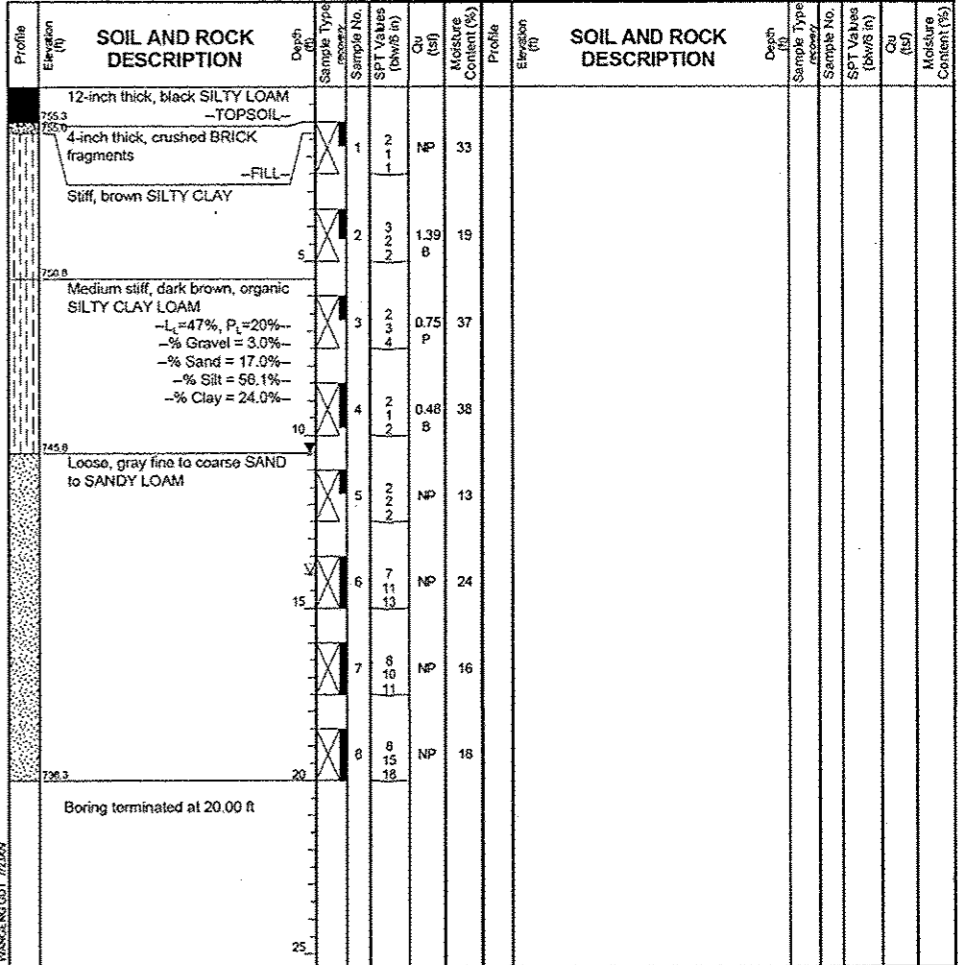
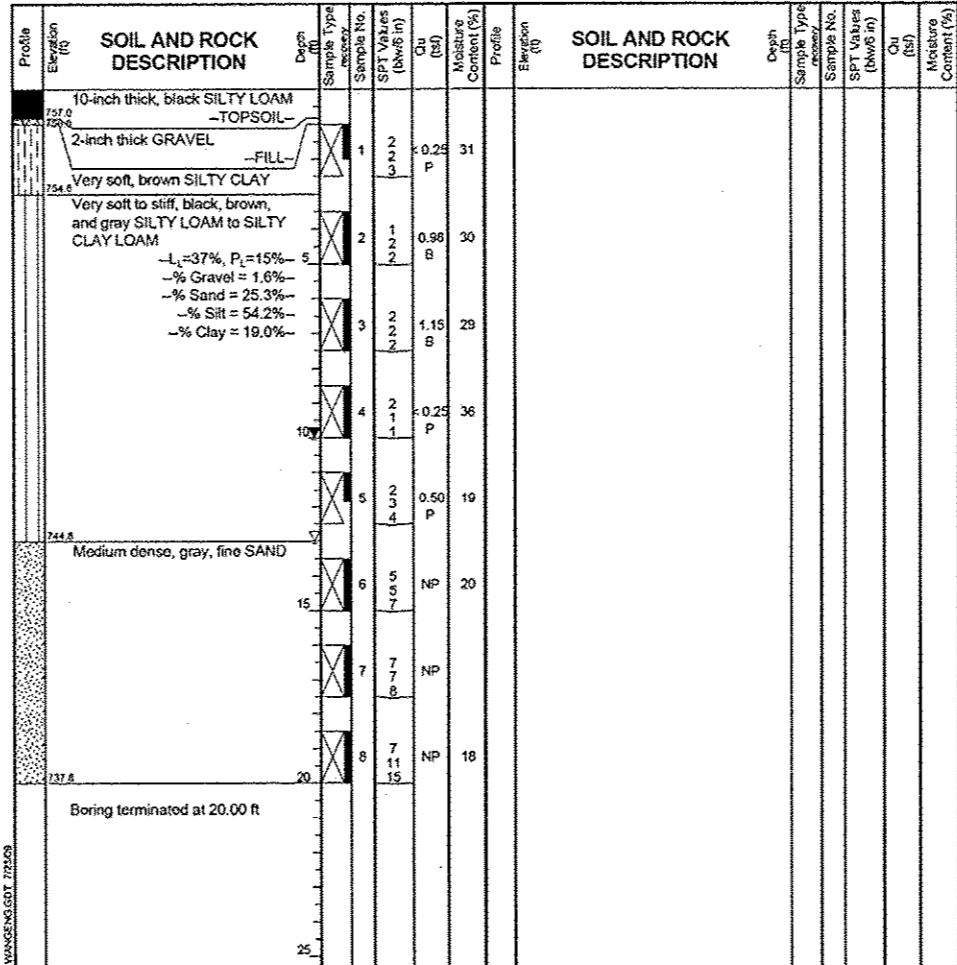
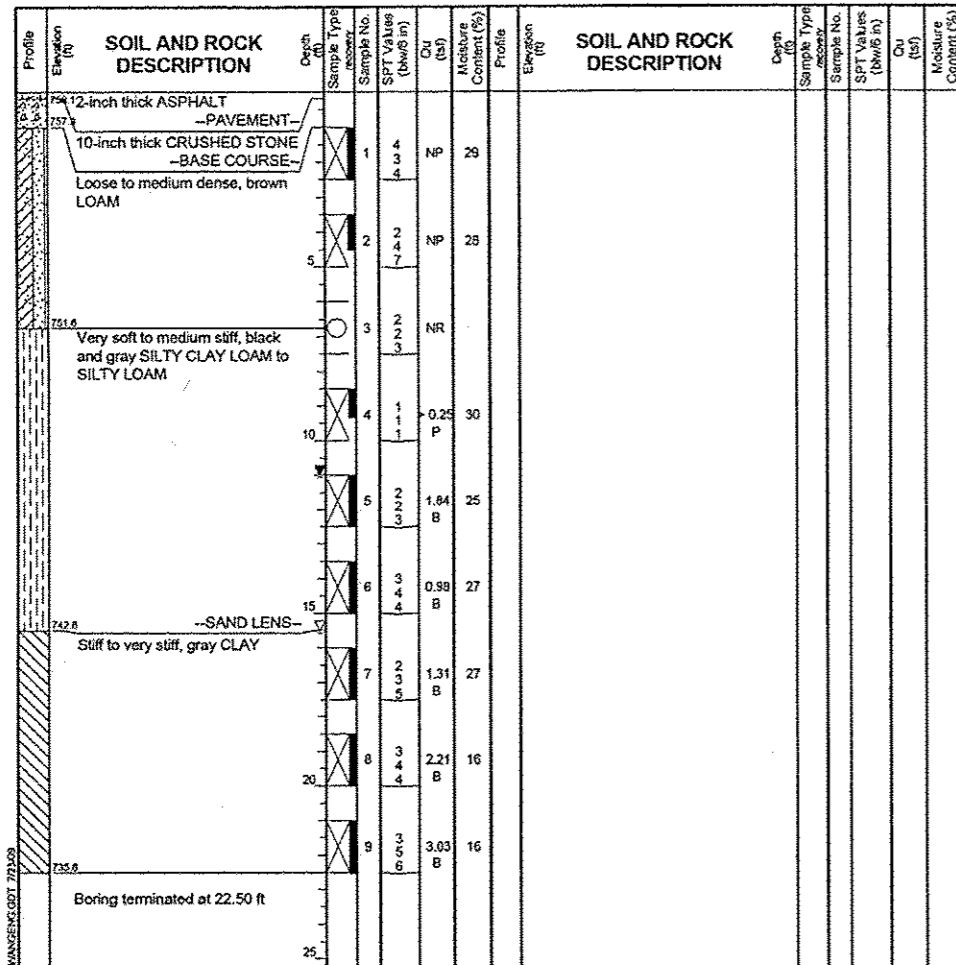


LAYOUT	9/25/12
DRAWN	KMS
REVIEWED	3/11/13
	5/24/13

**BORING LOG SB-18** Page 1 of 1  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 758.30 ft  
 North: 1560533.49 ft  
 East: 2241846.74 ft  
 Station: 118+65.40  
 Offset: 27.4 RT  
 Client: Hanson Professional Services  
 Project: Seminary Street/Kellogg Street Grade Separation  
 Location: Section 05-00501-21-GS, Galesburg, Illinois

**BORING LOG SB-19** Page 1 of 1  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 757.80 ft  
 North: 1560568.81 ft  
 East: 2241891.30 ft  
 Station: 119+15.40  
 Offset: 47.7 RT  
 Client: Hanson Professional Services  
 Project: Seminary Street/Kellogg Street Grade Separation  
 Location: Section 05-00501-21-GS, Galesburg, Illinois

**BORING LOG SB-20** Page 1 of 1  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 756.30 ft  
 North: 1560647.80 ft  
 East: 2241844.90 ft  
 Station: 119+65.40  
 Offset: 28.6 LT  
 Client: Hanson Professional Services  
 Project: Seminary Street/Kellogg Street Grade Separation  
 Location: Section 05-00501-21-GS, Galesburg, Illinois



**GENERAL NOTES**  
 Begin Drilling 05-18-2009 Complete Drilling 05-18-2009  
 Drilling Contractor Whitney & Assoc., Inc. Drill Rig Diederich D-50 ATV  
 Driller Tim Logger B. Wilson Checked by E. Datz  
 Drilling Method 3.25-inch IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling 15.50 ft  
 At Completion of Drilling 11.00 ft  
 Time After Drilling NA  
 Depth to Water NA  
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**GENERAL NOTES**  
 Begin Drilling 05-18-2009 Complete Drilling 05-18-2009  
 Drilling Contractor Whitney & Assoc., Inc. Drill Rig Diederich D-50 ATV  
 Driller Tim Logger B. Wilson Checked by E. Datz  
 Drilling Method 3.25-inch IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling 13.00 ft  
 At Completion of Drilling 10.00 ft  
 Time After Drilling NA  
 Depth to Water NA  
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

**GENERAL NOTES**  
 Begin Drilling 05-18-2009 Complete Drilling 05-18-2009  
 Drilling Contractor Whitney & Assoc., Inc. Drill Rig Diederich D-50 ATV  
 Driller Tim Logger B. Wilson Checked by E. Datz  
 Drilling Method 3.25-inch IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling 14.00 ft  
 At Completion of Drilling 10.50 ft  
 Time After Drilling NA  
 Depth to Water NA  
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Professional Design Firm License # 154-001084

USER NAME: davis08078	DESIGNED: KMS	REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS STRUCTURE NOS. 048-8502 & 048-8503 SHEET NO. 29 OF 32 SHEETS	F.A.U. RTE. 6801	SECTION 05-00501-21-GS	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 149
PLOT SCALE: 8.1667' / 1" =	CHECKED: RGC	REVISED:			CONTRACT NO. 89419				
PLOT DATE: 05/29/2013	DRAWN: KMS	REVISED:			ILLINOIS FED. AID PROJECT				
	CHECKED: 5/29/13	REVISED:							

DATE	BY	REVIEWED
9/25/12	KMS	
3/1/13	RGC	
5/24/13	RGC	

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 Fax: 630 953-9938

**BORING LOG SB-21**  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 756.30 ft  
 North: 1560624.99 ft  
 East: 2241897.32 ft  
 Station: 119+65.40  
 Offset: 28.6 RT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (ksi)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (ksi)	Moisture Content (%)
756.2	12-inch thick ASPHALT --PAVEMENT--												
	7-inch thick CRUSHED STONE --BASE COURSE--												
755.3	Very loose, brown LOAM with some gravel and brick fragments --FILL--	1	2	1	NP	20							
	Very soft to medium stiff, brown and gray SILTY LOAM to SILTY CLAY LOAM	2	1	2	0.75	32							
		3	2	2	0.98	23							
		4	2	1	<0.25	25							
		5	1	1	<0.25	31							
		6	1	0	<0.25	35							
749.8	Medium dense, fine gray SAND	7	8	11	NP	18							
736.3	Boring terminated at 20.00 ft	8	8	10	NP	14							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-19-2009	Complete Drilling	05-19-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Depth to Water	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion		

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**BORING LOG SB-22**  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 756.50 ft  
 North: 1560692.20 ft  
 East: 2241862.06 ft  
 Station: 120+15.40  
 Offset: 28.6 LT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (ksi)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (ksi)	Moisture Content (%)
755.5	12-inch thick SILTY LOAM --TOPSOIL--												
	Loose, brown LOAM	1	3	2	NP	28							
753.5	Stiff, brown SILTY CLAY LOAM	2	2	2	1.23	23							
		3	3	4	1.59	25							
747.8	Very stiff, brown CLAY	4	2	4	2.13	26							
745.0	Stiff, black and gray SILTY CLAY LOAM	5	3	5	1.39	19							
743.5	Medium dense, gray, medium to coarse SAND	6	5	6	NP	24							
739.0	Boring terminated at 17.50 ft	7	7	9	NP	25							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-19-2009	Complete Drilling	05-19-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Depth to Water	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion		

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**BORING LOG SB-23**  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 756.40 ft  
 North: 1560759.10 ft  
 East: 2241940.72 ft  
 Station: 121+00.00  
 Offset: 30.7 RT

Client: **Hanson Professional Services**  
 Project: **Seminary Street/Kellogg Street Grade Separation**  
 Location: **Section 05-00501-21-GS, Galesburg, Illinois**

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (ksi)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Cu (ksi)	Moisture Content (%)
755.2	15-inch thick black SILTY LOAM --TOPSOIL--												
	Medium stiff to stiff, brown SILTY CLAY --FILL--	1	2	3	1.25	21							
		2	2	2	0.75	P							
	Medium dense, gray SILTY LOAM	3	5	13	NP	14							
		4	6	9	3.20	18							
		5	4	7	1.50	18							
		6	3	4	1.64	14							
749.0	Medium dense, gray, fine SANDY LOAM	7	4	7	NP	19							
738.4	Very stiff, gray CLAY LOAM	8	3	4	2.21	16							
		9	4	5	2.21	15							
		10	6	7	2.71	15							
733.4	Very stiff, gray CLAY	11	5	9	3.53	15							
		12	5	13	NP	14							
		13	6	8	3.20	18							
		14	5	9	3.53	15							
		15	3	6	3.77	16							
		16	6	7	4.10	16							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-20-2009	Complete Drilling	05-20-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Depth to Water	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion		

Professional Design Firm License # 164-001064

**HANSON** USER NAME: davis00078 DESIGNED: KMS CHECKED: RGC DRAWN: KMS CHECKED: 5/29/13

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUCTURE NOS. 048-8502 & 048-8503

F.A.U. RTE. 6801 SECTION 05-00501-21-GS COUNTY KNOX TOTAL SHEETS 269 SHEET NO. 150 CONTRACT NO. 89419

SHEET NO. 30 OF 32 SHEETS

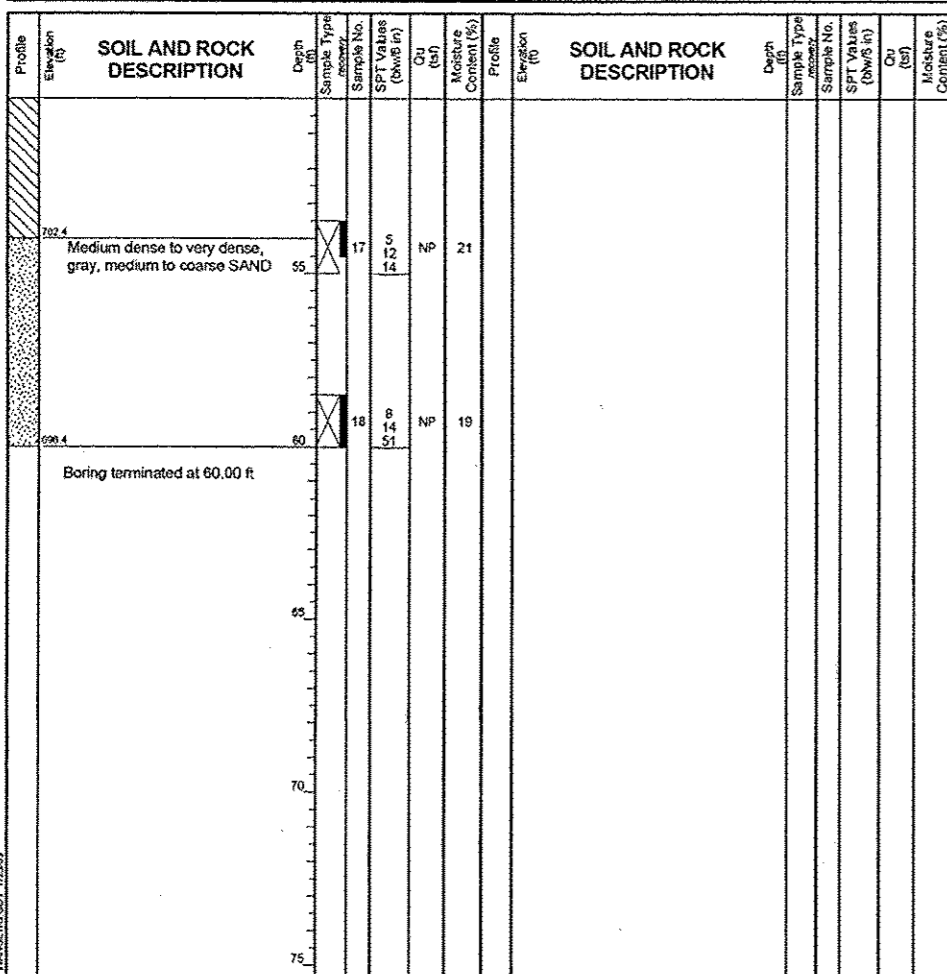
ILLINOIS FED. AID PROJECT

LAYOUT	KMS	5/25/12
DRAWN	KMS	3/11/13
REVIEWED	RCG	5/24/13

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**BORING LOG SB-23** Page 2 of 2  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 756.40 ft  
 North: 1560759.10 ft  
 East: 2241940.72 ft  
 Station: 121+00.00  
 Offset: 30.7 RT

Client: Hanson Professional Services  
 Project: Seminary Street/Kellogg Street Grade Separation  
 Location: Section 05-00501-21-GS, Galesburg, Illinois

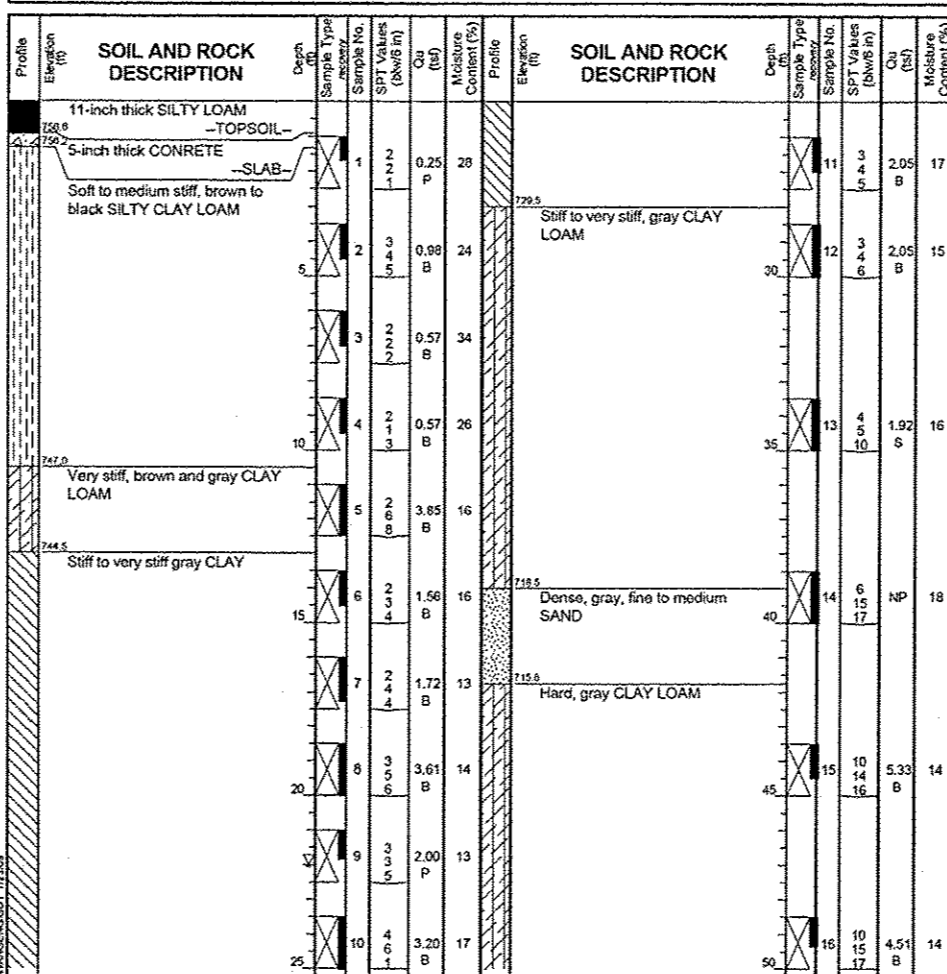


GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-20-2009	Complete Drilling	05-20-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

**Wang Engineering, Inc.**  
 Consulting Geotechnical and Environmental Engineers  
 wangeng@wangeng.com  
 1145 N Main Street  
 Lombard, IL 60148  
 Telephone: 630 953-9928  
 Fax: 630 953-9938

**BORING LOG SB-25** Page 1 of 2  
 WEI Job No.: 410-05-02  
 Datum: NGVD  
 Elevation: 757.50 ft  
 North: 1560835.44 ft  
 East: 2241943.03 ft  
 Station: 121+73.00  
 Offset: 23.4 RT

Client: Hanson Professional Services  
 Project: Seminary Street/Kellogg Street Grade Separation  
 Location: Section 05-00501-21-GS, Galesburg, Illinois

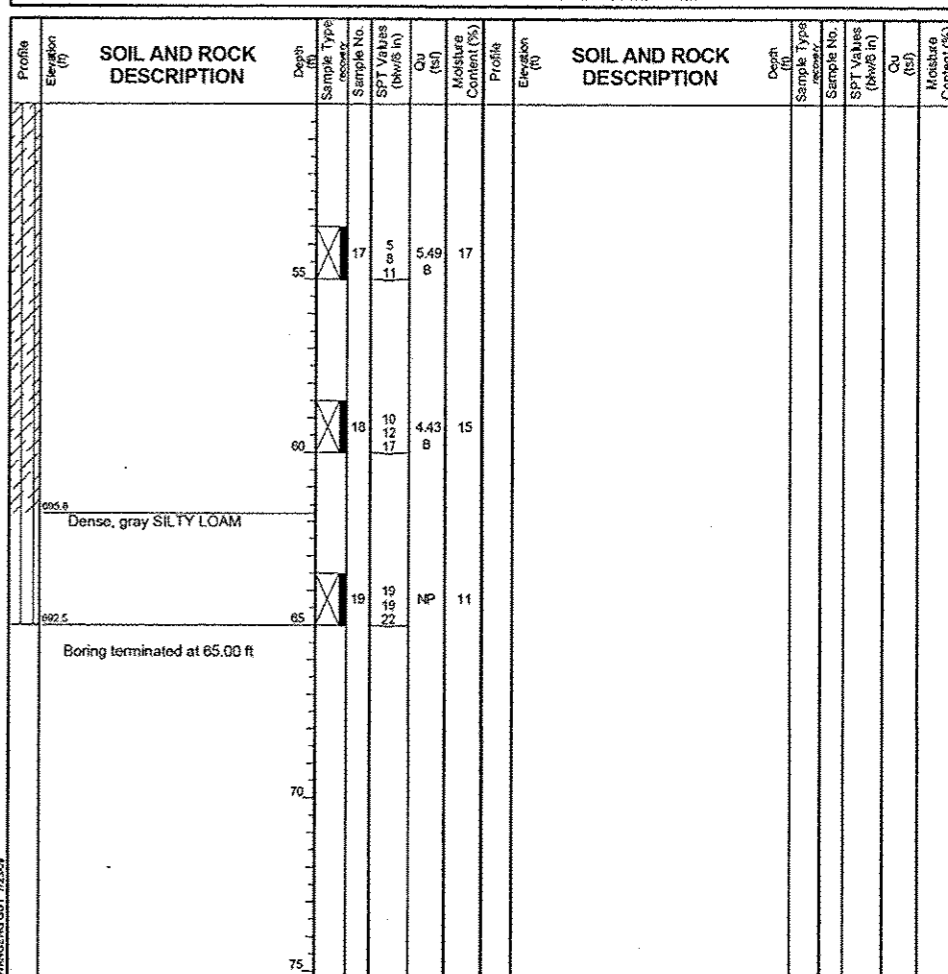


GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-22-2009	Complete Drilling	05-22-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

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**BORING LOG SB-25** Page 2 of 2  
 WEI Job No.: 410-05-02  
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Client: Hanson Professional Services  
 Project: Seminary Street/Kellogg Street Grade Separation  
 Location: Section 05-00501-21-GS, Galesburg, Illinois



GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	05-22-2009	Complete Drilling	05-22-2009
Drilling Contractor	Whitney & Assoc., Inc.	Drill Rig	Diedrich D-50 ATV
Driller	Tim	Logger	B. Wilson
Checked by	E. Datz	Time After Drilling	NA
Drilling Method	3.25-inch IDA HSA; Boring backfilled upon completion	Depth to Water	NA

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PLOT DATE	05/29/2013	DRAWN	KMS	REVISION	-
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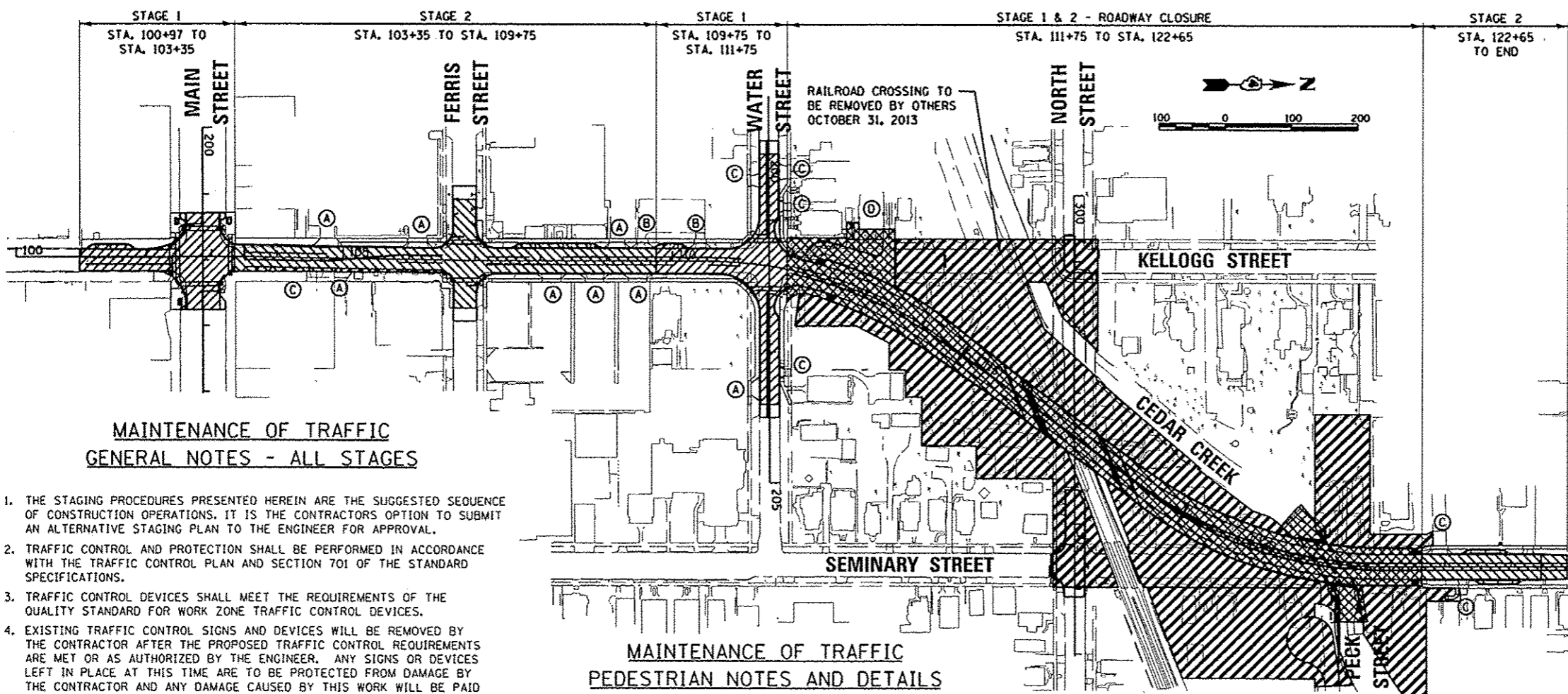
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BORING LOGS  
 STRUCTURE NOS. 048-8502 & 048-8503

SHEET NO. 31 OF 32 SHEETS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6801	05-00501-21-GS	KNOX	269	151
CONTRACT NO.			89419	

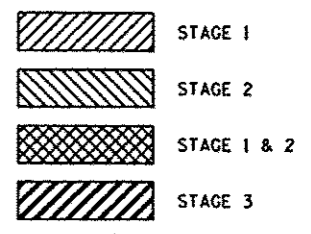




**ENTRANCE CONSTRUCTION REQUIREMENTS:**

- (A) CLOSURE OF ENTRANCE PAVEMENT AND/OR ALLEY ACCEPTABLE DUE TO ACCESS OFF ADJACENT ROADWAYS.
- (B) SHUT DOWN ONLY ONE ENTRANCE AT A TIME TO MAINTAIN ACCESS TO PARKING LOT OVER STAGE 1 AND STAGE 3.
- (C) ACCESS TO DRIVEWAYS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- (D) ACCESS TO PROPERTIES ALONG KELLOGG STREET FROM WATER STREET TO NORTH STREET TO BE MAINTAINED FROM WATER STREET UNTIL NEW ENTRANCE IS OPERATIONAL. ENTRANCE MUST BE COMPLETE OR TEMPORARY ACCESS ROAD FROM NORTH STREET TO KELLOGG STREET MUST BE OPEN BY OCTOBER 31, 2013 BEFORE EXISTING KELLOGG STREET RAILROAD CROSSING IS REMOVED BY OTHERS.

**STAGING LEGEND**



**MAINTENANCE OF TRAFFIC  
GENERAL NOTES - ALL STAGES**

1. THE STAGING PROCEDURES PRESENTED HEREIN ARE THE SUGGESTED SEQUENCE OF CONSTRUCTION OPERATIONS. IT IS THE CONTRACTORS OPTION TO SUBMIT AN ALTERNATIVE STAGING PLAN TO THE ENGINEER FOR APPROVAL.
2. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND SECTION 701 OF THE STANDARD SPECIFICATIONS.
3. TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES.
4. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES WILL BE REMOVED BY THE CONTRACTOR AFTER THE PROPOSED TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER. ANY SIGNS OR DEVICES LEFT IN PLACE AT THIS TIME ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THIS WORK WILL BE PAID FOR BY THE CONTRACTOR.
5. THE FOLLOWING TRAFFIC CONTROL STANDARDS ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC CONTROL FOR THIS PROJECT: 701001, 701006, 701301, 701311, 701501, 701502, 701701, 701801, AND 701901.
6. TYPE III BARRICADES, DRUMS, AND TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT THE LIMITS OF THE WORK ZONE AS SHOWN ON THE DETOUR SIGNAGE PLAN AND AS REQUIRED BY THE TRAFFIC CONTROL STANDARDS.
7. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS WHEN IN CONFLICT WITH PROPOSED TEMPORARY PAVEMENT MARKINGS. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
8. DRUMS SHALL BE EQUIPPED WITH STEADY BURNING LIGHTS AND PLACED AT 20 FOOT CENTERS ON TAPER SECTIONS AND AT 20 FOOT CENTERS ON TANGENT.
9. ALL ADVANCED WARNING SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE AND APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY STAGE OF CONSTRUCTION.
10. TRAFFIC CONTROL SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
11. ARROW BOARDS ARE REQUIRED FOR LANE CLOSURES AS SHOWN ON THE TRAFFIC CONTROL STANDARDS. ARROW BOARDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
12. THE FURNISHING, INSTALLATION AND RELOCATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STATE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
13. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE LUMP SUM COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
14. FOR STABILIZATION PURPOSES, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

**MAINTENANCE OF TRAFFIC  
PEDESTRIAN NOTES AND DETAILS**

1. THE CONTRACTOR MUST MAINTAIN A CONTINUOUS 5 FOOT PEDESTRIAN ZONE THROUGH THE WORK ZONE. ANY SIDEWALK DETOUR MUST BE CLEARLY MARKED USING SIGNS AND BARRICADES NOTIFYING PEDESTRIANS OF THE CLOSURE, IN ACCORDANCE WITH PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG), MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARDS.
2. PEDESTRIAN ACCESS MUST BE MAINTAINED TO ALL BUILDINGS INSIDE CLOSURE AREAS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RESIDENCES, BUSINESSES AND OTHER FACILITIES ARE ACCESSIBLE AT ALL TIMES.
3. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS (MIN. 5') TO ADJACENT PROPERTIES (WHERE APPLICABLE) BY INSTALLING ADA COMPLIANT PLYWOOD WALKWAYS. PEDESTRIAN ACCESS TO ADJACENT PROPERTIES SHALL BE UNINTERRUPTED UNTIL THE WALKWAY IS FULLY RESTORED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF SIGNAGE AND OTHER ITEMS TO ENSURE SAFE PEDESTRIAN ACCESS.
4. USE ONE "PEDESTRIAN WALKWAY (ARROW)" (BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND) SIGN AT EACH END OF EACH SIDEWALK SECTION BEING RECONSTRUCTED.
5. AT EACH POINT OF CLOSURE, SUFFICIENT NUMBERS OF BARRICADES MUST BE USED TO COMPLETELY CLOSE THE PATHWAY.
6. PEDESTRIAN WALKWAYS MUST BE MAINTAINED FREE OF ANY OBSTRUCTIONS AND HAZARDS SUCH AS HOLES, DEBRIS, MUD, CONSTRUCTION EQUIPMENT, STORED MATERIALS, ETC. AND MUST BE BROOM SWEEP DAILY OR AS DIRECTED BY THE ENGINEER.
7. ALL HAZARDS NEAR OR ADJACENT TO WALKWAYS MUST BE CLEARLY DELINEATED.
8. THE CONTRACTOR MUST MAINTAIN DISABLED PERSON PEDESTRIAN ACCESS TO INTERSECTION CROSSWALKS AT ALL TIMES VIA PROWAG COMPLIANT WOOD FRAME CONSTRUCTED WALKWAYS AND RAMPS THROUGH THE WORK ZONES. THESE ACCESSES MUST BE OBSERVED AND PROTECTED BY THE CONTRACTOR AT ALL TIMES.

**SEQUENCE OF CONSTRUCTION**

1. ESTABLISH TEMPORARY EROSION CONTROL MEASURES. CONTINUE TO IMPLEMENT AND MAINTAIN EROSION CONTROL DEVICES AS WORK PROGRESSES AND IN ACCORDANCE WITH EROSION CONTROL PLANS AND SWPPP.
  2. DEMOLISH EXISTING BUILDINGS AND CLEAR PROPERTIES.
  3. CLOSE AND REMOVE EXISTING STREETS:
    - A. KELLOGG STREET BETWEEN WATER STREET AND NORTH STREET.
    - B. SEMINARY STREET FROM NORTH STREET TO APPROXIMATELY STA. 122+65.
    - C. NORTH STREET FROM KELLOGG STREET TO EAST OF EXISTING RAILROAD TRACK CROSSING.
    - D. PECK STREET JUST EAST OF SEMINARY STREET.
    - E. MAINTAIN TRAFFIC AT ALL INTERSECTIONS EXCEPT SEMINARY/PECK.
  4. BEGIN STAGED CONSTRUCTION. SEE THE FOLLOWING SECTIONS FOR ADDITIONAL DETAILS.
    - A. LIMITS OF EACH STAGE ARE APPROXIMATE AND SHALL BE REFINED AS WORK PROGRESSES AND AS APPROVED BY THE ENGINEER.
    - B. SEE MAP FOR THE STAGING REQUIREMENTS OF EACH ENTRANCE.
  5. OPEN NEW KELLOGG/SEMINARY ALIGNMENT.
  6. COMPLETE FINAL GRADING, LANDSCAPING, AND PROJECT CLEANUP.
  7. REMOVE TEMPORARY EROSION CONTROL DEVICES ONCE PERMANENT CONTROL MEASURES HAVE BEEN ESTABLISHED.
- STAGE 1**
1. BEGIN CONSTRUCTION OF NEW SEMINARY STREET ALIGNMENT BETWEEN WATER STREET AND STATION 122+65 INCLUDING NEW RETAINING WALLS, ROADWAY OVERPASS, AND CEDAR CREEK BOX CULVERT.
  2. RECONSTRUCT KELLOGG STREET FROM STATION 109+75 TO WATER STREET.
  3. STAGED RECONSTRUCTION OF WATER STREET TO MAINTAIN ACCESS TO ENTRANCES.
  4. STAGE CONSTRUCT INTERSECTION OF KELLOGG ST. AND MAIN ST. TO MAINTAIN EAST/WEST TRAFFIC ON MAIN ST. NORTH/SOUTH TRAFFIC ON KELLOGG ST. TO BE DETOURED, EXCEPT FOR LOCAL BUSINESS TRAFFIC, UNTIL NEW TRAFFIC SIGNALS ARE INSTALLED AND OPERATIONAL.
- STAGE 2**
1. CONTINUE CONSTRUCTION OF NEW SEMINARY STREET ALIGNMENT BETWEEN WATER STREET AND STATION 122+65 INCLUDING NEW RETAINING WALLS, ROADWAY OVERPASS, AND CEDAR CREEK BOX CULVERT.
  2. RECONSTRUCT KELLOGG STREET FROM THE SOUTH SIDE OF THE MAIN STREET INTERSECTION TO STATION 109+75.
  3. STAGED RECONSTRUCTION OF SEMINARY STREET BETWEEN STATION 122+65 AND GROVE STREET TO MAINTAIN ACCESS TO ENTRANCES.
- STAGE 3**
1. OPEN NEW SEMINARY STREET OVERPASS.
  2. COMPLETE NEW CURB LINES AND OTHER IMPROVEMENTS AT THE INTERSECTION OF NORTH STREET WITH KELLOGG STREET AND SEMINARY STREET.
  3. COMPLETE GRADING AND LANDSCAPING OF OPEN AREAS EAST AND WEST OF NEW OVERPASS, RETAINING WALLS, AND BOX CULVERT.

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CLAYTON	5/27/13	RLS	5/27/13
OSBORN	5/28/13	USD	5/28/13
REYNOLDS	5/29/13	MPB	5/29/13

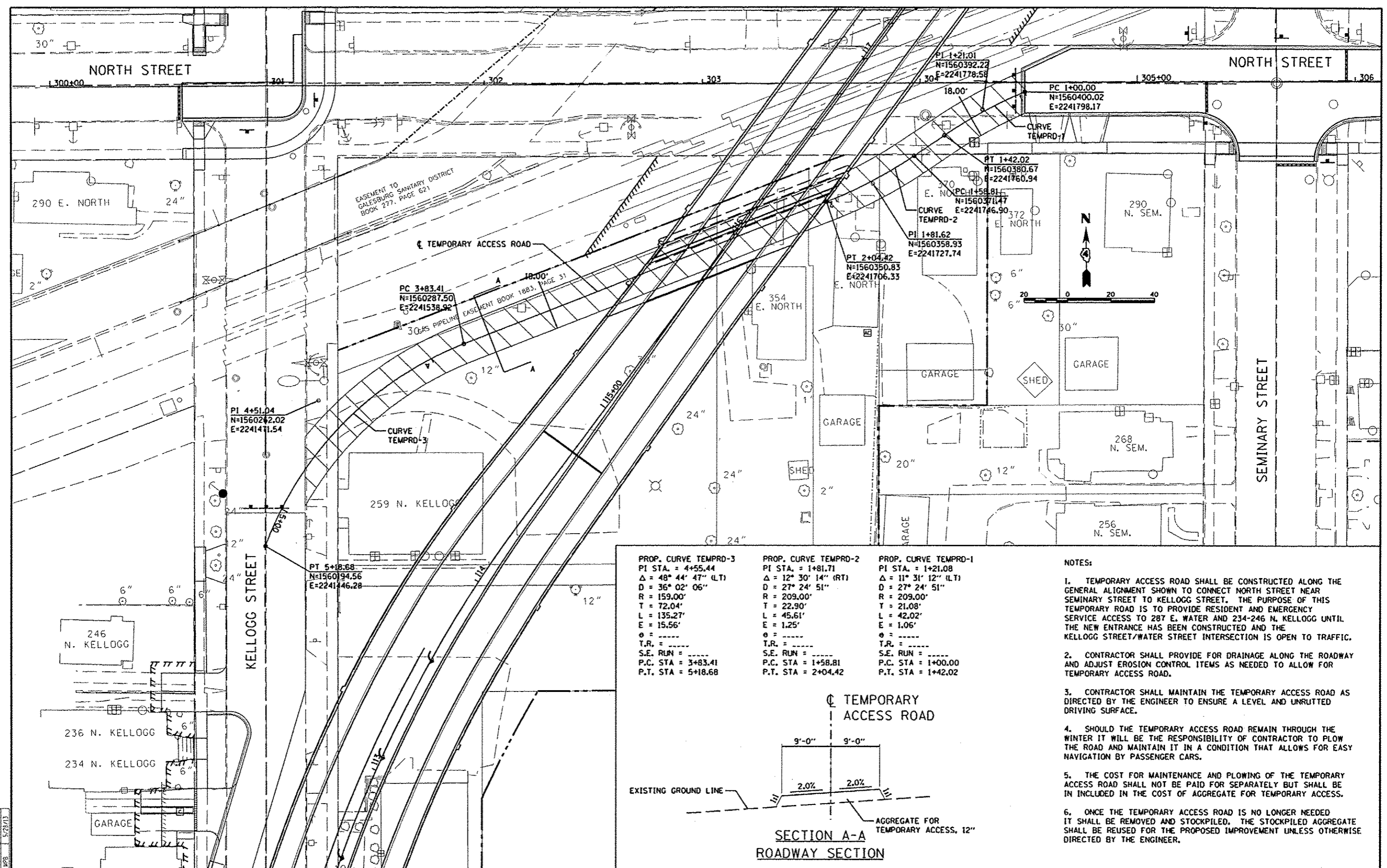
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SEMINARY STREET/KELLOGG STREET CONSTRUCTION STAGING PLAN</b>	
SCALE: 1"=100'	SHEET NO. OF SHEETS STA. TO STA.

