

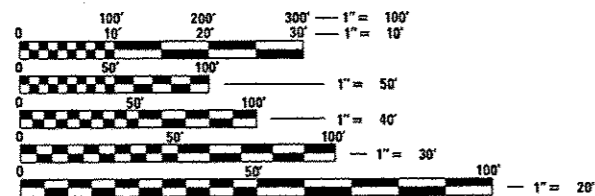
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FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

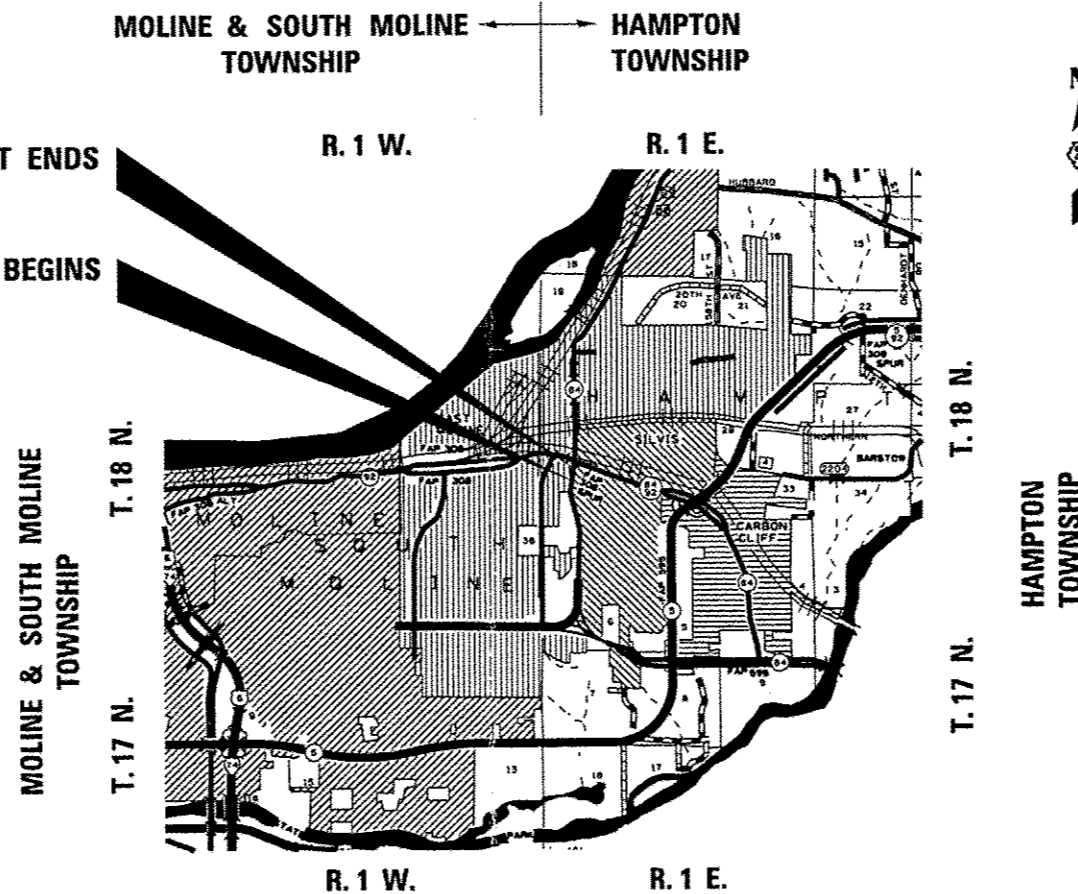
PROJECT ENGINEER: REBECCA MARRUFFO
PROJECT MANAGER: BRAD CUSHMAN (815) 284-5996

CONTRACT NO. 64K61

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAU ROUTE 5855 (19TH ST.)
SECTION 113M
PROJECT ACSTP-5855(004)
ROCK ISLAND COUNTY

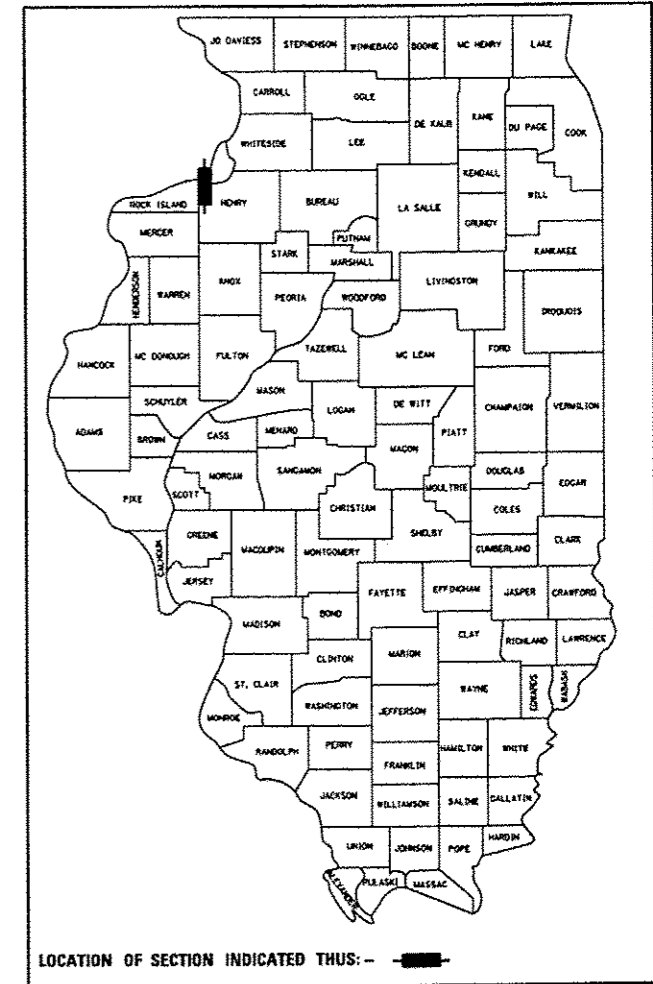
C-92-024-16



GROSS LENGTH = 495 FT. = 0.10 MILE
NET LENGTH = 495 FT. = 0.10 MILE

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	1
		ILLINOIS	CONTRACT NO. 64K61	

P-92-008-15



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3-11 2016
Paul A. Lorton
REGIONAL ENGINEER

May 6 2016
Maxim M. Ador P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 6 2016
Director of Program Development

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES

				80% FED
				20% STATE
				URBAN
				0044
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
20100500	TREE REMOVAL ACRES	ACRE	0.3	0.3
20200100	EARTH EXCAVATION	CU YD	1,590	1,590
25200110	SODDING, SALT TOLERANT	SQ YD	1,100	1,100
25200200	SUPPLEMENTAL WATERING	UNIT	55	55
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100
28000400	PERIMETER EROSION BARRIER	FOOT	350	350
28000500	INLET AND PIPE PROTECTION	EACH	1	1
28100109	STONE RIPRAP, CLASS A5	SQ YD	1,450	1,450
28200200	FILTER FABRIC	SQ YD	1,950	1,950
28400100	GABIONS	CU YD	467	467
28401000	SLOPE MATTRESS 12"	SQ YD	260	260
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	190	190
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	47	47

*** SPECIALTY ITEMS**

FILE NAME :	USER NAME : oshmanb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.W. RTE. 5855	SECTION 113M	COUNTY ROCK ISLAND	TOTAL SHEETS 34	SHEET NO. 2
PLT SCALE * 1/8" = 20' / in.	CHECKED -	REVISIED -	REVISIED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 64K61		
PLT DATE * Mar-10-2016 01:31:05 PM	DATE -	REVISIED -	REVISIED -							

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	URBAN	
			TOTAL QUANTITY	80% FED 20% STATE 0044 QUANTITY
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SO FT	2,475	2,475
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	300	300
44000600	SIDEWALK REMOVAL	SO FT	2,475	2,475
44201299	DOWEL BARS 1 1/2"	EACH	252	252
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SO YD	422	422
50102400	CONCRETE REMOVAL	CU YD	44	44
50200100	STRUCTURE EXCAVATION	CU YD	2,530	2,530
50300225	CONCRETE STRUCTURES	CU YD	44	44
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,940	3,940
51500100	NAME PLATES	EACH	1	1
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	16	16
58700300	CONCRETE SEALER	SO FT	1,980	1,980

↳ * SPECIALTY ITEMS

FILE NAME =	USER NAME = cwashman	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.U. RTEL 5855	SECTION 113M	COUNTY ROCK ISLAND	TOTAL SHEETS 34	SHEET NO. 3		
PROJECT =	DATE =	CHECKED -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 64K61		
PLT SCALE = 100.0000' / 1"	PLT DATE = Mar-10-2016 01:31:20 PM	DATE -	REVISED -									

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	URBAN	
			TOTAL QUANTITY	QUANTITY
60107700	PIPE UNDERDRAINS 6"	FOOT	300	300
60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	40	40
60605000	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24	FOOT	300	300
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	3	3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
• A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	11	11
• A2006914	TREE, QUERCUS PALUSTRIS (PIN OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	11	11
• B2004114	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	11	11
X0321837	REMOVE SHEET PILING	L SUM	1	1
X0322906	WEEP HOLES CORED	EACH	46	46
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	1810	1810
52200015	PERMANENT SHEET PILING	50 FT	14,620	14,620

3 * SPECIALTY ITEMS

FILE NAME :	USER NAME : ouahmanb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.U. RTE. 5855	SECTION 113M	COUNTY ROCK ISLAND	TOTAL SHEETS 34	SHEET NO. 4
PLOT SCALE : 100.0000' / 1"				SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64K61 <small>ILLINOIS FED. AID PROJECT</small>				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	URBAN	
			TOTAL QUANTITY	QUANTITY
X6024250	INLETS, SPECIAL, NO. 5	EACH	1	1
X6640525	CHAIN LINK FENCE, 4' ATTACHED TO STRUCTURE	FOOT	297	297
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0022800	FENCE REMOVAL	FOOT	288	288
Z0025505	PROPERTY MARKERS	EACH	9	9

6 * SPECIALTY ITEMS

GENERAL NOTES

The final top 4 inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Class C Patches shall be tied to the adjacent lane when the patches are more than 20 feet. The cost of the tie bars shall be included in the cost of the patch.

The following Mixture Requirements are applicable for this project:

	Mainline Resurfacing
Mixture Uses(s):	Surface
PG:	PG 64-22
Design Air Voids	4.0 @N50
Mixture Composition (Gradation Mixture)	IL 9.5
Friction Aggregate	D
20 Year ESAL	1.2
Quality Management Program to be Used	QC/QA
Sublot Tonnage	N/A

The Contractor will be required to furnish 5 1/2" high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 6" inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

The area to be tacked or primed shall be limited to that which can be covered with HMA on the next day's production, but no more than five days in advance of the placement of the HMA, unless approved by the Engineer.

A Nationwide 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The new number for this structure will be 081-7004.

The soils report and profiles are available at the District Office for Contractor's review.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

The cost of making storm sewer connections to existing drainage structures shall be included in the various contract unit prices for STORM SEWER.

The new manhole lids on this project shall have the word "STORM", "SANITARY", or "WATER" on the lid. The word to be used is noted on the plans. It will be the Contractor's responsibility to determine the word to be used on other lids not noted on the plans. No additional compensation will be allowed for this work.

The Contractor shall determine flowlines of existing sewer lines which are shown on the plans as estimated or unknown. This information is necessary before ordering inlets and manholes.

The Bureau of Operations (Kristie Nyderek at 815/284-5469) shall be contacted two weeks prior to the pavement marking needing to be placed that is disturbed during construction.

The Contractor shall be responsible for collecting and maintaining an electronic log of all stakeout survey that is performed on the job, either by him/her or any sub-contractor performing the stakeout. Upon request, all logs shall be submitted to the Department. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

Tree planting layout shall be performed by the District Roadside Management Specialist. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

Excess trees that cannot be planted along the 19th Street project limits shall be planted at alternative locations in Rock Island or Henry Counties as determined by the District Roadside Management Specialist.

Right-of-way markers will be erected per Highway Standard 666001 with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 12 inches inside the new right-of-way line. Method of installation shall be approved by the Engineer.

Backfill plugs required under Article 669.09 Groundwater Management shall be constructed of concrete when within the following limits: All trenches made in the subgrade of the proposed improvement, and all trenches outside of the subgrade where the inner edge of the trench is closer than 2' to the edge of the proposed pavement, stabilized shoulder, curb or sidewalk.

The Contractor shall be responsible for locating and protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

AT&T, (309) 757-4707	MidAmerican Energy (563) 333-8706
MidAmerican Energy (309) 793-3760	CenturyLink (563) 355-6402
Mediacom (309) 743-4750	Silvis Heights Water Corporation (309) 792-9237

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

Tie bars shall be installed to tie PCC appurtenance to adjacent existing concrete pavement.

Tie the following to the existing concrete pavement		Length, size, and spacing of Tie Bars
Gutter or Curb & Gutter	Std. 606001	24" long No. 6 @ 24" centers
PCC Base Course	Std. 353001	24" long No. 6 @ 30" centers
PCC Pavement	Std. 420101	24" long No. 6 @ 30" centers

Any connections made to existing 6 inch pipe underdrain near existing sheetpile wall to help outlet existing drain system. This work shall be included in the cost of the steel sheet price.

FILE NAME = 64K61.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN -	REVISED -			FAU 5855 (1 st Str.)	113M	Rock Island	34	6
	PLOT DATE = 3/10/2016 1:40 PM	CHECKED -	REVISED -			CONTRACT NO. 64K61				
	DATE = 3/11/2016 8:53 AM	REVISED -	SCALE:			SHEET NO.	OF	SHEETS	STA.	TO STA.

GENERAL NOTES

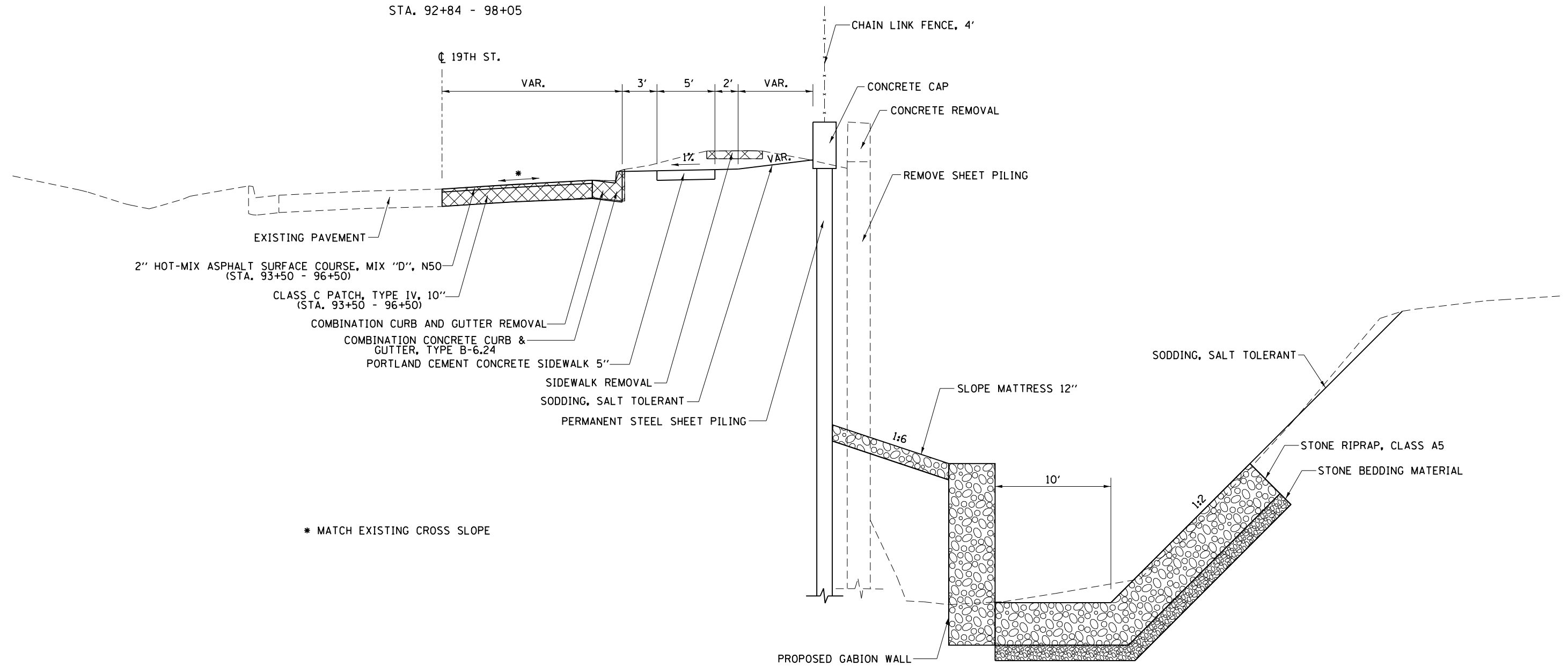
Tie bars to be installed in accordance with the applicable portions of Article 420.05(b) of the Standard Specifications. See Highway Standard 420001 for detail on longitudinal construction joint grouted-in-place tie bar. The cost of the tie bars to be included in the cost of the PCC appurtenance adjacent to the existing pavement.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

Existing storm sewer removal will be included in the cost of proposed storm sewer. The concrete collar to be poured around the storm sewer protruding through the proposed retaining wall will be included in the cost of proposed storm sewer.

FILE NAME = 64K61.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE - 3/1/2016 8:53 AM	REVISED -			ILLINOIS	FED. AID PROJECT				
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		

TYPICAL SECTIONS



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

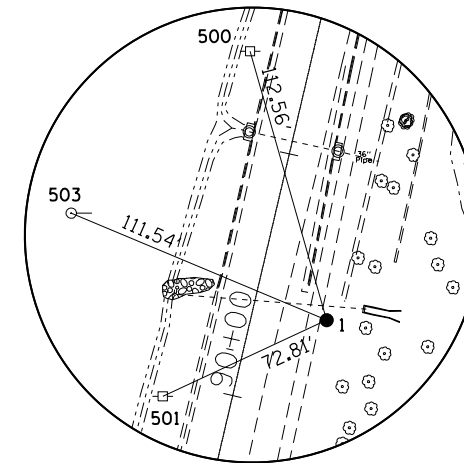
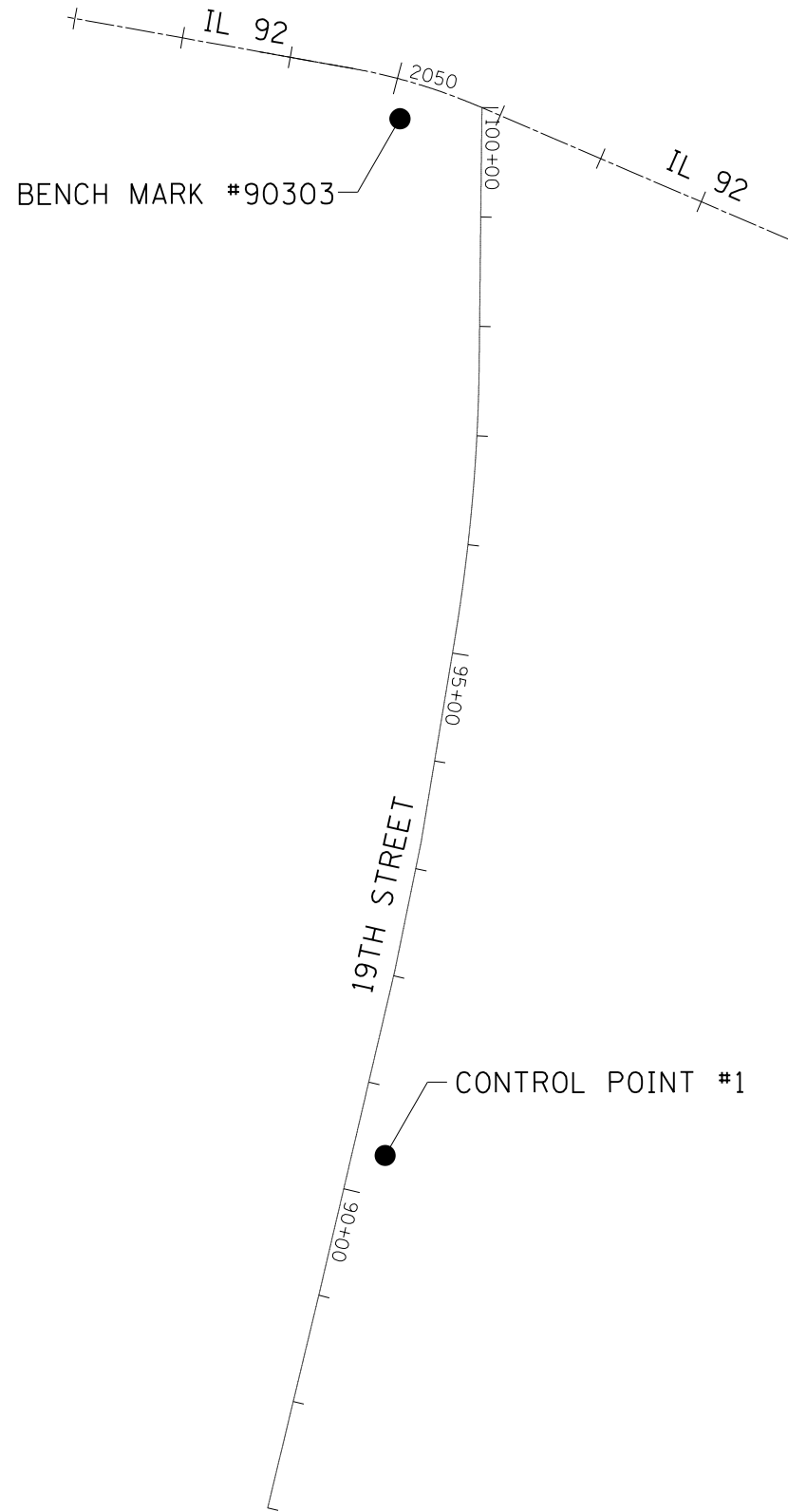
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	8
CONTRACT NO. 64K61				
ILLINOIS FED. AID PROJECT				

