

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	1
		ILLINOIS		CONTRACT NO. 93711

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PROPOSED MULTI-USE TRAIL IMPROVEMENTS

BILL KLINGNER TRAIL – 18TH STREET TO 24TH STREET

SECTION 16-P4003-04-BT

PROJECT NO. 2M1D (727)

JOB NO.: C-96-011-18

ADAMS COUNTY, IL

SURFACE TRANSPORTATION / ENHANCEMENT PROGRAM

HIGHWAY STANDARDS

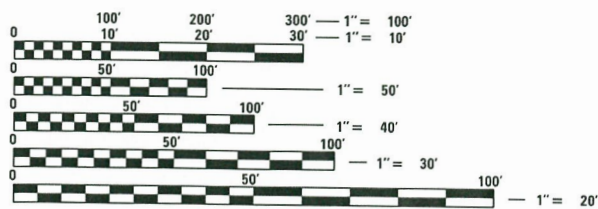
SEE SHEET 2 FOR LIST OF STANDARDS

DESIGN DESIGNATION

MULTI-USE PATH
DESIGN SPEED: 20 MPH

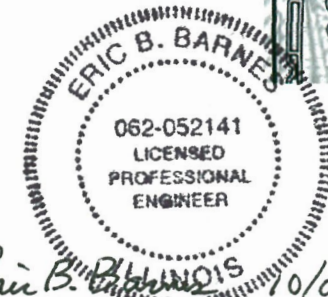
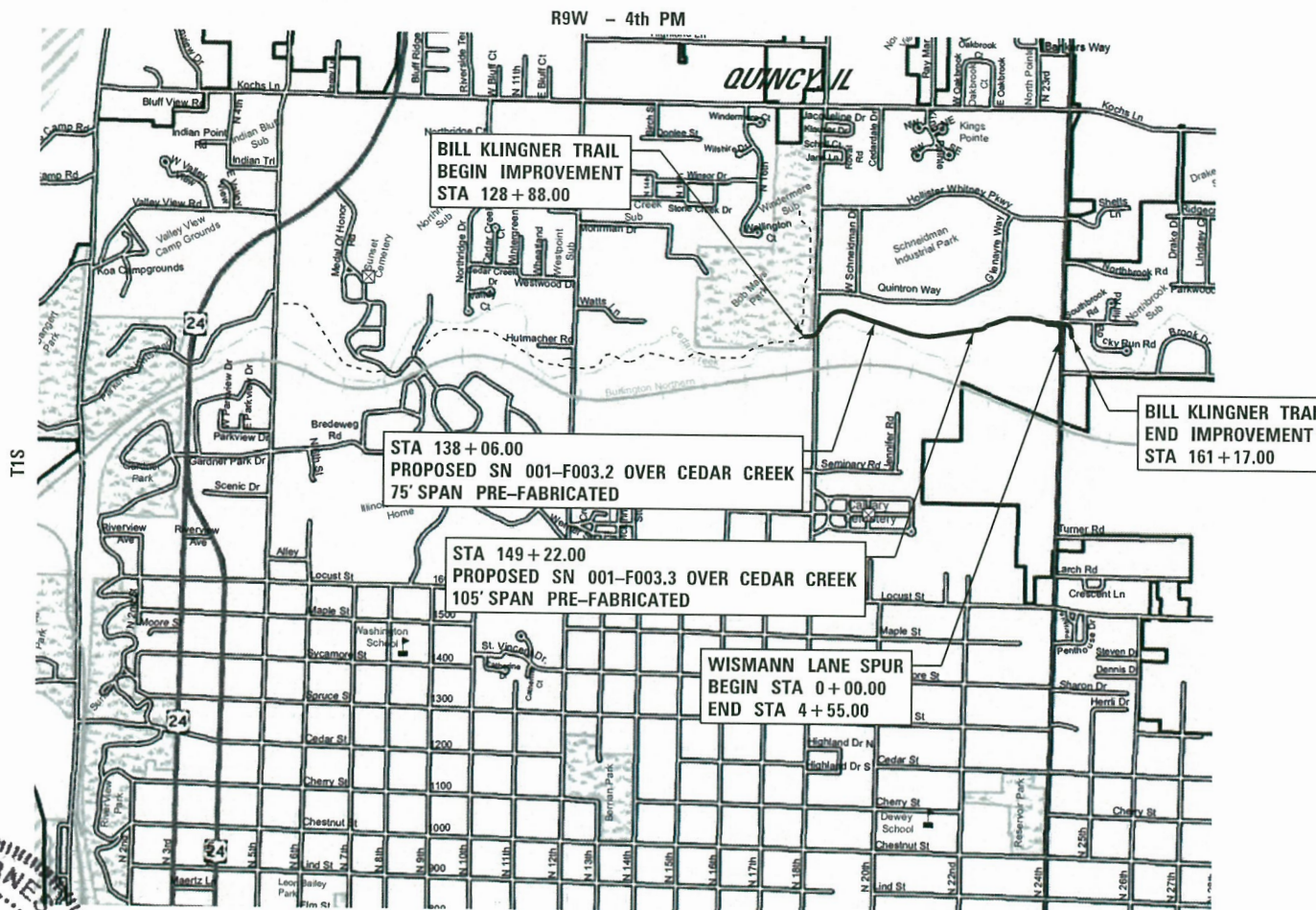
PROJECT DESCRIPTION

Project consists of construction of a new pedestrian /bike path along Cedar Creek, involving HMA pavement, aggregate shoulders, drainage structures, prefabricated bridges, retaining walls, erosion control, fencing, seeding, signage, pavement striping and other miscellaneous appurtenances.

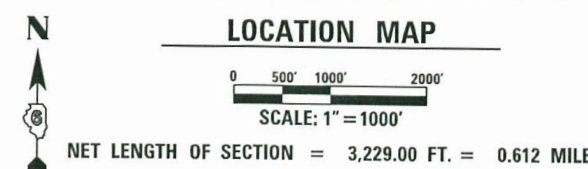


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

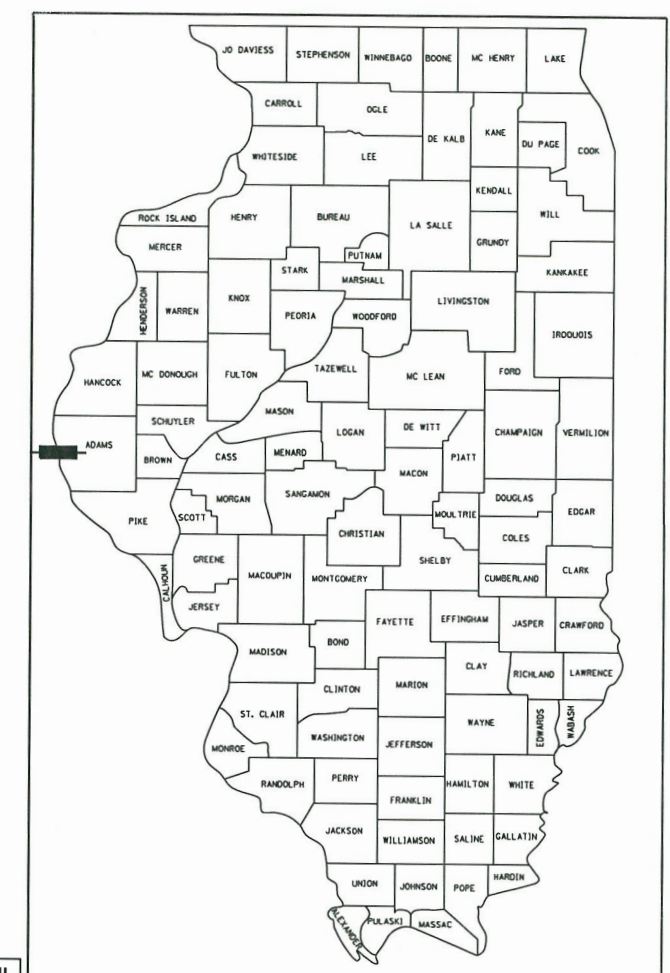


Eric B. Barnes
ERIC B. BARNES DATE 10/05/18
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062-052141
LICENSE EXPIRES NOVEMBER 30, 2019



Plans prepared by: IL DESIGN FIRM NO.: 1842738
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

Quincy, Illinois
616 North 24th Street
217.223.3670
www.klingner.com
Galesburg, IL Burlington, IA
Pella, IA Hannibal, MO Columbia, MO



LOCATION OF SECTION INDICATED THUS: - [black bar] -

APPROVED *October 5 20 18*
Ron Fl
EXECUTIVE DIRECTOR, QUINCY PARK DISTRICT

PASSED *10-10 20 18*
Chris L. Isbell
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review *10-10 20 18*
Jeffrey H. South
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
424026-02	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
515001-03	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15 THRU 84IN DIA
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15IN THRU 72IN EQUIV DIA
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602306-03	INLET, TYPE B
602401-04	MANHOLE, TYPE A
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE I
604036-03	GRATE, TYPE B
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701502-08	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 10-7	PCC PAVEMENT SPECIAL

GENERAL NOTES

- THE NOMINAL THICKNESS FOR BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES, OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- ALL ELEVATIONS SHOWN REFER TO THE U.S.G.S. DATUM AT SEA LEVEL, UNLESS OTHERWISE NOTED.
- UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION, AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY OUT HIS OR HER OPERATIONS ACCORDINGLY.
- THE FOLLOWING UTILITIES HAVE FACILITIES WITHIN THE LIMITS OF CONSTRUCTION:

CITY OF QUINCY	SANITARY/STORM SEWER	730 MAINE ST, QUINCY, IL	217-228-4555
CITY OF QUINCY	WATER	730 MAINE ST, QUINCY, IL	217-228-4580
AMERITECH	TELEPHONE	1640 HAZEL DELL RD, SPRINGFIELD IL	217-789-5504
AMEREN CIPS	ELECTRICAL	700 JERSEY, QUINCY, IL	1-800-789-2477
AMEREN CIPS	GAS	700 JERSEY, QUINCY, IL	217-257-7604
COMCAST	CABLE	2930 STATE ST, QUINCY, IL	217-222-5388
- ADJUSTMENTS OF UTILITY LOCATIONS SHALL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED.
- THE DEPTH OF DRAINAGE STRUCTURES MAY BE ADJUSTED VERTICALLY DUE TO CONFLICTS WITH OTHER UTILITY LINES AS APPROVED BY THE ENGINEER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR THE DRAINAGE STRUCTURE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER ON THIS SHEET.
- ALL DETAILS IN THESE PLANS SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL GOVERN.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED AS PART OF THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- EXISTING MAILBOXES SHALL BE TEMPORARILY RELOCATED FOR CONTINUED OPERATION AS NECESSARY DURING CONSTRUCTION. MAIL BOXES SHALL BE RELOCATED TO THEIR FINAL LOCATION AFTER CONSTRUCTION AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED AS PART OF THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	TRAIL & SERVICE DRIVE	TRAIL & SERVICE DRIVE
MIXTURE USES:	SURFACE	BINDER
AC/PG:	PG 58-28	PG 58-28
DESIGN AIR VOIDS:	4% @ NDESIGN = 50	4% @ NDESIGN = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL - 9.5	IL - 19.0
FRICTION AGGREGATE:	MIX "C"	N/A
MIXTURE WEIGHT:	112.0 LB/SQ YD/IN	112.0 LB/SQ YD/IN
QUALITY MANAGEMENT:	QC/QA	QC/QA

RATES OF APPLICATION

AGGREGATE (SURFACE, BASE, BASE, OR BACKFILL)	2.05 TON/CU YD
SUBBASE GRANULAR MATERIAL, TYPE C	1.80 TON/CU YD
STONE DUMPED RIPRAP	1.50 TON/CU YD
HOT-MIX ASPHALT:	
BITUMINOUS MATERIALS (PRIME COAT)	0.05 LB/SQ FT (ON MILLED & NON-MILLED HMA & CONCRETE)
BITUMINOUS MATERIALS (PRIME COAT)	0.025 LB/SQ FT (BETWEEN LIFTS & ON BRICK)
BITUMINOUS MATERIALS (TACK COAT)	0.25 LB/SQ FT (ON AGGREGATE)
HOT-MIX ASPHALT	
	0.056 TON/SQ YD*IN
WATER FOR PLANTINGS	
	1 UNIT = 1000 GAL

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PLOT DATE = 10/5 /2008	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STANDARDS, GENERAL NOTES, & APPLICATION RATES

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	2
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PPS#		
				FACILITIES FOR BICYCLE / PEDESTRIAN TRAILS	SN 001-F003.2 NEW CONSTRUCTION STRUCTURE	SN 001-F003.3 NEW CONSTRUCTION STRUCTURE
				0028 URBAN	0028 URBAN	0028 URBAN
△ 25100115	MULCH, METHOD 2	ACRE	1.75	1.75		
△ 25100127	MULCH, METHOD 3A	ACRE	0.25	0.25		
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	30	30		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	400	400		
* 28000305	TEMPORARY DITCH CHECKS	FOOT	240	240		
* 28000315	AGGREGATE DITCH CHECKS	TON	40	40		
* 28000400	PERIMETER EROSION BARRIER	FOOT	3900	3900		
* 28000500	INLET AND PIPE PROTECTION	EACH	7	7		
28100107	STONE RIPRAP, CLASS A4	SQ YD	313		72	241
* 28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	260	260		
* 28100709	STONE DUMPED RIPRAP, CLASS A5	SQ YD	375	375		
28200200	FILTER FABRIC	SQ YD	1046	733	72	241
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	1607	1607		
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	2729	2729		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4439	4439		

* SEE SPECIAL PROVISIONS △ SPECIALTY ITEMS

KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.2670
 STATE OF ILLINOIS DESIGN FIRM NO. 164-2738

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE	SHEET 2 OF 8 SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	4
CONTRACT NO. 93711			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PPS#		
				FACILITIES FOR BICYCLE / PEDESTRIAN TRAILS	SN 001-F003.2 NEW CONSTRUCTION STRUCTURE	SN 001-F003.3 NEW CONSTRUCTION STRUCTURE
				0028 URBAN	0028 URBAN	0028 URBAN
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	222	222		
42001300	PROTECTIVE COAT	SO YD	2459	2459		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	119	119		
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	1195	1195		
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SO FT	3176	3176		
42400800	DETECTABLE WARNINGS	SO FT	16	16		
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	119	119		
50200100	STRUCTURE EXCAVATION	CU YD	222	167	40	15
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	7	7		
50300225	CONCRETE STRUCTURES	CU YD	46.4		23.2	23.2
50300300	PROTECTIVE COAT	SO YD	68		34	34
50800105	REINFORCEMENT BARS	POUND	24060	24060		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	19470	8430	5320	5720
51500100	NAME PLATES	EACH	2		1	1
51603000	DRILLED SHAFT IN SOIL	CU YD	7.4		3.1	4.3

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 Engineers • Architects • Surveyors
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	5
			CONTRACT NO. 93711	
[ILLINOIS] FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
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				FACILITIES FOR BICYCLE / PEDESTRIAN TRAILS	SN 001-F003.2 NEW CONSTRUCTION STRUCTURE	SN 001-F003.3 NEW CONSTRUCTION STRUCTURE
				0028 URBAN	0028 URBAN	0028 URBAN
51604000	DRILLED SHAFT IN ROCK	CU YD	3.2		1.6	1.6
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	477	477		
52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	615	615		
52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	371.5	371.5		
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2		
54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	FOOT	264	264		
54011006	PRECAST CONCRETE BOX CULVERTS 10' X 6'	FOOT	28	28		
* 54213459	END SECTIONS 24"	EACH	2	2		
* 54214299	END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2	2		
542C0229	PIPE CULVERTS, CLASS C, TYPE 1 24"	FOOT	34	34		
542C5479	PIPE CULVERTS, CLASS C, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	30	30		
550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	FOOT	36	36		
58700300	CONCRETE SEALER	SQ FT	544		272	272
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	529	449	40	40
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	8	8		

* SEE SPECIAL PROVISIONS △ SPECIALTY ITEMS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 4 OF 8 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	6
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PPS#		
				FACILITIES FOR BICYCLE / PEDESTRIAN TRAILS	SN 001-F003.2 NEW CONSTRUCTION STRUCTURE	SN 001-F003.3 NEW CONSTRUCTION STRUCTURE
				0028 URBAN	0028 URBAN	0028 URBAN
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	73	73		
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1		
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1		
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3		
* 60801018	FLAP GATE 18"	EACH	1	1		
67100100	MOBILIZATION	LSUM	1	1		
* 70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1	1		
* 70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1		
△ 72000100	SIGN PANEL - TYPE 1	SQ FT	21	21		
△ * 72900100	METAL POST - TYPE A	FOOT	160	160		
△ 73000100	WOOD SIGN SUPPORT	FOOT	50	50		
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3988	3988		
△ 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	6	6		
△ * Z0001110	GAS VALVE TO BE ADJUSTED	EACH	1	1		
* Z0012450	CONCRETE STEPS	CU YD	6.5	6.5		

* SEE SPECIAL PROVISIONS △ SPECIALTY ITEMS

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93711	

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				0028 URBAN	0028 URBAN	0028 URBAN
* Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	618	424	97	97
* Z0054406	ROCKFILL-FOUNDATION	CU YD	250	250		
△ * Z0055900	RUSTIC WOOD POST AND RAIL FENCE	FOOT	134	134		
* Z0065796	RIPRAP SLURRY	SQ YD	375	375		
# * Z0076600	TRAINEES	HOUR	1000	1000		
# * Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000		
△ A2001120	TREE, ACER RUBRUM OCTOBER GLORY (OCTOBER GLORY RED MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	9	9		
△ A2001724	TREE, ACER SACCHARUM (SUGAR MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
△ A2002366	TREE, BETULA NIGRA (RIVER BIRCH), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	13	13		
△ A2007666	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	17	17		
△ B2000900	TREE, AMELANCHIER ARBOREA (DOWNY SERVICEBERRY), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	2	2		
△ B2001112	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 1-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	1	1		
△ D2001772	EVERGREEN, PICEA ABIES (NORWAY SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	5	5		
△ E20020G6	VINE-CAMPIS RADICANS (TRUMPET VINE), 1-GALLON POT	EACH	5	5		

* SEE SPECIAL PROVISIONS △ SPECIALTY ITEMS # 0042

KLINGNER & ASSOCIATES, P.C.
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 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3570
 STATE OF ILLINOIS DESIGN FIRM NO. 164-2758

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE	SHEET 6 OF 8 SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	8
CONTRACT NO. 93711			ILLINOIS FED. AID PROJECT	

DRIVEWAY PAVEMENT REMOVAL

44000200

STATION	SIDE	TYPE	SO YD
WISMANN LANE SPUR			
3+39.1	LT & RT	CONC	77.8
4+34.3	LT & RT	CONC	40.8
TOTAL			118.6
USE			119

CHAIN LINK FENCE, 4' (SPECIAL)

X6640550

STATION TO STATION	SIDE	FOOT
BILL KLINGNER TRAIL		
157+65.0 158+50.0	RT	89.0
160+04.2 160+95.0	RT	89.0
160+60.2 160+85.6	RT	36.0
161+06.5 161+46.3	LT & RT	76.0
TOTAL		290.0
USE		290

CHAIN LINK FENCE, 6' (SPECIAL)

X6640560

STATION TO STATION	SIDE	FOOT
BILL KLINGNER TRAIL		
150+25.0 154+05.0	RT	373.0
TOTAL		373.0
USE		373

• SEE ALSO PEDESTRIAN BRIDGE PLANS

RUSTIC WOOD POST AND RAIL FENCE

Z0055900

STATION TO STATION	SIDE	FOOT
BILL KLINGNER TRAIL		
128+88.0 129+55.0	LT	67.0
128+88.0 129+55.0	RT	67.0
TOTAL		134.0
USE		134

GAS VALVE TO BE ADJUSTED

Z0001110

STATION	SIDE	OFFSET	EACH
WISMANN LANE SPUR			
2+88.1	LT	0.3	1
TOTAL			1

MANHOLES TO BE ADJUSTED

60255500

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
130+72.6	RT	2.1	1
134+68.1	RT	14.8	1
138+71.4	LT	20.5	1
TOTAL			3

REMOVE AND REINSTALL LIGHT POLES

X0324534

STATION	SIDE	OFFSET	LSUM
WISMANN LANE SPUR			
3+13.7	RT	2.2	0.3
3+71.2	RT	3.7	0.3
4+57.8	RT	3.6	0.3
TOTAL			1

SIGNING SCHEDULE

72000100 X7200105 X7200205 72900100 73000100 X0327008

PLAN LABEL	STATION	SIDE	FACING	MUTCD	SIZE	DESCRIPTION	SIGN PANEL			METAL POST TYPE A	WOOD SIGN SUPPORT	REMOVE AND RELOCATE SIGN (SPECIAL)
							TYPE 1	TYPE 1 (SPECIAL)	TYPE 2 (SPECIAL)			
							SQ FT					
BILL KLINGNER TRAIL												
1	135+75.0	RT	EAST/WEST		24x6	NORTH 19th STREET			1.0		9.0	
6	140+25.0	RT	EAST/WEST		24x6	NORTH 20th STREET			1.0		9.0	
7	144+25.0	RT	EAST/WEST		24x6	NORTH 21st STREET			1.0		9.0	
8	148+50.0	RT	EAST/WEST		24x6	NORTH 22nd STREET			1.0		9.0	
9	153+25.0	RT	EAST/WEST		24x6	NORTH 23rd STREET			1.0		9.0	
10	156+05.0	RT	WEST	R2-5a	18x24	REDUCED SPEED AHEAD	3.0				11.0	
11	156+95.0	RT	WEST	R2-1	18x24	15 MPH	3.0				11.0	
12	157+25.0	LT	SOUTH		70x36	RECREATIONAL SIGN 1				17.5		29.0
			SOUTH		70x12	RECREATIONAL SIGN 2			5.8			
16	160+80.0	LT	SOUTH	R2-1	18x24	15 MPH	3.0				7.0	
17	161+00.0	RT	NORTH	R9	12x18	CYCLISTS DISMOUNT	1.5				10.5	
18	161+10.0	LT	WEST		70x36	RECREATIONAL SIGN 1				17.5		21.0
			WEST		70x12	RECREATIONAL SIGN 2			5.8			
19	161+18.0	LT & RT	NORTH	OM4-1	18x18	END OF ROAD MARKER					31.5	3
20	161+02.0	RT	WEST	R9	12x18	CYCLISTS DISMOUNT	1.5				10.5	
WISMANN LANE SPUR												
13	0+20.0	LT	SOUTH	R1-1	18x18	STOP	2.3				11.0	
14	0+20.0	RT	WEST	R2-1	18x24	15 MPH	3.0				11.0	
15	2+50.0	LT	SOUTH	R2-1	18x24	15 MPH	3.0				11.0	
TOTALS							20.3	16.6	35.0	159.5	50.0	3
USE							21	17	35	160	50	3

• SIGNS RELOCATED FROM STA 129+88.0

PAINT PAVEMENT MARKING - LINE 4"

78001110

STATION TO STATION	SIDE	DESCRIPTION	WHITE	YELLOW
			FOOT	
BILL KLINGNER TRAIL				
128+88.0 161+17.0	CL	SOLID CENTERLINE		3229.0
158+00.0 160+15.0	RT	SOLID EDGE	215.0	
158+00.0 160+15.0	RT	DIAGONAL	100.0	
WISMANN LANE SPUR				
0+11.1 4+55.0	CL	SOLID CENTERLINE		443.9
TOTAL			315.0	3672.9
USE				3988

PAINT PAVEMENT MARKING - LINE 24"

78001180

STATION	SIDE	DESCRIPTION	WHITE
			FOOT
WISMANN LANE SPUR			
0+11.1	LT	STOP BAR	6.0
TOTAL			6.0
USE			6

PIPE HANDRAIL, SPECIAL

X5091765

STATION TO STATION	SIDE	DESCRIPTION	FOOT
BILL KLINGNER TRAIL			
160+68 161+06	RT	OUTSIDE OF RAMP	109
160+68 161+06	RT	INSIDE OF RAMP	73
160+68 161+06	RT	ALONG STAIRS	24
TOTAL			206

NOTE: THIS ITEM USED ALONG THE RAMP PAVEMENT FROM THE TRAIL TO IL 96 SIDEWALK (SEE GEOMETRIC AND MISCELLANEOUS DETAILS).

CONCRETE STEPS

Z0012450

STATION TO STATION	SIDE	CU YD
BILL KLINGNER TRAIL		
160+68 161+06	RT	6.5
TOTAL		6.5

NOTE: THIS ITEM USED ALONG THE RAMP PAVEMENT FROM THE TRAIL TO IL 96 SIDEWALK (SEE GEOMETRIC AND MISCELLANEOUS DETAILS).

FILE NAME = D:\15\150955\05\Plans\Current\DOT - Sheets\CADD - Structures\CADD - Sheets\16-P4003-04-BT - Schedule.scdgn



USER NAME = ebb
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 PLOT SCALE = 48.0000' / in.
 PLOT DATE = 10/5/2018

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

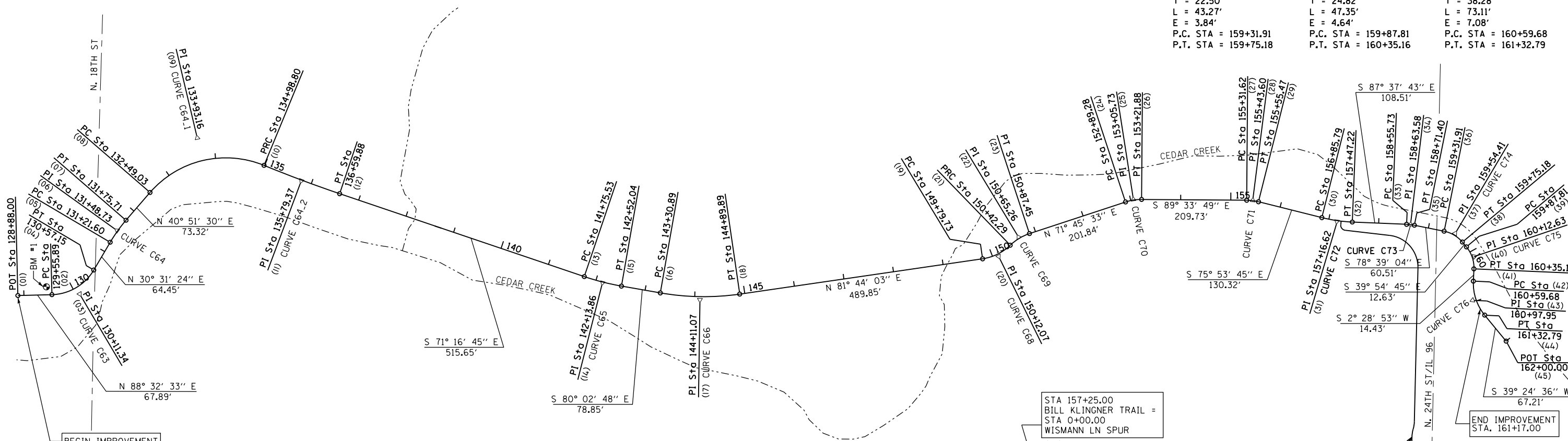
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	15
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

PROP. CURVE C63 PI STA. = 130+11.34 Δ = 58° 01' 10" (LT) D = 57° 17' 45" R = 100.00' T = 55.45' L = 101.26' E = 14.35' P.C. STA = 129+55.89 P.T. STA = 130+57.15	PROP. CURVE C64 PI STA. = 131+48.73 Δ = 10° 20' 06" (RT) D = 19° 05' 55" R = 300.00' T = 27.13' L = 54.11' E = 1.22' P.C. STA = 131+21.60 P.T. STA = 131+75.71	PROP. CURVE C64.1 PI STA. = 133+93.16 Δ = 71° 33' 14" (RT) D = 28° 38' 52" R = 200.00' T = 144.12' L = 249.77' E = 46.52' P.C. STA = 132+49.03 P.T. STA = 134+98.80	PROP. CURVE C64.2 PI STA. = 135+79.37 Δ = 3° 41' 30" (LT) D = 2° 17' 31" R = 2,500.00' T = 80.57' L = 161.07' E = 1.30' P.C. STA = 134+98.80 P.T. STA = 136+59.88	PROP. CURVE C65 PI STA. = 142+13.86 Δ = 8° 46' 02" (LT) D = 11° 27' 33" R = 500.00' T = 38.33' L = 76.51' E = 1.47' P.C. STA = 141+75.53 P.T. STA = 142+52.04	PROP. CURVE C66 PI STA. = 144+11.07 Δ = 18° 13' 09" (LT) D = 11° 27' 33" R = 500.00' T = 80.17' L = 158.99' E = 6.39' P.C. STA = 143+30.89 P.T. STA = 144+89.89	PROP. CURVE C68 PI STA. = 150+12.07 Δ = 35° 50' 46" (LT) D = 57° 17' 45" R = 100.00' T = 32.34' L = 62.56' E = 5.10' P.C. STA = 149+79.73 P.T. STA = 150+42.29	PROP. CURVE C69 PI STA. = 150+65.26 Δ = 25° 52' 16" (RT) D = 57° 17' 45" R = 100.00' T = 22.97' L = 45.15' E = 2.60' P.C. STA = 150+42.29 P.T. STA = 150+87.45	PROP. CURVE C70 PI STA. = 153+05.73 Δ = 18° 40' 39" (RT) D = 57° 17' 45" R = 100.00' T = 16.44' L = 32.60' E = 1.34' P.C. STA = 152+89.28 P.T. STA = 153+21.88	PROP. CURVE C71 PI STA. = 155+43.60 Δ = 13° 40' 03" (RT) D = 57° 17' 45" R = 100.00' T = 11.98' L = 23.85' E = 0.72' P.C. STA = 155+31.62 P.T. STA = 155+55.47	PROP. CURVE C72 PI STA. = 157+16.62 Δ = 11° 43' 58" (LT) D = 19° 05' 55" R = 300.00' T = 30.82' L = 61.43' E = 1.58' P.C. STA = 156+85.79 P.T. STA = 157+47.22	PROP. CURVE C73 PI STA. = 158+63.58 Δ = 8° 58' 39" (RT) D = 57° 17' 46" R = 100.00' T = 7.85' L = 15.67' E = 0.31' P.C. STA = 158+55.73 P.T. STA = 158+71.40
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PROP. CURVE C74 PI STA. = 159+54.41 Δ = 38° 44' 29" (RT) D = 89° 31' 29" R = 64.00' T = 22.50' L = 43.27' E = 3.84' P.C. STA = 159+31.91 P.T. STA = 159+75.18	PROP. CURVE C75 PI STA. = 160+12.63 Δ = 42° 23' 37" (RT) D = 89° 31' 28" R = 64.00' T = 24.82' L = 47.35' E = 4.64' P.C. STA = 159+87.81 P.T. STA = 160+35.16	PROP. CURVE C76 PI STA. = 160+97.95 Δ = 41° 53' 29" (LT) D = 57° 17' 45" R = 100.00' T = 38.28' L = 73.11' E = 7.08' P.C. STA = 160+59.68 P.T. STA = 161+32.79
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BEGIN IMPROVEMENT STA. 128+88.00

BM #1
RAILROAD SPIKE IN EAST FACE POWER POLE NORTH SIDE CEDAR CREEK WEST SIDE NORTH 18TH STREET
STA 129+45.36, 15.9' LT
ELEV 565.15 (NAVD 1988 DATUM)

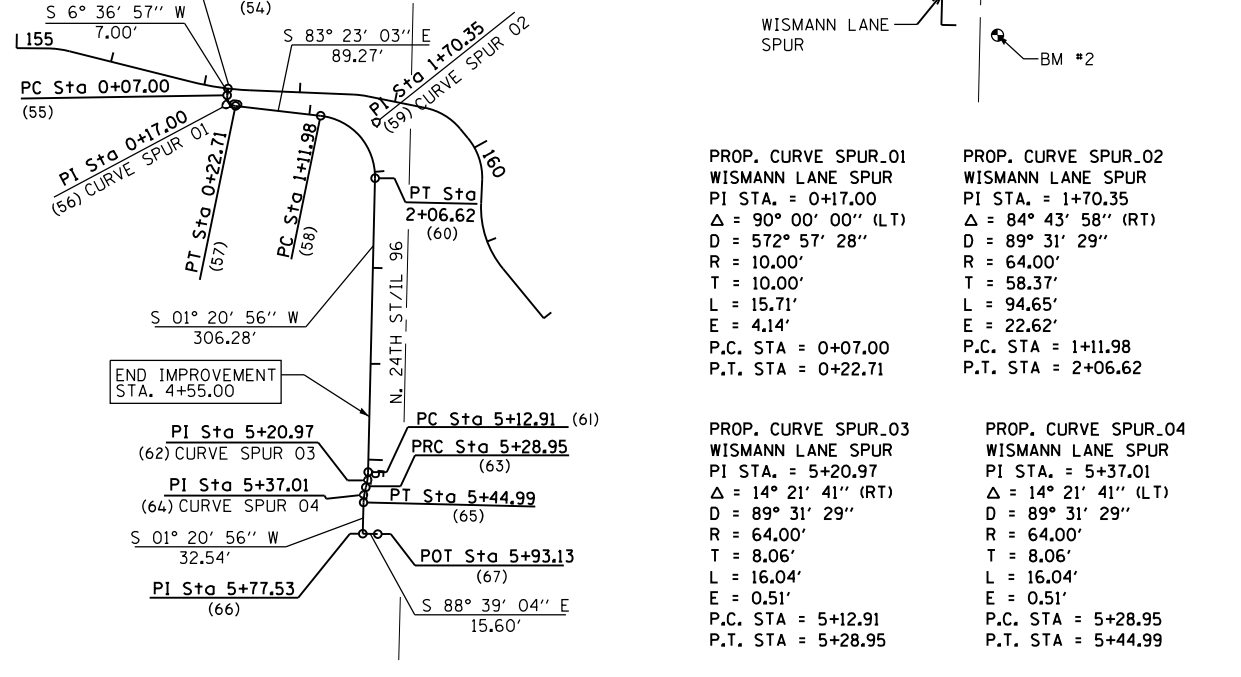
BM #2
SET CHSLD "C" WEST SIDE TRAFFIC SIGNAL POLE IN ISLAND AT NORTH 24TH STREET & WISMANN LANE
ELEV 591.45 (NAVD 1988 DATUM)

GRAPHIC SCALE (IN FEET)

BILL KLINGNER TRAIL - CONTROL POINTS		
POINT #	NORTHING	EASTING
01	1,200,941.9074	1,954,350.1921
02	1,200,943.6340	1,954,418.0567
03	1,200,945.0444	1,954,473.4917
04	1,200,992.8129	1,954,501.6556
05	1,201,048.3283	1,954,534.3869
06	1,201,071.6995	1,954,548.1664
07	1,201,092.2193	1,954,565.9152
08	1,201,147.6767	1,954,613.8833
09	1,201,256.6806	1,954,708.1668
10	1,201,201.7313	1,954,841.4028
11	1,201,171.0143	1,954,915.8826
12	1,201,145.1564	1,954,992.1856
13	1,200,979.6547	1,955,480.5579
14	1,200,967.3527	1,955,516.8596
15	1,200,960.7276	1,955,554.6122
16	1,200,947.0986	1,955,632.2750
17	1,200,933.2409	1,955,711.2417
18	1,200,944.7673	1,955,790.5822
19	1,201,015.1912	1,956,275.3390
20	1,201,019.8412	1,956,307.3466
21	1,201,042.3543	1,956,330.5686
22	1,201,058.3418	1,956,347.0594
23	1,201,065.5312	1,956,368.8736
24	1,201,128.7085	1,956,560.5670
25	1,201,133.8559	1,956,576.1856
26	1,201,133.7307	1,956,592.6301