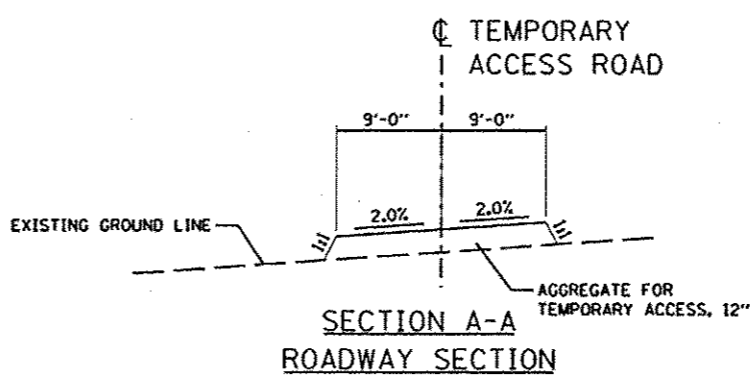
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 89419	

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PROP. CURVE TEMPRD-3	PROP. CURVE TEMPRD-2	PROP. CURVE TEMPRD-1
PI STA. = 4+55.44	PI STA. = 1+81.71	PI STA. = 1+21.08
$\Delta = 48^\circ 44' 47''$ (LT)	$\Delta = 12^\circ 30' 14''$ (RT)	$\Delta = 11^\circ 31' 12''$ (LT)
D = 36° 02' 06"	D = 27° 24' 51"	D = 27° 24' 51"
R = 159.00'	R = 209.00'	R = 209.00'
T = 72.04'	T = 22.90'	T = 21.08'
L = 135.27'	L = 45.61'	L = 42.02'
E = 15.56'	E = 1.25'	E = 1.06'
$\theta =$	$\theta =$	$\theta =$
T.R. =	T.R. =	T.R. =
S.E. RUN =	S.E. RUN =	S.E. RUN =
P.C. STA = 3+83.41	P.C. STA = 1+58.81	P.C. STA = 1+00.00
P.T. STA = 5+18.68	P.T. STA = 2+04.42	P.T. STA = 1+42.02

- NOTES:**
- TEMPORARY ACCESS ROAD SHALL BE CONSTRUCTED ALONG THE GENERAL ALIGNMENT SHOWN TO CONNECT NORTH STREET NEAR SEMINARY STREET TO KELLOGG STREET. THE PURPOSE OF THIS TEMPORARY ROAD IS TO PROVIDE RESIDENT AND EMERGENCY SERVICE ACCESS TO 287 E. WATER AND 234-246 N. KELLOGG UNTIL THE NEW ENTRANCE HAS BEEN CONSTRUCTED AND THE KELLOGG STREET/WATER STREET INTERSECTION IS OPEN TO TRAFFIC.
  - CONTRACTOR SHALL PROVIDE FOR DRAINAGE ALONG THE ROADWAY AND ADJUST EROSION CONTROL ITEMS AS NEEDED TO ALLOW FOR TEMPORARY ACCESS ROAD.
  - CONTRACTOR SHALL MAINTAIN THE TEMPORARY ACCESS ROAD AS DIRECTED BY THE ENGINEER TO ENSURE A LEVEL AND UNRUTTED DRIVING SURFACE.
  - SHOULD THE TEMPORARY ACCESS ROAD REMAIN THROUGH THE WINTER IT WILL BE THE RESPONSIBILITY OF CONTRACTOR TO PLOW THE ROAD AND MAINTAIN IT IN A CONDITION THAT ALLOWS FOR EASY NAVIGATION BY PASSENGER CARS.
  - THE COST FOR MAINTENANCE AND PLOWING OF THE TEMPORARY ACCESS ROAD SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF AGGREGATE FOR TEMPORARY ACCESS.
  - ONCE THE TEMPORARY ACCESS ROAD IS NO LONGER NEEDED IT SHALL BE REMOVED AND STOCKPILED. THE STOCKPILED AGGREGATE SHALL BE REUSED FOR THE PROPOSED IMPROVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



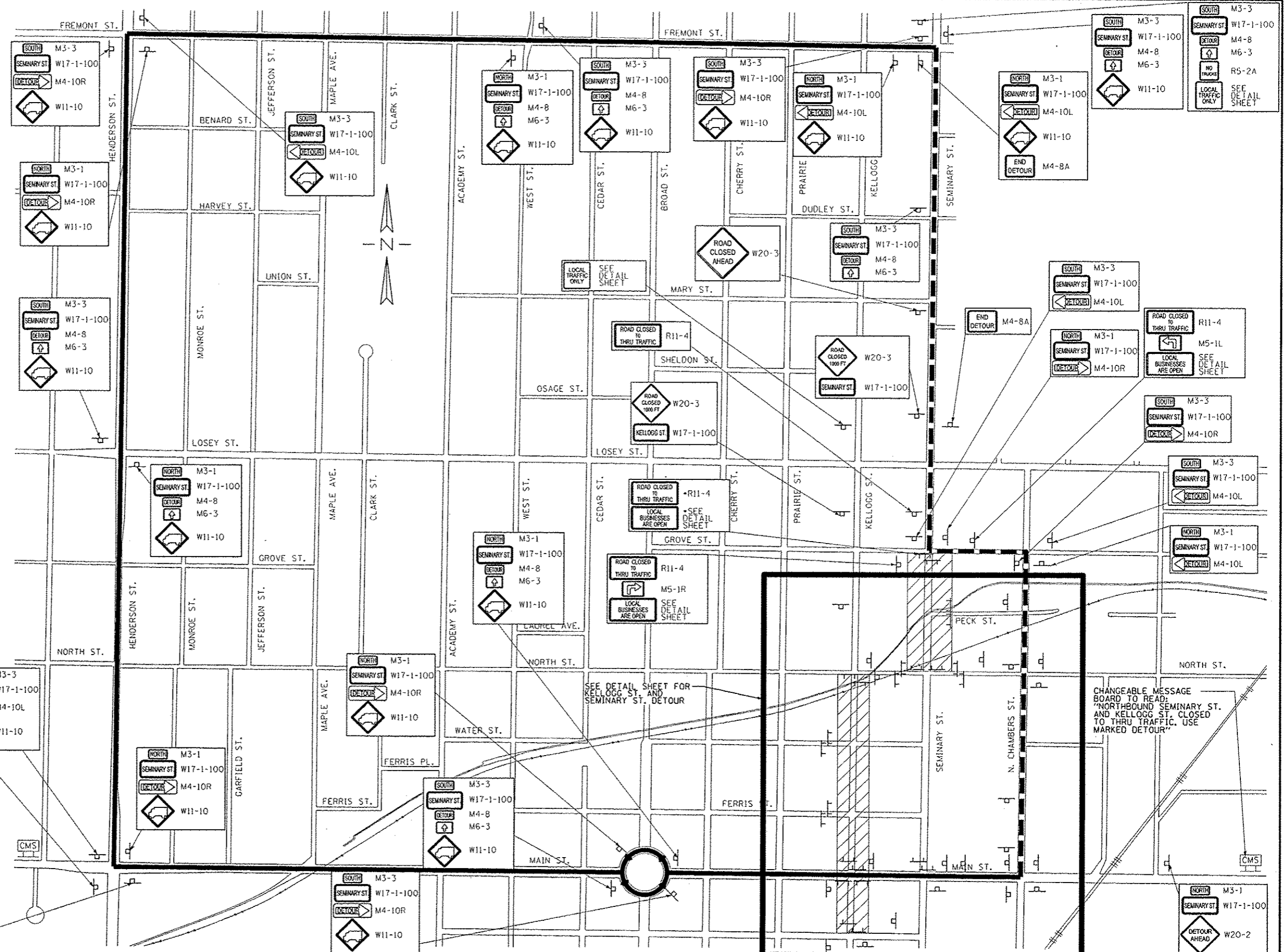
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		DATE	REVISED
		5/29/13	

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>SEMINARY STREET/KELLOGG STREET TEMPORARY ACCESS ROAD.</b>	
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	F.A.U. RT#
			6799
			6800
			6801
			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT
			SECTION 05-00501-21-GS
			COUNTY KNOX
			TOTAL SHEETS 269
			SHEET NO. 154
			CONTRACT NO. 89419

**LEGEND**

- LOCAL TRAFFIC ONLY
- TRUCK DETOUR ROUTE
- WORK ZONE
- SIGN COMBINATION
- TYPE III BARRICADE
- BARRICADE MOUNTED

NOTE:  
ROAD CONSTRUCTION AHEAD AND ROAD CLOSED SIGNS TO BE PLACED ACCORDING TO THE APPLICABLE IDOT STANDARD DETAIL FOR TRAFFIC CONTROL.



LAYOUT	NLH
DRAWN	NLH
REVIEWED	DTM

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		CHECKED	REVISED
		MTM	-
		DATE	REVISED
		5/29/13	-

SCALE	DATE
1"=300'	5/29/13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN  
DETOUR SIGNAGE**

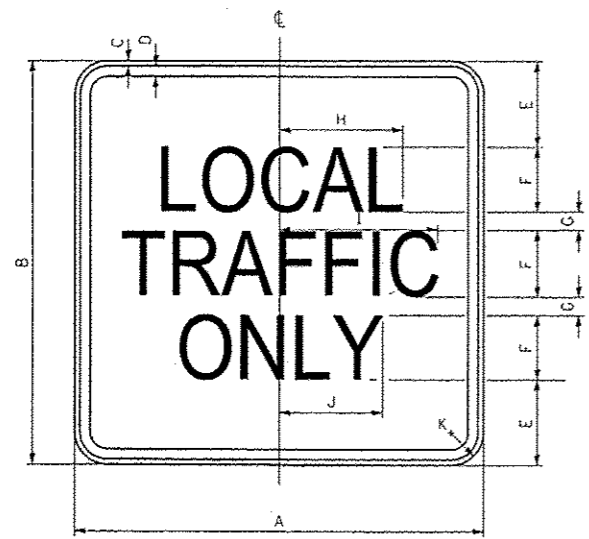
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CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 1"=300' SHEET NO. OF SHEETS STA. TO STA.



A	B	C	D	E	F	G	H	I	J	K	L
36	24	0.375	0.625	3.25	4	2.75	4	9.587	3.848	9.347	1.5

ALL DIMENSIONS SHOWN ARE IN INCHES



A	B	C	D	E	F	G	H	I	J	K
30	30	0.375	0.625	4.06	5	3.44	6.25	8.75	5	1.5

ALL DIMENSIONS SHOWN ARE IN INCHES

- LEGEND**
- WORK ZONE
  - SIGN COMBINATION
  - TYPE III BARRICADE
  - BARRICADE MOUNTED

- NOTES:**
- 1.) ROAD CONSTRUCTION AHEAD AND ROAD CLOSED SIGNS TO BE PLACED ACCORDING TO THE APPLICABLE IDOT STANDARD DETAIL FOR TRAFFIC CONTROL.
  - 2.) KELLOGG ST. STAGE 1 DETOUR CAN BE REMOVED ONCE THE INTERSECTION IS COMPLETE AND THE SIGNALS ARE OPERATIONAL. TRAFFIC DETOUR WILL THEN FOLLOW TRAFFIC CONTROL PLAN AS SEEN ON PREVIOUS SHEET.

DATE	BY	CHKD	DATE
DATE	BY	CHKD	DATE

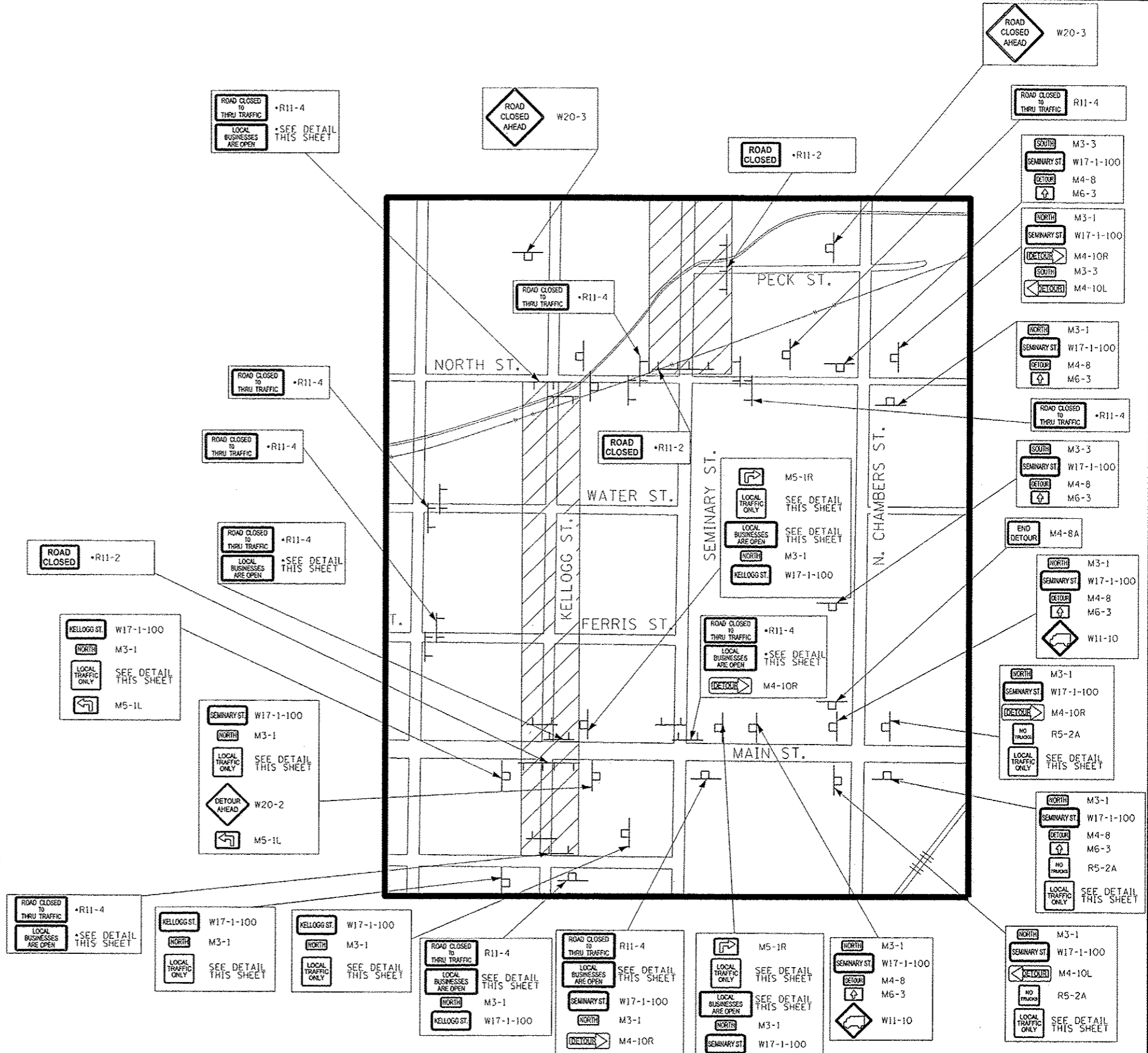
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			REVISED -
		PLOT DATE * 05/29/2013	DATE - 5/29/13
			REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN  
DETOUR SIGNAGE**

SCALE: 1"=300' SHEET NO. OF SHEETS STA. TO STA.

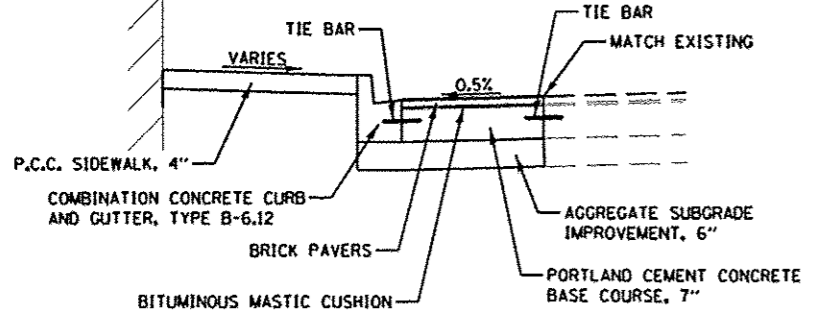
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FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 89419		





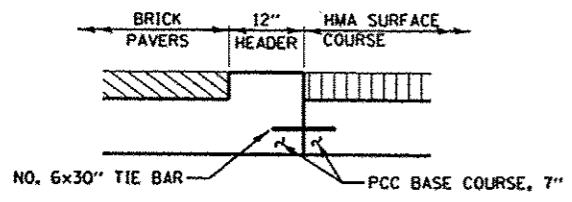
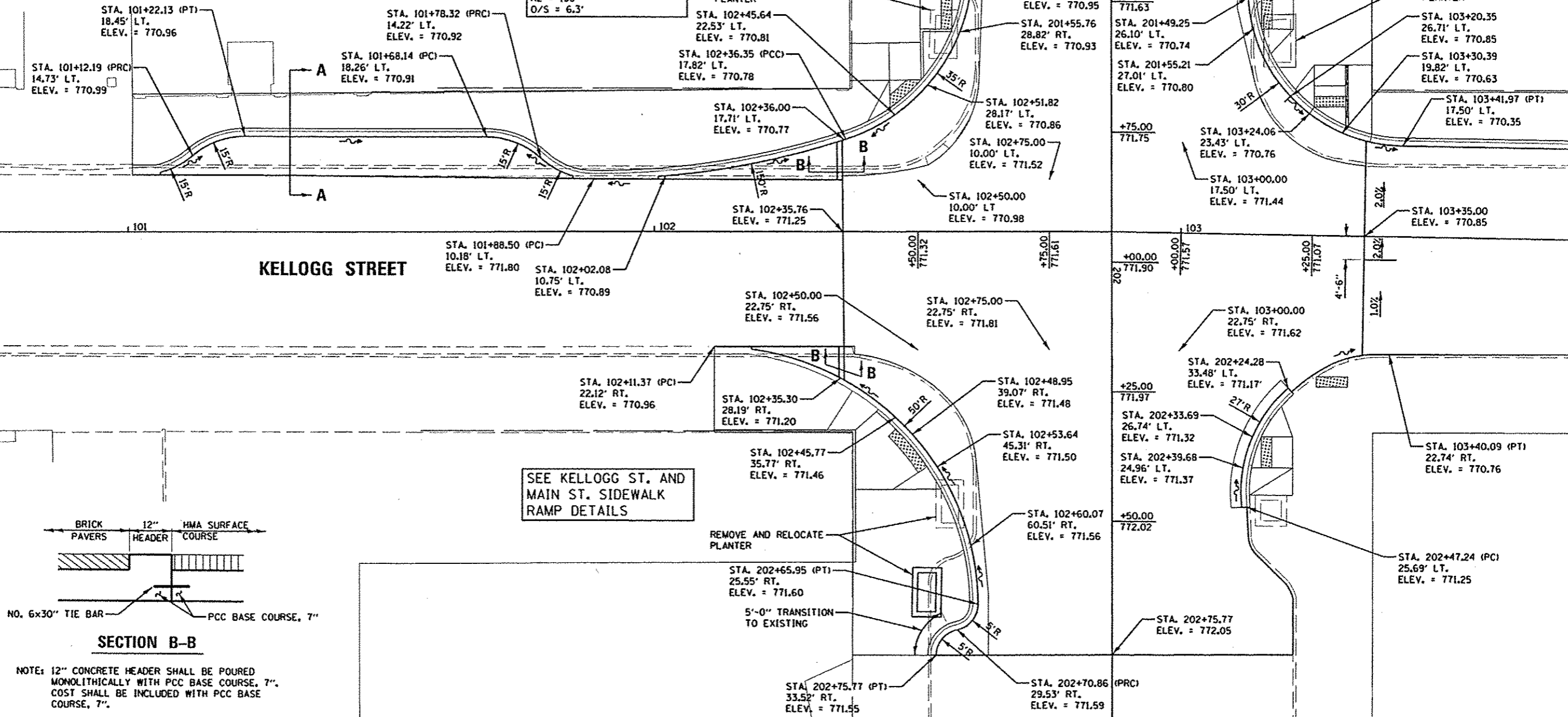


**PRELIMINARY**  
NOT FOR CONSTRUCTION



**SECTION A-A**

**2-CENTER CURVE INFORMATION**  
R1 = 35'  
R2 = 150'  
O/S = 6.3'



**SECTION B-B**

NOTE: 12" CONCRETE HEADER SHALL BE POURED MONOLITHICALLY WITH PCC BASE COURSE, 7". COST SHALL BE INCLUDED WITH PCC BASE COURSE, 7".

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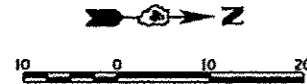
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MPB	5/28/13
MGD	5/28/13
RLA	6/27/12
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		5/29/13	-

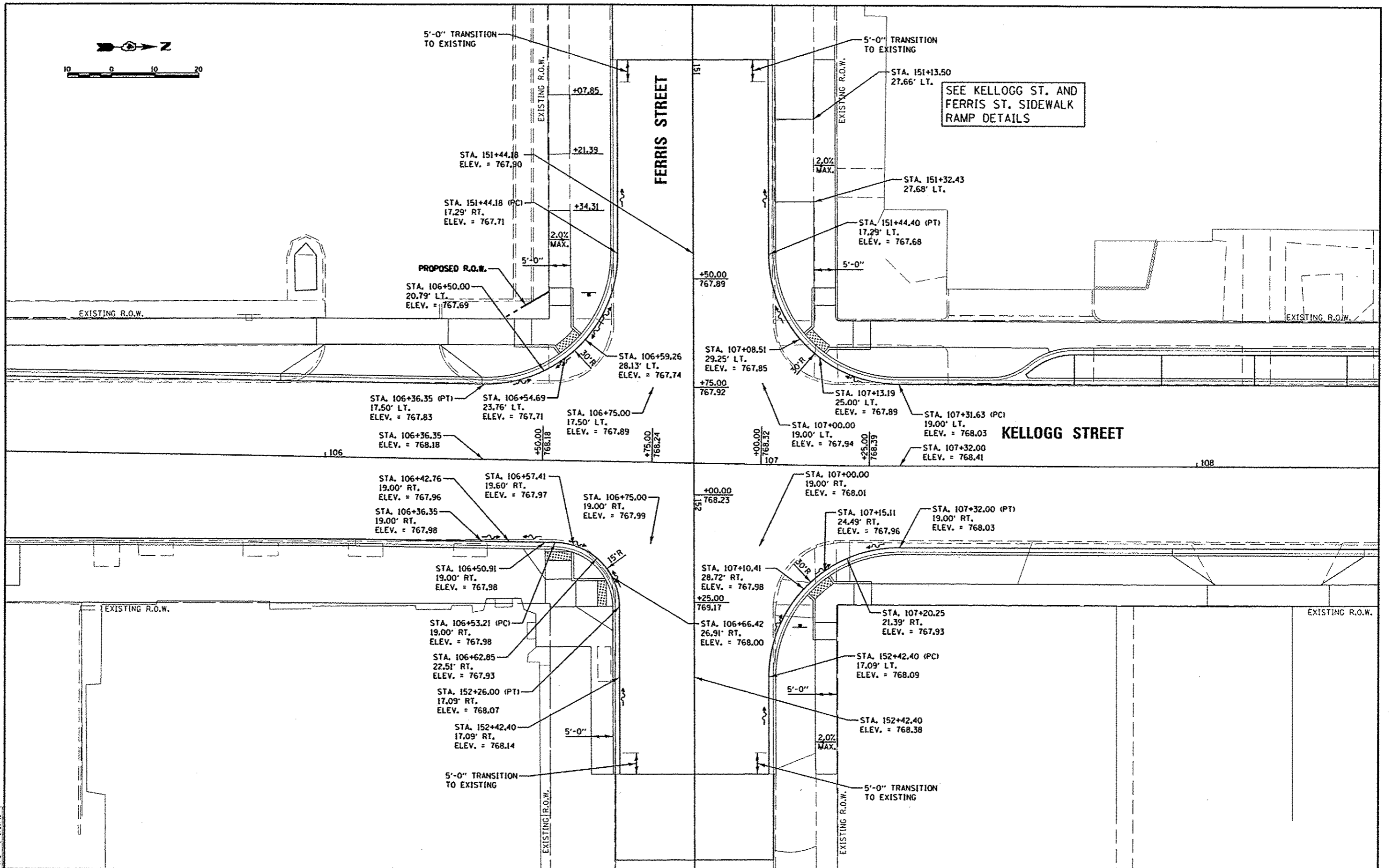
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**KELLOGG STREET AND MAIN STREET**  
**INTERSECTION PLAN**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	157
6800				
6801				
SCALE: 1"=10'		SHEET NO. OF SHEETS		STA. TO STA.
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 89419



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SEE KELLOGG ST. AND  
FERRIS ST. SIDEWALK  
RAMP DETAILS

LAYOUT	RLA	5/27/13
DRAWN	MCD	5/28/13
REVIEWED	MPB	5/28/13

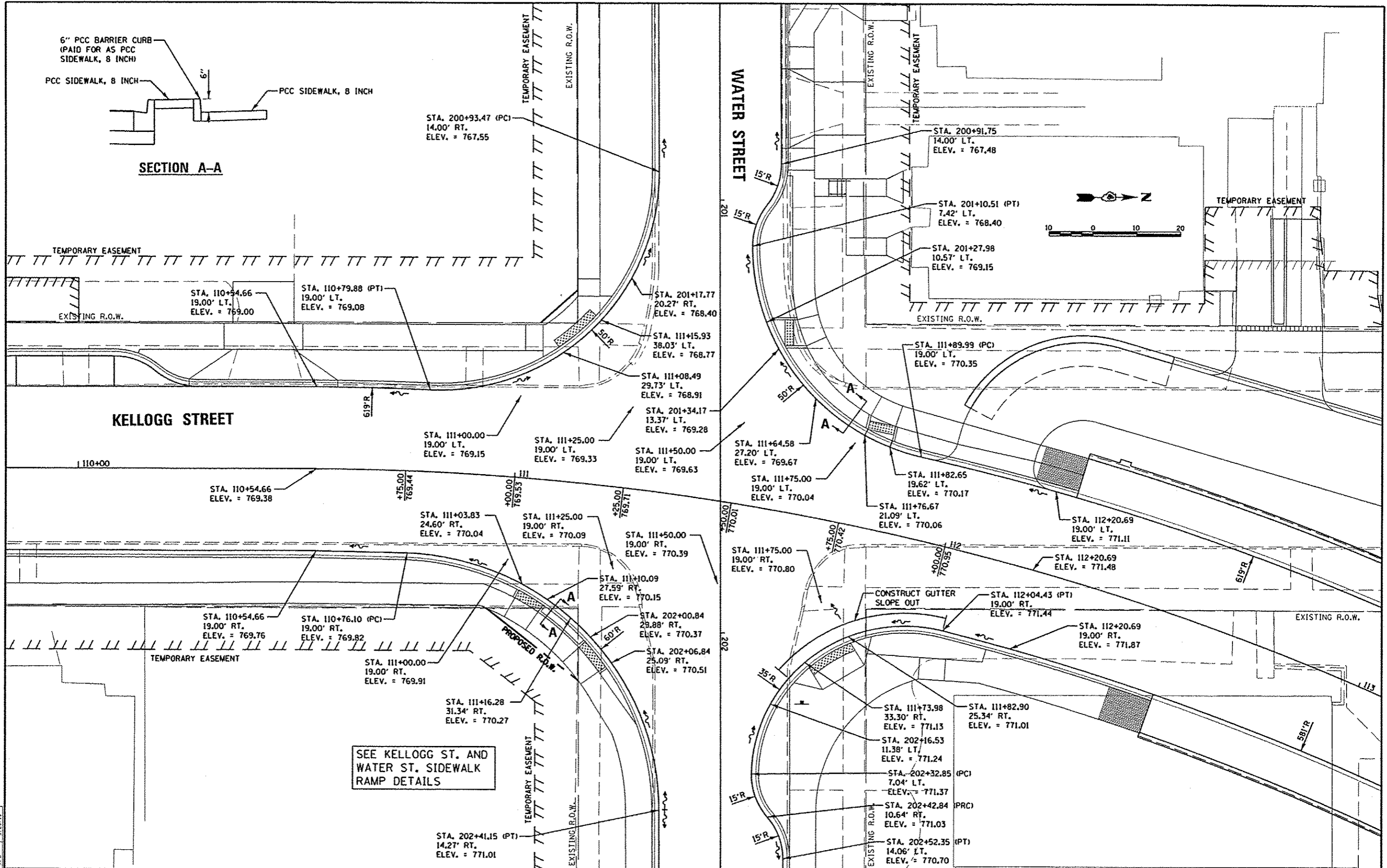
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		MCD	-
		CHECKED -	REVISED -
		MPB	-
		DATE -	REVISED -
		5/29/13	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

KELLOGG STREET AND FERRIS STREET  
INTERSECTION PLAN

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-05	KNOX	269	158
6800				
6801				
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DATE	5/27/12
BY	MPB
REVIEWED	MPB
DATE	5/28/13

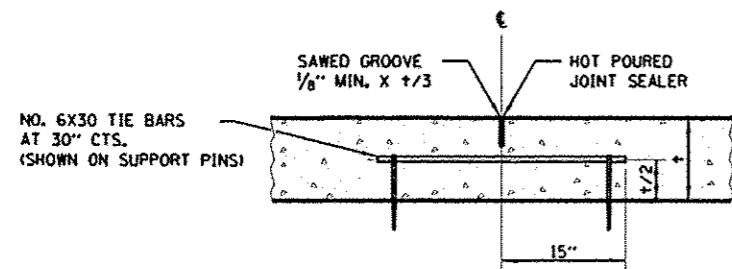
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PL01	SCALE = 20.0000 / 1" = 20'	CHECKED	MPB
PL01	DATE = 05/29/2013	DATE	5/29/13
		REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**KELLOGG STREET AND WATER STREET  
 INTERSECTION PLAN**

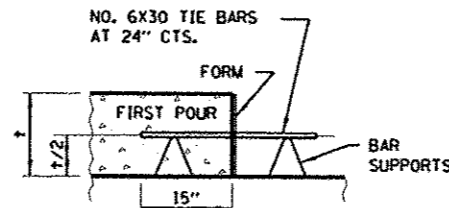
SCALE: 1"=10'      SHEET NO.    OF    SHEETS    STA.    TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6793	05-00501-21-GS	KNOX	269	159
6800				
6801				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 89419	

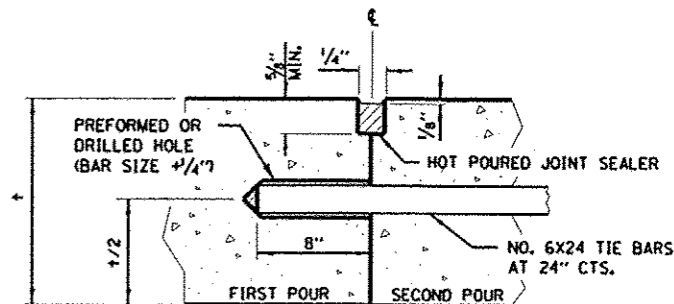


**LONGITUDINAL SAWED JOINT**

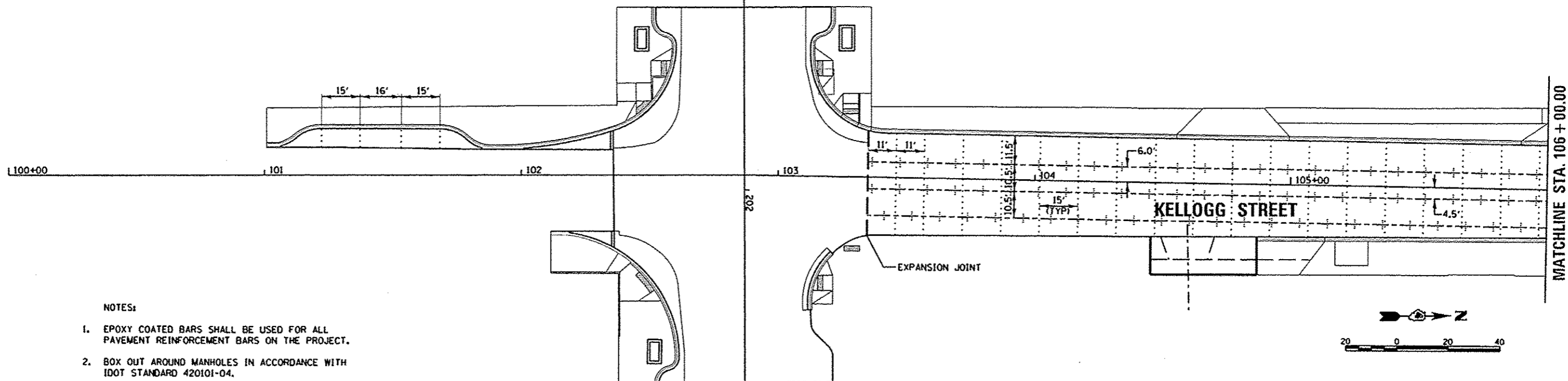
DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
8" OR GREATER	1 1/2"
7" THRU 7.99"	1 1/4"
LESS THAN 7"	1"



**LONGITUDINAL CONSTRUCTION JOINT (TIE BAR FORMED IN PLACE)**

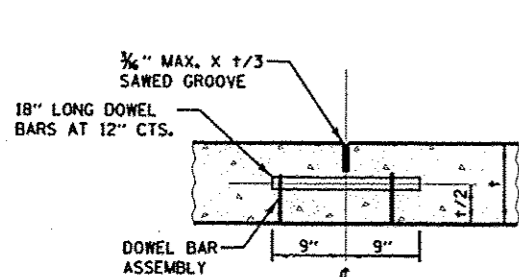


**LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)**

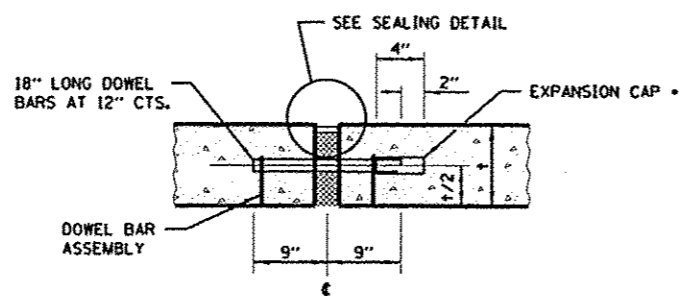


**NOTES:**

- EPOXY COATED BARS SHALL BE USED FOR ALL PAVEMENT REINFORCEMENT BARS ON THE PROJECT.
- BOX OUT AROUND MANHOLES IN ACCORDANCE WITH IDOT STANDARD 420101-04.



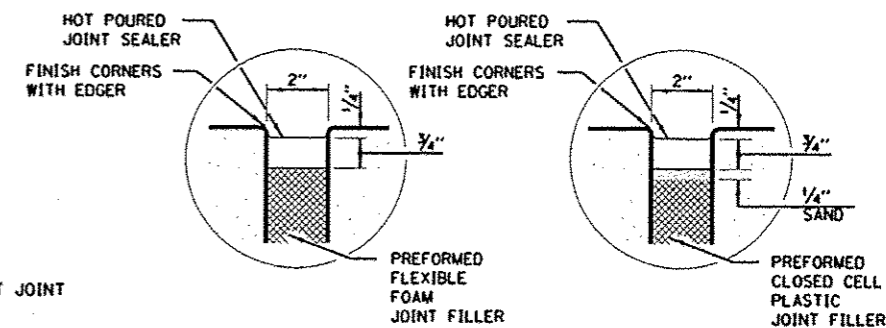
**TRANSVERSE CONTRACTION JOINT**



**TRANSVERSE EXPANSION JOINT (FOR PAVEMENTS WITH EQUAL THICKNESS)**

**LEGEND**

- - - - - LONGITUDINAL PAVEMENT JOINT
- ..... TRANSVERSE PAVEMENT JOINT
- - - - - EXPANSION JOINT



**SEALING DETAIL**

LAYOUT	5/21/12
DRAMA	5/28/13
WCD	5/28/13
MPB	5/28/13

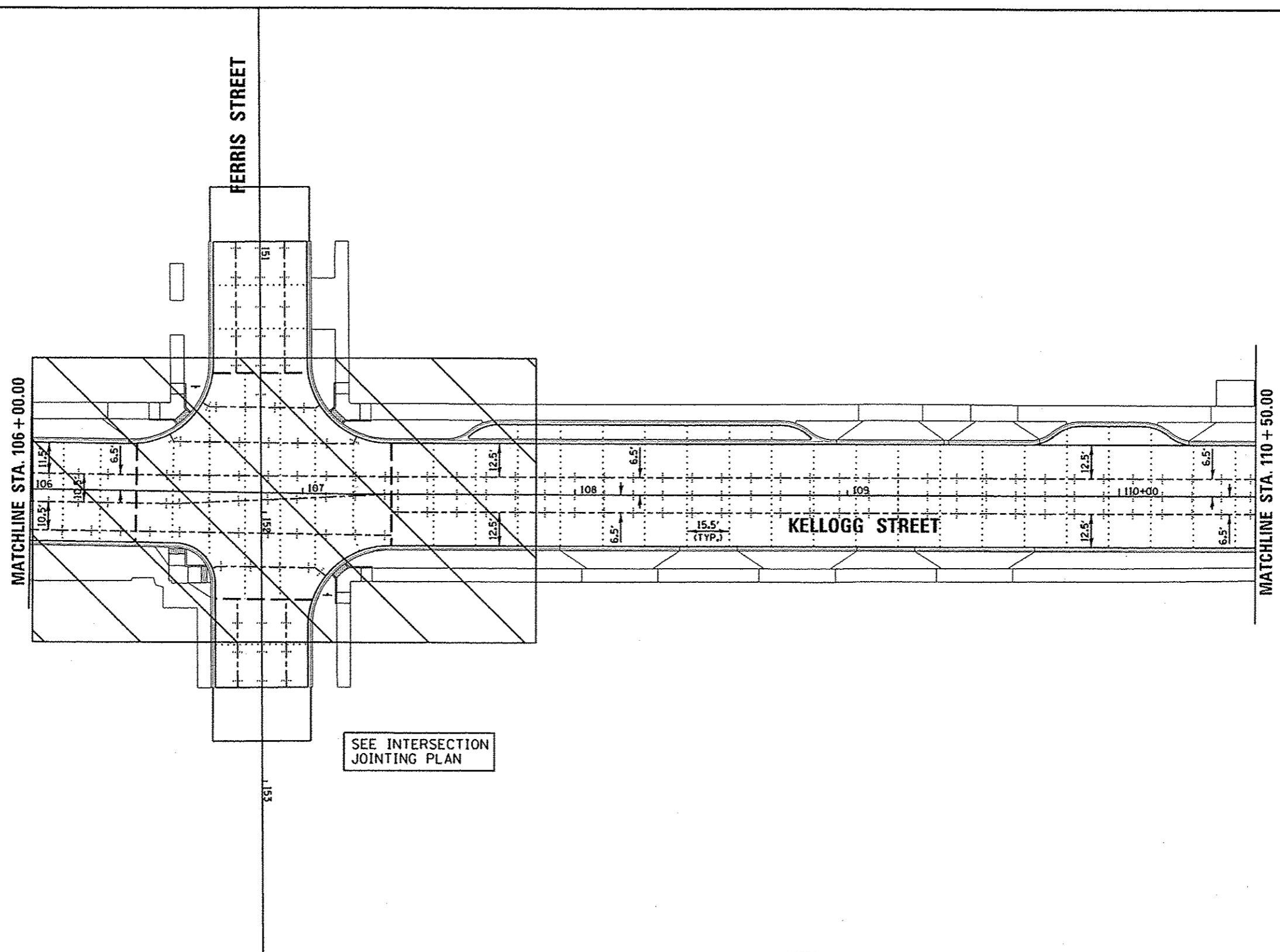
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	PLOT SCALE = 48,0000 // in.	CHECKED	MPB
	PLOT DATE = 05/29/2013	DATE	5/29/13
		REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SEMINARY STREET/KELLOGG STREET  
 JOINTING PLAN

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 101+00.00 TO STA. 106+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6795 6800 6801	05-00501-21-GS	KNOX	269	160
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**LEGEND**

- +---+ LONGITUDINAL PAVEMENT JOINT
- ..... TRANSVERSE PAVEMENT JOINT
- EXPANSION JOINT

**NOTES:**

1. EPOXY COATED BARS SHALL BE USED FOR ALL PAVEMENT REINFORCEMENT BARS ON THE PROJECT.
2. BOX OUT AROUND MANHOLES IN ACCORDANCE WITH IDOT STANDARD 420101-04.

LAYOUT	RLA	6/27/12
DRAWN	MCD	5/28/13
REVIEWED	MPB	5/28/13

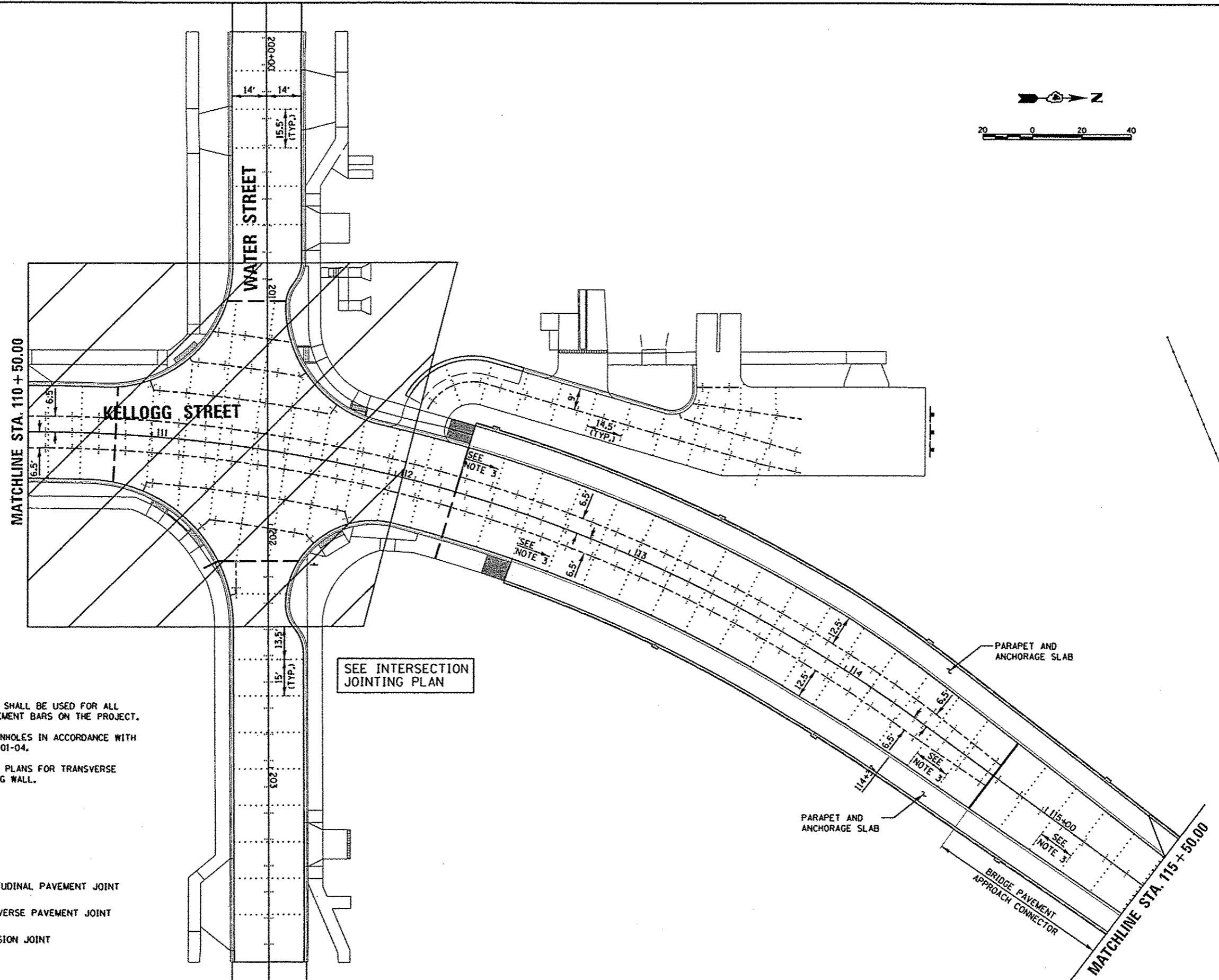
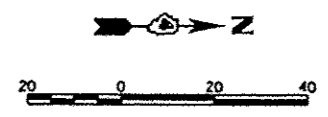
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	PLOT SCALE = 48.0000' / in.	CHECKED	MPB
	PLOT DATE = 05/29/2013	DATE	5/29/13
		REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET/KELLOGG STREET  
 JOINTING PLAN**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. 106+00.00 TO STA. 110+50.00

F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	161
6800	CONTRACT NO.89419			
6801	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



- NOTES:**
1. EPOXY COATED BARS SHALL BE USED FOR ALL PAVEMENT REINFORCEMENT BARS ON THE PROJECT.
  2. BOX OUT AROUND MANHOLES IN ACCORDANCE WITH IDOT STANDARD 420101-04.
  3. SEE RETAINING WALL PLANS FOR TRANSVERSE JOINT SPACING ALONG WALL.

- LEGEND**
- +---+---+ LONGITUDINAL PAVEMENT JOINT
  - ..... TRANSVERSE PAVEMENT JOINT
  - EXPANSION JOINT

SEE INTERSECTION JOINTING PLAN

PARAPET AND ANCHORAGE SLAB

PARAPET AND ANCHORAGE SLAB

BRIDGE PAVEMENT APPROACH CONNECTOR

FILED	6/27/13
DRAWN	5/29/13
REVIEWED	5/29/13

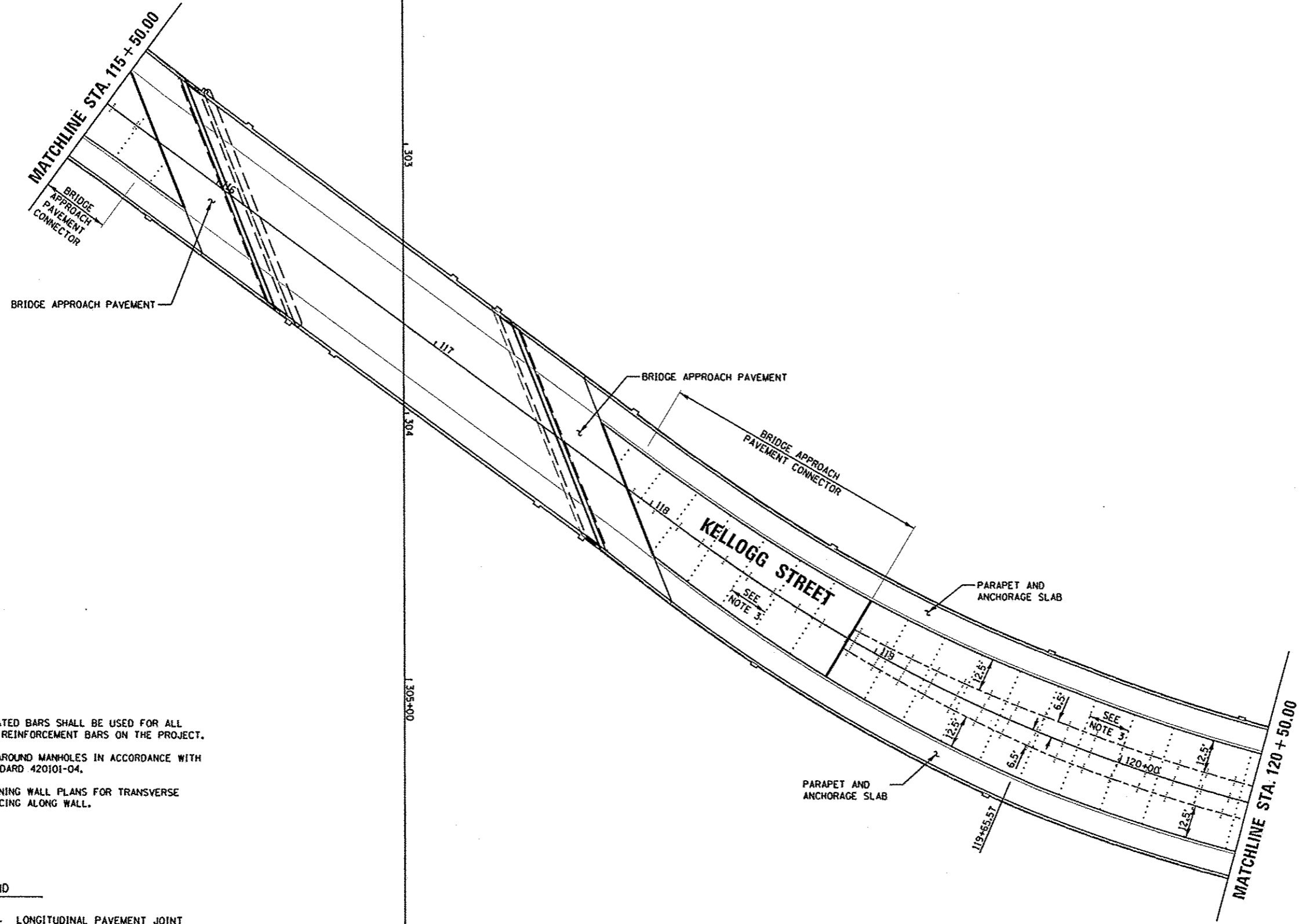
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		CHECKED	REVISIONS
		MPB	
		DATE	REVISIONS
		5/29/13	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET/KELLOGG STREET  
 JOINTING PLAN**

SCALE: 1"=20'      SHEET NO. OF SHEETS      STA. 110+50.00 TO STA. 115+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
679B 6800 6801	05-00501-21-GS	KNOX	269	162
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 89419	



- NOTES:
1. EPOXY COATED BARS SHALL BE USED FOR ALL PAVEMENT REINFORCEMENT BARS ON THE PROJECT.
  2. BOX OUT AROUND MANHOLES IN ACCORDANCE WITH IDOT STANDARD 420101-04.
  3. SEE RETAINING WALL PLANS FOR TRANSVERSE JOINT SPACING ALONG WALL.