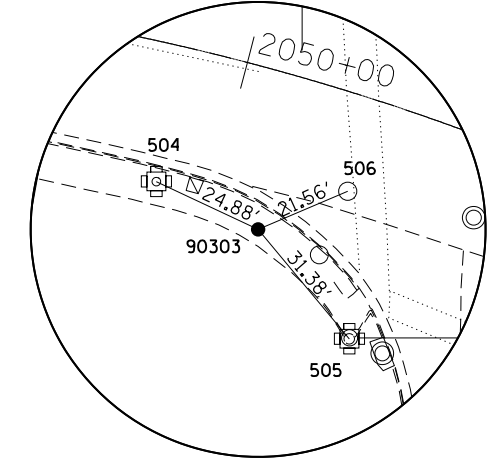
SCHEDULE OF QUANTITIES

20100500	TREE REMOVAL ACRES <u>LOCATION</u> STA 93+44 TO 96+91 RT	<u>ACRE</u> 0.30	<u>COMMENTS</u>				
	TOTAL	0.3					
25200110	SODDING, SALT TOLERANT <u>LOCATION</u> STA 92+84 TO 97+79 RT	<u>SQ_YD</u> 1100.00	<u>COMMENTS</u>				
	TOTAL	1100					
25200200	SUPPLEMENTAL WATERING <u>LOCATION</u> STA 92+84 TO 97+79 RT	<u>UNIT</u> 55	<u>COMMENTS</u>				
	TOTAL	55					
28000250	TEMPORARY EROSION CONTROL SEEDING <u>LOCATION</u> STA 92+84 TO 97+79 RT	<u>POUND</u> 100	<u>COMMENTS</u>				
	TOTAL	100					
28000400	PERIMETER EROSION BARRIER <u>LOCATION</u> STA 190+00 TO 193+50	<u>FOOT</u> 350	<u>COMMENTS</u> Estimated Quantity Location determined by Field Engineer				
	TOTAL	350					
28000500	INLET AND PIPE PROTECTION <u>LOCATION</u> STA 94+86.6 RT	<u>EACH</u> 1	<u>COMMENTS</u>				
	TOTAL	1					
28100109	STONE RIPRAP, CLASS A5 <u>LOCATION</u> STA 93+50 TO 97+79	<u>SQ_YD</u> 1,060	<u>COMMENTS</u> Var. Width This quantity is in addition to Structure Plans				
	TOTAL	1060					
28200200	FILTER FABRIC <u>LOCATION</u> STA 93+50 TO 97+79	<u>SQ_YD</u> 1,060	<u>COMMENTS</u> Var. Width This quantity is in addition to Structure Plans				
	TOTAL	1060					
40600290	BITUMINOUS MATERIALS (TACK COAT) <u>LOCATION</u> STA 93+50 TO 96+50	<u>POUND</u> 190	<u>COMMENTS</u>				
	TOTAL	190					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 <u>LOCATION</u> STA 93+50 TO 96+50	<u>TON</u> 47	<u>COMMENTS</u>				
	TOTAL	47					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH <u>LOCATION</u> STA 92+84 TO 97+79 RT	<u>SQ_FT</u> 2475	<u>COMMENTS</u>				
	TOTAL	2475					
44201299	DOWEL BARS 1 1/2" <u>LOCATION</u> STA 93+50 TO 96+50	<u>EACH</u> 252	<u>COMMENTS</u>				
	TOTAL	252					
44000500	COMBINATION CURB AND GUTTER REMOVAL <u>LOCATION</u> STA 93+50 TO 96+50 RT	<u>FOOT</u> 300	<u>COMMENTS</u>				
	TOTAL	300					
44000600	SIDEWALK REMOVAL <u>LOCATION</u> STA 92+84 TO 97+79 RT	<u>SQ_FT</u> 2475	<u>COMMENTS</u>				
	TOTAL	2475					
44201359	CLASS C PATCHES, TYPE IV, 10 INCH <u>LOCATION</u> STA 93+50 TO 96+50	<u>SQ_YD</u> 422	<u>COMMENTS</u>				
	TOTAL	422					
550A0450	STORM SEWERS, CLASS A, TYPE 2 36" <u>LOCATION</u> STA 94+84.6 RT	<u>FOOT</u> 16	<u>COMMENTS</u>				
	TOTAL	16					
60100915	PIPE UNDERDRAINS 6" <u>LOCATION</u> STA 93+50 TO 96+50 RT	<u>FOOT</u> 300	<u>COMMENTS</u> Estimated Quantity Location Determined by Field Engineer				
	TOTAL	300					
60108200	PIPE UNDERDRAINS 6" (SPECIAL) <u>LOCATION</u> STA 93+50 TO 96+50 RT	<u>FOOT</u> 40	<u>COMMENTS</u> Estimated Quantity Location Determined by Field Engineer				
	TOTAL	40					
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 <u>LOCATION</u> STA 93+50 TO 96+50 RT	<u>FOOT</u> 300	<u>COMMENTS</u>				
	TOTAL	300					
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY-MARKERS <u>LOCATION</u> STA 95+99.1 49.86' R 19th St. STA 96+63.9 53' RT 19th St. STA 96+64.6 42' RT 19th St.	<u>EACH</u> 1 1 1	<u>COMMENTS</u> SEE GENERAL NOTE FOR INSTALLATION METHOD SEE GENERAL NOTE FOR INSTALLATION METHOD SEE GENERAL NOTE FOR INSTALLATION METHOD				
	TOTAL	3					
X6024250	INLETS, SPECIAL, NO.5 <u>LOCATION</u> STA 94+86.6 16.5' RT	<u>EACH</u> 1	<u>COMMENTS</u>				
	TOTAL	1					
Z0025500	PROPERTY MARKERS <u>LOCATION</u> STA 93+53 RT STA 93+93 RT STA 94+30 RT STA 94+70 RT STA 95+36 RT STA 95+76 RT STA 96+14 RT STA 96+54 RT STA 97+09 RT	<u>EACH</u> 1 1 1 1 1 1 1 1 1	<u>COMMENTS</u> Estimated Location Estimated Location Estimated Location Estimated Location Estimated Location Estimated Location Estimated Location Estimated Location Estimated Location				
	TOTAL	9					

HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL
POINT NO. 1



BENCH MARK
POINT NO. 90303

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
19THST	200	200	201	202	203

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Mar-10-2016 11:43:14 AM	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HORIZONTAL & VERTICAL CONTROL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	10
CONTRACT NO. 64K61				
<small>ILLINOIS FED. AID PROJECT</small>				

HORIZONTAL & VERTICAL CONTROL

Chain 19THST contains:
1009 1010 1011 1008 CUR 200 1007

Beginning chain 19THST description
=====

Point 1009 N 1,764,646.1053 E 2,225,534.4183 Sta 87+00.00
Course from 1009 to 1010 N 13° 31' 26.5140" E Dist 200.2661'
Point 1010 N 1,764,840.8184 E 2,225,581.2512 Sta 89+00.27
Course from 1010 to 1011 N 13° 11' 29.9187" E Dist 304.5824'
Point 1011 N 1,765,137.3635 E 2,225,650.7596 Sta 92+04.85
Course from 1011 to 1008 N 11° 33' 21.1931" E Dist 120.1516'
Point 1008 N 1,765,255.0796 E 2,225,674.8288 Sta 93+25.00
Course from 1008 to PC 200 N 9° 25' 12.4082" E Dist 188.3600'

Curve Data

Curve 200
P.I. Station 96+41.05 N 1,765,566.8692 E 2,225,726.5577
Delta = 8° 48' 33.5452" (LT)
Degree = 3° 27' 22.5346"
Tangent = 127.6917'
Length = 254.8801'
Radius = 1,657.7395'
External = 4.9106'
Long Chord = 254.6291'
Mid. Ord. = 4.8961'
P.C. Station 95+13.36 N 1,765,440.8995 E 2,225,705.6581
P.T. Station 97+68.24 N 1,765,694.5536 E 2,225,727.9189
C.C. N 1,765,712.2255 E 2,224,070.2736

Course from PT 200 to 1007 N 0° 36' 38.8630" E Dist 231.7599'
Point 1007 N 1,765,926.3004 E 2,225,730.3895 Sta 100+00.00

=====

Ending chain 19THST description

Chain IL92 contains:
A0491623 CUR A0491630 A0491642

Beginning chain IL92 description
=====

Point A0491623 N 1,766,096.8455 E 2,224,864.1328 Sta 2041+97.98
Course from A0491623 to PC A0491630 S 79° 47' 14.3707" E Dist 760.7765'

Curve Data

Curve A0491630
P.I. Station 2050+19.05 N 1,765,951.2678 E 2,225,672.1941
Delta = 13° 00' 28.4686" (RT)
Degree = 10° 50' 01.3752"
Tangent = 60.2936'
Length = 120.0688'
Radius = 528.8655'
External = 3.4258'
Long Chord = 119.8111'
Mid. Ord. = 3.4038'
P.C. Station 2049+58.76 N 1,765,961.9580 E 2,225,612.8558
P.T. Station 2050+78.82 N 1,765,927.4957 E 2,225,727.6035
C.C. N 1,765,441.4716 E 2,225,519.0867

Course from PT A0491630 to A0491642 S 66° 46' 45.9021" E Dist 2,073.2807'

Point A0491642 N 1,765,110.0590 E 2,227,632.9355 Sta 2071+52.10

=====

Ending chain IL92 description

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 2\Projects\2016\Drawings\A0491630\A0491630-11-16-16.dgn		CHECKED -	REVISED -			5855	113M	ROCK ISLAND	34	11	
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	PLOT DATE = Mar-10-2016 11:43:27 AM	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA.	TO STA.		

HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1764968.3311	2225641.8837	609.4898	19THST	90+38.25	29.933' RT	TOPO SURVEY POINT, PIN
4	1765323.5227	2225716.7014	608.8268	19THST	93+99.37	30.1057' RT	TOPO SURVEY POINT, NAIL
5	1764986.1148	2225682.6315	594.5322	19THST	90+64.86	65.5472' RT	TOPO SURVEY POINT, NAIL
6	1765059.8600	2225670.1172	601.9658	19THST	91+33.81	36.5338' RT	TOPO SURVEY POINT, NAIL
7	1764848.4743	2225708.3928	597.1011	19THST	89+36.73	122.0395' RT	TOPO SURVEY POINT, NAIL
8	1764872.7689	2225799.0495	596.8875	19THST	89+81.08	204.7597' RT	TOPO SURVEY POINT, NAIL
20	1765249.7035	2225673.7959	608.9665	19THST	93+19.53	0.065' RT	PAVEMENT - CENTERLINE
21	1765181.0592	2225659.9319	609.7279	19THST	92+49.50	0.2331' RT	PAVEMENT - CENTERLINE
22	1765130.6325	2225648.8750	610.0298	19THST	91+97.86	0.2988' LT	PAVEMENT - CENTERLINE
23	1765073.2660	2225635.7423	610.1396	19THST	91+39.02	0.0066' RT	PAVEMENT - CENTERLINE
24	1765039.3497	2225627.9081	610.1739	19THST	91+04.21	0.1191' RT	PAVEMENT - CENTERLINE
25	1764993.0480	2225616.7912	610.0829	19THST	90+56.59	0.138' LT	PAVEMENT - CENTERLINE
26	1764899.1634	2225595.0453	610.5371	19THST	89+60.22	0.1153' RT	PAVEMENT - CENTERLINE
27	1764863.2805	2225586.5363	610.6271	19THST	89+23.34	0.0196' RT	PAVEMENT - CENTERLINE
28	1764836.2299	2225580.4313	610.6333	19THST	88+95.61	0.2759' RT	PAVEMENT - CENTERLINE
29	1764789.7059	2225568.8219	610.8909	19THST	88+47.66	0.1318' LT	PAVEMENT - CENTERLINE
90303	1765916.1406	2225655.4744	595.1294	19THST	99+89.04	74.8026' LT	PHOTO CONTROL H. & V., CHISELED "X"

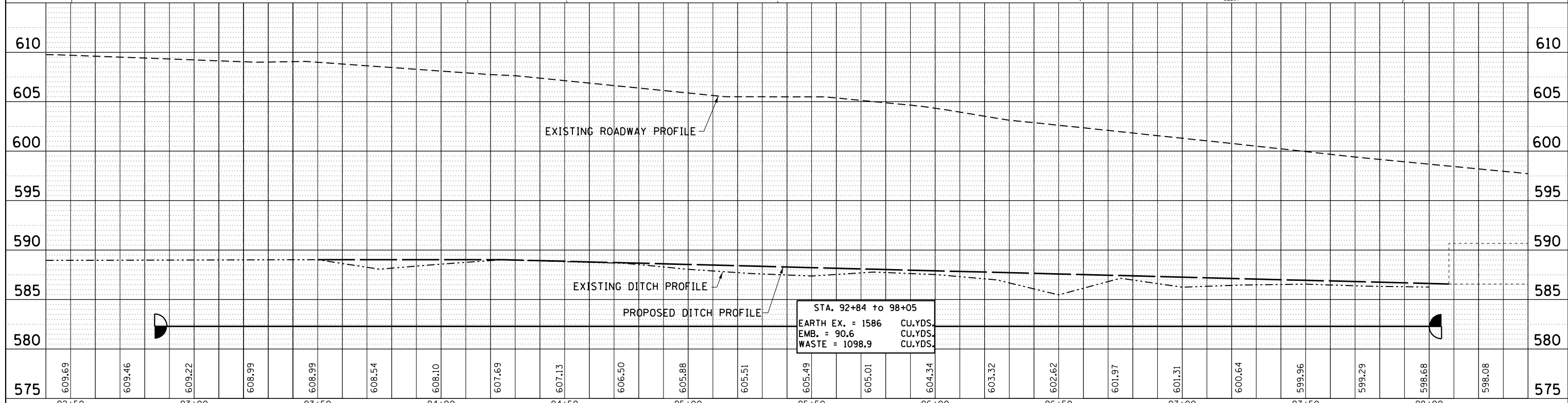
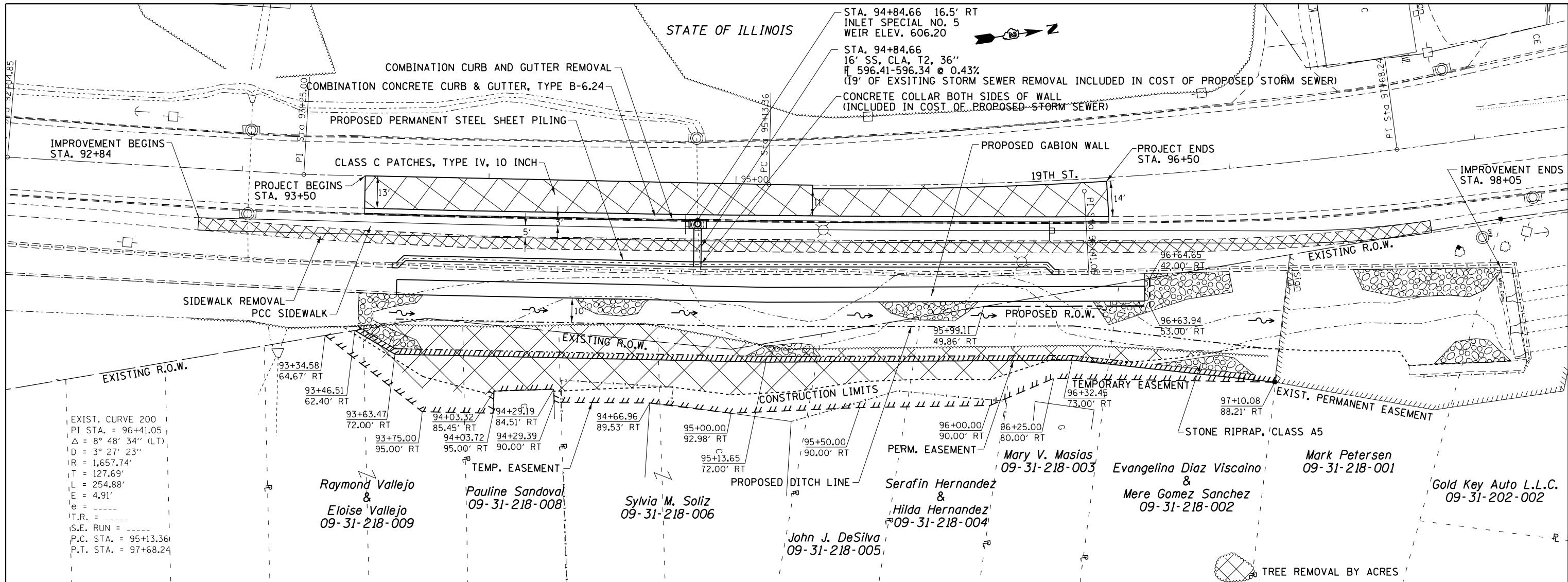
SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
AMT100	1765684.6740	2225768.3260	600.8960	19THST	97+59.02	40.5364' RT	SURVEY WORK POINT, NAIL
AMT101	1765426.3620	2225725.4120	607.5080	19THST	95+02.25	21.8669' RT	SURVEY WORK POINT, NAIL
AMT102	1765635.3510	2225811.0720	595.3230	19THST	97+12.75	84.7555' RT	SURVEY WORK POINT, NAIL
AMT103	1765532.3450	2225768.2740	588.6550	19THST	96+10.95	49.7623' RT	SURVEY WORK POINT, NAIL
AMT104	1765418.4570	2225765.2100	588.5440	19THST	95+00.97	62.422' RT	SURVEY WORK POINT, NAIL
AMT105	1765351.0900	2225741.8650	589.3850	19THST	94+30.69	50.418' RT	SURVEY WORK POINT, NAIL

REFERENCE TIES						
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION
500	1765076.6337	2225611.0398	19THST	91+36.66	24.8126' LT	POWER POLE WITH LIGHT
501	1764937.6383	2225575.8572	19THST	89+93.30	27.3468' LT	POWER POLE
502	1764862.2475	2225610.5025	19THST	89+27.81	23.5891' RT	POWER POLE WITH LIGHT
503	1765011.5951	2225539.3683	19THST	90+56.98	79.7505' LT	GUY POLE
504	1765926.8230	2225633.3291	19THST	99+99.49	97.0605' LT	TRAFFIC SIGNAL
505	1765892.2091	2225675.7540	19THST	99+65.33	54.269' LT	TRAFFIC SIGNAL
506	1765924.5858	2225675.3088	19THST	99+97.70	55.0593' LT	WATER VALVE

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
403	1765735.6303	2225780.4813	600.3274	19THST	98+09.87	52.1215' RT	RETAINING WALL, DISK

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO. _____	
	CHECKED	
	FILE NAME	
	NO. _____	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	



FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISOR -	DATE	SCALE = 40.0000' / in.	CHECKED -	REVISOR -	DATE
Default				Mar-10-2016 01:33:45 PM				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

19TH ST.
PLAN & PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	13
CONTRACT NO. 64K61				

ILLINOIS FED. AID PROJECT

Benchmark: Disk at North End of Retaining Wall at Southwest Corner of Culvert. Elev 600.33.

Existing Structure: Existing sheet pile wall is not associated with a Structure Number. Existing Wall was built in 2000 as FAP Route 308 Section (7W-2, 7W-3M, 7S-3 and 7-W3BR). The wall consists of driven PZ-27 Sheet Pile with a CIP Concrete Cap supporting a chain link fence. The existing wall is approximately 771'-3" long with a maximum exposed height of ±20'-2". Portions of the wall will be removed. Traffic to be detoured.

Salvage: Areas outside the proposed rehabilitation limits to be protected. No salvage for areas inside the proposed rehabilitation limits.

SCOPE OF WORK

1. Remove failed portion of Existing Wall, as shown.
2. Construct Proposed Wall with Tie Back System, as shown.
3. Construct Gabion Wall and Install Riprap, as shown.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Removal Details
- 4 Sheet Pile Wall Details
- 5 Tie Back Details
- 6 Concrete Cap and Fence Details
- 7 Gabion Wall Plan and Elevation
- 8 Gabion Wall Sections and Details
- 9-10 Soil Boring Logs

CONSTRUCTION SEQUENCE

1. Install Proposed Steel Sheet Piling Wall (Proposed Wall) behind Existing Steel Sheet Piling Wall (Existing Wall).
2. Install Proposed Steel Sheet Piling Anchor Wall (Anchor Wall).
3. Remove Existing Fence, Concrete Cap and Existing Wall to cut-off elevation specified.
4. During Existing Wall removal, excavate between Existing Wall and Proposed Wall.
5. At Proposed Wall tie-back locations, excavate between Proposed Wall and Anchor Wall. Excavate behind Anchor Wall.
6. Install the complete anchor tie-back system. At the storm sewer pipe, install the water to Proposed Wall.
7. Backfill Excavations.
8. Set Fence posts into the subgrade.
9. Complete top of Proposed Wall by installing Concrete Cap and Fence.
10. Complete Existing Wall removal and excavation as required.
11. Install Gabions. Slope Mattress, Weep Holes Cored and Storm Sewer.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims
Design Life: 75 Years

DESIGN STRESSES

FIELD UNITS (EXISTING CONSTRUCTION)

f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (Sheeting)

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

f_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (Sheeting) ASTM A572
f_y = 36,000 psi (Structural Steel) ASTM A36
f_y = 50,000 psi (Tie-Rod Steel) ASTM A572 Gr.50

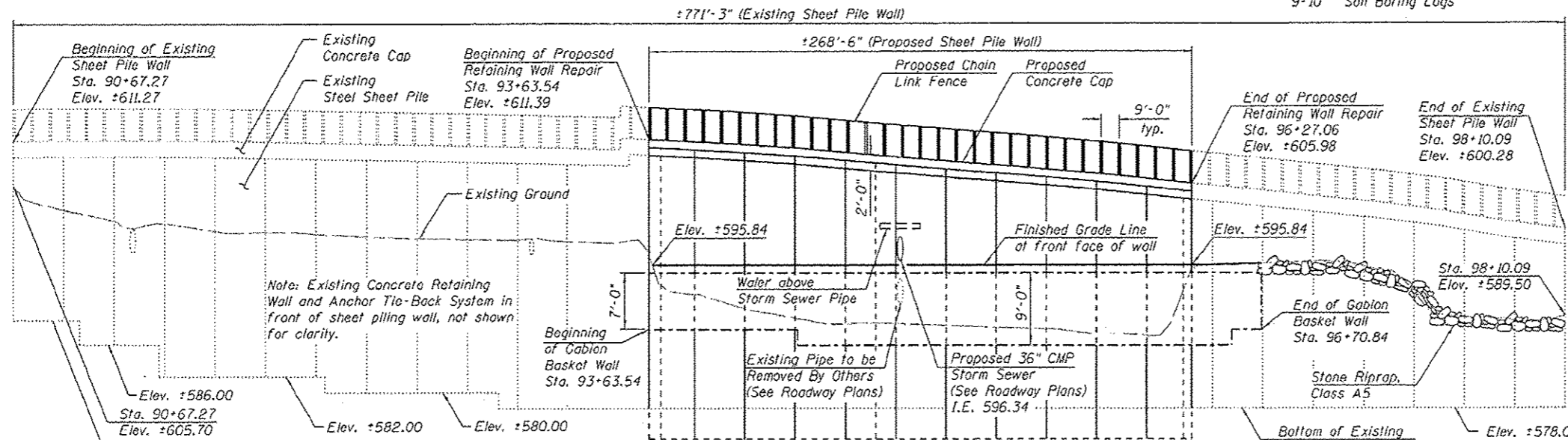
CURVE DATA

P.I. Sta. = 96+41.05
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D = 3°27'23"
R = 1,657.74'
T = 127.69'
L = 254.88'
E = 4.91'
P.C. Sta. = 95+13.36
P.T. Sta. = 97+68.24

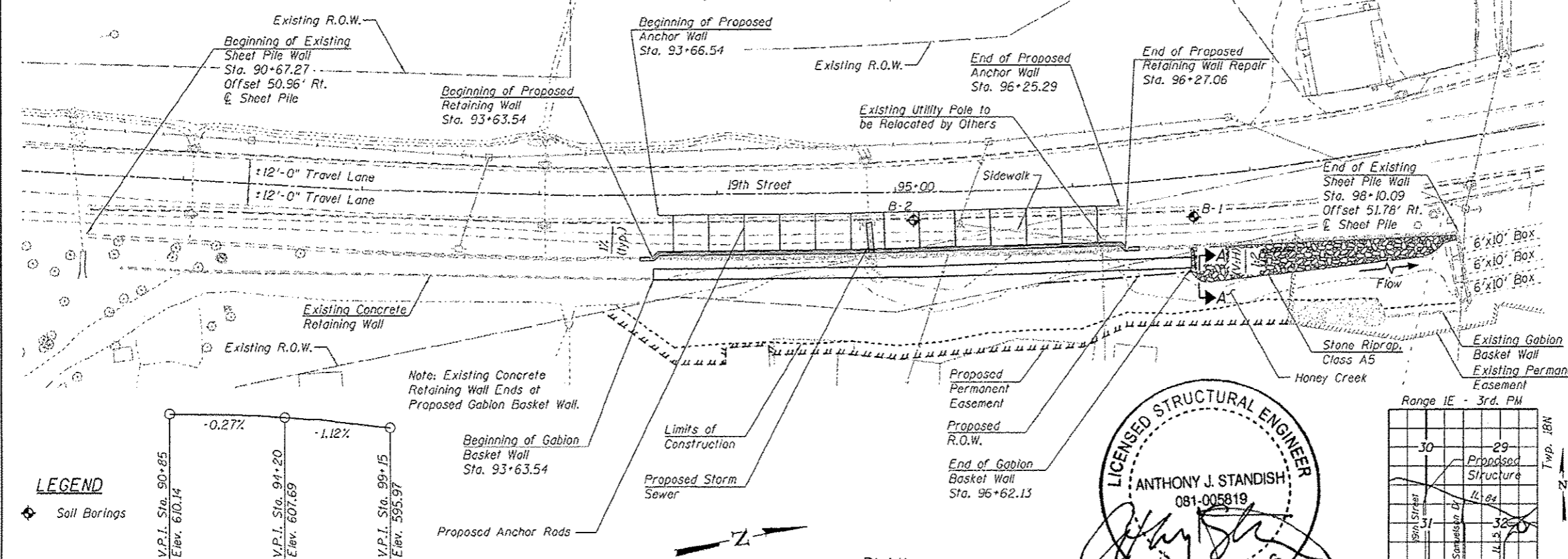
APPROVED
For Structural Adequacy Only

Anthony J. Standish
Engineer of Bridges & Structures

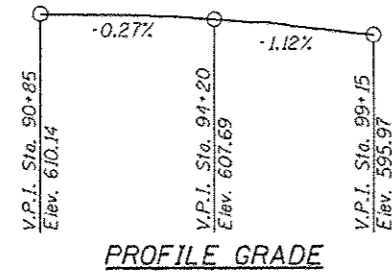
GENERAL PLAN & ELEVATION
19TH STREET
F.A.U. 5855 SECTION 113M
ROCK ISLAND COUNTY
STA. 93+63.54 TO STA. 96+27.06
STRUCTURE NO. 081-7004