BILL KLINGNER TRAIL - CONTROL POINTS		
POINT #	NORTHING	EASTING
27	1,201,132.1330	1,956,802.3576
28	1,201,132.0417	1,956,814.3414
29	1,201,129.1213	1,956,825.9643
30	1,201,097.3639	1,956,952.3577
31	1,201,089.8525	1,956,982.2528
32	1,201,088.5772	1,957,013.0507
33	1,201,084.0878	1,957,121.4634
34	1,201,083.7630	1,957,129.3072
35	1,201,082.2182	1,957,137.0041
36	1,201,070.3108	1,957,196.3317
37	1,201,065.8833	1,957,218.3913
38	1,201,048.6255	1,957,232.8274
39	1,201,038.9388	1,957,240.9303
40	1,201,019.9013	1,957,256.8552
41	1,200,995.1046	1,957,255.7806
42	1,200,970.6153	1,957,254.7194
43	1,200,932.3735	1,957,253.0622
44	1,200,902.7993	1,957,277.3635
45	1,200,850.8726	1,957,320.0320

WISMANN LANE SPUR - CONTROL POINTS		
POINT #	NORTHING	EASTING
54	1,201,090.3180	1,956,990.8992
55	1,201,083.3646	1,956,990.0927
56	1,201,073.4312	1,956,988.9405
57	1,201,072.2791	1,956,998.8740
58	1,201,061.9942	1,957,087.5485
59	1,201,055.2690	1,957,145.5311
60	1,200,996.9139	1,957,144.1571
61	1,200,690.7144	1,957,136.9476
62	1,200,682.6534	1,957,136.7578
63	1,200,674.8913	1,957,134.5745
64	1,200,667.1293	1,957,132.3912
65	1,200,659.0683	1,957,132.2014
66	1,200,626.5415	1,957,131.4355
67	1,200,626.1744	1,957,147.0286



PROP. CURVE SPUR_01 WISMANN LANE SPUR PI STA. = 0+17.00 Δ = 90° 00' 00" (LT) D = 572° 57' 28" R = 10.00' T = 10.00' L = 15.71' E = 4.14' P.C. STA = 0+07.00 P.T. STA = 0+22.71	PROP. CURVE SPUR_02 WISMANN LANE SPUR PI STA. = 1+70.35 Δ = 84° 43' 58" (RT) D = 89° 31' 29" R = 64.00' T = 58.37' L = 94.65' E = 22.62' P.C. STA = 1+11.98 P.T. STA = 2+06.62	PROP. CURVE SPUR_03 WISMANN LANE SPUR PI STA. = 5+20.97 Δ = 14° 21' 41" (RT) D = 89° 31' 29" R = 64.00' T = 8.06' L = 16.04' E = 0.51' P.C. STA = 5+12.91 P.T. STA = 5+28.95	PROP. CURVE SPUR_04 WISMANN LANE SPUR PI STA. = 5+37.01 Δ = 14° 21' 41" (LT) D = 89° 31' 29" R = 64.00' T = 8.06' L = 16.04' E = 0.51' P.C. STA = 5+28.95 P.T. STA = 5+44.99
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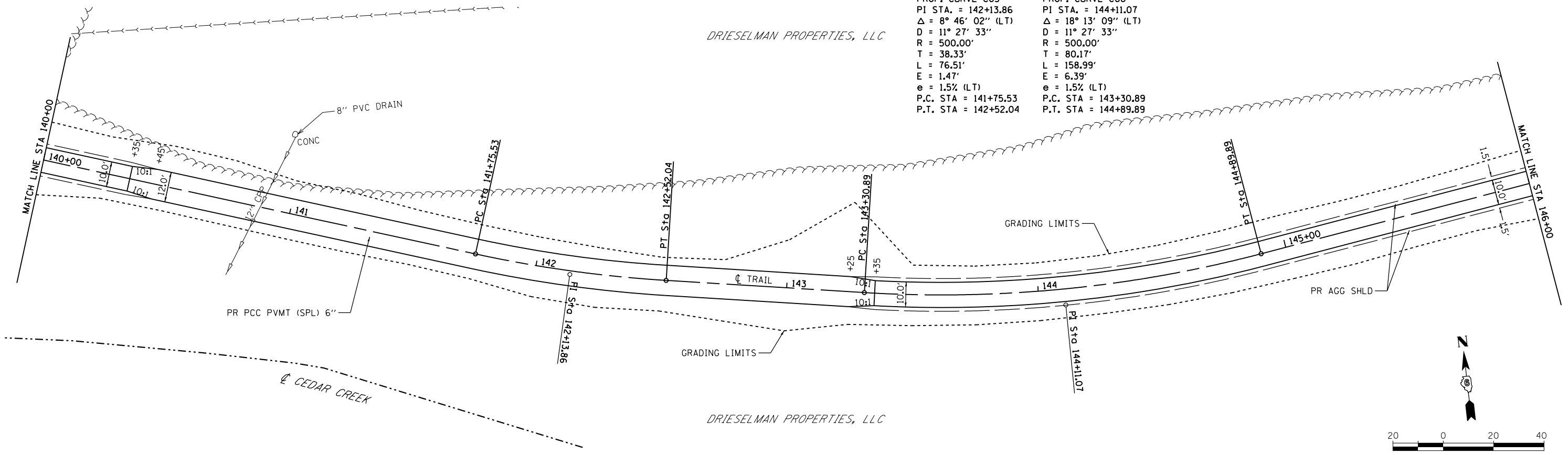
SEC 25, T 1 S, R 9 W, 4th PM

DRIESELMAN PROPERTIES, LLC

PROP. CURVE C65
 PI STA. = 142+13.86
 $\Delta = 8^\circ 46' 02''$ (LT)
 D = 11° 27' 33"
 R = 500.00'
 T = 38.33'
 L = 76.51'
 E = 1.47'
 e = 1.5% (LT)
 P.C. STA = 141+75.53
 P.T. STA = 142+52.04

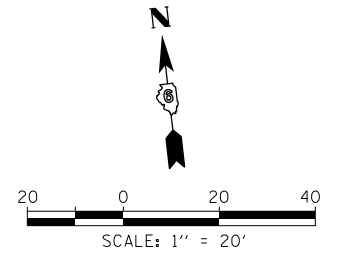
PROP. CURVE C66
 PI STA. = 144+11.07
 $\Delta = 18^\circ 13' 09''$ (LT)
 D = 11° 27' 33"
 R = 500.00'
 T = 80.17'
 L = 158.99'
 E = 6.39'
 e = 1.5% (LT)
 P.C. STA = 143+30.89
 P.T. STA = 144+89.89

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

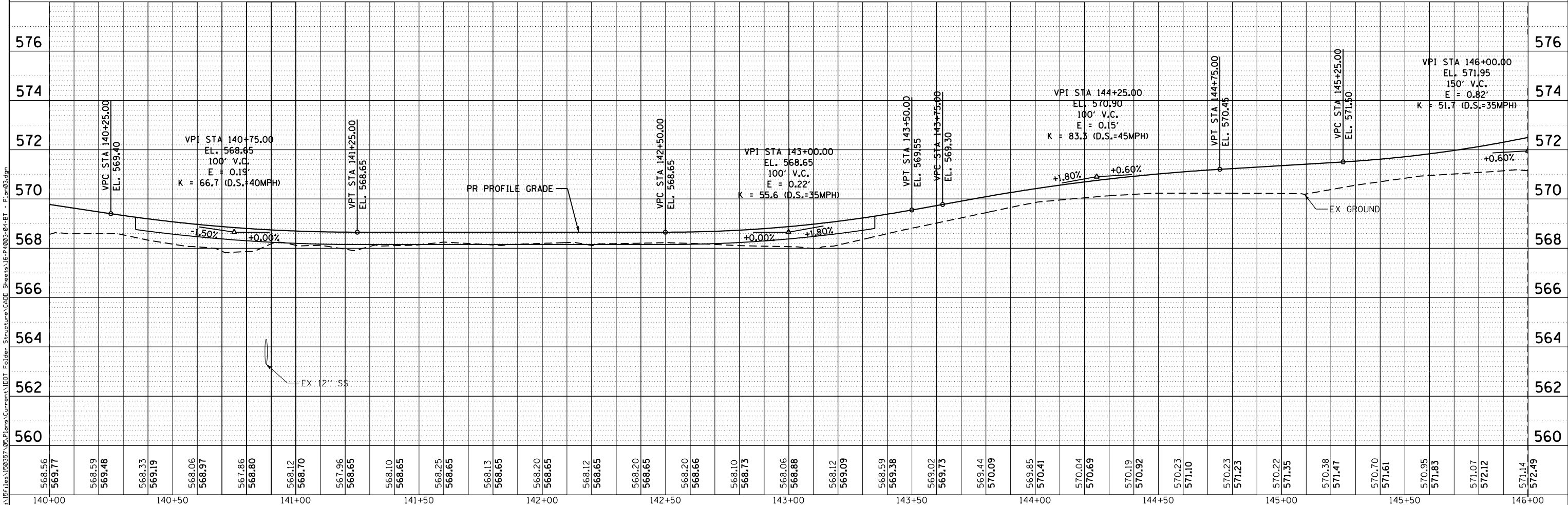


DRIESELMAN PROPERTIES, LLC

SEC 25, T 1 S, R 9 W, 4th PM



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



KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217-223-3870
 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME = ebb
PLOT SCALE = 40.0000' / in.
PLOT DATE = 10/5/2018

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

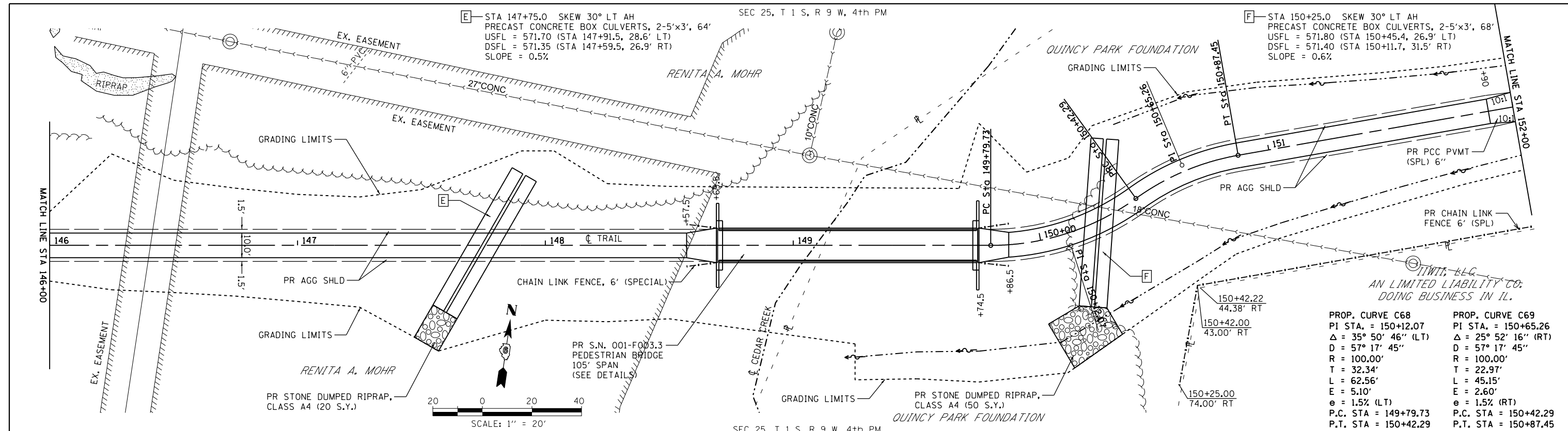
BILL KLINGNER TRAIL
 PLAN & PROFILE

SCALE: 1"=20' SHEET 3 OF 9 SHEETS STA. 140+00 TO STA. 146+00

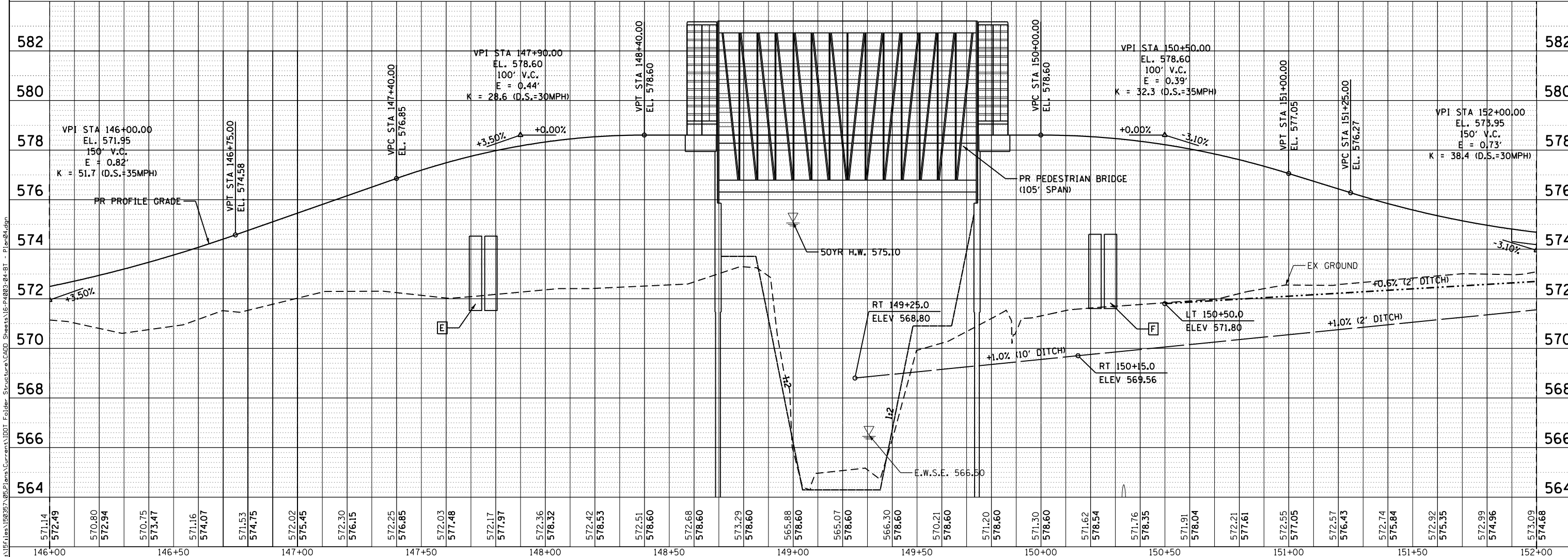
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	20
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

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



PROP. CURVE C68	PROP. CURVE C69
PI STA. = 150+12.07	PI STA. = 150+65.26
Δ = 35° 50' 46" (LT)	Δ = 25° 52' 16" (RT)
D = 57° 17' 45"	D = 57° 17' 45"
R = 100.00'	R = 100.00'
T = 32.34'	T = 22.97'
L = 62.56'	L = 45.15'
E = 5.10'	E = 2.60'
e = 1.5% (LT)	e = 1.5% (RT)
P.C. STA = 149+79.73	P.C. STA = 150+42.29
P.T. STA = 150+42.29	P.T. STA = 150+87.45



KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N. 24TH ST., QUINCY, ILLINOIS 62301 217-223-3870
STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BILL KLINGNER TRAIL
PLAN & PROFILE**

SCALE: 1"=20' SHEET 4 OF 9 SHEETS STA. 146+00 TO STA. 152+00

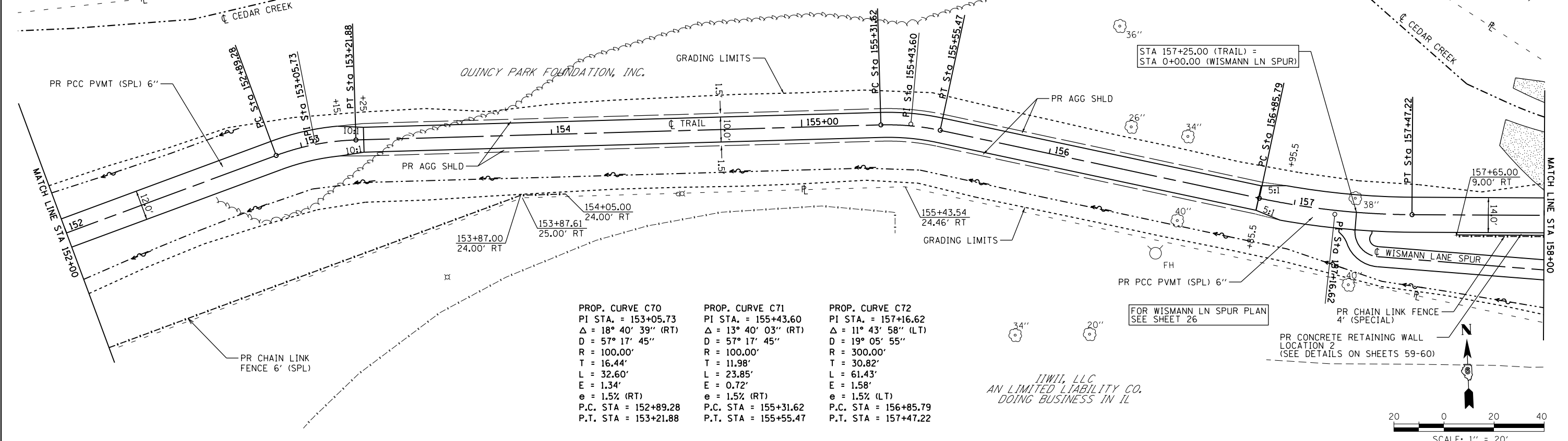
F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	21
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

JAMES B. & ANN M. VANDIVER BROWN REALTY OF QUINCY, LLC

SEC 25, T 1 S, R 9 W, 4th PM

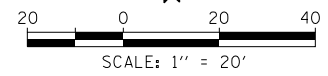
BROWN REALTY OF QUINCY, LLC

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	



<p>PROP. CURVE C70 PI STA. = 153+05.73 $\Delta = 18^\circ 40' 39''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 16.44'$ $L = 32.60'$ $E = 1.34'$ $e = 1.5\%$ (RT) P.C. STA = 152+89.28 P.T. STA = 153+21.88</p>	<p>PROP. CURVE C71 PI STA. = 155+43.60 $\Delta = 13^\circ 40' 03''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 11.98'$ $L = 23.85'$ $E = 0.72'$ $e = 1.5\%$ (RT) P.C. STA = 155+31.62 P.T. STA = 155+55.47</p>	<p>PROP. CURVE C72 PI STA. = 157+16.62 $\Delta = 11^\circ 43' 58''$ (LT) $D = 19^\circ 05' 55''$ $R = 300.00'$ $T = 30.82'$ $L = 61.43'$ $E = 1.58'$ $e = 1.5\%$ (LT) P.C. STA = 156+85.79 P.T. STA = 157+47.22</p>
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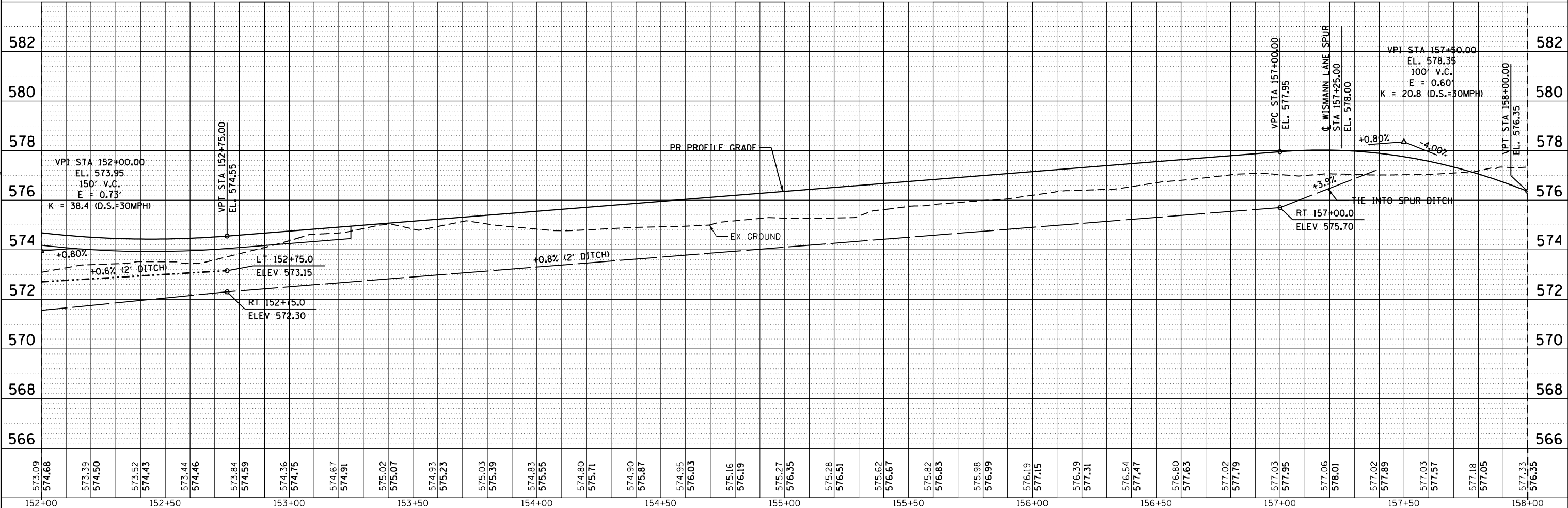
IIWII, LLC
 AN LIMITED LIABILITY CO.
 DOING BUSINESS IN IL



SEC 25, T 1 S, R 9 W, 4th PM

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

FILE NAME: G:\Projects\159257\05\Files\Current\1001\Folder_Structure\CADD_Sheets\15-P4003-04-BT - Plan05.dgn



KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 616 N. 24TH ST., QUINCY, ILLINOIS 62301 217-223-3870
 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME = ebb
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 10/5/2018

DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BILL KLINGNER TRAIL
 PLAN & PROFILE

SCALE: 1"=20' SHEET 5 OF 9 SHEETS STA. 152+00 TO STA. 158+00

F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	22
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

SEC 30, T 1 S, R 8 W, 4th PM

PR CONCRETE RETAINING WALL
LOCATION 3
(SEE DETAILS ON SHEETS 61-66)

PROP. CURVE C73
PI STA. = 158+63.58
 $\Delta = 8^\circ 58' 39''$ (RT)
D = 57° 17' 46"
R = 100.00'
T = 7.85'
L = 15.67'
E = 0.31'
e = 1.5% (RT)
P.C. STA = 158+55.73
P.T. STA = 158+71.40

PR CHAIN LINK FENCE
4" (SPECIAL)
PR CONCRETE RETAINING WALL
LOCATION 2
(SEE DETAILS ON SHEETS 59-60)
PR PCC SIDEWALK, 4"

PROP. CURVE C74
PI STA. = 159+54.41
 $\Delta = 38^\circ 44' 20''$ (RT)
D = 89° 31' 29"
R = 64.00'
T = 22.50'
L = 43.27'
E = 3.84'
e = 1.5% (RT)
P.C. STA = 159+31.91
P.T. STA = 159+75.18

PROP. CURVE C75
PI STA. = 160+12.63
 $\Delta = 42^\circ 23' 37''$ (RT)
D = 89° 31' 28"
R = 64.00'
T = 24.82'
L = 47.35'
E = 4.64'
e = 1.5% (RT)
P.C. STA = 159+87.81
P.T. STA = 160+35.16

PROP. CURVE C76
PI STA. = 160+97.03
 $\Delta = 73^\circ 05' 37''$ (RT)
D = 89° 31' 29"
R = 64.00'
T = 47.44'
L = 81.65'
E = 15.66'
e = 1.5% (LT)
P.C. STA = 160+49.59
P.T. STA = 161+31.24

G— STA 1+25.0 18.1' RT WISMANN LN SPUR
INLETS, TYPE B, WITH TY 8 GRATE, 1 EACH
TOP OF GRATE EL = 577.60
FL = 571.75

H— STORM SEWERS, CLASS B, TYPE 2 12", 36'
USFL = 572.25
DSFL = 571.50
SLOPE = 2.1%
TRENCH BACKFILL = 16.5 CU YD

J— STA 158+50.0 10.0' RT
MANHOLES, TYPE A, 4' DIAMETER WITH TY 8 GRATE, 1 EACH
TOP OF GRATE EL = 574.18
FL = 569.10

K— STORM SEWERS, DUCTILE IRON, TYPE 2 18", 18'
USFL = 569.70
DSFL = 569.60 (158+45.0, 8.0' LT OUTLET THROUGH RETAINING WALL)
SLOPE = 0.6%
TRENCH BACKFILL = 4.1 CU YD
FLAP GATE 18", 1 EACH

L— STORM SEWERS, DUCTILE IRON, TYPE 2 12", 74'
USFL = 570.10
DSFL = 569.70
SLOPE = 0.5%
TRENCH BACKFILL = 12.3 CU YD

M— STA 159+31.1 10.0' RT
TRENCH DRAIN, 10'
USFL = 570.55 (159+36.9, 9.9' RT)
DSFL = 570.10 (159+26.1, 10.9' RT)

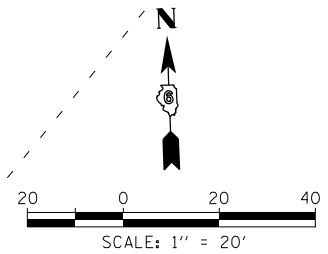
IIWT, LLC
AN LIMITED LIABILITY CO.
DOING BUSINESS IN IL.

FOR WISMANN LN SPUR PLAN
SEE SHEET 26

STA 28+21.47
33.18' RT (IL 96)
STA 0+00.00 (RAMP)

FOR RAMP PLAN
SEE SHEET 33

END IMPROVEMENTS
STA 161+17.00



SEC 25, T 1 S, R 9 W, 4th PM

SEC 30, T 1 S, R 8 W, 4th PM

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-2670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BILL KLINGNER TRAIL
PLAN

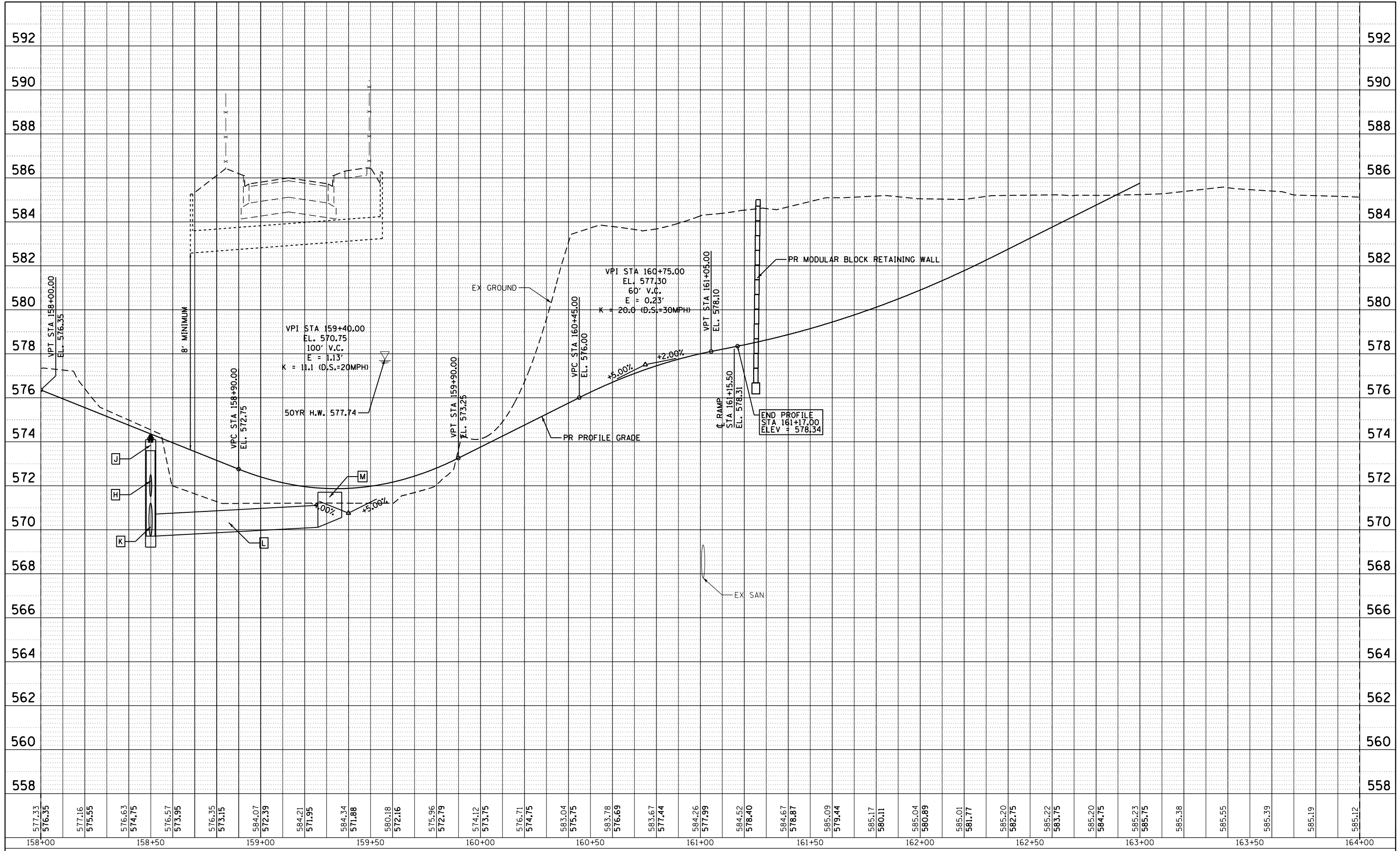
SCALE: 1"=20' SHEET 6 OF 9 SHEETS STA. 158+00 TO STA. 161+17

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	23
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	CARD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO.		
	CARD FILE NAME		

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USER NAME = ebb	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

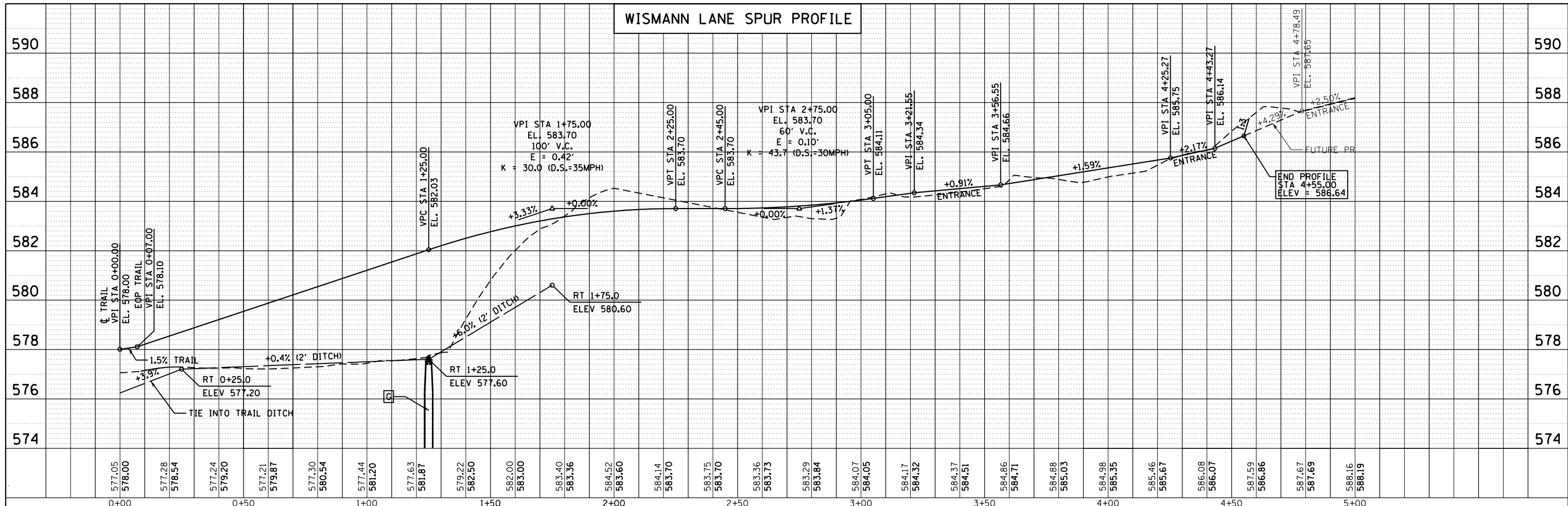
BILL KLINGNER TRAIL PROFILE			
SCALE: 1"=20'	SHEET 7	OF 9 SHEETS	STA. 158+00 TO STA. 161+10

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	24
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

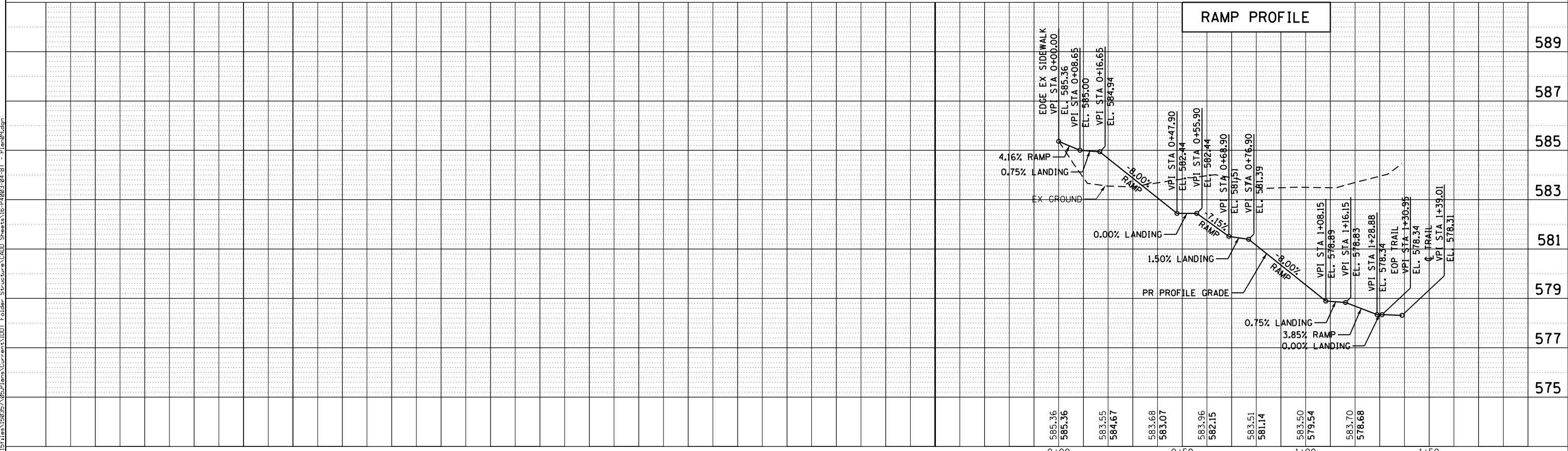
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	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

WISMANN LANE SPUR PROFILE



RAMP PROFILE



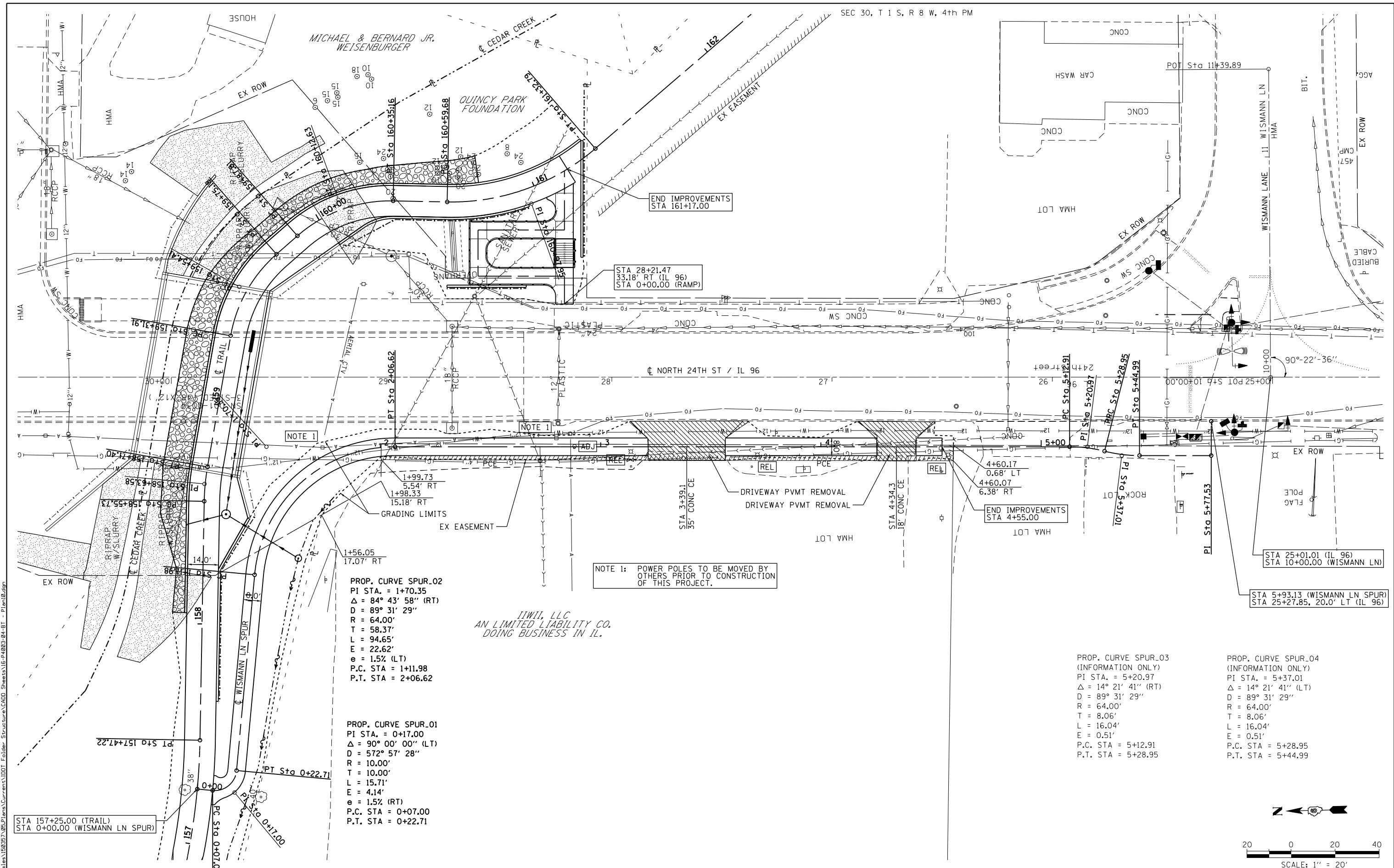
KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 616 N. 24TH ST. QUINCY, ILLINOIS 62301-2123, 618-707-1234
 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BILL KLINGNER TRAIL PROFILE			
SCALE: 1"=20'	SHEET 8	OF 9 SHEETS	STA. 158+00 TO STA. 161+10

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	25
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				



NOTE 1: POWER POLES TO BE MOVED BY OTHERS PRIOR TO CONSTRUCTION OF THIS PROJECT.