**LEGEND**

- +—+—+— LONGITUDINAL PAVEMENT JOINT
- ..... TRANSVERSE PAVEMENT JOINT
- — — — — EXPANSION JOINT

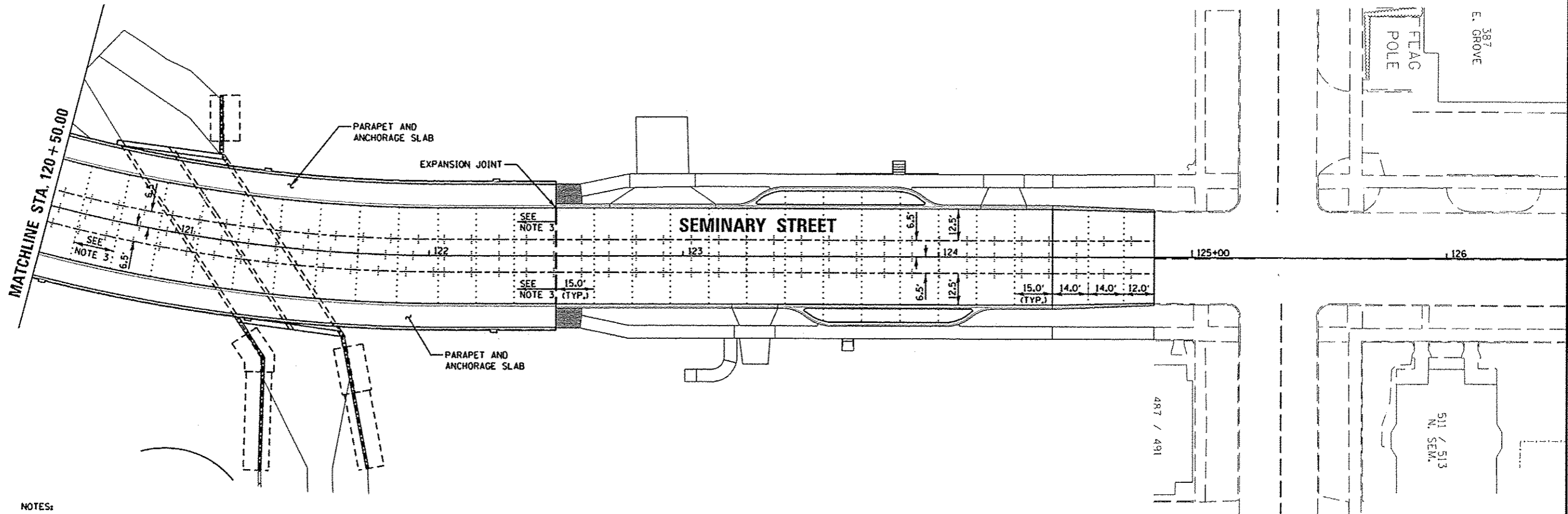
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DRAWN	5/28/13
CHECKED	5/28/13
DESIGNED	5/28/13

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	PLOT DATE: 05/29/2013	DATE: 5/29/13	REVISED: -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SEMINARY STREET/KELLOGG STREET</b>	
<b>JOINTING PLAN</b>	
SCALE: 1"=20'	SHEET NO. OF SHEETS
STA. 115+50.00 TO STA. 120+50.00	

F.A.U. RTE. 6799	SECTION 05-00501-21-GS	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 163
6800				
6801				
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**NOTES:**

1. EPOXY COATED BARS SHALL BE USED FOR ALL PAVEMENT REINFORCEMENT BARS ON THE PROJECT.
2. BOX OUT AROUND MANHOLES IN ACCORDANCE WITH IDOT STANDARD 420101-04.
3. SEE RETAINING WALL PLANS FOR TRANSVERSE JOINT SPACING ALONG WALL.

**LEGEND**

- +—+—+— LONGITUDINAL PAVEMENT JOINT
- ..... TRANSVERSE PAVEMENT JOINT
- — — — — EXPANSION JOINT



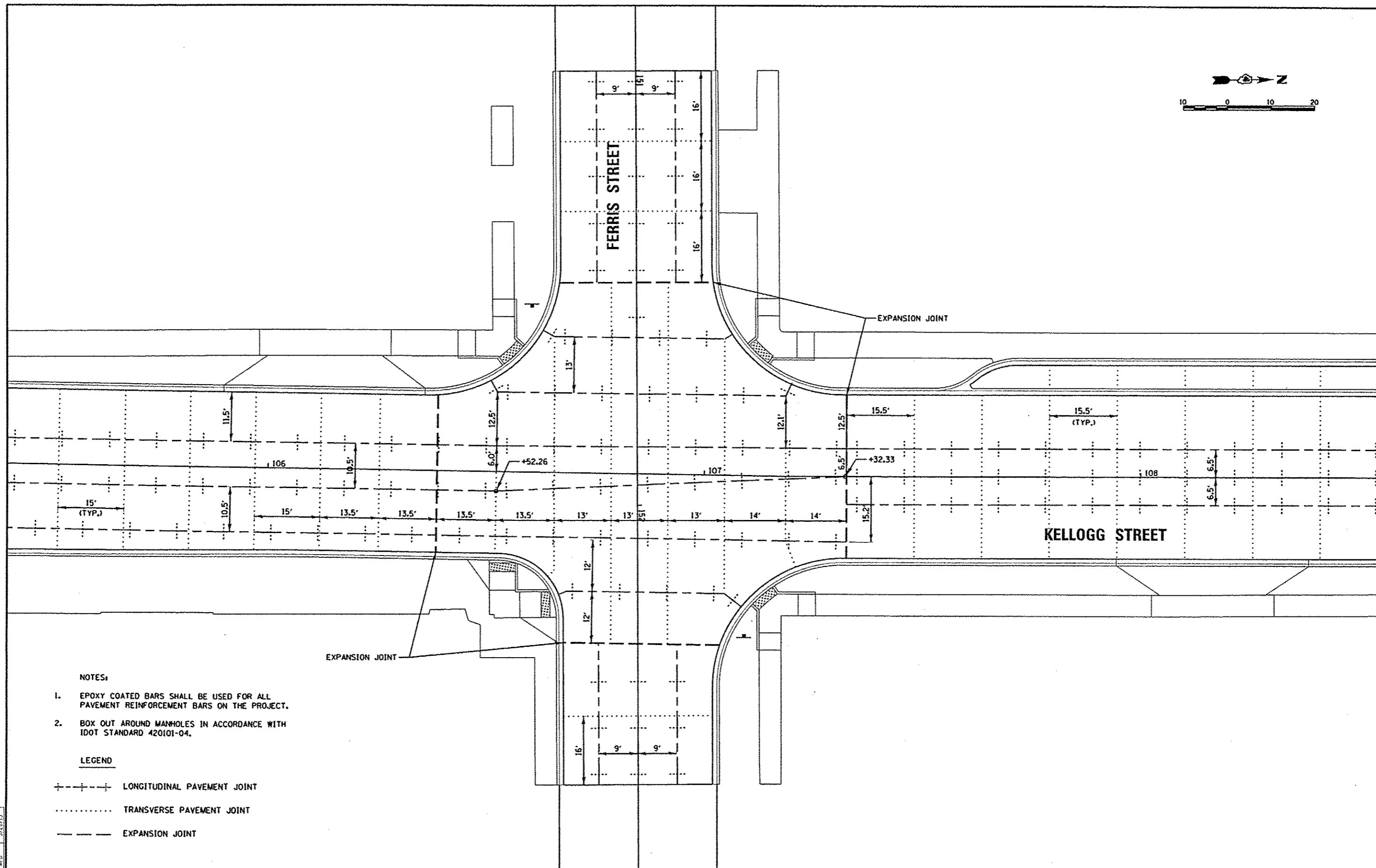
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DRAWN	MCD	5/28/13
REVIEWED	MPB	5/29/13

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		CHECKED: MPB	REVISED:
		DATE: 5/29/13	REVISED:

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SEMINARY STREET/KELLOGG STREET JOINTING PLAN</b>		F.A.U. RTE. 6799 6800 6801	SECTION 05-00501-21-GS	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 164
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. 120+50.00 TO STA. 126+00.00	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
					CONTRACT NO. 89419	





**NOTES:**

1. EPOXY COATED BARS SHALL BE USED FOR ALL PAVEMENT REINFORCEMENT BARS ON THE PROJECT.
2. BOX OUT AROUND MANHOLES IN ACCORDANCE WITH IDOT STANDARD 420101-04.

**LEGEND**

- +—+—+— LONGITUDINAL PAVEMENT JOINT
- ..... TRANSVERSE PAVEMENT JOINT
- — — — — EXPANSION JOINT

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REVIEWED	WDB	5/28/13

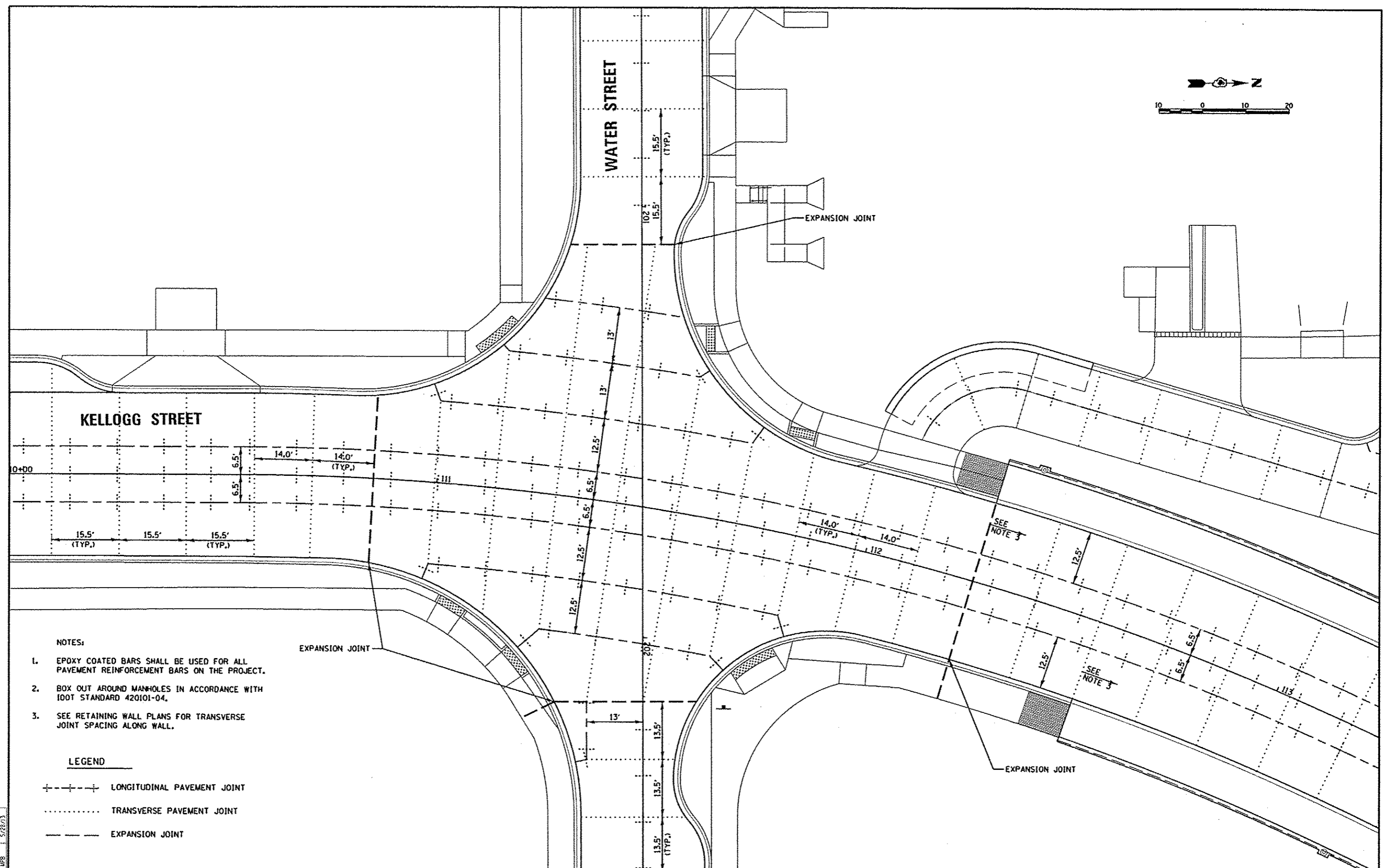
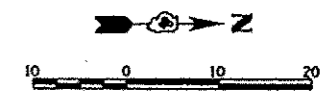
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	PLOT DATE * 05/29/2013	DATE - 5/29/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET AND FERRIS STREET  
 INTERSECTION JOINTING PLAN**

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 6799 6800 6801	SECTION 05-00501-21-05	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 165
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 89419	



- NOTES:**
1. EPOXY COATED BARS SHALL BE USED FOR ALL PAVEMENT REINFORCEMENT BARS ON THE PROJECT.
  2. BOX OUT AROUND MANHOLES IN ACCORDANCE WITH IODT STANDARD 420101-04.
  3. SEE RETAINING WALL PLANS FOR TRANSVERSE JOINT SPACING ALONG WALL.

- LEGEND**
- +—+—+— LONGITUDINAL PAVEMENT JOINT
  - ..... TRANSVERSE PAVEMENT JOINT
  - EXPANSION JOINT

CLARK	6/21/12
ORRIS	5/28/13
REVIEWED	5/28/13

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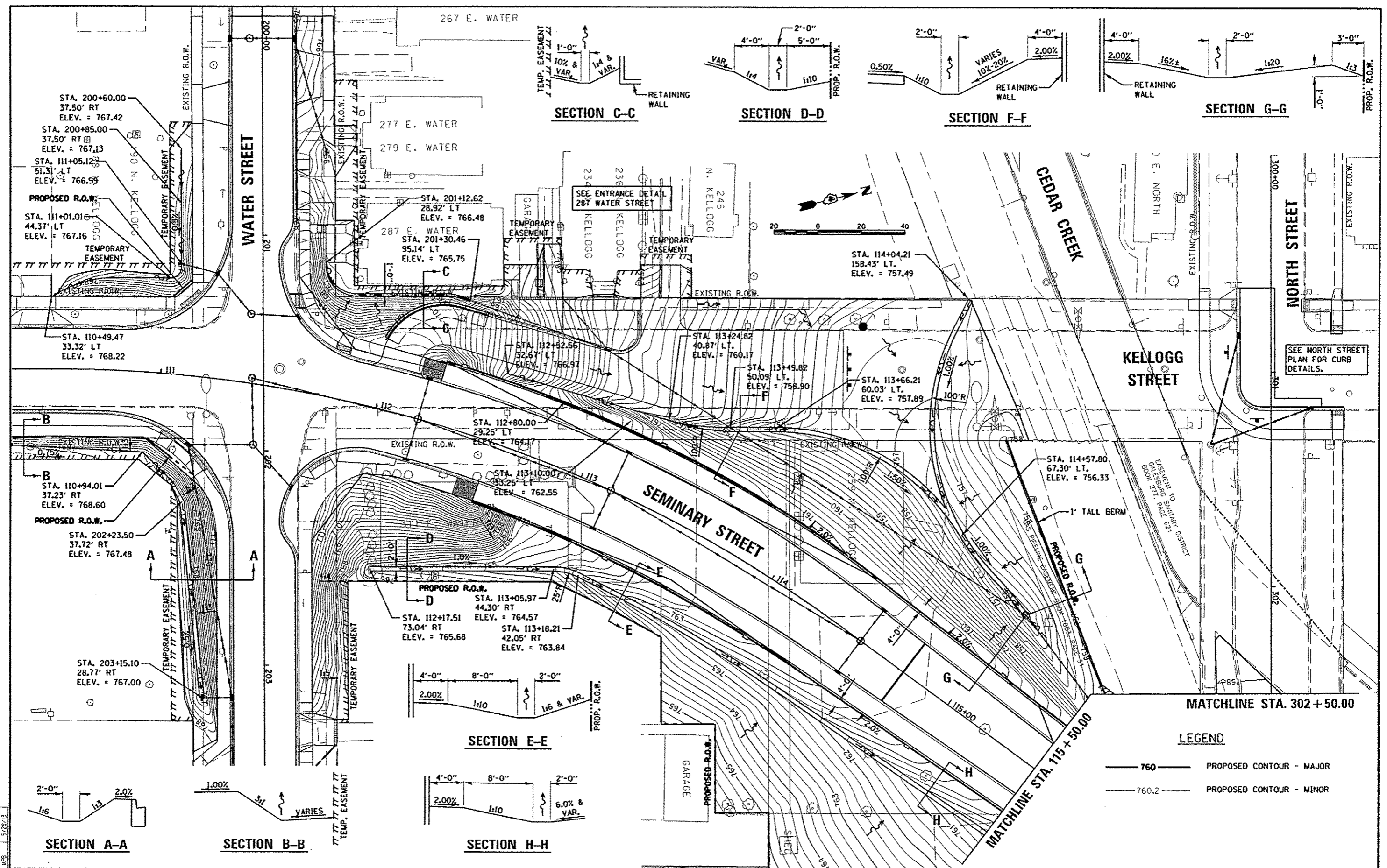
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET AND WATER STREET  
 INTERSECTION JOINTING PLAN**

SCALE: 1"=10'    SHEET NO. OF SHEETS    STA. TO STA.

F.A.U. RTE. 6799 6800 6801	SECTION 05-00501-21-GS	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 166
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 89419	

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 Hanson Professional Services Inc.



**SECTION A-A**

**SECTION B-B**

**SECTION H-H**

**SECTION C-C**

**SECTION D-D**

**SECTION F-F**

**SECTION G-G**

**LEGEND**

- 760 — PROPOSED CONTOUR - MAJOR
- 760.2 — PROPOSED CONTOUR - MINOR

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BY	MPB
CHECKED	MPB
DRAWN	MCD
DESIGNED	RLA

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PLOT DATE	05/29/2013

DESIGNED	RLA	REVISED	
DRAWN	MCD	REVISED	
CHECKED	MPB	REVISED	
DATE	5/29/13	REVISED	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SEMINARY STREET/KELLOGG STREET    OLD KELLOGG STREET GRADING PLAN</b>	
SCALE: 1"=20'	SHEET NO. OF SHEETS STA. TO STA.

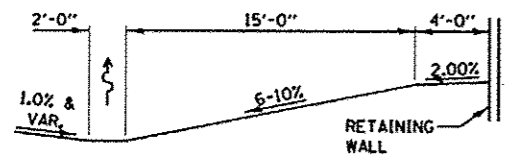
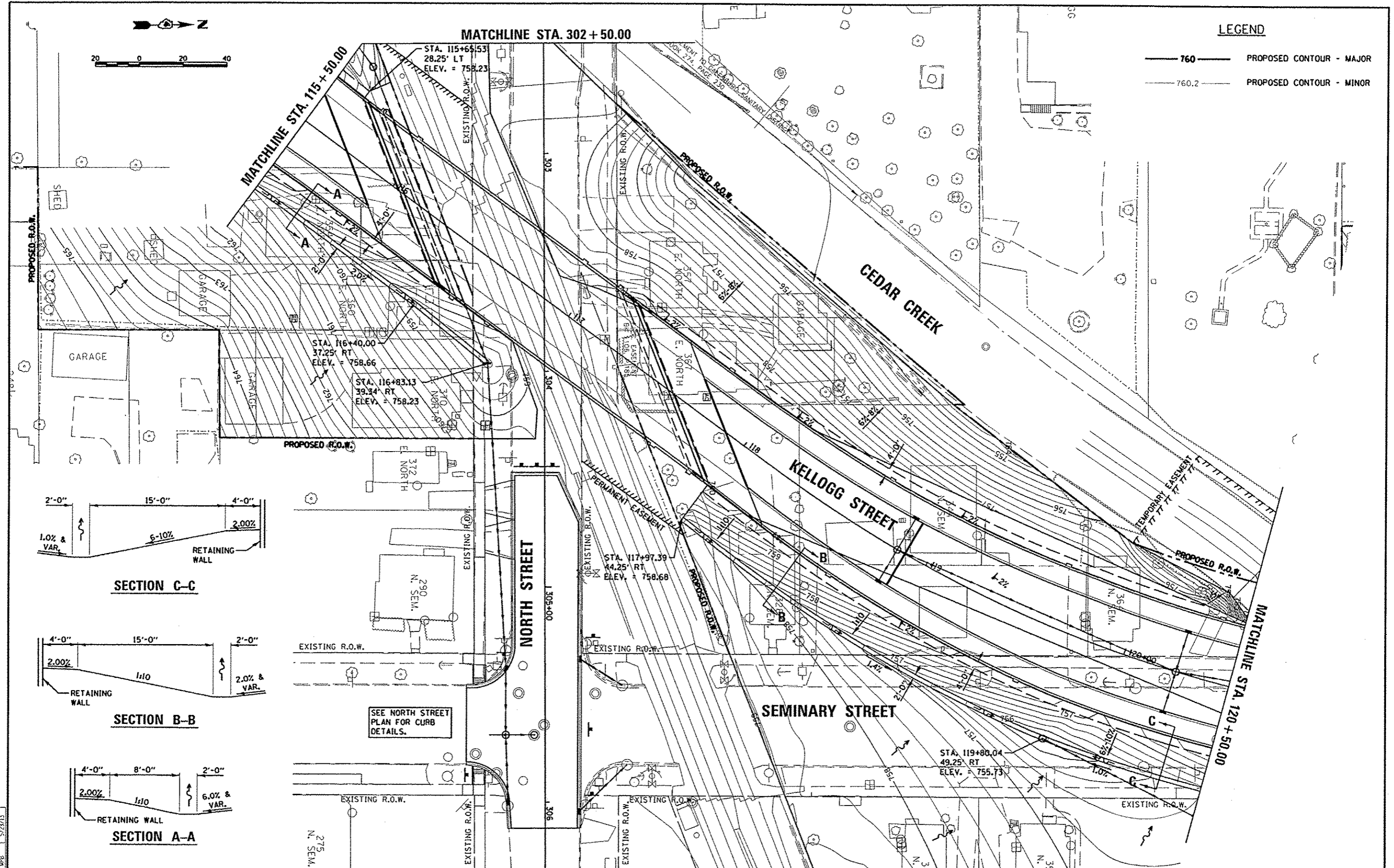
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6799	05-00501-21-G5	KNOX	269	167
6800				
6801				
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



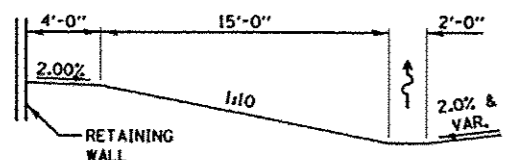
**LEGEND**

	760	PROPOSED CONTOUR - MAJOR
	760.2	PROPOSED CONTOUR - MINOR

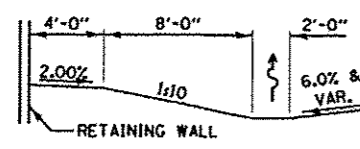
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 Hanson Professional Services Inc.



**SECTION C-C**



**SECTION B-B**



**SECTION A-A**

SEE NORTH STREET  
PLAN FOR CURB  
DETAILS.

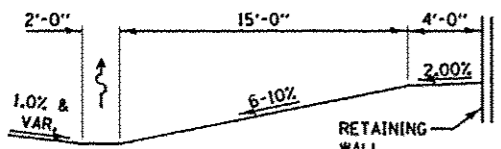
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DRAWN	MCD	5/28/13
REVIEWED	MPB	5/23/13

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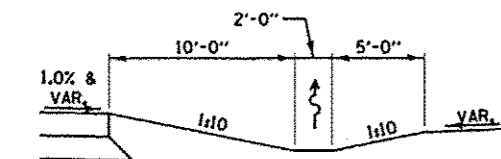
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SEMINARY STREET/KELLOGG STREET OLD SEMINARY STREET GRADING PLAN</b>	
SCALE: 1"=20'	SHEET NO. OF SHEETS STA. TO STA.

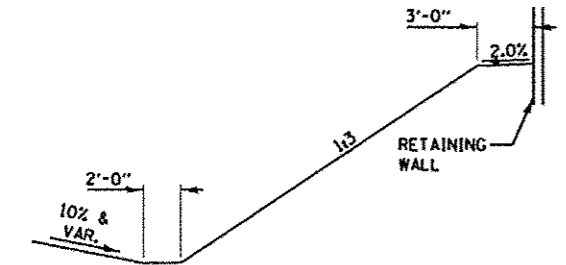
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	168
6800				
6801				
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**SECTION A-A**

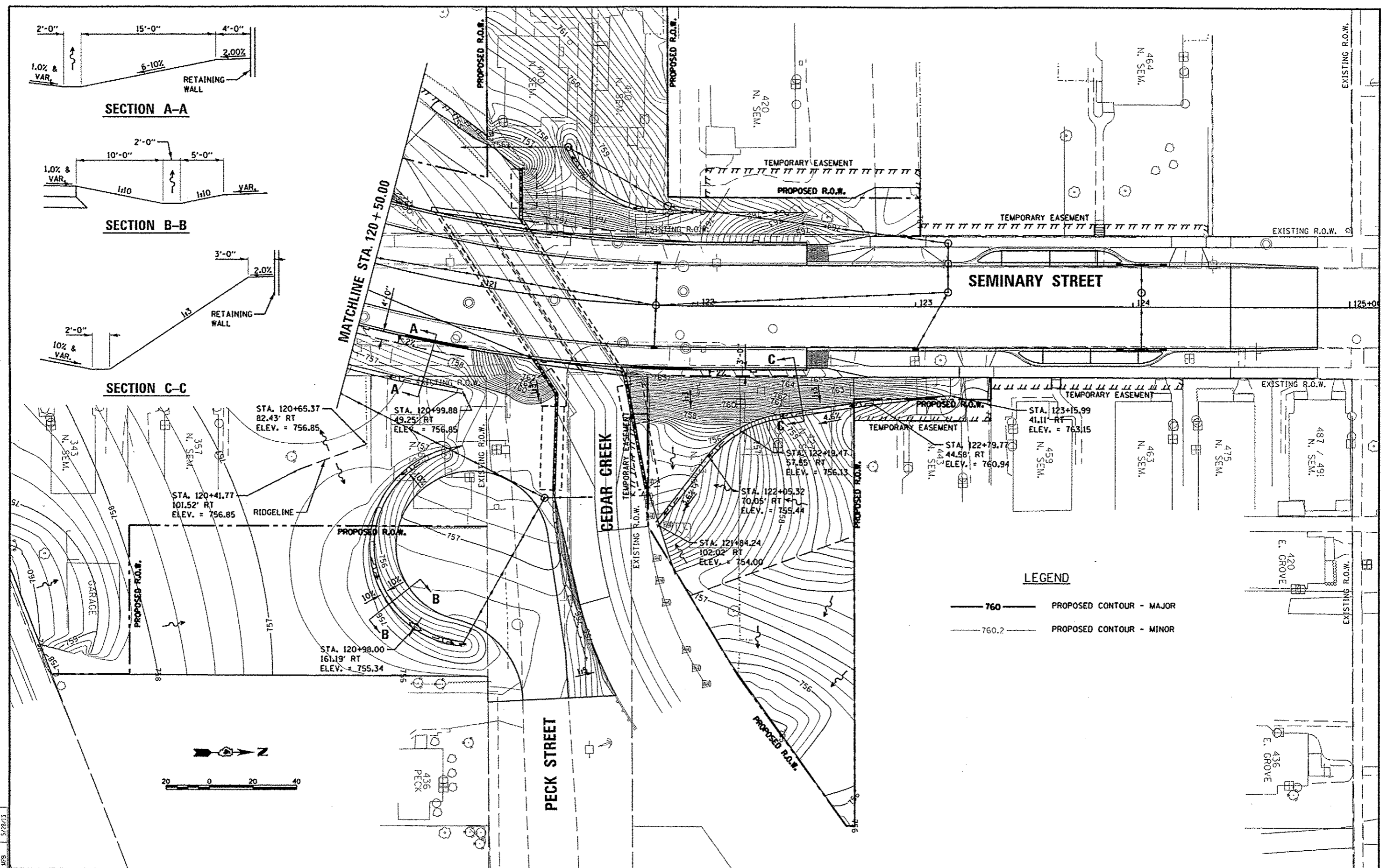


**SECTION B-B**



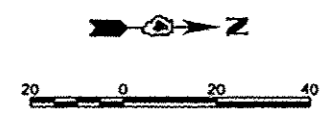
**SECTION C-C**

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**LEGEND**

- 760 — PROPOSED CONTOUR - MAJOR
- 760.2 — PROPOSED CONTOUR - MINOR



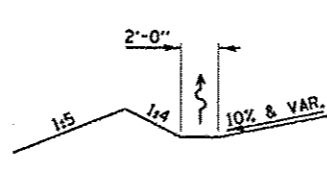
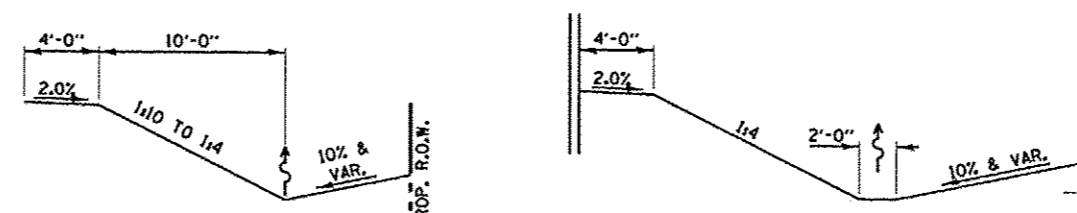
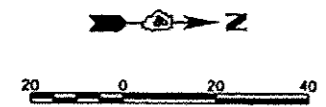
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		MPB	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET/KELLOGG STREET**  
**NORTHEAST GRADING PLAN**

F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799 6800 6801	05-00501-21-GS	KNOX	269	169
CONTRACT NO. 89419				
SCALE: 1"=20'		SHEET NO. OF SHEETS		STA. TO STA.



**LEGEND**

— 760 — PROPOSED CONTOUR - MAJOR

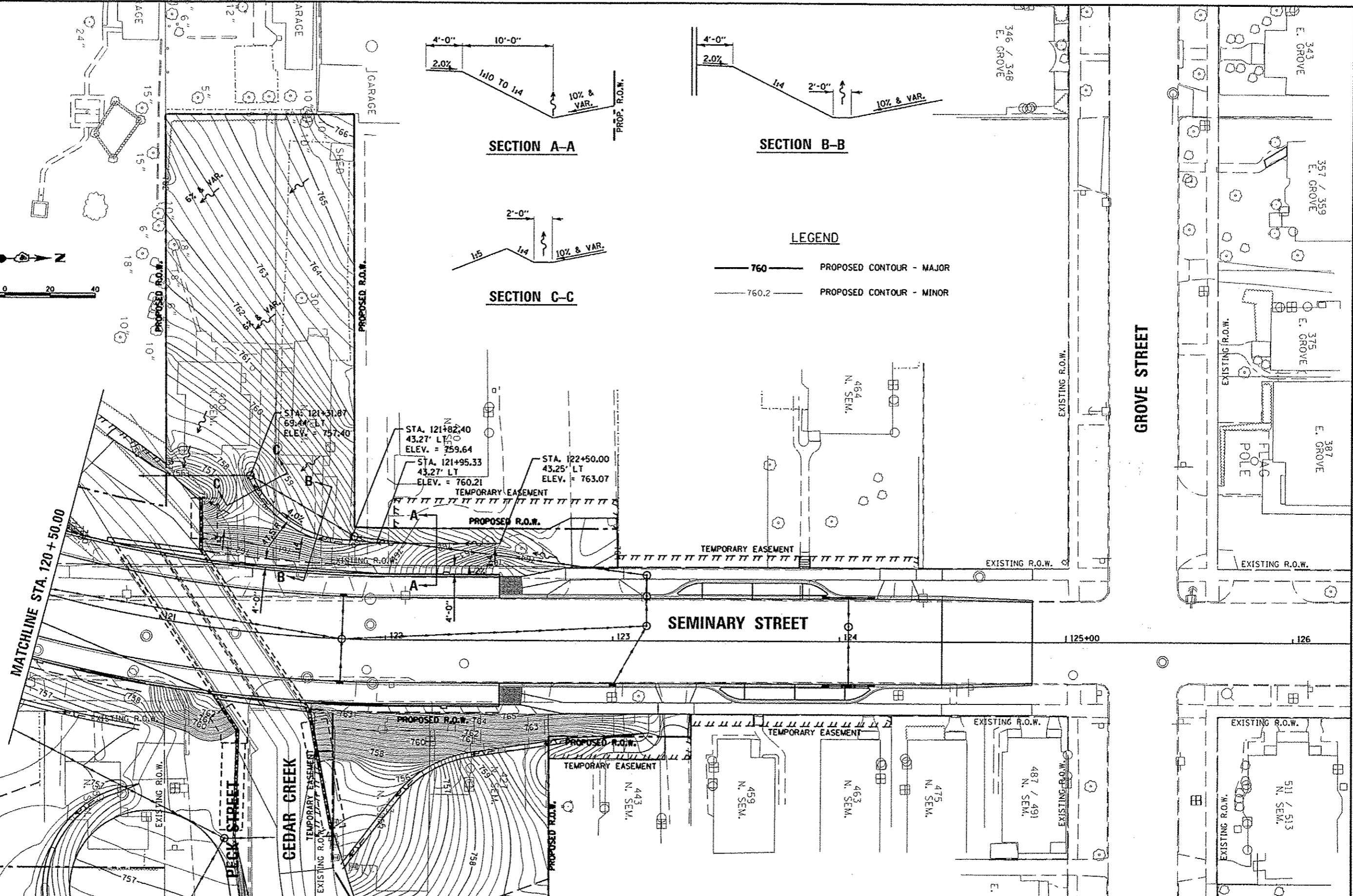
— 760.2 — PROPOSED CONTOUR - MINOR

MATCHLINE STA. 120 + 50.00

PECK STREET  
 CEDAR CREEK

SEMINARY STREET

GROVE STREET



LAYOUT	5/27/12	RLA
DRAWN	5/28/13	MGO
CHECKED	5/28/13	MPB

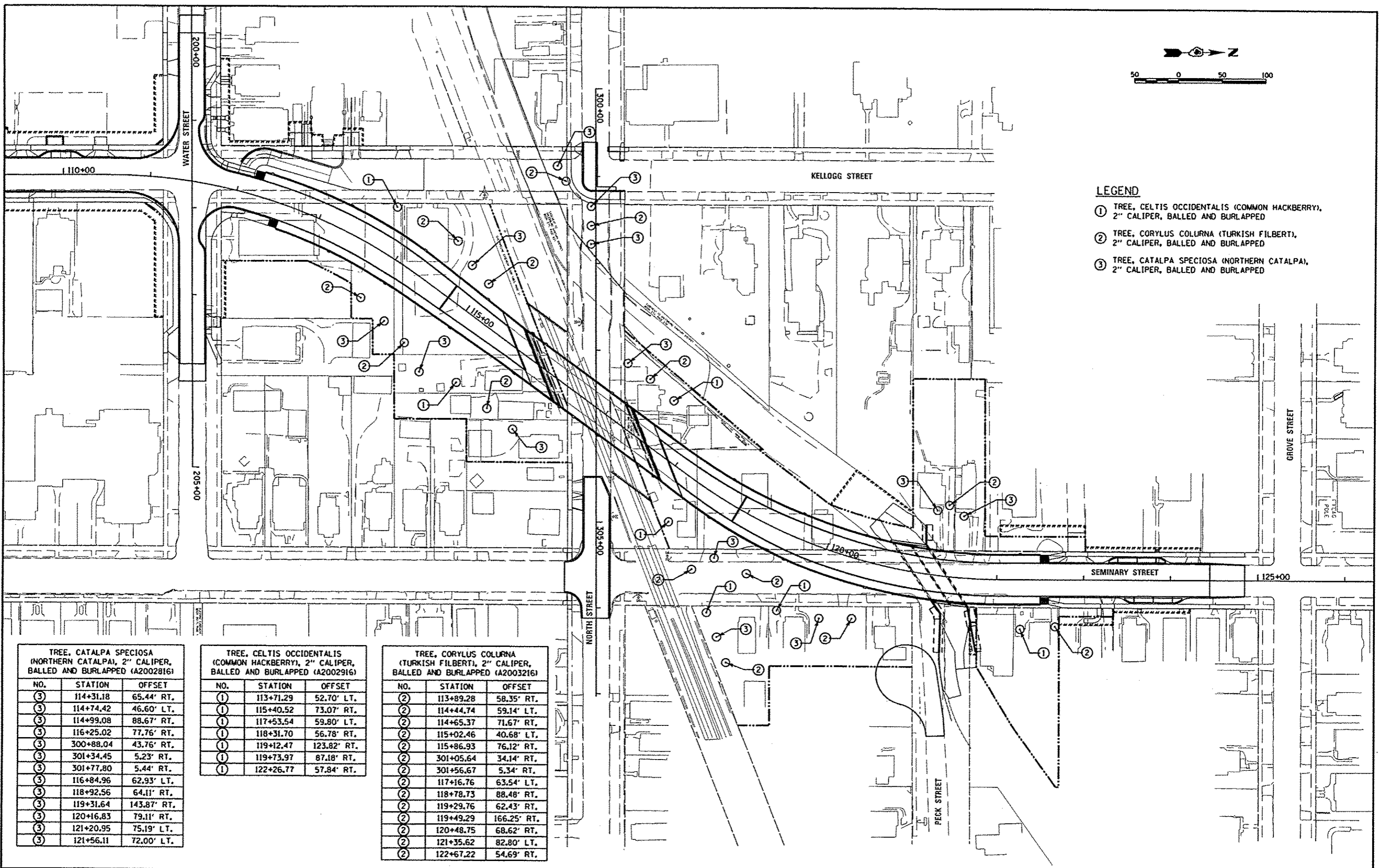
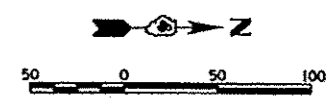
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		CHECKED	MPB
		DATE	5/29/13
		REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET/KELLOGG STREET  
 NORTHWEST GRADING PLAN**

SCALE: 1"=20'    SHEET NO.    OF    SHEETS    STA.    TO    STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-05	KNOX	269	170
6800				
6801				
CONTRACT NO. 89419				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① TREE, *CELTIS OCCIDENTALIS* (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
  - ② TREE, *CORYLUS COLURNA* (TURKISH FILBERT), 2" CALIPER, BALLED AND BURLAPPED
  - ③ TREE, *CATALPA SPECIOSA* (NORTHERN CATALPA), 2" CALIPER, BALLED AND BURLAPPED

TREE, <i>CATALPA SPECIOSA</i> (NORTHERN CATALPA), 2" CALIPER, BALLED AND BURLAPPED (A2002816)		
NO.	STATION	OFFSET
③	114+31.18	65.44' RT.
③	114+74.42	46.60' LT.
③	114+99.08	88.67' RT.
③	116+25.02	77.76' RT.
③	300+88.04	43.76' RT.
③	301+34.45	5.23' RT.
③	301+77.80	5.44' RT.
③	116+84.96	62.93' LT.
③	118+92.56	64.11' RT.
③	119+31.64	143.87' RT.
③	120+16.83	79.11' RT.
③	121+20.95	75.19' LT.
③	121+56.11	72.00' LT.

TREE, <i>CELTIS OCCIDENTALIS</i> (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED (A2002916)		
NO.	STATION	OFFSET
①	113+71.29	52.70' LT.
①	115+40.52	73.07' RT.
①	117+53.54	59.80' LT.
①	118+31.70	56.78' RT.
①	119+12.47	123.82' RT.
①	119+73.97	87.18' RT.
①	122+26.77	57.84' RT.

TREE, <i>CORYLUS COLURNA</i> (TURKISH FILBERT), 2" CALIPER, BALLED AND BURLAPPED (A2003216)		
NO.	STATION	OFFSET
②	113+89.28	58.35' RT.
②	114+44.74	59.14' LT.
②	114+65.37	71.67' RT.
②	115+02.46	40.68' LT.
②	115+86.93	76.12' RT.
②	301+05.64	34.14' RT.
②	301+56.67	5.34' RT.
②	117+16.76	63.54' LT.
②	118+78.73	88.48' RT.
②	119+29.76	62.43' RT.
②	119+49.29	166.25' RT.
②	120+48.75	68.62' RT.
②	121+35.62	82.80' LT.
②	122+67.22	54.69' RT.

LAYOUT	MPB	5/27/12
DRAWN	RLA	5/28/13
REVIEWED	MPB	5/28/13

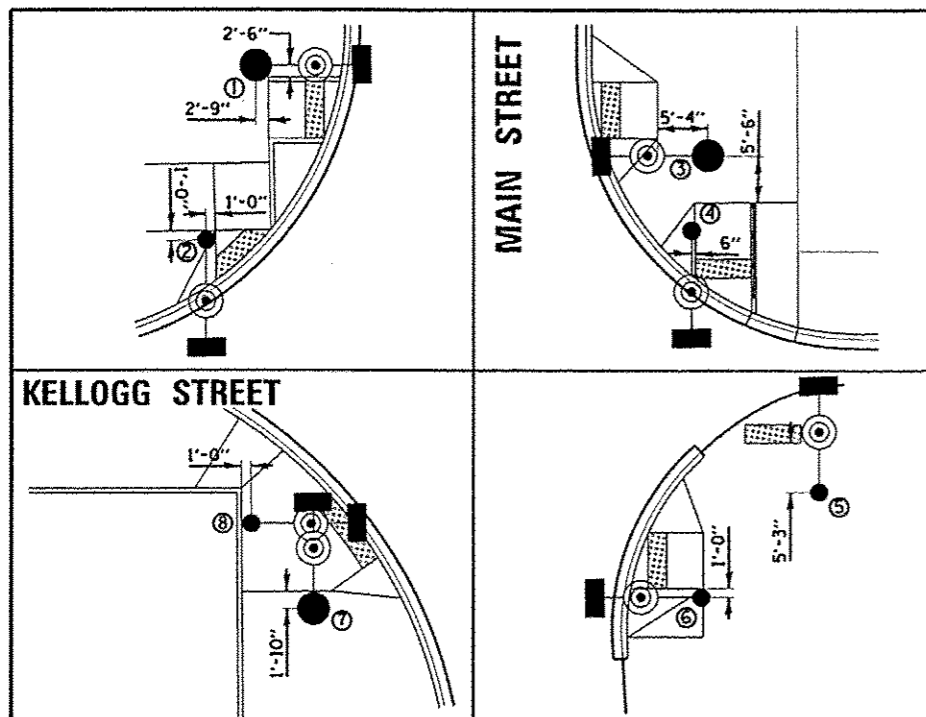
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

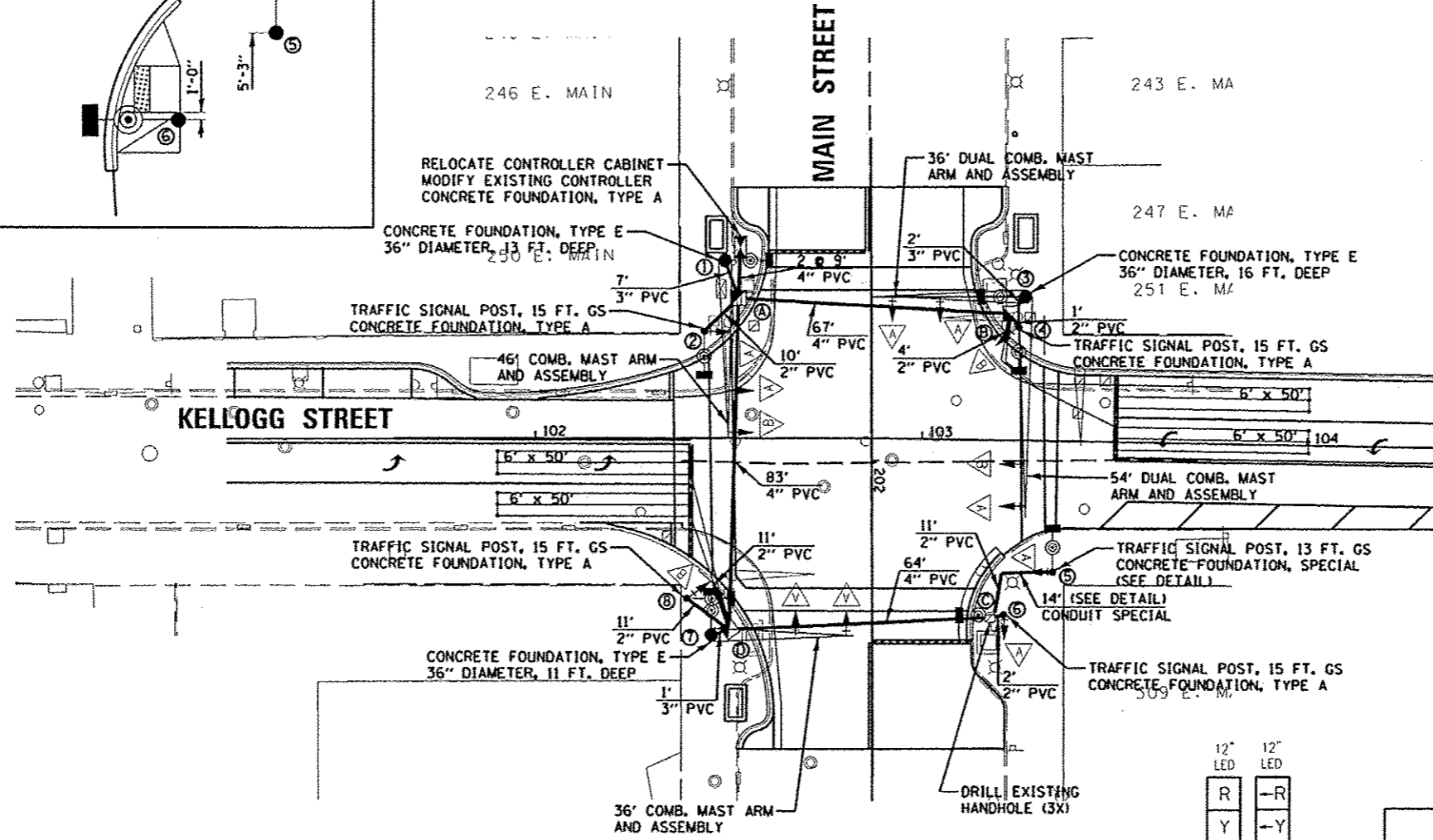
**SEMINARY STREET/KELLOGG STREET  
 TREE REPLACEMENT PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-G5	KNOX	269	171
6800				
6801				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 89419	



- NOTES:**
- SERVICE INSTALLATION, TYPE C (MODIFIED) TO INCLUDE COST OF WIRE, CONDUIT AND INSTALLING METER FROM EXISTING SERVICE LOCATION.
  - SEE TRAFFIC SIGNAL DETAILS FOR FOUNDATION CONCRETE FOUNDATION, SPECIAL AND CONDUIT, SPECIAL.
  - EXISTING CONTROLLER CABINET SHALL BE RELOCATED TO THE LOCATION SHOWN.
  - ALL EXISTING HANDHOLES SHOWN BELOW SHALL BE REMOVED. REMOVAL WILL BE FOR AS EACH AND WILL INCLUDE ANY CONDUIT, WIRING, OR SPlicing NECESSARY TO RECONNECT THE EXISTING LIGHTING SYSTEM.