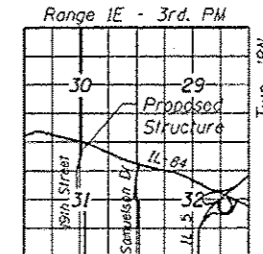
ELEVATION
(Looking West at Front Face of Wall)



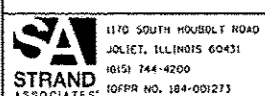
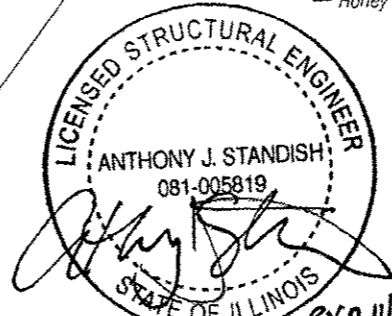
PLAN



PROFILE GRADE
(along 19th Street)



LOCATION SKETCH



USER NAME: brant	DESIGNED - RRD	REVISED
PLOT SCALE = 0:2.0000" = 1'	CHECKED - AJS	REVISED
PLOT DATE = 4/29/2016	DRAWN - B.F.	REVISED
	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 081-7004
SHEET NO. 1 OF 10 SHEETS

F.A.U. RTE. 5855	SECTION 113M	COUNTY ROCK ISLAND	TOTAL SHEETS 34	SHEET NO. 14
			CONTRACT NO. 64K61	
ILLINOIS FED. AID PROJECT				

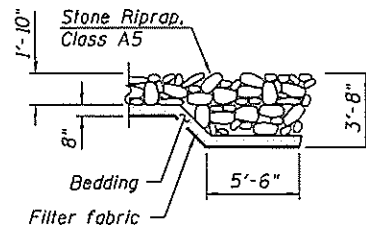
GENERAL NOTES

Calculated weight of Structural Steel AASHTO M270 Gr. 50 = 19,850 Pounds.
 Calculated weight of Structural Steel AASHTO M270 Gr. 36 = 30,020 Pounds.
 Total calculated weight of Structural Steel All Steel Types = 49,870 Pounds.
 All structural steel except plates and channels shall be AASHTO M270 Grade 50.
 Structural steel plates and channels may be AASHTO M270 Grade 36.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

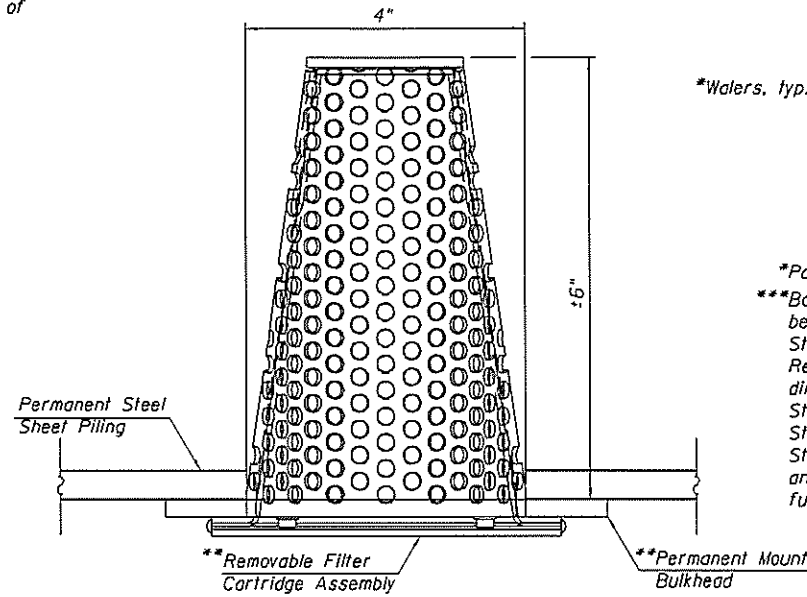
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Concrete Sealer shall be applied to the designated areas of the Concrete Cap.
 Weep holes shall be installed in accordance with special provision. Cost associated with creating hole shall be included in the cost of Weep Holes Cored.
 Backfill limits of excavation within 2'-0" of structures and beneath roadway with compacted Granular Backfill for Structures, paid as Granular Backfill for Structures. Remaining backfill outside those limits shall be provided as directed by Engineer and according to Section 502 of the Standard Specifications. Remaining backfill associated with Structure Excavation shall be included in the cost of Structure Excavation.

TOTAL BILL OF MATERIAL

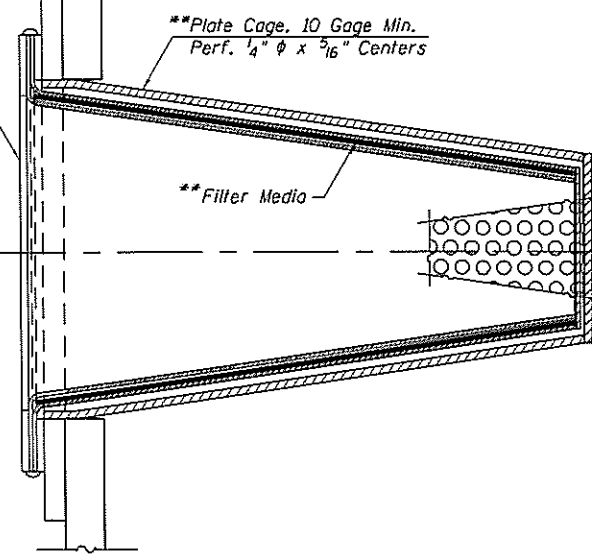
Item	Unit	Total
Stone Riprap, Class A5	Sq Yd	390
Filter Fabric	Sq Yd	890
Gabions	Cu Yd	467
Slope Mattress 12"	Sq Yd	260
Concrete Removal	Cu Yd	44
Structure Excavation	Cu Yd	2,530
Concrete Structures	Cu Yd	44
Furnishing and Erecting Structural Steel	LSUM	1
Reinforcement Bars, Epoxy Coated	Pound	3,940
Concrete Sealer	Sq Ft	1,980
Remove Sheet Piling	LSUM	1
Weep Holes Cored	Each	46
Permanent Steel Sheet Piling	Sq Ft	14,620
Granular Backfill for Structures	Cu Yd	1,810
Chain Link Fence, 4' Attached to Structure	Foot	297
Fence Removal	Foot	288



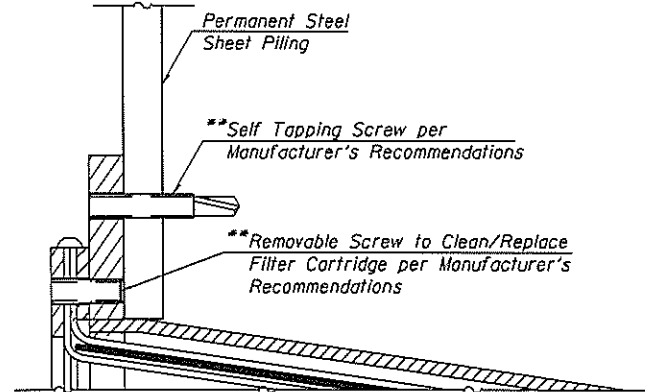
SECTION A-A



WEEP HOLE ASSEMBLY PLAN VIEW

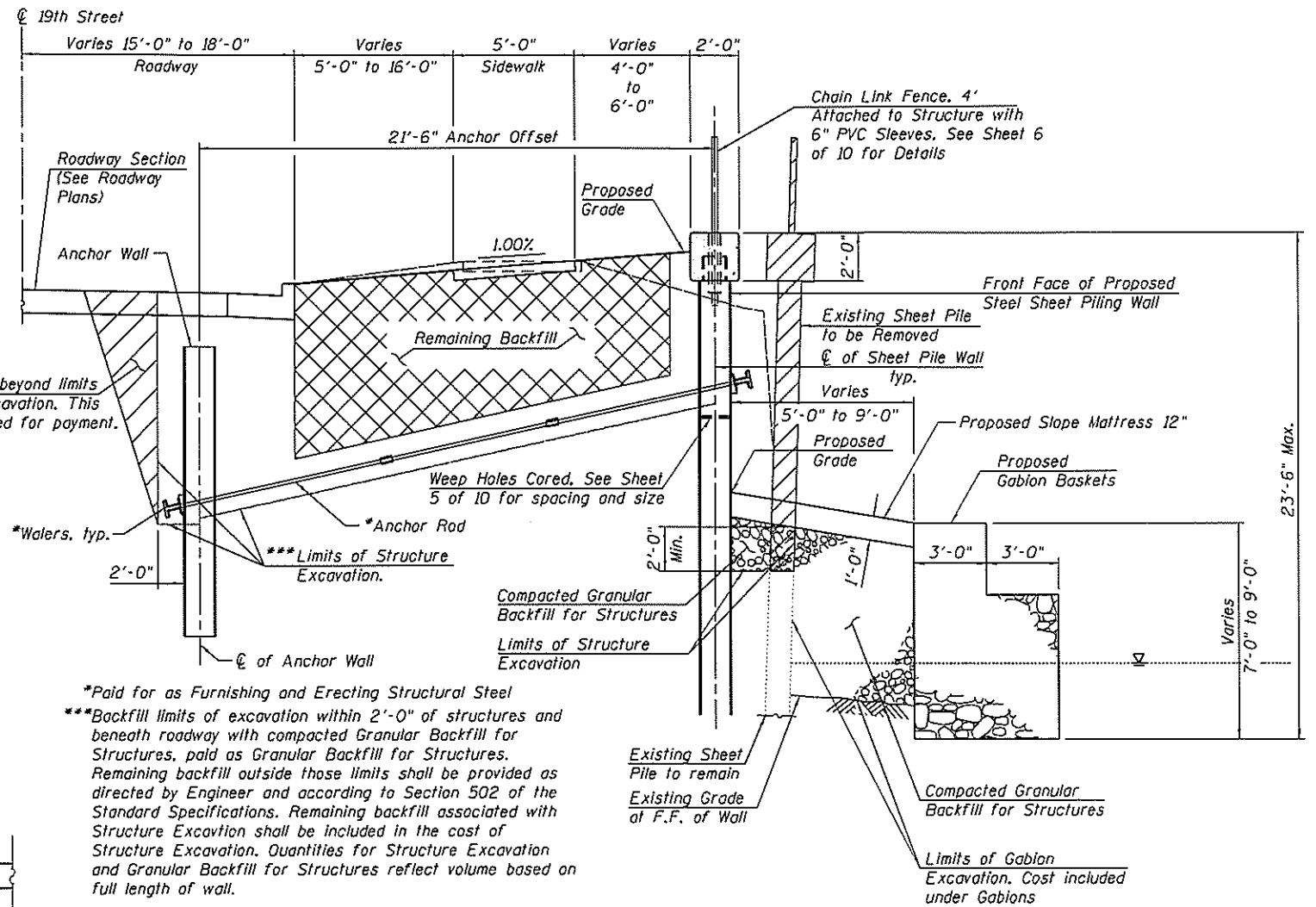


SECTION THRU WEEP HOLE ASSEMBLY



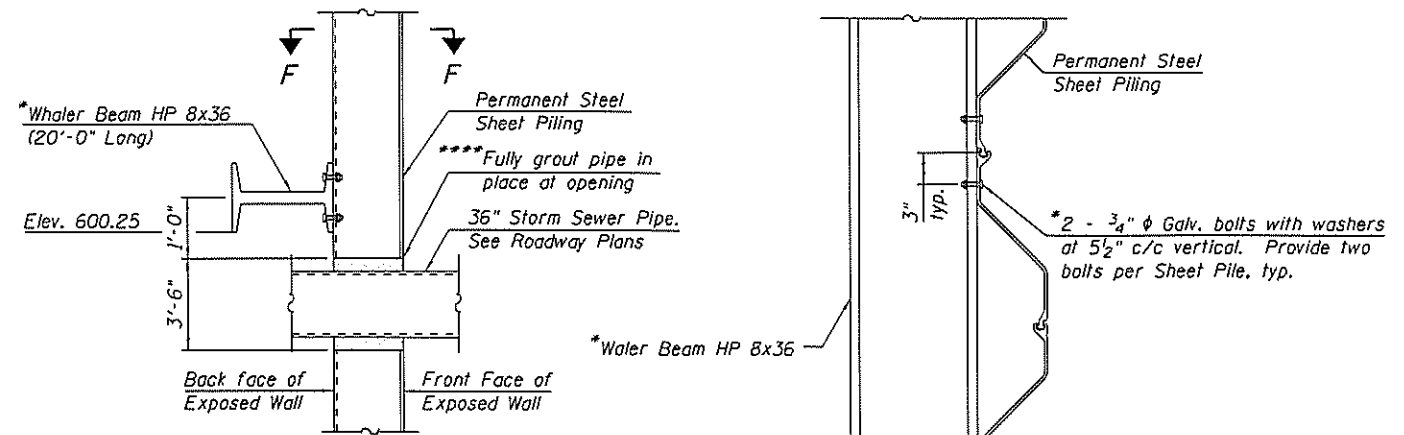
WEEP HOLE ASSEMBLY MOUNTING DETAIL

**Included in the cost of Weep Holes Cored



SECTION THRU SHEET PILE WALL

(Looking North)
(R.O.W. Not Shown)

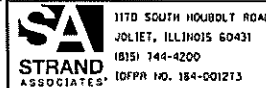


WALL PENETRATION WATER DETAIL

**** Note: Cut hole in Permanent Steel Sheet Piling for Storm Sewer Pipe. Cost of cutting hole in sheet piling and grouting pipe in place included in cost of Storm Sewer Pipe. See Roadway Plans.

SECTION F-F

FILE NAME = S:\JUL\51330-63795\6346\855\Struct\CA00_Sheets\081-7004-64K61-002-00.dgn



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 PLDT DATE = 5/10/2016

DESIGNED - RRD
 CHECKED - AJS
 DRAWN - BJF
 CHECKED - RRD

REVISED
 REVISED
 REVISED
 REVISED

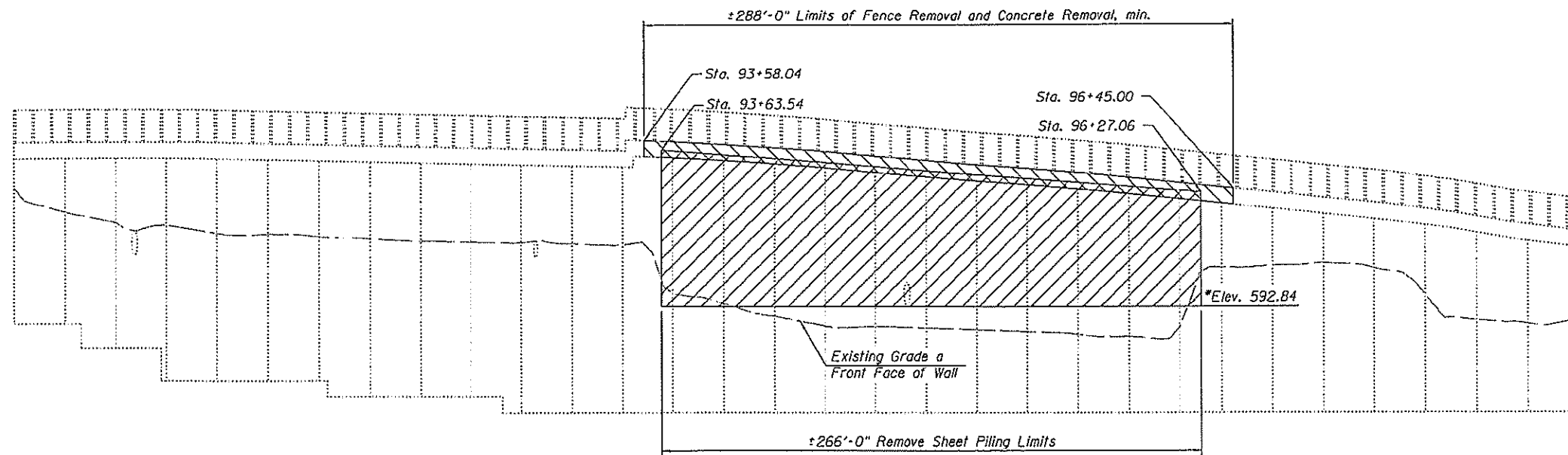
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL DATA
 STRUCTURE NO. 081-7004

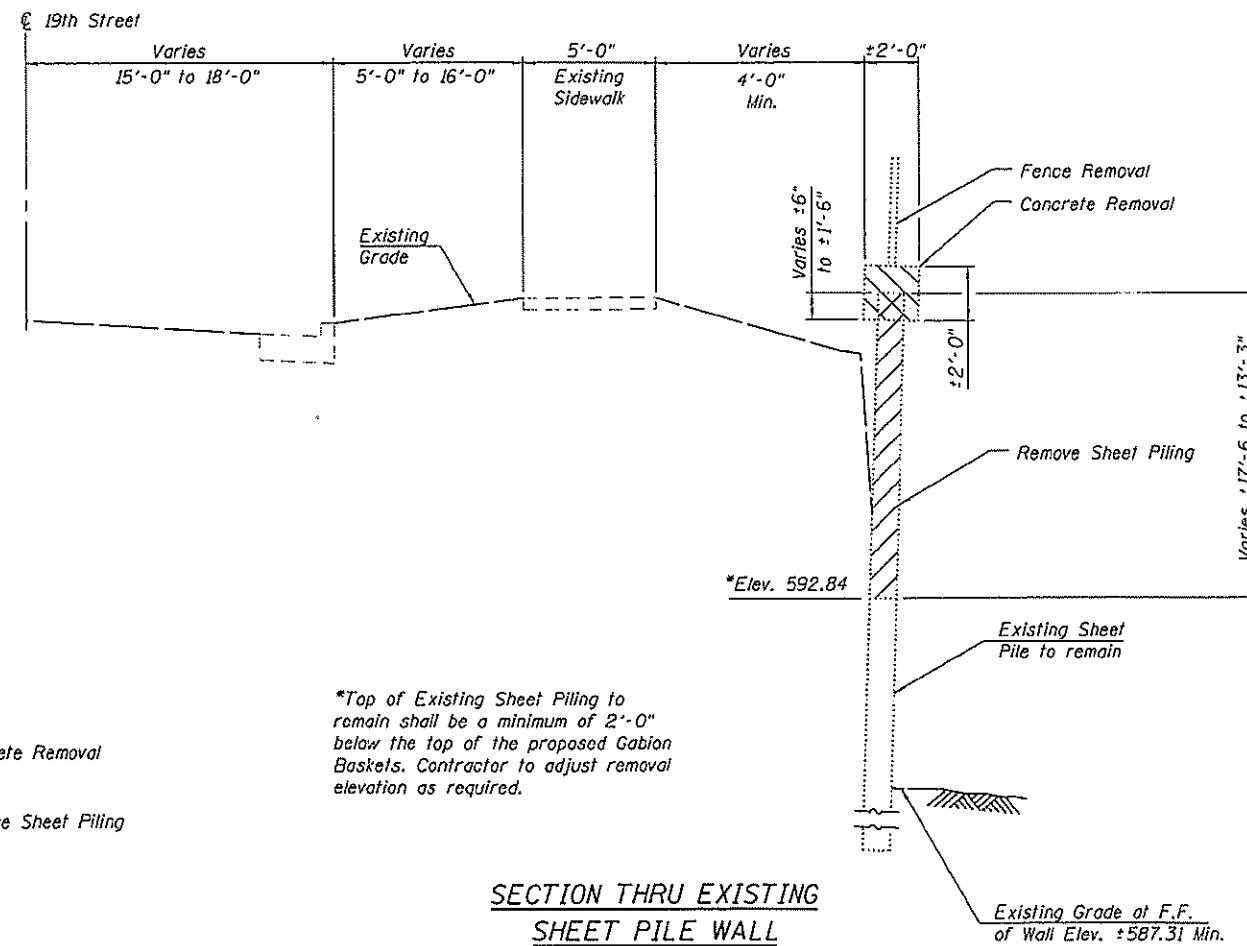
SHEET NO. 2 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	15
			CONTRACT NO. 64K61	



ILLINOIS FED. AID PROJECT



ELEVATION



Legend

-  Concrete Removal
-  Remove Sheet Piling

*Top of Existing Sheet Piling to remain shall be a minimum of 2'-0" below the top of the proposed Gabion Baskets. Contractor to adjust removal elevation as required.

SECTION THRU EXISTING SHEET PILE WALL

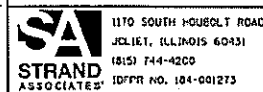
(Looking North)
(R.O.W. Not Shown)

Note:
Removal of PVC inserts and fence post anchorage attached to the existing concrete cap is included in the cost of Concrete Removal.
The Fence Removal quantity was adjusted in the Bill of Material to allow for removal to the nearest adjacent post.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	44
Remove Sheet Piling	L SUM	1
Fence Removal	Foot	288

FILE NAME: S:\1101182005-6295\6345\985\MicroStation\CADD\Sheet\031-780-64K61-002-REMOVAL.dgn



1110 SOUTH HOBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDFPR NO. 104-001273

USER NAME: brsonf
DESIGNED - RRD
CHECKED - AJS
DRAWN - BJF
CHECKED - RRD

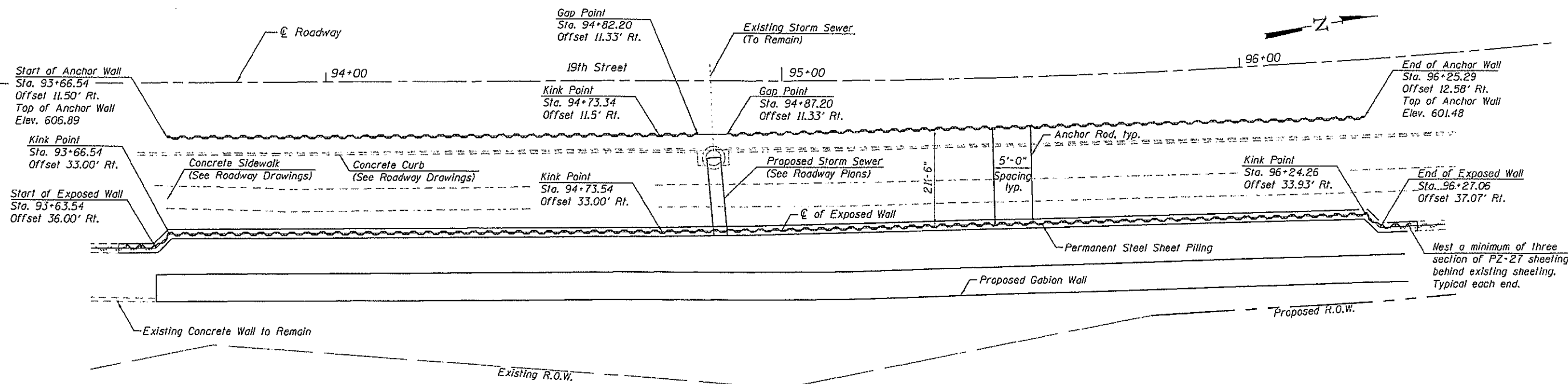
REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

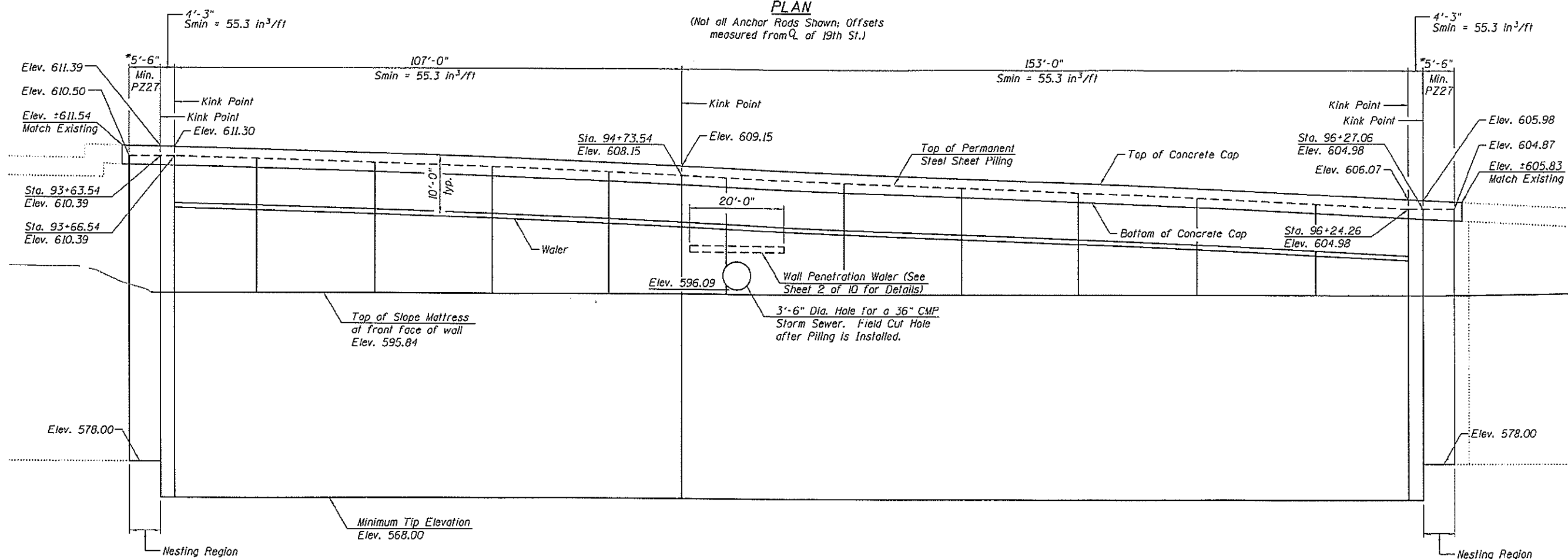
REMOVAL DETAILS
STRUCTURE NO. 081-7004

SHEET NO. 3 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64K61	



PLAN
(Not all Anchor Rods Shown; Offsets measured from Q of 19th St.)