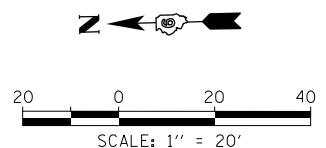
IIWII, LLC
AN LIMITED LIABILITY CO.
DOING BUSINESS IN IL.

PROP. CURVE SPUR_02
PI STA. = 1+70.35
Δ = 84° 43' 58" (RT)
D = 89° 31' 29"
R = 64.00'
T = 58.37'
L = 94.65'
E = 22.62'
e = 1.5% (LT)
P.C. STA = 1+11.98
P.T. STA = 2+06.62

PROP. CURVE SPUR_01
PI STA. = 0+17.00
Δ = 90° 00' 00" (LT)
D = 572° 57' 28"
R = 10.00'
T = 10.00'
L = 15.71'
E = 4.14'
e = 1.5% (RT)
P.C. STA = 0+07.00
P.T. STA = 0+22.71

PROP. CURVE SPUR_03
(INFORMATION ONLY)
PI STA. = 5+20.97
Δ = 14° 21' 41" (RT)
D = 89° 31' 29"
R = 64.00'
T = 8.06'
L = 16.04'
E = 0.51'
P.C. STA = 5+12.91
P.T. STA = 5+28.95

PROP. CURVE SPUR_04
(INFORMATION ONLY)
PI STA. = 5+37.01
Δ = 14° 21' 41" (LT)
D = 89° 31' 29"
R = 64.00'
T = 8.06'
L = 16.04'
E = 0.51'
P.C. STA = 5+28.95
P.T. STA = 5+44.99



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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

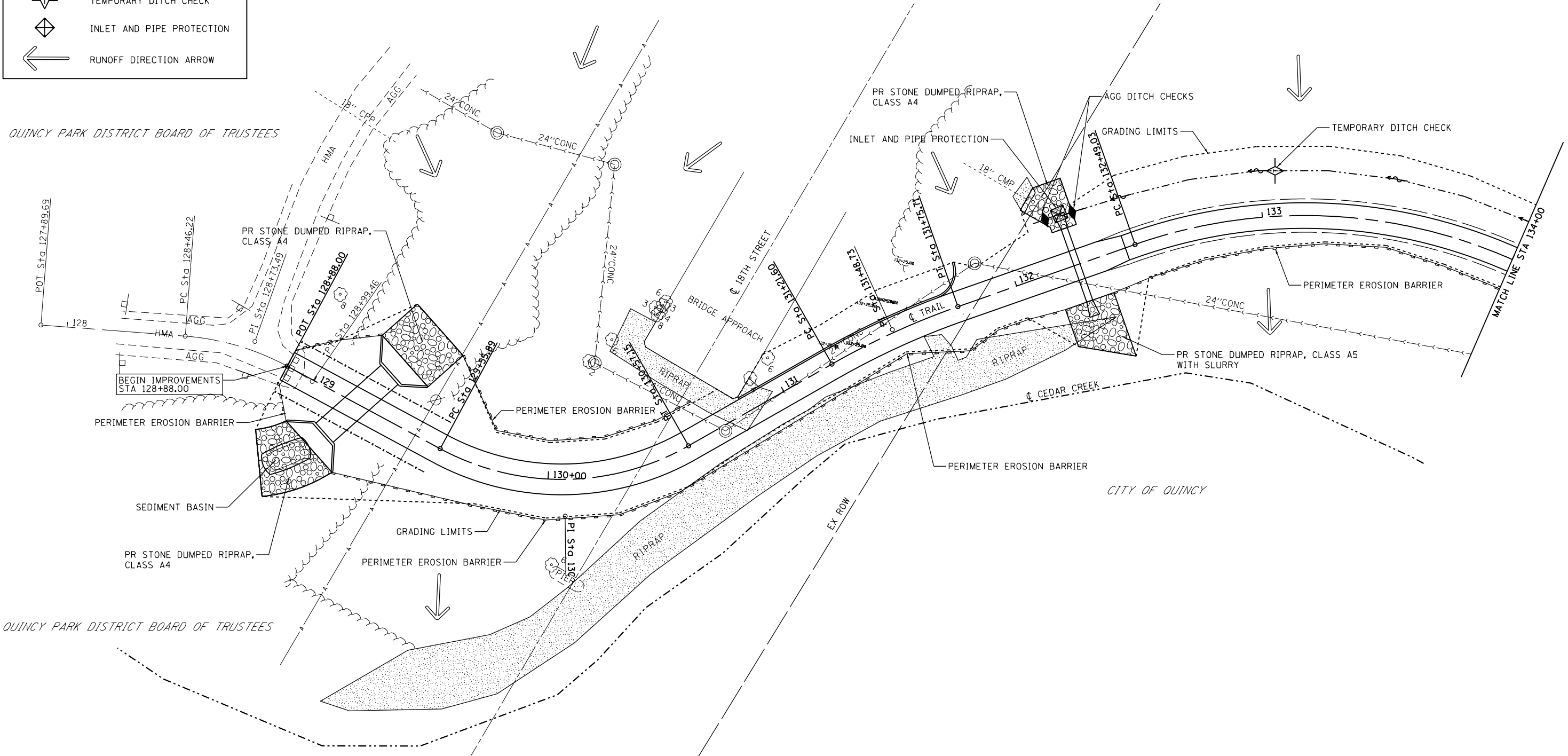
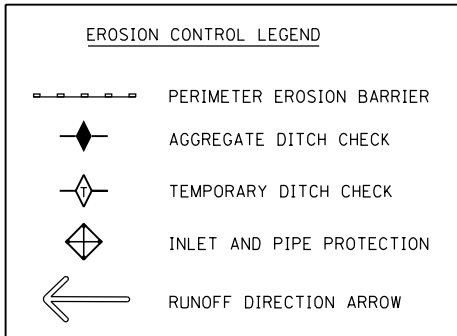
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PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL
PLAN**

SCALE: 1"=20' SHEET 9 OF 9 SHEETS STA. 158+00 TO STA. 161+17

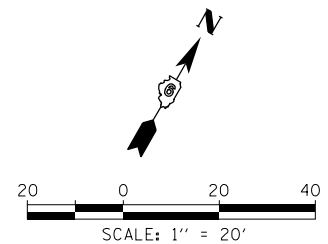
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	26
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



QUINCY PARK DISTRICT BOARD OF TRUSTEES

CITY OF QUINCY

QUINCY PARK DISTRICT BOARD OF TRUSTEES



KLINGNER & ASSOCIATES, P.C.
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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

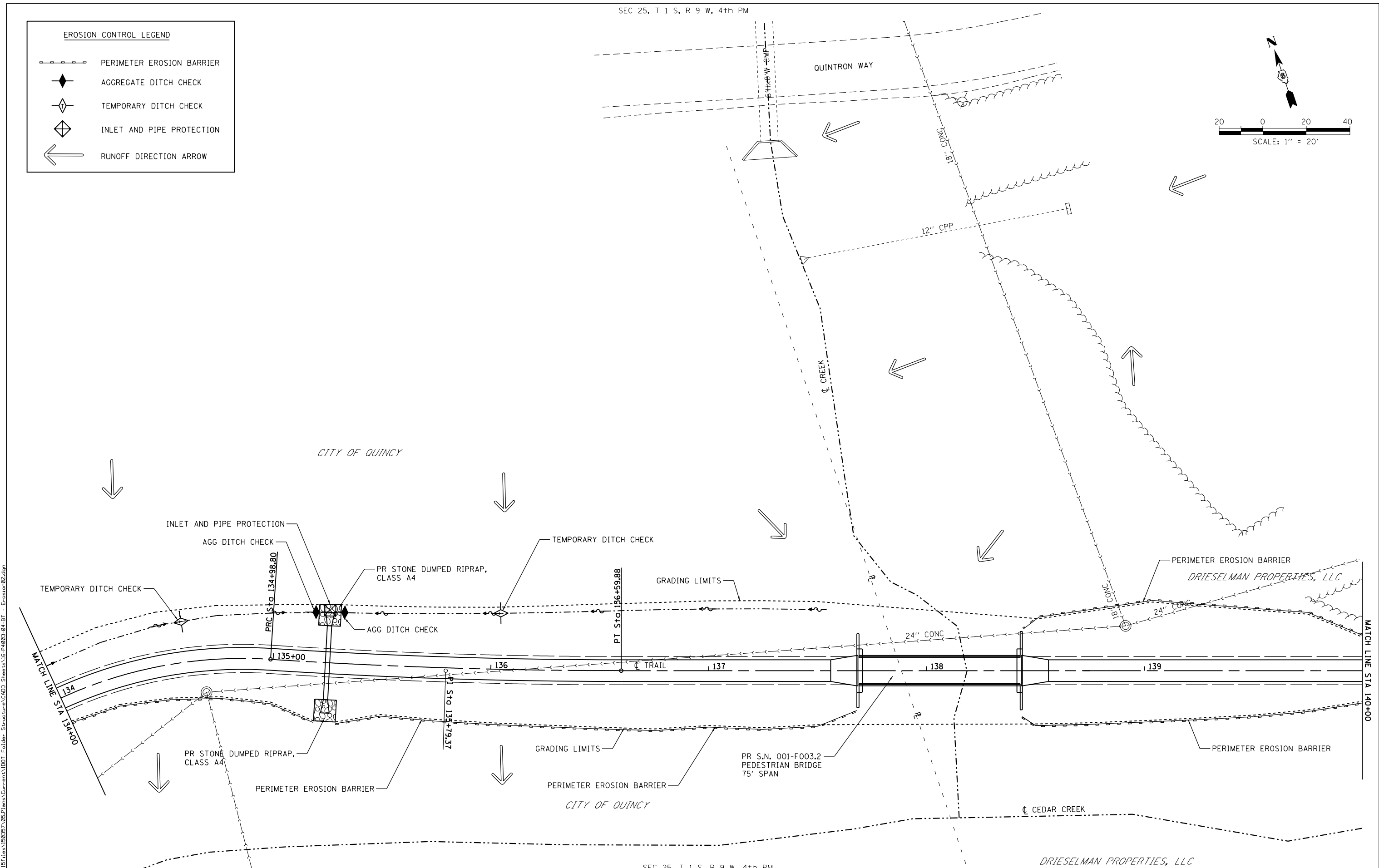
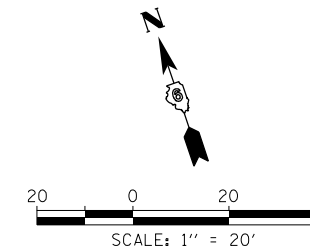
**BILL KLINGNER TRAIL
 STORMWATER POLLUTION PREVENTION PLAN**

SCALE: 1"=20' SHEET 1 OF 6 SHEETS STA. 128+00 TO STA. 134+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	27
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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EROSION CONTROL LEGEND	
	PERIMETER EROSION BARRIER
	AGGREGATE DITCH CHECK
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	RUNOFF DIRECTION ARROW



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

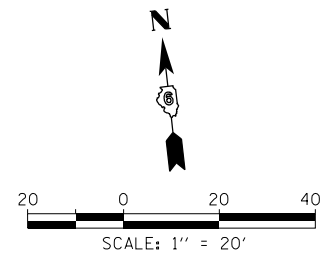
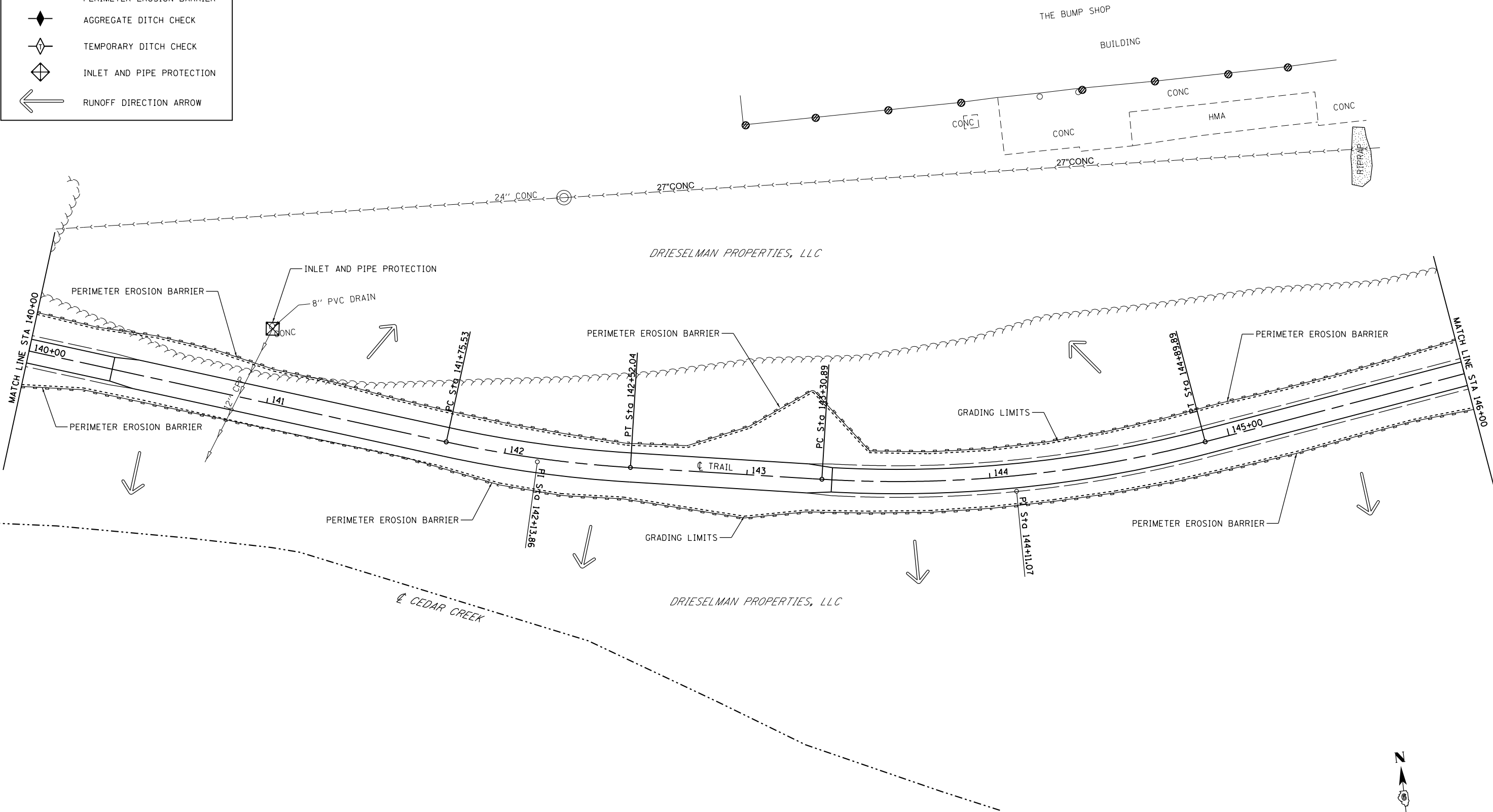
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL
 STORMWATER POLLUTION PREVENTION PLAN**

SCALE: 1"=20' SHEET 2 OF 6 SHEETS STA. 134+00 TO STA. 140+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	28
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL LEGEND	
	PERIMETER EROSION BARRIER
	AGGREGATE DITCH CHECK
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	RUNOFF DIRECTION ARROW



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USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BILL KLINGNER TRAIL
STORMWATER POLLUTION PREVENTION PLAN

SCALE: 1"=20' SHEET 3 OF 6 SHEETS STA. 140+00 TO STA. 146+00

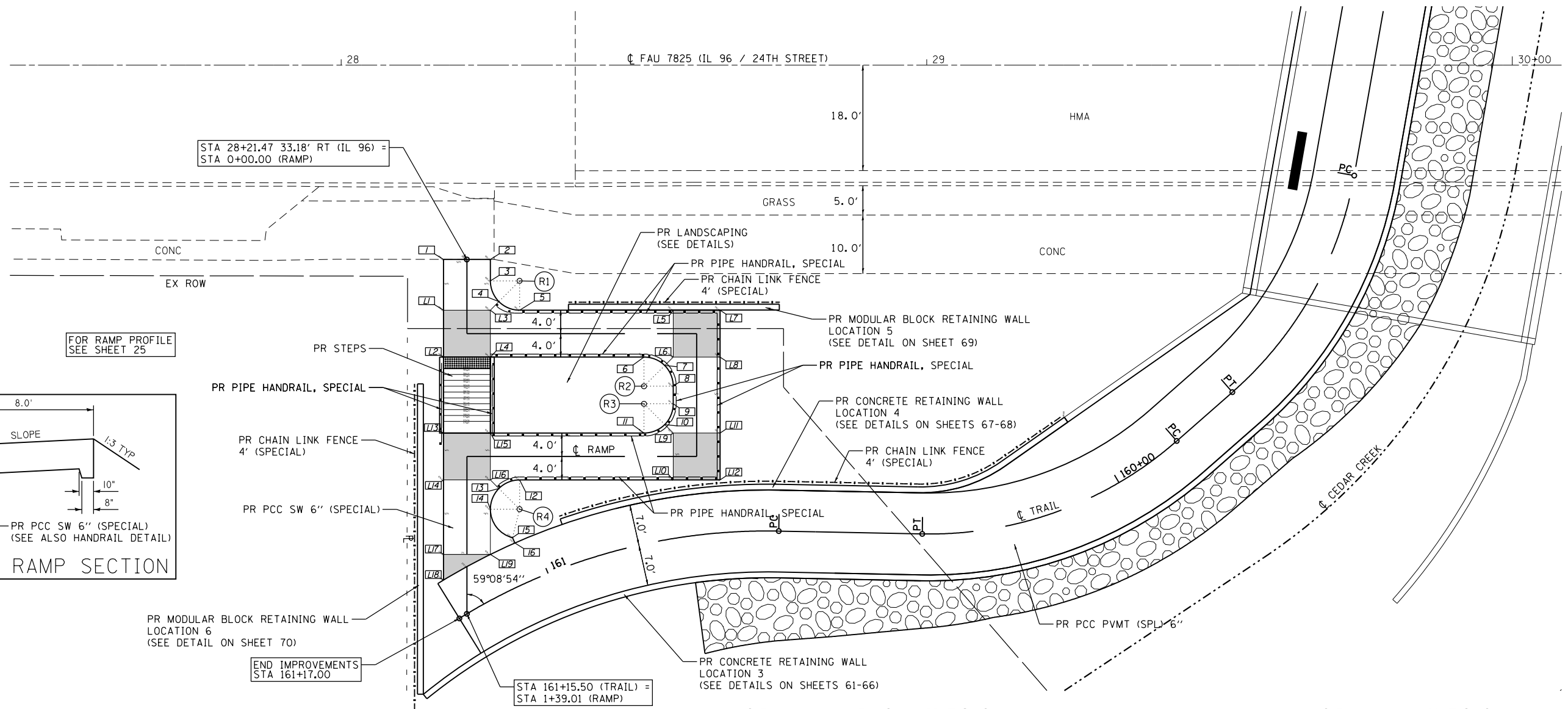
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	29
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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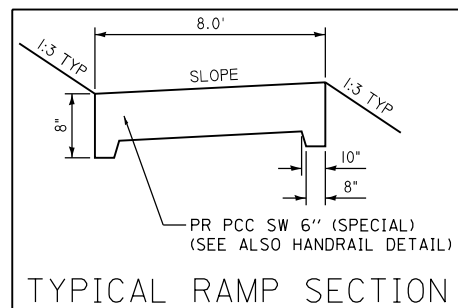
LEGEND

- DETECTABLE WARNINGS
- SIDEWALK LANDING
- SIDEWALK POINT NUMBER
- RADII POINT NUMBER

NOTE: PIPE HANDRAIL NOT GALVANIZED



FOR RAMP PROFILE SEE SHEET 25



RADII POINTS

POINT	RADIUS	Δ	TRAIL		RAMP	
			STATION	OFFSET	STATION	OFFSET
R1	5.0'	90°00'00"	160+90.46	48.84' RT	0+03.65	9.00' LT
R2	5.0'	90°00'00"	160+78.36	26.47' RT	0+60.90	9.00' RT
R3	5.0'	90°00'00"	160+78.76	23.52' RT	0+63.90	9.00' RT
R4	5.0'	166°05'03"	161+00.36	12.00' RT	1+03.15	9.00' LT

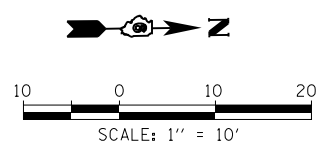
<p>PROP. CURVE C74 PI STA. = 159+54.41 Δ = 38° 44' 20" (RT) D = 89° 31' 29" R = 64.00' T = 22.50' L = 43.27' E = 3.84' P.C. STA = 159+31.91 P.T. STA = 159+75.18</p>	<p>PROP. CURVE C75 PI STA. = 160+12.63 Δ = 42° 23' 37" (RT) D = 89° 31' 28" R = 64.00' T = 24.82' L = 47.35' E = 4.64' P.C. STA = 159+87.81 P.T. STA = 160+35.16</p>	<p>PROP. CURVE C76 PI STA. = 160+97.95 Δ = 41° 53' 29" (LT) D = 57° 17' 45" R = 100.00' T = 38.28' L = 73.11' E = 7.08' P.C. STA = 160+59.68 P.T. STA = 161+32.79</p>
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SIDEWALK LANDING ELEVATIONS

POINT	TRAIL		RAMP		ELEVATION
	STATION	OFFSET	STATION	OFFSET	
L1	160+99.83	48.39' RT	0+08.65	4.00' RT	585.00
L2	161+01.94	41.00' RT	0+12.65	5.65' RT	584.88
L3	160+94.73	45.60' RT	0+16.65	4.00' LT	585.00
L4	160+96.61	38.06' RT	0+16.65	4.00' RT	584.88
L5	160+73.24	38.64' RT	0+47.90	4.00' LT	582.50
L6	160+73.95	30.70' RT	0+55.90	4.00' RT	582.38
L7	160+67.48	37.95' RT	0+51.90	5.65' LT	582.62
L8	160+67.84	29.96' RT	0+55.90	4.00' LT	582.50
L9	160+75.30	17.81' RT	0+68.90	4.00' RT	581.45
L10	160+76.30	9.89' RT	0+76.90	4.00' LT	581.33
L11	160+68.52	16.99' RT	0+68.90	4.00' LT	581.57
L12	160+69.03	9.01' RT	0+72.90	5.65' LT	581.45
L13	161+05.89	29.14' RT	1+12.15	5.65' RT	578.95
L14	161+08.70	21.96' RT	1+16.15	4.00' RT	578.83
L15	161+00.14	25.93' RT	1+08.15	4.00' RT	578.95
L16	161+02.68	18.55' RT	1+08.15	4.00' LT	578.83
L17	161+13.91	10.77' RT	1+28.88	4.00' RT	578.41
L18	161+15.95	7.00' RT	1+33.25	4.00' RT	578.41
L19	161+07.42	7.00' RT	1+28.88	4.00' LT	578.25

SIDEWALK ELEVATIONS

POINT	TRAIL		RAMP		ELEVATION
	STATION	OFFSET	STATION	OFFSET	
1	160+97.76	56.47' RT	0+00.00	4.00' RT	585.38
2	160+92.90	53.82' RT	0+00.00	4.00' LT	585.34
3	160+93.65	50.34' RT	0+03.65	4.00' LT	585.20
4	160+93.46	46.52' RT	0+07.19	5.46' LT	584.90
5	160+91.44	44.06' RT	0+21.65	4.00' LT	584.60
6	160+77.73	31.41' RT	0+42.90	4.00' RT	582.78
7	160+75.21	29.44' RT	0+57.37	5.46' RT	582.40
8	160+74.44	25.74' RT	0+60.90	4.00' RT	582.02
9	160+74.75	22.76' RT	0+63.90	4.00' RT	581.81
10	160+76.35	19.46' RT	0+67.44	5.46' RT	581.43
11	160+79.48	18.59' RT	0+81.90	4.00' RT	581.05
12	160+98.75	16.64' RT	1+03.15	4.00' LT	579.23
13	161+02.03	16.62' RT	1+06.69	5.46' LT	578.92
14	161+04.43	13.98' RT	1+21.15	4.00' LT	578.60
15	161+03.09	8.00' RT	1+26.01	7.80' LT	578.22
16	161+03.09	7.00' RT	1+26.92	8.20' LT	578.16



KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 616 N. 24TH ST. QUINCY, ILLINOIS 62301-2123-2670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GEOMETRIC DETAILS
 RAMP

SCALE: 1"=10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	33
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

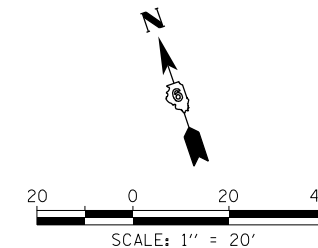
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PAVEMENT MARKING LEGEND

- A PAINT PAVEMENT MARKING - LINE 4" SOLID, YELLOW
- B PAINT PAVEMENT MARKING - LINE 24" SOLID, WHITE

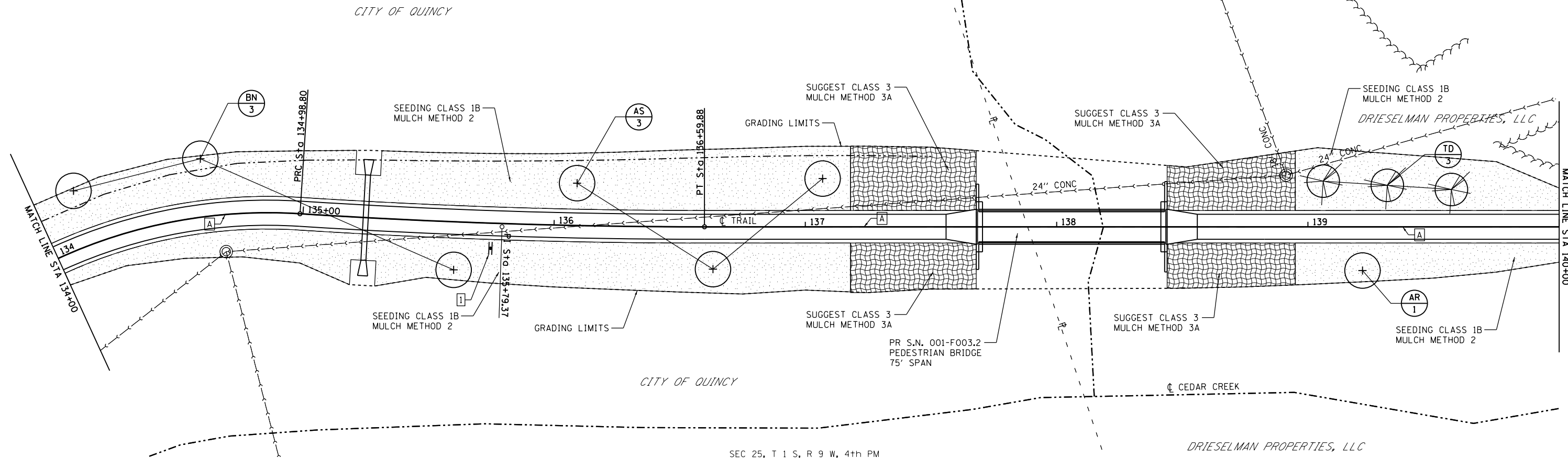
SIGNAGE LEGEND

- 1 STA 135+75 10' RT (TRAIL) STREET SIGN (24"x6") - "NORTH 19th STREET" (SEE MISCELLANEOUS DETAILS)



8' DIA. MULCH RING AROUND ALL TREES TYP.

MARK	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	PLANTING SIZE	QUANTITY	SPACING	REMARKS
AR	ACER RUBRUM "OCTOBER GLORY"	RED MAPLE	40'-50'	30'-40'	2 1/2" CAL.	1	AS SHOWN	RED FALL COLOR
AS	ACER SACCHARUM "FAIRVIEW"	SUGAR MAPLE	50'	40'	2 1/2" CAL.	3	AS SHOWN	FINE TEXTURED FOLIAGE
BN	BETULA NIGRA "HERITAGE"	RIVER BIRCH	40'-70'	40'-60'	2 1/2" CAL.	3	AS SHOWN	ORNAMENTAL BARK
TD	TAXODIUM DISTICHUM	BALD CYPRESS	50'-70'	20'-30'	6'-0" HEIGHT	3	AS SHOWN	PYRAMIDAL CONIFER



USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	35
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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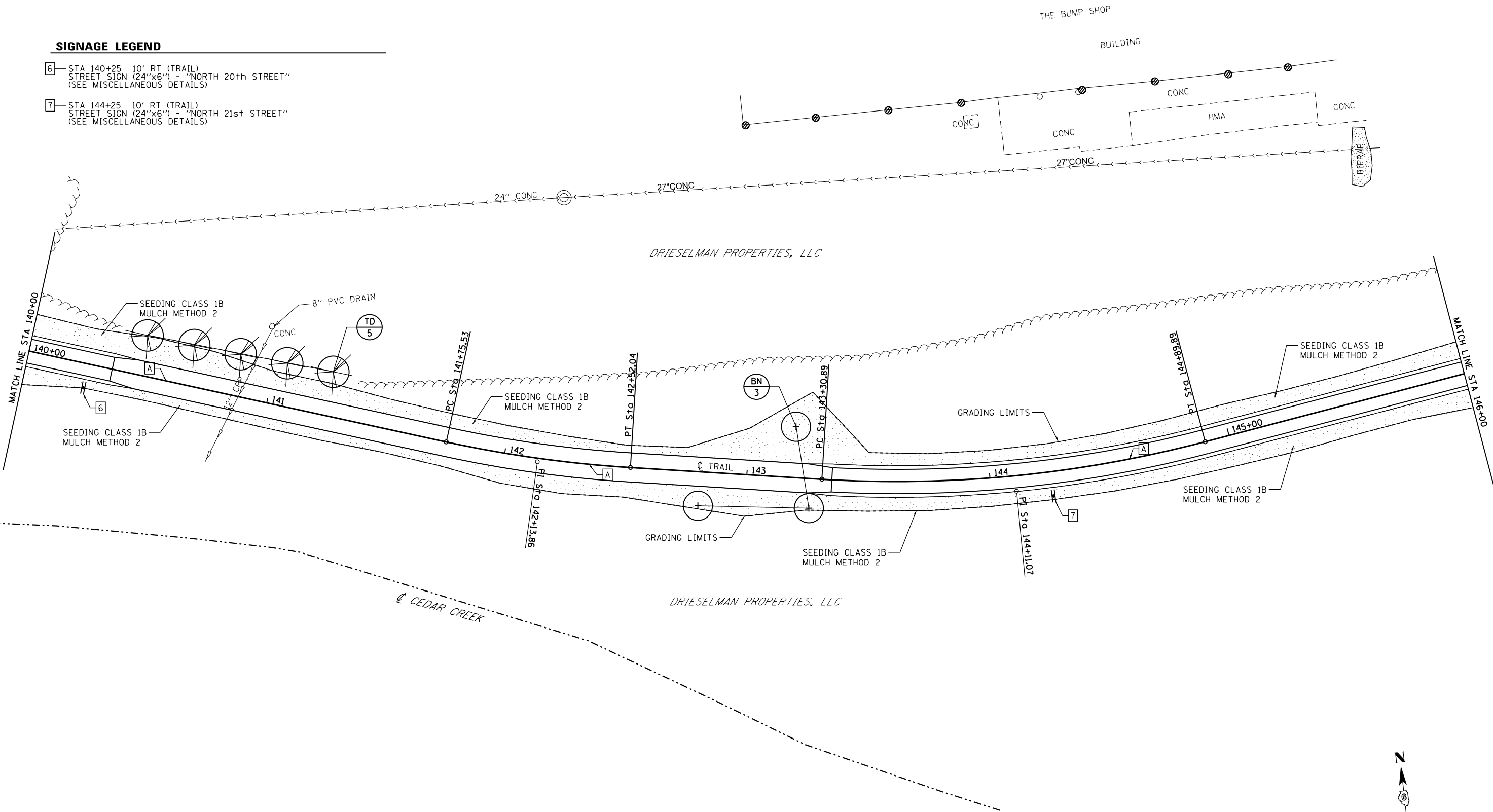
PAVEMENT MARKING LEGEND

A PAINT PAVEMENT MARKING - LINE 4" SOLID, YELLOW

SIGNAGE LEGEND

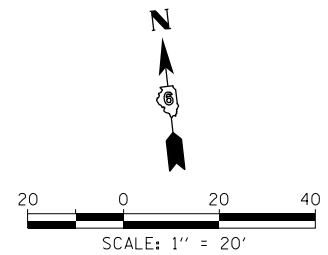
6 STA 140+25 10' RT (TRAIL) STREET SIGN (24"x6") - "NORTH 20th STREET" (SEE MISCELLANEOUS DETAILS)

7 STA 144+25 10' RT (TRAIL) STREET SIGN (24"x6") - "NORTH 21st STREET" (SEE MISCELLANEOUS DETAILS)



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MARK	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	PLANTING SIZE	QUANTITY	SPACING	REMARKS
BN	BETULA NIGRA "HERITAGE"	RIVER BIRCH	40'-70'	40'-60'	2.5" CAL.	3	AS SHOWN	ORNAMENTAL BARK
TD	TAXODIUM DISTICHUM	BALD CYPRESS	50'-70'	20'-30'	6'-0" HEIGHT	5	AS SHOWN	PYRAMIDAL CONIFER



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PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL
 LANDSCAPING, SIGNAGE, AND STRIPING PLAN**

SCALE: 1"=20' SHEET 3 OF 6 SHEETS STA. 140+00 TO STA. 146+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	36
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

8" DIA. MULCH RING AROUND ALL TREES TYP.