P.A. ITEM	DESCRIPTION	UNIT	QUANTITY
7200100	SIGN PANEL - TYPE 1	SQ FT	16
7200200	SIGN PANEL - TYPE 2	SQ FT	50
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	47
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	8
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	256
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
81702130	ELECTRIC CABLE IN CONDUIT, 60V (DUP-TYPE USE) 1/2 NO. 8	FOOT	1435.5
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC	FOOT	2215
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 TC	FOOT	501.5
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 18 3 P/4P	FOOT	200
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	424.5
87502470	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	1
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	4
87702010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
87702050	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
87704540	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 64 FT. AND 36 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	15
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	EACH	40
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION BRACKET MOUNTED	EACH	3
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION MAST ARM MOUNTED	EACH	6
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION BRACKET MOUNTED	EACH	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION MAST ARM MOUNTED	EACH	2
88192717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
88200310	TRAFFIC SIGNAL BACKPLATE, LOUVERED PLASTIC	EACH	13
88500100	INDUCTIVE LOOP DETECTOR	EACH	4
88500100	DETECTOR LOOP, TYPE I	FOOT	778
88900100	PEDESTRIAN PUSH-BUTTON	FOOT	6
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502370	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89503390	REMOVE EXISTING HANDHOLE	EACH	7
X8850135	SERVICE INSTALLATION, TYPE C (MODIFIED)	EACH	1
X8210075	LUMINAIRE, METAL HALIDE HORIZONTAL MOUNT 400 WATT	EACH	4
X8850224	RELOCATE CONTROLLER CABINET	EACH	1
CONCRETE FOUNDATION, SPECIAL	EACH	1	
CONDUIT, SPECIAL	FOOT	14	

**MAST ARM POLES & POSTS**

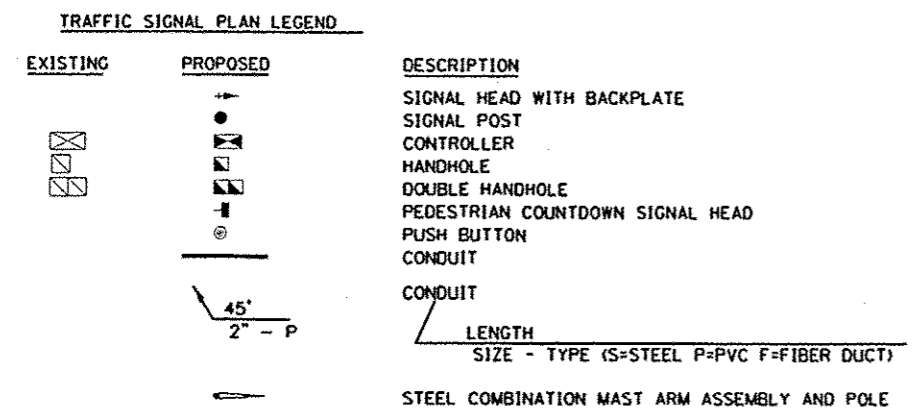
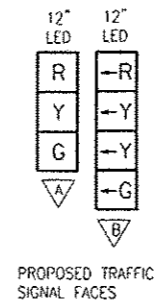
POLE I.D.	CONTROL LINE	STATION	OFFSET
①	MAIN STREET	201+47	38' RT
②	MAIN STREET	201+66	43' RT
③	MAIN STREET	201+57	40' LT
④	MAIN STREET	201+65	38' LT
⑤	MAIN STREET	202+29	47' LT
⑥	MAIN STREET	202+41	34' LT
⑦	MAIN STREET	202+46	42' RT
⑧	MAIN STREET	202+36	48' RT

**HANDHOLES**

HANDHOLE I.D.	CONTROL LINE	STATION	OFFSET
Ⓐ	MAIN STREET	201+57	34' RT
Ⓑ	MAIN STREET	201+62	36' LT
Ⓒ	MAIN STREET	202+41	31' LT
Ⓓ	MAIN STREET	202+44	37' RT

**HANDHOLE REMOVAL**

CONTROL LINE	STATION	OFFSET
MAIN STREET	202+20	53' RT
MAIN STREET	202+35	37' RT
MAIN STREET	201+88	54' LT
MAIN STREET	201+79	54' LT
MAIN STREET	201+65	30' RT
MAIN STREET	201+63	41' RT
MAIN STREET	201+63	41' LT

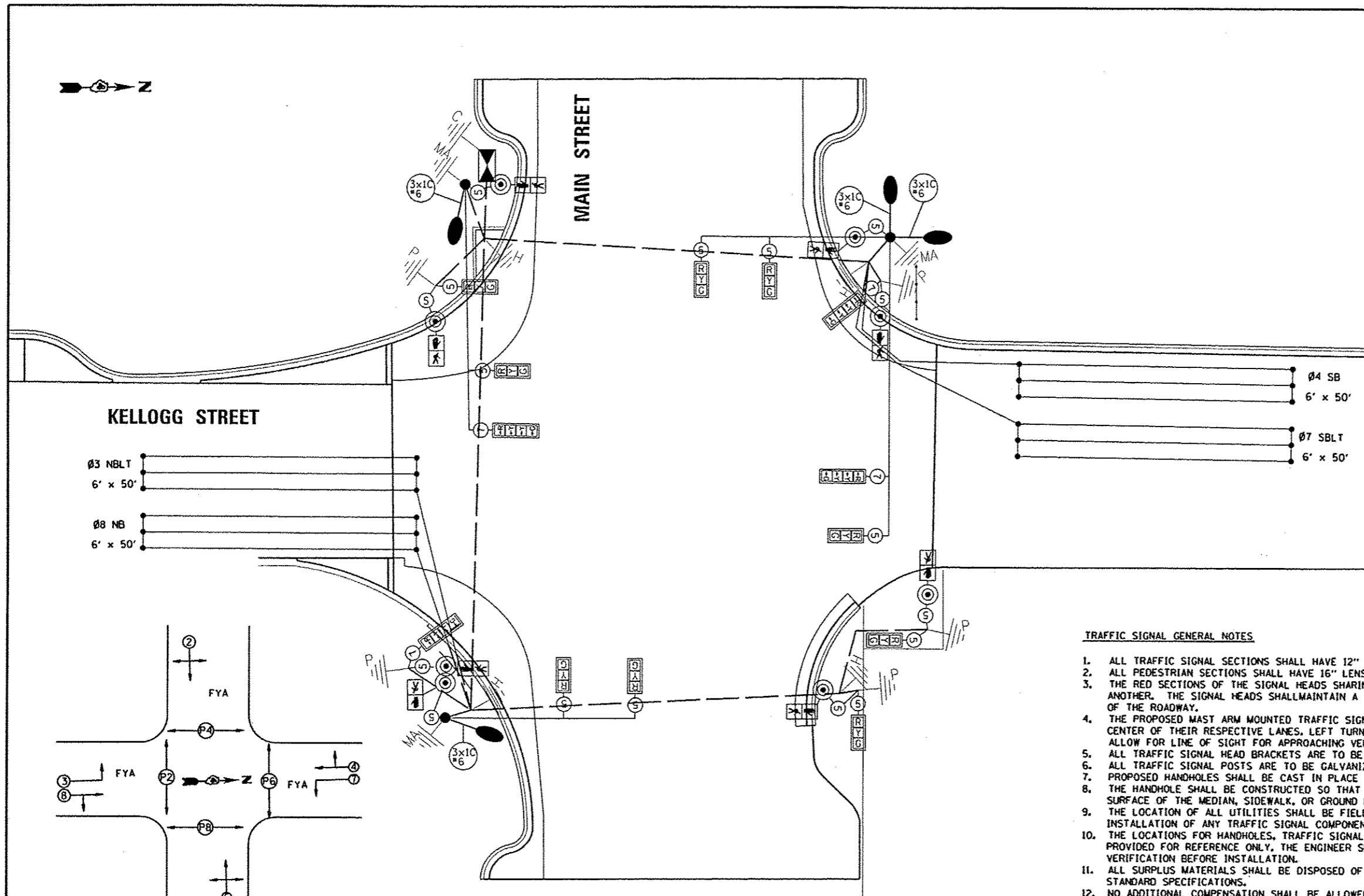


LAYOUT	5/27/12
DRAWN	5/28/13
REVIEWED	5/28/13

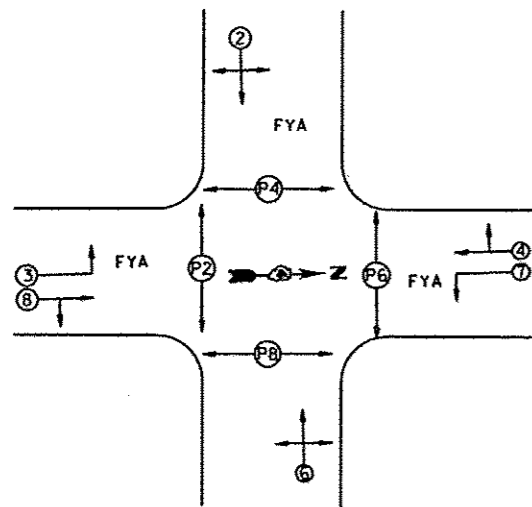
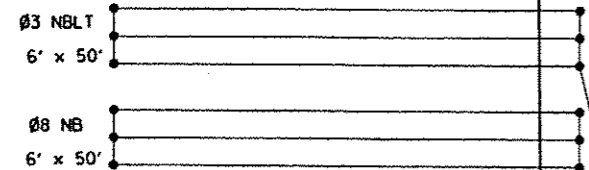


**TRAFFIC SIGNAL WIRING DIAGRAM LEGEND**

PROPOSED	DESCRIPTION
	ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS
	SIGNAL FACE WITH BACKPLATE
	DIRECTIONAL SIGNAL SECTION
	12" SIGNAL SECTION
	WALK/DON'T WALK SECTION + COUNT DOWN
	GROUND WIRE (POLE)
	GROUND WIRE (MAST ARM)
	PEDESTRIAN PUSHBUTTON
	CONDUIT
	GROUND WIRE (CONTROLLER)
	LUMINAIRE
	GROUND WIRE (HANDHOLE)



**KELLOGG STREET**



**PHASE DESIGNATION DIAGRAM**

**TRAFFIC SIGNAL GENERAL NOTES**

- ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
- ALL PEDESTRIAN SECTIONS SHALL HAVE 16" LENSES WITH A MAN/HAND OVERLAY AND COUNTDOWN TIMER.
- THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER. THE SIGNAL HEADS SHALL MAINTAIN A 16' MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
- THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES. LEFT TURN SIGNAL HEADS MAY BE MOVED 1 FOOT TO ALLOW FOR LINE OF SIGHT FOR APPROACHING VEHICLES.
- ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
- ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
- PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
- THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
- THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
- THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
- ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH OR IN AN INDIRECT ROUTE BETWEEN STRUCTURES TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
- ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, SERVICE RISERS, EXPOSED METALLIC CONDUITS, AND PHOTOCCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
- DRILLING HOLES THROUGH EXISTING CURB AND GUTTER, INSERTING CONDUIT AND FILLING WITH APPROVED SEALER FOR DETECTOR LOOPS SHALL BE INCLUDED IN THE COST OF THE CONDUIT.
- THE LENGTH OF DETECTOR LOOP CABLE FROM CURB TO THE HANDHOLE SHALL BE INCLUDED IN THE DETECTOR LOOP QUANTITY.
- LOOPS IN THE SAME LANE SHALL BE WOUND ALTERNATELY CLOCKWISE AND COUNTER CLOCKWISE.
- THE CONDUITS SHOWN CONNECTING THE BACK OF CURB TO THE ROADSIDE HANDHOLE SHALL CONTAIN ONLY DETECTOR LOOP CABLE.
- A 1/4" DIAMETER CONTINUOUS POLYESTER MULE TAPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER.

LAYOUT	6/27/12
DRAWN	5/22/13
CHECKED	5/29/13

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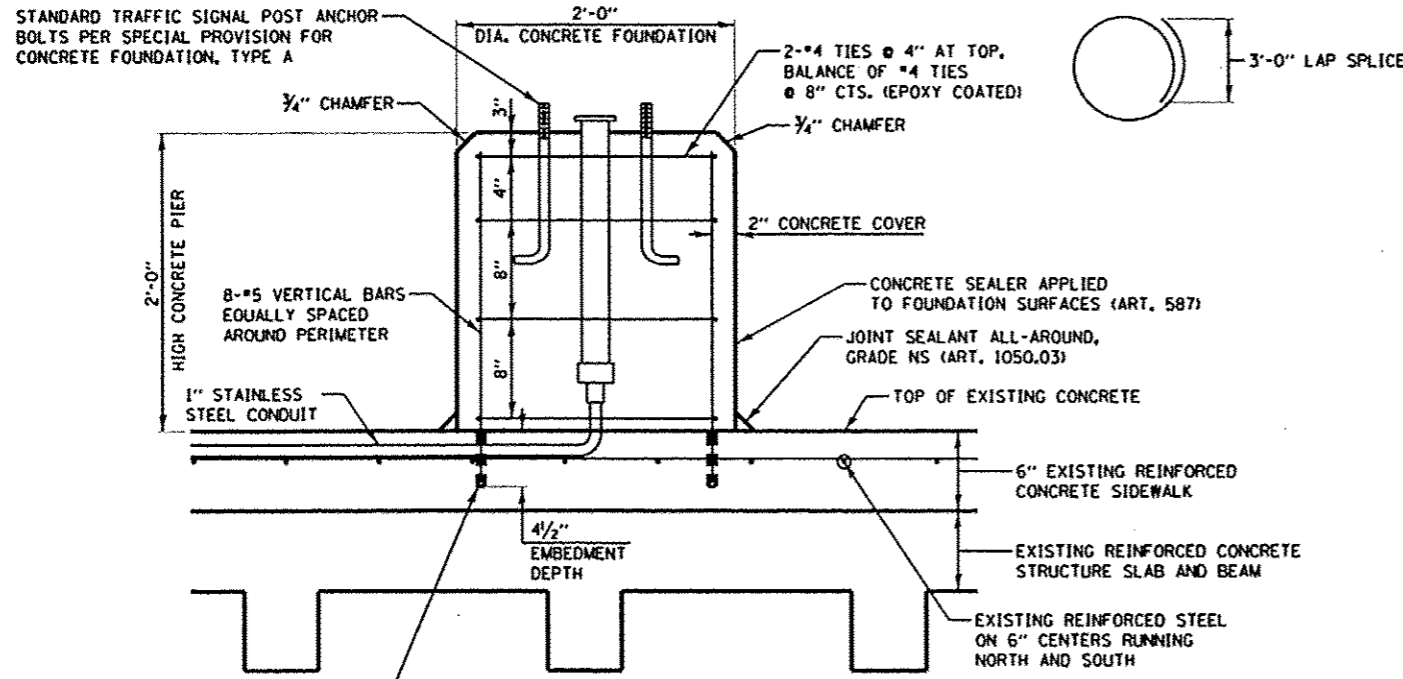
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**KELLOGG STREET AND MAIN STREET  
 CABLE PLAN**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	173
6800				
6801				
CONTRACT NO.89419				
FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT				

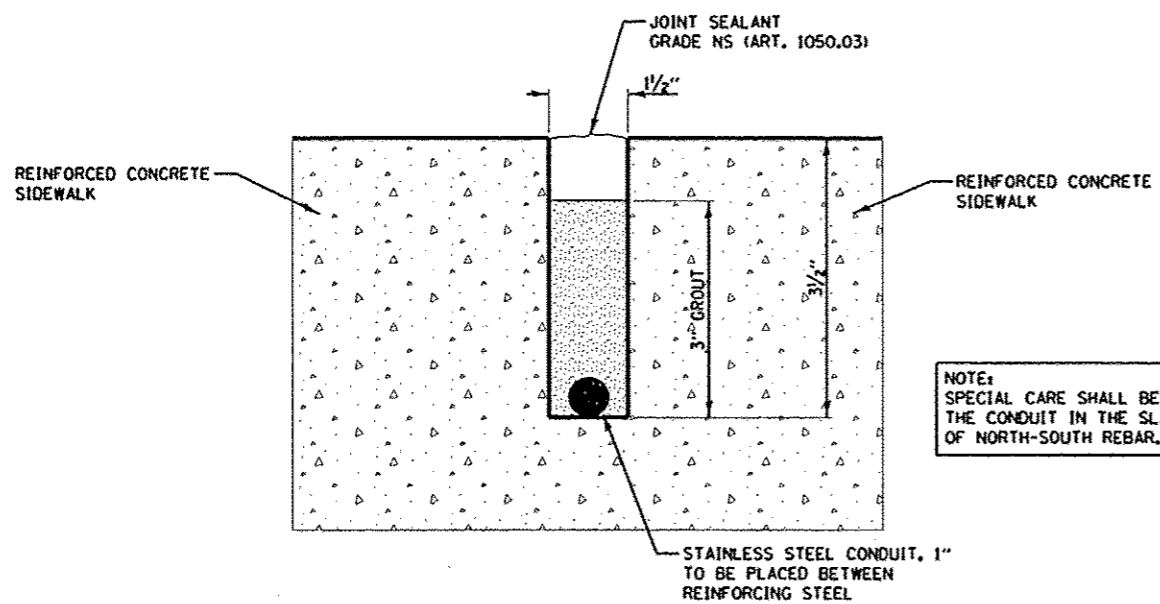




DRILL AND EPOXY VERTICAL DOWEL BARS INTO EXISTING REINFORCED CONCRETE SIDEWALK (ART. 584). FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.

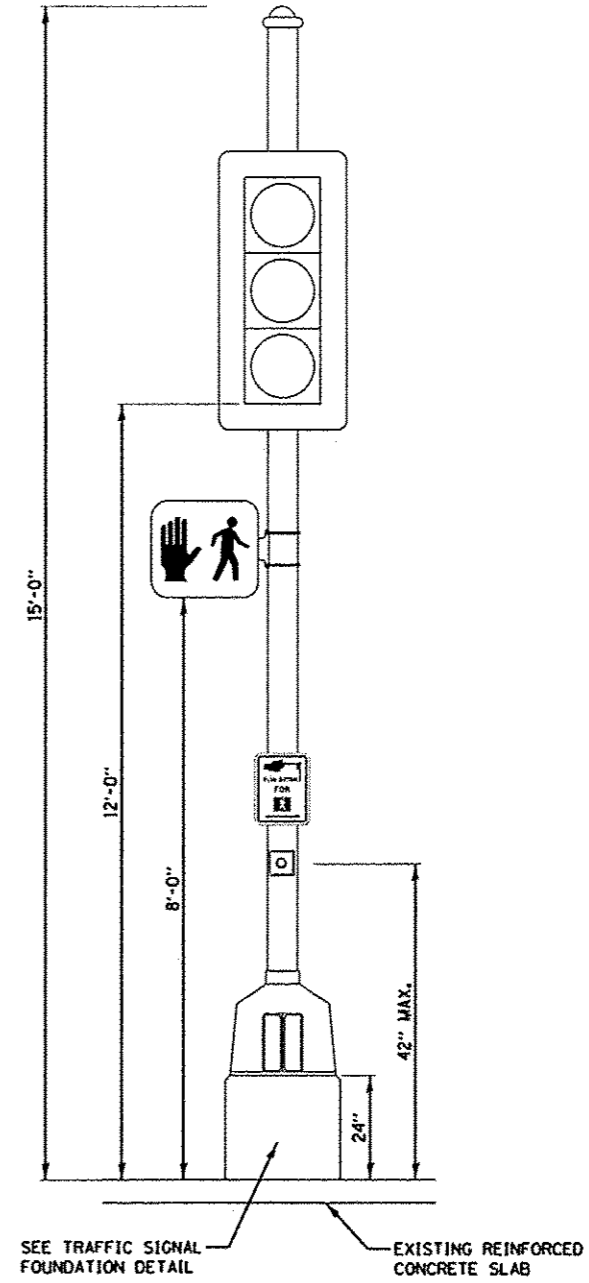
**CONCRETE FOUNDATION, SPECIAL TRAFFIC SIGNAL FOUNDATION DETAIL POST #5**

**SPECIAL INSPECTION: EPOXY DOWEL BARS ANCHORAGE**  
 SPECIAL INSPECTION MUST BE PERFORMED. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, HOLE DIMENSIONS, HOPE CLEANING PROCEDURES, AND ANCHOR EMBEDMENT. THE SPECIAL INSPECTOR MUST VERIFY THE INSTALLATIONS OF EACH ADHESIVE ANCHOR BY CONSTRUCTION PERSONNEL ON SITE.



**CONDUIT, SPECIAL**

**NOTE:**  
 SPECIAL CARE SHALL BE TAKEN TO LOCATE THE CONDUIT IN THE SLAB BETWEEN RUNS OF NORTH-SOUTH REBAR.



**POST #5 LOADING DIAGRAM**

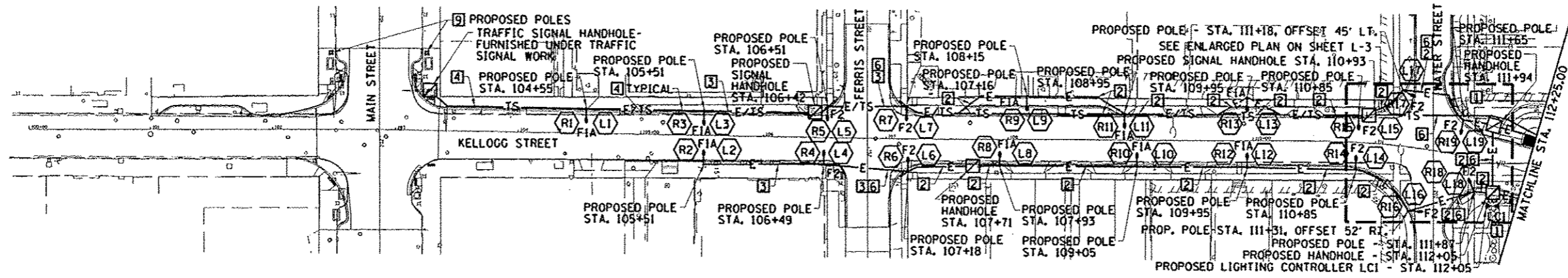
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REVIEWED	5/29/13

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		DATE	REVISED
		5/29/13	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**KELLOGG STREET AND MAIN STREET  
 TRAFFIC SIGNAL FOUNDATION DETAIL**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	175
6800				
6801				
<b>CONTRACT NO. 89419</b>				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**PLAN KEYED NOTES:**

- 1] LTG 2"10, RCPT 2"6, #6 GRD. 2" C. PVC.
- 2] LTG 2"10, RCPT 4"6, #6 GRD. 2" C. PVC.
- 3] LTG 2"10, RCPT 2"6, #6 GRD. 1 1/2" C. PVC.
- 4] EMPTY (SIG.), 2" C. PVC - ROUTE IN COMMON TRENCH WITH LTG/RCPT OR PARAPET.
- 5] EMPTY 2" C. PVC BETWEEN LIGHT POLES, OR HANDHOLE
- 6] PROVIDE PVC SCHED. 80 CONDUIT BELOW ROADWAY (BORED & PULLED).
- 7] PARAPET MOUNT LIGHT POLE FOUNDATION, FOUNDATION INCLUDED WITH MSE WALL OR BRIDGE SUPERSTRUCTURE.
- 8] GROUND MOUNT LIGHT POLE FOUNDATION.
- 9] EXISTING DECORATIVE LIGHT POLE/LUMINAIRES, REMOVE AND RELOCATE AS SHOWN. REMOVE EXISTING FOUNDATION 2'-0" BELOW GRADE, REROUTE/EXTEND EXISTING CONDUIT AND WIRE TO NEW LIGHT POLE LOCATION.
- 10] STUB OUT 2-2" C. AND 2-1" C. FOR FUTURE LOCATIONS OF CAMERA CONTROLLER.

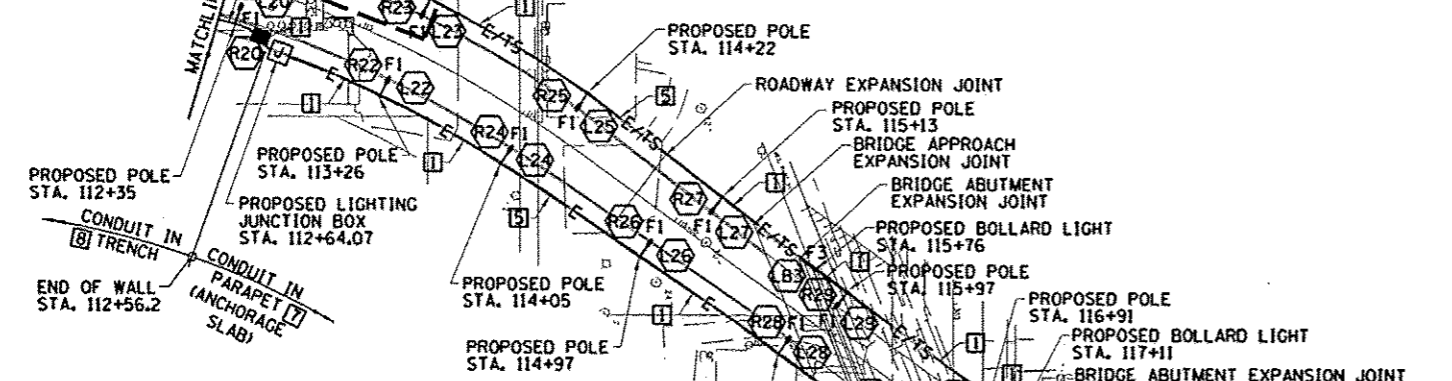
**LEGEND**

- E — EXISTING UNDERGROUND ELECTRIC LINE
- US — EXISTING UNDERGROUND SECONDARY ELECTRIC
- UP — EXISTING UNDERGROUND PRIMARY ELECTRIC
- E — PROPOSED UNDERGROUND OR PARAPET MOUNTED ELECTRIC LINE
- E/TS — PROPOSED UNDERGROUND OR PARAPET MOUNTED SIGNAL LINE
- (Symbol) — PROPOSED ROADWAY LIGHT POLE/FIXTURE WITH FESTOON RECEPTACLE
- (Symbol) — PROPOSED LIGHTING CONTROLLER
- (Symbol) — PROPOSED BOLLARD LIGHT
- (Symbol) — PROPOSED ROADWAY LIGHT POLE/FIXTURE
- (Symbol) — EXISTING ROADWAY LIGHT POLE/FIXTURE
- (Symbol) — EXISTING POWER POLE
- (Symbol) — PROPOSED JUNCTION BOX
- (Symbol) — PROPOSED HANDHOLE

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

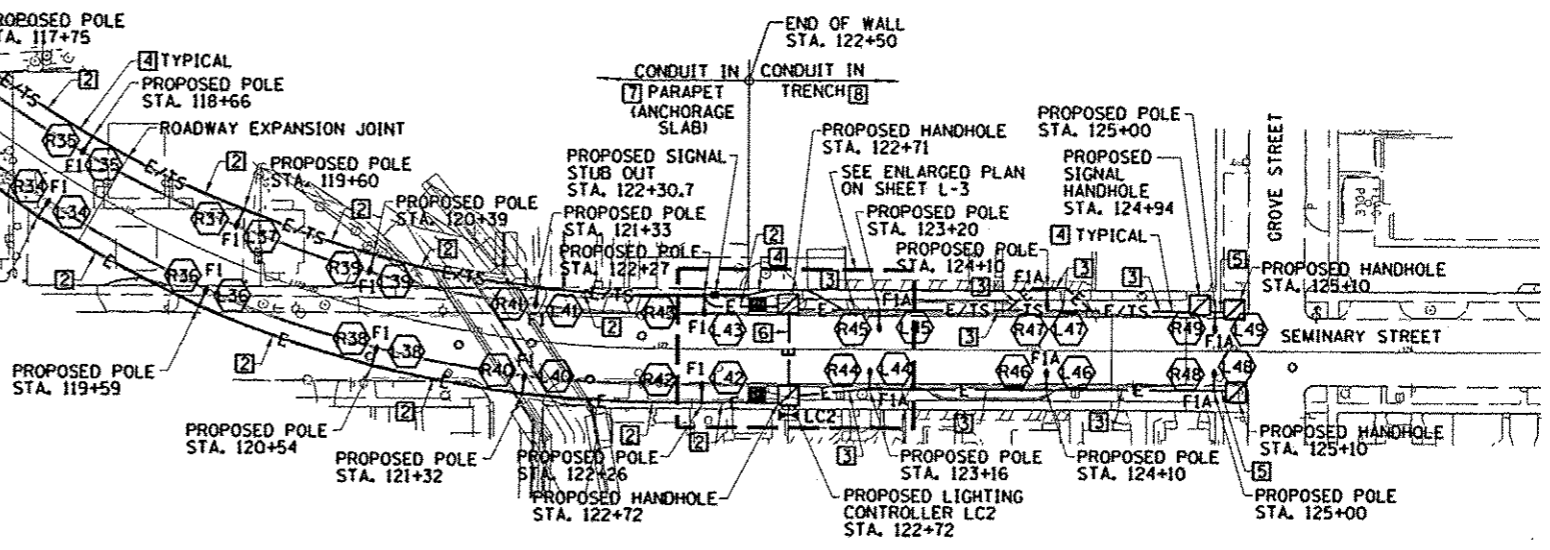
CONTACT JOINT UTILITY LOCATING INFORMATION FOR EXCAVATING (JULIE) 1-800-892-0123 FOR UTILITY INFORMATION.

END OF WALL STA. 112+25.48  
 CONDUIT IN TRENCH  
 CONDUIT IN PARAPET (ANCHORAGE SLAB)  
 PROPOSED POLE - STA. 112+33  
 PROPOSED SIGNAL CONDUIT STUB OUT STA. 112+37.56  
 PROPOSED SIGNAL CONDUIT STUB OUT STA. 112+50  
 SEE ENLARGED PLAN ON SHEET L-3  
 PROPOSED POLE STA. 113+27



**LIGHTING GENERAL NOTES:**

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRE CONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF THE "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
3. ALL CONDUIT UNDERGROUND DIRECT BURIAL SHALL BE SCHEDULE 80 PVC. ALL CONDUIT ENCASED IN CONCRETE SHALL BE SCHEDULE 40 PVC.
4. EXISTING ROADWAY LIGHTING SHALL REMAIN ACTIVE IN ALL AREAS. ONLY THE PORTION OF EXISTING ROADWAY THAT IS IN ACTIVE CONSTRUCTION MAY BE REMOVED.



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 Hanson Professional Services, Inc.

LAYOUT DRAWN REVISIONS	FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING PLAN</b>		F.A.U. RT# 6799 6806 6801	SECTION 05-00501-21-GS	COUNTY KNOX	TOTAL SHEETS 269 176	SHEET NO. L-1
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			CHECKED	REVISED								
			DATE	REVISED								

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LUMINAIRE PERFORMANCE TABLE

GIVEN CONDITIONS		
ROADWAY DATA:	PAVEMENT WIDTHS	38 FT
	NUMBER OF LANES	2 + PATHWAY
	MEDIAN WIDTH	11 FT
	IES SURFACE CLASSIFICATION	R1
	0-ZERO VALUE	0.10
LIGHT POLE DATA:	MOUNTING HEIGHT	33 FT
	MAST ARM LENGTH	8 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	2.5 FT
LUMINAIRE DATA:	LAMP TYPE	53W 3 LED LIGHT BARS
	LAMP LUMENS	3,830
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	CUTOFF
	IES LATERAL DISTRIBUTION	TYPE IIIIR
	TOTAL LIGHT LOSS FACTOR	0.8
LAYOUT DATA:	SPACING	90 FT
	CONFIGURATION	OPPOSITE
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	5.5 FT

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.

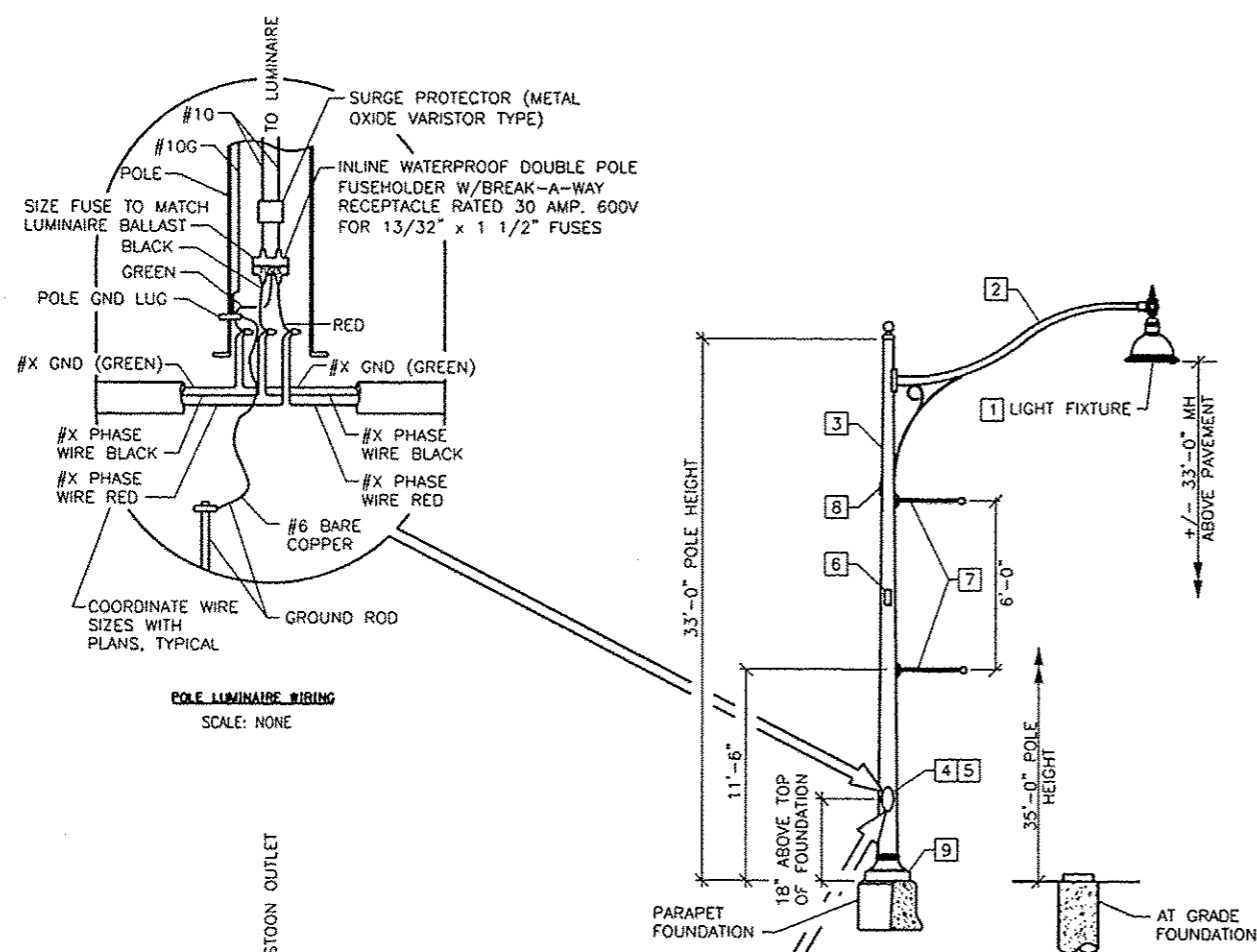
PERFORMANCE REQUIREMENTS

NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.

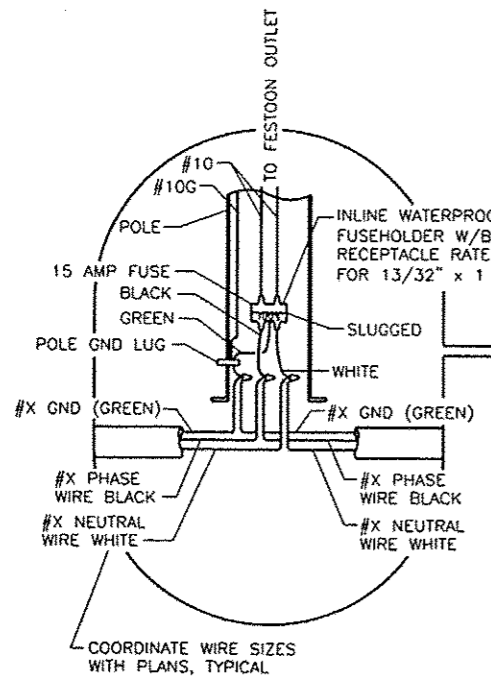
ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (EA/EV)	0.77 FC
	UNIFORMITY RATIO, (EA/EV/EMIN)	1.17
LUMINANCE:	AVERAGE LUMINANCE, (LAVE)	0.69 Cd/m2
	UNIFORMITY RATIOS: (LAVE/LMIN)	1.25
	(LMAX/LMIN)	1.56
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.14

KEYED NOTES:

- DECORATIVE DOWNLIGHT LED LUMINAIRE, TYPE III DISTRIBUTION, BLACK FINISH. NOTE: PROVIDE HIGHER OUTPUT LUMINAIRE WHERE INDICATED ON DRAWINGS.
- 8'-0" DECORATIVE ALUMINUM MAST ARM WITH BLACK GLOSS FINISH.
- ONE PIECE SEAMLESS ROUND TAPERED ALUMINUM POLE WITH BLACK GLOSS FINISH, WALL THICKNESS 0.25".
- 4" x 8" HANDHOLE.
- POLES SHALL HAVE A GROUND LUG OPPOSITE HANDHOLE.
- INTERNAL VIBRATION DAMPER (AT BRIDGE LOCATIONS ONLY).
- BANNER ARM WITH PLANTER HOOK RECEPTACLE, BLACK GLOSS FINISH. (BANNER SIZE 72" x 36")
- WEATHERPROOF DUPLEX RECEPTACLE (WEATHER RESISTANT GFI).
- LOW PROFILE BASE COVER ALL LOCATIONS EXCEPT ON BRIDGE (BLACK).
- TOP OF CONCRETE FOUNDATION SHALL BE 1 1/2" ABOVE TOP OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

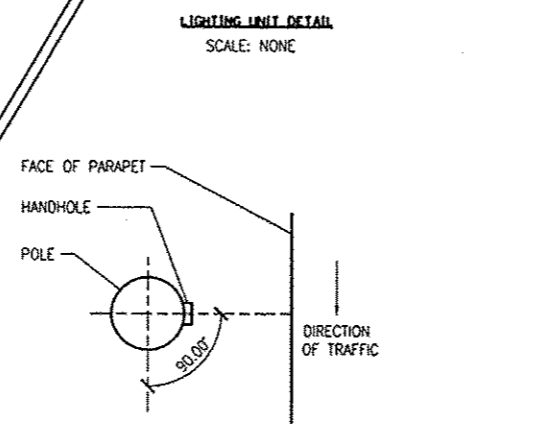


POLE LUMINAIRE WIRING  
 SCALE: NONE

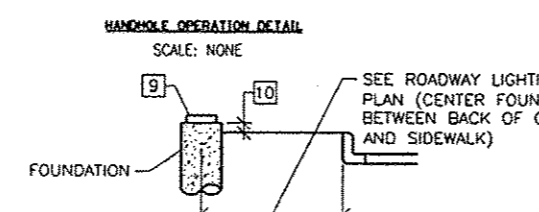


POLE FESTOON OUTLET WIRING  
 SCALE: NONE

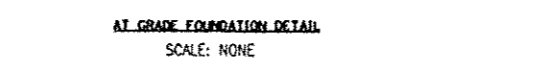
LIGHTING UNIT DETAIL  
 SCALE: NONE



HANDHOLE OPERATION DETAIL  
 SCALE: NONE



AT GRADE FOUNDATION DETAIL  
 SCALE: NONE



LIGHTING FIXTURE SCHEDULE						
FIXT. TYPE	DESCRIPTION	MANUFACTURER & CATALOG NO.	LAMPS/ WATTS	VOLTS	MOUNTING	REMARKS
F1	POLE MOUNTED DECORATIVE HEAD ROADWAY LUMINAIRE, HEAVY GAUGE ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, ANODIZED ALUMINUM TYPE III FULL CUTOFF OPTICS, TEMPERED GLASS LENS, HPF LED DRIVERS WITH THD LESS THAN 20%, INTEGRAL SURGE PROTECTOR, UL LISTED WET LOCATIONS, IP65 RATED.	STERNBERG: 1521RLED/ FG/ CAS8/ HS-B/ 2433ARTS/ BCCA/ 3ARCAS7R- MDL03/ 1-GFI-HUC/ 1-BDBA/ BK OR APPROVED EQUAL	LED LIGHT SOURCE, 4500 DEG. K, 53 TOTAL INPUT WATTS	240 (MULTI-VOLT DRIVER)	MOUNTED ON A 33'-0" POLE WITH AN 8'-0" MAST ARM. PROVIDE DOUBLE BANNER ARM (DBA) AND GFCI WEATHERPROOF RECEPTACLE (GFI). FIXTURE MOUNTING HEIGHT 33'-0".	SUPPLY A 90 MPH RATED POLE AT 200% OF THE RATED EPA OF THE FIXTURE AND MAST ARM PROVIDED.  SPECIFIED FIXTURE EPA RATING EQUALS 0.72 SQ. FT. EACH.  PROVIDE VIBRATION DAMPER ON BRIDGE MOUNT POLES ONLY, INCLUDING A BASE EXTENSION FOR THE BASE COVER.
F1A	POLE MOUNTED DECORATIVE HEAD ROADWAY LUMINAIRE, HEAVY GAUGE ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, ANODIZED ALUMINUM TYPE III FULL CUTOFF OPTICS, TEMPERED GLASS LENS, HPF LED DRIVERS WITH THD LESS THAN 20%, INTEGRAL SURGE PROTECTOR, UL LISTED WET LOCATIONS, IP65 RATED.	STERNBERG: 1521RLED/ FG/ CAS8/ HS-B/ 2433ARTS/ BCCA/ 3ARCAS7R- MDL03/ 1-GFI-HUC/ 1-BDBA/ BK OR APPROVED EQUAL	LED LIGHT SOURCE, 4500 DEG. K, 53 TOTAL INPUT WATTS	240 (MULTI-VOLT DRIVER)	MOUNTED ON A 35'-0" POLE WITH AN 8'-0" MAST ARM. PROVIDE DOUBLE BANNER ARM (DBA) AND GFCI WEATHERPROOF RECEPTACLE (GFI). FIXTURE MOUNTING HEIGHT 33'-0".	PROVIDE 33'-0" POLES WITH AN 8'-0" MAST ARM ON PARAPET WALL FOUNDATIONS. SUPPLY A 90 MPH RATED POLE AT 200% OF THE RATED EPA OF THE FIXTURE AND MAST ARM PROVIDED.  SPECIFIED FIXTURE EPA RATING EQUALS 0.72 SQ. FT. EACH.  PROVIDE 35'-0" POLE WITH AN 8'-0" MAST ARM ON AT GRADE FOUNDATIONS.
F2	POLE MOUNTED DECORATIVE HEAD ROADWAY LUMINAIRE, HEAVY GAUGE ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, ANODIZED ALUMINUM TYPE III FULL CUTOFF OPTICS, TEMPERED GLASS LENS, MEDIUM BASE PORCELAIN SOCKET, HPF CWA PULSE START TYPE BALLAST, UL LISTED WET LOCATIONS.	STERNBERG: 1521RLED/ FG/ CAS8/ HS-B/ 3033ARTS/ BCCA/ 6ARCAS7R- MDL03/ 1-GFI-HUC/ 1-BDBA/ BK OR APPROVED EQUAL	LED LIGHT SOURCE, 4500 DEG. K, 96 TOTAL INPUT WATTS	240 (MULTI-VOLT DRIVER)	MOUNTED ON A 35'-0" POLE WITH AN 8'-0" MAST ARM. PROVIDE DOUBLE BANNER ARM (DBA) AND GFCI WEATHERPROOF RECEPTACLE (GFI). FIXTURE MOUNTING HEIGHT 33'-0".	SUPPLY A 90 MPH RATED POLE AT 200% OF THE RATED EPA OF THE FIXTURE AND MAST ARM PROVIDED.  SPECIFIED FIXTURE EPA RATING EQUALS 0.72 SQ. FT. EACH.  PROVIDE 35'-0" POLE WITH AN 8'-0" MAST ARM ON AT GRADE FOUNDATIONS.
F3	OCTAGONAL STYLE DECORATIVE HEAD LUMINAIRE, CAST ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, TYPE V OPTICS, FROSTED GLASS LENS, HPF ELECTRONIC LED DRIVERS WITH THD LESS THAN 20%, INTEGRAL SURGE PROTECTOR, UL LISTED WET LOCATIONS, IP65 RATED, 3-INCH SLIPFITTER MOUNT.	STERNBERG: MS80SLED/ FS-PY/ 1R94D4S1-M/ FG/ BK OR APPROVED EQUAL	LED LIGHT SOURCE, 4500 DEG. K, 34 TOTAL INPUT WATTS	240 (MULTI-VOLT DRIVER)	MOUNT LIGHT FIXTURE SLIPFITTER ON TOP OF POLE/PIPE FURNISHED WITH PRECAST BOLLARD.	