ELEVATION
(Rotated into View)

Note:
Constructed lengths to be adjusted based on actual sheet pile sizes.
Interference is anticipated with existing steel sheet piling shear studs. Shear stud removal shall be included in the cost of Permanent Steel Sheet Piling.
*Three PZ-27 Sections Nested Min.

FILE NAME: S:\JUL46088-639\PROJECTS\081-7004\VAL\DETAILS.dgn

STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
CDPR NO. 104-001273

USER NAME: brantf	DESIGNED: RRD	REVISED:
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PLOT DATE: 4/28/2016	DRAWN: BJF	REVISED:
	CHECKED: RRD	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE WALL DETAILS
STRUCTURE NO. 081-7004

SHEET NO. 4 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	17
CONTRACT NO. 64K61			ILLINOIS FED. AID PROJECT	

NOTES

Permanent Steel Sheet Piling shall meet requirements of ASTM A572 Gr.50. Permanent Steel Sheet Piling (exposed and anchor wall) shall have a required section modulus meeting or exceeding 55.3 in³/ft, except at ends of wall where PZ-27 sheeling is required as shown on Sheet 4 of 10.

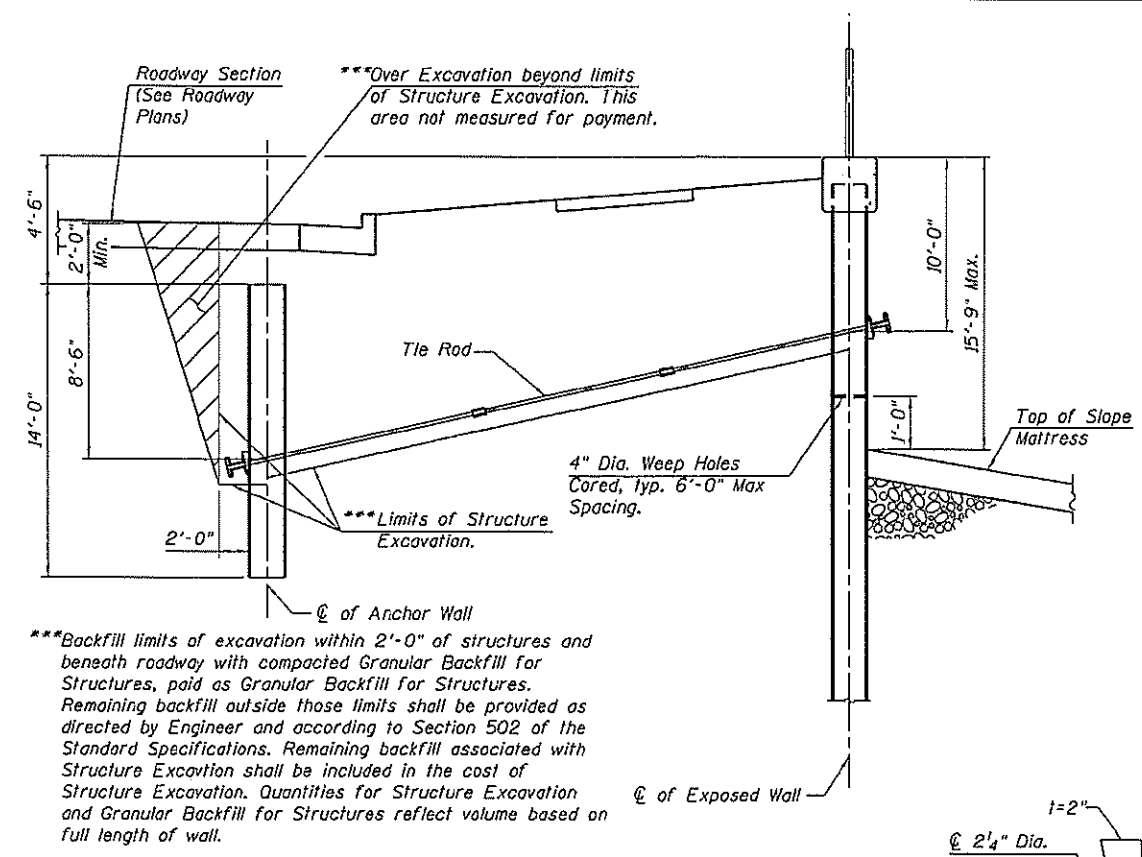
For backfilling and embankment outside Structure Excavation Limits, see Roadway Plans. If Contractor elects to use larger Permanent Steel Sheet Pile size, sheet pile concrete cap size shall increase as required to fill wall. New size shall be approved by Engineer and provided at no additional cost to contract.

All steel and associated hardware required for the installation of the waler and tie rods shall be included in the cost of Structure Excavation. These items include, but are not limited to turn buckle, tie rods, plates, nuts, MC sections, spacer, wedge plates and washers.

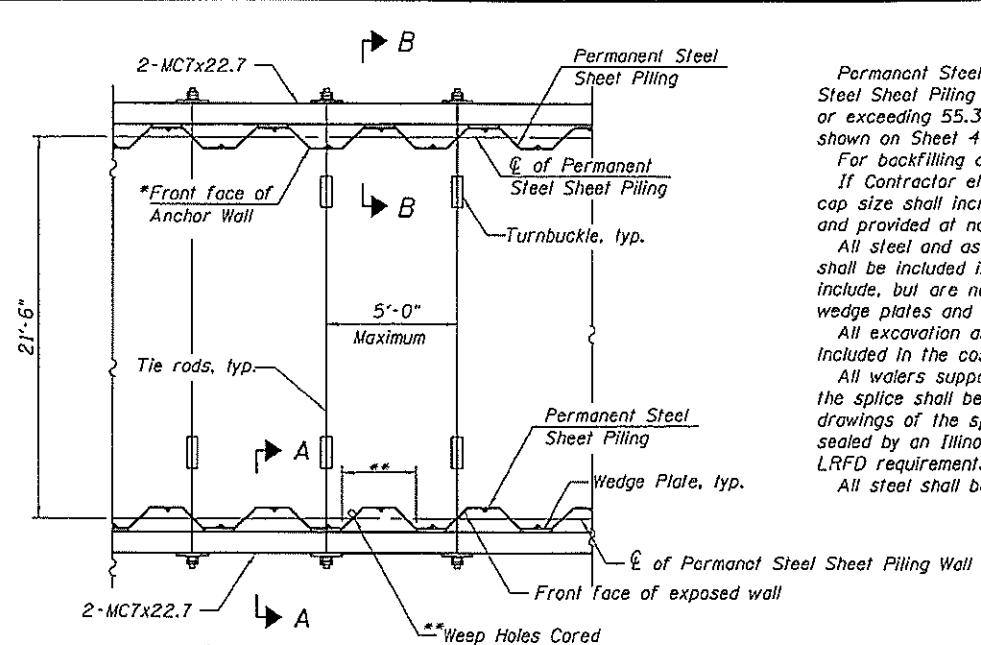
All excavation associated with the installation of the anchor rod and walers shall be included in the cost of Structure Excavation.

All walers supporting tie rods shall be spliced using a full moment splice. Location of the splice shall be determined by the Contractor. The contractor shall submit shop drawings of the splice detail to the Engineer for approval. The shop drawings shall be sealed by an Illinois Licensed Structural Engineer. The splice shall conform the AASHTO LRFD requirements.

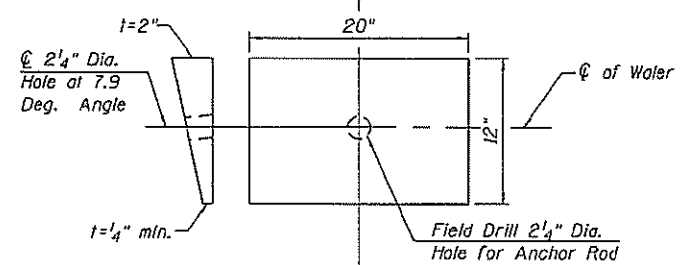
All steel shall be non-painted.



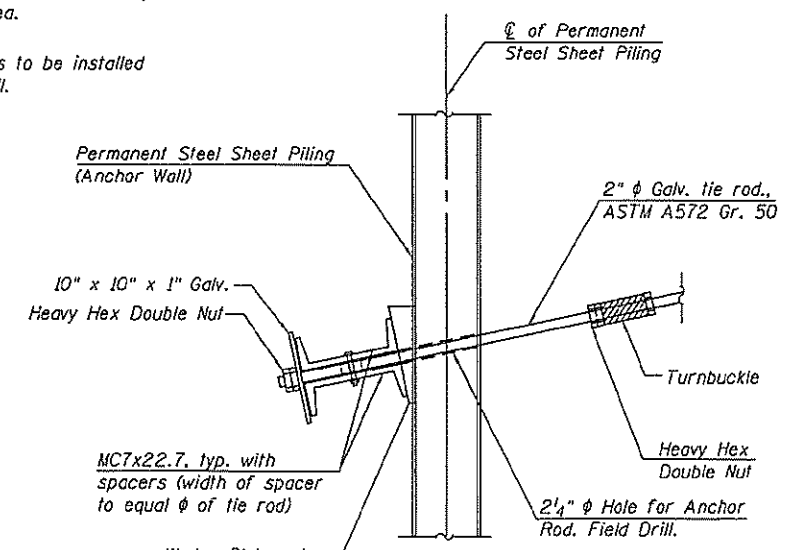
SECTION THRU SHEET PILE WALL
(Looking North)
(R.O.W. Not Shown)



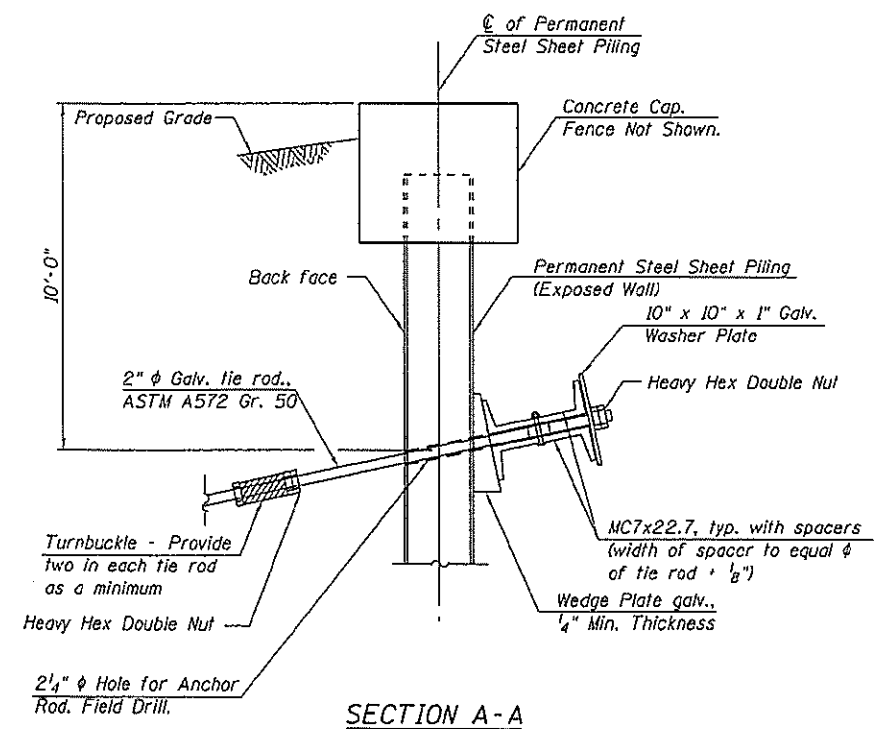
PLAN VIEW DETAIL



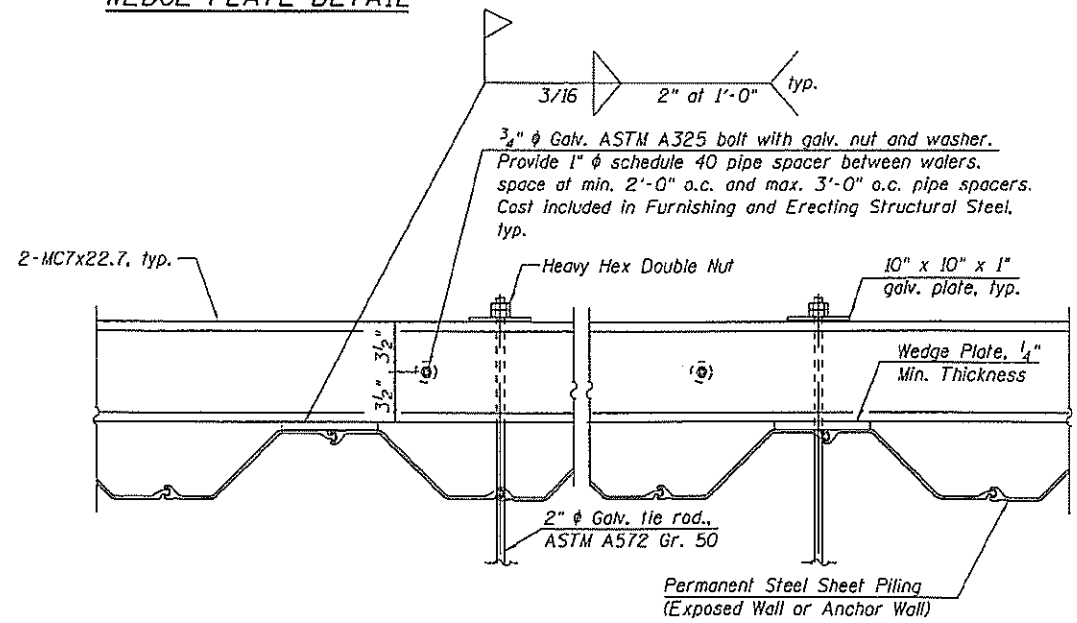
WEDGE PLATE DETAIL



SECTION B-B



SECTION A-A



WALER PLAN DETAIL

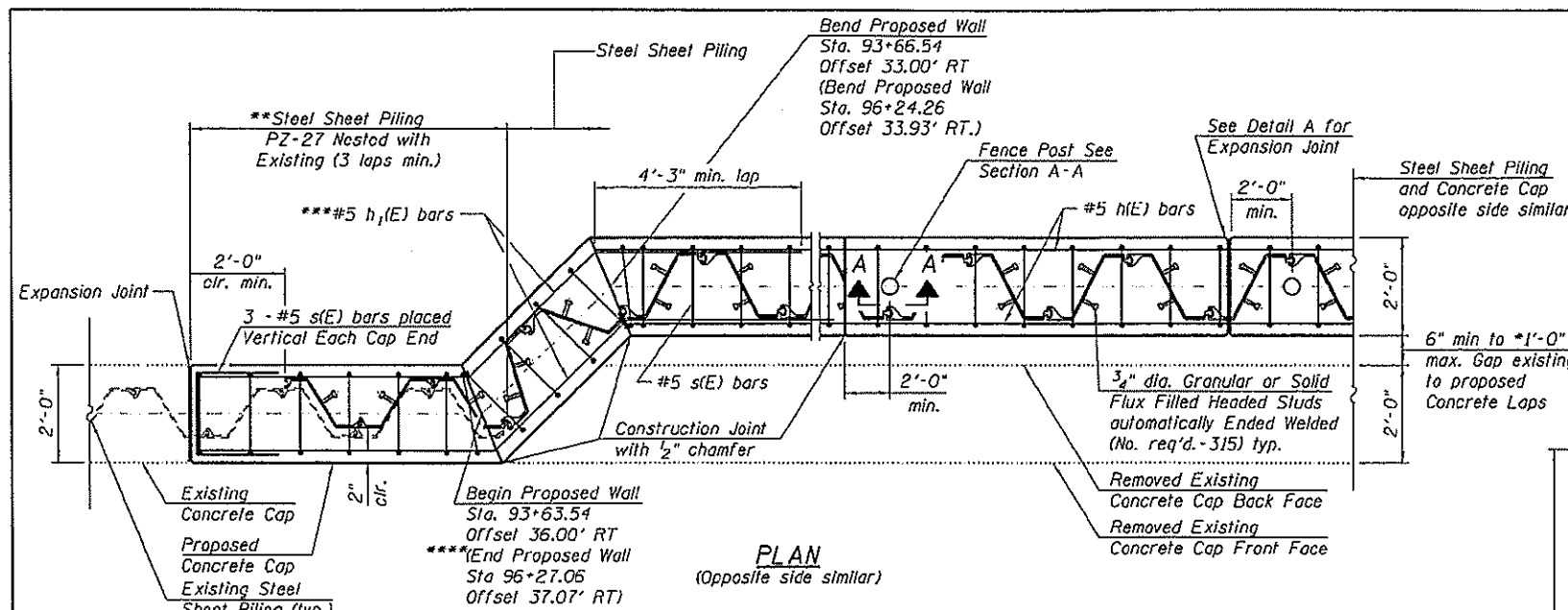
BILL OF MATERIAL

Item	Unit	Total
Structure Excavation	Cu Yd	2,232
Furnishing and Erecting Structural Steel	L Sum	1
Permanent Steel Sheet Piling	Sq Ft	14,620
Weep Holes Cored	Each	46
Granular Backfill for Structures	Cu Yd	1,390

Note:
Holes in Steel Sheet Piling and holes in Wedge Plate shall be included in the cost of Furnishing and Erecting Structural Steel.

FILE NAME: S:\104_V2308-6299\ACAD\BOS\Hercos\C660_Sheets\001-7084-6460-005-TIE.dwg

	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60433 10151 744-4200 10/FPR NO. 184-001273	USER NAME = brianf	DESIGNED - RRD	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE BACK DETAILS STRUCTURE NO. 081-7004 SHEET NO. 5 OF 10 SHEETS	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0:2.0000 "/> <td>CHECKED - AJS</td> <td>REVISIONS</td> <td>5855</td> <td>113M</td> <td>ROCK ISLAND</td> <td>34</td> <td>18</td>	CHECKED - AJS	REVISIONS	5855			113M	ROCK ISLAND	34	18	
	PLOT DATE = 4/28/2016	DRAWN - BJF	REVISIONS	CONTRACT NO. 64K61							
		CHECKED - RRD	REVISIONS	ILLINOIS FED. AID PROJECT							

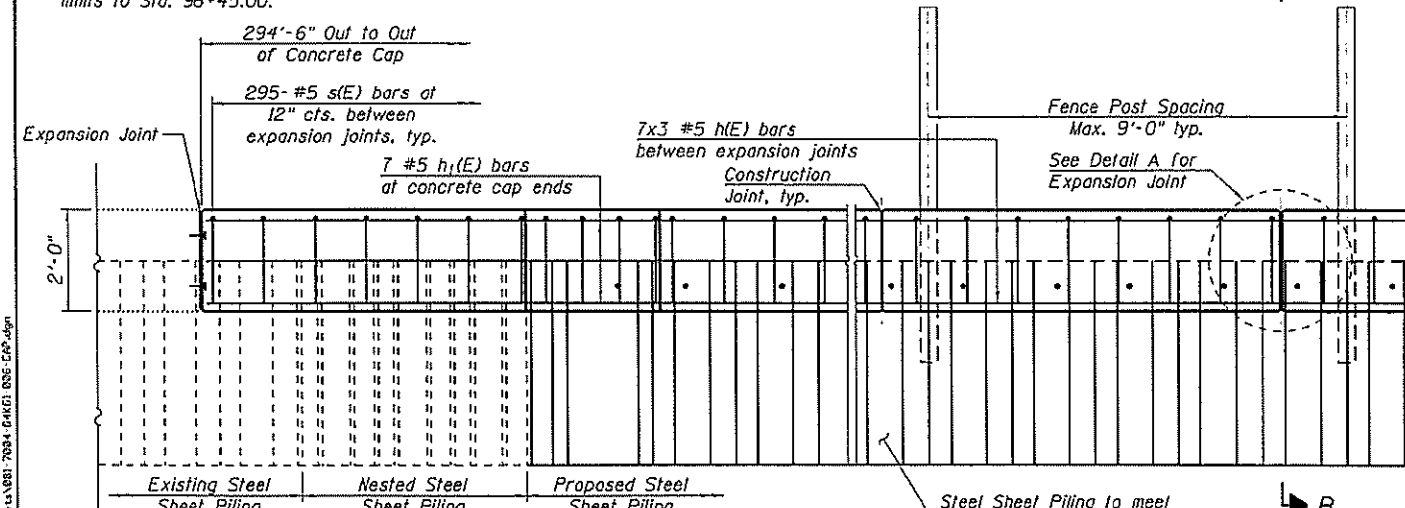


*All stations and offsets are based on centerline of proposed Steel Sheet Piling using 1'-0" gap existing to proposed concrete cap.

**3 Sheets min. of PZ-27 shall be nested into the existing Steel Sheet Piling prior to begin and end station of wall for the tie-in.

***Bend h₁(E) bars to required lengths and skew based on proposed steel sheet piling constructed location.

****End of Proposed Wall at Bend called out. End limits to Sta. 96+45.00.



Notes:

Construction Joints max. spacing is 30'-1/2".

Expansion Joints max. spacing is 90'-1/2".

Existing Steel Sheet Piling are PZ-27.

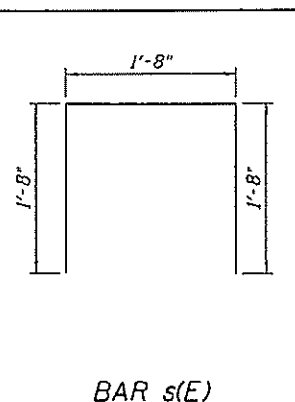
Cost of shear connectors (Granular or flux filled stud), cement nails, and 1/2" premolded joint filler is included in the cost of Concrete Structures.

Proposed chain link fabric to be connect to existing, to the satisfaction of the Engineer in the field. Cost included in Chain Link Fence, 4' Attached to Structure. Quantity was adjusted in the Bill of Materials to allow for installation to the nearest adjacent post.

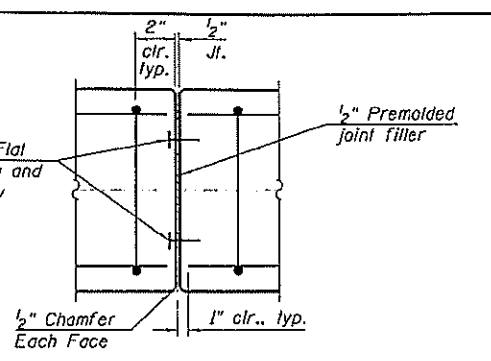
Concrete Sealer shall be applied to all faces of the concrete cap outside the limits of the sheet pile.

Interference is anticipated with existing steel sheet piling shear studs. Shear stud removal shall be included in the cost of Permanent Steel Sheet Piling.