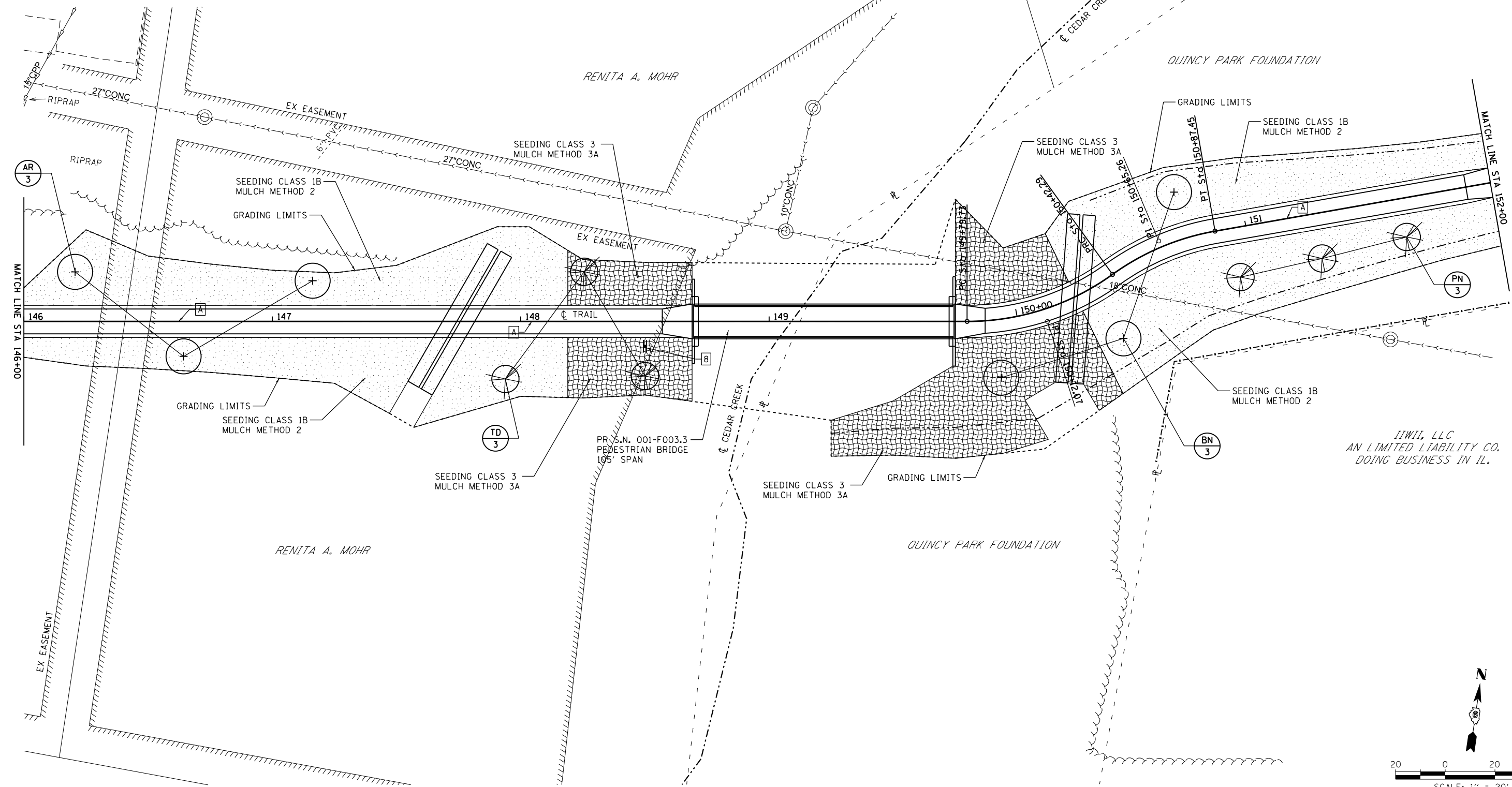
MARK	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	PLANTING SIZE	QUANTITY	SPACING	REMARKS
AR	ACER RUBRUM "OCTOBER GLORY"	RED MAPLE	40'-50'	30'-40'	2 1/2" CAL.	3	AS SHOWN	RED FALL COLOR
BN	BETULIA NIGRA "HERITAGE"	RIVER BIRCH	40'-70'	40'-60'	2 1/2" CAL.	3	AS SHOWN	ORNAMENTAL BARK
PN	PICEA ABIES	NORWAY SPRUCE	40'-60'	25'-30'	6'-0" HEIGHT	3	AS SHOWN	PYRAMIDAL EVERGREEN
TD	TAXODIUM DISTICHUM	BALD CYPRESS	50'-70'	20'-30'	6'-0" HEIGHT	3	AS SHOWN	PYRAMIDAL CONIFER

PAVEMENT MARKING LEGEND

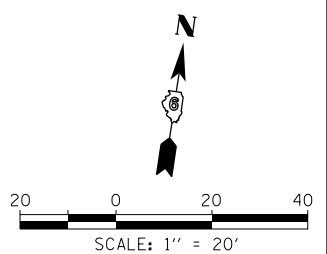
[A]—PAINT PAVEMENT MARKING - LINE 4" SOLID, YELLOW

SIGNAGE LEGEND

[B]—STA 148+50 10' RT (TRAIL) STREET SIGN (24"x6") - "NORTH 22nd STREET" (SEE MISCELLANEOUS DETAILS)



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AN LIMITED LIABILITY CO.
DOING BUSINESS IN IL.



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USER NAME = ebb	DESIGNED -	REVISED -
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	DATE -	REVISED -

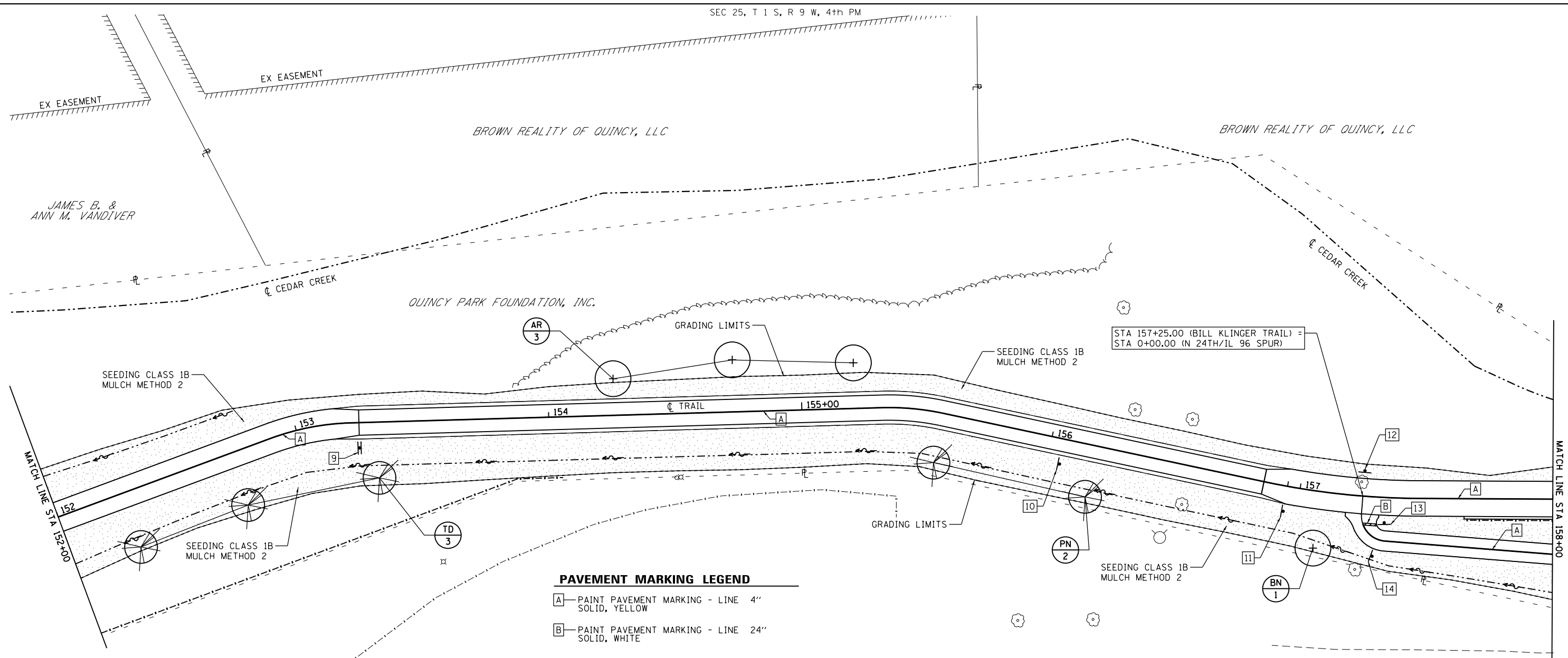
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL
LANDSCAPING, SIGNAGE, AND STRIPING PLAN**

SCALE: 1"=20' SHEET 4 OF 6 SHEETS STA. 146+00 TO STA. 152+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	37
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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PAVEMENT MARKING LEGEND

- [A]—PAINT PAVEMENT MARKING - LINE 4" SOLID, YELLOW
- [B]—PAINT PAVEMENT MARKING - LINE 24" SOLID, WHITE

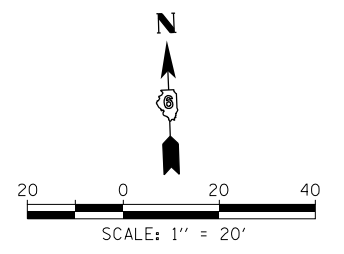
SIGNAGE LEGEND

- [9]—STA 153+25 10' RT (TRAIL) STREET SIGN (24"x6") - "NORTH 23rd STREET" (SEE MISCELLANEOUS DETAILS)
- [10]—STA 156+05 10' RT (TRAIL) R2-5a (18"x24") - "REDUCED SPEED AHEAD" - FACING WEST
- [11]—STA 156+95 10' RT (TRAIL) R2-1 (18"x24") - "15 MPH" - FACING WEST
- [12]—STA 157+25 10' LT (TRAIL) RECREATIONAL SIGN 1 (70"x36") - FACING SOUTH RECREATIONAL SIGN 2 (70"x12") - FACING SOUTH (SEE MISCELLANEOUS DETAILS)
- [13]—STA 0+20 7' LT (WISMANN LANE SPUR) R1-1 (18"x18") - "STOP" - FACING SOUTH
- [14]—STA 0+20 7' RT (WISMANN LANE SPUR) R2-1 (18"x24") - "15 MPH" - FACING WEST

8' DIA. MULCH RING AROUND ALL TREES TYP.

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DOING BUSINESS IN IL

MARK	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	PLANTING SIZE	QUANTITY	SPACING	REMARKS
AR	ACER RUBRUM "OCTOBER GLORY"	RED MAPLE	40'-50'	30'-40'	2 1/2" CAL.	3	AS SHOWN	RED FALL COLOR
BN	BETULIA NIGRA "HERITAGE"	RIVER BIRCH	40'-70'	40'-60'	2 1/2" CAL.	1	AS SHOWN	ORNAMENTAL BARK
PN	PICEA ABIES	NORWAY SPRUCE	40'-60'	25'-30'	6'-0" HEIGHT	2	AS SHOWN	PYRAMIDAL EVERGREEN
TD	TAXODIUM DISTICHUM	BALD CYPRESS	50'-70'	20'-30'	6'-0" HEIGHT	3	AS SHOWN	PYRAMIDAL CONIFER



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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL
LANDSCAPING, SIGNAGE, AND STRIPING PLAN**

SCALE: 1"=20' SHEET 5 OF 6 SHEETS STA. 152+00 TO STA. 158+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	38
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

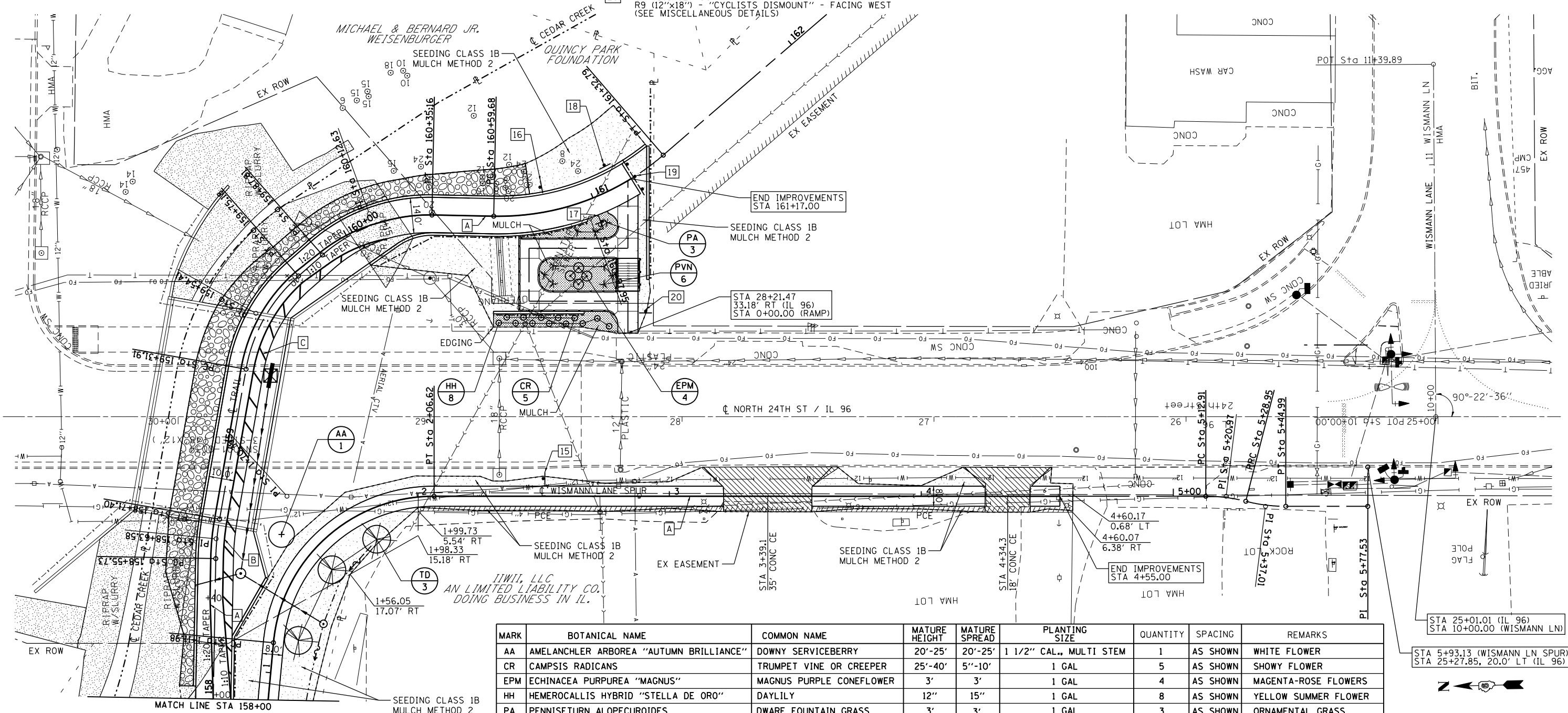
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PAVEMENT MARKING LEGEND

- A—PAINT PAVEMENT MARKING - LINE 4" SOLID, YELLOW
- B—PAINT PAVEMENT MARKING - LINE 4" SOLID, WHITE
- C—PAINT PAVEMENT MARKING - LINE 4" SOLID, WHITE (45° 10' SPACING)

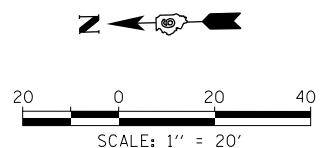
SIGNAGE LEGEND

- 15—STA 2+50.7' LT (WISMANN LANE SPUR) R2-1 (18"x24") - "15 MPH" - FACING SOUTH
- 16—STA 160+80.10' LT (TRAIL) R2-1 (18"x24") - "15 MPH" - FACING SOUTH
- 17—STA 161+00.10' RT R9 (12"x18") - "CYCLISTS DISMOUNT" - FACING NORTH (SEE MISCELLANEOUS DETAILS)
- 18—STA 161+10.10' LT (TRAIL) RECREATIONAL SIGN 1 (70"x36") - FACING WEST RECREATIONAL SIGN 2 (70"x12") - FACING WEST (SEE MISCELLANEOUS DETAILS)
- 19—STA 161+18 (TRAIL) RELOCATE 3 SIGNS OM4-1 (18"x18") - "END OF ROAD MARKER" - FACING NORTH
- 20—STA 161+02.50' RT R9 (12"x18") - "CYCLISTS DISMOUNT" - FACING WEST (SEE MISCELLANEOUS DETAILS)



MARK	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	PLANTING SIZE	QUANTITY	SPACING	REMARKS
AA	AMELANCHLER ARBOREA "AUTUMN BRILLIANCE"	DOWNY SERVICEBERRY	20'-25'	20'-25'	1 1/2" CAL., MULTI STEM	1	AS SHOWN	WHITE FLOWER
CR	CAMPIS RADICANS	TRUMPET VINE OR CREEPER	25'-40'	5'-10'	1 GAL	5	AS SHOWN	SHOWY FLOWER
EPM	ECHINACEA PURPUREA "MAGNUS"	MAGNUS PURPLE CONEFLOWER	3'	3'	1 GAL	4	AS SHOWN	MAGENTA-ROSE FLOWERS
HH	HEMEROCALLIS HYBRID "STELLA DE ORO"	DAYLILY	12"	15"	1 GAL	8	AS SHOWN	YELLOW SUMMER FLOWER
PA	PENNISETURN ALOPECUROIDES	DWARF FOUNTAIN GRASS	3'	3'	1 GAL	3	AS SHOWN	ORNAMENTAL GRASS
PVN	PANICUM VIRGATUM "NORTHWIND"	NORTHWIND SWITCHGRASS	4'-5'	2'-3'	1 GAL	6	AS SHOWN	ORNAMENTAL GRASS
TD	TAXODIUM DISTICHUM	BALD CYPRESS	50'-70'	20'-30'	6'-0" HEIGHT	3	AS SHOWN	PYRAMIDAL CONIFER

8" DIA. MULCH RING AROUND ALL TREES TYP.



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 Engineers • Architects • Surveyors
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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL
 LANDSCAPING, SIGNAGE, AND STRIPING PLAN**

SCALE: 1"=20' SHEET 6 OF 6 SHEETS STA. 158+00 TO STA. 161+17

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	39
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled "a" on West side of traffic signal pole in island at North 24th Street and Wisman Lane - Elev. 591.45

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Details
- 3 West Approach Pavement Details
- 4 East Approach Pavement Details
- 5 West Abutment
- 6 East Abutment
- 7 Soil Boring Logs

DESIGN SCOUR ELEVATION TABLE

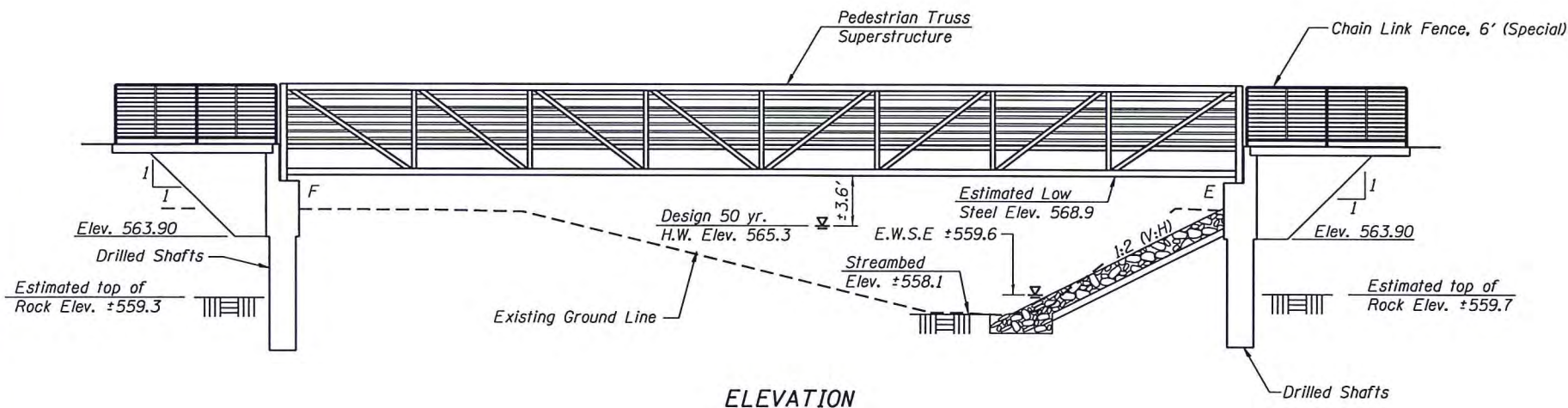
Event / Limit State	Design Scour Elevations (ft.)		Item 113
	W. Abut.	E. Abut.	
0100	559.3	559.7	8
0200	559.3	559.7	
Design	563.9	563.9	
Check	563.9	563.9	

WATERWAY INFORMATION

Drainage Area = 0.56 mi.² Proposed Overtopping Elev. 563.85 @ Sta. 131+25.0

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	676	-	201	564.5	-	0.3	-	-	564.8
Base	50	1,050	-	257	565.3	-	0.4	-	-	565.7
Scour Design	100	1,220	-	281	565.6	-	0.5	-	-	566.0
Overtopping	>500	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1,680	-	349	566.3	-	1.0	-	-	567.2

10 year velocity through proposed bridge = 3.4 ft/s
 Natural H.W.E. controlled by backwater effects of Cedar Creek = 566.6



ELEVATION

Note:
 For Section A-A, see Sheet 2 of 7.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications
 7th Edition with 2015 and 2016 Interims
 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges

LOADING H-10/PEDESTRIAN

No allowance for future wearing surface

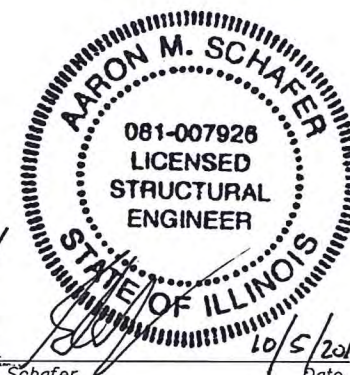
DESIGN STRESSES

FIELD UNITS

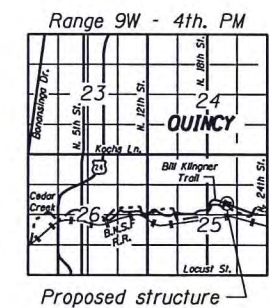
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{01}) = 0.083g
 Design Spectral Acceleration at 0.2 sec. (S_{02}) = 0.134g
 Soil Site Class = C

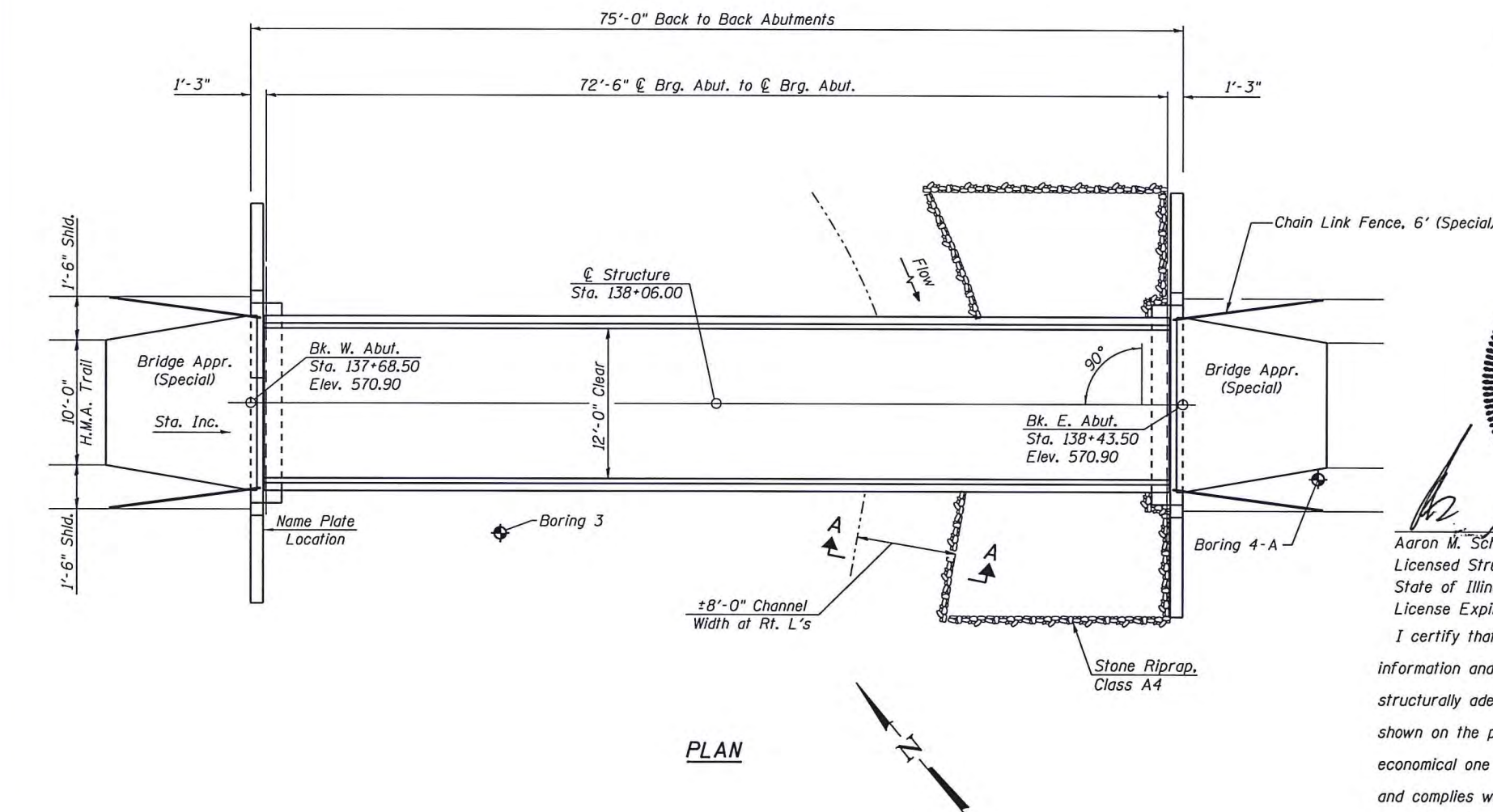


Aaron M. Schafer
 Licensed Structural Engineer
 State of Illinois No. 081-007926
 License Expires 11/30/18
 I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications for Highway Bridges".



LOCATION SKETCH

GENERAL PLAN
 BILL KLINGNER TRAIL OVER
 CEDAR CREEK TRIBUTARY
 SECTION 16-P4003-04-BT
 ADAMS COUNTY
 STATION 138+06.00
 STRUCTURE NO. 001-F003.2



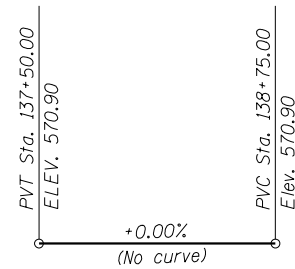
PLAN

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

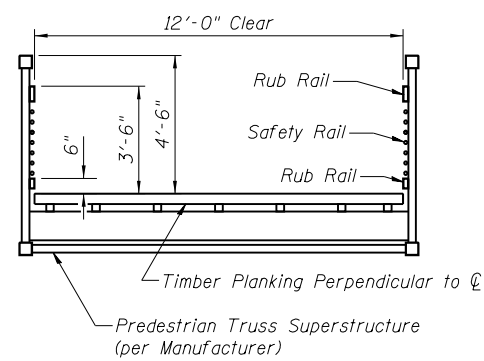
GENERAL PLAN
 STRUCTURE NO. 001-F003.2
 SHEET NO. 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	40
CONTRACT NO. 93711				

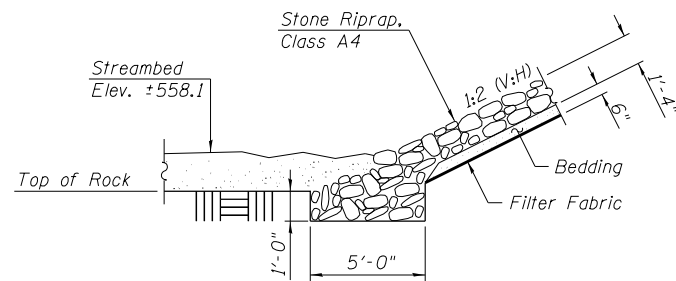
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	CHECKED - RJP	REVISED -



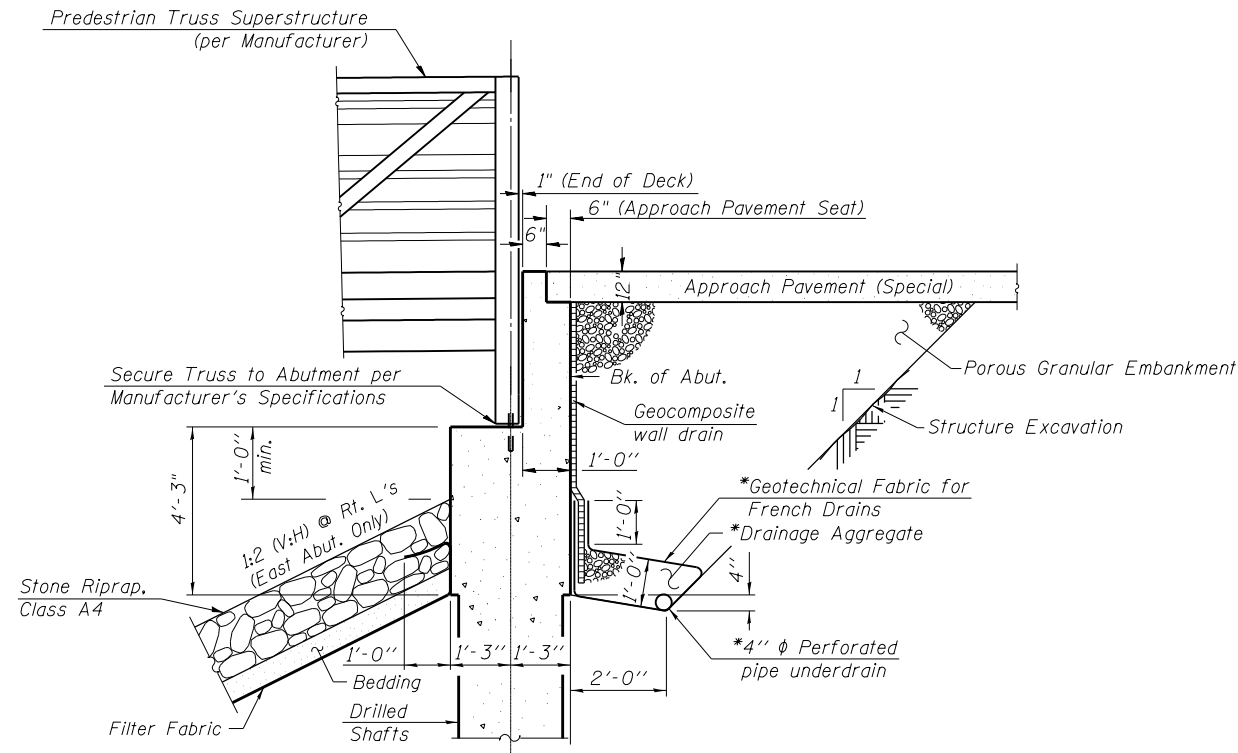
PROFILE GRADE
(along Bill Klingner Trail)



CROSS SECTION
(Looking East)



SECTION A-A



SECTION THRU ABUTMENT

*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).

GENERAL NOTES

No field welding is permitted except as specified in the contract documents.
Reinforcement bars designated (E) shall be epoxy coated.
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
If a portion of the drilled shaft is under water, reinforcement may be placed under water in forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

The type of timber to be used for the bridge deck shall be Treated, Douglas Fir.