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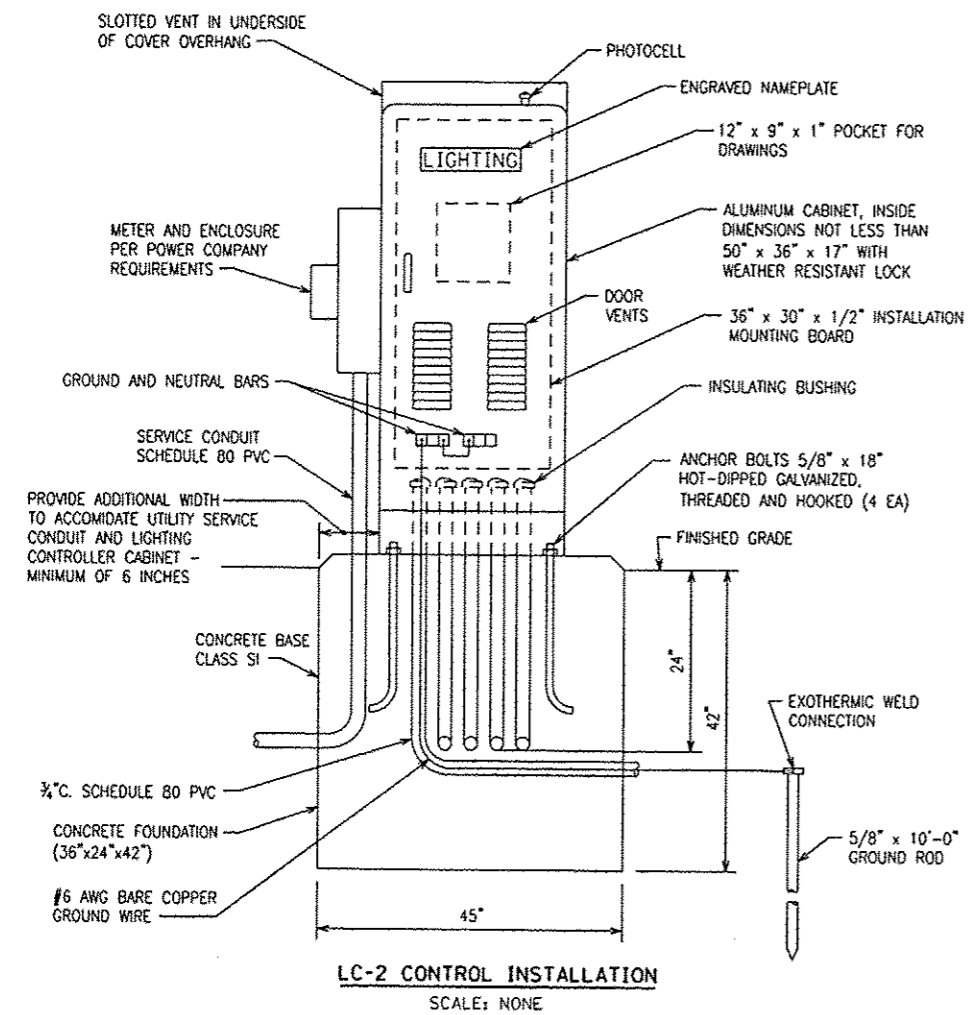
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

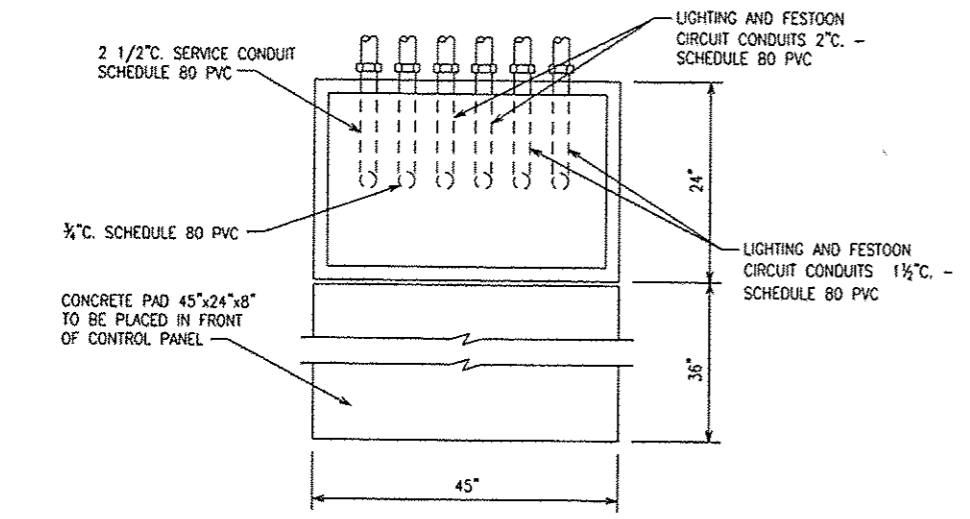
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			6800				
			6801				
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				







**LC-2 CONTROL INSTALLATION**  
 SCALE: NONE



**LC-2 FOUNDATION (TOP VIEW)**  
 SCALE: NONE

**MATERIALS**

- A PHOTOCELL < HIGHWAY LIGHTING/FESTOON CIRCUIT
- B<sub>1</sub> > 3 POSITION SELECTOR SWITCH - HAND/OFF/AUTO
- B<sub>2</sub> >
- C,D 100 AMP ELECTRICALLY HELD CONTACTORS
- E 15 AMP, 1 POLE CIRCUIT BREAKER
- F 100 AMP, 2 POLE MAIN CIRCUIT BREAKER
- G 100 AMP, 2 POLE MAIN CIRCUIT BREAKER
- H 20 AMP, 2 POLE BRANCH CIRCUIT BREAKERS FOR LIGHTING
- I SURGE ARRESTER
- J 30 AMP, 1 POLE CIRCUIT BREAKERS FOR FESTOON RECEPTACLES
- K GFCI DUPLEX RECEPTACLE WITH BOX
- L INCANDESCENT LUMINAIRE, ENCLOSED AND GASKETED WITH 100 WATT LAMP AND BOX
- M SINGLE POLE, 15 AMP, LIGHT SWITCH WITH BOX

**CONTROLLER CABINET**

RATING - THE ENCLOSURE SHALL MEET OR EXCEED THE REQUIREMENTS OF A NEMA 3R AND SHALL BE U.L. LISTED.

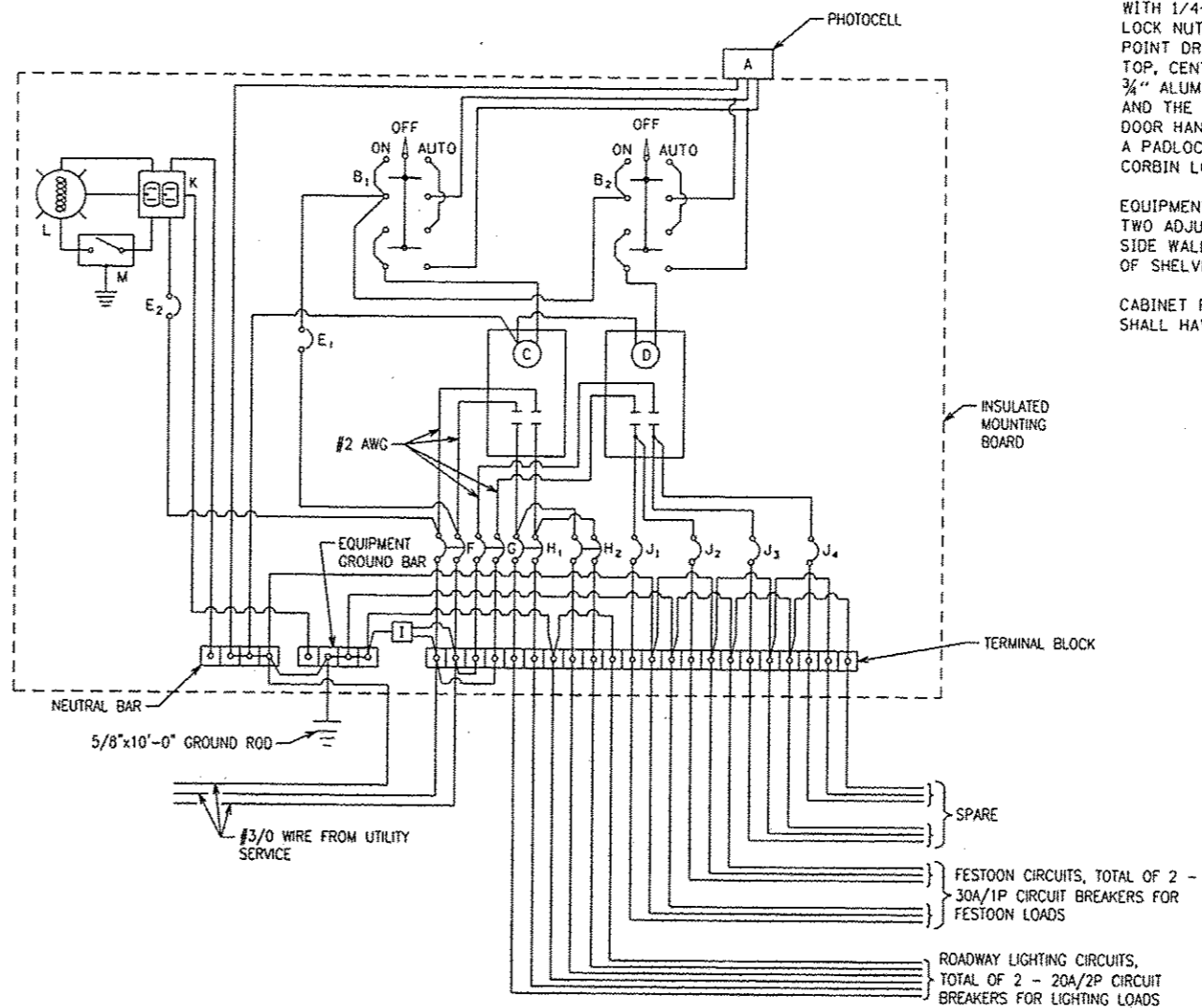
MATERIAL - CABINET AND DOOR SHALL BE CONSTRUCTED FROM 5052 H32 SHEET ALUMINUM ALLOY WITH A THICKNESS OF 0.125". ALL WELDS SHALL BE HELIARC AND SHALL BE NEATLY FORMED AND FREE OF CRACKS, BLOW HOLES, AND OTHER DEFECTS.

CABINET FEATURES - TOP SLOPES 1/2" TO THE REAR, WITH 1/8" x 1" VENT SLOTS UNDER FRONT OVERHANG.

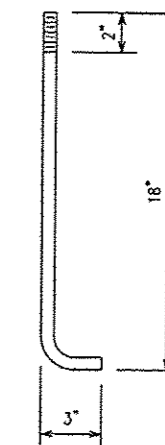
DOOR AND HARDWARE - THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE FRONT OF THE CABINET AND HAVE A CELLULAR NEOPRENE GASKET WHICH IS WEATHER TIGHT. THE DOOR SHALL BE EQUIPPED WITH A TWO POSITION DOOR STOP, ONE AT 90 DEGREES AND ONE AT 120 DEGREES. HINGE SHALL BE 2" OPEN AND CONTINUOUS 14 GAUGE STAINLESS STEEL WITH A 1/4" DIA. PIN AND CAPPED AT THE TOP TO RENDER IT TAMPER PROOF. THE HINGE SHALL BE SECURED WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND ESNA LOCK NUTS. THE LATCHING MECHANISM SHALL BE A THREE POINT DRAW ROLLER TYPE WHICH SECURES THE DOOR AT THE TOP, CENTER, AND BOTTOM. LOCKING RODS SHALL BE 1/4" x 3/4" ALUMINUM TURNED EDGEWISE WITH 1" NYLON ROLLERS AND THE CENTER CATCH SHALL BE STAINLESS STEEL. THE DOOR HANDLE SHALL BE 3/4" DIA. STAINLESS STEEL AND HAVE A PADLOCK HASP. THE DOOR SHALL CONTAIN AN ALL BRASS CORBIN LOCK WITH TWO KEYS.

EQUIPMENT HANDLING - THE CABINET SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED TO EACH SIDE WALL AND THE BACK WALL ALLOWING FULL ADJUSTMENT OF SHELVES OR PANELS.

CABINET FINISH - THE OUTSIDE SURFACE OF THE CABINET SHALL HAVE A SMOOTH, UNIFORM, NATURAL ALUMINUM FINISH.



**120/240V SERVICE WIRING DIAGRAM FOR LC-2**  
 SCALE: NONE



**ANCHOR ROD DETAIL (4 EA)**  
 SCALE: NONE

LAYOUT	
DRAWN	
REVIEWED	

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

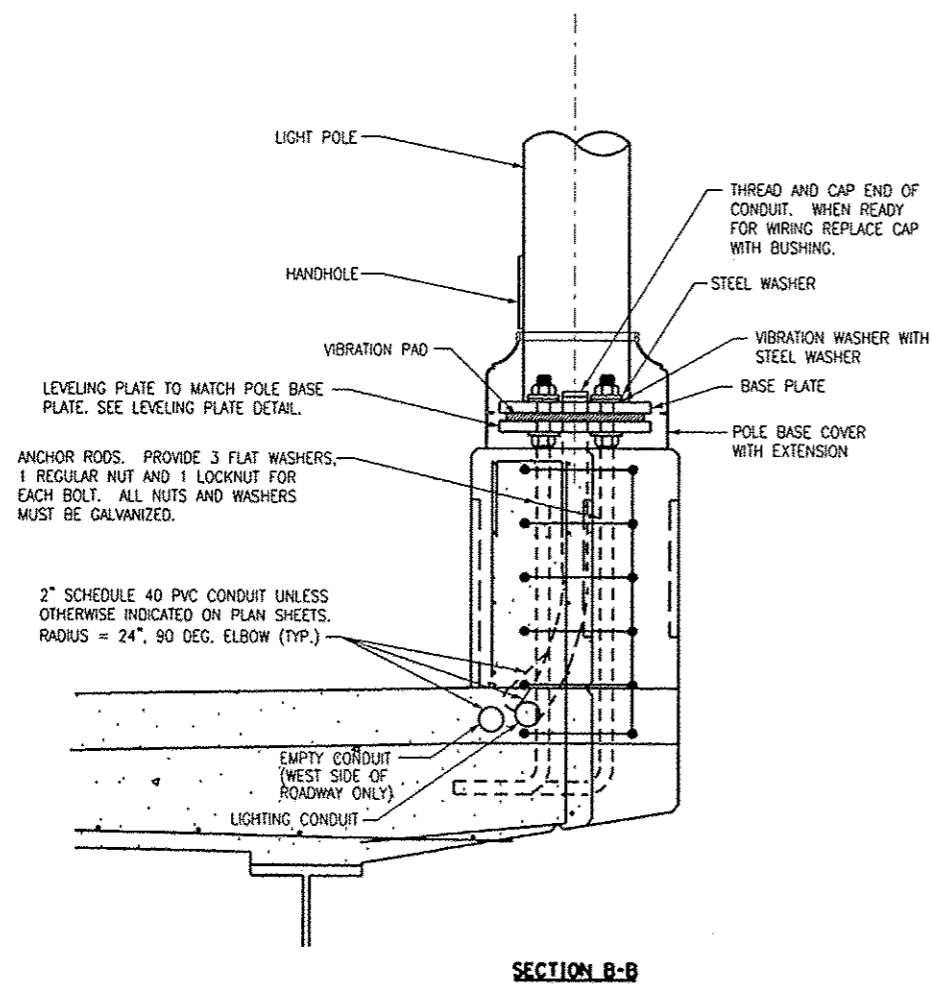
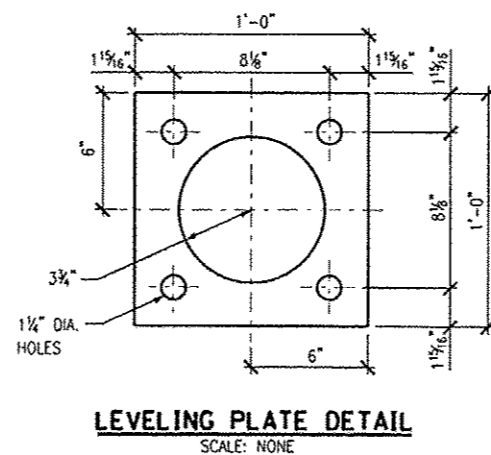
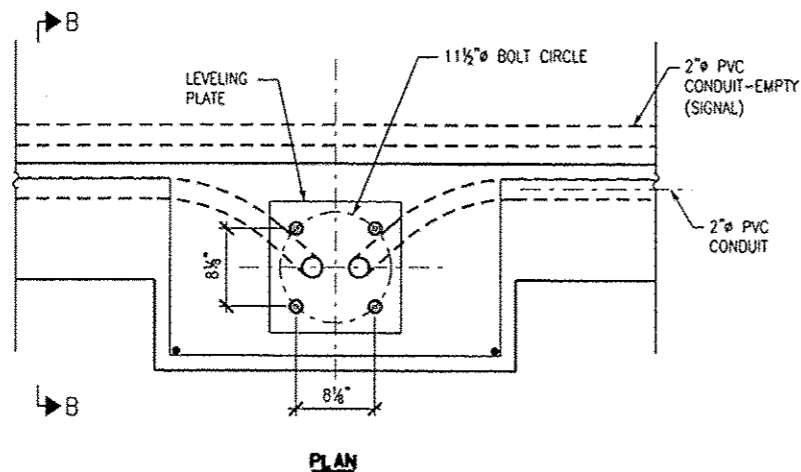
**ROADWAY EXPANSION LC-2 CONTROLLER DETAILS**

SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.
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6801				
CONTRACT NO. 89419				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

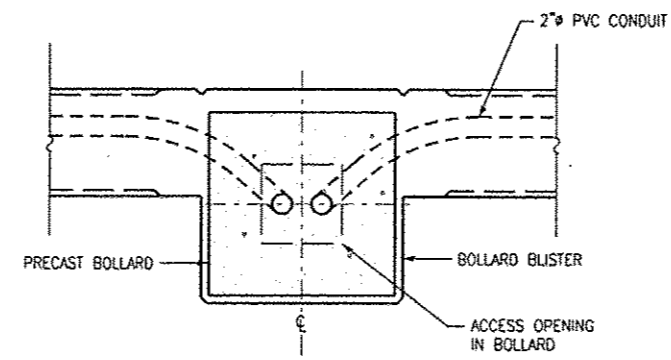
L-5



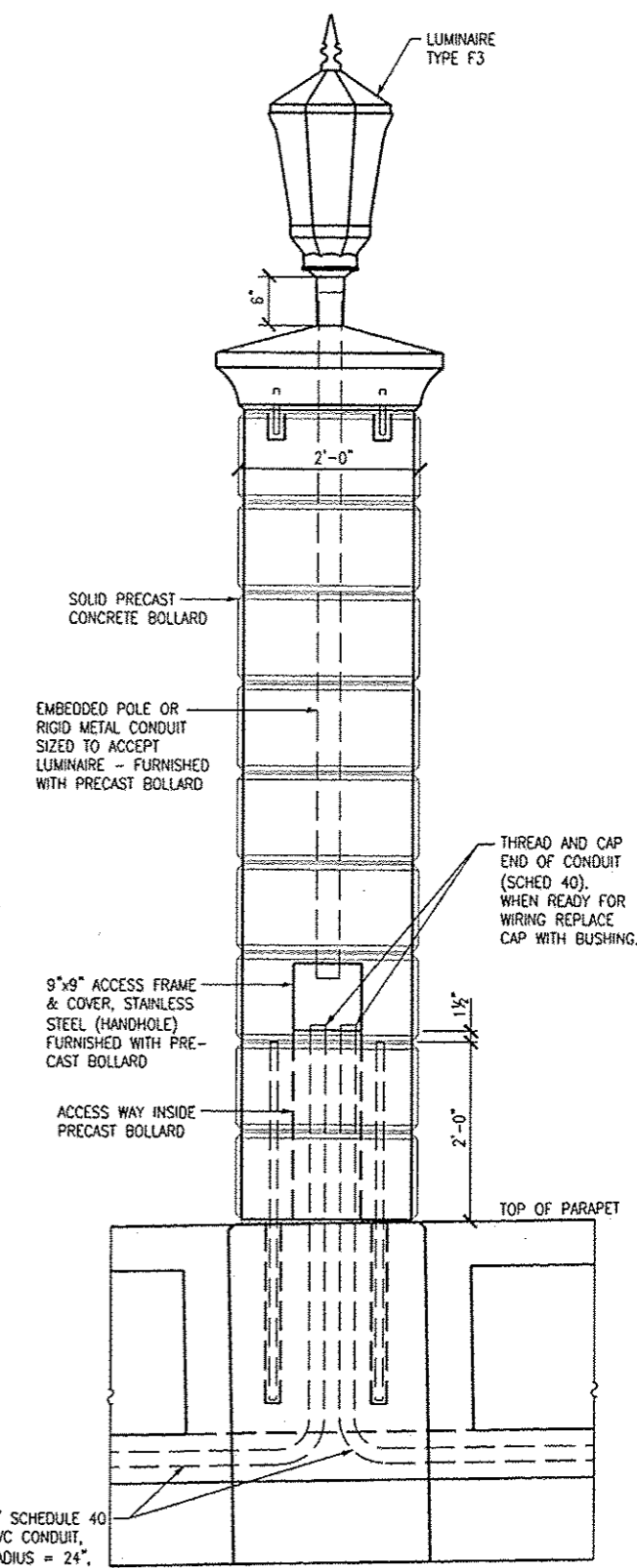


**LIGHT POLE ON PARAPET (BRIDGE/SIDEWALK)**  
 SCALE: NONE

- GENERAL NOTES:**
1. THE COST OF ANCHOR BOLTS AND FOUNDATION ON BRIDGE IS INCLUDED WITH BRIDGE SUPERSTRUCTURE.
  2. ALL JUNCTION BOXES AND PULL BOXES EMBEDDED (CAST) IN THE PARAPET SHALL BE STAINLESS STEEL NEMA 4X (PER ARTICLE 1088.04), SIZE AS SPECIFIED.
  3. THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAM, DECK OR SUPERSTRUCTURE OF THE BRIDGE OR WELD TO THE STRUCTURE UNLESS OTHERWISE SPECIFIED.



**PRECAST BOLLARD PLAN**  
 SCALE: NONE



**PRECAST BOLLARD**  
 SCALE: NONE

DESIGNED	REVIEWED
DRAWN	CHECKED
DATE	DATE

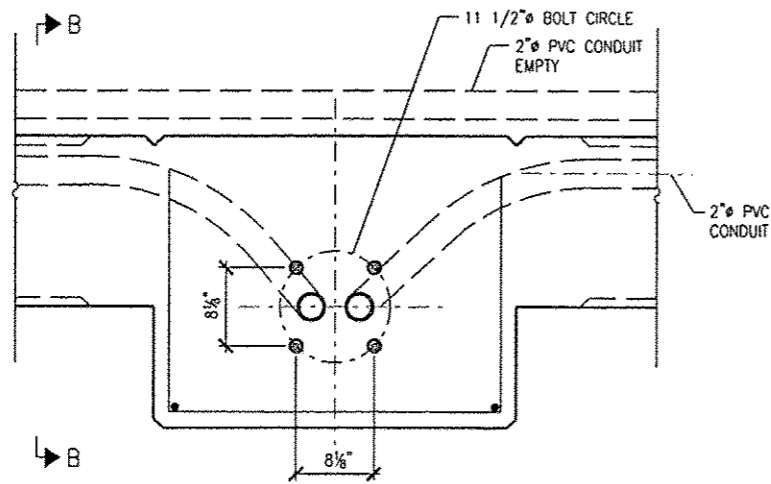
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		- 5/29/13	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

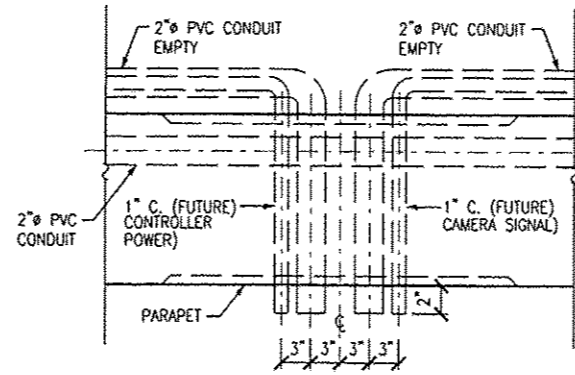
BRIDGE PARAPET/LIGHTING DETAILS

SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	181
6800				
6801				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 89419	

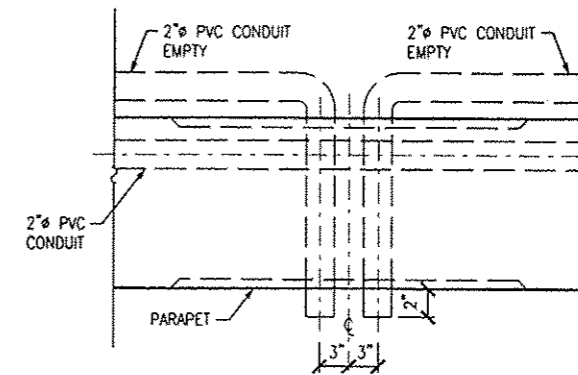


**PLAN**



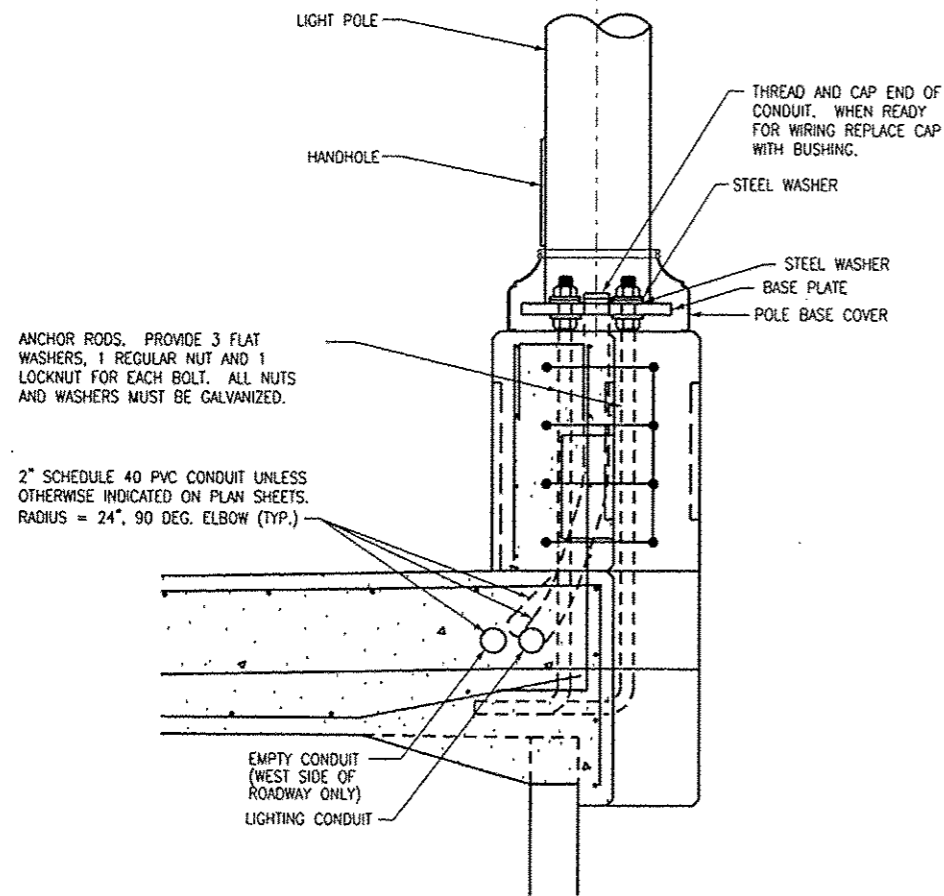
**CONDUIT STUB OUT PLAN AT STA. 112+50**

SCALE: NONE



**CONDUIT STUB OUT PLAN AT STA. 112+37.56, 117+40, & 122+30.7**

SCALE: NONE



**LIGHT POLE ON PARAPET (MSE WALL/SIDEWALK)**

SCALE: NONE

ANCHOR RODS. PROVIDE 3 FLAT WASHERS, 1 REGULAR NUT AND 1 LOCKNUT FOR EACH BOLT. ALL NUTS AND WASHERS MUST BE GALVANIZED.

2" SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE INDICATED ON PLAN SHEETS. RADIUS = 24", 90 DEG. ELBOW (TYP.)

**GENERAL NOTES:**

1. THE COST OF ANCHOR BOLTS AND FOUNDATION ON MSE ANCHORAGE WALL IS INCLUDED WITH MSE ANCHORAGE WALL.
2. ALL JUNCTION BOXES AND PULL BOXES EMBEDDED IN THE PARAPET SHALL BE STAINLESS STEEL NEMA 4X (PER ARTICLE 1088.04), SIZE AS SPECIFIED.
3. CONDUIT SHALL EXIT PARAPET IN LONGITUDINAL STRAIGHT LINE.

LAYOUT	DESIGNED	CHECKED	REVISIONS

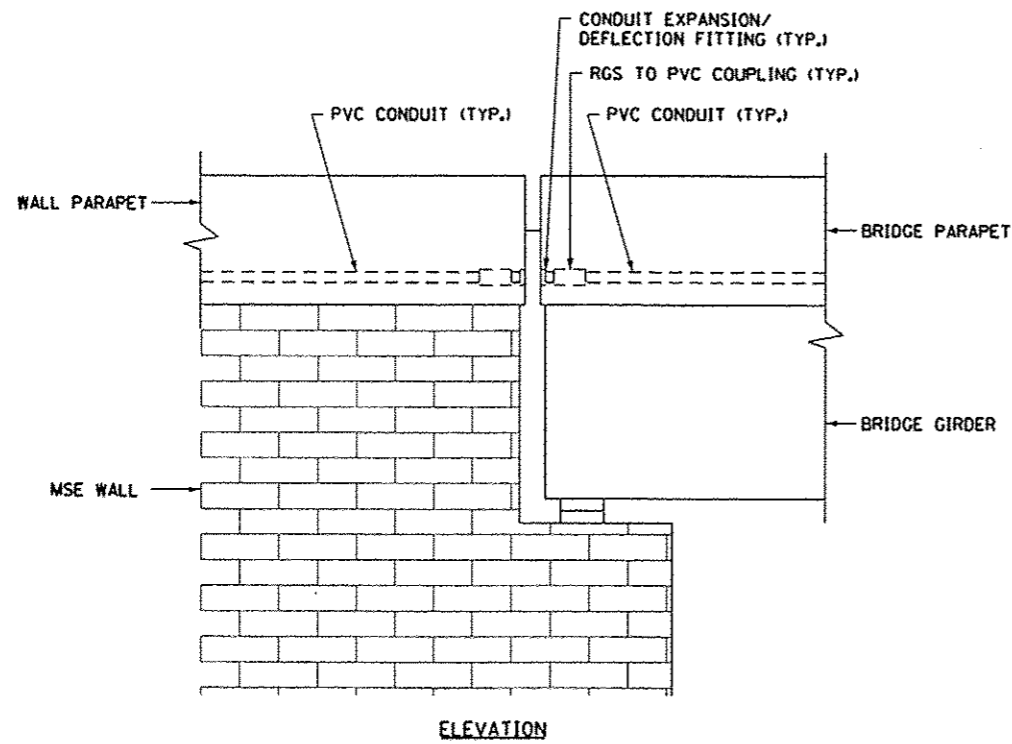
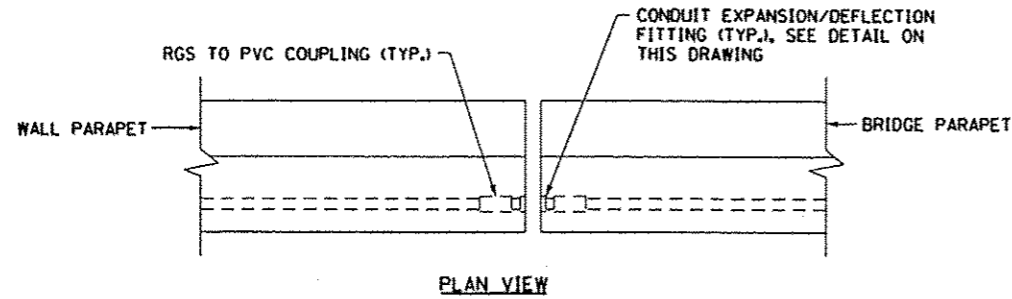
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		5/29/13	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

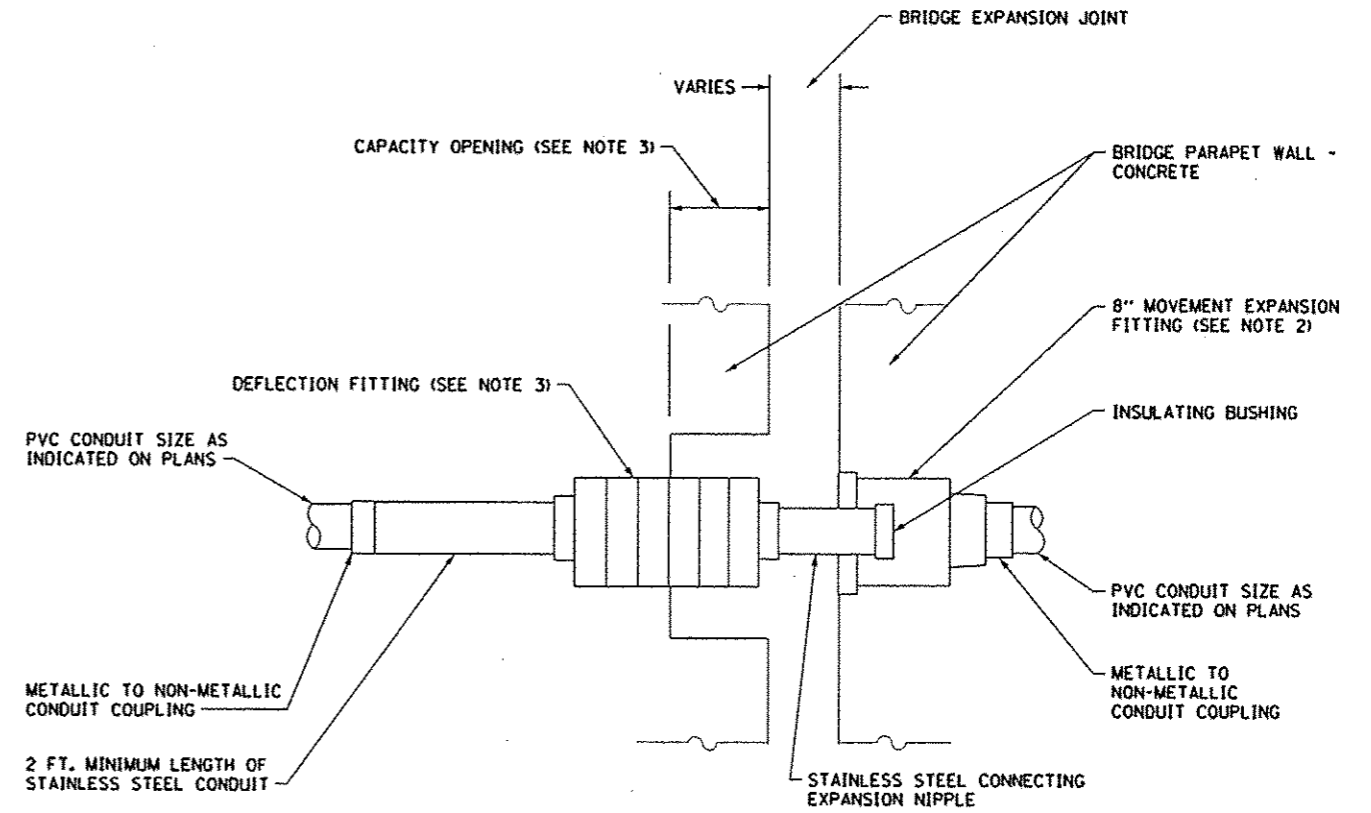
MSE WALL PARAPET/LIGHTING DETAILS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	182
6800				
6801				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 89419	



**CONDUIT TRANSITION TO BRIDGE PARAPET**  
 SCALE: NONE



**CONDUIT EXPANSION/DEFLECTION COUPLING**  
 SCALE: NONE

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL INSTALL A CONDUIT EXPANSION/DEFLECTION COUPLING AT THE JOINTS IN THE CONCRETE PARAPET ON THE BRIDGE CAPABLE OF ACCEPTING THE LONGITUDINAL MOVEMENT. ALL METTALIC PARTS OF THE COUPLING SHALL BE MADE OF STAINLESS STEEL OR AS APPROVED BY THE ENGINEER. ANY NON-STAINLESS METAL SHALL BE HOT DIP GALVANIZED AND COATED TO PREVENT REACTION WITH THE CONCRETE. THE COST OF THE COUPLING SHALL BE PART OF AND INCIDENTAL TO THE CONDUIT SYSTEM.
2. THE BARREL IN THE EXPANSION FITTING SHALL BE FULLY EMBEDDED IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT. ONE HALF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDDED IN THE CONCRETE ON THE OTHER SIDE OF THE COUPLING.
3. A CAVITY OPENING 3" LARGER IN DIAMETER THAN THE DEFLECTION FITTING SHALL BE PROVIDED IN THE CONCRETE TO ENSURE PROPER PERFORMANCE OF THE COUPLING.
4. CAREFUL ATTENTION TO JOINT MOVEMENT OVER A RANGE OF TEMPERATURES SHALL BE COORDINATED WITH THE SELECTION AND INSTALLATION OF THE COUPLING TO ENSURE THE RANGE OF MOVEMENT OF THE COUPLING IS NOT EXCEEDED AT TEMPERATURE EXTREMES.
5. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE CAREFULLY FOLLOWED TO ENSURE OPTIMUM PERFORMANCE OF THE EXPANSION/DEFLECTION COUPLING.
6. THE CONTRACTOR SHALL INSTALL COUPLINGS AT ALL BRIDGE EXPANSION JOINTS AND SHALL BE RESPONSIBLE TO DETERMINE THE PROPER NUMBER OF COUPLINGS REQUIRED.

LAYOUT	
DESIGN	
REVISION	

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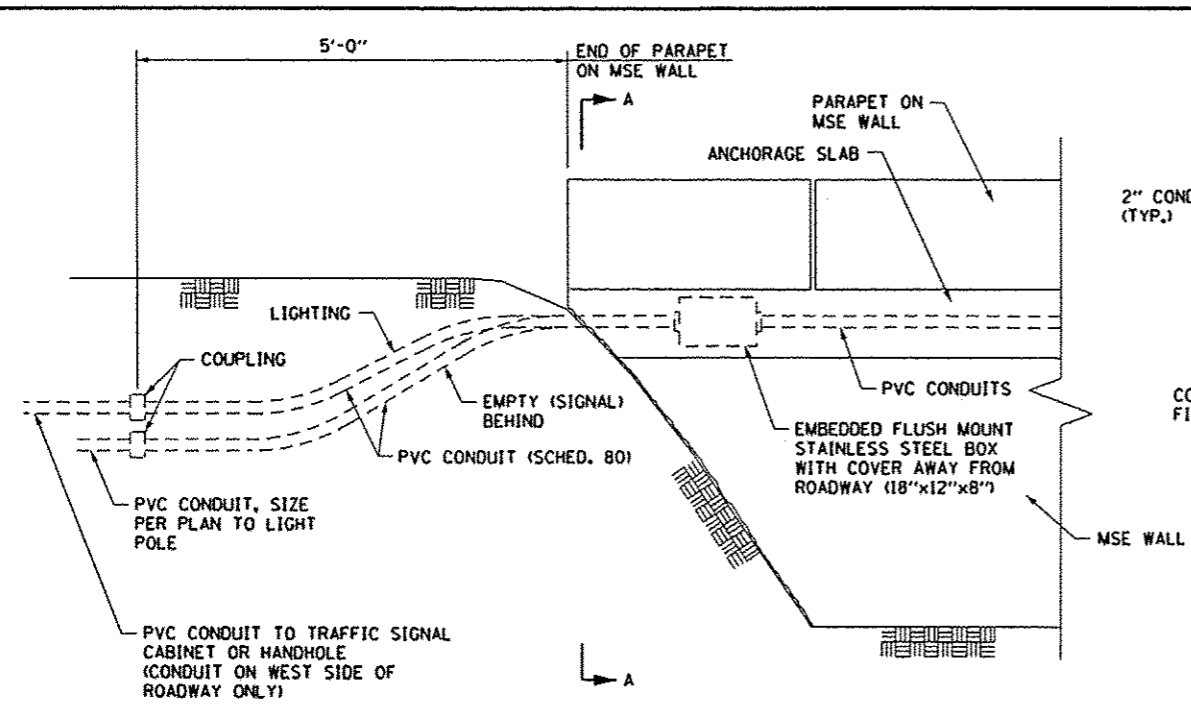
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LIGHTING DETAILS**

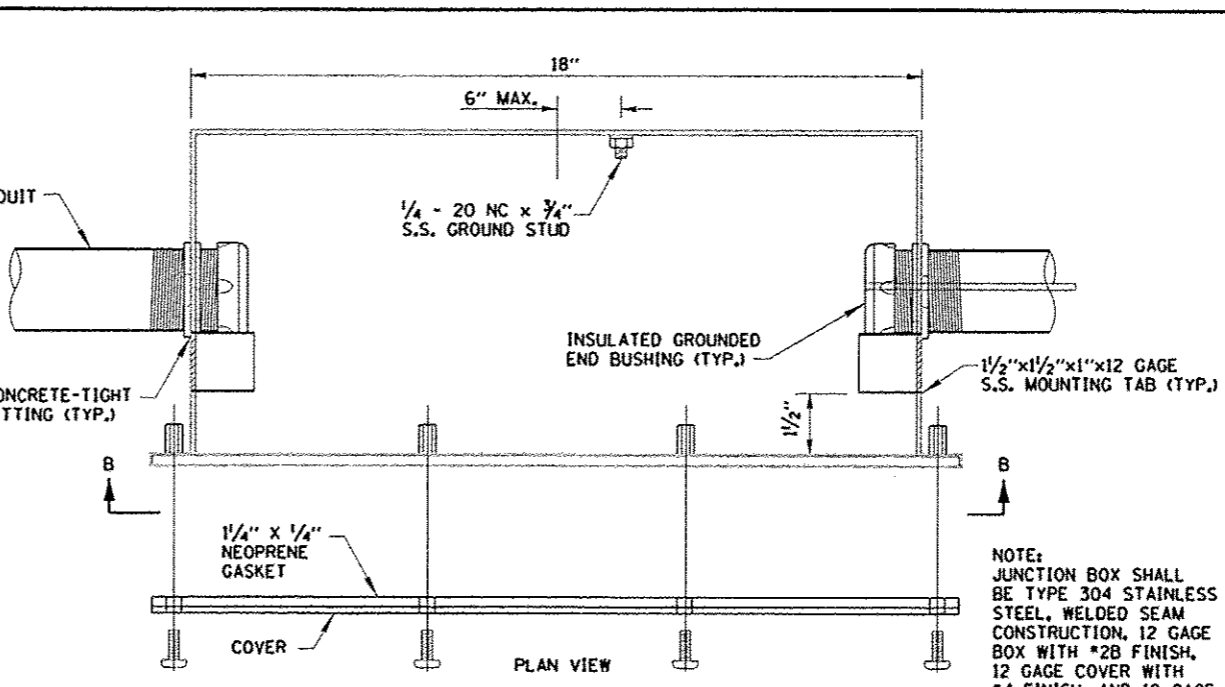
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	CONTRACT NO.89419			
	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			

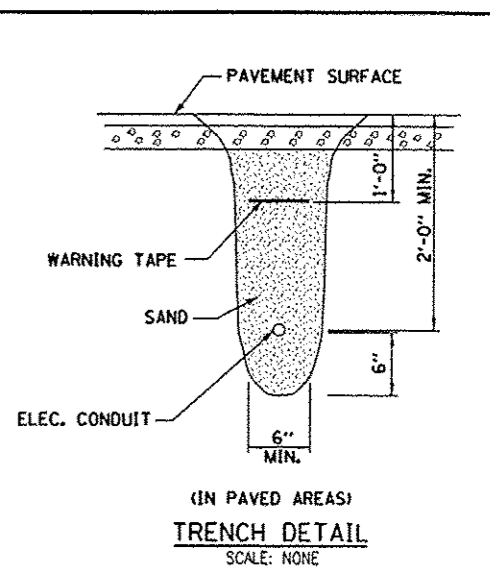
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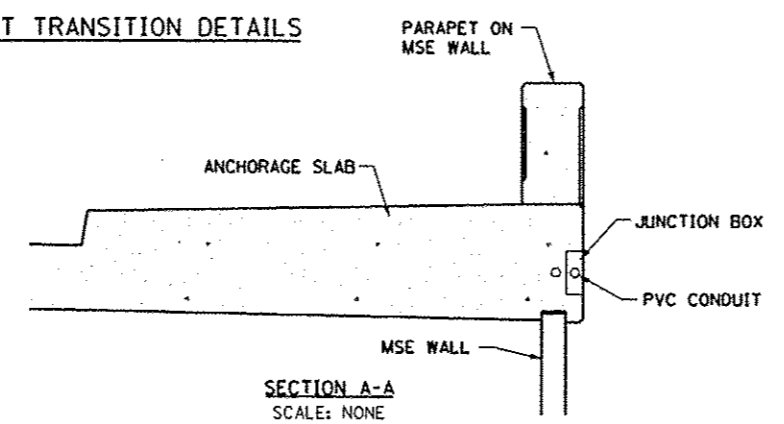
**TYPICAL PARAPET ON MSE WALL TO GROUND CONDUIT TRANSITION DETAILS**  
 SCALE: NONE