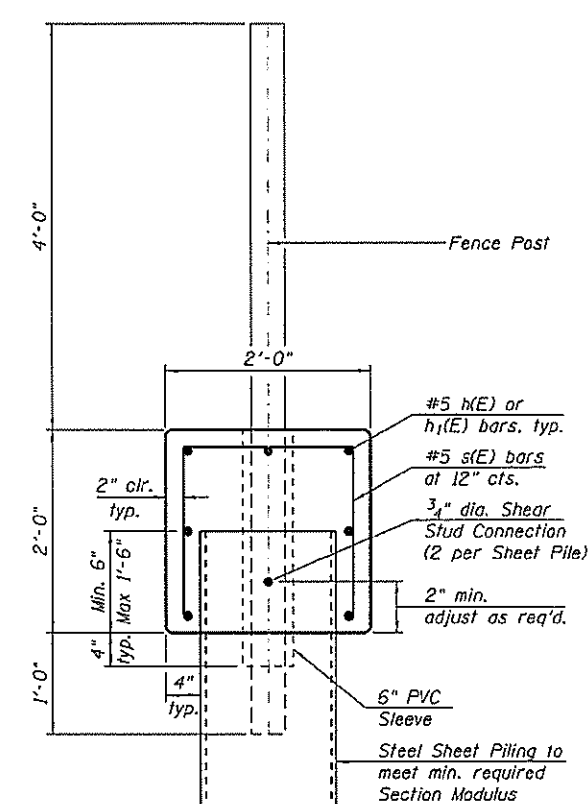
ELEVATION



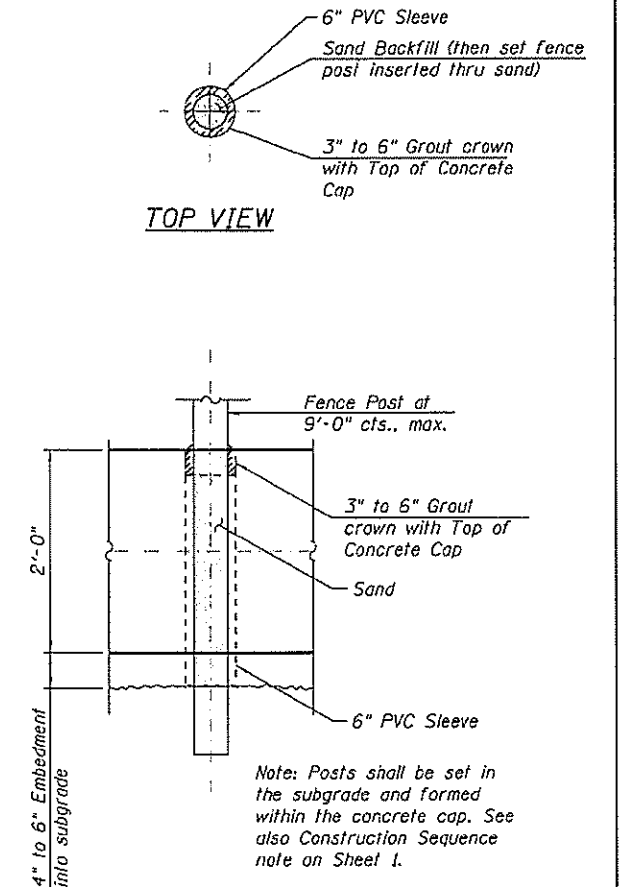
BAR s(E)



DETAIL A



SECTION B-B



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	63	#5	32'-11"	—
h ₁ (E)	14	#5	14'-0"	—
s(E)	301	#5	5'-0"	□
Reinforcement Bars, Epoxy Coated			Pound	3,940
Concrete Structures			Cu. Yd.	44
Concrete Sealer			Sq. Ft	1,980
Chain Link Fence, 4' Attached to Structure			Foot	297

MIN. BAR LAP
#5 Bar = 4'-3"

	1170 SOUTH HOWLDT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 IDFPR NO. 181-001273	USER NAME = brmf	DESIGNED - BRL	REVISED
		PLOT SCALE = 0.25000 1" = 25'	CHECKED - AJS	REVISED
		PLOT DATE = 4/20/2016	DRAWN - BJF	REVISED
			CHECKED - BRL	REVISED

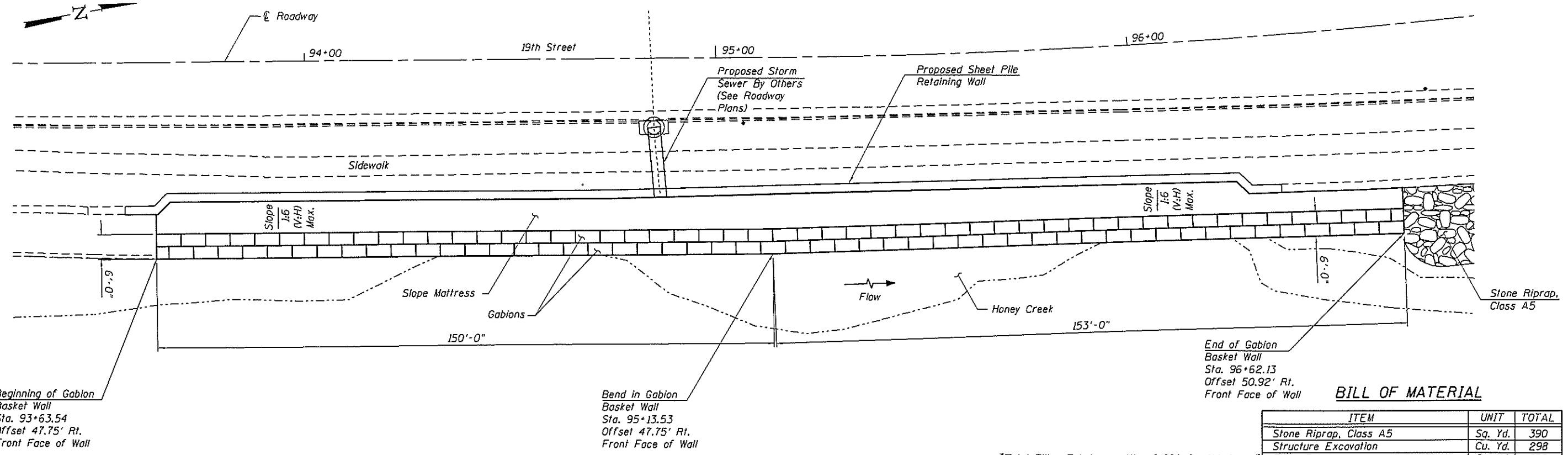
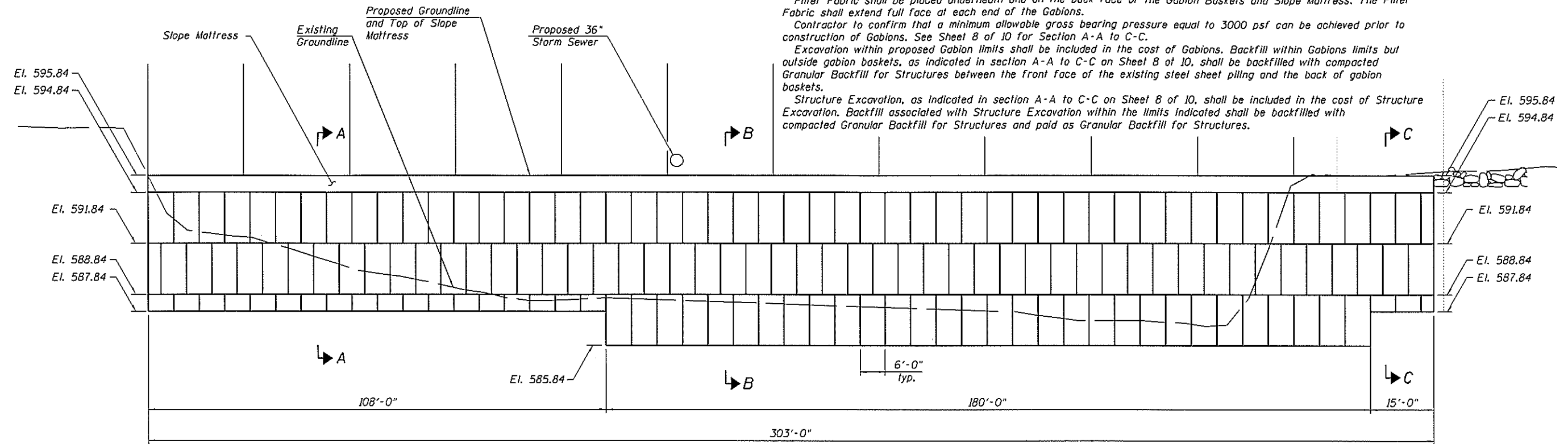
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE CAP AND FENCE DETAILS
STRUCTURE NO. 081-7004**

SHEET NO. 6 OF 10 SHEETS

F.A.U. RTE. 5855	SECTION 113M	COUNTY ROCK ISLAND	TOTAL SHEETS 34	SHEET NO. 19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64K61	

Notes:
 Filter Fabric shall be placed underneath and on the back face of the Gabion Baskets and Slope Mattress. The Filter Fabric shall extend full face at each end of the Gabions.
 Contractor to confirm that a minimum allowable gross bearing pressure equal to 3000 psf can be achieved prior to construction of Gabions. See Sheet 8 of 10 for Section A-A to C-C.
 Excavation within proposed Gabion limits shall be the cost of Gabions. Backfill within Gabions limits but outside gabion baskets, as indicated in section A-A to C-C on Sheet 8 of 10, shall be backfilled with compacted Granular Backfill for Structures between the front face of the existing steel sheet piling and the back of gabion baskets.
 Structure Excavation, as indicated in section A-A to C-C on Sheet 8 of 10, shall be included in the cost of Structure Excavation. Backfill associated with Structure Excavation within the limits indicated shall be backfilled with compacted Granular Backfill for Structures and paid as Granular Backfill for Structures.



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	390
Structure Excavation	Cu. Yd.	298
Filter Fabric	Sq. Yd.	890
Gabions	Cu. Yd.	467
Slope Mattress 12"	Sq. Yd.	260
Granular Backfill for Structures	Cu. Yd.	420

*Total Filter Fabric quantity of 890 Sq. Yd. is summation of: 390 Sq. Yd. associated with Stone Riprap, Class A5 placement and 500 Sq. Yd. associated with Gabions placement.

FILE NAME = S:\JULIEN\2016-05\2199\2199.dwg

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200
 IDPR NO. 184-001213

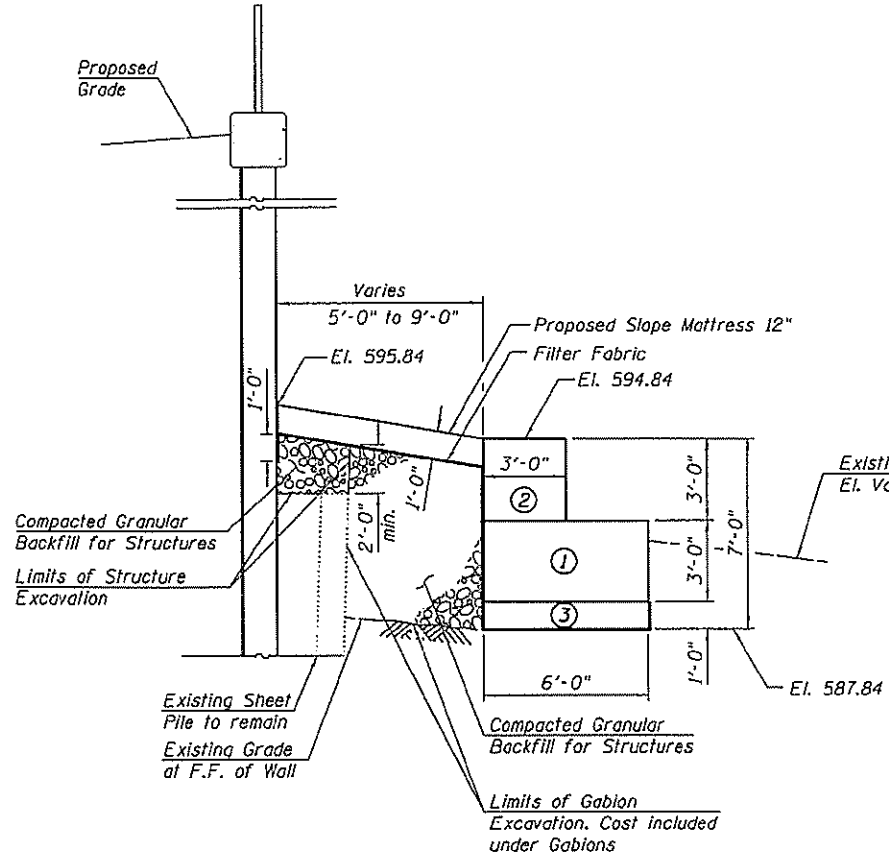
USER NAME = brianf	DESIGNED - RRD	REVISED
PLDT SCALE = 0:2.0000 1" = 20'	CHECKED - AJS	REVISED
PLDT DATE = 5/10/2016	DRAWN - BJF	REVISED
	CHECKED - RRD	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

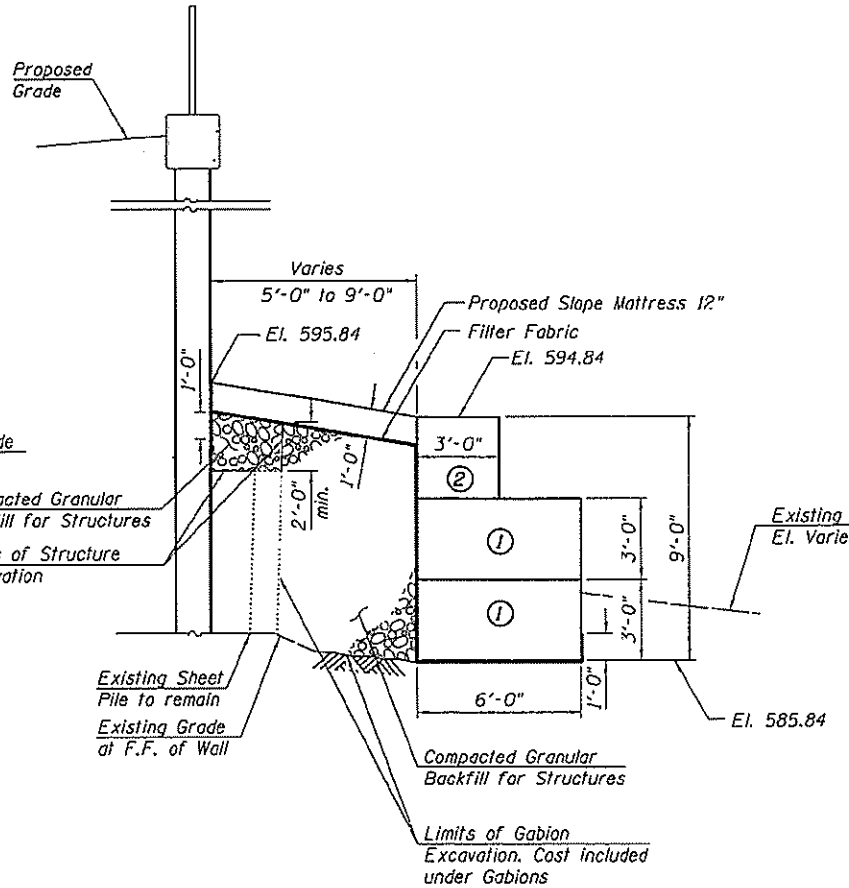
**GABION WALL PLAN AND ELEVATION
 STRUCTURE NO. 081-7004**

SHEET NO. 7 OF 10 SHEETS

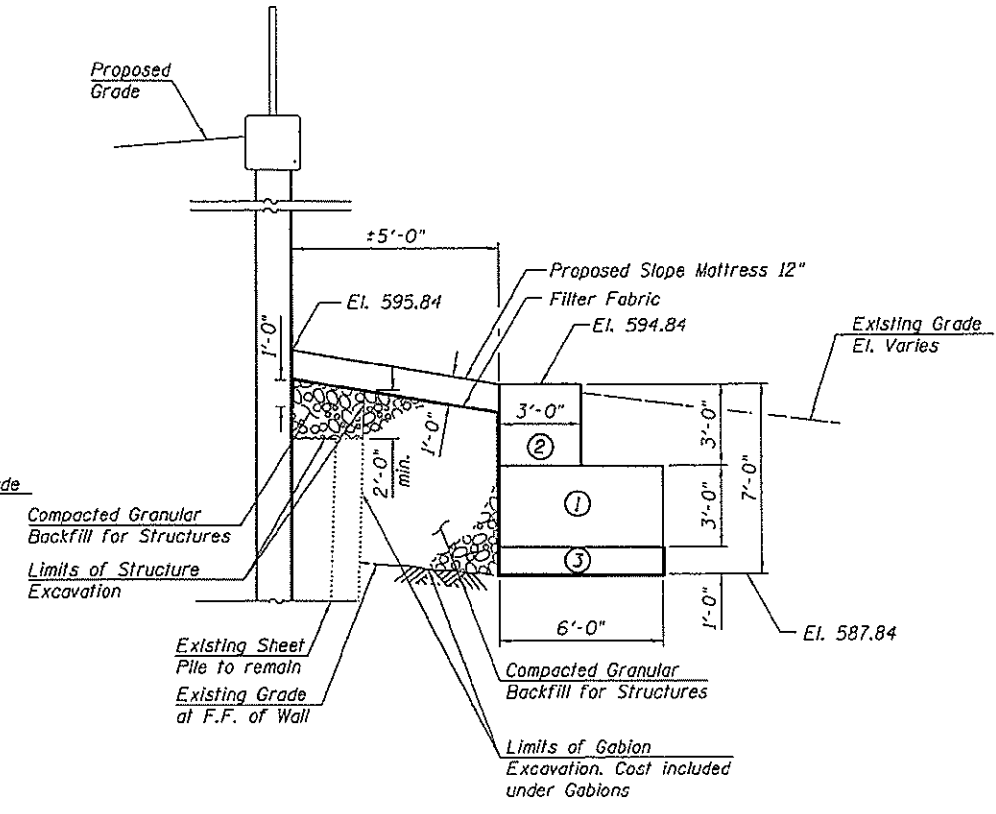
F.A.U. RTE. 5855	SECTION 113M	COUNTY ROCK ISLAND	TOTAL SHEETS 34	SHEET NO. 20
ILLINOIS FED. AID PROJECT				



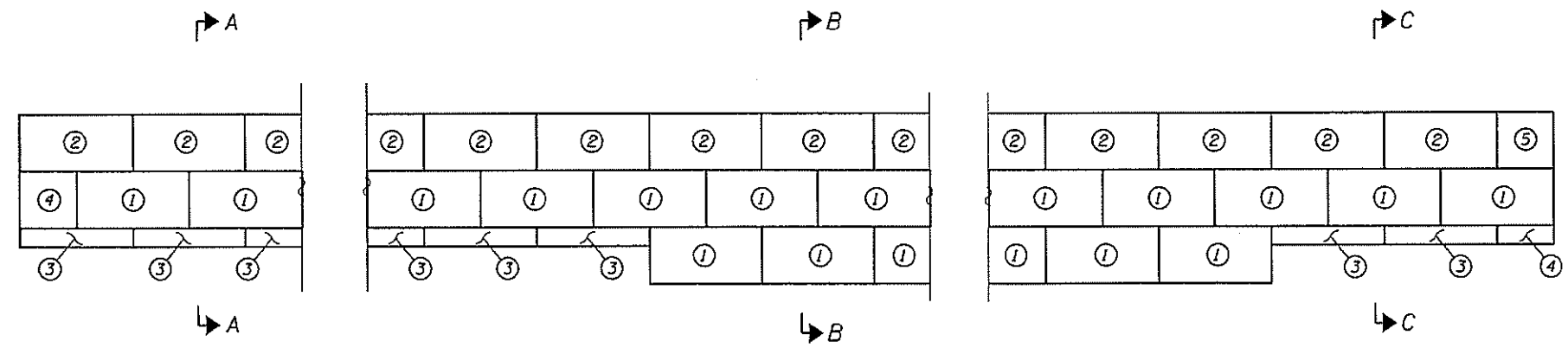
SECTION A-A



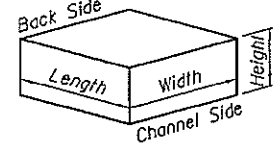
SECTION B-B



SECTION C-C



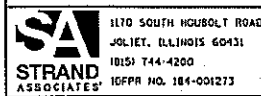
GABION WALL FRONT FACE
Looking East



GABION SIZE TABLE

Gabion	Width	Length	Height
①	6'-0"	6'-0"	3'-0"
②	6'-0"	3'-0"	3'-0"
③	6'-0"	6'-0"	1'-0"
④	3'-0"	6'-0"	1'-0"
⑤	3'-0"	3'-0"	3'-0"

FILE NAME = S:\JUL 15 2016 - 5:39 PM - 639163416\B55\Inter-on\CADD\Sheet\881-7894-6461-0085-C6BDET.dgn



1170 SOUTH HOLSOLT ROAD
JOLIET, ILLINOIS 60431
18151 744-4200
IFPPR NO. 181-001273

USER NAME = brianf	DESIGNED - RRD	REVISED
	CHECKED - AJS	REVISED
PLOT SCALE = 0:12.0000 1" = 12'-0"	DRAWN - BJF	REVISED
PLOT DATE = 4/28/2016	CHECKED - RRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GABION WALL SECTIONS AND DETAILS
STRUCTURE NO. 081-7004
SHEET NO. 8 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	21
CONTRACT NO. 64K61				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 3/24/14

ROUTE FAP 308 DESCRIPTION C92-122-99 Retaining Wall LOGGED BY W. Garza

SECTION (7W-2, 7W-3)M & TS-3 & 7-W3-BR LOCATION Hampton Twp. - 31NW, SEC., TWP. 18N, RNG. 1E

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
BORING NO. <u>B-1</u>	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station <u>+900</u>	T	W	Qu	S	First Encounter <u>69.1</u> ft ∇	H	S	Qu	T
Offset <u>16.50ft Rt EOP</u>	H	S		T	Upon Completion <u>79.1</u> ft ∇				
Ground Surface Elev. <u>101.1</u> ft	(ft)	(/ft)	(tsf)	(%)	After _____ Hrs.	(ft)	(/ft)	(tsf)	(%)

MEDIUM brown dirty fine SAND			0.5	12	VERY STIFF gray TILL (continued)	80.10	7	3.5	14
			P				10	B	
STIFF dark brown LOAM	99.10	8			VERY STIFF gray TILL		6		
		7	2.0	22			8	2.9	14
	97.60	10	P			77.60	13	B	
VERY STIFF light brown SILTY CLAY LOAM TILL		5			VERY STIFF gray TILL		4		
		3	2.1	14			8	3.1	14
	95.10	6	P			75.10	12	B	
VERY STIFF tan SILTY CLAY TILL		5			VERY STIFF gray TILL		5		
		7	2.8	15			9	2.9	13
	92.60	10	P			72.60	12	B	
VERY STIFF gray TILL		5			HARD olive green CLAY TILL with SAND lens		5		
		7	2.9	14			11	5.8	13
	90.10	10	B			70.10	13	B	
VERY STIFF gray TILL		5			HARD gray bottom 6" SANDY LOAM, top 12" clean medium coarse SAND		0		
		7	2.5	14			4	4.0	11
	87.60	10	B			67.60	25	P	
VERY STIFF gray TILL		4			HARD gray SANDY LOAM		27		
		7	2.9	14			28	4.2	12
	85.10	9	B			64.60	51	S	
VERY STIFF gray TILL		5			Wash		5		
		7	2.5	16	VERY DENSE gray fine SAND		22		
	82.60	11	B			62.60	40		
VERY STIFF gray TILL		4			VERY DENSE gray fine SAND		12		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

Soil Boring Station 0+900 = 96+70.68 Plan Station
 Plan Elevation = Soil Boring Log Elevation + 504.88



SOIL BORING LOG

Date 3/24/14

ROUTE FAP 308 DESCRIPTION C92-122-99 Retaining Wall LOGGED BY W. Garza

SECTION (7W-2, 7W-3)M & TS-3 & 7-W3-BR LOCATION Hampton Twp. - 31NW, SEC., TWP. 18N, RNG. 1E

COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station _____	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
BORING NO. <u>B-1</u>	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station <u>+900</u>	T	W	Qu	S	First Encounter <u>69.1</u> ft ∇	H	S	Qu	T
Offset <u>16.50ft Rt EOP</u>	H	S		T	Upon Completion <u>79.1</u> ft ∇				
Ground Surface Elev. <u>101.1</u> ft	(ft)	(/ft)	(tsf)	(%)	After _____ Hrs.	(ft)	(/ft)	(tsf)	(%)