TOTAL BILL OF MATERIAL

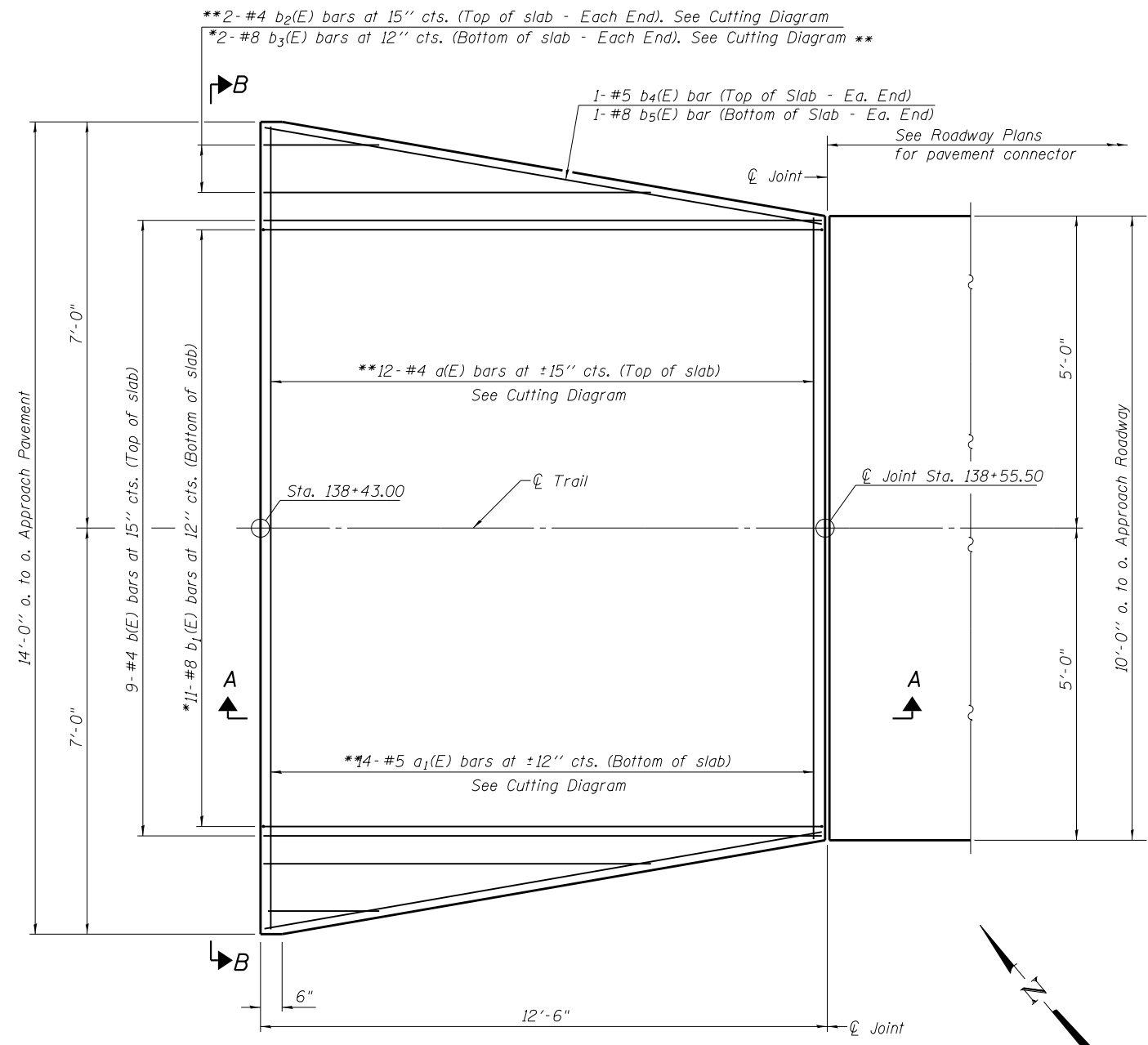
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		56	56
Stone Riprap, Class A4	Sq. Yd.		72	72
Filter Fabric	Sq. Yd.		72	72
Structure Excavation	Cu. Yd.		40	40
Concrete Structures	Cu. Yd.		23.2	23.2
Protective Coat	Sq. Yd.	34		34
Reinforcement Bars, Epoxy Coated	Pound		5320	5320
Name Plates	Each	1		1
Drilled Shaft in Soil	Cu. Yd.		3.1	3.1
Drilled Shaft in Rock	Cu. Yd.		1.6	1.6
Concrete Sealer	Sq. Ft.		272	272
Geocomposite Wall Drain	Sq. Yd.		40	40
Pipe Underdrains for Structures 4"	Foot		97	97
Pedestrian Truss Superstructure	Sq. Ft.	874		874
Chain Link Fence, 6' (Special)	Foot	48		48
Bridge Approach Pavement (Special)	Sq. Yd.	34		34

STATION 138+06.00
BUILT 201 BY
QUINCY PARK DISTRICT
SEC. 16-P4003-04-BT
LOADING H-10
STRUCTURE NO. 001-F003.2

NAME PLATE
See Std. 515001

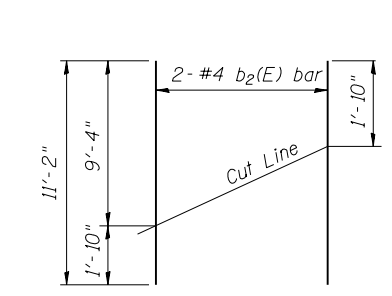
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	41
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

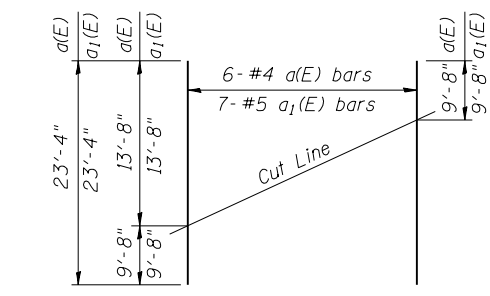


PLAN

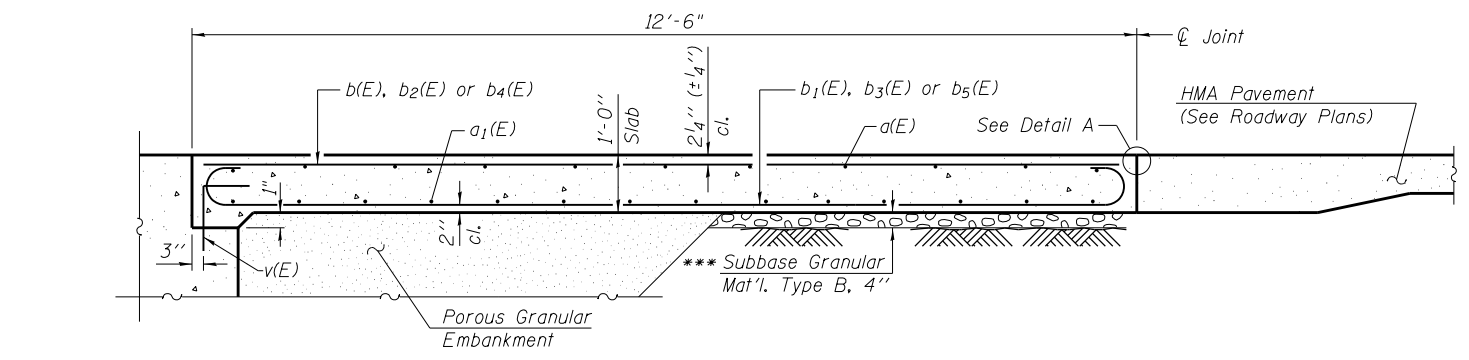
*Tilt #8 $b_1(E)$ & $b_3(E)$ bars as required to maintain clearance.
 **After cutting



FIELD CUTTING DIAGRAM
 Order $b_2(E)$ full length. Cut as shown and use remainder of bars at opposite end.

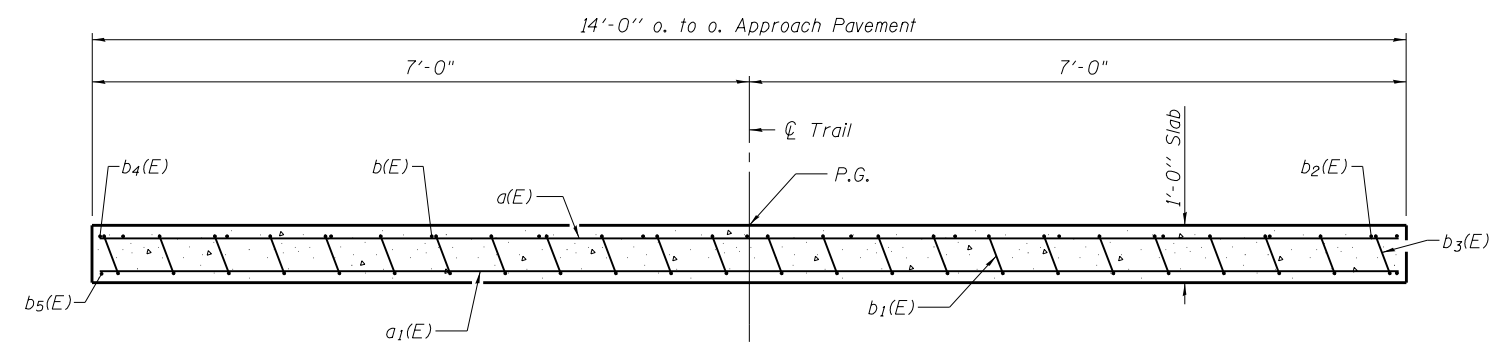


FIELD CUTTING DIAGRAM
 Order $a(E)$ & $a_1(E)$ full length. Cut as shown and use remainder of bars at opposite end.



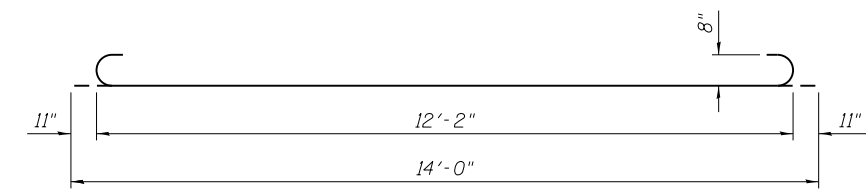
SECTION A-A

***Cost included with Bridge Approach Pavement (Special)

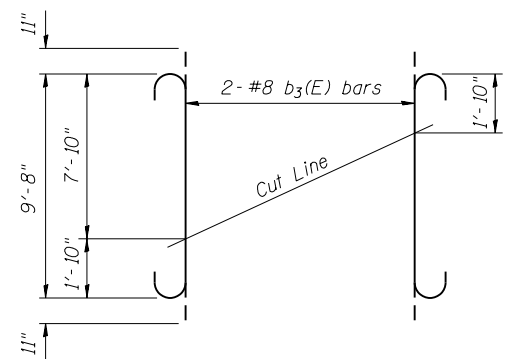


SECTION B-B

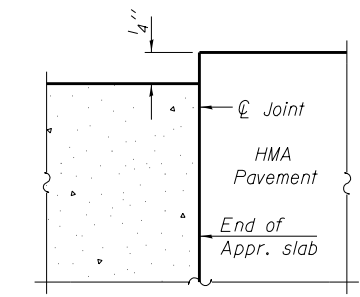
(See Plan for dimensions not shown)



BAR $b_1(E)$



FIELD CUTTING DIAGRAM
 Order $b_3(E)$ full length. Cut as shown and use remainder of bars at opposite end.



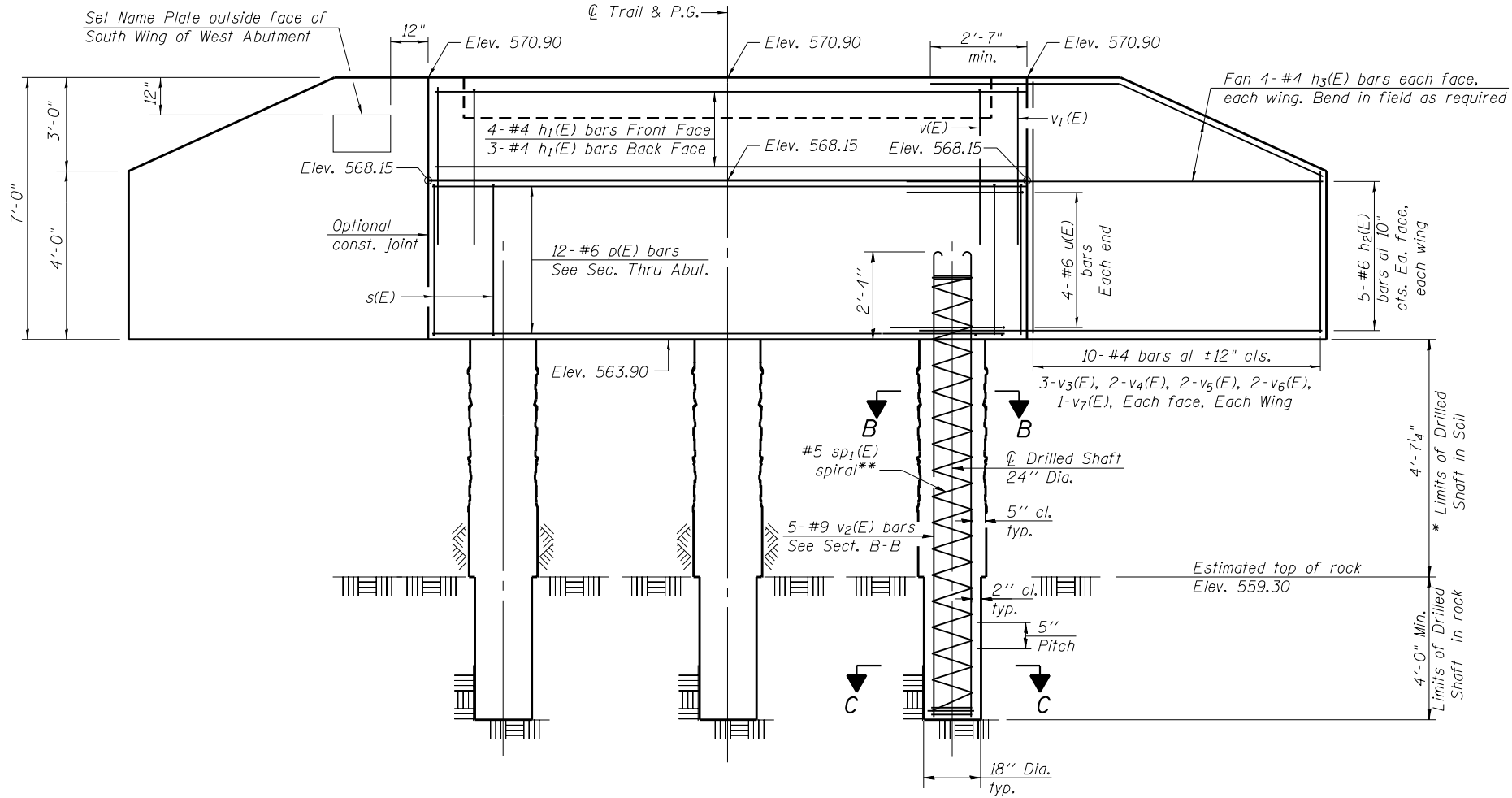
FLEXIBLE PAVEMENT DETAIL A

Notes:
 $a(E)$ and $a_1(E)$ bar spacings measured along \varnothing Trail.
 Approach slab concrete and reinforcement shall be paid for as Bridge Approach Pavement (Special).
 For $v(E)$ bar details, see sheet 6 of 7.
 For Porous Granular Embankment and drainage treatment details, see sheet 2 of 7.

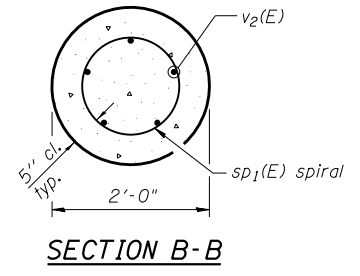
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a(E)$	6	#4	23'-4"	—
$a_1(E)$	7	#5	23'-4"	—
$b(E)$	9	#4	12'-2"	—
$b_1(E)$	11	#8	14'-0"	U
$b_2(E)$	2	#4	11'-2"	—
$b_3(E)$	2	#8	11'-6"	U
$b_4(E)$	2	#5	12'-4"	—
$b_5(E)$	2	#8	12'-4"	—
Protective Coat			Sq. Yd.	17
Bridge Approach Pavement (Special)			Sq. Yd.	17

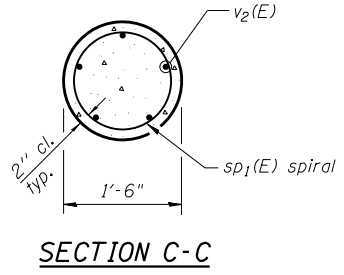
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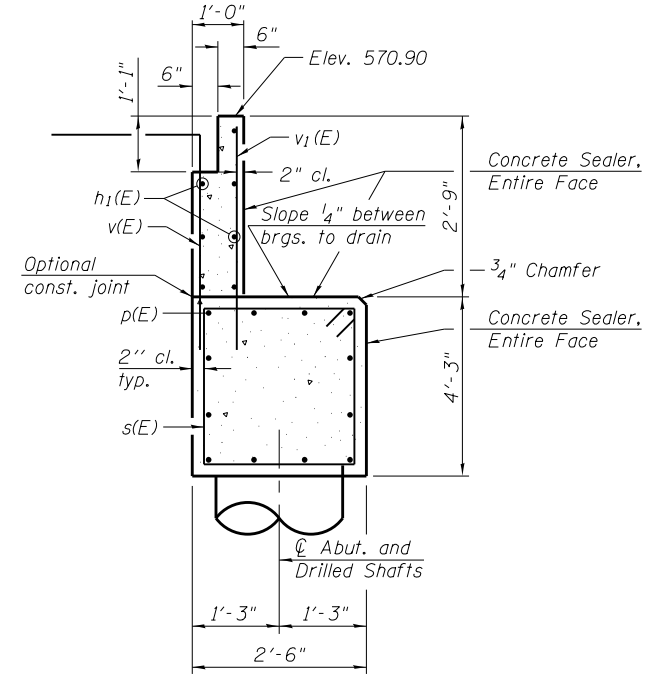
ELEVATION
(Looking West)



SECTION B-B



SECTION C-C

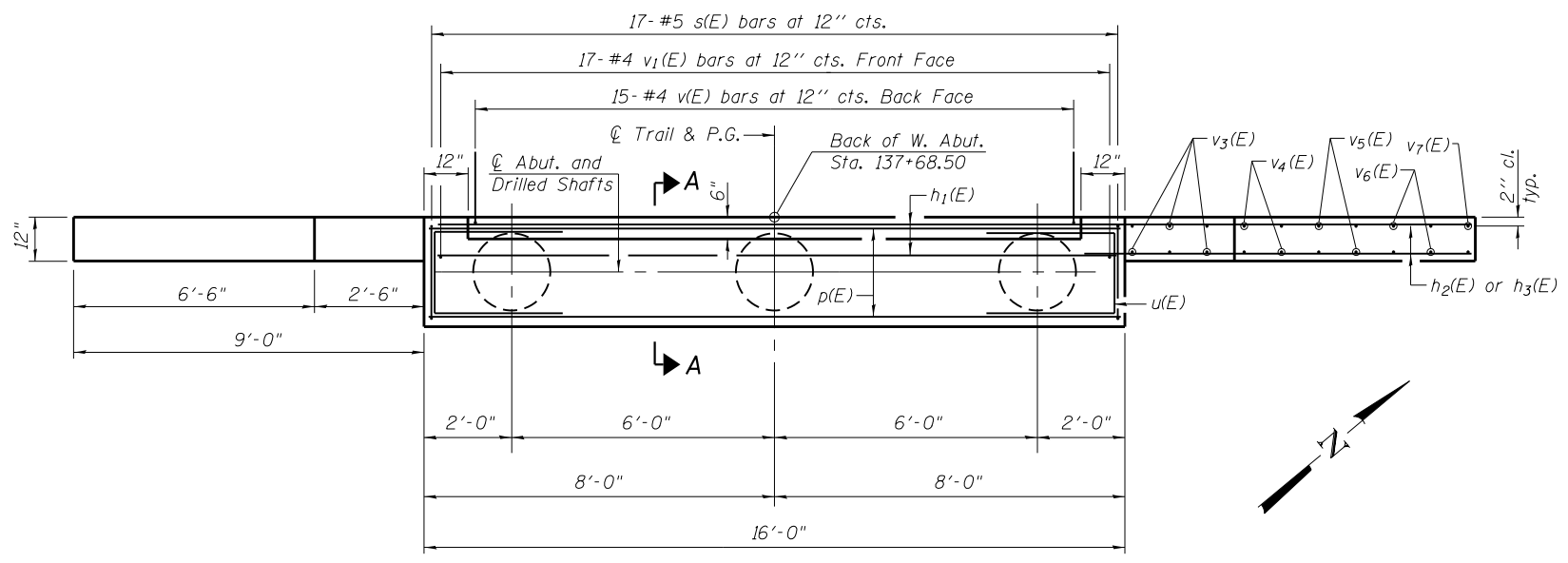


SECTION A-A

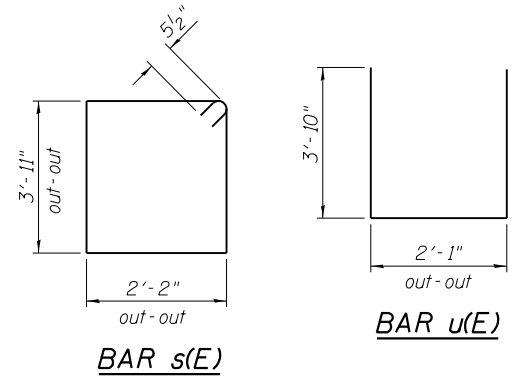
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	7	#4	15'-8"	—
h2(E)	20	#6	13'-7"	—
h3(E)	16	#4	12'-1"	—
p(E)	12	#6	15'-8"	—
s(E)	17	#5	13'-1"	□
*** sp1(E)	3	#5	9'-10"	⋈
u(E)	8	#6	9'-9"	□
v(E)	15	#4	7'-0"	└
v1(E)	17	#4	4'-0"	—
v2(E)	15	#9	12'-0"	—
v3(E)	12	#4	6'-8"	—
v4(E)	8	#4	6'-1"	—
v5(E)	8	#4	5'-3"	—
v6(E)	8	#4	4'-3"	—
v7(E)	4	#4	3'-8"	—
Structure Excavation		Cu. Yd.	19	
Concrete Structures		Cu. Yd.	11.6	
Reinforcement Bars, Epoxy Coated		Pound	2680	
Drilled Shaft in Soil		Cu. Yd.	1.6	
Drilled Shaft in Rock		Cu. Yd.	0.8	
Concrete Sealer		Sq. Ft.	136	
Name Plates		Each	1	

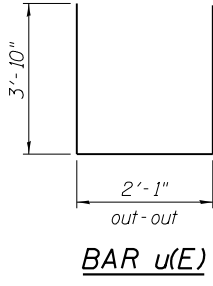
Concrete Sealer shall be applied to the front face of the backwall, top of cap, and front face of cap. Space cap reinforcement to miss anchor bolts.
 Minimum lap for spirals = 3'-4"
 * The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
 ** Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 1'-3" into abutment cap. Provide min. 4-#4 spacers or equivalent.
 *** Length is height of spiral.



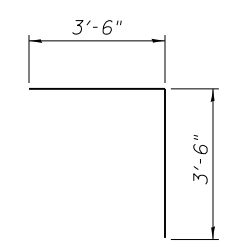
PLAN



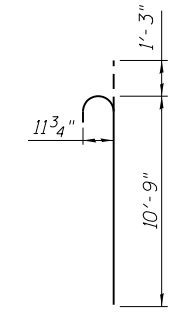
BAR s(E)



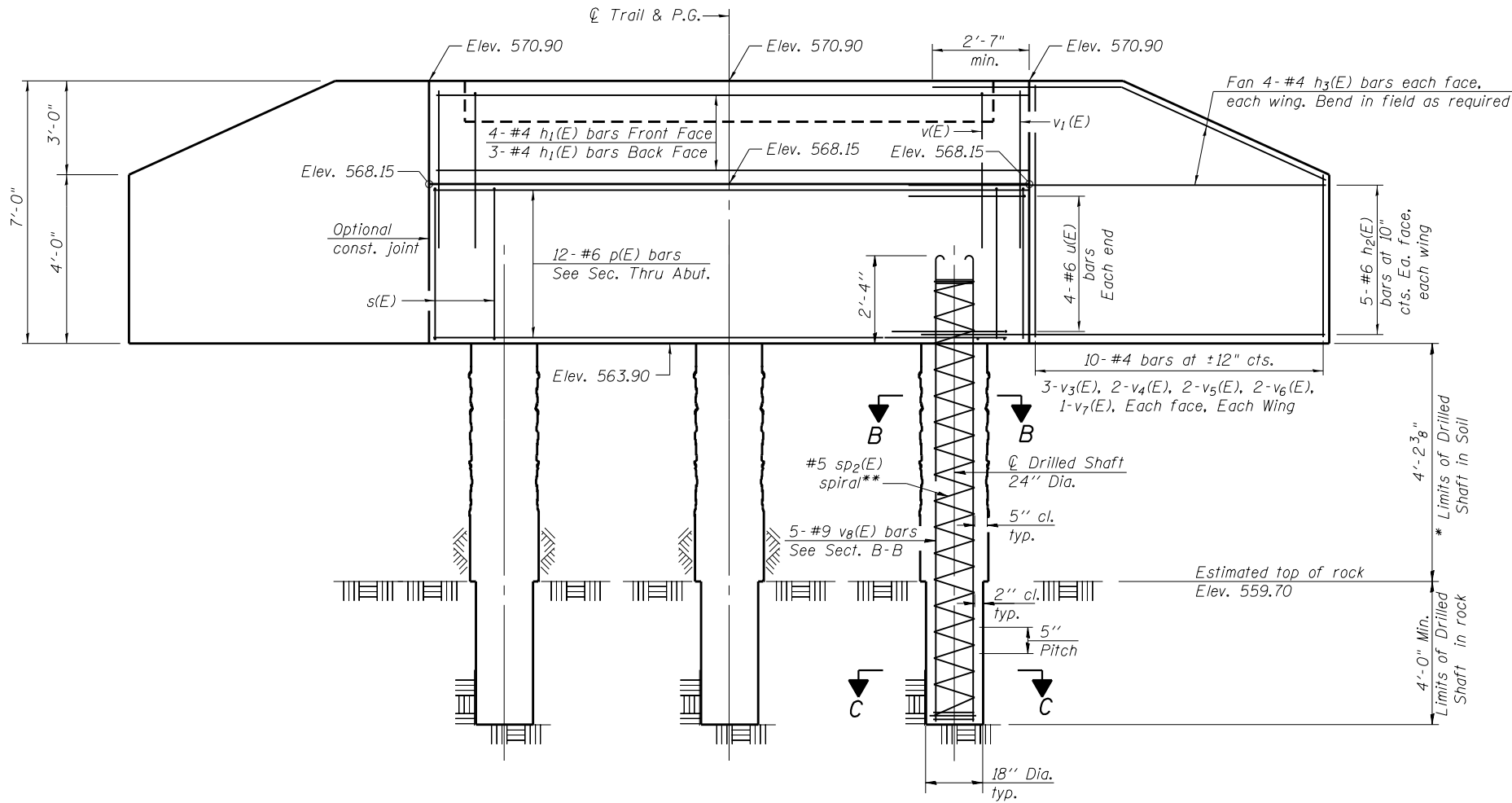
BAR u(E)



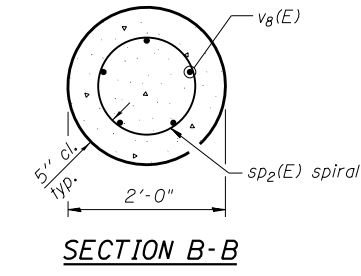
BAR v(E)



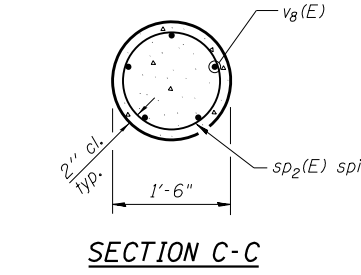
BAR v2(E)



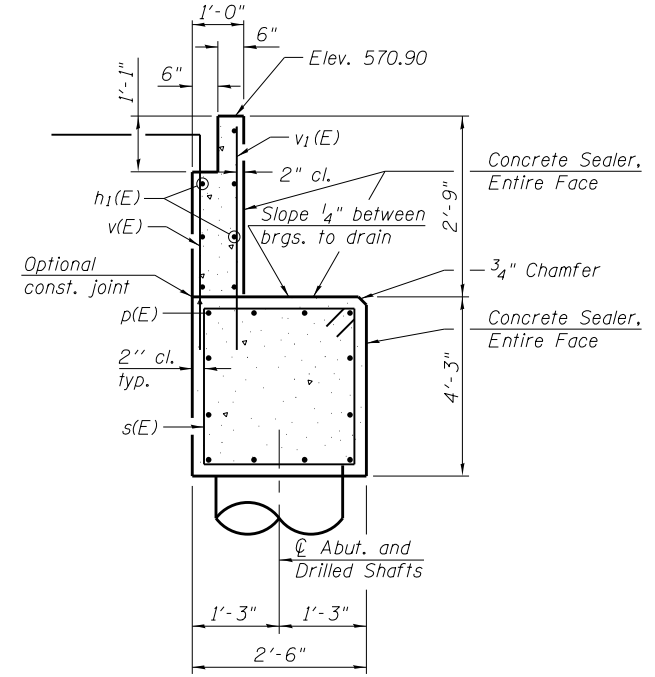
ELEVATION
(Looking East)



SECTION B-B



SECTION C-C

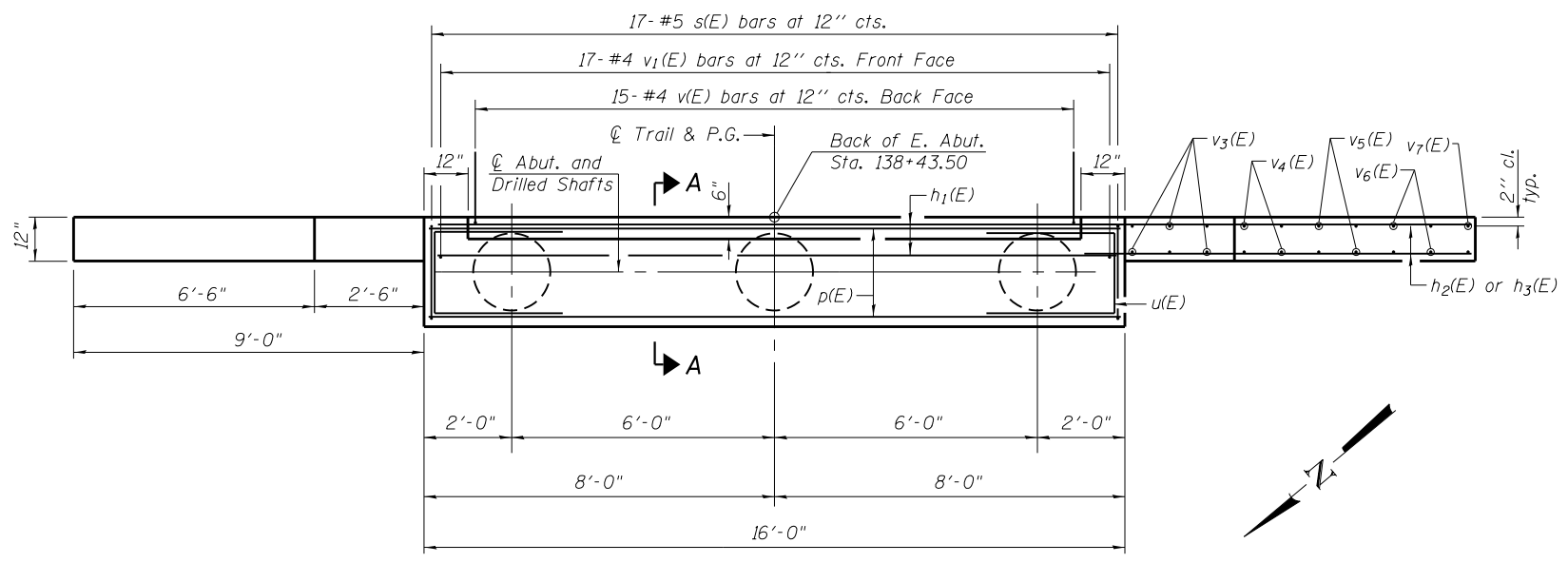


SECTION A-A

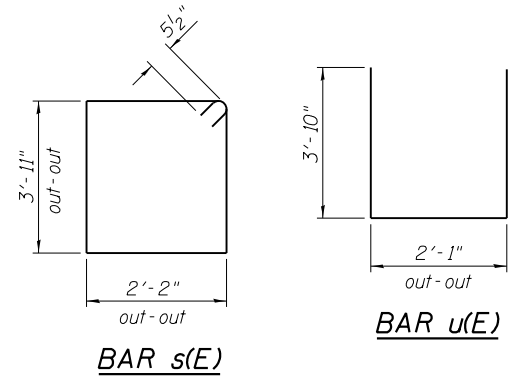
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	7	#4	15'-8"	—
h2(E)	20	#6	13'-7"	—
h3(E)	16	#4	12'-1"	—
p(E)	12	#6	15'-8"	—
s(E)	17	#5	13'-1"	□
*** sp2(E)	3	#5	9'-6"	⋈
u(E)	8	#6	9'-9"	□
v(E)	15	#4	7'-0"	└
v1(E)	17	#4	4'-0"	—
v3(E)	12	#4	6'-8"	—
v4(E)	8	#4	6'-1"	—
v5(E)	8	#4	5'-3"	—
v6(E)	8	#4	4'-3"	—
v7(E)	4	#4	3'-8"	—
v8(E)	15	#9	11'-7"	—
Structure Excavation		Cu. Yd.	21	
Concrete Structures		Cu. Yd.	11.6	
Reinforcement Bars, Epoxy Coated		Pound	2640	
Drilled Shaft in Soil		Cu. Yd.	1.5	
Drilled Shaft in Rock		Cu. Yd.	0.8	
Concrete Sealer		Sq. Ft.	136	

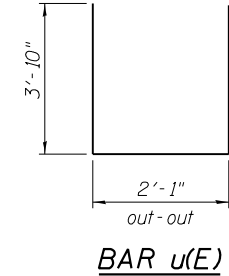
Concrete Sealer shall be applied to the front face of the backwall, top of cap, and front face of cap. Space cap reinforcement to miss anchor bolts.
 Minimum lap for spirals = 3'-4"
 * The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
 ** Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 1'-3" into abutment cap. Provide min. 4-#4 spacers or equivalent.
 *** Length is height of spiral.