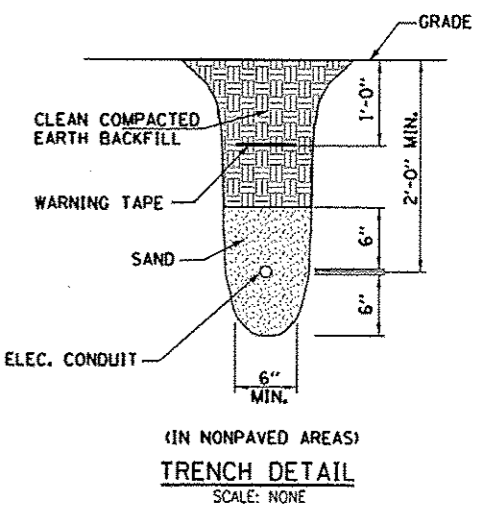
**JUNCTION BOX - FLUSH MOUNT (EMBEDDED)**  
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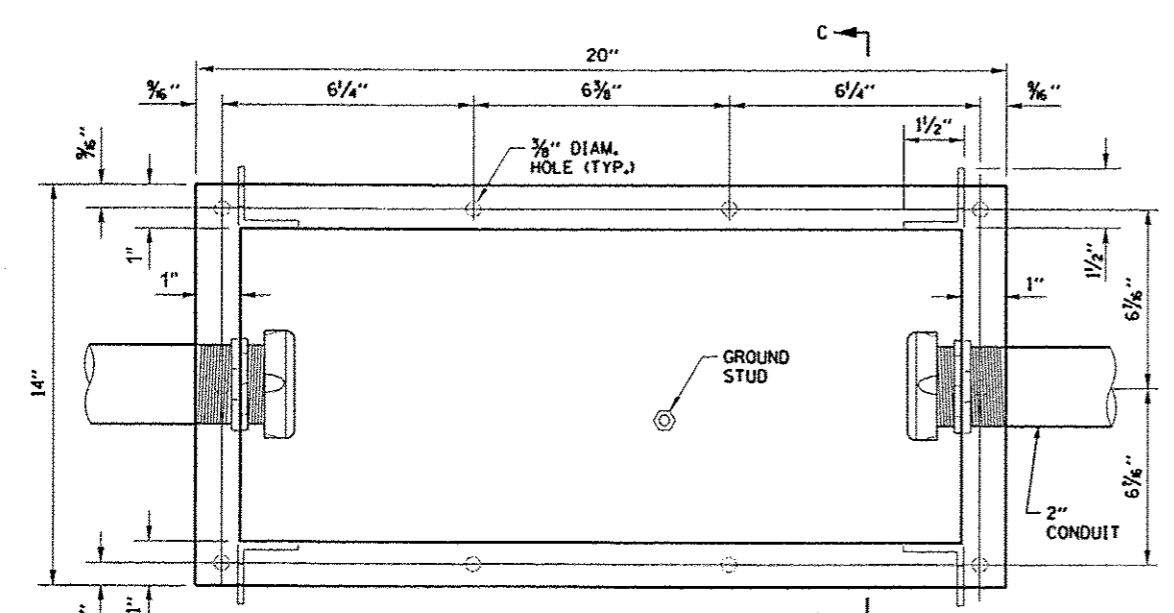
**(IN PAVED AREAS)  
 TRENCH DETAIL**  
 SCALE: NONE



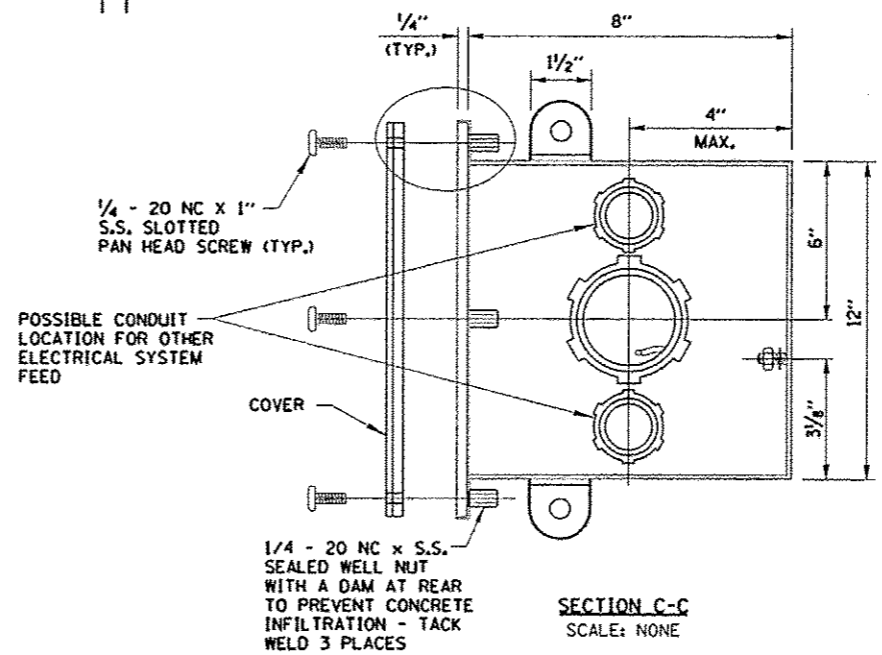
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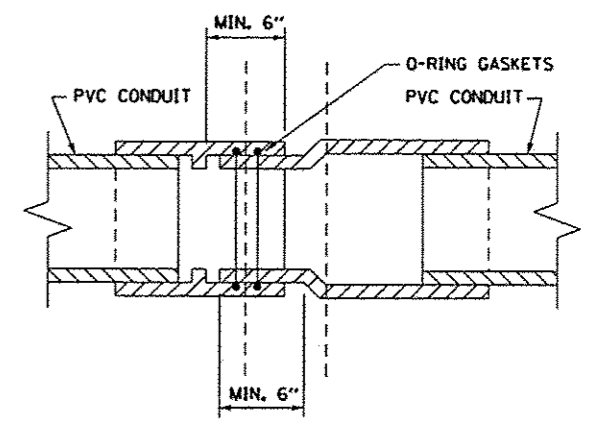
**(IN NONPAVED AREAS)  
 TRENCH DETAIL**  
 SCALE: NONE



**ELEVATION B-B**  
 SCALE: NONE



**SECTION C-C**  
 SCALE: NONE



**EXPANSION JOINT DETAIL**  
 SCALE: NONE

DATE	REVISION

FILE NAME	USER NAME	DESIGNED	REVISED
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		EJM	
		CHECKED	REVISED
		PJT	
		DATE	REVISED
		5/29/13	

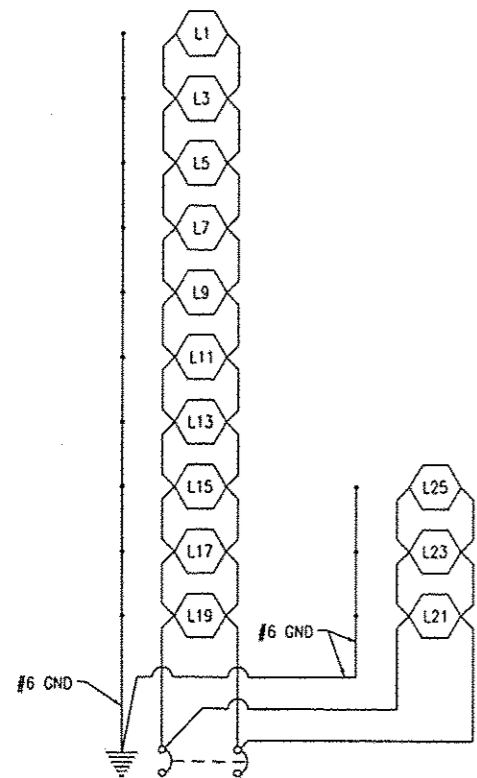
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LIGHTING DETAILS**

SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.
---------------	-----------	----	--------	------	---------

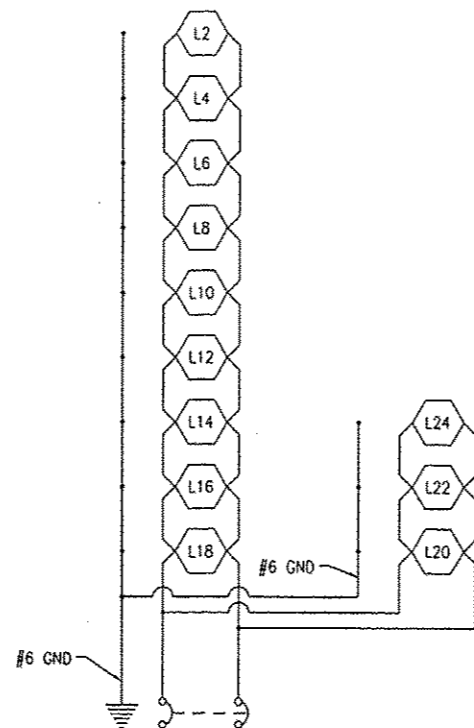
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	184
6800				
6801				
CONTRACT NO. 89419				

L-9



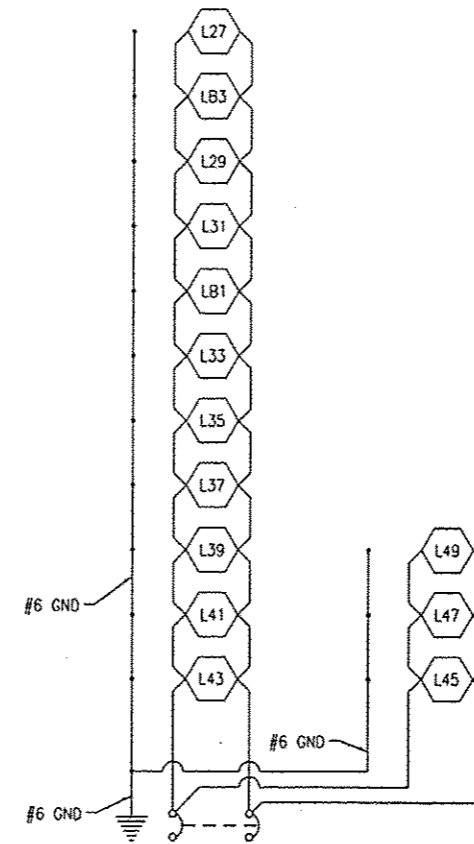
CONTROLLER LC-1-1  
 200 AMP, 240 VOLT, SINGLE PHASE, 904 VA TOTAL LOAD,  
 20A, 2-POLE BREAKER,  
 ALL CONDUCTOR #10 (UNO)

**CIRCUIT DIAGRAM - LIGHTS (WEST)**  
 NOT TO SCALE



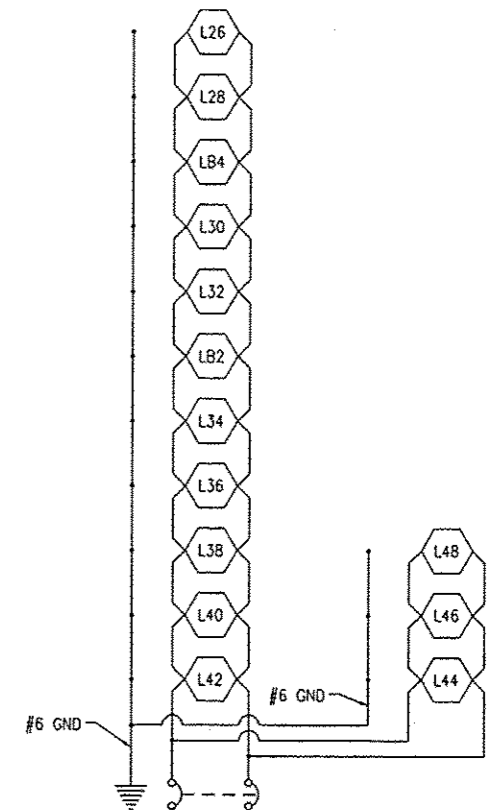
CONTROLLER LC-1-2  
 200 AMP, 240 VOLT, SINGLE PHASE, 851 VA TOTAL LOAD,  
 20A, 2-POLE BREAKER,  
 ALL CONDUCTOR #10 (UNO)

**CIRCUIT DIAGRAM - LIGHTS (EAST)**  
 NOT TO SCALE



CONTROLLER LC-2-1  
 200 AMP, 240 VOLT, SINGLE PHASE, 704 VA TOTAL LOAD,  
 20A, 2-POLE BREAKER,  
 ALL CONDUCTOR #10 (UNO)

**CIRCUIT DIAGRAM - LIGHTS (WEST)**  
 NOT TO SCALE



CONTROLLER LC-2-2  
 200 AMP, 240 VOLT, SINGLE PHASE, 704 VA TOTAL LOAD,  
 20A, 2-POLE BREAKER,  
 ALL CONDUCTOR #10 (UNO)

**CIRCUIT DIAGRAM - LIGHTS (EAST)**  
 NOT TO SCALE

FILED	DATE
DRWN	REVISED

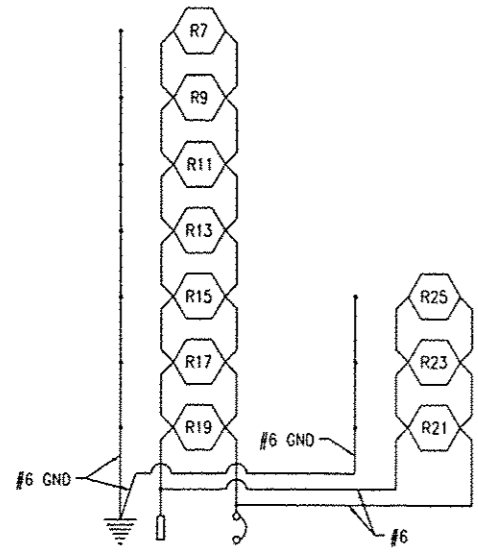
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	PLOT DATE * 05/29/2013	DATE - 5/29/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CIRCUIT DIAGRAMS - LIGHTS**

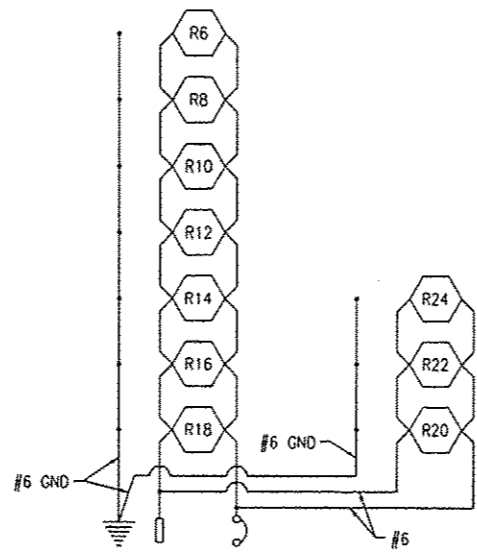
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 679B 6800 6801	SECTION 05-00501-21-G5	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 185
CONTRACT NO. 89419				L-10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



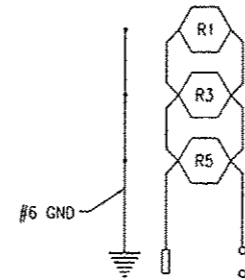
CONTROLLER LC-1-1A  
 200 AMP, 240 VOLT, SINGLE PHASE, 2000 VA TOTAL LOAD,  
 30A, 1-POLE BREAKER,  
 ALL CONDUCTOR #6 (UNO)

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (WEST)  
 NOT TO SCALE



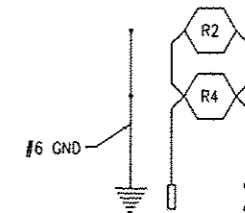
CONTROLLER LC-1-2A  
 200 AMP, 240 VOLT, SINGLE PHASE, 2000 VA TOTAL LOAD,  
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 ALL CONDUCTOR #6 (UNO)

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (EAST)  
 NOT TO SCALE



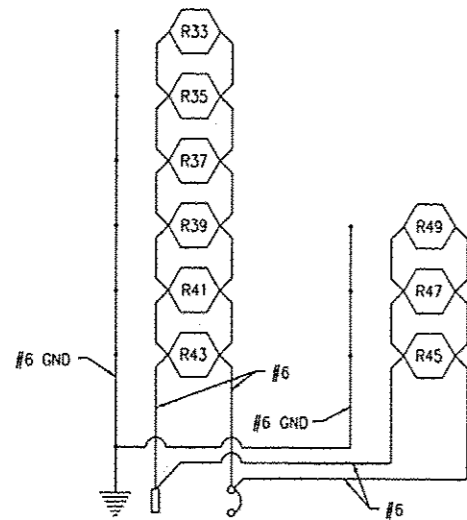
CONTROLLER LC-1-1B  
 200 AMP, 240 VOLT, SINGLE PHASE, 600 VA TOTAL LOAD,  
 30A, 1-POLE BREAKER,  
 ALL CONDUCTOR #6 (UNO)

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (WEST)  
 NOT TO SCALE



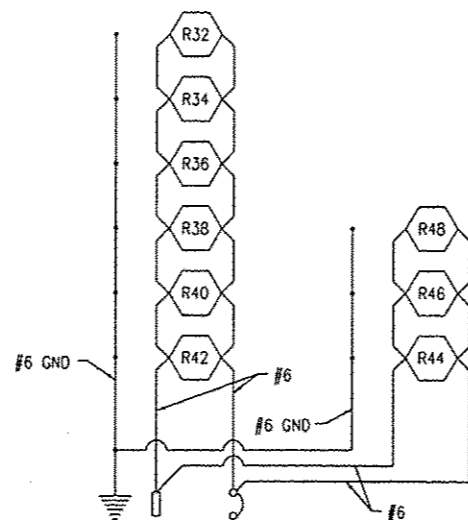
CONTROLLER LC-1-2B  
 200 AMP, 240 VOLT, SINGLE PHASE, 400 VA TOTAL LOAD,  
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 ALL CONDUCTOR #6 (UNO)

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (EAST)  
 NOT TO SCALE



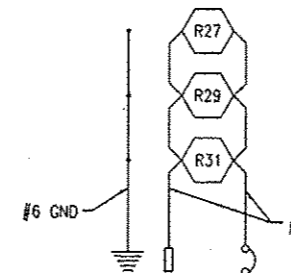
CONTROLLER LC-2-1A  
 200 AMP, 120 VOLT, SINGLE PHASE, 1800 VA TOTAL LOAD,  
 30A, 1-POLE BREAKER

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (WEST)  
 NOT TO SCALE



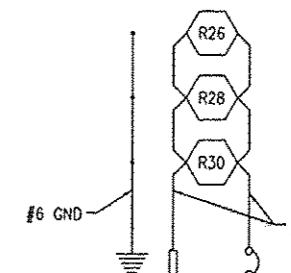
CONTROLLER LC-2-2A  
 200 AMP, 120 VOLT, SINGLE PHASE, 1800 VA TOTAL LOAD,  
 30A, 1-POLE BREAKER

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (EAST)  
 NOT TO SCALE



CONTROLLER LC-2-1B  
 200 AMP, 120 VOLT, SINGLE PHASE, 600 VA TOTAL LOAD,  
 30A, 1-POLE BREAKER

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (WEST)  
 NOT TO SCALE



CONTROLLER LC-2-2B  
 200 AMP, 120 VOLT, SINGLE PHASE, 600 VA TOTAL LOAD,  
 30A, 1-POLE BREAKER

CIRCUIT DIAGRAM -  
FESTOON RECEPTACLES (EAST)  
 NOT TO SCALE

LAYOUT	
DRAWN	
REVISIONS	

FILE NAME -	USER NAME - dms08878	DESIGNED - PJT	REVISED -
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	PLOT DATE = 05/29/2013	DATE - 5/29/13	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

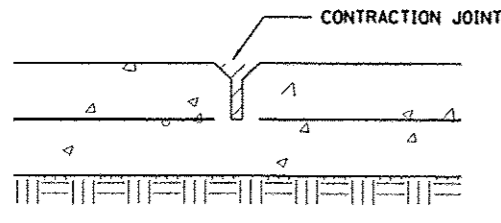
<b>CIRCUIT DIAGRAMS - FESTOON RECEPTACLES</b>			
SCALE: N.T.S.	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6795 6800 6801	05-00501-21-GS	KNOX	269	186
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 89419	

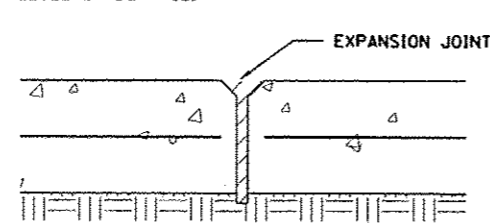


1/2" x 1-1/2" JOINT SHALL BE TOOLED AND SAWED TO A DEPTH OF 1-1/2" AND A BEAD OF ONE PART SELF LEVELING URETHANE SEALANT INSTALLED TO LEVEL OF SURFACE.

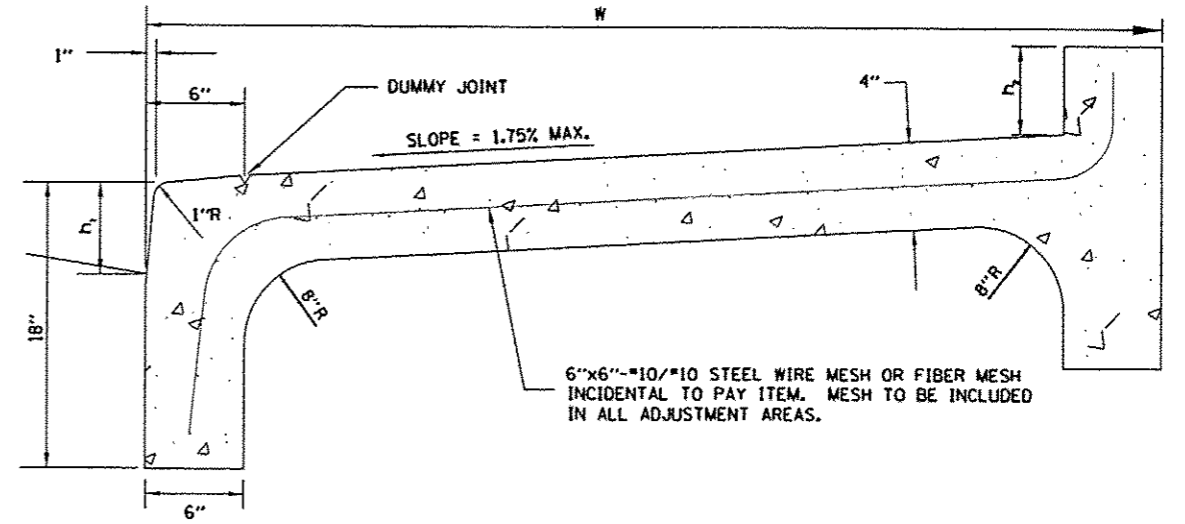
1/2" THICK PREFORMED JOINT FILLER SHALL BE INSTALLED 1/2" BELOW SURFACE OF SIDE WALK AND A BEAD OF ONE PART SELF LEVELING URETHANE SEALANT INSTALLED TO LEVEL OF SURFACE.



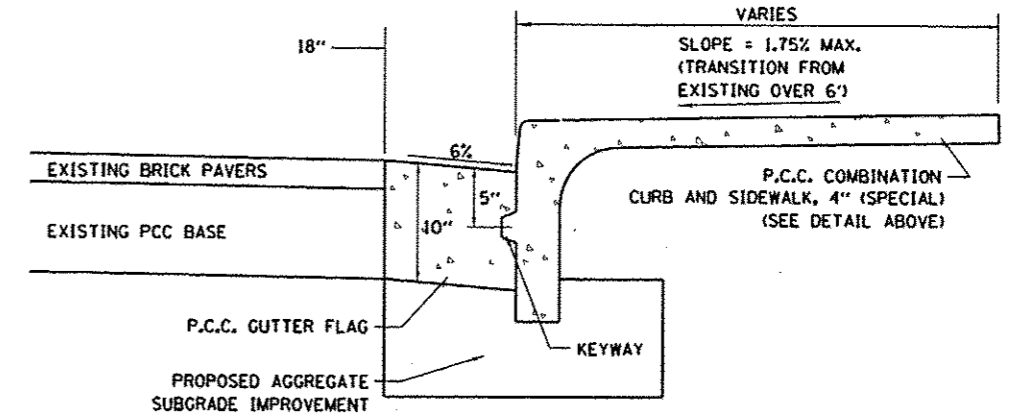
SECTION A-A  
CONTRACTION JOINT



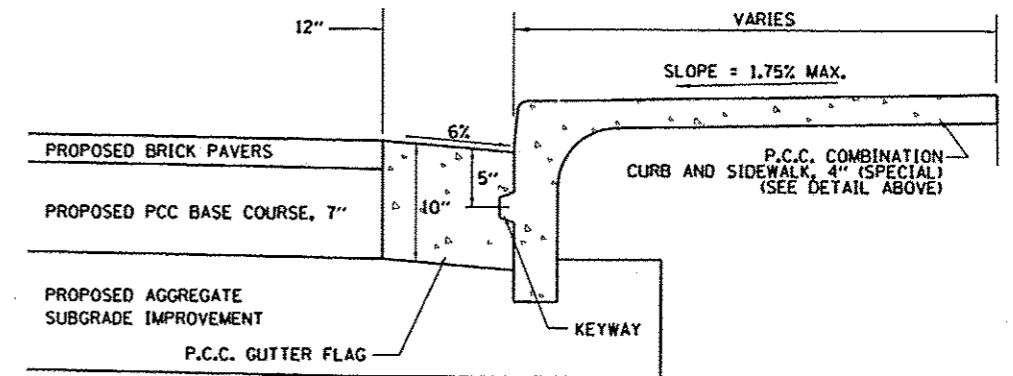
SECTION B-B  
EXPANSION JOINT



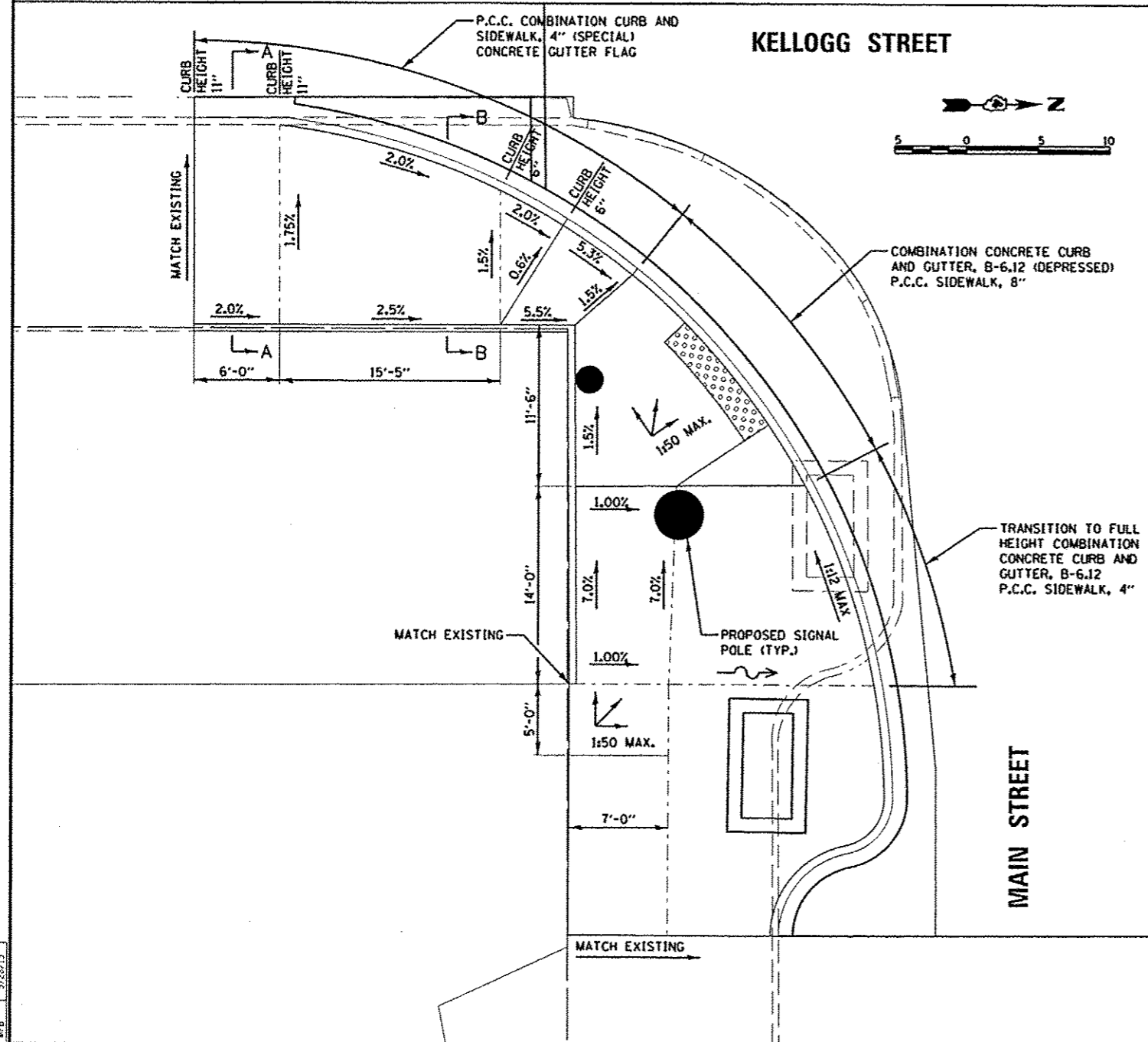
P.C.C. COMBINATION CURB AND SIDEWALK, 4" (SPECIAL)



P.C.C. GUTTER FLAG - SECTION A-A  
ADJACENT TO EXISTING PAVEMENT



P.C.C. GUTTER FLAG - SECTION B-B  
ADJACENT TO PROPOSED PAVEMENT



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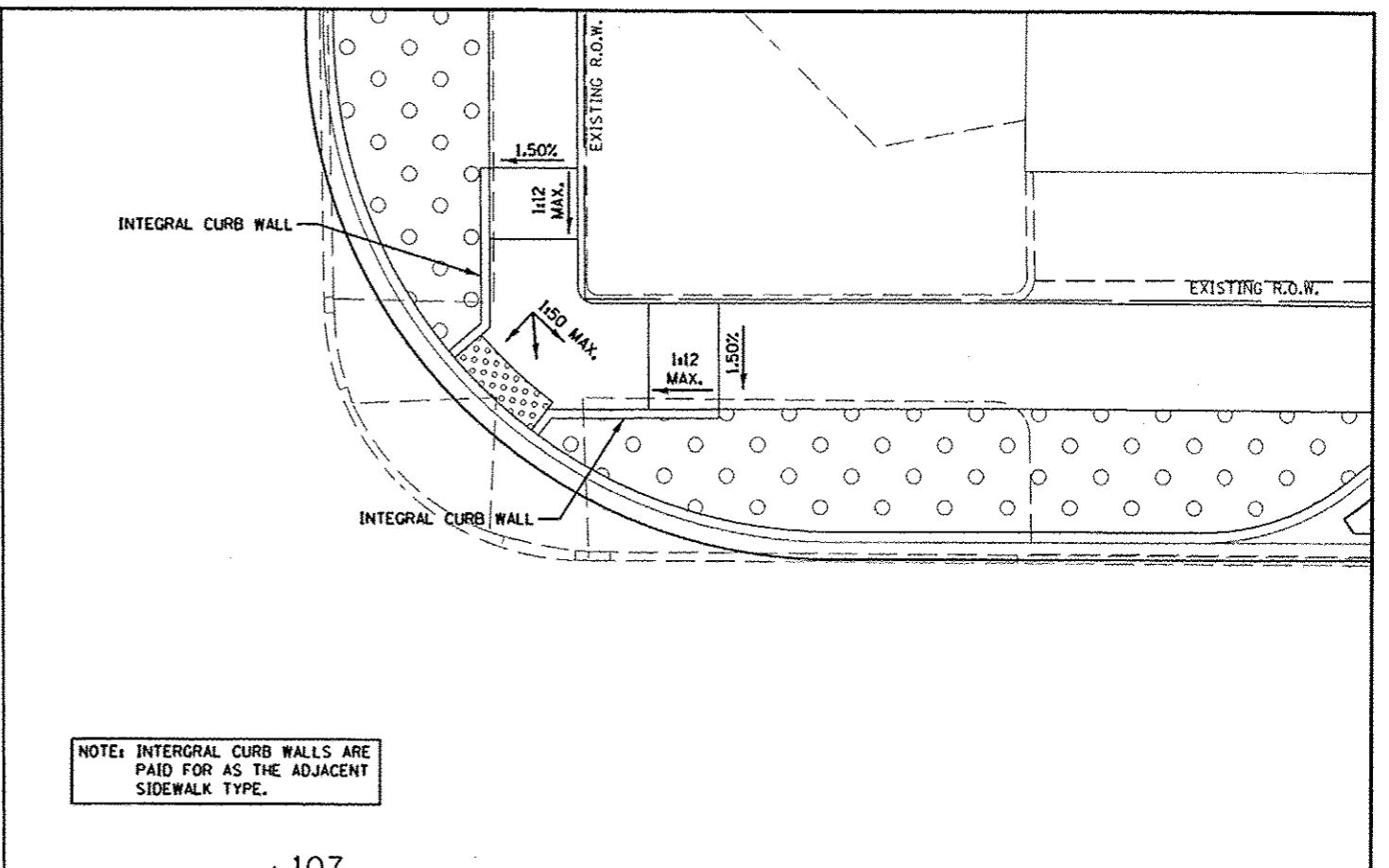
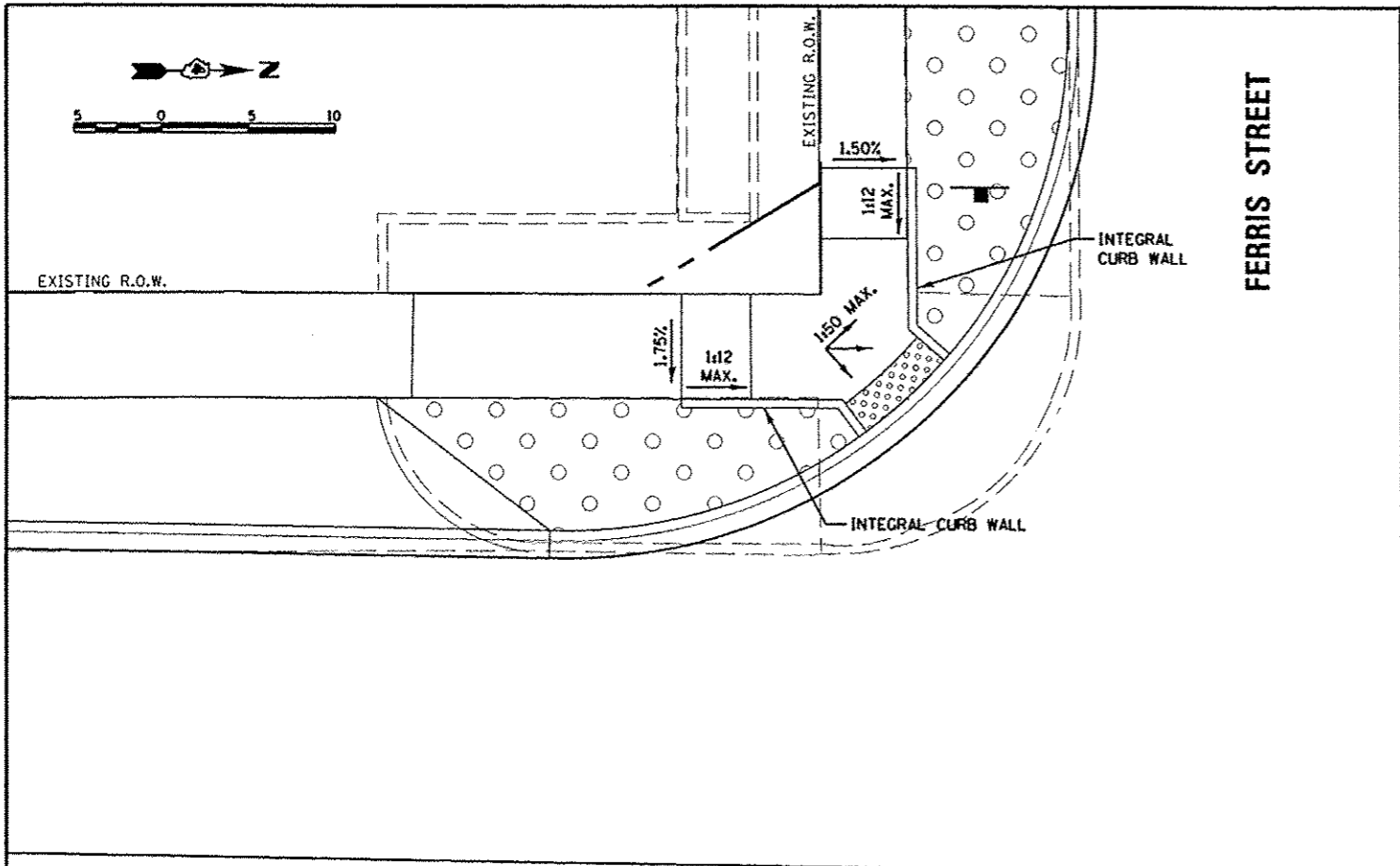
LAYOUT	RLA	5/27/12
DRAWN	MGD	5/28/13
REVIEWED	MPB	5/28/13

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		DATE	5/29/13
		REVISED	-

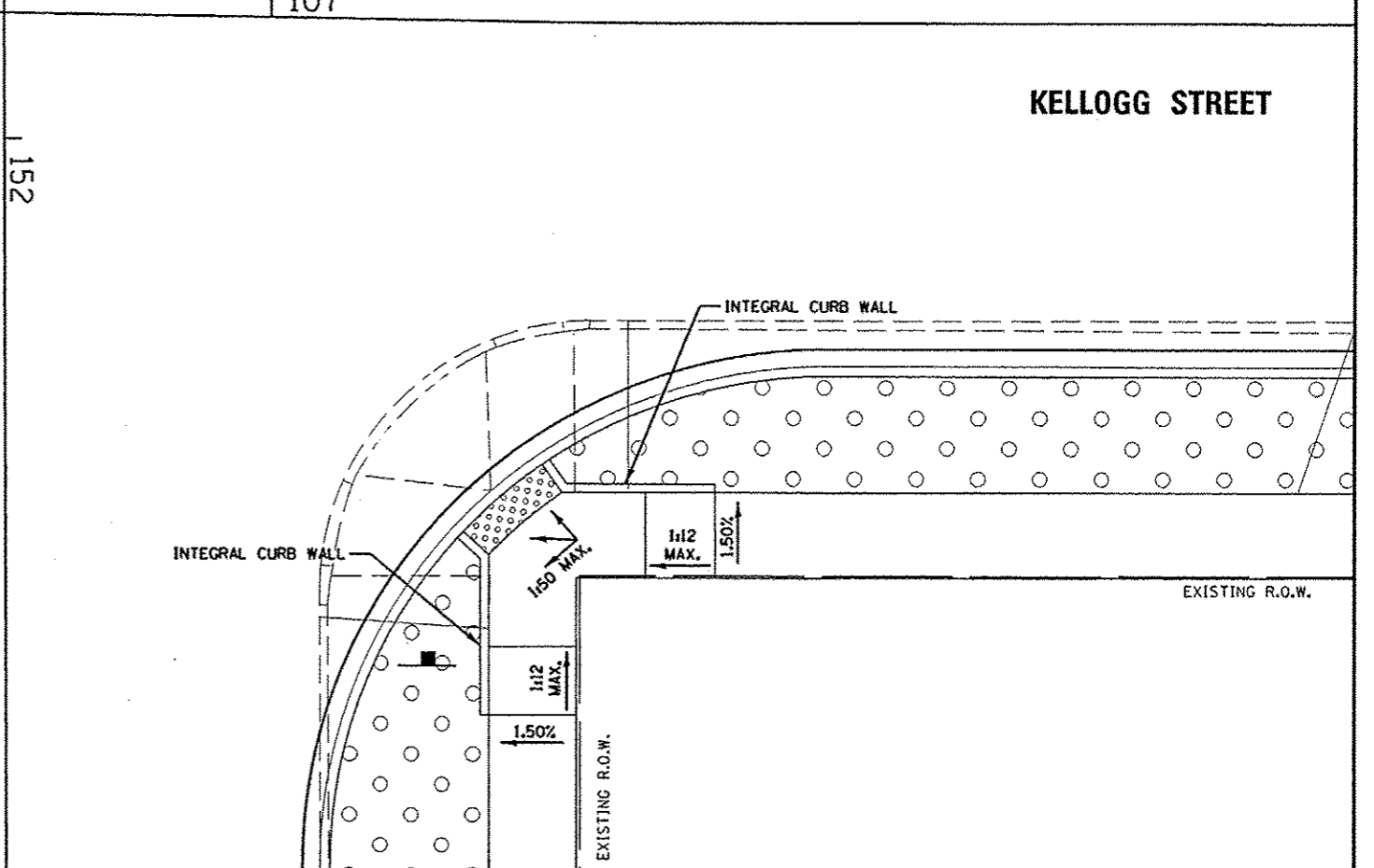
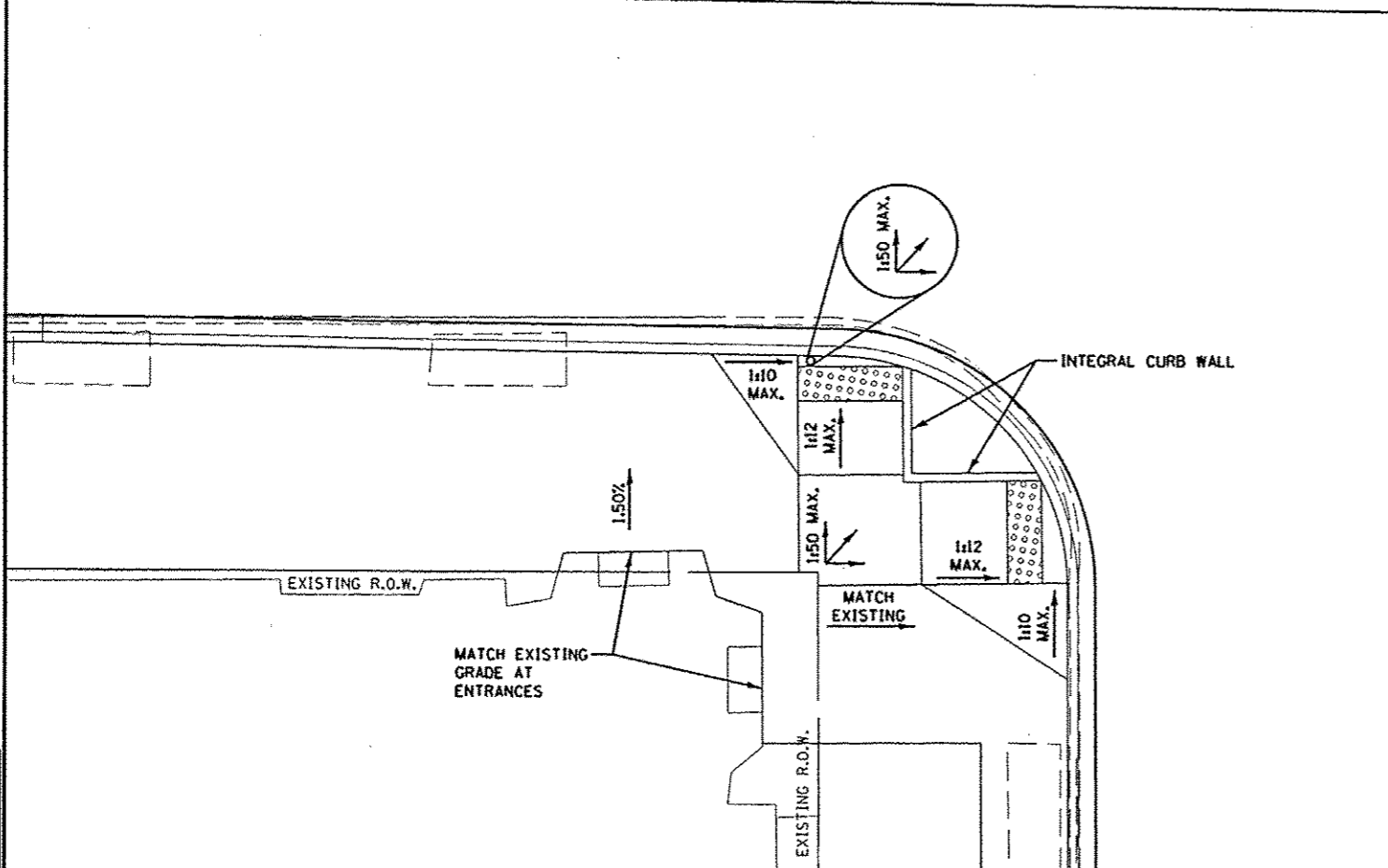
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>KELLOGG STREET AND MAIN STREET</b> <b>SOUTH EAST RAMP DETAIL</b>		F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1"=5'		6799	05-00501-21-CS	KNOX	269	188
SHEET NO. OF SHEETS		6800	FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT		CONTRACT NO.89419	
STA. TO STA.		6801				





NOTE: INTEGRAL CURB WALLS ARE PAID FOR AS THE ADJACENT SIDEWALK TYPE.