VERY DENSE gray fine SAND (continued)			22						
			28						
	59.60								
HARD gray CLAY LOAM		7							
		14	7.6	15					
	57.10	23	B						
VERY STIFF light gray weathered SHALE		15							
		12	3.3	13					
	55.10	45	S						
VERY DENSE light gray SHALE		40							
		50							
	52.60	45							
End of Boring									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

FILE NAME = S:\JULIEN\ESR\PROJECTS\ESR\MicroStation\CADD\Sheets\BRI-7804-6461-2014-SBL.dgn

1170 SOUTH HOBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200 (815) 744-4200 IDPFR NO. 184-001213	USER NAME = <u>brant</u>	DESIGNED - <u>RRD</u>	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOG (SHEET 1 OF 2) STRUCTURE NO. 081-7004	F.A.U. RTE. <u>5855</u>	SECTION <u>113M</u>	COUNTY <u>ROCK ISLAND</u>	TOTAL SHEETS <u>34</u>	SHEET NO. <u>22</u>
	PLOT SCALE = <u>0:2.0000 1" = 10'</u>	CHECKED - <u>AJS</u>	REVISED			SHEET NO. <u>9</u> OF <u>10</u> SHEETS	ILLINOIS FED. AID PROJECT			
	PLOT DATE = <u>4/28/2016</u>	DRAWN - <u>BJF</u>	REVISED			CONTRACT NO. <u>64K61</u>				
		CHECKED - <u>RRD</u>	REVISED							



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 3/25/14

ROUTE FAP 308 DESCRIPTION C92-122-99 Retaining Wall LOGGED BY W. Garza
SECTION (7W-2, 7W-3)M & TS-3 & 7-W3-BR LOCATION Hampton Twp. - 31NW, SEC. , TWP. 18N, RNG. 1E
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	DEPTH ft	BLOW S	UCS Qu	MOIST T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	DEPTH ft	BLOW S	UCS Qu	MOIST T	Soil Description
			0.5 P	19				80.00	5	2.5	15	VERY STIFF gray TILL (continued)
	99.00	7	4.0 P	21					4	3.3	14	VERY STIFF gray TILL
	97.60	6	4.0 P	21				77.50	6	3.3	14	VERY STIFF gray TILL
		5							10	B		
		3	2.8 P	17					4	2.5	15	VERY STIFF light gray SILTY LOAM
	95.00	5						75.00	6	B		
		7							10	B		
		2	0.8 P	30					5	3.1	15	VERY STIFF gray TILL
	92.50	3						72.50	7	B		
		4							11	B		
		3	1.3 P	20					5	3.3	14	VERY STIFF tan SILTY LOAM
	90.00	3						70.00	10	B		
		6							13	B		
		2	1.4 P	19					7	2.9	15	VERY STIFF tan TILL
	87.50	3						67.50	9	B		
		5							13	B		
		4	2.3 B	16					7	5.6	17	VERY STIFF tan TILL
	85.00	5						65.00	8	B		HARD dark gray CLAY LOAM TILL with SAND lens
		8							13	B		
		4	2.7 B	14					12	3.9	13	VERY STIFF gray TILL
	82.50	5						62.50	14	S		VERY STIFF gray SANDY LOAM
		9							23	S		
		4							10			VERY STIFF gray TILL
	-20							-40				DENSE tan dirty SANDY GRAVEL

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Soil Boring Station 0+850 = 95+06.64 Plan Station
Plan Elevation = Soil Boring Log Elevation + 504.88



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 3/25/14

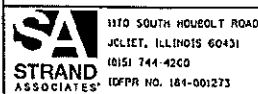
ROUTE FAP 308 DESCRIPTION C92-122-99 Retaining Wall LOGGED BY W. Garza
SECTION (7W-2, 7W-3)M & TS-3 & 7-W3-BR LOCATION Hampton Twp. - 31NW, SEC. , TWP. 18N, RNG. 1E
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	DEPTH ft	BLOW S	UCS Qu	MOIST T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	DEPTH ft	BLOW S	UCS Qu	MOIST T	Soil Description
								60.00	26			DENSE tan dirty SANDY GRAVEL (continued)
									24			
									40			VERY DENSE tan SANDY GRAVEL with bottom 6" SHALE
								57.50	50			
									15			
									45	100/3		VERY DENSE gray SHALE
								55.00				
												End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

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1170 SOUTH HOWEOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
IDPR NO. 181-001273

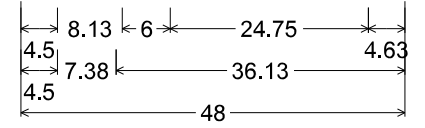
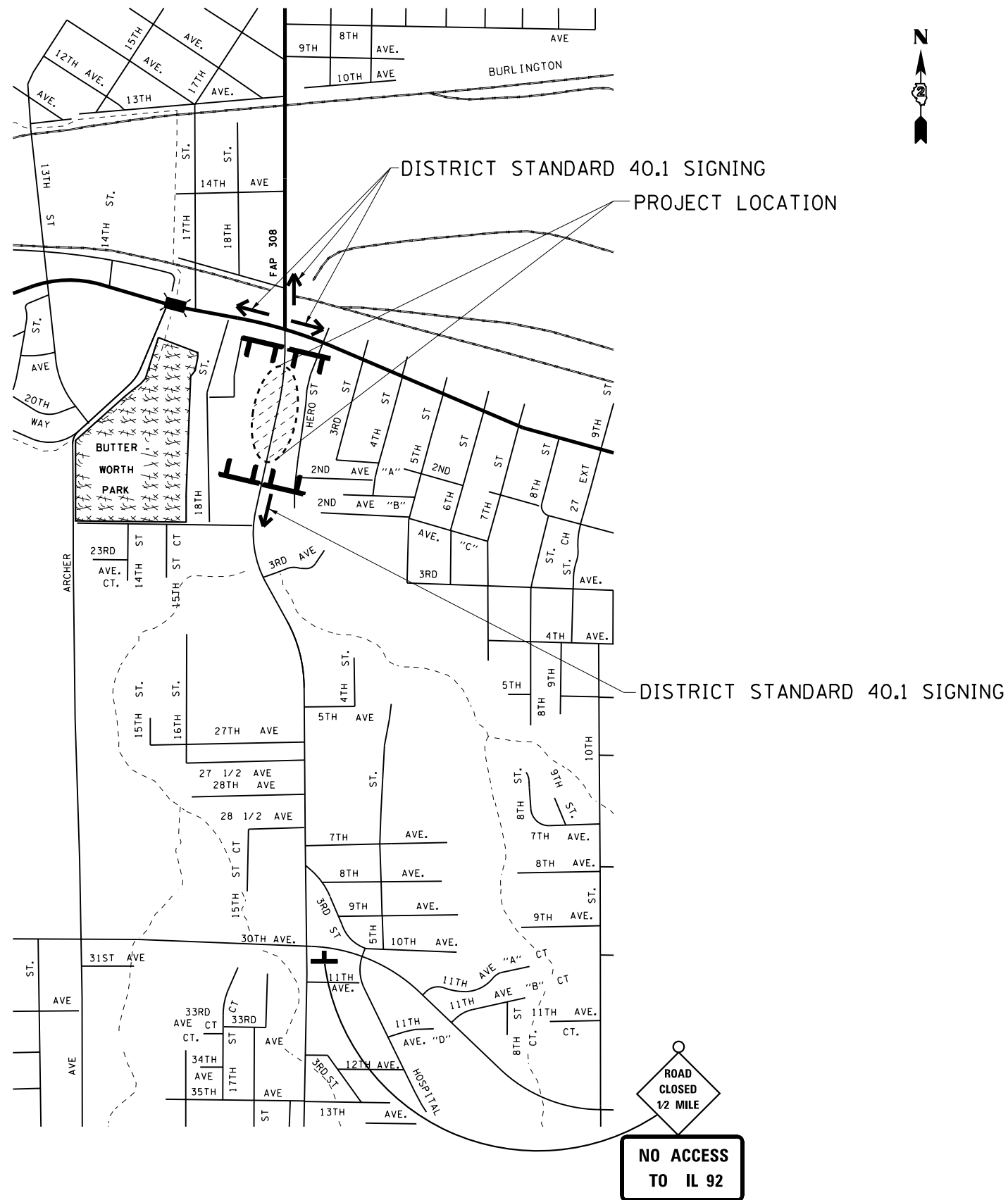
USER NAME = brianf
DESIGNED - RRD
CHECKED - AJS
DRAWN - BJF
CHECKED - RRD
REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG (SHEET 2 OF 2)
STRUCTURE NO. 081-7004
SHEET NO. 10 OF 10 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	23
				CONTRACT NO. 64K61
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE SIGNING DETAIL



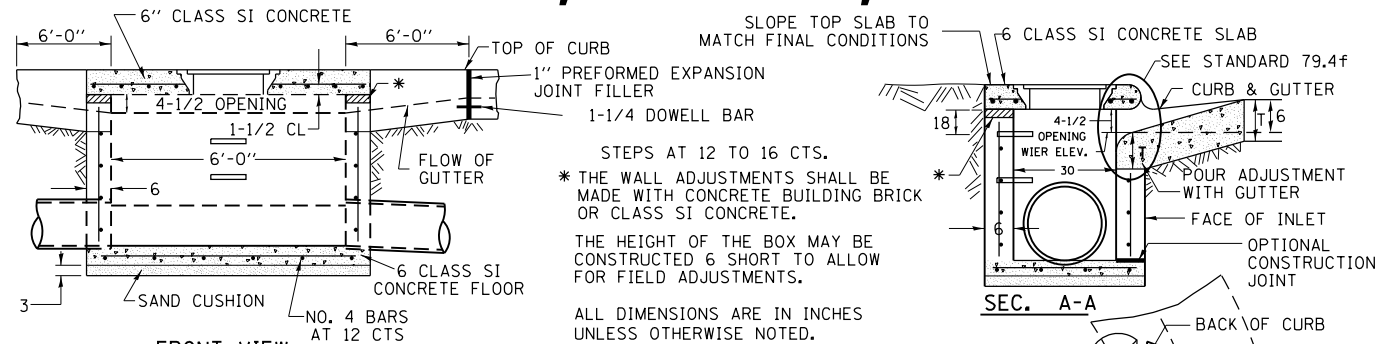
2.25" Radius, 1.00" Border, 0.50" Indent, Black on Orange;
 [NO ACCESS] C 2K;
 [TO] C 2K;
 Table of letter and object lefts.

N	0					
4.50	9.13					
	A	C	C	E	S	S
	18.63	23.25	27.63	32.25	36.00	40.13
T	0					
4.50	8.38					

- ☐ TYPE III BARRICADES WITH FLASHERS
PLACED AS SHOWN IN STANDARD 701901.
- ☐ ROAD CLOSED X MILE(S) SIGN
WITH SUPPLEMENTAL PLATES
AS REQUIRED IN THE SPECIAL PROVISIONS

THIS SHALL BE PAID FOR AT THE CONTRACT
 UNIT PRICE PER EACH FOR TRAFFIC
 CONTROL AND PROTECTION (SPECIAL)

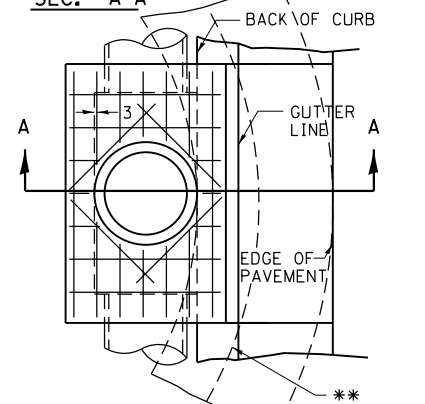
INLETS, SPECIAL, NO. 5



STEPS AT 12 TO 16 CTS.
 * THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.
 THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.
 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

NOTES

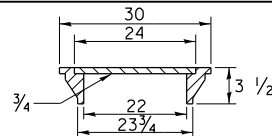
STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5 FOOT
 THE INLET SHALL BE CAST IN PLACE OR PRECAST.
 EXCEPT AS NOTED HEREON INLETS, SPECIAL, NO. 5 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
 THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 5 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).
 THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.
 THE CURB AND GUTTER ADJACENT TO AND 6 FOOT ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.
 ALL PIPE UNDERDRAIN CONNECTIONS WHEN SPECIFIED SHALL BE DONE IN ACCORDANCE WITH ART. 601 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER (FOOT) FOR PIPE UNDERDRAINS, TYPE 2 OR PIPE UNDERDRAINS (SPECIAL) OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.



** WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

SEE STANDARD 602701 FOR DETAILS OF STEPS. 1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET. CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS. REINFORCEMENT FOR INLETS, SPECIAL, NO. 5 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4g

LIGHT WEIGHT MANHOLE CASTING

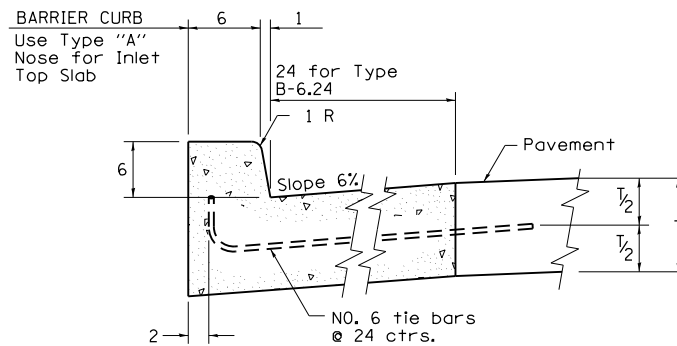


TOTAL WEIGHT 160 LBS.

REVISED - 1-05-16
 REVISED - 8-27-13
 REVISED - 10-04-11

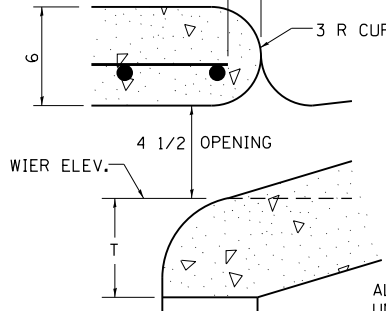
INLETS, SPECIAL, NO. 5 79.4b

NOSE TYPE FOR INLET TOP SLAB



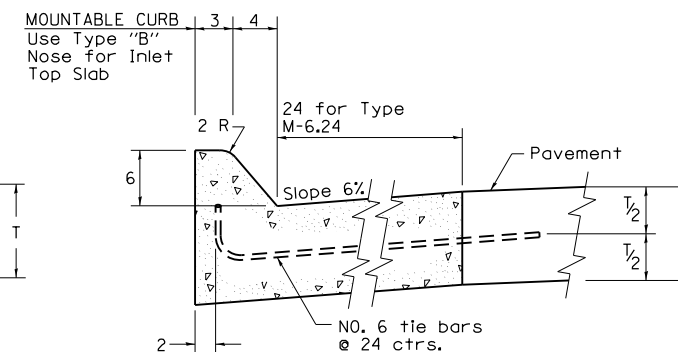
TYPE "A"

TO BE USED ON EXISTING OR PROPOSED 6 BARRIER CURB



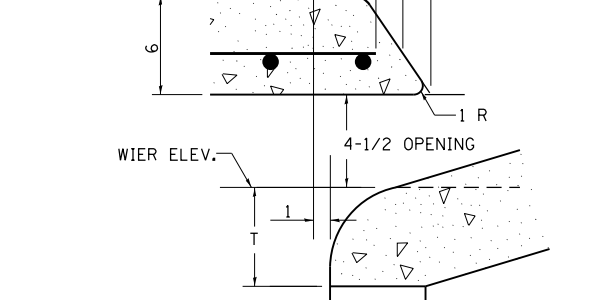
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 4-14-15
 REVISED - 10-05-11



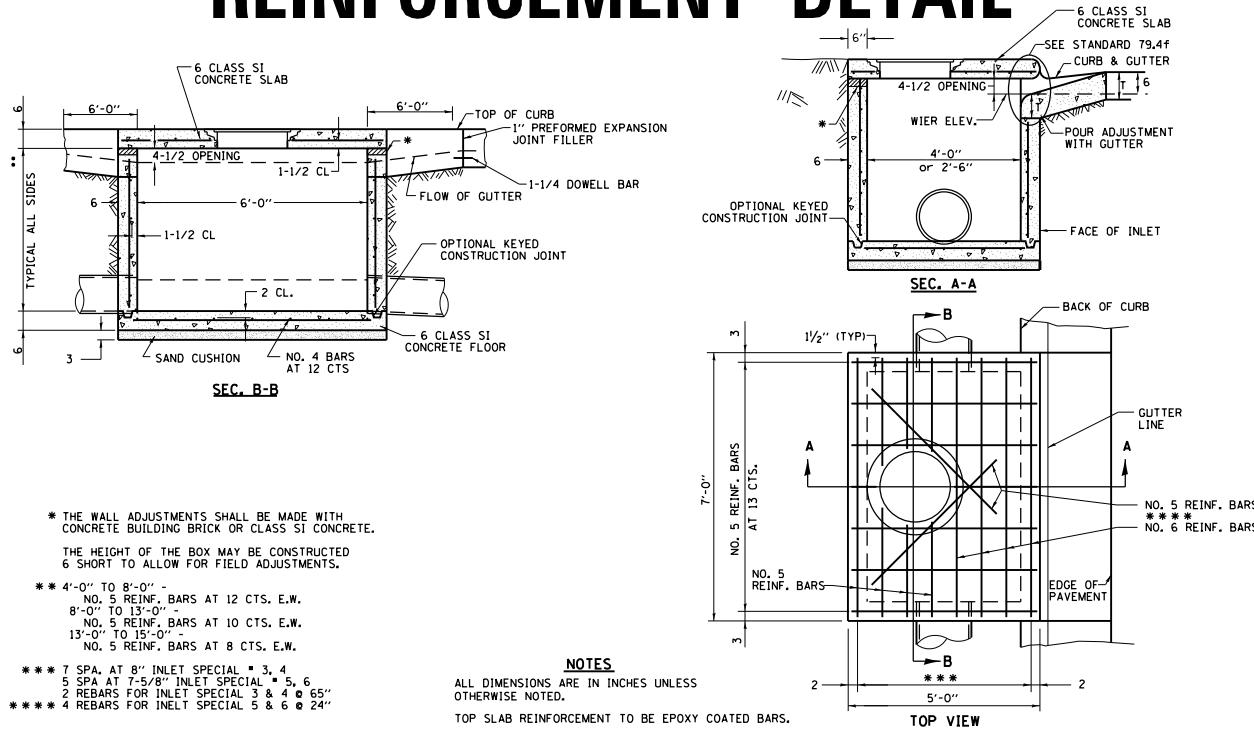
TYPE "B"

TO BE USED ON PROPOSED 6 MOUNTABLE CURB



NOSE TYPE FOR INLET TOP SLAB 79.4f

INLETS, SPECIAL, NO. 3, 4, 5, 6 REINFORCEMENT DETAIL



* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE. THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.
 ** 4'-0" TO 8'-0" - NO. 5 REINF. BARS AT 12 CTS. E.W.
 8'-0" TO 13'-0" - NO. 5 REINF. BARS AT 10 CTS. E.W.
 13'-0" TO 15'-0" - NO. 5 REINF. BARS AT 8 CTS. E.W.
 *** 7 SPA. AT 8" INLET SPECIAL * 3, 4
 5 SPA AT 7'-5/8" INLET SPECIAL * 5, 6
 3 REBARS FOR INLET SPECIAL 3 & 4 @ 65"
 **** 4 REBARS FOR INLET SPECIAL 5 & 6 @ 24"

NOTES

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
 TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

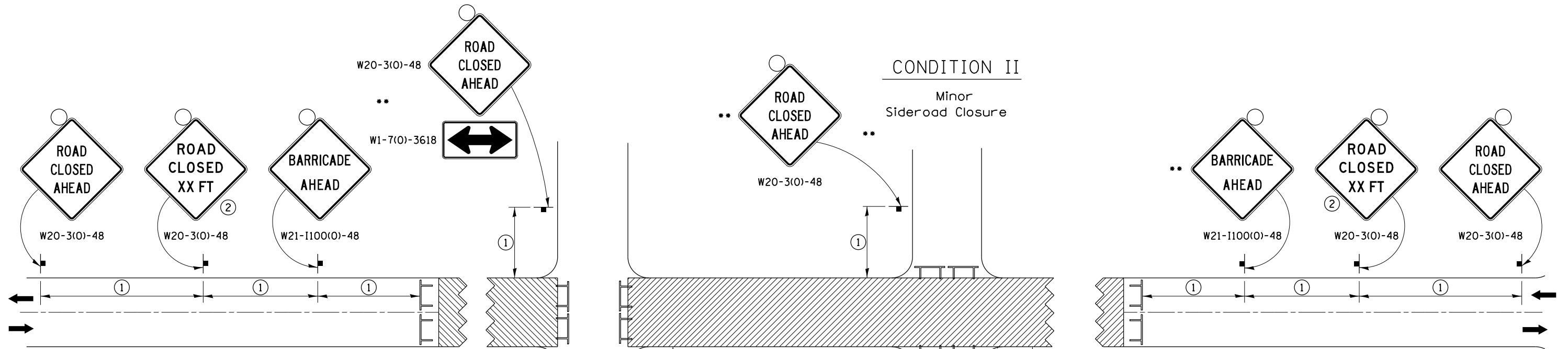
REVISED - 8-27-13
 REVISED - 10-05-11

INLETS, SPECIAL, NO. 3, 4, 5, 6 REINFORCEMENT DETAIL 79.4g




REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		5855	113M	ROCK ISLAND	34	25
REVISED -		CONTRACT NO. 64K61				
REVISED -		SCALE: 100.0000' / 1" = 10'-0"	SHEET NO.	OF SHEETS	STA.	TO STA.
REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLOT DATE = Mar-10-2016 01:06:10 PM

TRAFFIC CONTROL FOR ROAD CLOSURE



SYMBOLS

-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

All dimensions are in inches unless otherwise shown.