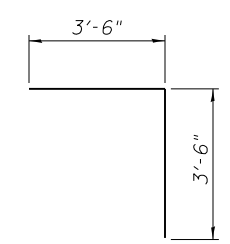
PLAN



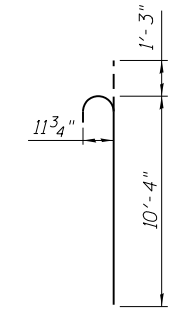
BAR s(E)



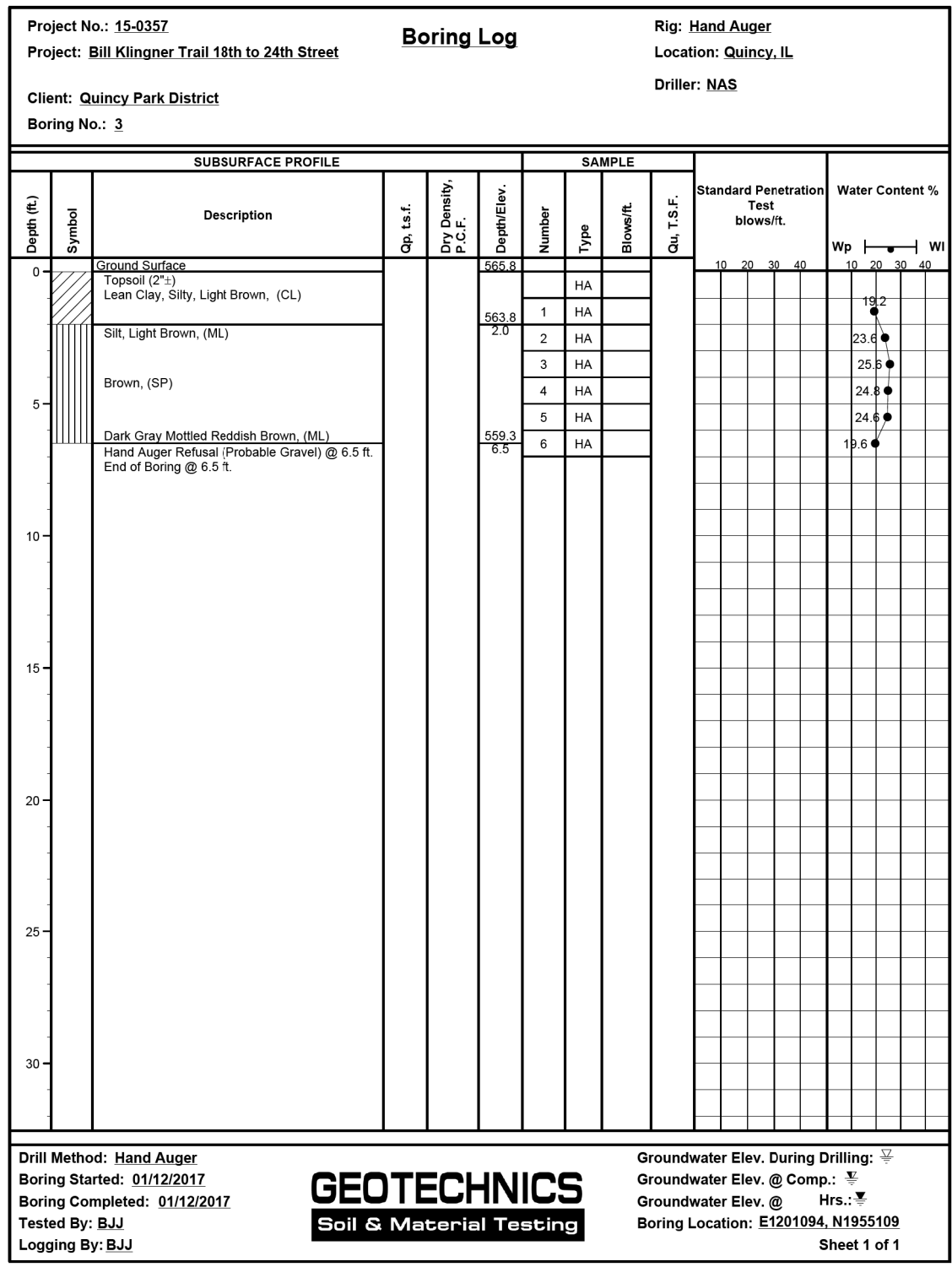
BAR u(E)



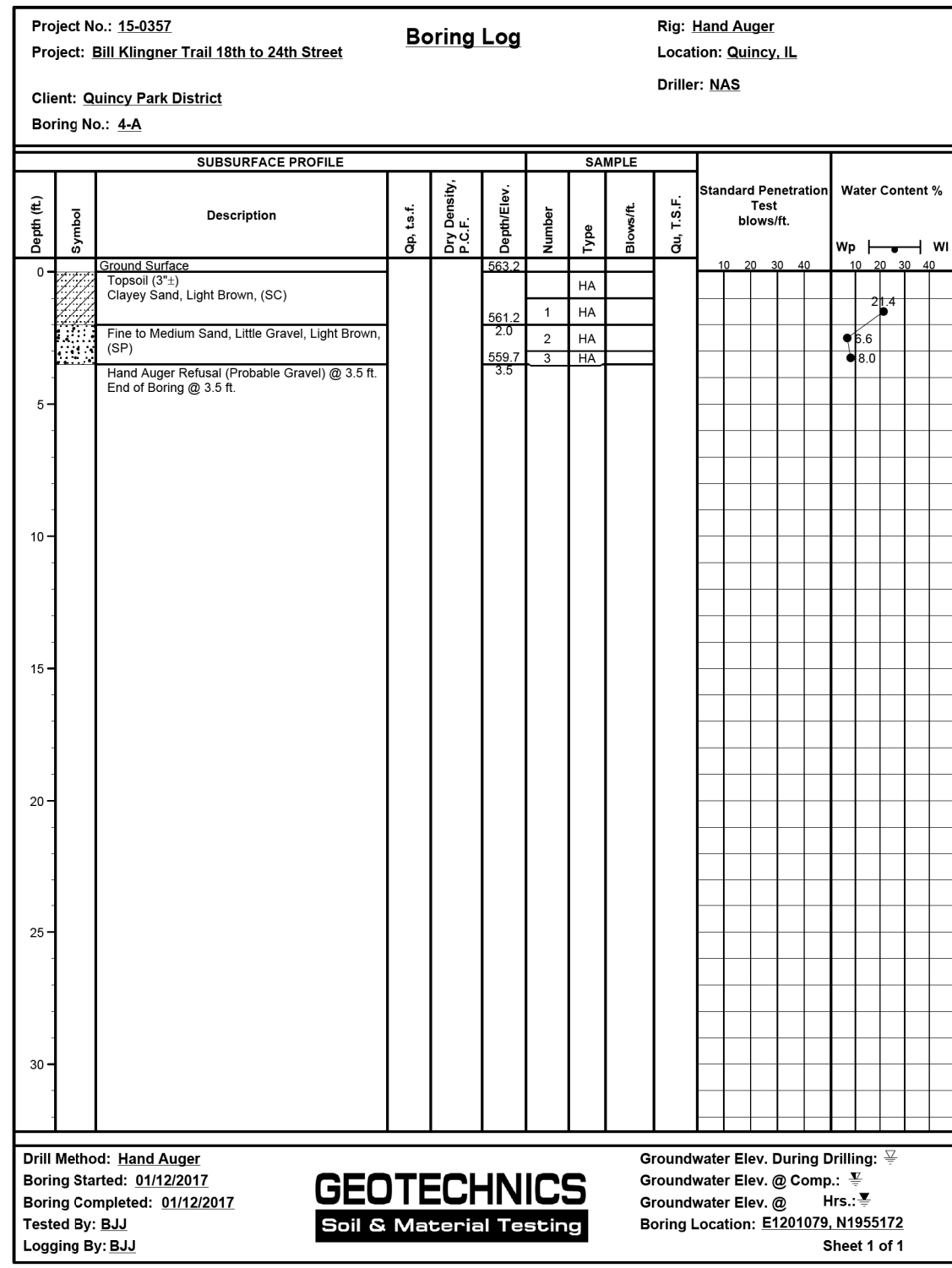
BAR v(E)



BAR v8(E)



BORING 3



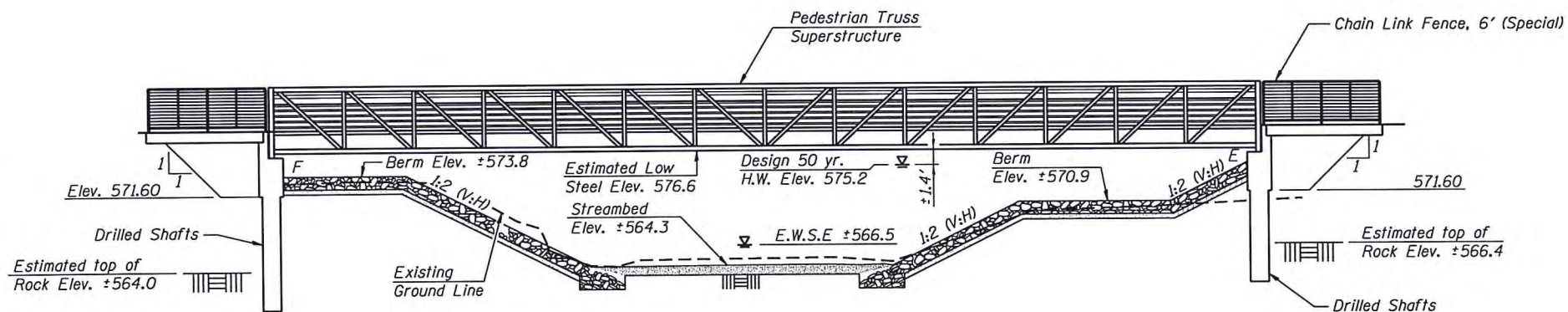
BORING 4-A

Benchmark: Chiseled "□" on West side of traffic signal pole in island at North 24th Street and Wisman Lane - Elev. 591.45

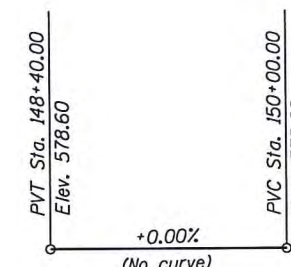
INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Details
- 3 West Approach Pavement Details
- 4 East Approach Pavement Details
- 5 West Abutment
- 6 East Abutment
- 7 Soil Boring Logs

Note:
For Section A-A, see Sheet 2 of 7.



ELEVATION



PROFILE GRADE
(along Bill Klingner Trail)

HORIZONTAL CURVE DATA

P.I. Sta. = 150+12.07
 $\Delta = 35^\circ 50' 46''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 32.34'$
 $L = 62.56'$
 $E = 5.10'$
 P.C. Sta. = 149+79.73
 P.T. Sta. = 150+42.29
 No S.E.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications
 7th Edition with 2015 and 2016 Interims
 AASHTO LRFD Guide Specifications for
 the Design of Pedestrian Bridges

LOADING H-10/PEDESTRIAN

No allowance for future wearing surface

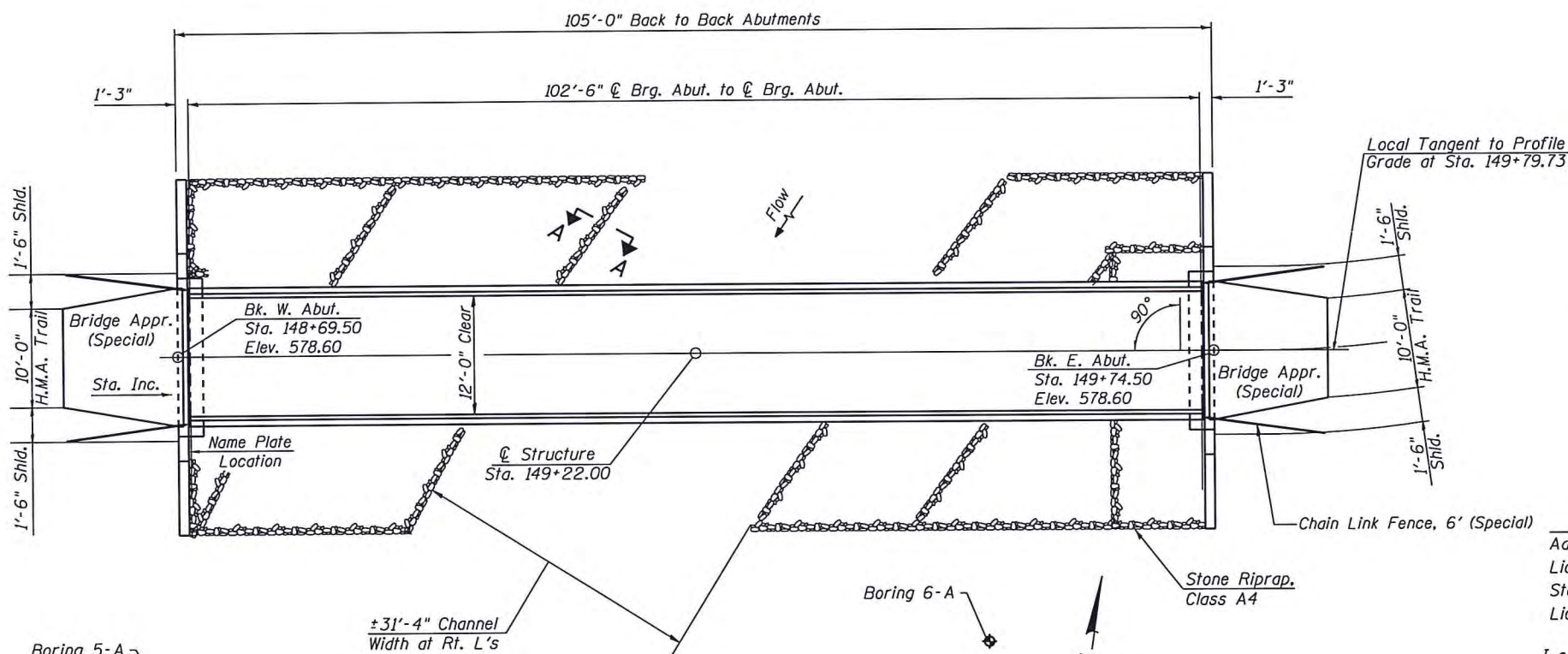
DESIGN STRESSES

FIELD UNITS

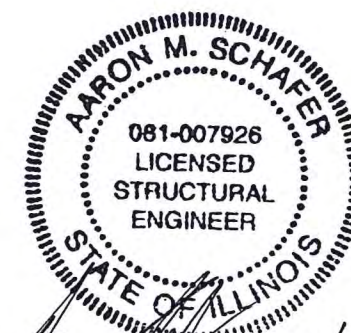
$f'_c = 3,500$ psi
 $f'_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{d1}) = 0.083g
 Design Spectral Acceleration at 0.2 sec. ($S_{d0.2}$) = 0.134g
 Soil Site Class = C

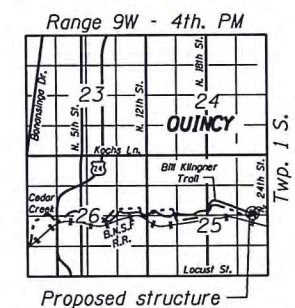


PLAN



Aaron M. Schafer
 Licensed Structural Engineer
 State of Illinois No. 081-007926
 License Expires 11/30/18

I certify that to the best of my knowledge, information and belief, this bridge 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 LRFD Specifications for Highway Bridges".



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 5.43 mi. ² Prop. Overtopping Elev. 565.90 @ Sta. 141+50.00										
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	4,040	-	600	574.7	-	0.5	-	575.2	
Base	100	4,730	-	650	575.0	-	0.5	-	575.5	
Scour Design	200	5,500	-	680	575.4	-	0.4	-	575.8	
Overtopping	>500	-	-	-	-	-	-	-	-	-
Max. Calc.	500	6,650	-	715	575.8	-	0.4	-	576.2	

10 year velocity through proposed bridge = 2.8 ft/s

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)			Item 113
	W. Abut.	E. Abut.		
State				8
Q100	564.0	566.4		
Q200	564.0	566.4		
Design	571.6	571.6		
Check	571.6	571.6		



USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24,9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 10/5/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
 STRUCTURE NO. 001-F003.3

SHEET NO. 1 OF 7 SHEETS

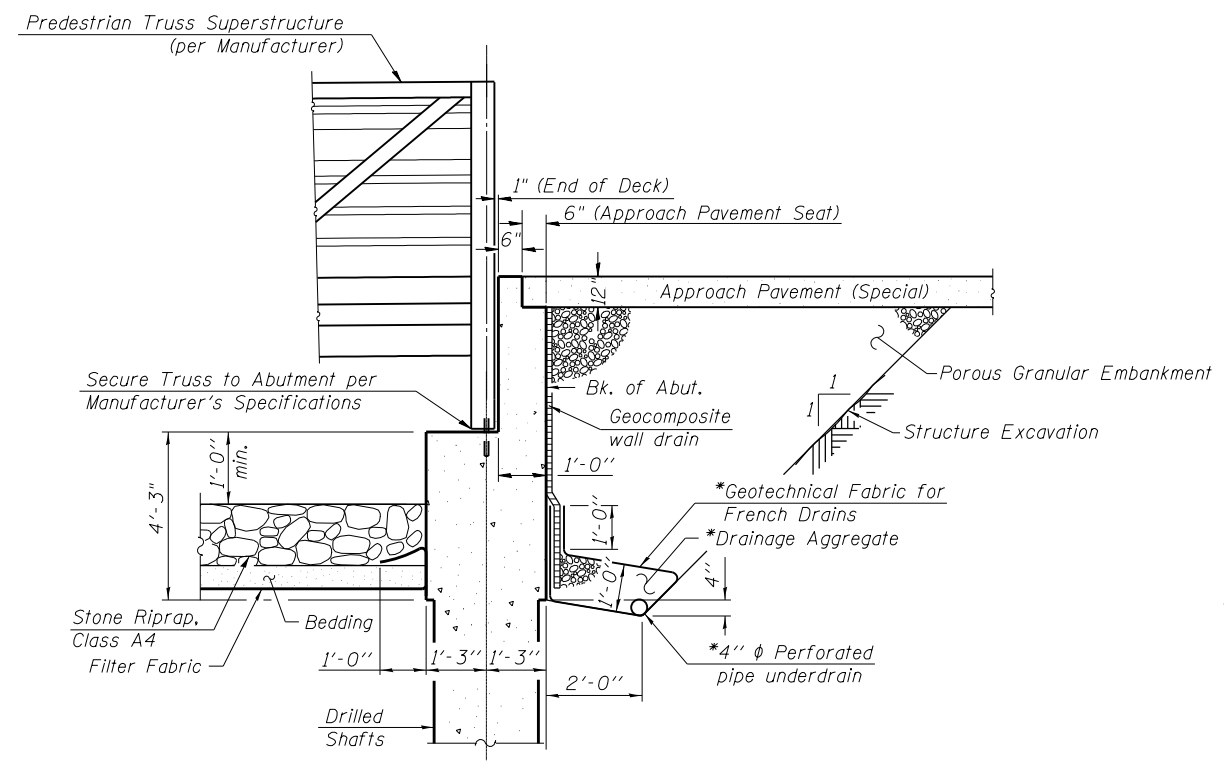
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	47
				CONTRACT NO. 93711

ILLINOIS FED. AID PROJECT
 Klinaner & Associates P.C.

GENERAL PLAN
BILL KLINGNER TRAIL OVER CEDAR CREEK
SECTION 16-P4003-04-BT
ADAMS COUNTY
STATION 149+22.00
STRUCTURE NO. 001-F003.3

GENERAL NOTES

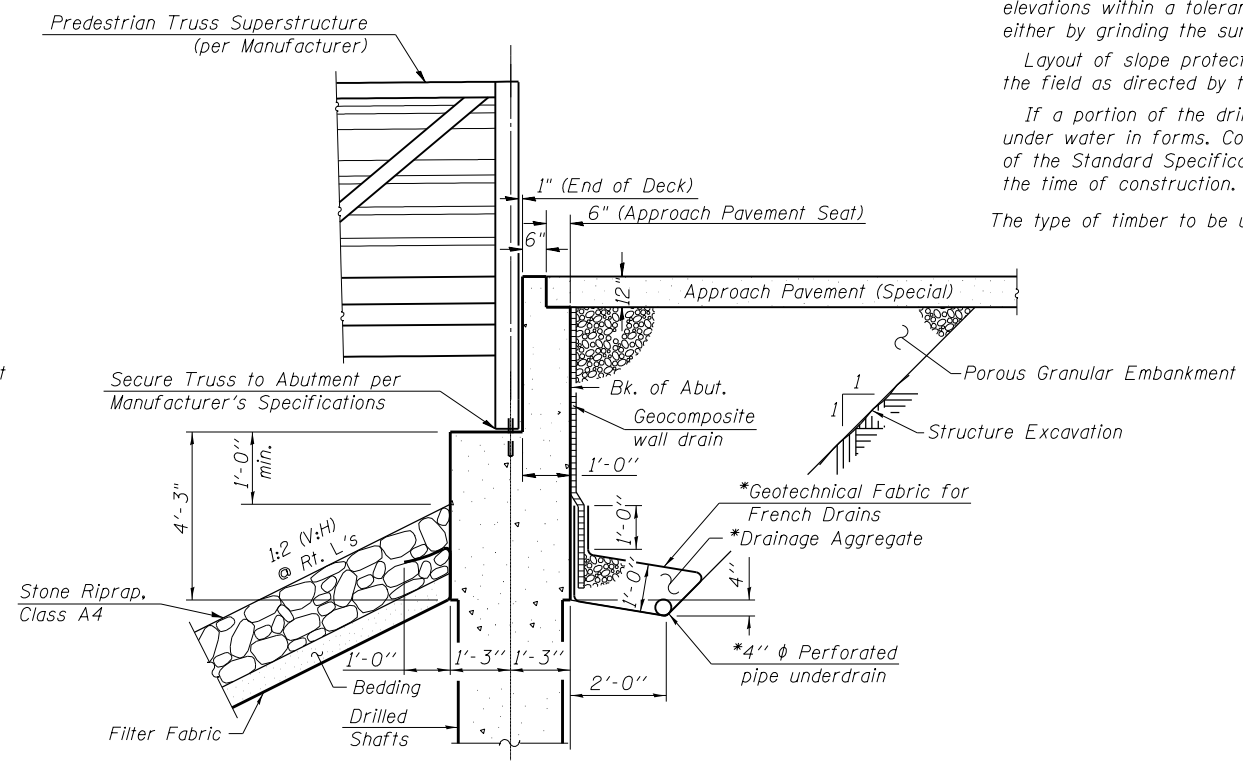
No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
 Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 If a portion of the drilled shaft is under water, reinforcement may be placed under water in forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
 The type of timber to be used for the bridge deck shall be Treated, Douglas Fir.



SECTION THRU WEST ABUTMENT

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

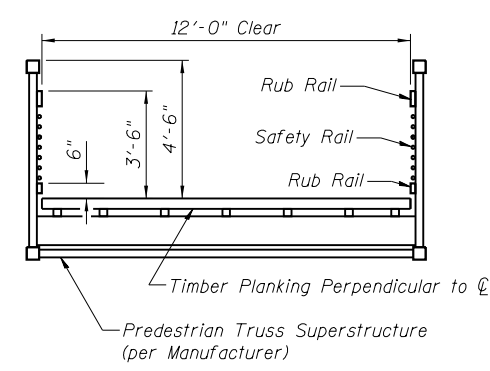
Note:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



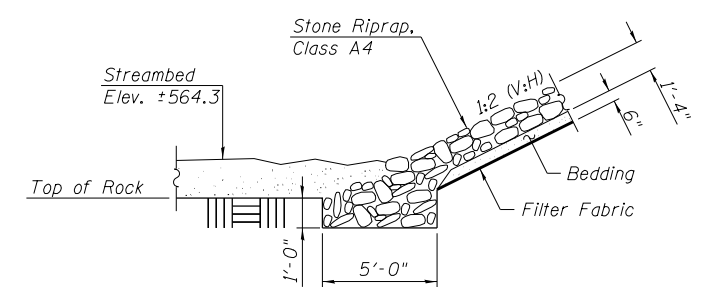
SECTION THRU EAST ABUTMENT

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



CROSS SECTION
 (Looking East)



SECTION A-A

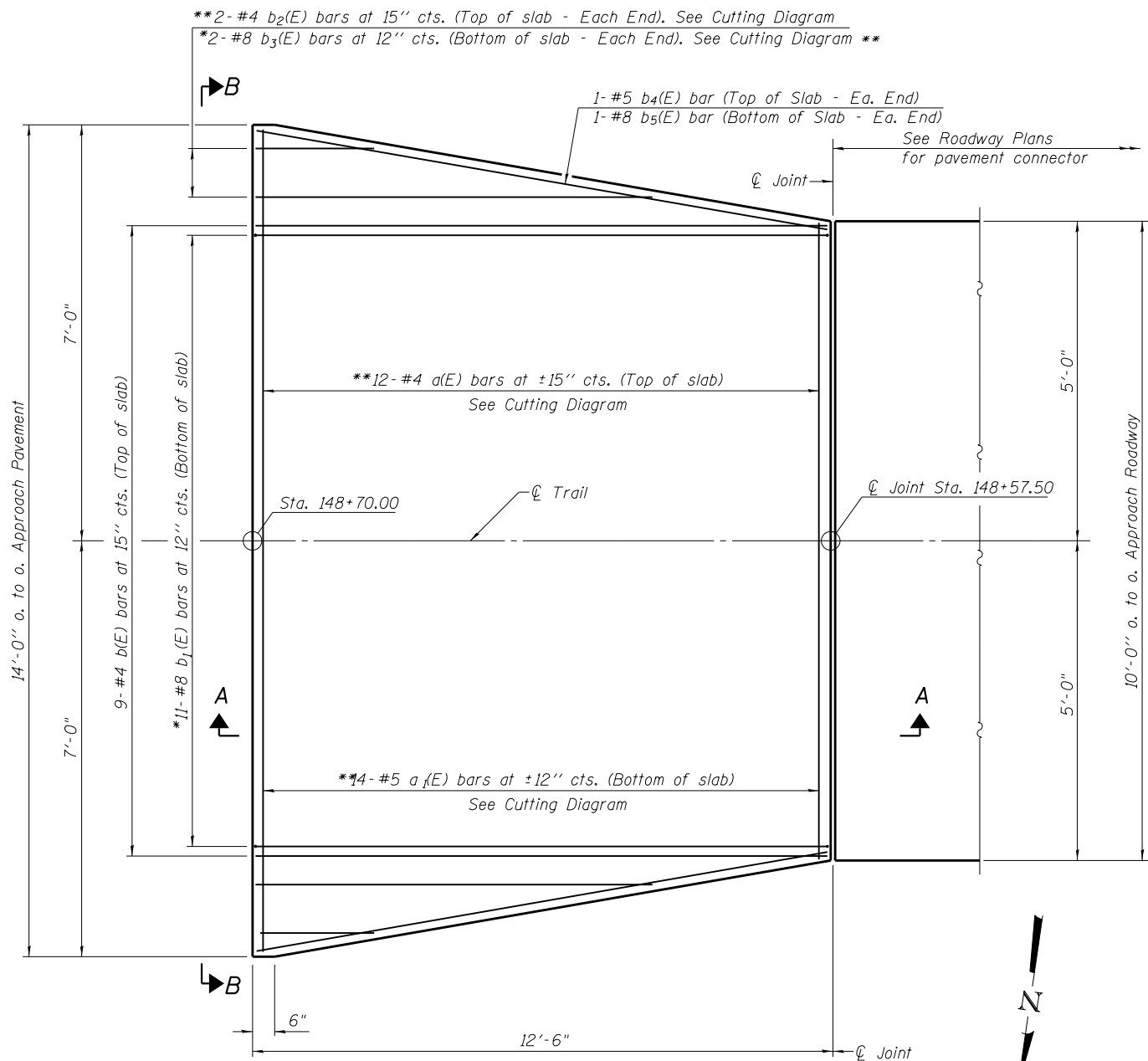
STATION 149+22.00
 BUILT 201_ BY
 QUINCY PARK DISTRICT
 SEC. 16-P4003-04-BT
 LOADING H-10
 STRUCTURE NO. 001-F003.3

NAME PLATE
 See Std. 515001

TOTAL BILL OF MATERIAL

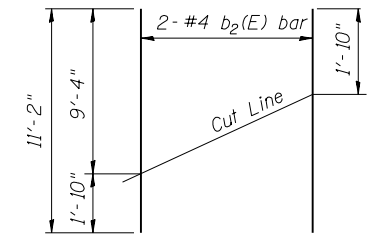
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		56	56
Stone Riprap, Class A4	Sq. Yd.		241	241
Filter Fabric	Sq. Yd.		241	241
Structure Excavation	Cu. Yd.		15	15
Concrete Structures	Cu. Yd.		23.2	23.2
Protective Coat	Sq. Yd.	34		34
Reinforcement Bars, Epoxy Coated	Pound		5720	5720
Name Plates	Each	1		1
Drilled Shaft in Soil	Cu. Yd.		4.3	4.3
Drilled Shaft in Rock	Cu. Yd.		1.6	1.6
Concrete Sealer	Sq. Ft.		272	272
Geocomposite Wall Drain	Sq. Yd.		40	40
Pipe Underdrains for Structures 4"	Foot		97	97
Pedestrian Truss Superstructure	Sq. Ft.	1234		1234
Chain Link Fence, 6' (Special)	Foot		48	48
Bridge Approach Pavement (Special)	Sq. Yd.	34		34

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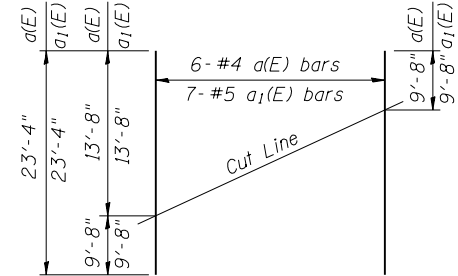
PLAN

*Tilt #8 $b_1(E)$ & $b_3(E)$ bars as required to maintain clearance.
**After cutting



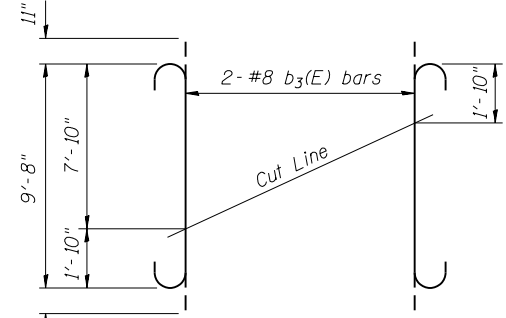
FIELD CUTTING DIAGRAM

Order $b_2(E)$ full length. Cut as shown and use remainder of bars at opposite end.



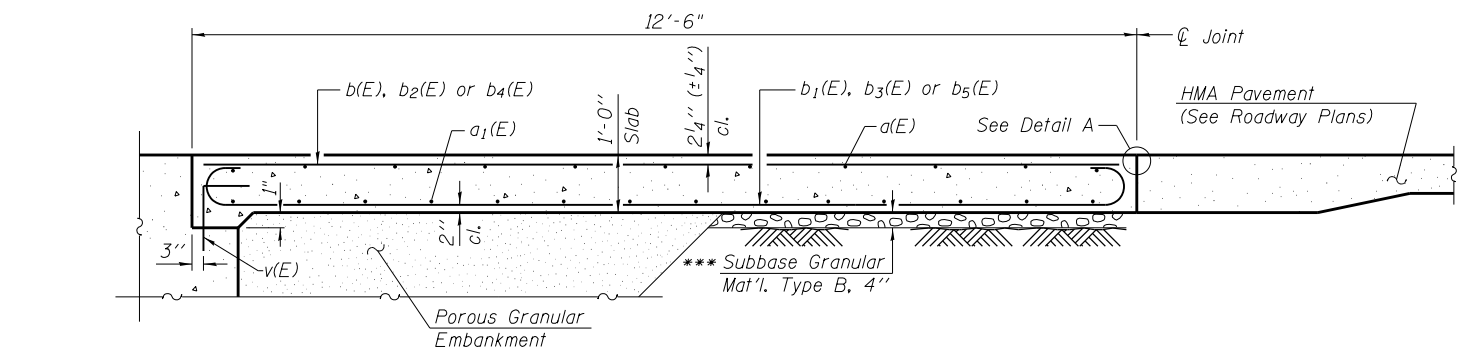
FIELD CUTTING DIAGRAM

Order $a(E)$ & $a_1(E)$ full length. Cut as shown and use remainder of bars at opposite end.



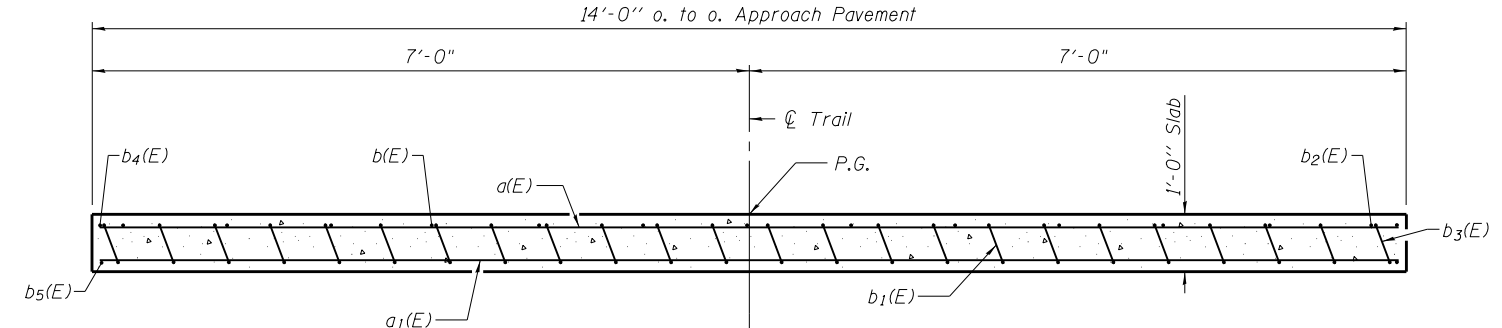
FIELD CUTTING DIAGRAM

Order $b_3(E)$ full length. Cut as shown and use remainder of bars at opposite end.