DESIGNED	RLA	5/21/12
DRAWN	MCD	5/23/13
CHECKED	MPB	5/23/13

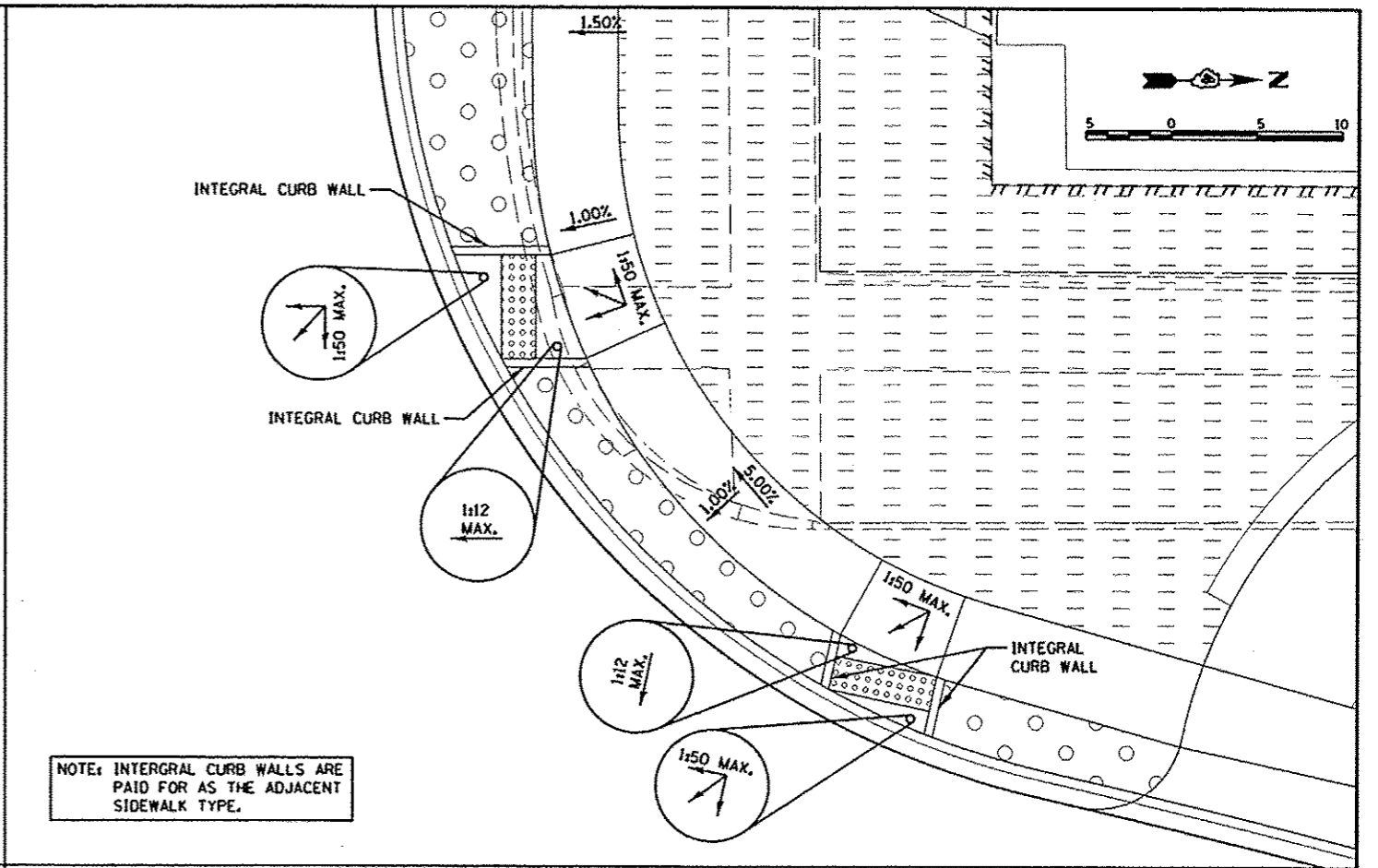
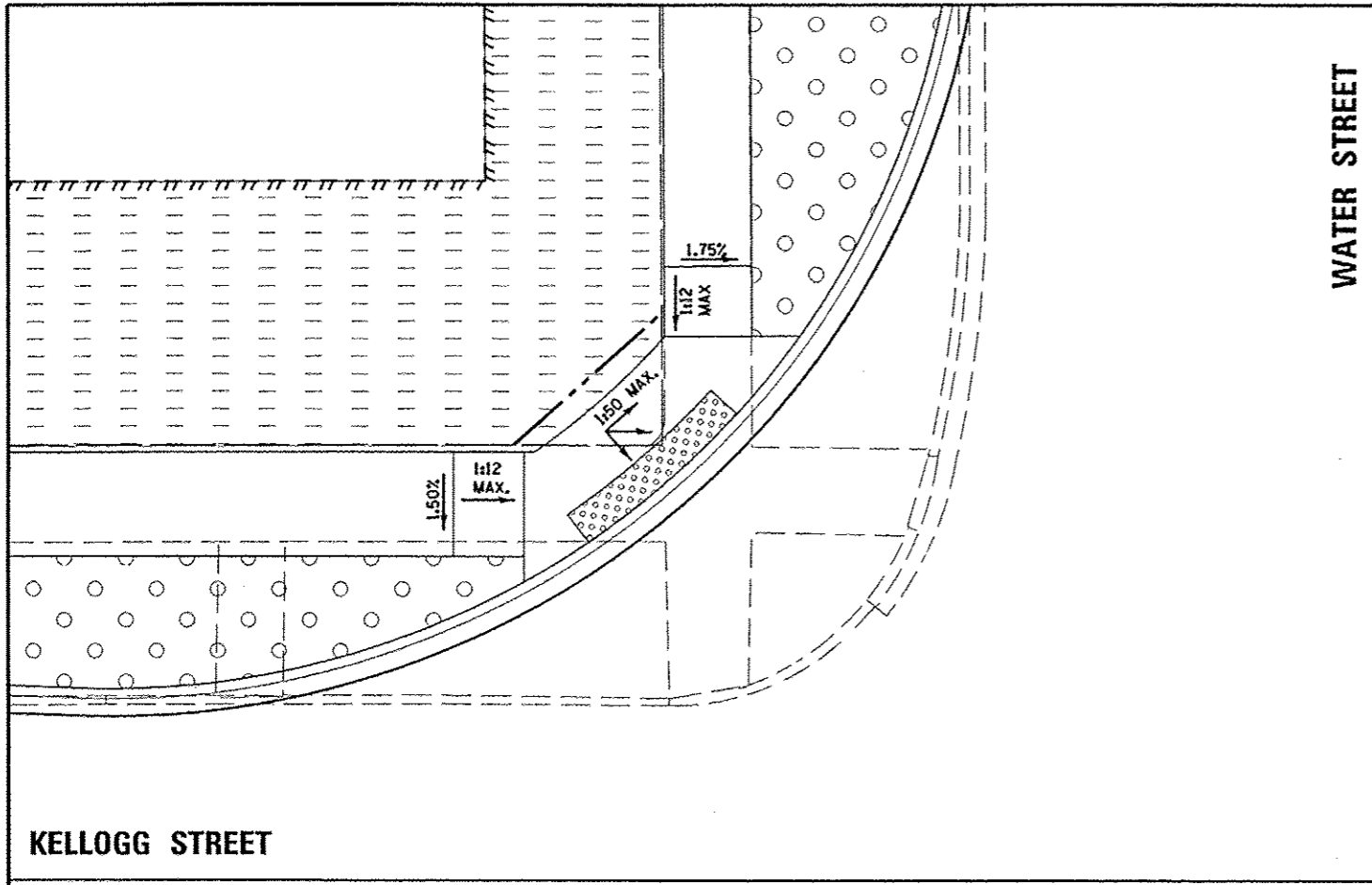
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

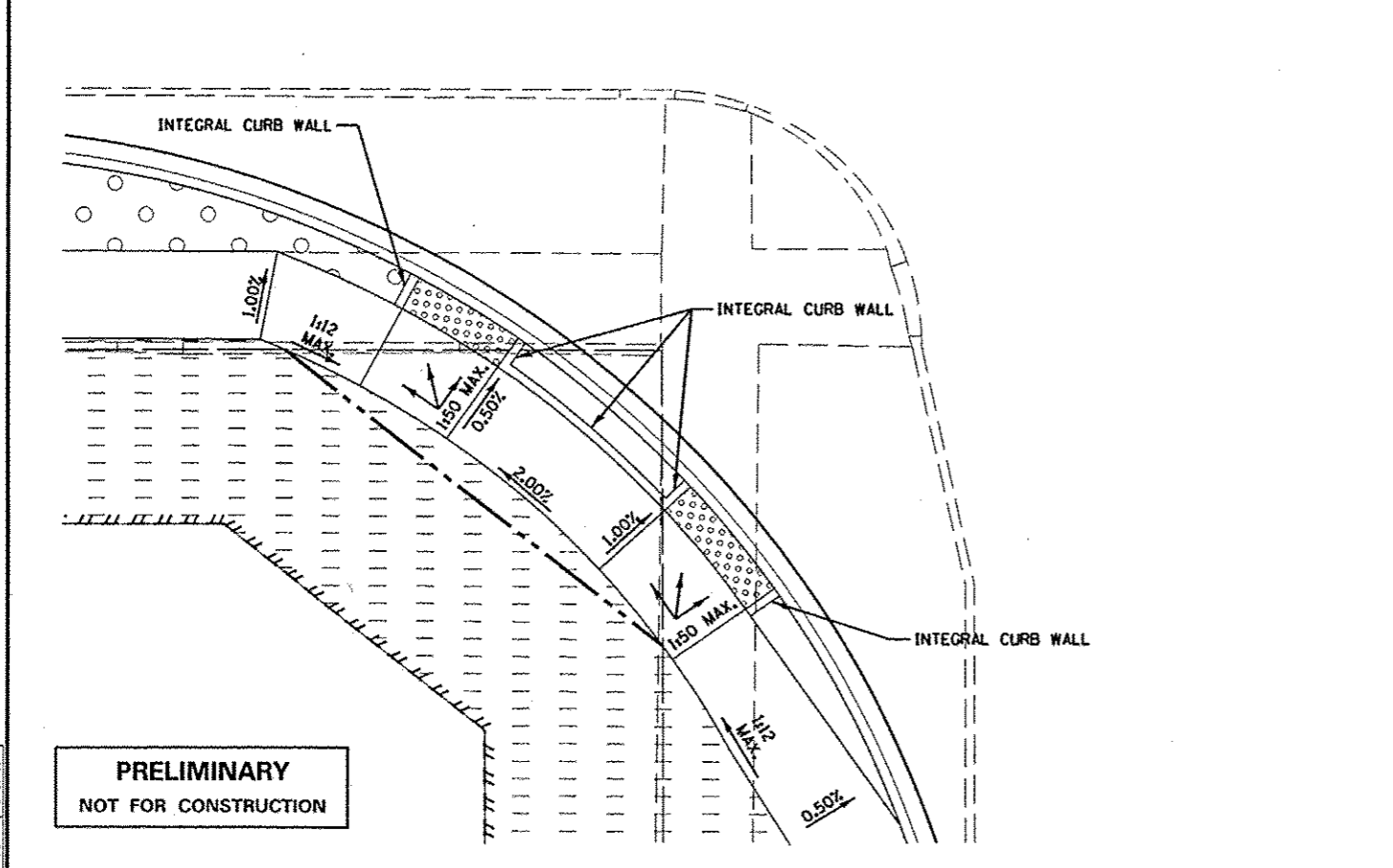
KELLOGG STREET AND FERRIS STREET  
 SIDEWALK RAMP DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	189
6803				
6801				
CONTRACT NO. 89419				

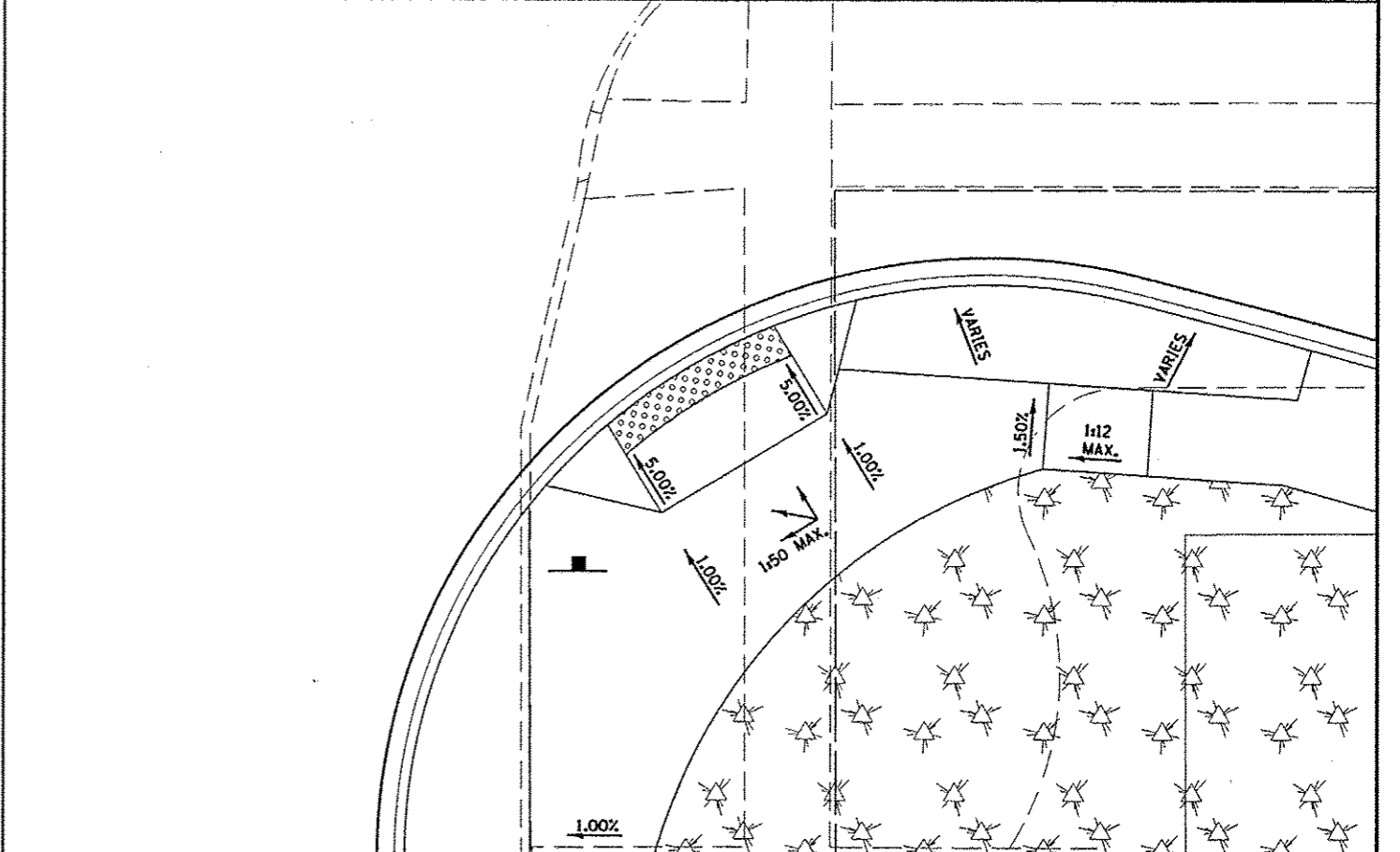
SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



NOTE: INTEGRAL CURB WALLS ARE PAID FOR AS THE ADJACENT SIDEWALK TYPE.



**PRELIMINARY**  
 NOT FOR CONSTRUCTION



LAYOUT	6/27/12
DESIGN	5/28/13
REVIEW	5/28/13
DATE	

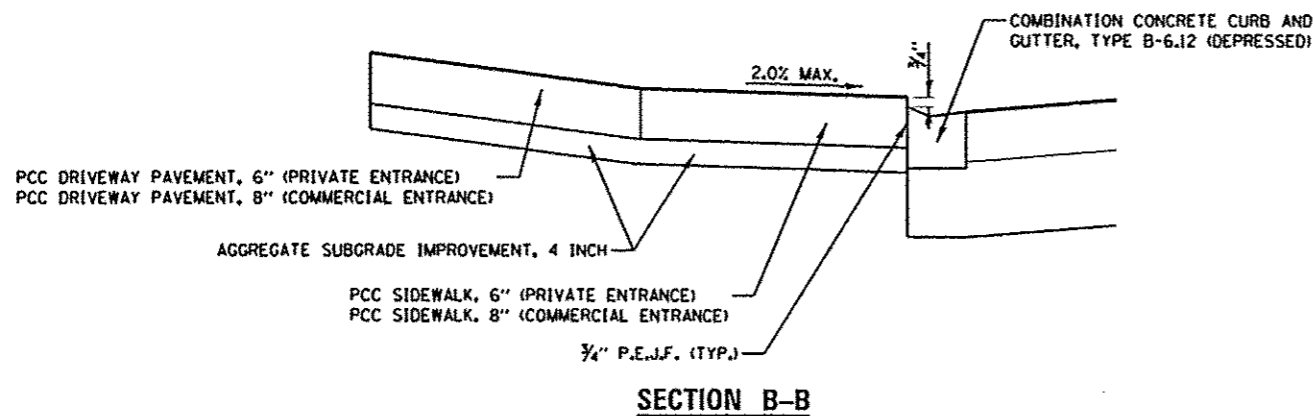
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PLOT SCALE * 1/8"=1'-0"		CHECKED - MPB	REVISIONS
PLOT DATE * 05/29/2013		DATE - 5/29/13	REVISIONS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

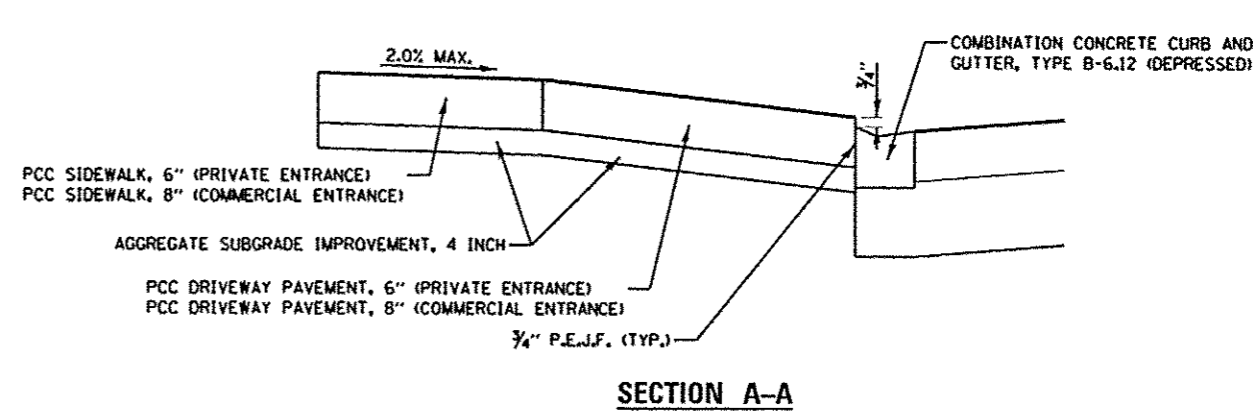
KELLOGG STREET AND WATER STREET  
 SIDEWALK RAMP DETAILS

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.

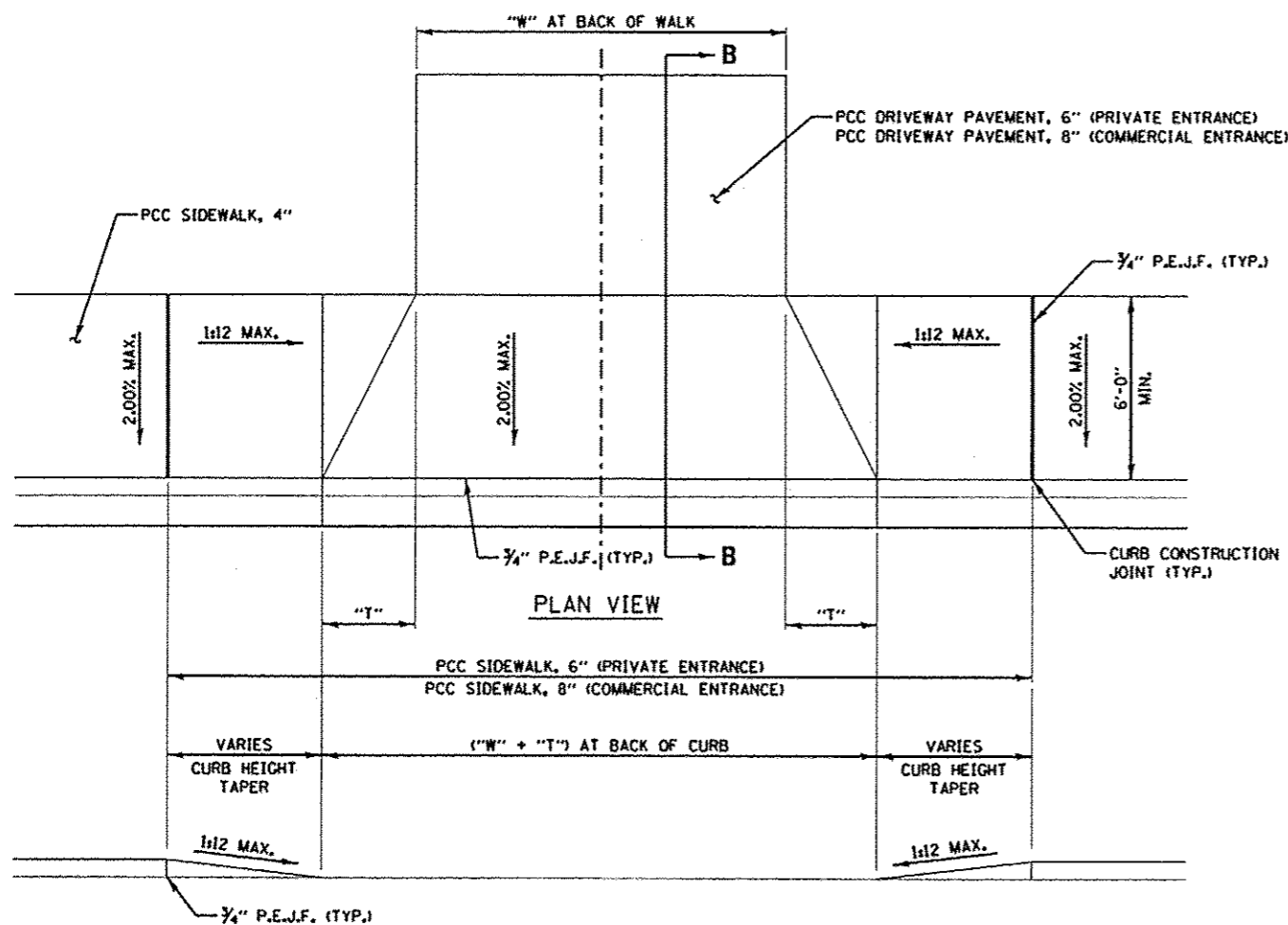
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CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**SECTION B-B**

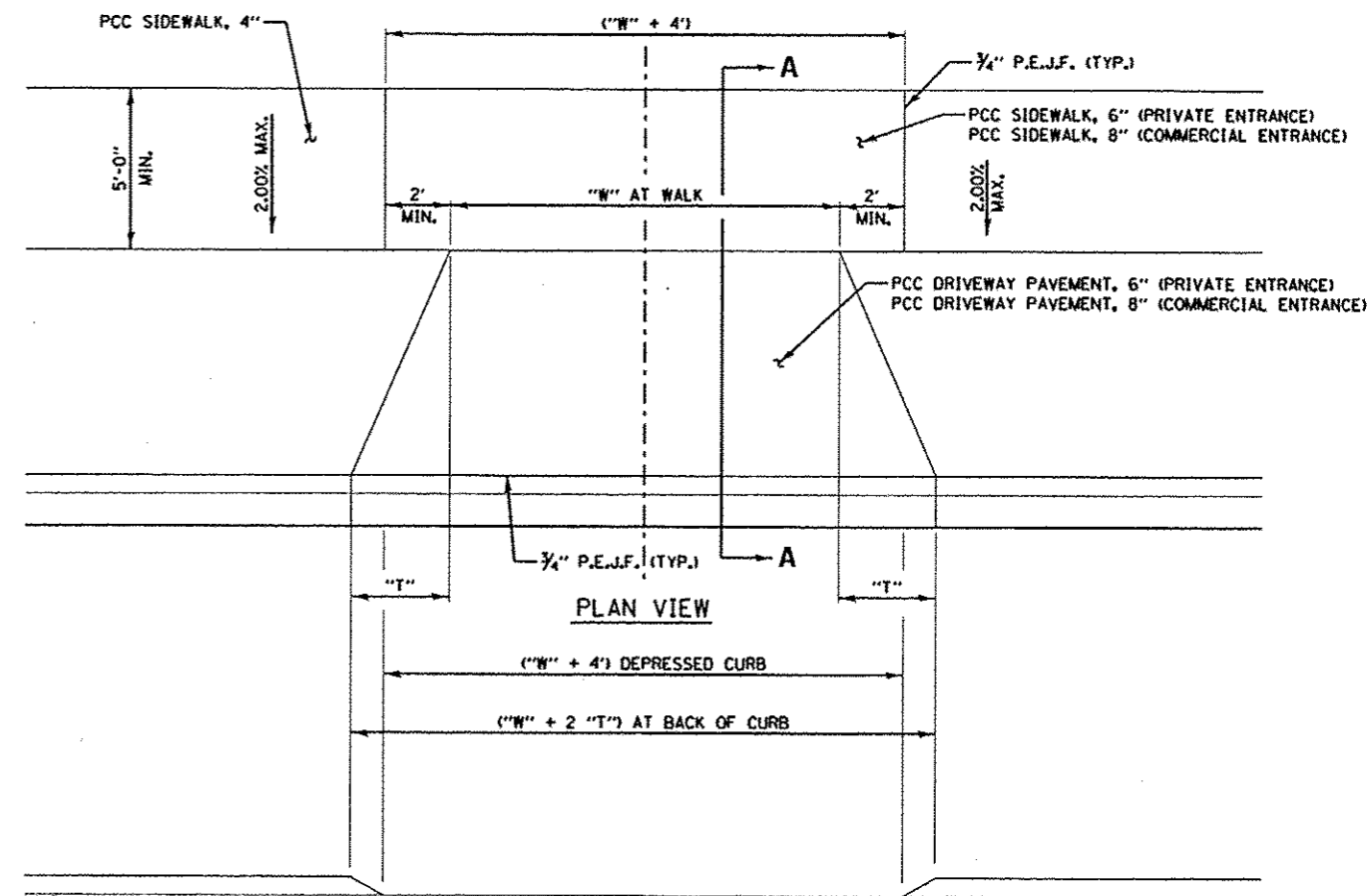


**SECTION A-A**



**PROFILE VIEW**

**ENTRANCE WITH CURBLINE SIDEWALK**



**PROFILE VIEW**

**ENTRANCE WITH SEPERATED SIDEWALK**

ENTRANCE WIDTH AND TAPER VALUES			
	ENTRANCE WIDTH	ENTRANCE TAPER	ENTRANCE/SIDEWALK THICKNESS
	"W"	"T"	
PRIVATE ENTRANCE	12'	3'	6"
COMMERCIAL ENTRANCE	24'	10'	8"

**ENTRANCE TYPICAL DETAILS**

LAYOUT	RLA	6/27/12
DESIGNED	MCD	5/28/13
CHECKED	MPB	5/28/13

FILE NAME =	USER NAME = davis09070	DESIGNED - RLA	REVISED -
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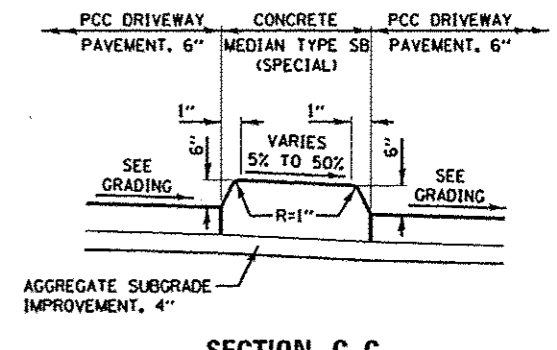
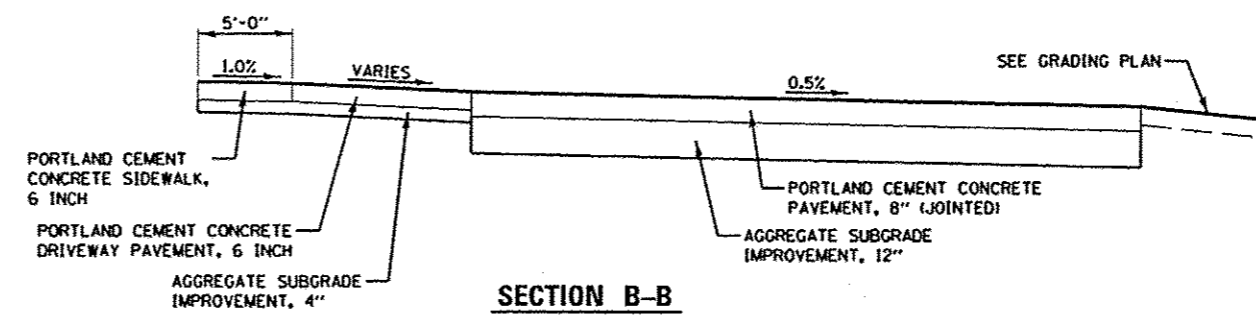
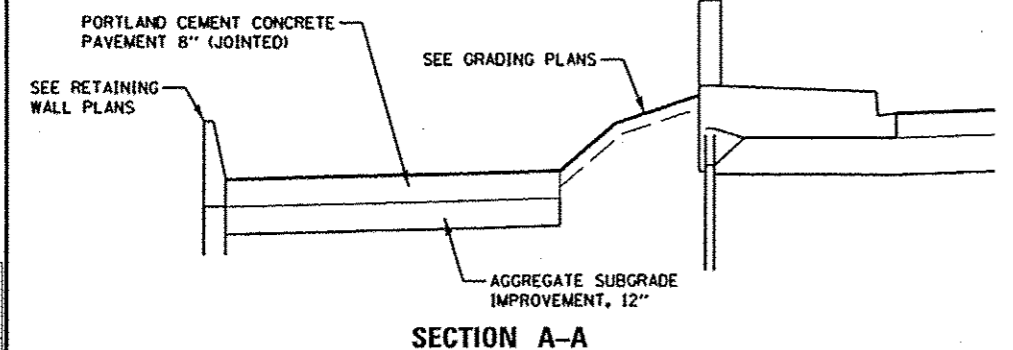
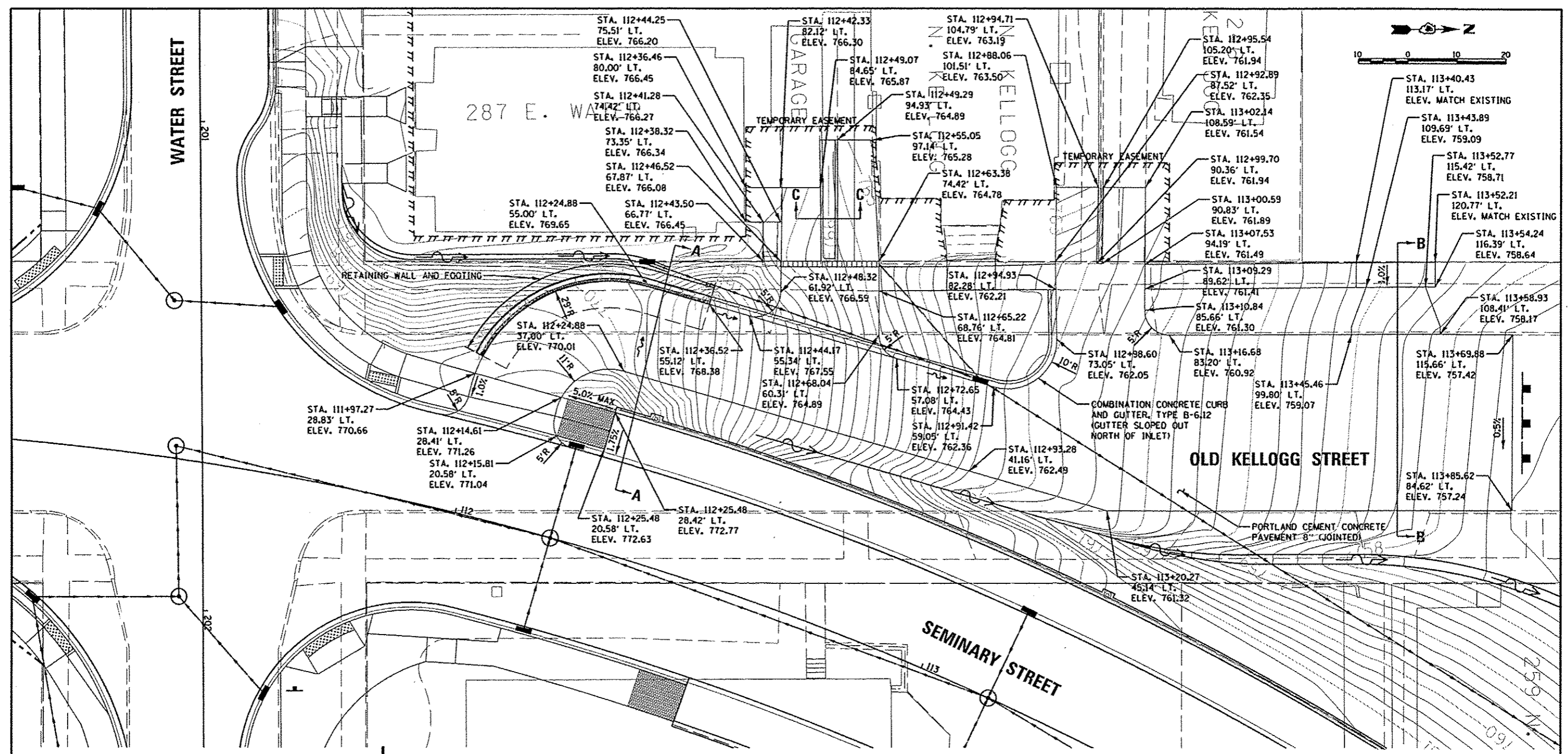
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET/KELLOGG STREET**  
**ENTRANCE TYPICAL DETAILS**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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6800			CONTRACT NO. 89419	
6801			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

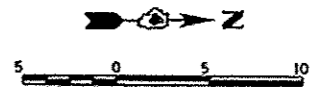
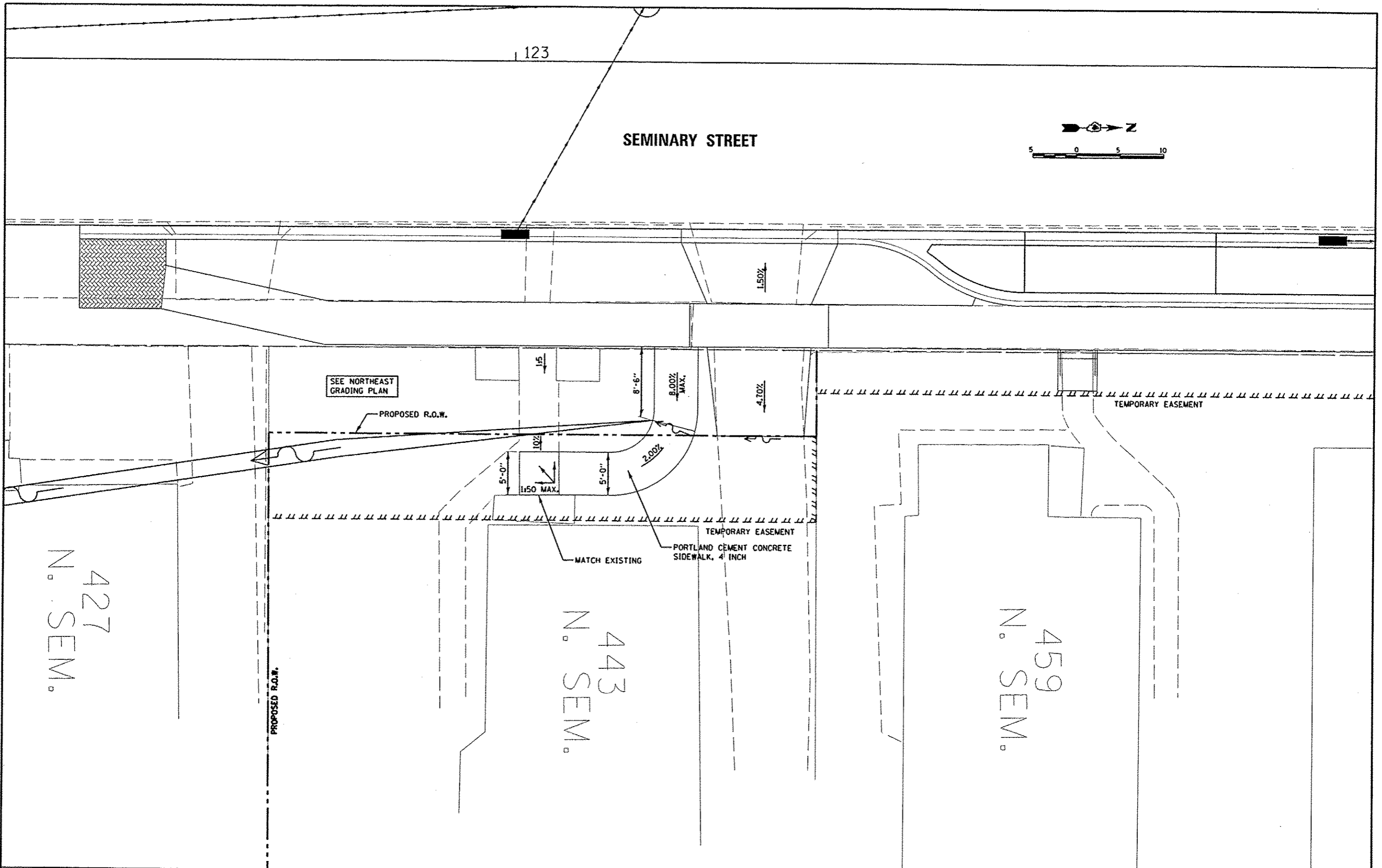
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LAYOUT	5/27/12
DRAWN	5/28/13
REVIEWED	5/28/13

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		DRAWN: MGD	REVISED:			6799	05-00501-21-GS	KNOX	269	192	
		CHECKED: MPB	REVISED:			6800					CONTRACT NO. 89419
		DATE: 5/29/13	REVISED:			6801					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.



LAYOUT	6/27/12
DESIGN	5/28/13
REVIEW	5/28/13

FILE NAME	USER NAME	DESIGNED	REVISIONS
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		REVISIONS	-

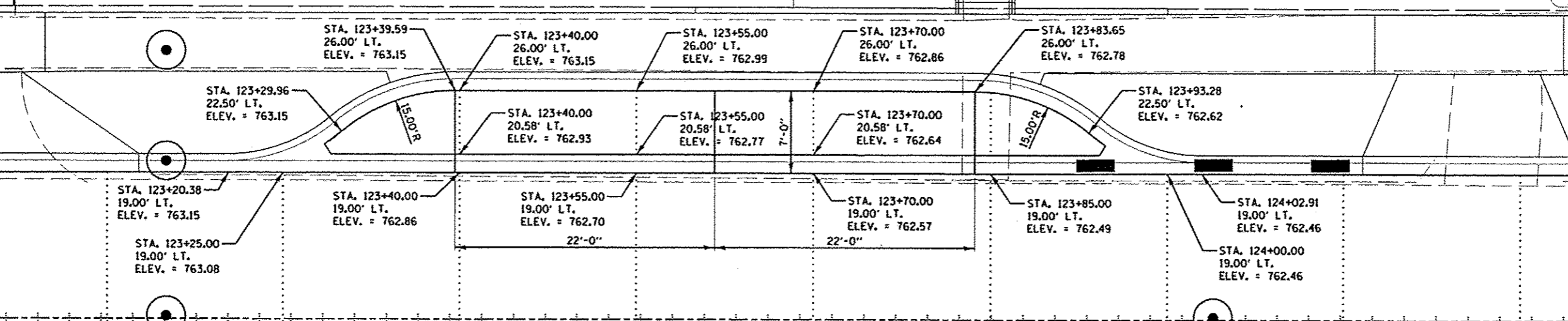
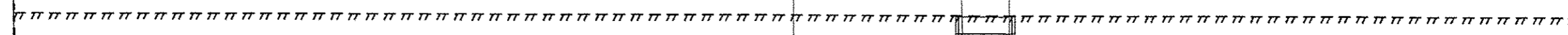
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ENTRANCE DETAIL  
 443 SEMINARY STREET**

SCALE: 1"=5'      SHEET NO. OF SHEETS      STA.      TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89419				
FED. ROAD DIST. NO.      [ILLINOIS] FED. AID PROJECT				

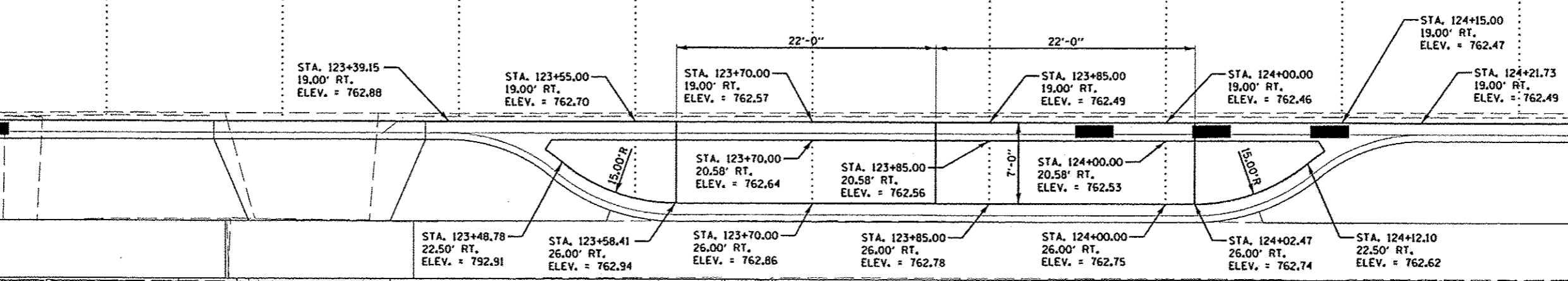




**SEMINARY STREET**

123

124



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LAYOUT	6/27/12
REVISED	5/28/13
REVISED	5/28/13

FILE NAME	USER NAME
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PLOT DATE	05/29/2013