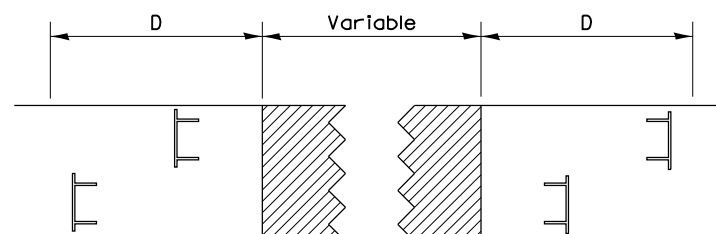
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

CONDITION I

Major Sideroad Closure

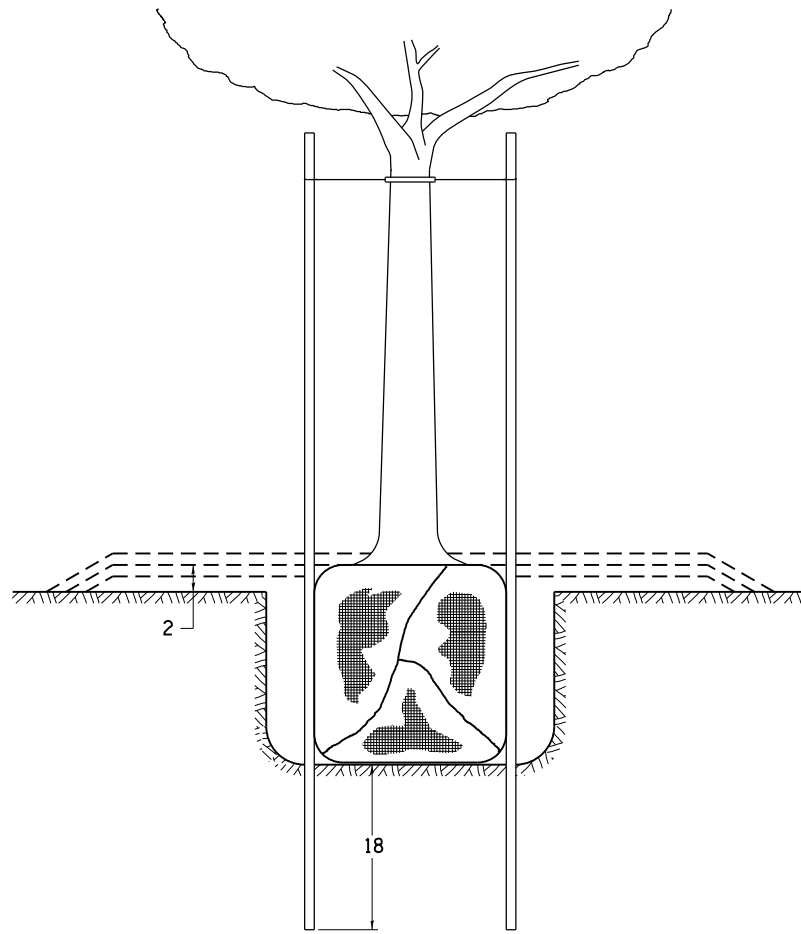
CONDITION II

Minor Sideroad Closure

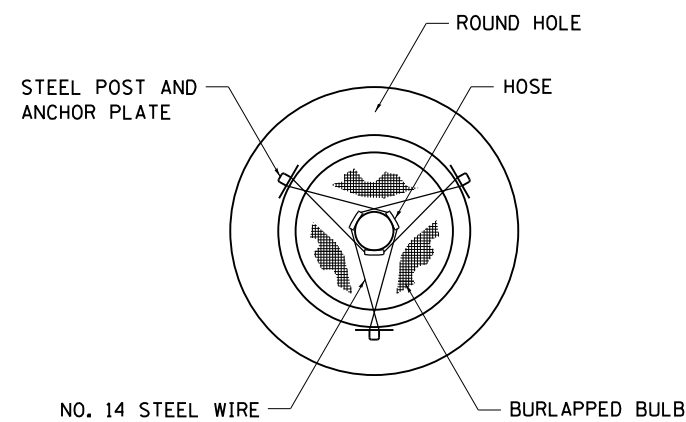
TYPICAL APPLICATION FOR ROAD CLOSURE

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 2\Projects\2208\DRAWING\CADsheets\P200815-sh1-typical.dwg	PLotted	CHECKED -	REVISED - 8-27-13					5855	113M	ROCK ISLAND	34	26
	PLOT SCALE = 100.0000' / in.	DATE -	REVISED - 10-17-11		CONTRACT NO. 64K61							
	PLOT DATE = Mar-10-2016 01:06:27 PM		REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

DETAILS OF PLANTING AND BRACING TREES

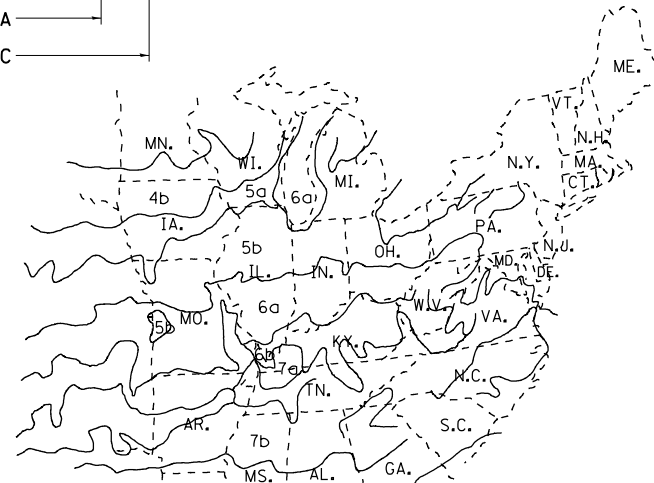
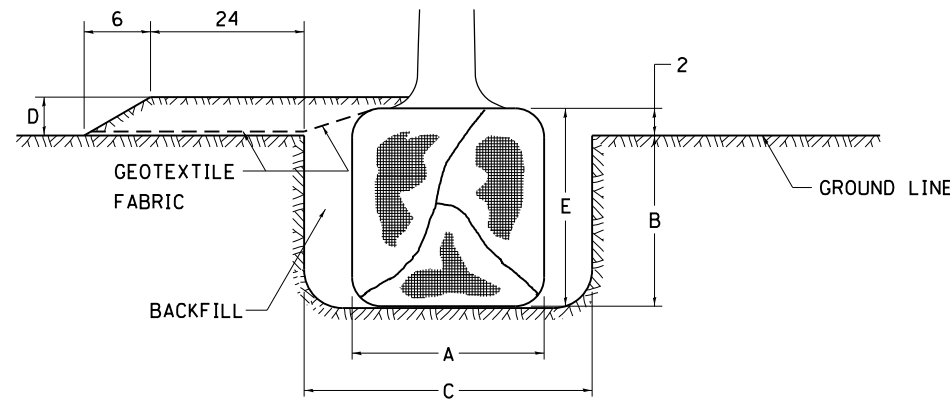


TREES SMALLER THAN 4 1/2 IN DIAMETER



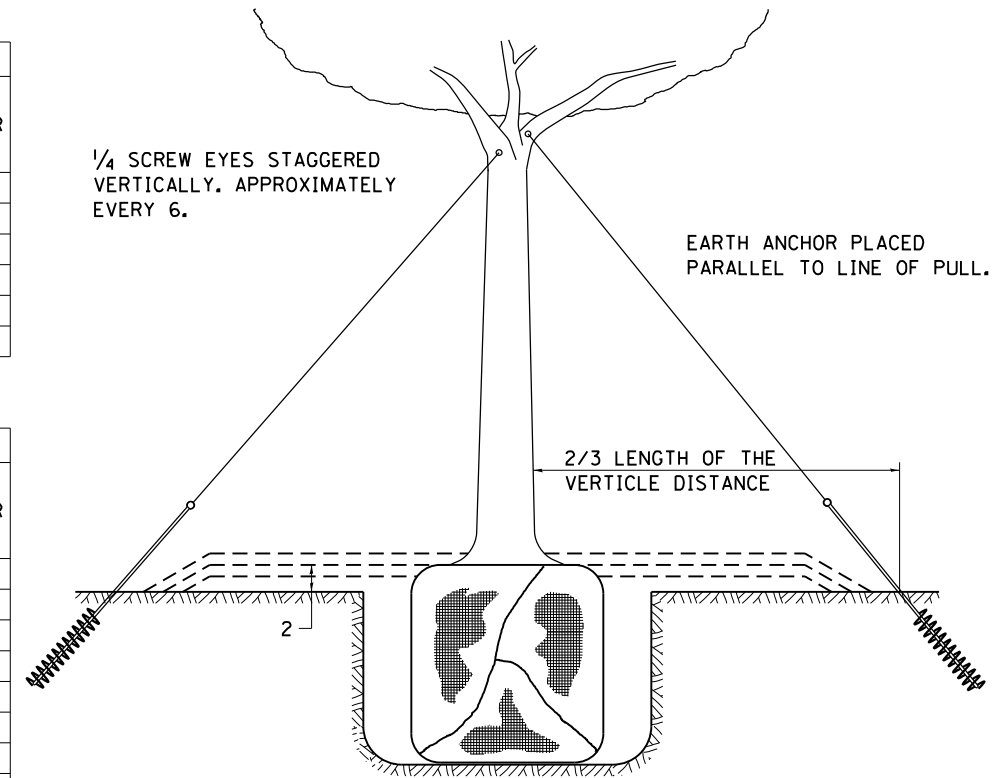
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38

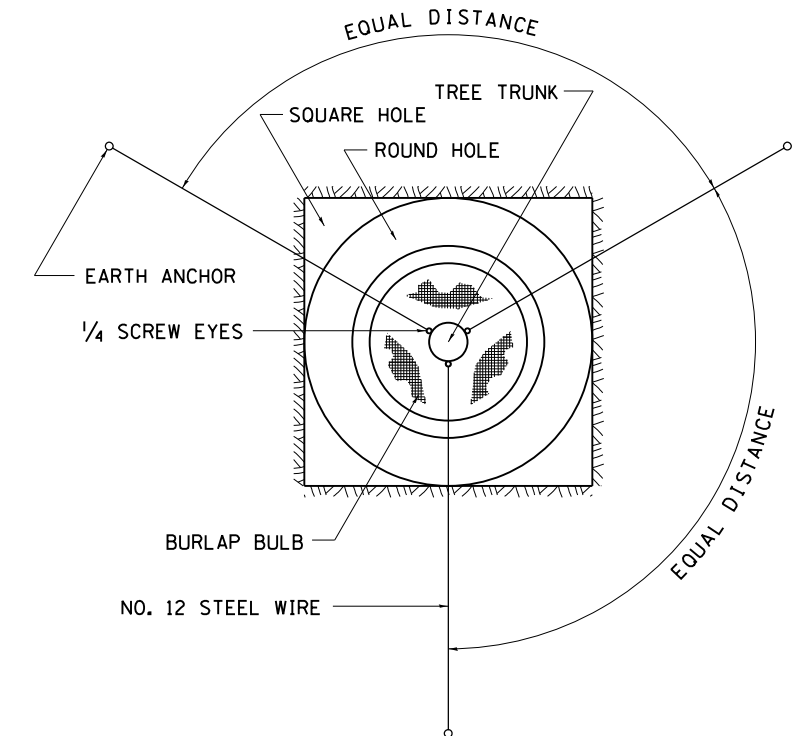


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 4 1/2 IN DIAMETER



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = cushmenbw	DESIGNED -	REVISED - 10-18-11
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

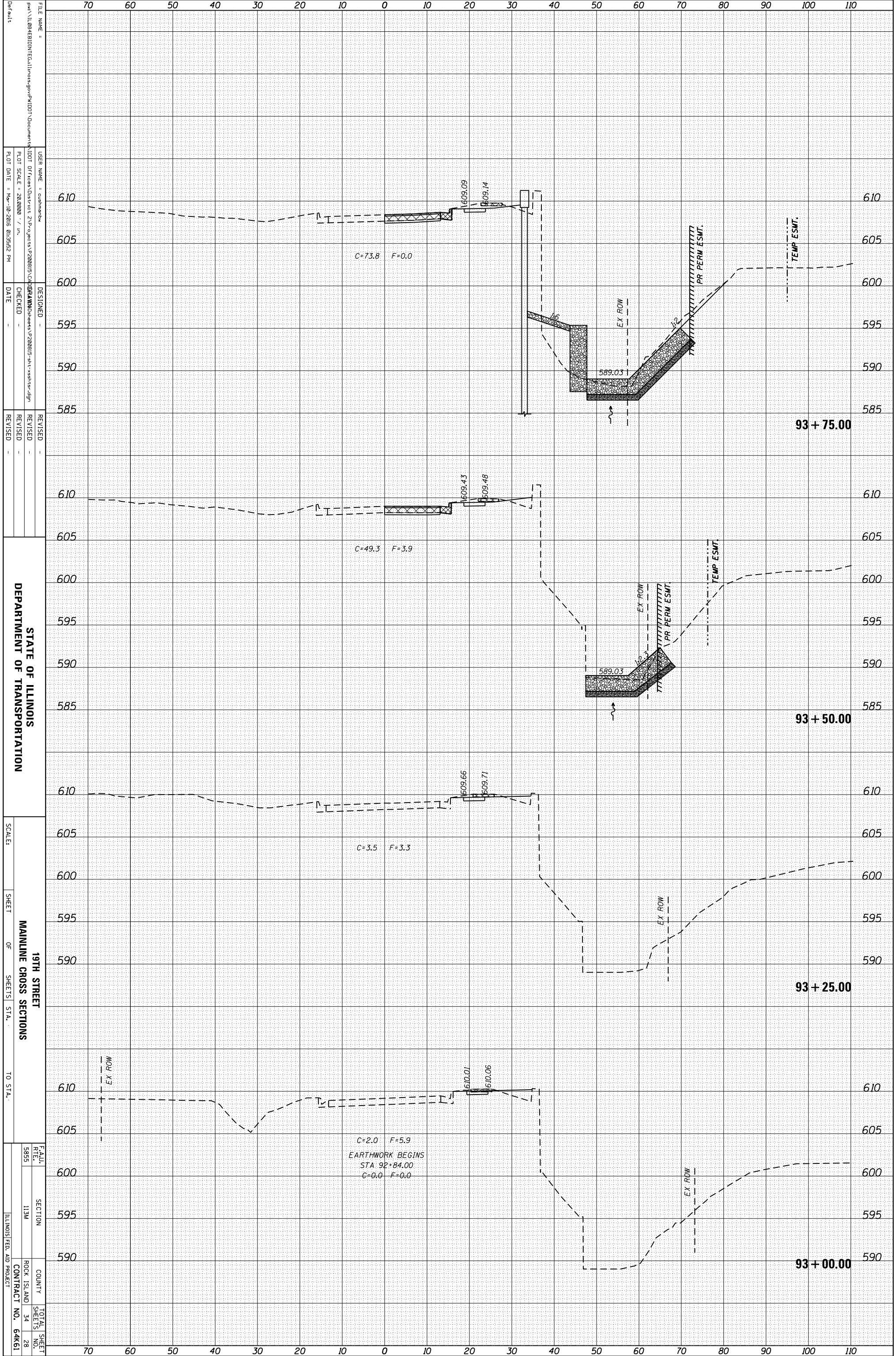
REGION 2 / DISTRICT 2 STANDARD

SCALE: SHEET NO. OF SHEETS STA. TO STA.

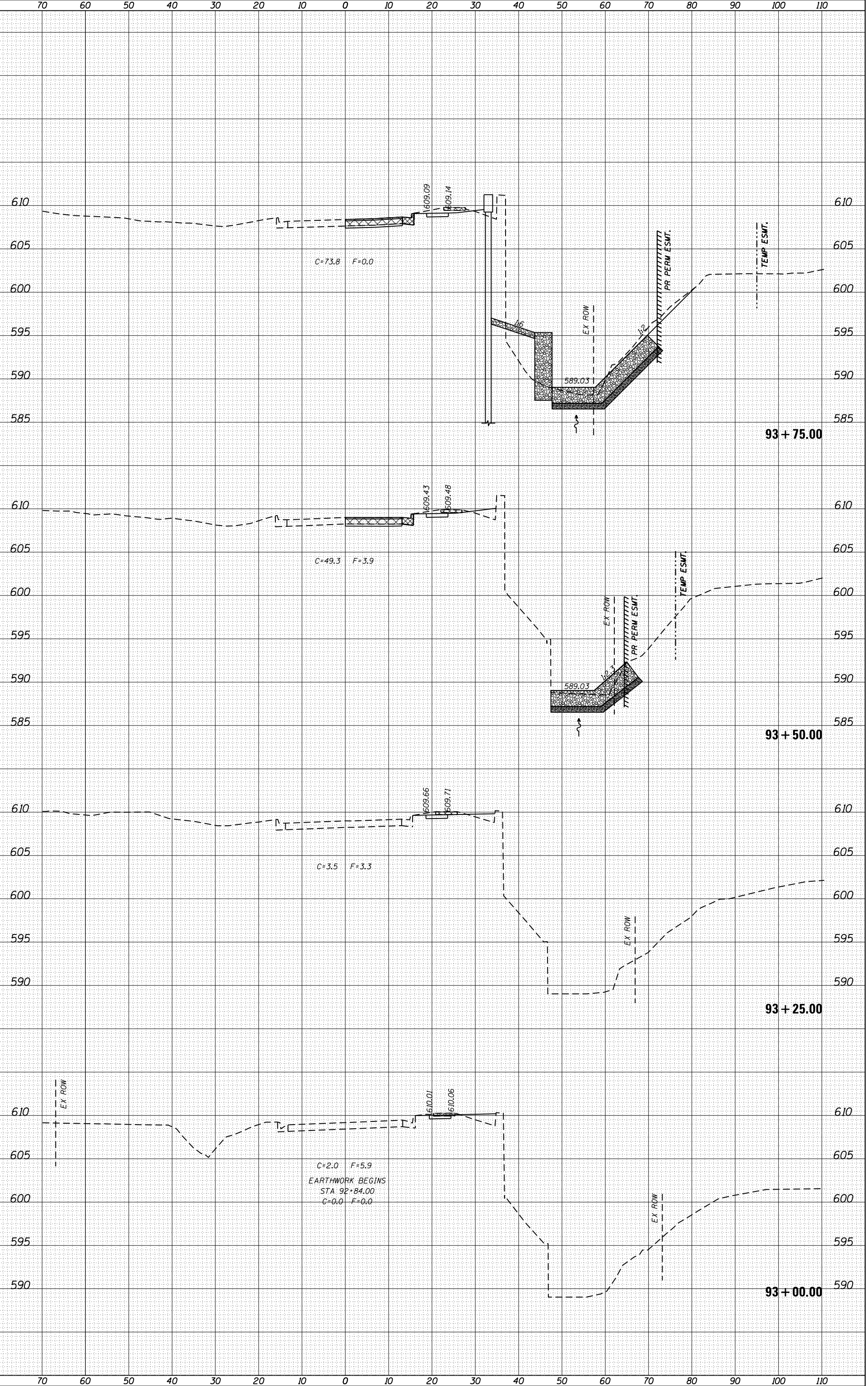
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5855	113M	ROCK ISLAND	34	27
CONTRACT NO. 64K61				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

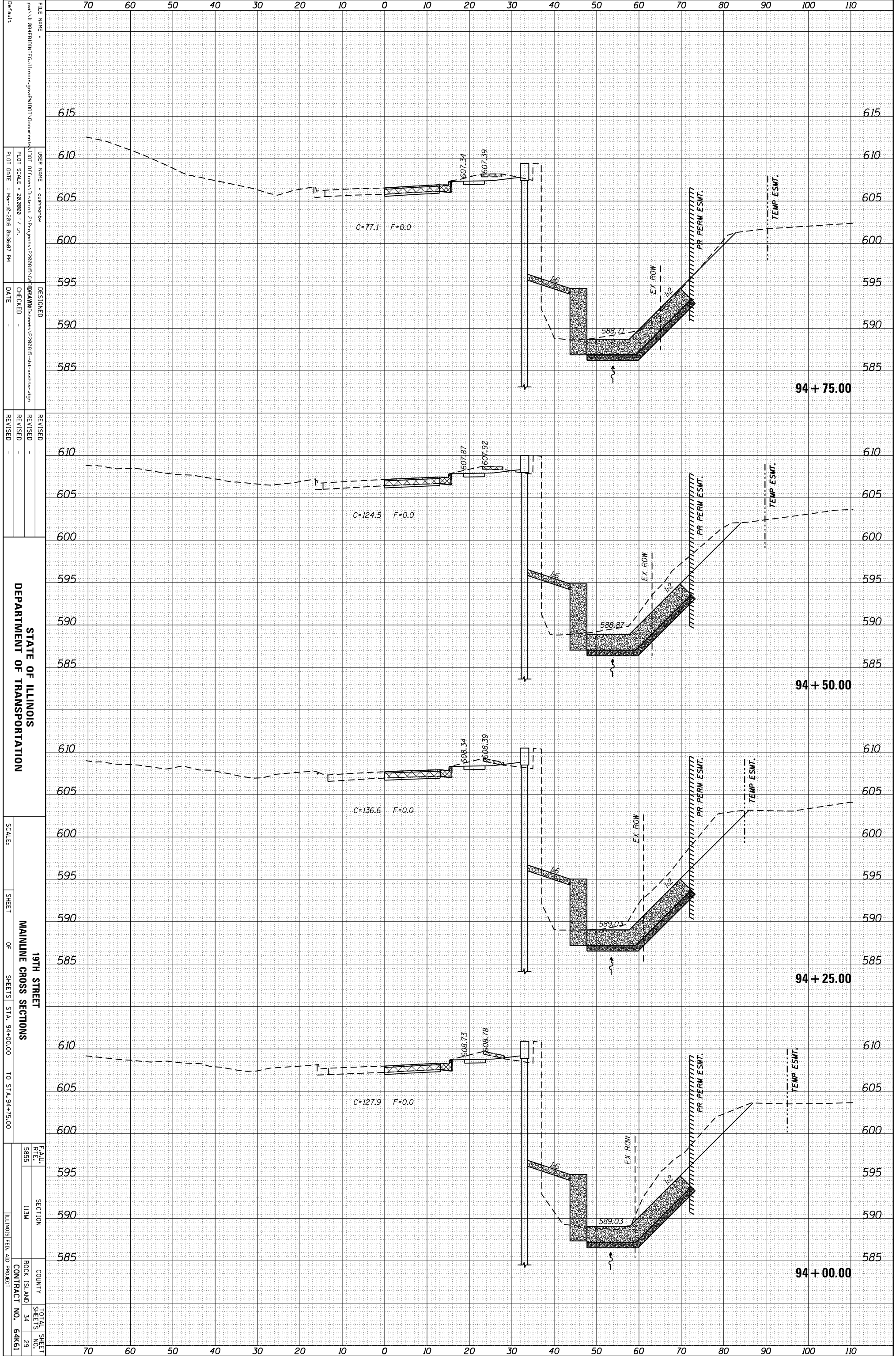


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 DATE -
 REVISIONS -
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 DEPARTMENT OF TRANSPORTATION
 SCALE:
 SHEET OF SHEETS STA.
 TO STA.
 19TH STREET
 MAINLINE CROSS SECTIONS
 COUNTY
 ROCK ISLAND
 CONTRACT NO. 64K61
 TOTAL SHEET NO. 34
 SHEETS NO. 28



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
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FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		



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DESIGNED -
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REVISOR -
 REVISION -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:
 SHEET OF SHEETS