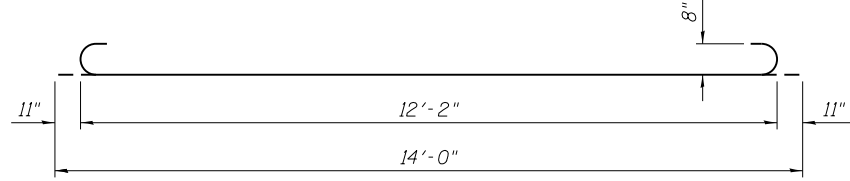
SECTION A-A

***Cost included with Bridge Approach Pavement (Special)

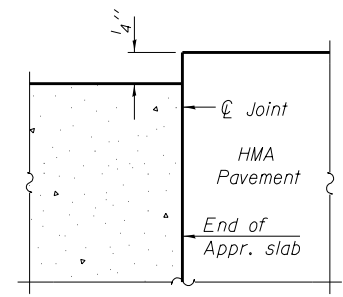


SECTION B-B

(See Plan for dimensions not shown)



BAR $b_1(E)$

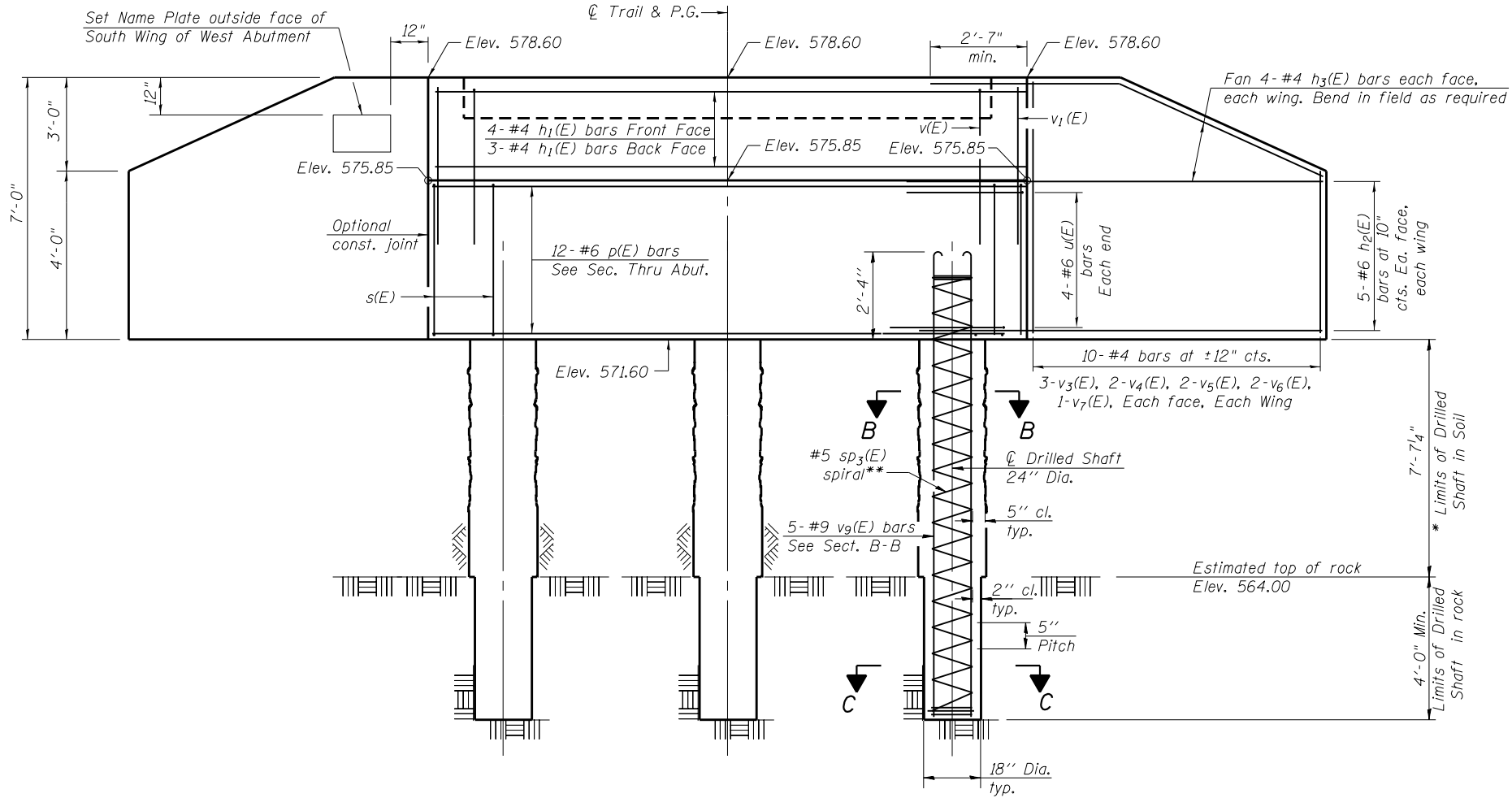


FLEXIBLE PAVEMENT DETAIL A

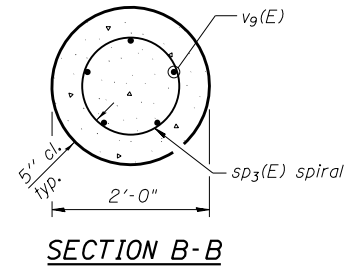
Notes:
 $a(E)$ and $a_1(E)$ bar spacings measured along \varnothing Trail.
Approach slab concrete and reinforcement shall be paid for as Bridge Approach Pavement (Special).
For $v(E)$ bar details, see sheet 5 of 7.
For Porous Granular Embankment and drainage treatment details, see sheet 2 of 7.

BILL OF MATERIAL

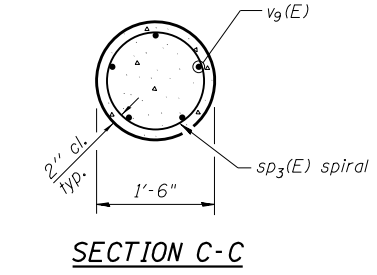
Bar	No.	Size	Length	Shape
$a(E)$	6	#4	23'-4"	—
$a_1(E)$	7	#5	23'-4"	—
$b(E)$	9	#4	12'-2"	—
$b_1(E)$	11	#8	14'-0"	U
$b_2(E)$	2	#4	11'-2"	—
$b_3(E)$	2	#8	11'-6"	U
$b_4(E)$	2	#5	12'-4"	—
$b_5(E)$	2	#8	12'-4"	—
Protective Coat			Sq. Yd.	17
Bridge Approach Pavement (Special)			Sq. Yd.	17



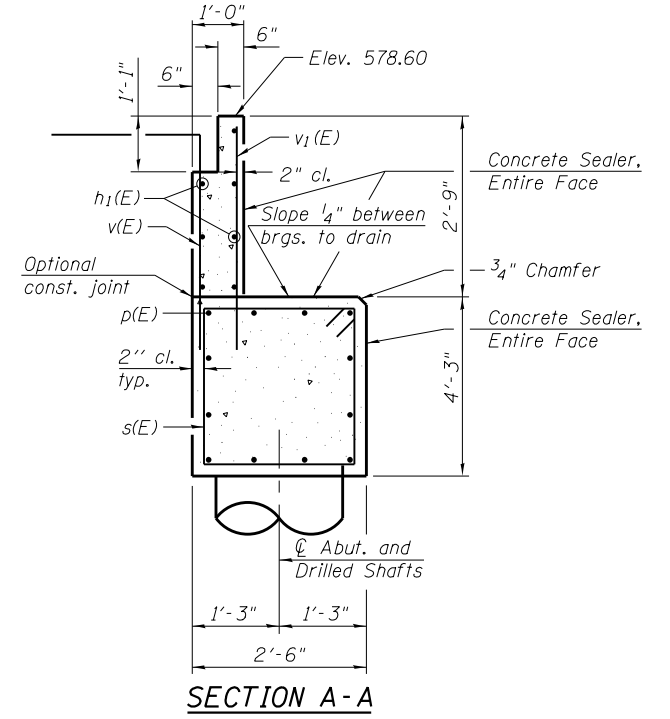
ELEVATION
(Looking West)



SECTION B-B



SECTION C-C

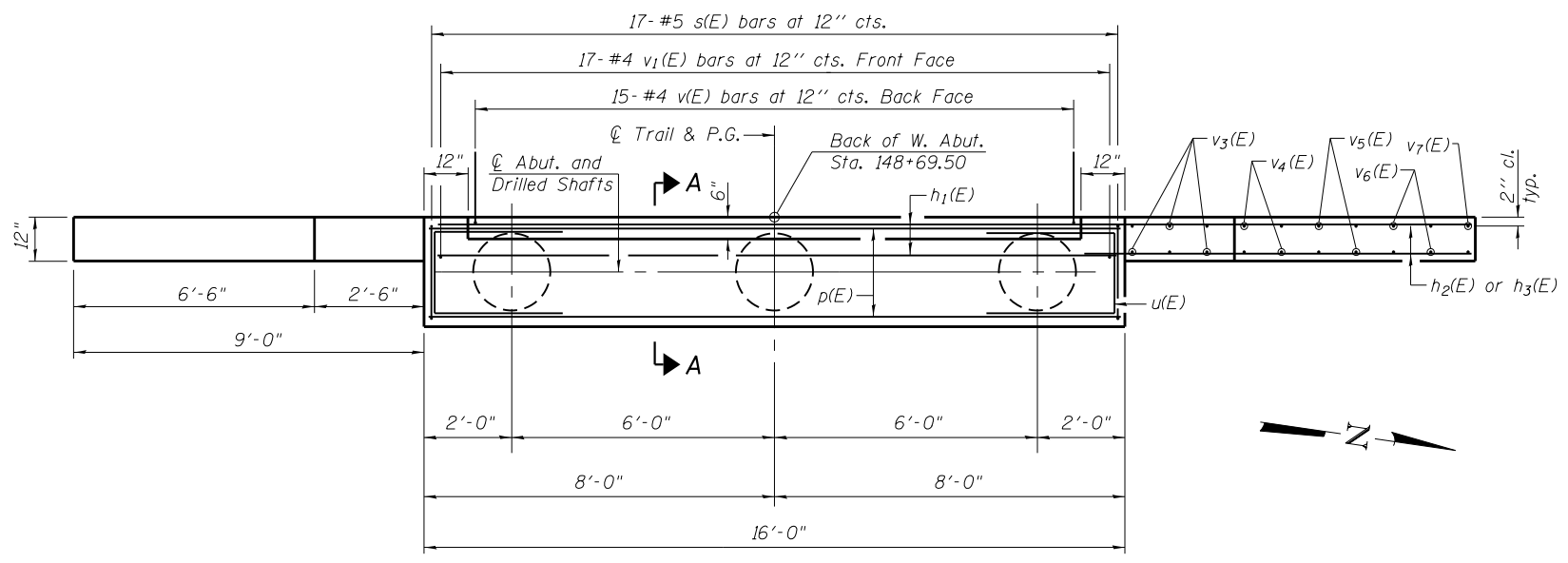


SECTION A-A

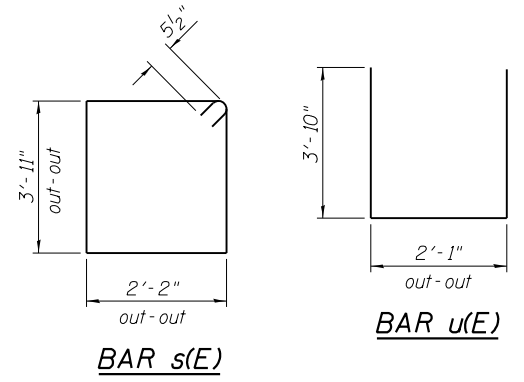
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	7	#4	15'-8"	—
h2(E)	20	#6	13'-7"	—
h3(E)	16	#4	12'-1"	—
p(E)	12	#6	15'-8"	—
s(E)	17	#5	13'-1"	□
*** sp3(E)	3	#5	12'-10"	⋈
u(E)	8	#6	9'-9"	⌌
v(E)	15	#4	7'-0"	└
v1(E)	17	#4	4'-0"	—
v3(E)	12	#4	6'-8"	—
v4(E)	8	#4	6'-1"	—
v5(E)	8	#4	5'-3"	—
v6(E)	8	#4	4'-3"	—
v7(E)	4	#4	3'-8"	—
v9(E)	15	#9	15'-0"	┘
Structure Excavation		Cu. Yd.	15	
Concrete Structures		Cu. Yd.	11.6	
Reinforcement Bars, Epoxy Coated		Pound	2980	
Drilled Shaft in Soil		Cu. Yd.	2.7	
Drilled Shaft in Rock		Cu. Yd.	0.8	
Concrete Sealer		Sq. Ft.	136	
Name Plates		Each	1	

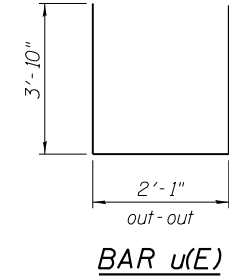
Concrete Sealer shall be applied to the front face of the backwall, top of cap, and front face of cap. Space cap reinforcement to miss anchor bolts.
 Minimum lap for spirals = 3'-4"
 * The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
 ** Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 1'-3" into abutment cap. Provide min. 4-#4 spacers or equivalent.
 *** Length is height of spiral.



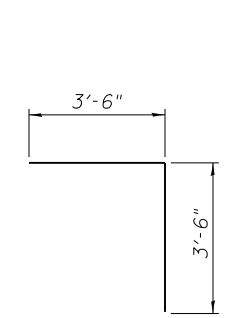
PLAN



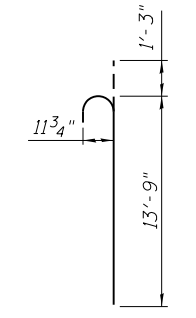
BAR s(E)



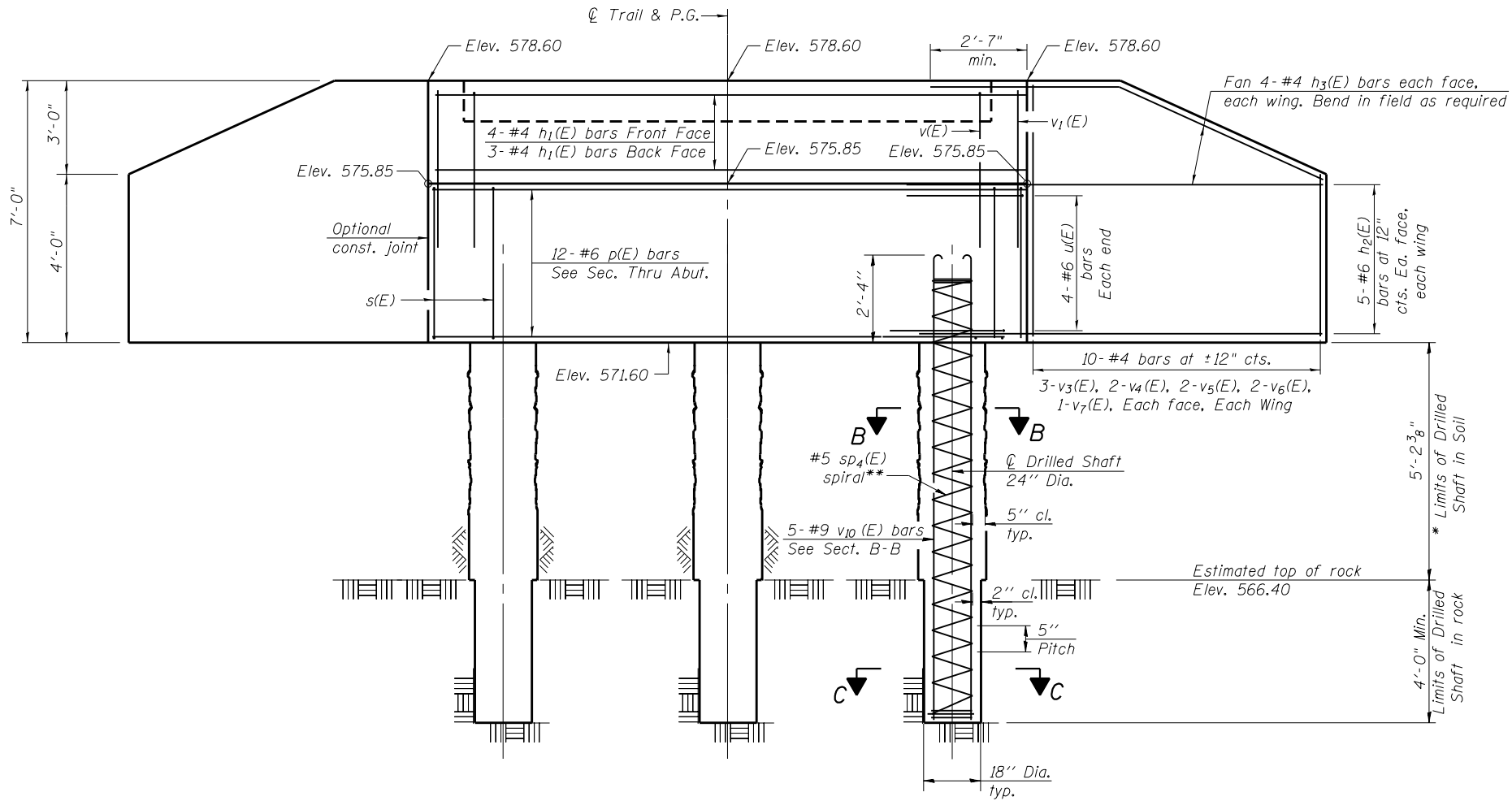
BAR u(E)



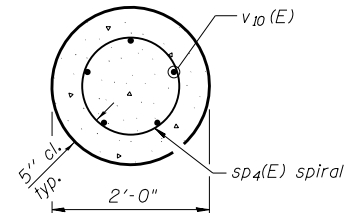
BAR v(E)



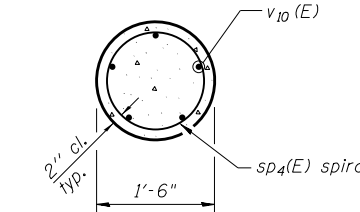
BAR v9(E)



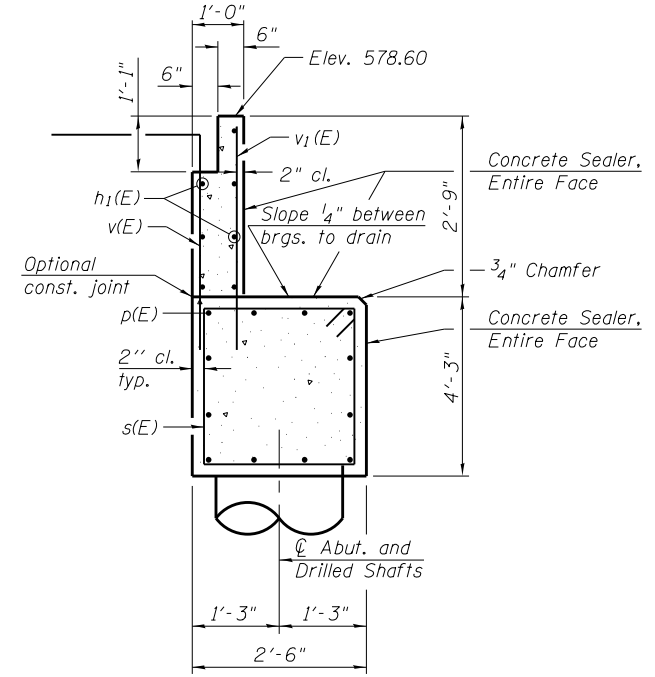
ELEVATION
(Looking East)



SECTION B-B



SECTION C-C

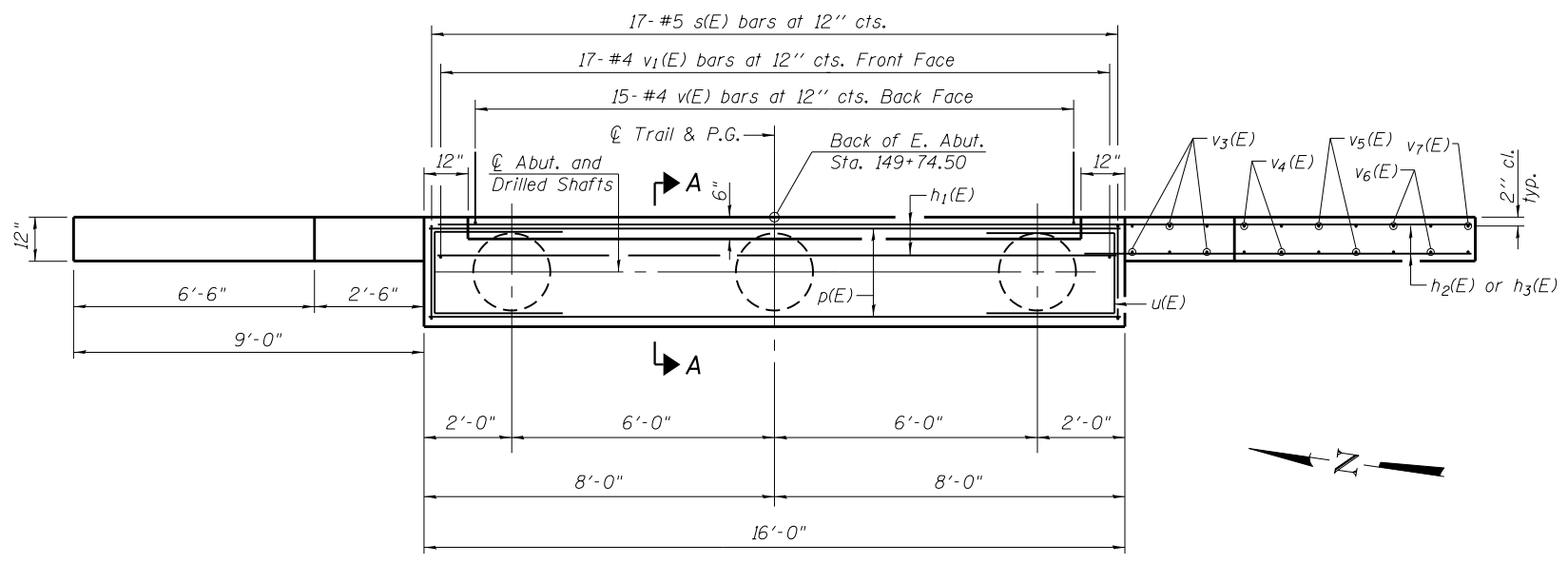


SECTION A-A

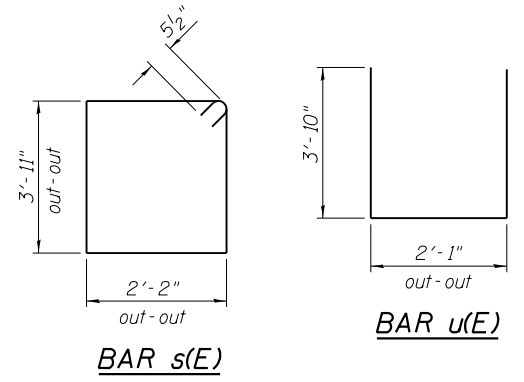
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	7	#4	15'-8"	—
h ₂ (E)	20	#6	13'-7"	—
h ₃ (E)	16	#4	12'-1"	—
p(E)	12	#6	15'-8"	—
s(E)	17	#5	13'-1"	□
*** sp ₄ (E)	3	#5	10'-5"	⋈
u(E)	8	#6	9'-9"	⌊
v(E)	15	#4	7'-0"	└
v ₁ (E)	17	#4	4'-0"	—
v ₃ (E)	12	#4	6'-8"	—
v ₄ (E)	8	#4	6'-1"	—
v ₅ (E)	8	#4	5'-3"	—
v ₆ (E)	8	#4	4'-3"	—
v ₇ (E)	4	#4	3'-8"	—
v ₁₀ (E)	15	#9	12'-7"	—
Concrete Structures		Cu. Yd.	11.6	
Reinforcement Bars, Epoxy Coated		Pound	2740	
Drilled Shaft in Soil		Cu. Yd.	1.6	
Drilled Shaft in Rock		Cu. Yd.	0.8	
Concrete Sealer		Sq. Ft.	136	

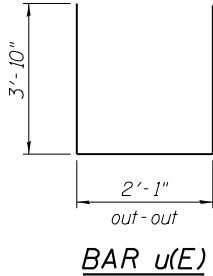
Concrete Sealer shall be applied to the front face of the backwall, top of cap, and front face of cap. Space cap reinforcement to miss anchor bolts.
 Minimum lap for spirals = 3'-4"
 * The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
 ** Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 1'-3" into abutment cap. Provide min. 4-#4 spacers or equivalent.
 *** Length is height of spiral.



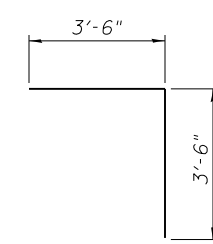
PLAN



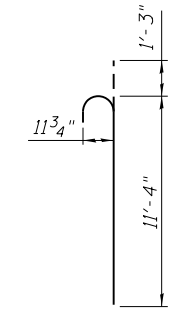
BAR s(E)



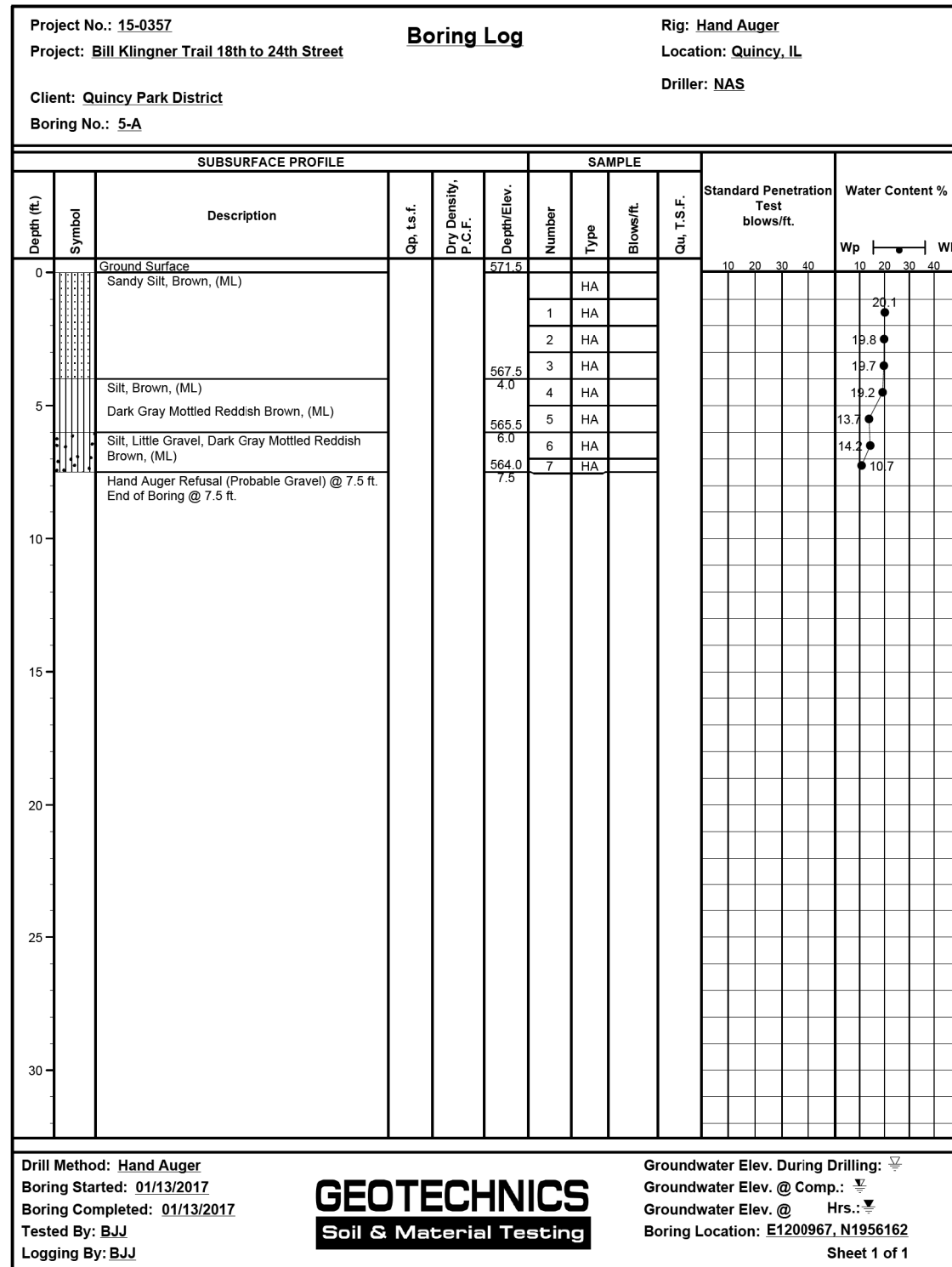
BAR u(E)



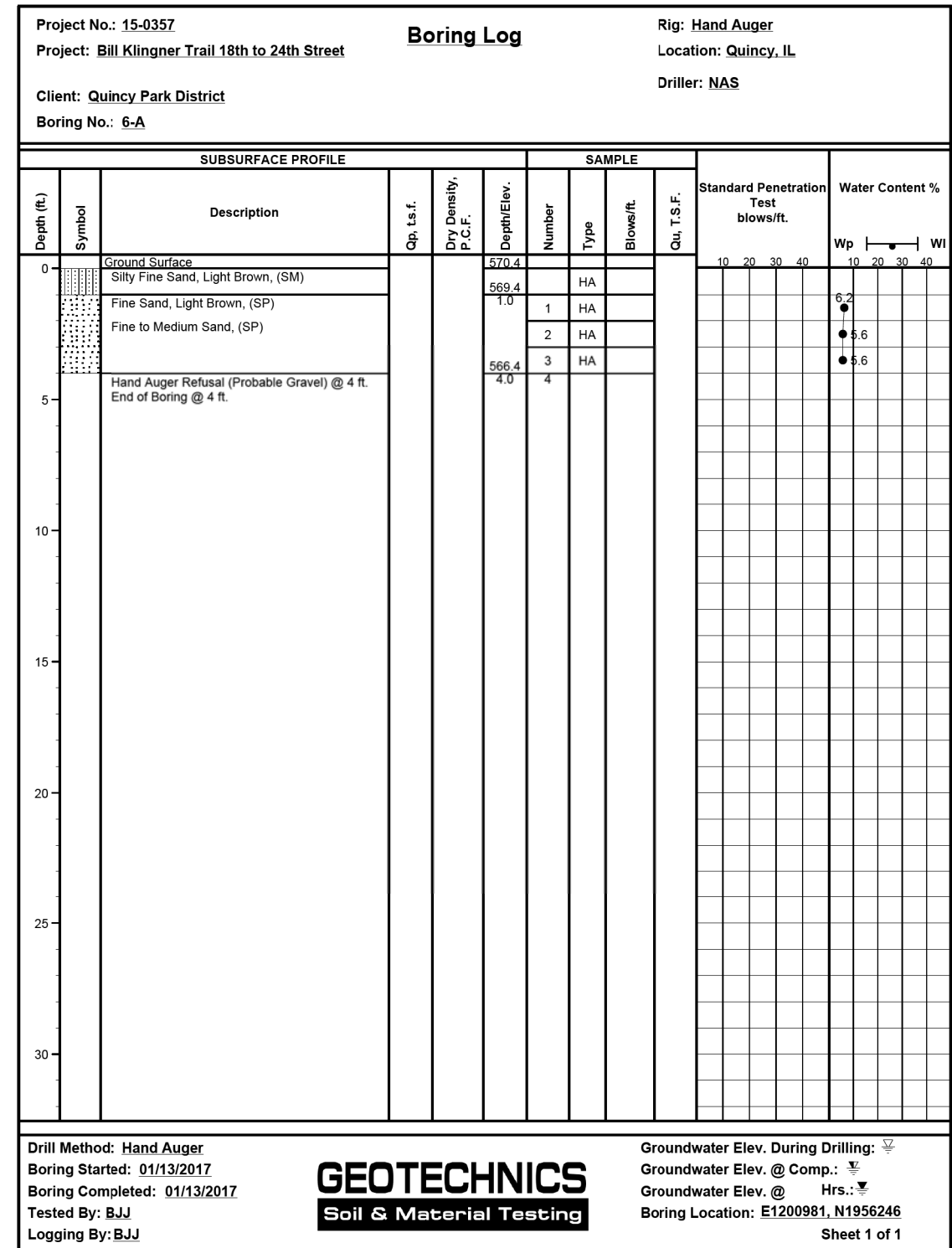
BAR v(E)



BAR v₁₀(E)



BORING 5-A



BORING 6-A

USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 10/5/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	53
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

12:54:15 PM
10/15/2018

Benchmark: Railroad spike in East face of power pole on the North side of Cedar Creek and West side of North 18th Street-Elev. 565.15.