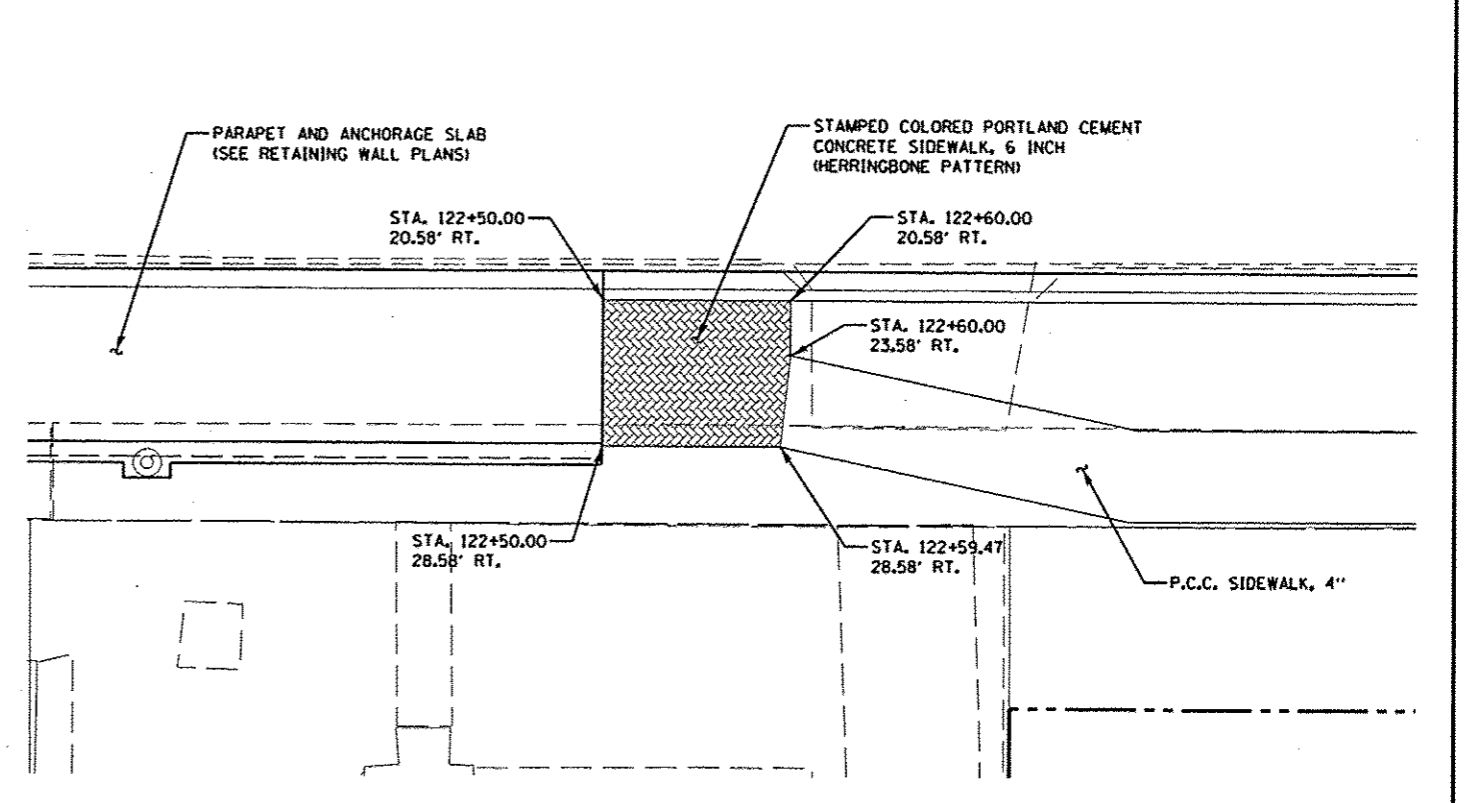
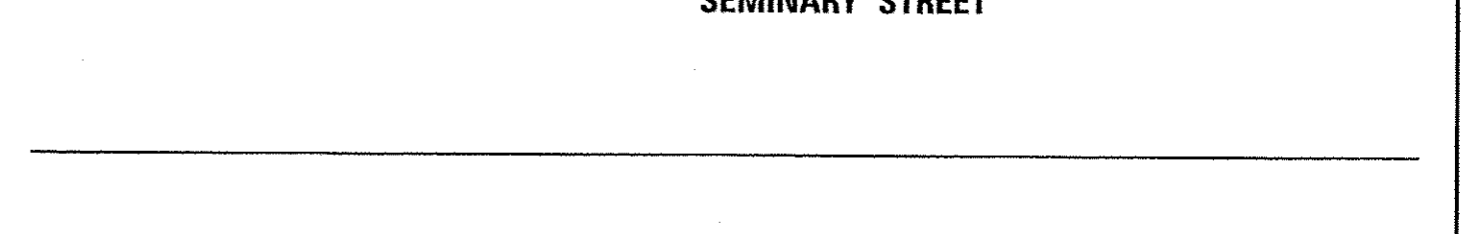
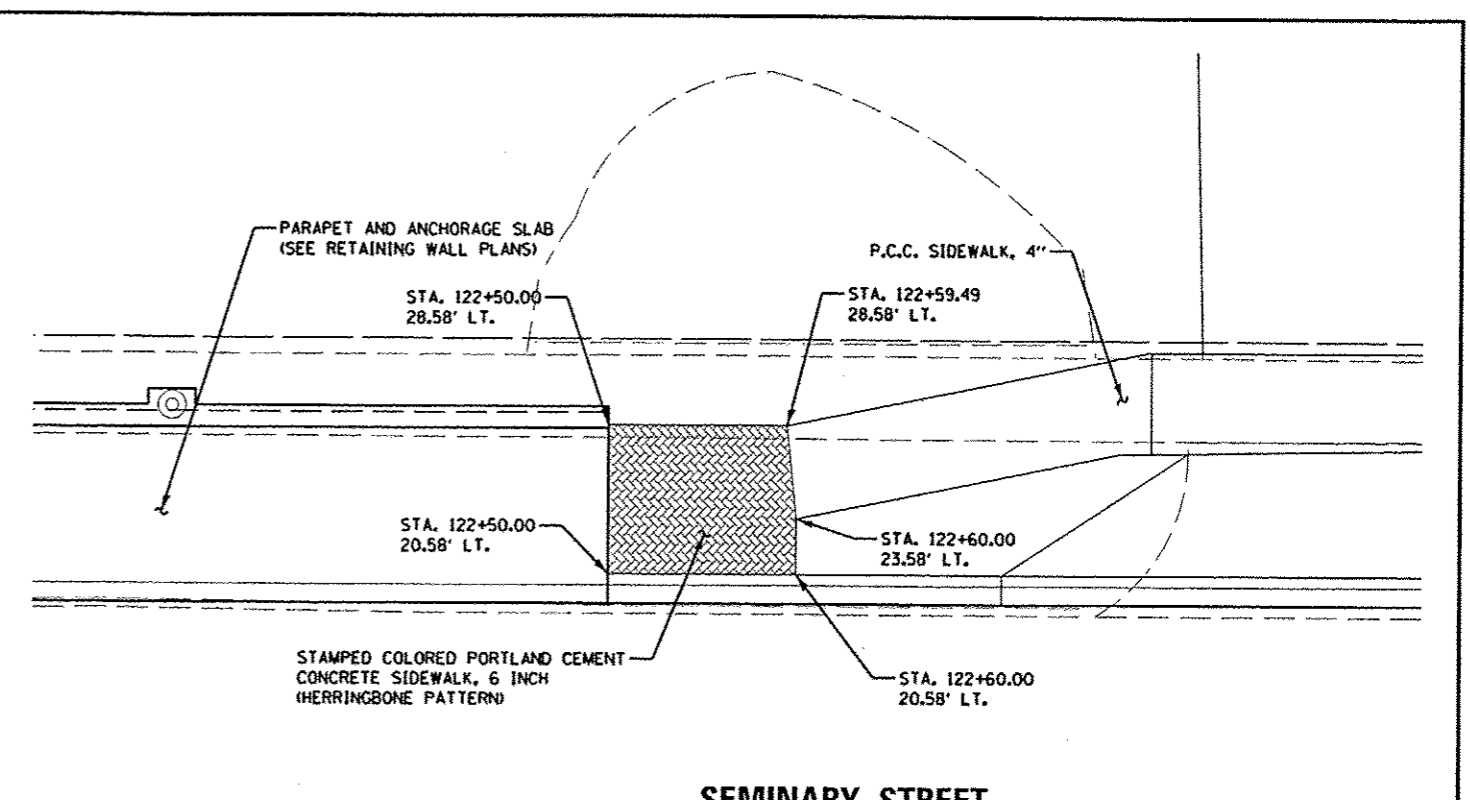
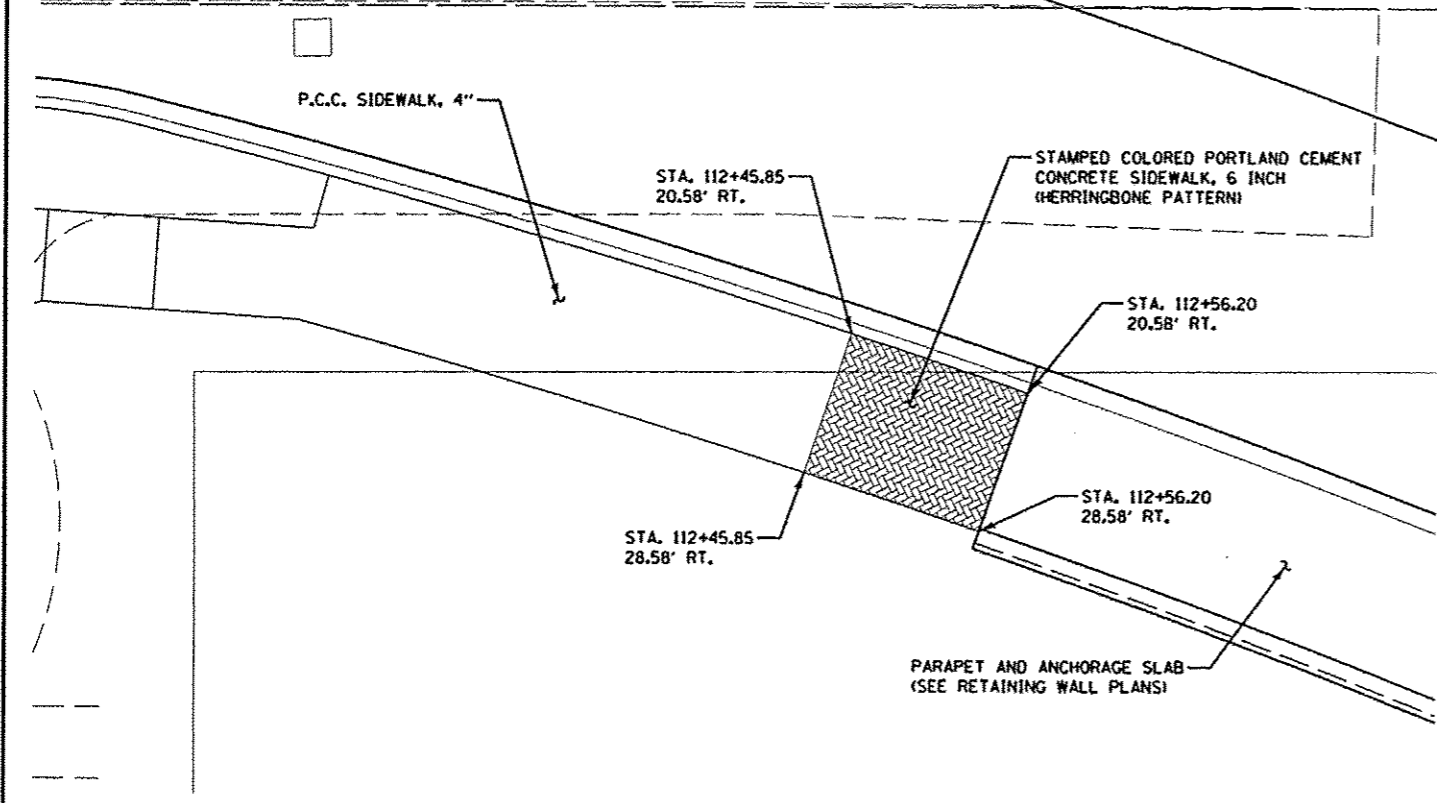
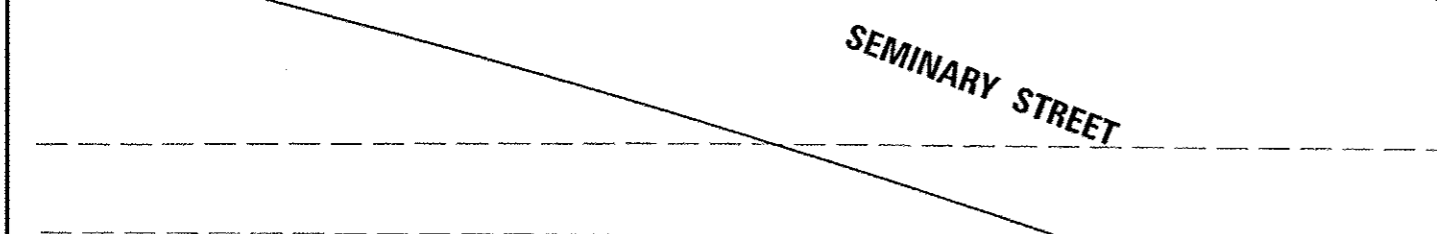
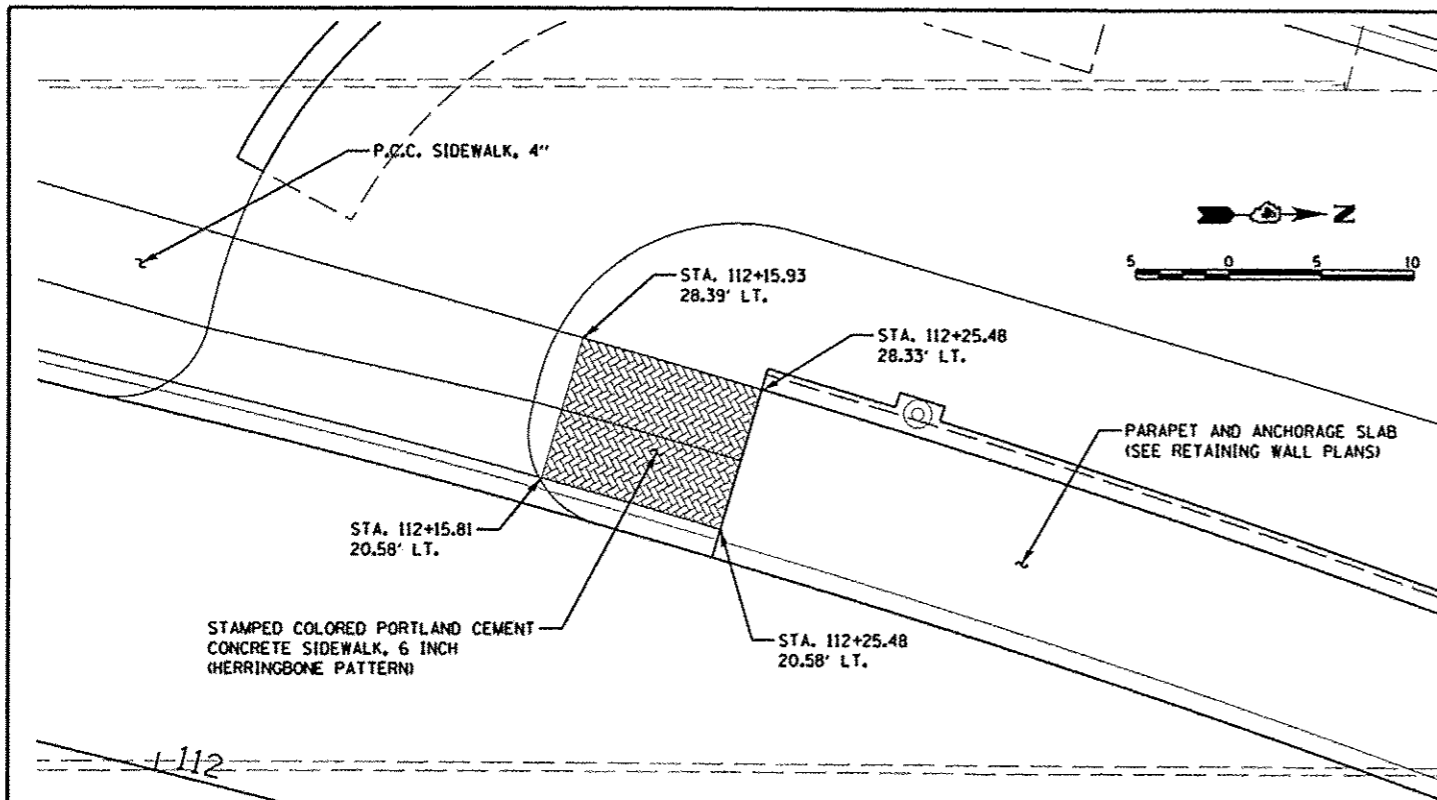
DESIGNED	RLA
DRAWN	MGD
CHECKED	MPB
DATE	5/29/13

REVISED	
REVISED	
REVISED	
REVISED	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SEMINARY STREET/KELLOGG STREET PARKING LANE GRADING DETAILS</b>	
SCALE: 1"=5'	SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	195
6800				
6801				
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DESIGNED	RLA	5/29/13
DRAWN	MGD	5/29/13
CHECKED	MPB	5/29/13
REVISIONS		

FILE NAME	c:\pwise\work\do_not_delete\des\10245\04
USER NAME	do-so0078
DESIGNED	RLA
DRAWN	MGD
CHECKED	MPB
DATE	5/29/13
REVISIONS	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SEMINARY STREET/KELLOGG STREET  
 STAMPED SIDEWALK DETAIL**

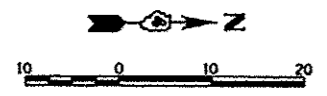
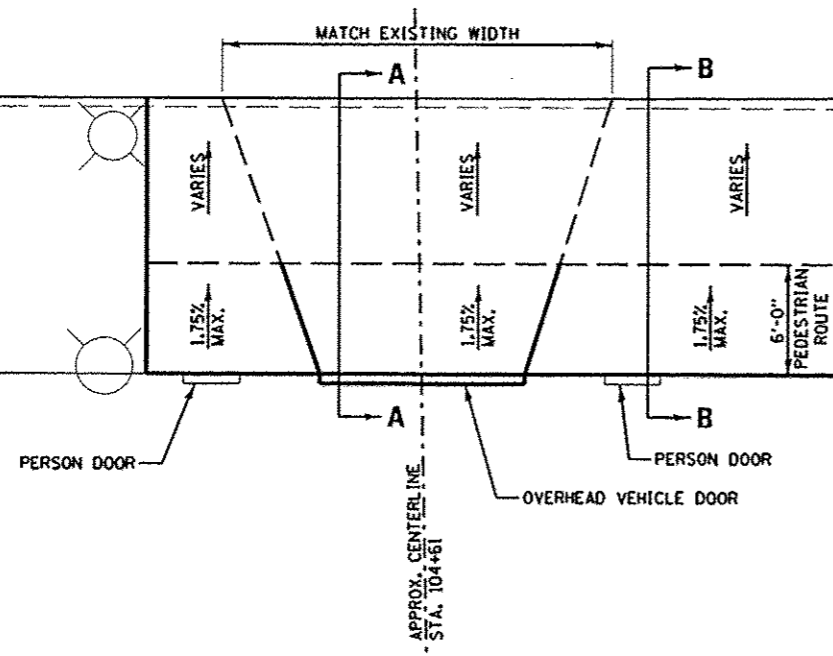
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	196
6800				
6801				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA. CONTRACT NO. 89419



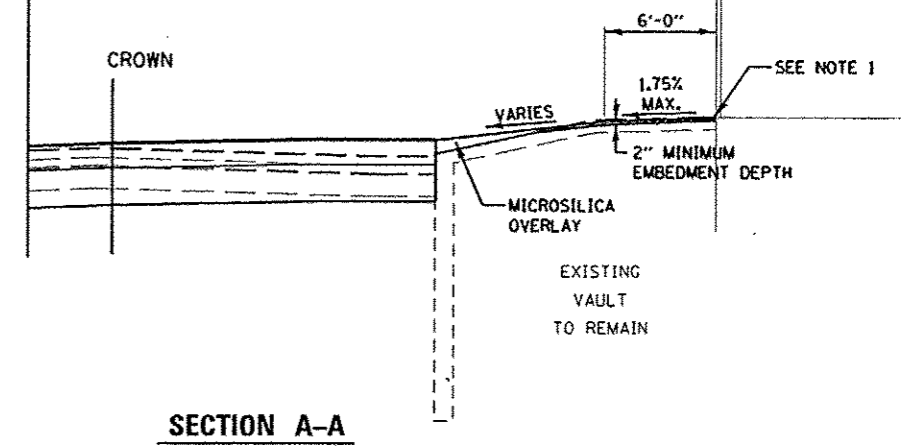
KELLOGG STREET

105+00



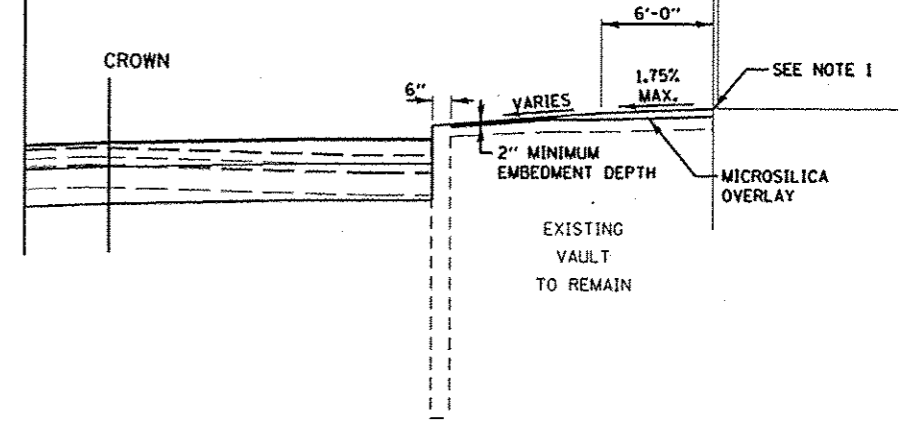
- NOTES:
1. MATCH LOCATION AND WIDTH OF EXISTING PERSON AND VEHICLE DOORS. OVERLAY SHALL BE BROUGHT FLUSH WITH FINISHED FLOOR ELEVATION AT EACH OPENING.
  2. PEDESTRIAN ROUTE SHALL HAVE A 2.0% MAXIMUM CROSS SLOPE.

SEMINARY ST.



SECTION A-A

SEMINARY ST.



SECTION B-B

DATE	6/27/12
BY	RLA
DATE	5/28/13
BY	MGO
DATE	5/28/13
BY	MPB

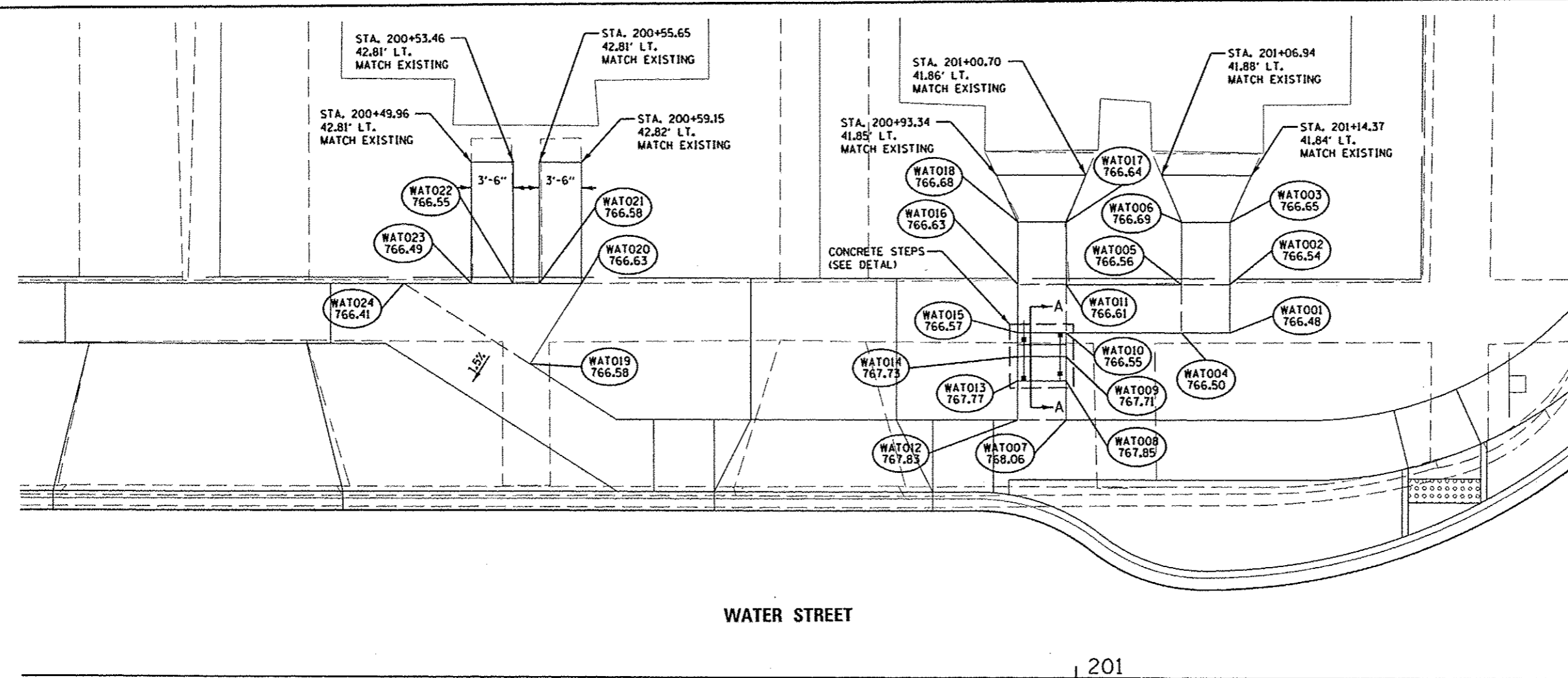
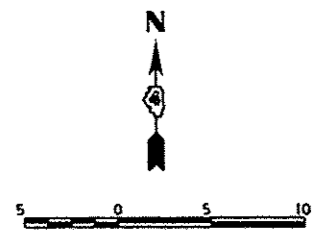
FILE NAME	USER NAME	DESIGNED	REVISED
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PL0214-snc-dets13009.dgn		DRAWN	MGO
PLOT SCALE = 10.0000' / 1"		CHECKED	MPB
PLOT DATE = 05/29/13		DATE	5/29/13
		REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SEMINARY STREET/KELLOGG STREET  
VAULT LID OVERLAY DETAIL

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.

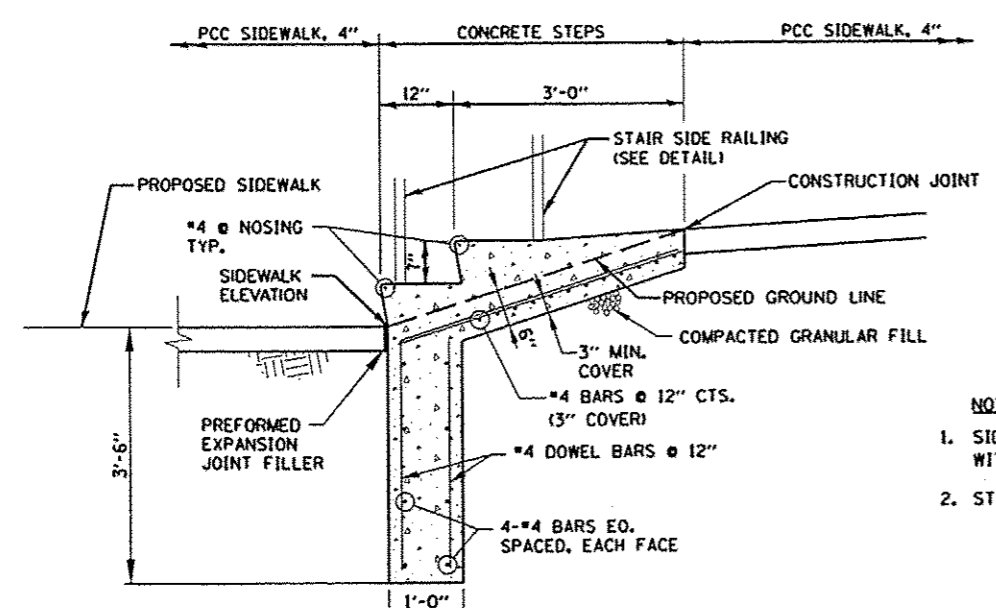
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799 6800 6801	05-00501-21-GS	KNOX	269	197
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



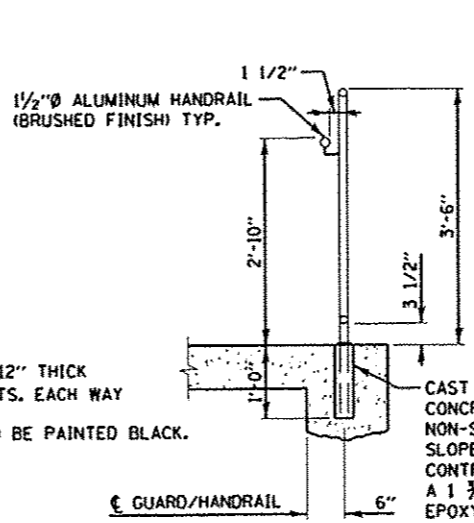
WATER STREET SIDEWALK AND STEP GRADES				
POINT NO.	STATION	OFFSET	SIDE	ELEVATION
WAT001	201+12.62	28.84	LT	766.48
WAT002	201+12.62	32.84	LT	766.54
WAT003	201+12.62	38.00	LT	766.65
WAT004	201+08.62	28.84	LT	766.50
WAT005	201+08.62	32.84	LT	766.56
WAT006	201+08.62	38.00	LT	766.69
WAT007	200+99.13	21.59	LT	768.06
WAT008	200+99.13	24.84	LT	767.85
WAT009	200+99.13	26.84	LT	767.71
WAT010	200+99.13	28.83	LT	766.55
WAT011	200+99.12	32.83	LT	766.61
WAT012	200+95.13	21.59	LT	767.83
WAT013	200+95.13	24.83	LT	767.77
WAT014	200+95.13	26.83	LT	767.73
WAT015	200+95.13	28.83	LT	766.57
WAT016	200+95.12	32.83	LT	766.63
WAT017	200+99.12	38.00	LT	766.64
WAT018	200+95.12	38.00	LT	766.68
WAT019	200+54.88	26.12	LT	766.58
WAT020	200+59.15	32.82	LT	766.63
WAT021	200+55.65	32.81	LT	766.58
WAT022	200+53.47	32.81	LT	766.55
WAT023	200+49.97	32.81	LT	766.49
WAT024	200+44.38	32.81	LT	766.41

WATER STREET

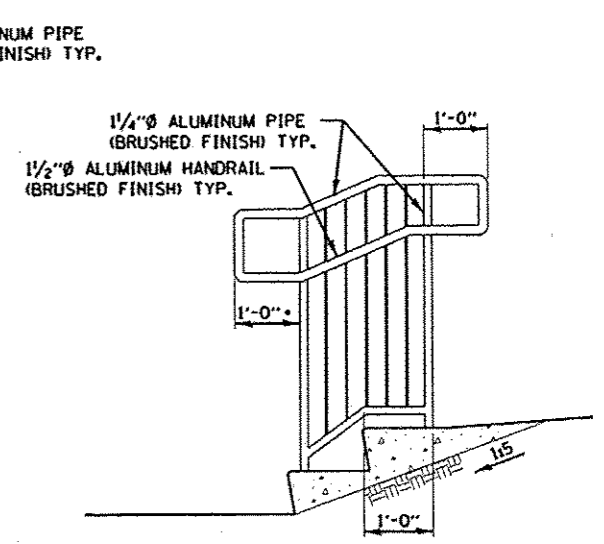
201



SECTION A-A  
 PROPOSED STEPS  
 SCALE: NONE



STAIR SIDE RAILING  
 SCALE: NONE



\* HANDRAIL EXTENSION AT BOTTOM OF STAIRS APPLIES ONLY TO THE WEST SIDE OF STAIRS.

- NOTE:**
- SIDE WALLS SHALL BE 12" THICK WITH #4 BARS @ 12" CTS. EACH WAY
  - STAIR SIDE RAILING TO BE PAINTED BLACK.

CAST 2 1/2" Ø x 12" VOID IN CONCRETE. SET POSTS IN NON-SHRINK GROUT. SLOPE GROUT TO DRAIN. CONTRACTOR MAY ALSO DRILL A 1 3/4" HOLE, FILL WITH EPOXY, AND SET THE POST IN THE EPOXY.

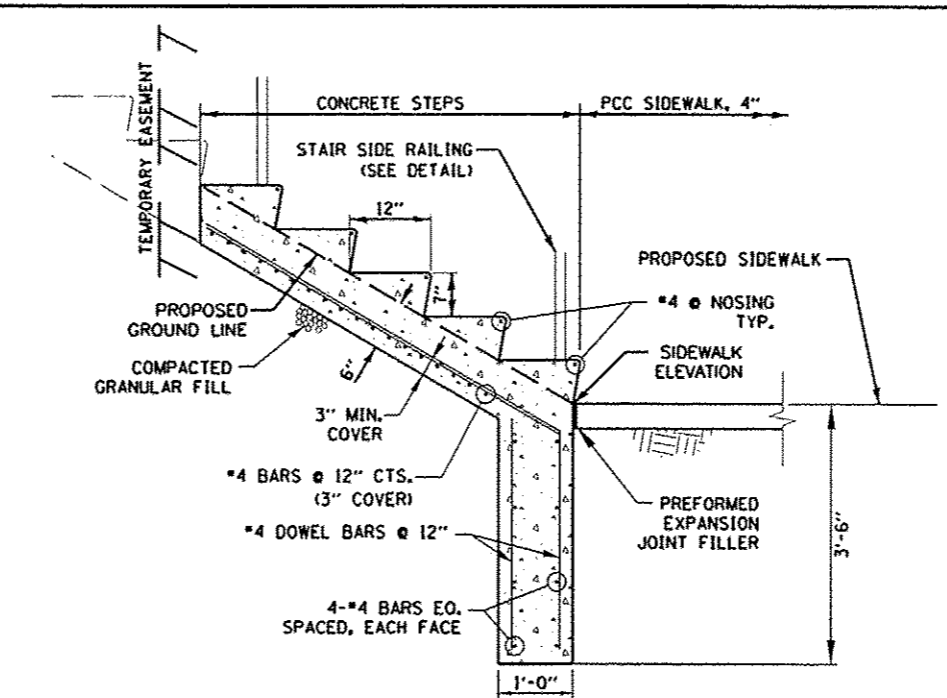
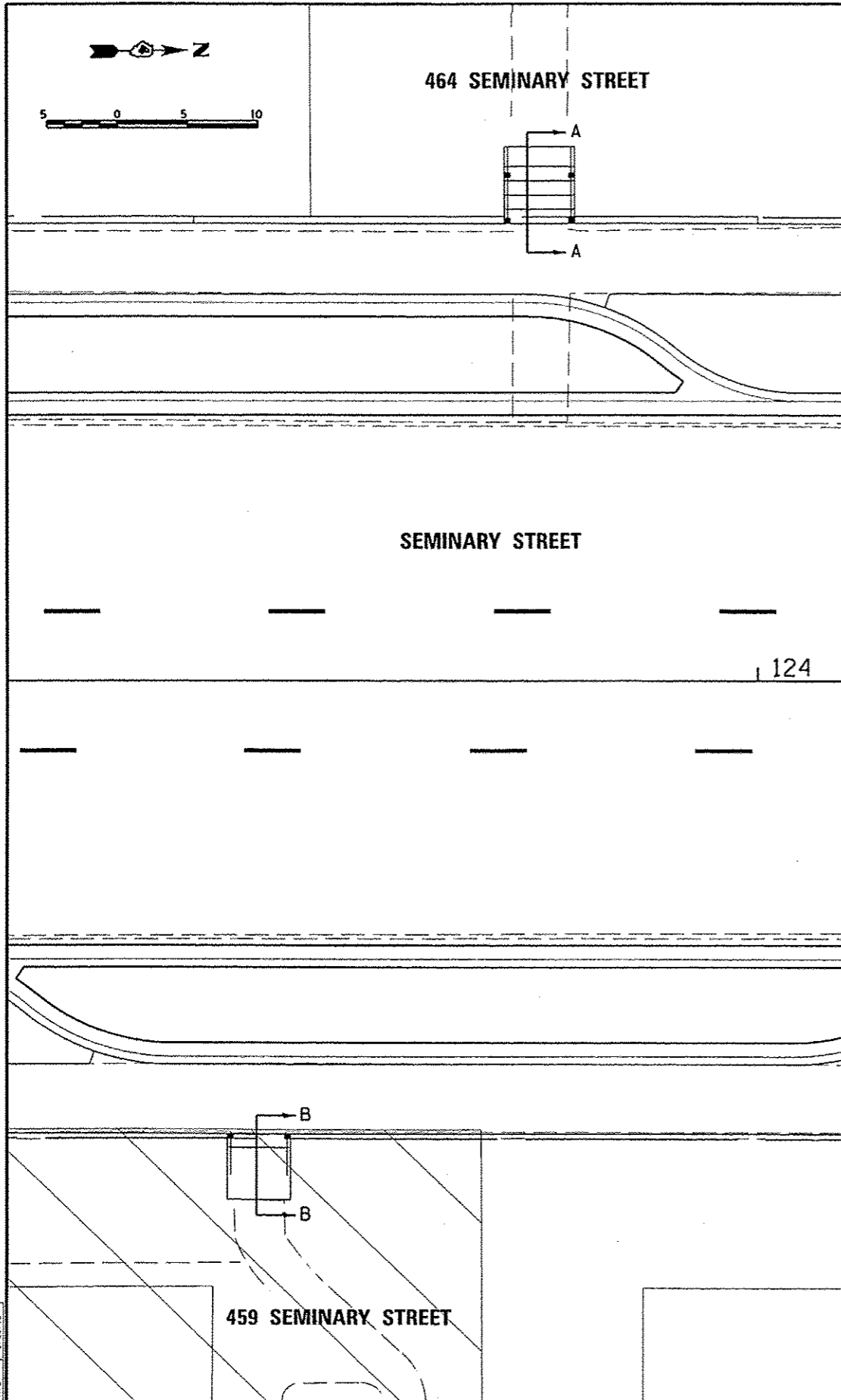
LAYOUT	RLA	6/27/12
DRAWN	MPB	5/28/13
REVIEWED	MPB	5/28/13

FILE NAME: c:\pwise\work\do_not_delete\ds\12245\04\12245-ans-detail13010.dgn	USER NAME: dowso0078	DESIGNED: RLA	REVISED:
PLOT SCALE: 1/8" = 1'-0"	CHECKED: MPB	DRAWN: MGD	REVISED:
PLOT DATE: 05/29/13	DATE: 5/29/13		REVISED:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

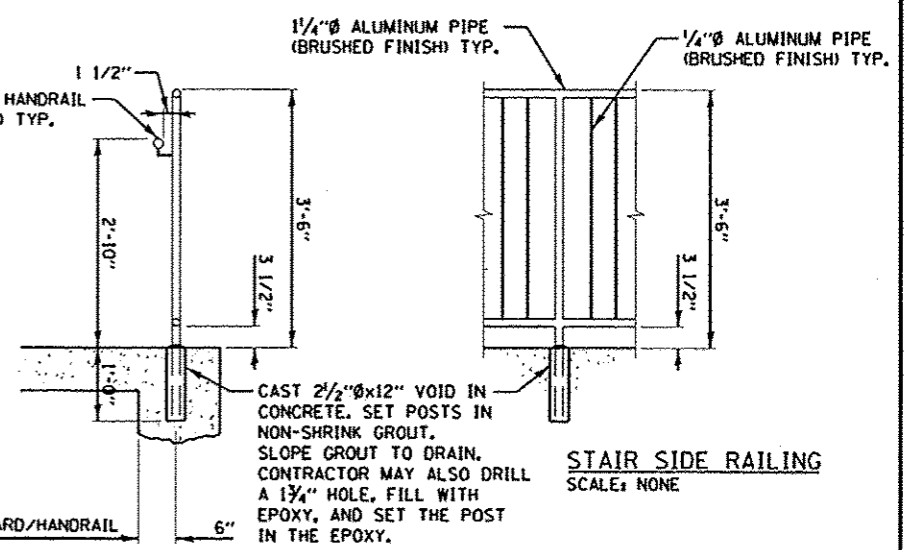
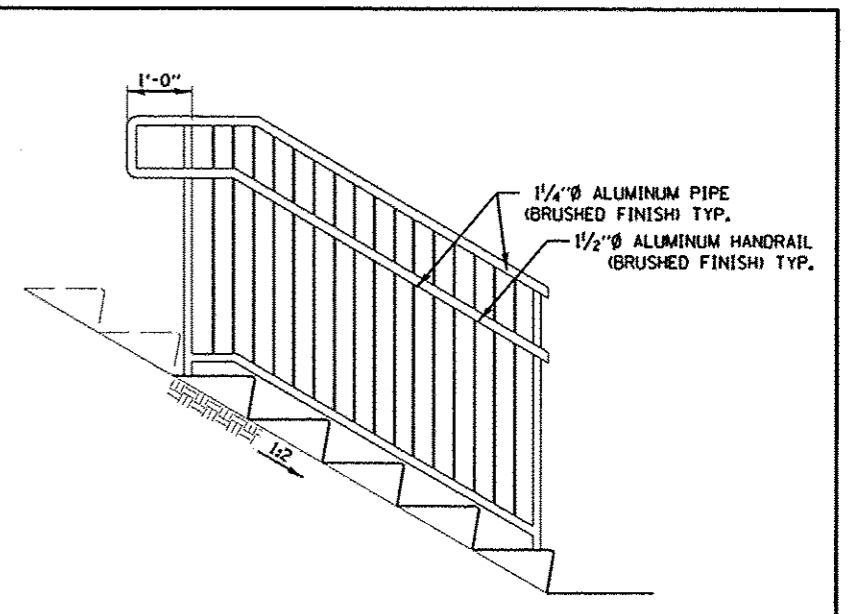
STAIR AND GRADING DETAILS			
277 AND 287 WATER STREET			
SCALE: 1" = 5'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.U. RTE. 6799 6800 6801	SECTION 05-00501-21-GS	COUNTY KNOX	TOTAL SHEETS 269	SHEET NO. 198
CONTRACT NO. 89419				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

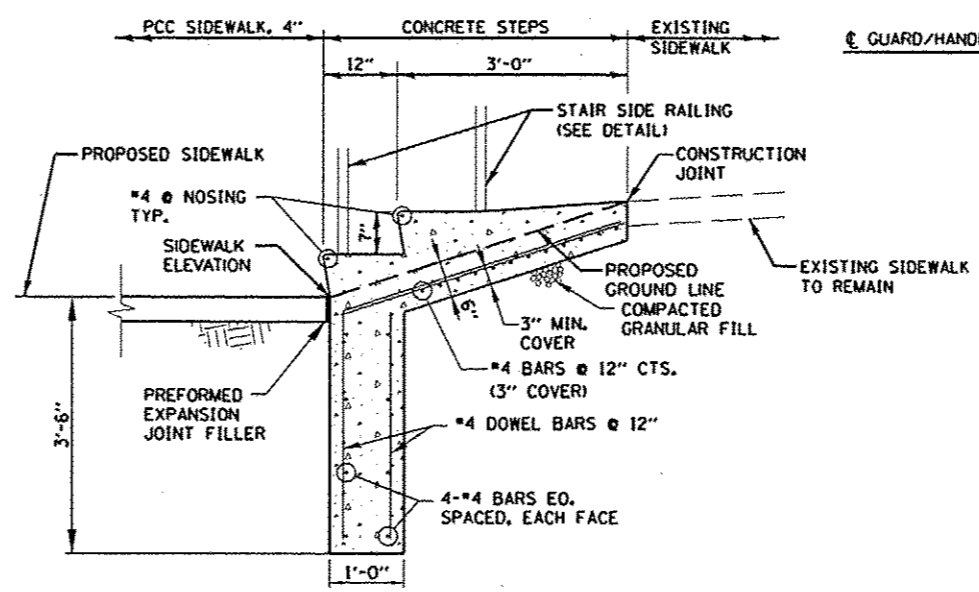


**SECTION A-A**  
**PROPOSED STEPS**  
 SCALE: NONE

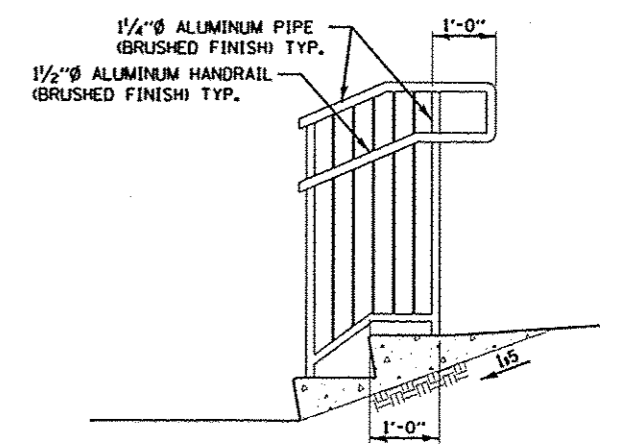
- NOTE:**
- SIDE WALLS SHALL BE 12" THICK WITH #4 BARS @ 12" CTS. EACH WAY
  - STAIR SIDE RAILING TO BE PAINTED BLACK.



**STAIR SIDE RAILING**  
 SCALE: NONE



**SECTION B-B**  
**PROPOSED STEPS**  
 SCALE: NONE



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

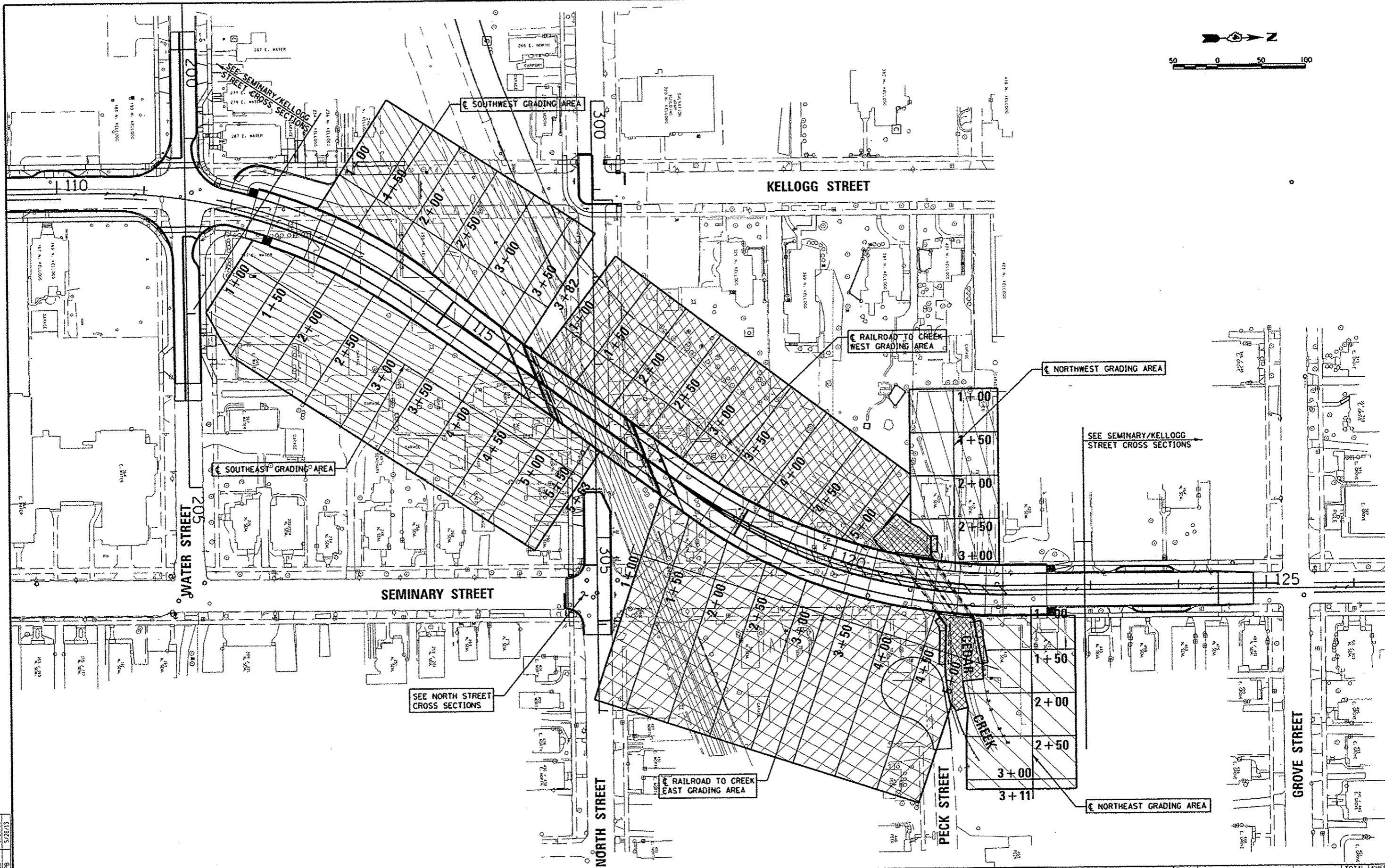
STAIR DETAILS  
 459 AND 464 SEMINARY STREET

LAYOUT	6/27/12
DRAWN	5/28/13
REVIEWED	5/28/13

FILE NAME	USER NAME	DESIGNED	REVISED
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		DRAWN	MGD
		CHECKED	MPB
		DATE	5/29/13
		REVISED	-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	199
6800				
6801				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.



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LAYOUT	DLC	5/27/13
DESIGN	MPB	5/28/13
REVIEW	MPB	5/28/13

FILE NAME *	USER NAME * dave080878	DESIGNED - DLC	REVISED -
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	PLOT SCALE = 1/80.0000 "/> <td>CHECKED - MPB</td> <td>REVISED -</td>	CHECKED - MPB	REVISED -
	PLOT DATE = 05/29/2013	DATE - 5/29/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>SEMINARY STREET/KELLOGG STREET    EARTHWORK SHEAR LINE DIAGRAM</b>			
SCALE: 1"=50'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6799	05-00501-21-GS	KNOX	269	200
6800				
6801				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
<b>CONTRACT NO.89419</b>				