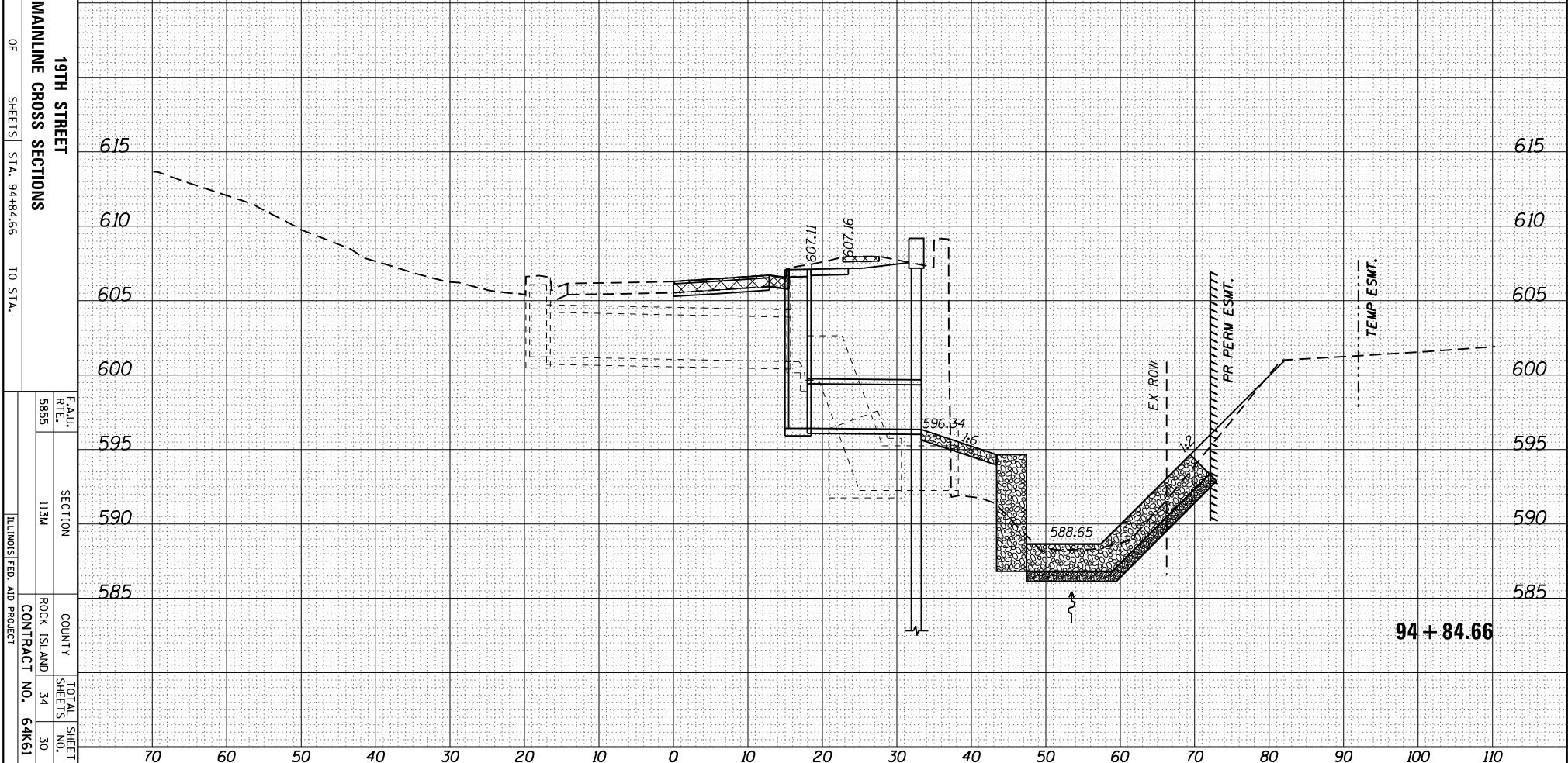
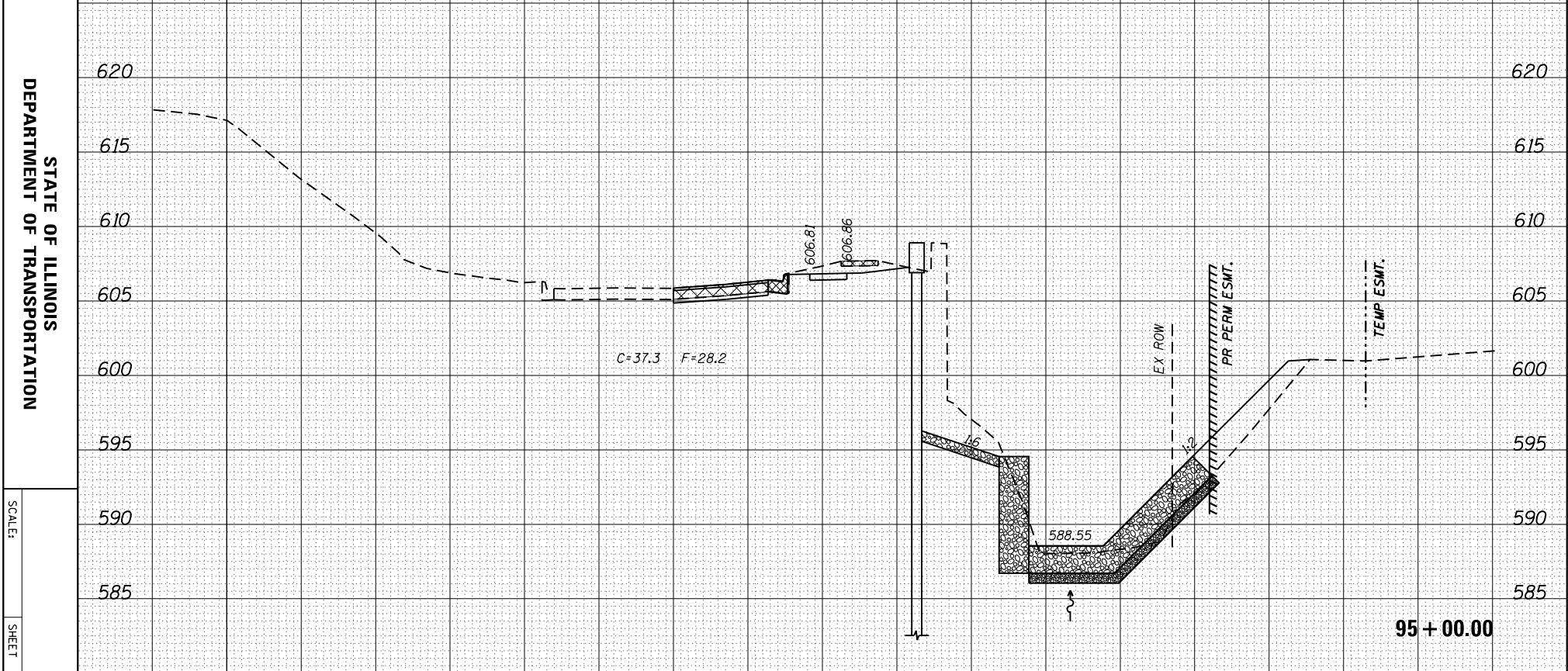
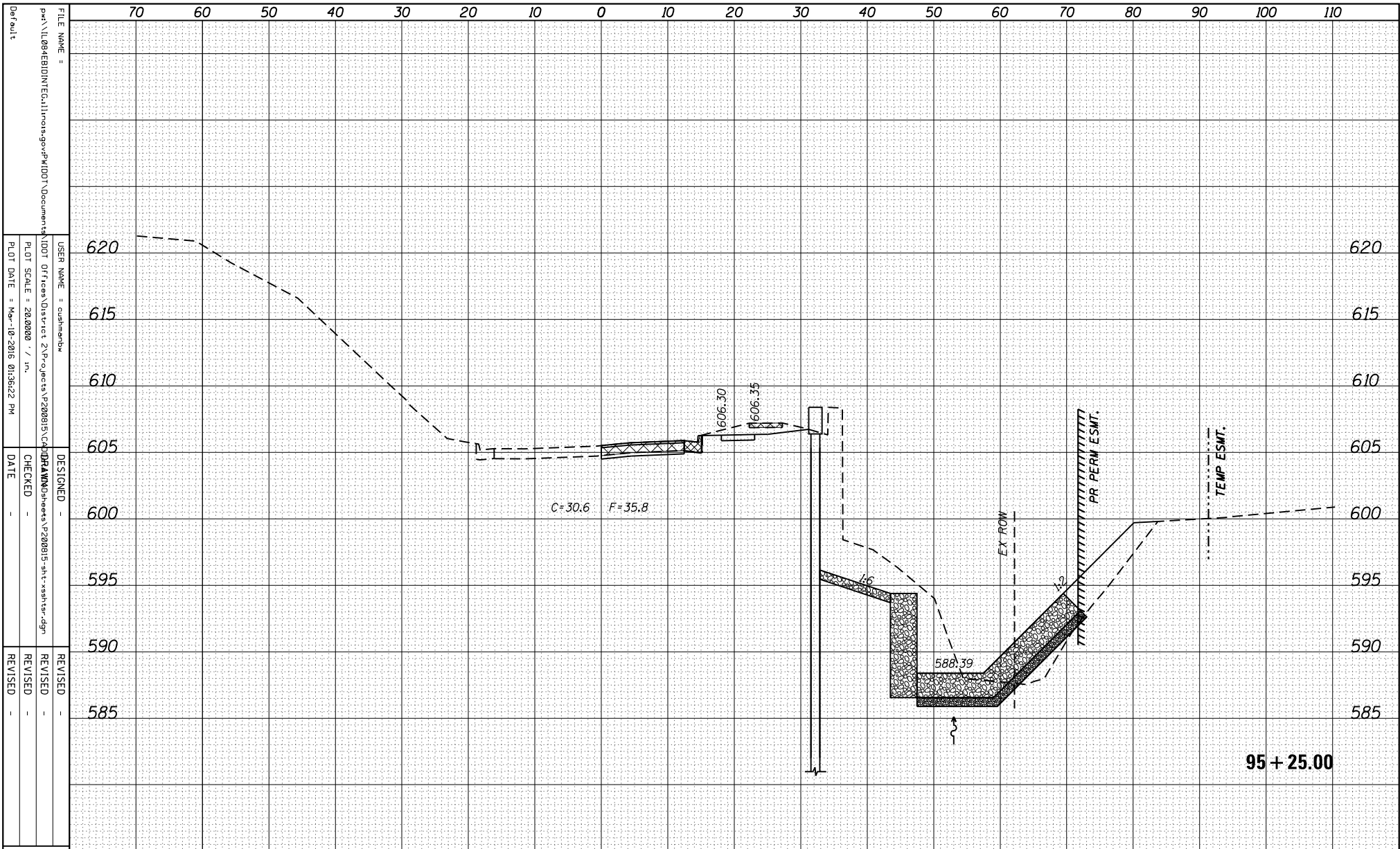
19TH STREET
 MAINLINE CROSS SECTIONS

STA. 94+00.00 TO STA. 94+75.00

F.A.U. R.T.E. 5895
 SECTION 113M
 COUNTY ROCK ISLAND
 CONTRACT NO. 64K61
 TOTAL SHEETS 34
 SHEET NO. 29

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		



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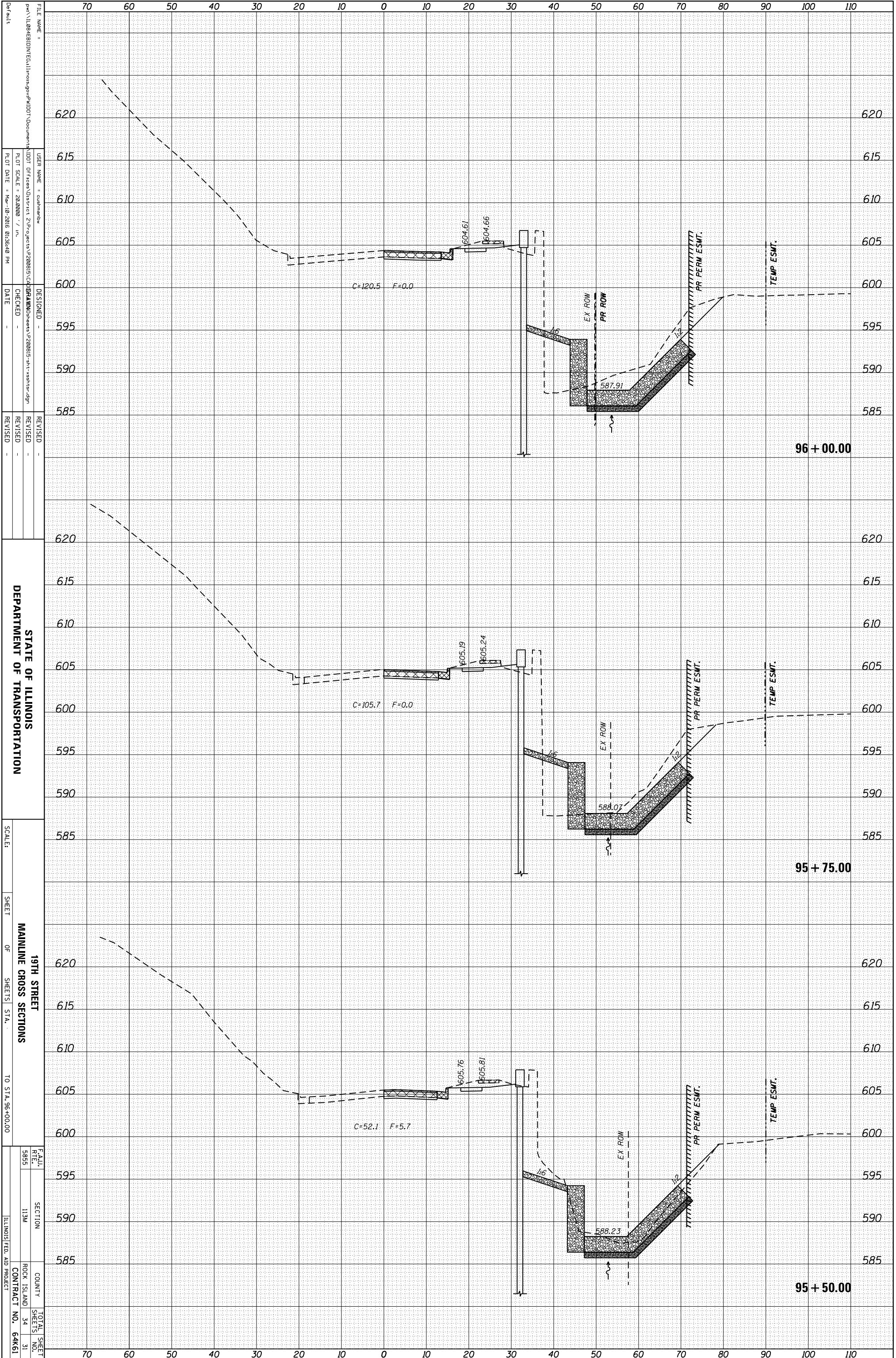
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 SCALE:
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 OF
 SHEETS

19TH STREET
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 STA. 94+84.66 TO STA.
 COUNTY
 ROCK ISLAND
 CONTRACT NO. 64K61
 TOTAL SHEET NO. 34
 SHEETS 30

ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
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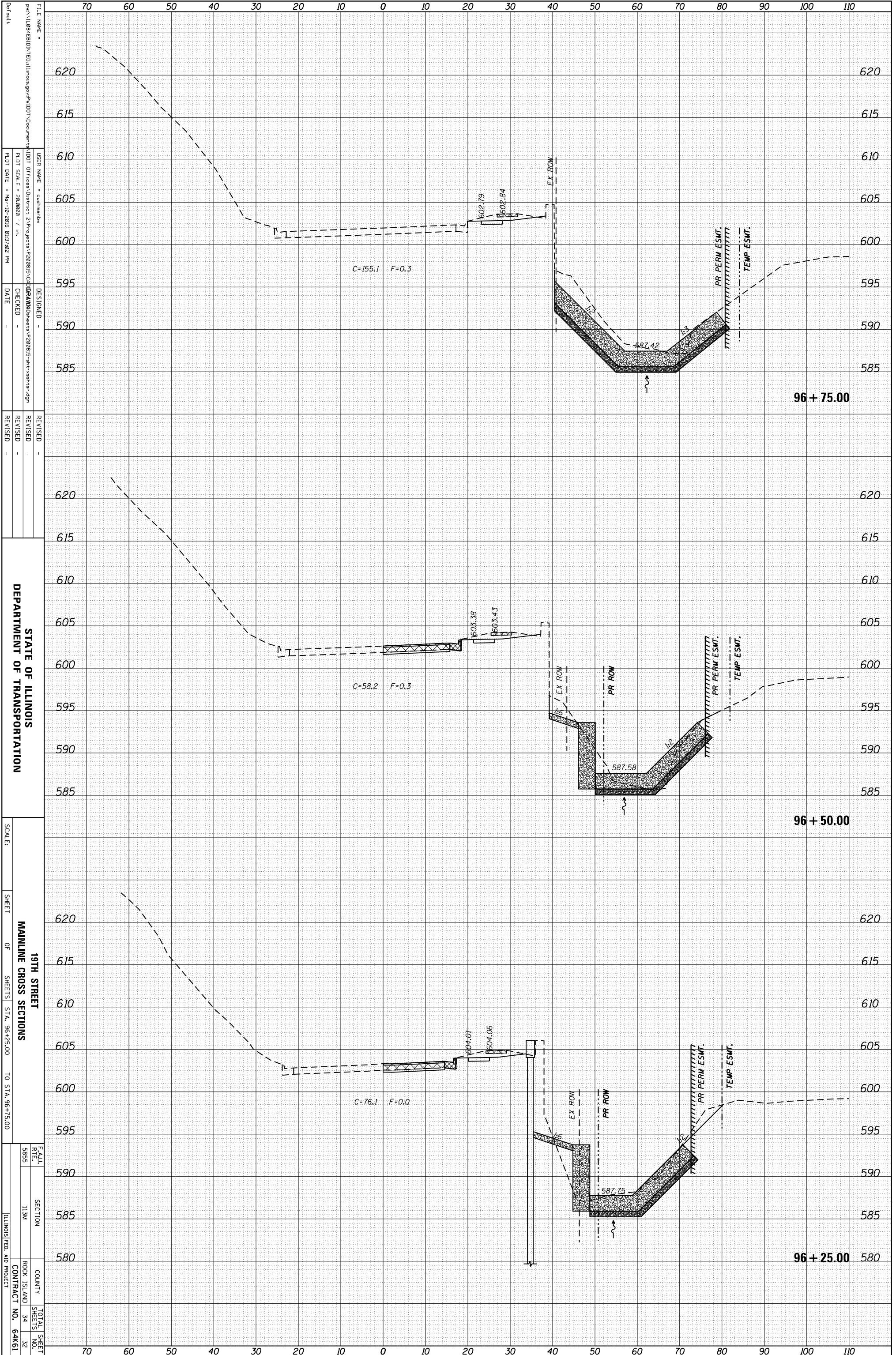
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 19TH STREET
 MAINLINE CROSS SECTIONS
 SHEET OF SHEETS STA. TO STA. 96+00.00

FEALU	SECTION	COUNTY	TOTAL SHEETS
RTF	113M	ROCK ISLAND	34
8855			31
		CONTRACT NO.	64K61

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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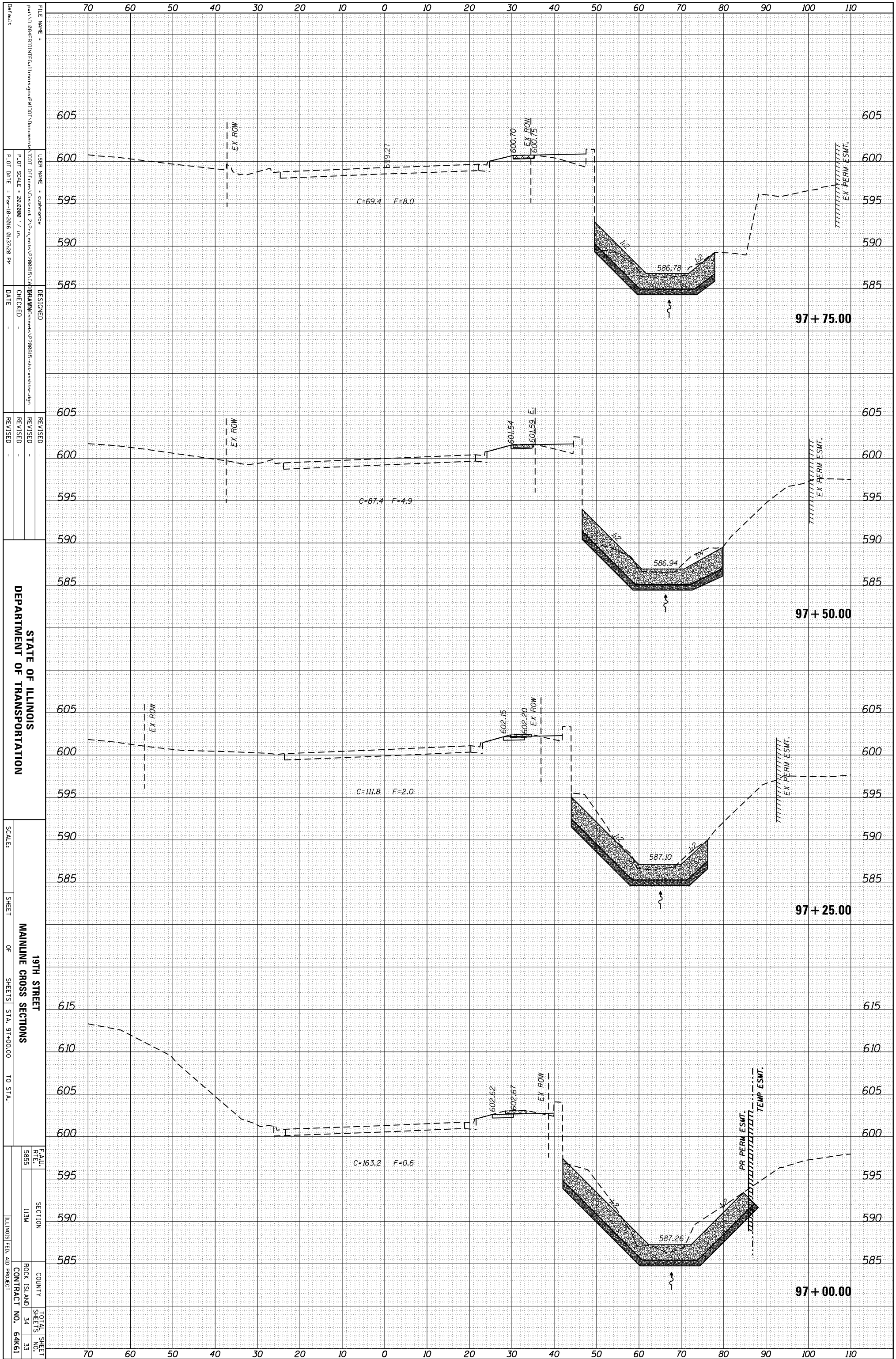
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 REVISION -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 19TH STREET
 MAINLINE CROSS SECTIONS
 SHEET OF SHEETS STA. 96+25.00 TO STA. 96+75.00

F.A.U. REF. 8855 SECTION 113M COUNTY ROCK ISLAND CONTRACT NO. 64K61 TOTAL SHEETS 34 SHEET NO. 32 ILLINOIS FED. AID PROJECT

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NOTE BOOK	PLOTTED _____		
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	AREAS _____		
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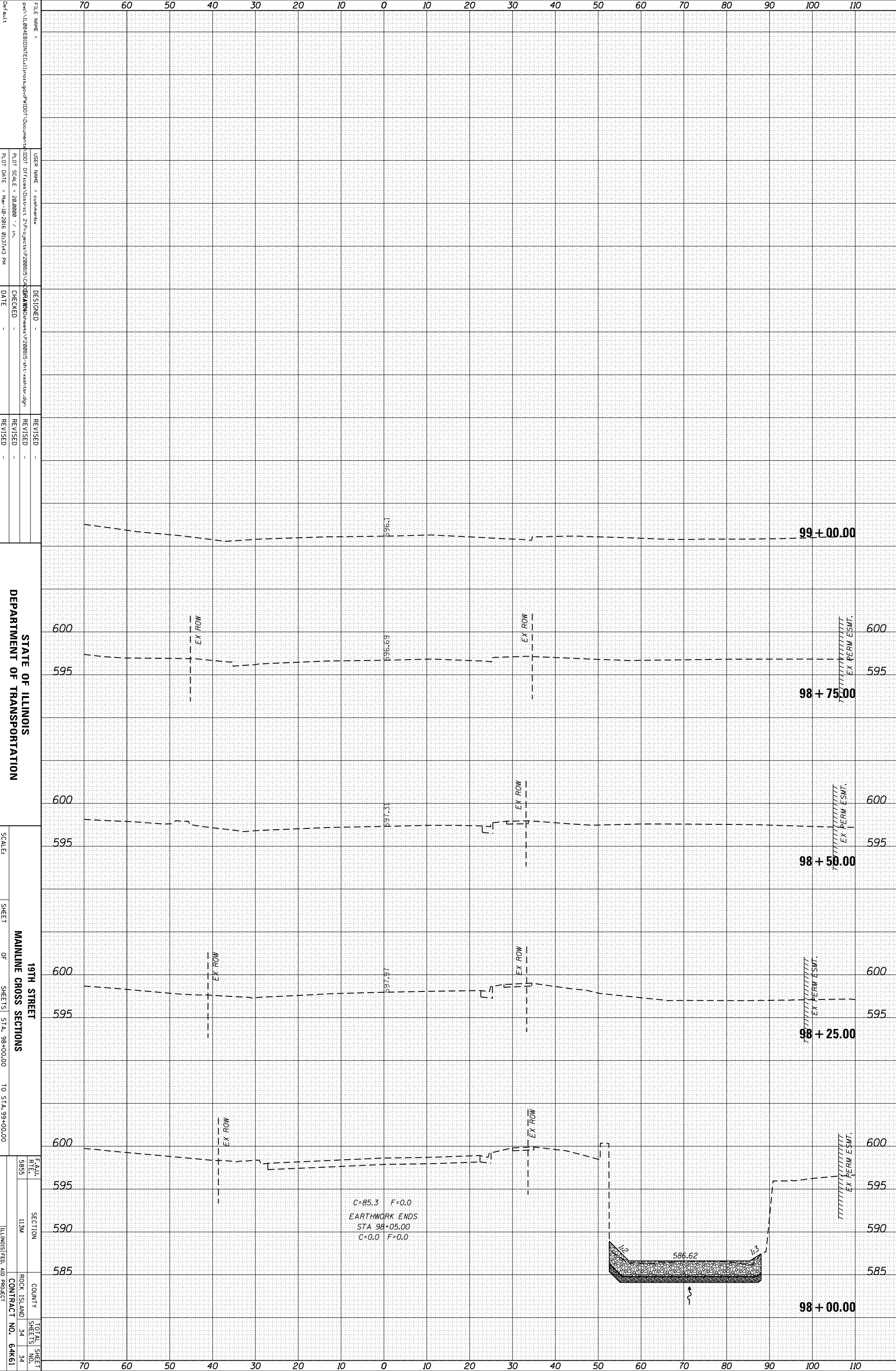
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

19TH STREET
MAINLINE CROSS SECTIONS
SHEET OF SHEETS STA. 97+00.00 TO STA.

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CHECKED =	CHECKED =	CHECKED =	CHECKED =
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	AREAS CHECKED		



FILE NAME =
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DESIGNED -
 CHECKED -
 DATE -

REVISOR -
 REVISION -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 19TH STREET
 MAINLINE CROSS SECTIONS
 SHEET OF SHEETS
 STA. 98+00.00 TO STA. 99+00.00
 COUNTY
 ROCK ISLAND
 CONTRACT NO. 64K61
 TOTAL SHEET NO. 34