INDEX OF SHEETS

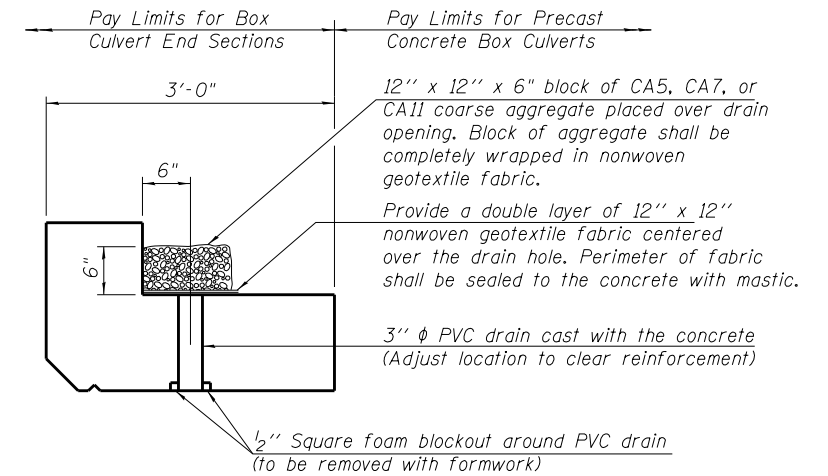
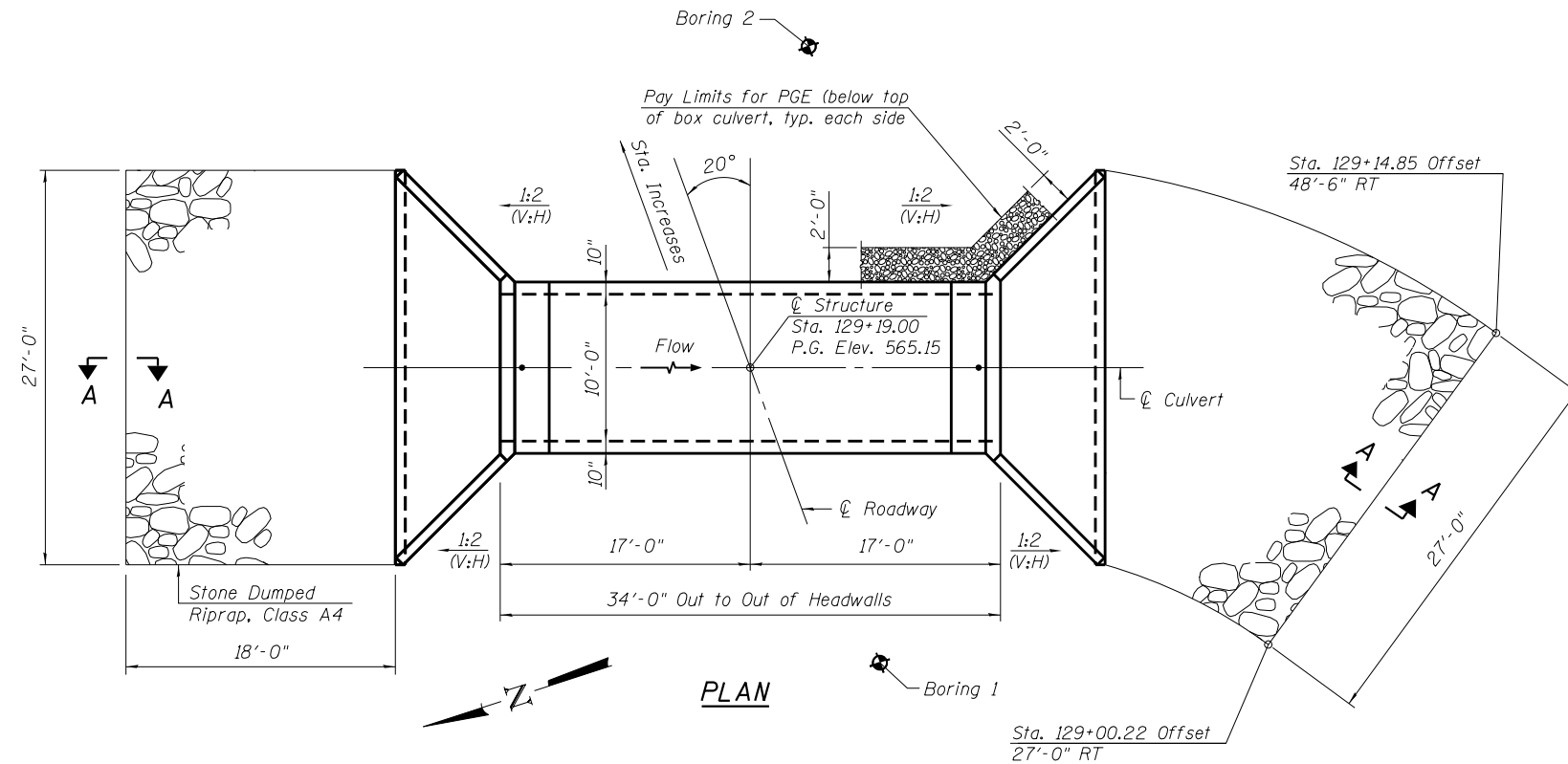
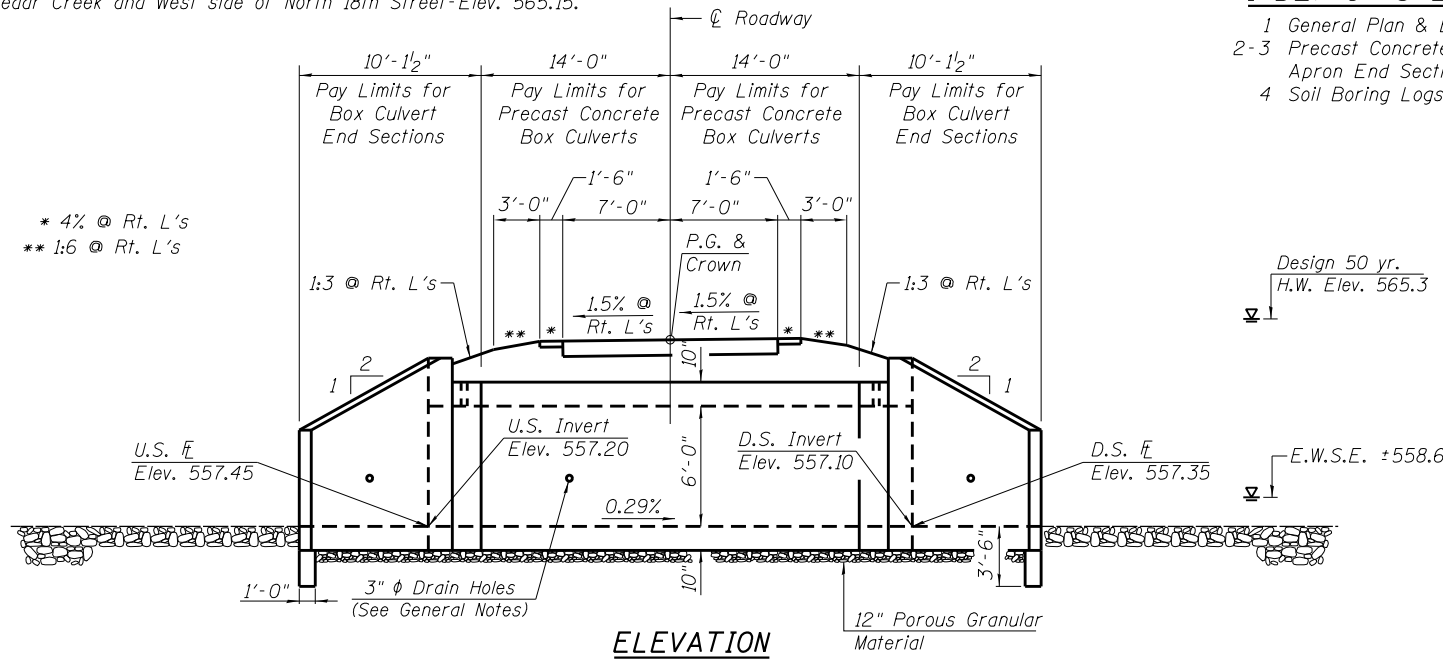
- 1 General Plan & Elevation
- 2-3 Precast Concrete Box Culvert
- Apron End Section Details
- 4 Soil Boring Logs

GENERAL NOTES

The design fill height for this box is 2 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
 The 12 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.

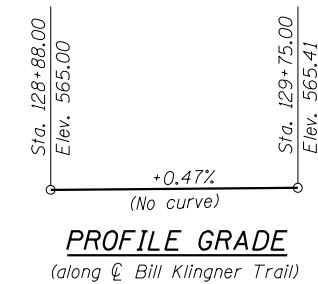
SEQUENCE OF CONSTRUCTION

- 1 Perform structure excavation and place porous granular material under box
- 2 Set precast concrete culvert box sections
- 3 Set precast concrete culvert end sections



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications
7th Edition with 2016 Interims

LOADING H-10/PEDESTRIAN

No allowance for future wearing surface

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

TOTAL BILL OF MATERIAL

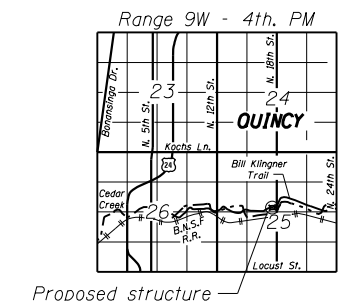
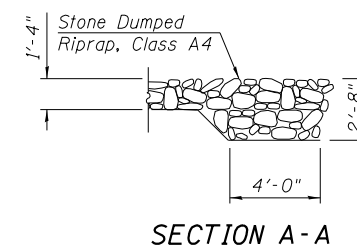
ITEM	UNIT	TOTAL
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 10'x6'	Foot	28
Porous Granular Embankment	Cu. Yd.	54
Membrane Waterproofing System for Buried Structures	Sq. Yd.	52
Stone Dumped Riprap, Class A4	Sq. Yd.	130
Structure Excavation	Cu. Yd.	92

WATERWAY INFORMATION

Drainage Area = 0.56 mi.² Proposed Overtopping Elev. 563.85 @ Sta. 131+25.0

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater EL.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	114	-	16	562.5	-	0.0	-	562.5
Base	50	190	-	22	563.2	-	0.2	-	563.4
Scour Design	100	226	-	25	563.4	-	0.4	-	563.8
Overtopping	200	262	-	28	563.6	-	0.5	-	564.2
Max. Calc.	>500	-	-	-	-	-	-	-	-
	500	313	-	31	563.9	-	0.7	-	564.6

10 year velocity through proposed bridge = 6.63 ft/s
 Natural H.W.E. controlled by backwater effects of Cedar Creek = 566.6



KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors

USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 10/5/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

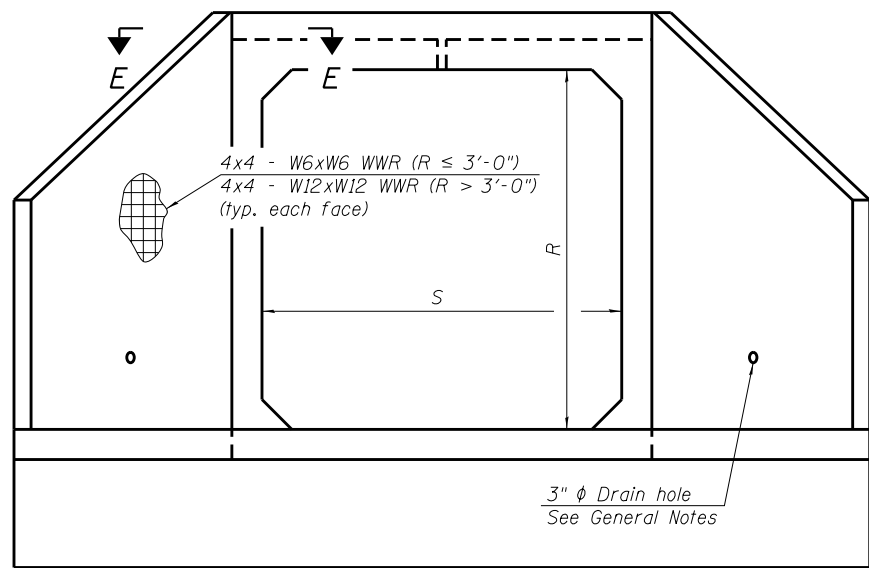
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
BILL KLINGNER TRAIL OVER CEDAR CREEK TRIBUTARY

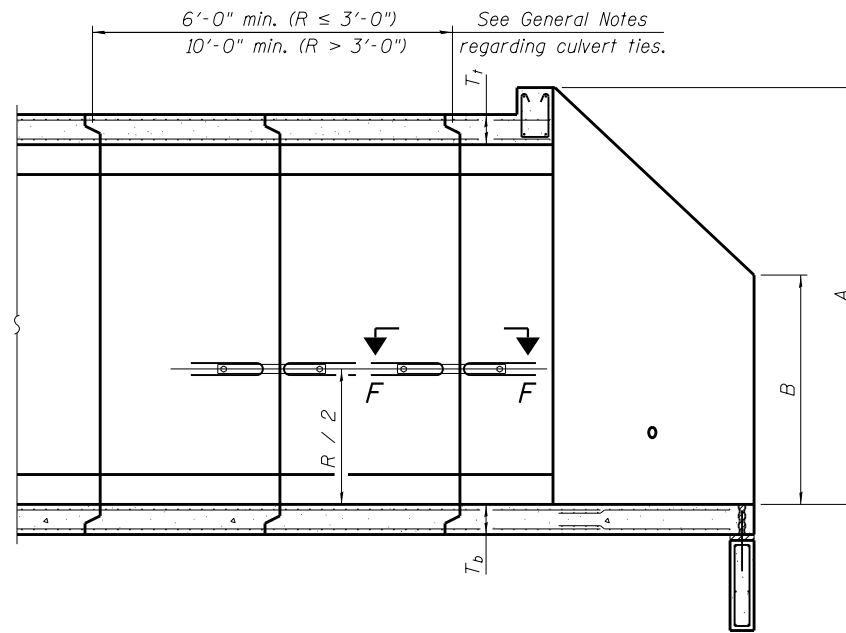
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	54
CONTRACT NO. 93711				

SHEET NO. 1 OF 4 SHEETS

ILLINOIS FED. AID PROJECT
 Klingner & Associates P.C.



END VIEW



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

All exposed concrete edges shall be chamfered 3/4" unless noted otherwise.

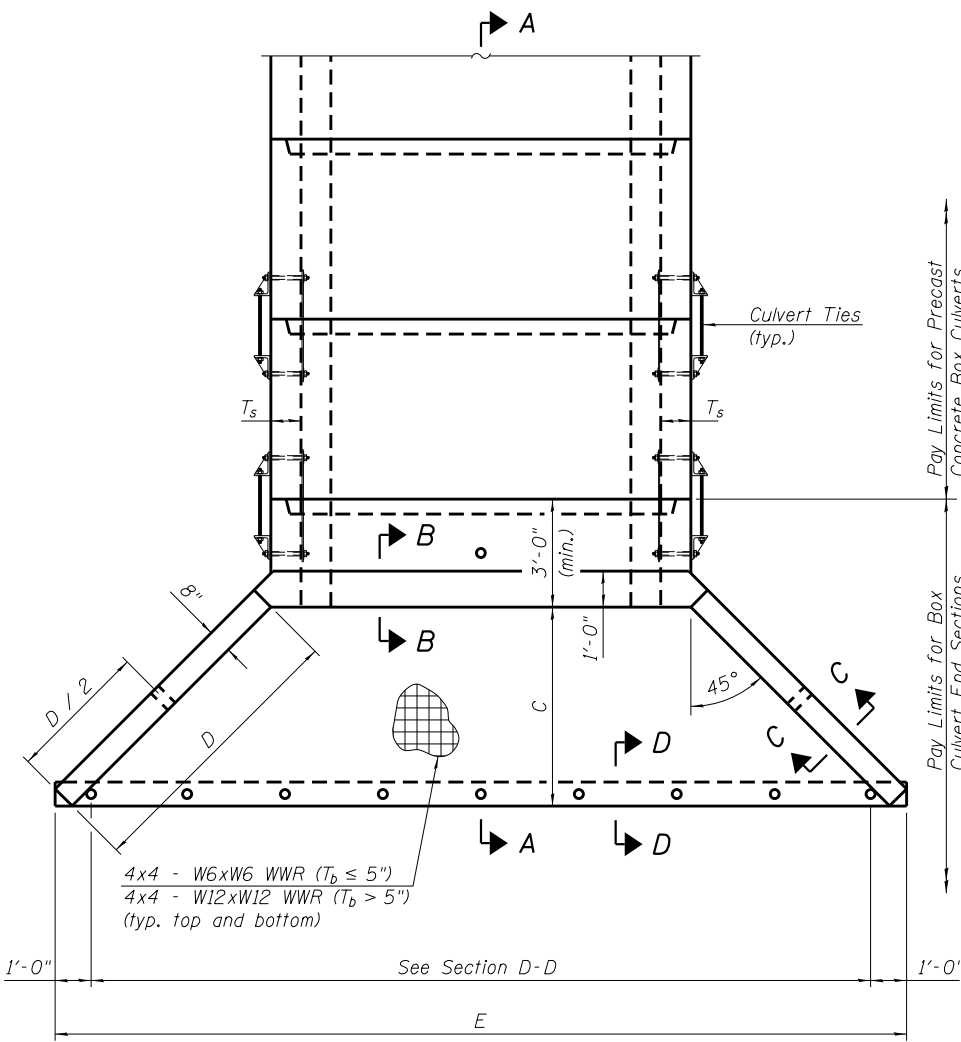
The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



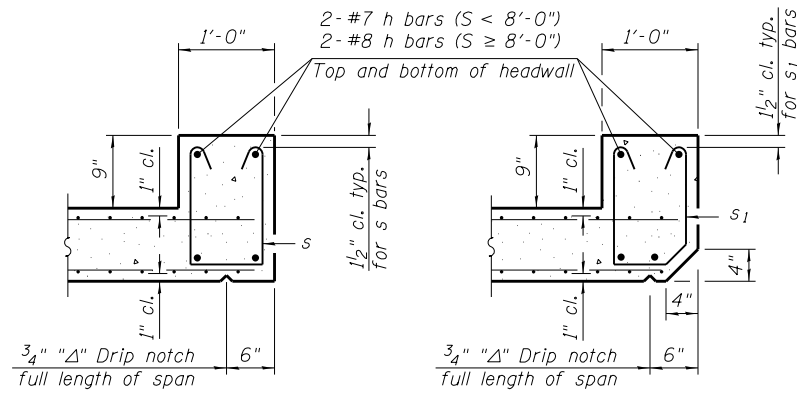
PLAN

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	T ₁	T ₂	T ₃	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	10'-4 ⁵ / ₈ "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 ⁷ / ₈ "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	12'-4 ⁵ / ₈ "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ / ₈ "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 ¹ / ₂ "	2'-2 ¹ / ₂ "	2'-11 ³ / ₈ "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 ¹ / ₂ "	3'-10"	11'-2 ³ / ₈ "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 ¹ / ₂ "	2'-8 ¹ / ₂ "	3'-11 ³ / ₈ "	5'-7"	13'-8 ¹ / ₈ "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 ¹ / ₂ "	5'-3"	13'-2 ³ / ₈ "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 ¹ / ₂ "	3'-2 ¹ / ₂ "	4'-11 ³ / ₈ "	7'-0"	15'-8 ¹ / ₈ "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 ⁵ / ₈ "	6'-8"	15'-2 ¹ / ₂ "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 ¹ / ₄ "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	14'-7 ¹ / ₄ "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 ¹ / ₄ "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	16'-10 ¹ / ₈ "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 ¹ / ₄ "	6'-9"	16'-5 ⁷ / ₈ "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	18'-10 ¹ / ₈ "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 ¹ / ₄ "	8'-2"	18'-5 ⁷ / ₈ "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	13'-10 ⁵ / ₈ "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	16'-0 ¹ / ₈ "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 ⁵ / ₈ "	5'-6"	15'-10 ⁵ / ₈ "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	18'-0 ¹ / ₈ "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 ³ / ₄ "	6'-11"	17'-10 ³ / ₄ "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	20'-0 ¹ / ₈ "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 ³ / ₄ "	8'-4"	19'-10 ³ / ₄ "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	22'-0 ¹ / ₄ "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 ³ / ₄ "	9'-9"	21'-10 ³ / ₄ "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	17'-2 ¹ / ₈ "	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	19'-2 ¹ / ₈ "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	21'-2 ¹ / ₈ "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	23'-2 ¹ / ₄ "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	18'-2 ¹ / ₈ "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	20'-2 ¹ / ₈ "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	22'-2 ¹ / ₈ "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	24'-2 ¹ / ₄ "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 ³ / ₄ "	4'-4"	17'-6 ⁷ / ₈ "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 ³ / ₄ "	5'-9"	19'-6 ⁷ / ₈ "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 ³ / ₄ "	7'-2"	21'-6 ⁷ / ₈ "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 ⁷ / ₈ "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 ¹ / ₈ "	9'-11"	25'-5 ⁵ / ₈ "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 ¹ / ₂ "	4'-5"	18'-10 ¹ / ₄ "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 ¹ / ₂ "	5'-10"	20'-10 ¹ / ₄ "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 ¹ / ₂ "	7'-3"	22'-10 ³ / ₈ "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 ¹ / ₂ "	8'-8"	24'-10 ³ / ₈ "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 ¹ / ₂ "	10'-1"	26'-10 ³ / ₈ "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 ⁷ / ₈ "	4'-7"	20'-3 ¹ / ₈ "	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 ⁷ / ₈ "	6'-0"	22'-3 ¹ / ₈ "	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 ¹ / ₄ "	7'-4"	24'-1 ³ / ₄ "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 ¹ / ₄ "	8'-9"	26'-1 ³ / ₄ "	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 ¹ / ₄ "	10'-2"	28'-1 ⁷ / ₈ "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 ⁵ / ₈ "	4'-8"	21'-6 ² / ₂ "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 ⁵ / ₈ "	6'-1"	23'-6 ² / ₂ "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 ⁵ / ₈ "	7'-6"	25'-6 ⁵ / ₈ "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 ⁵ / ₈ "	8'-11"	27'-6 ⁵ / ₈ "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 ⁵ / ₈ "	10'-4"	29'-6 ⁵ / ₈ "	17.4	Yes

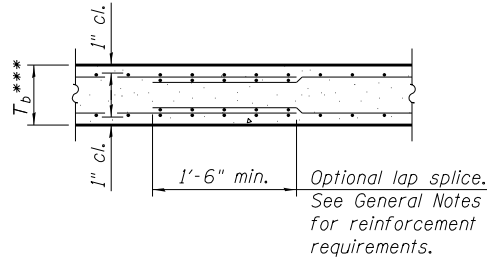
Note: Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

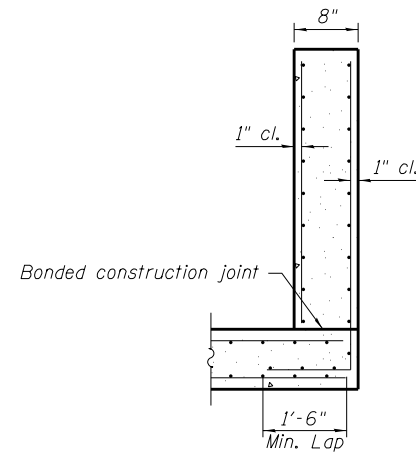


SECTION B-B
(Top slab at downstream end)

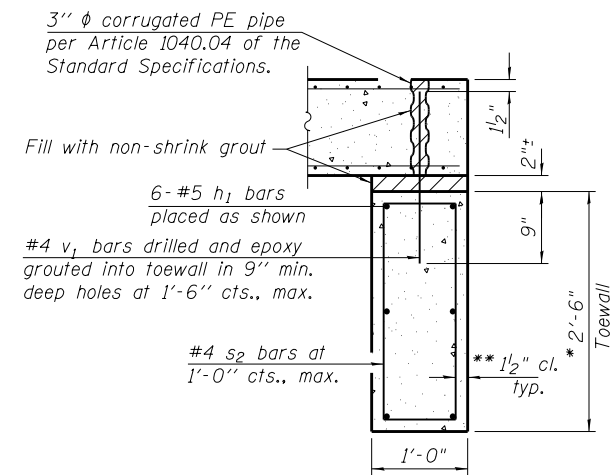
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)



SECTION C-C



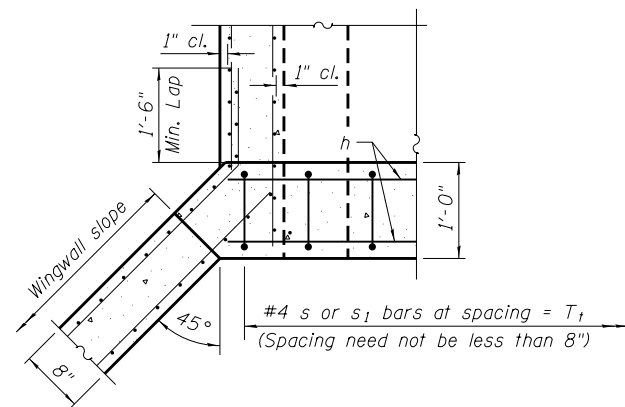
SECTION D-D

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

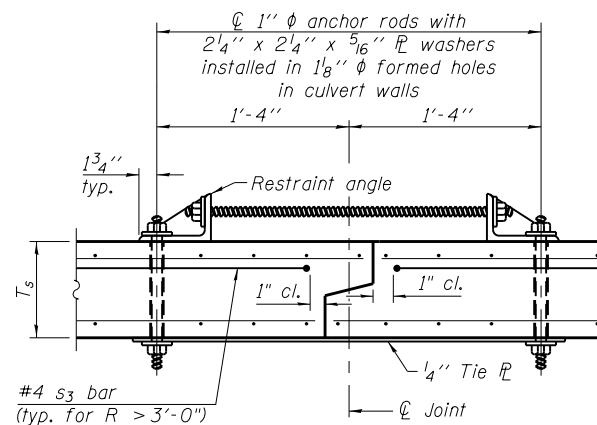
* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION E-E

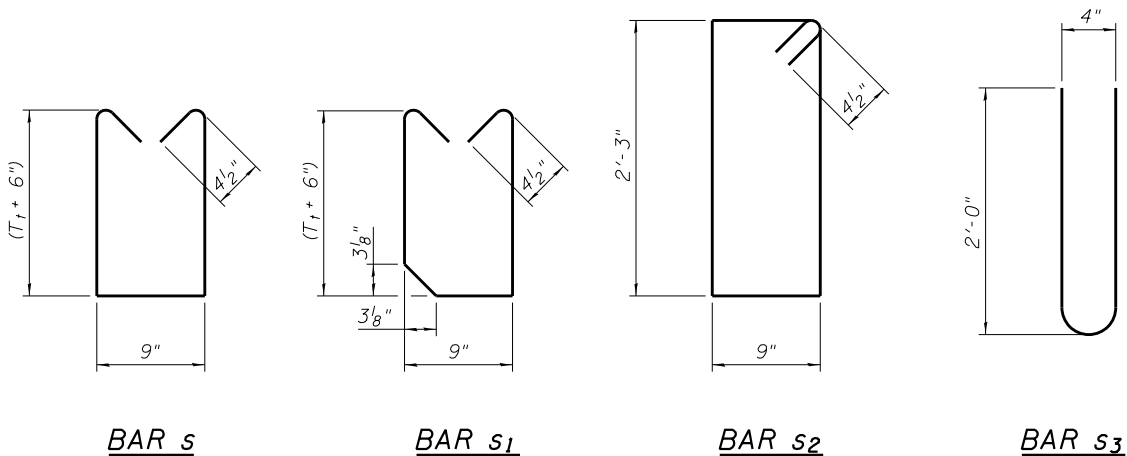
*** This dimension shall be increased by 2" for CIP construction.



SECTION F-F
(Showing culvert tie details)

Notes:

1" diameter anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4 x 2 1/4 x 5/16 inch plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

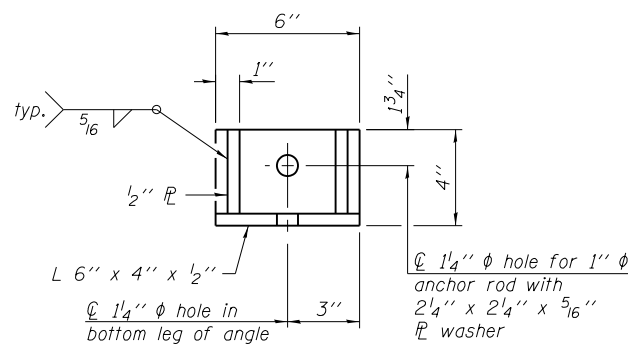


BAR s

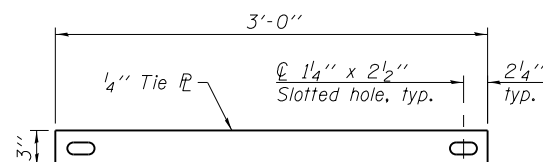
BAR s1

BAR s2

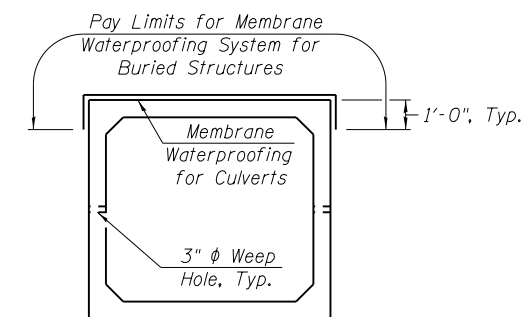
BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL



MEMBRANE WATERPROOFING DETAIL

(Sheet 2 of 2)

D:\151\151\150337\05\Plans\Current\Brdge Plans\Final Plans.dgn

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors

USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 10/5/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

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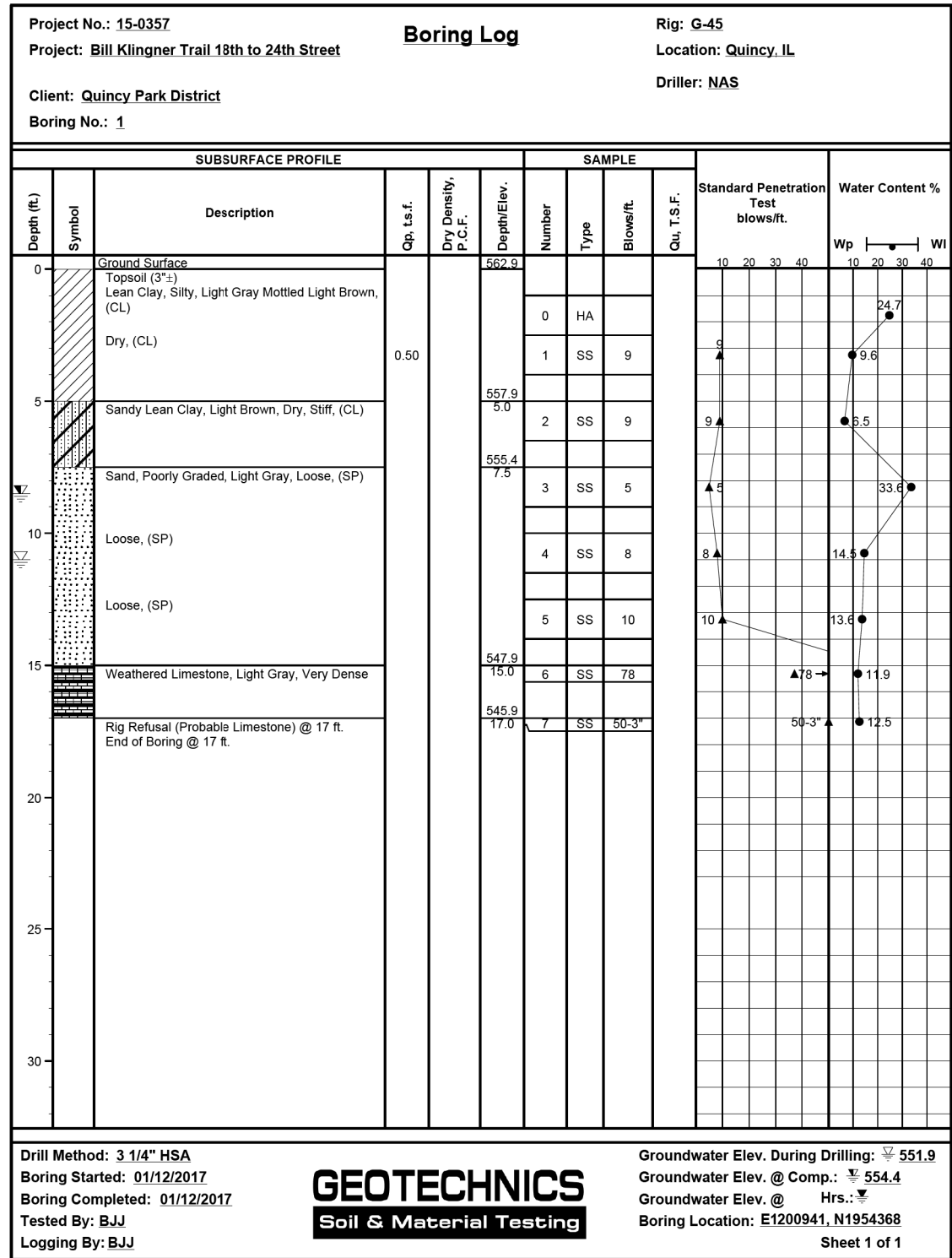
**PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 001-F003.1**

SHEET NO. 3 OF 4 SHEETS

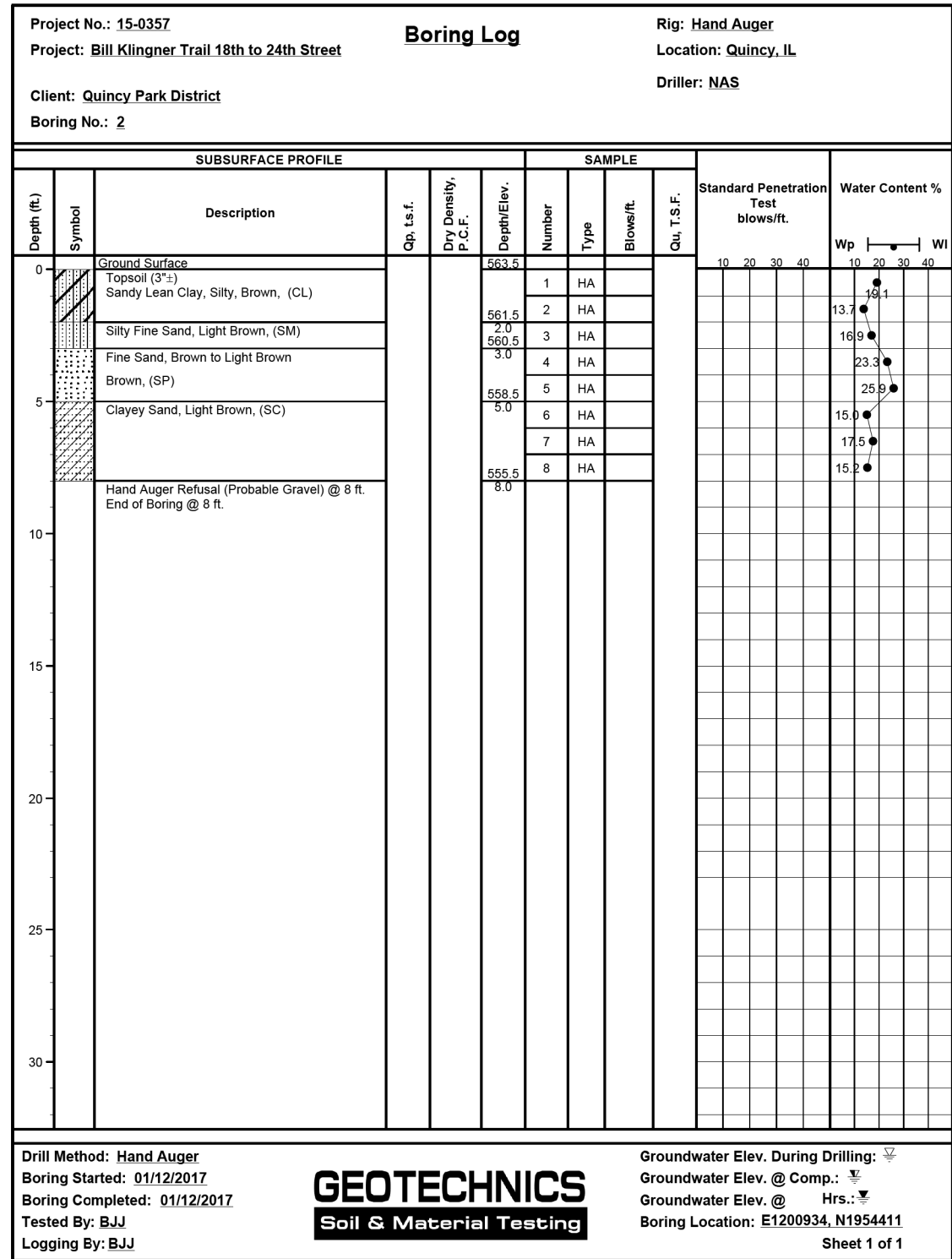
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	56
CONTRACT NO. 93711				

ILLINOIS FED. AID PROJECT
Klingner & Associates P.C.

10/5/2018 12:54:59 PM
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BORING 1



BORING 2

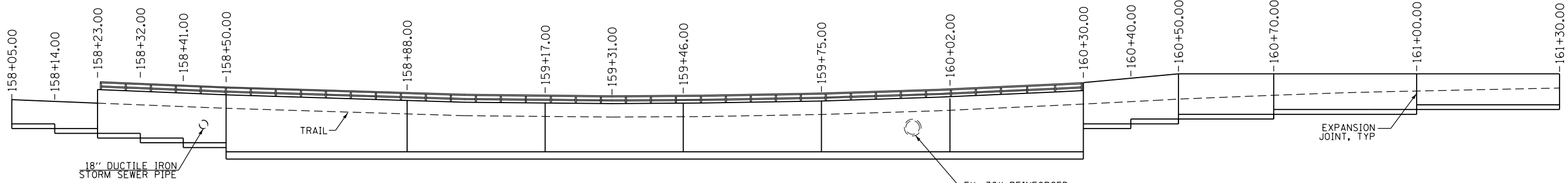


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PLOT DATE = 10/5/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

**STATE OF ILLINOIS
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**SOIL BORING LOGS
STRUCTURE NO. 001-F003.1**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	57
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



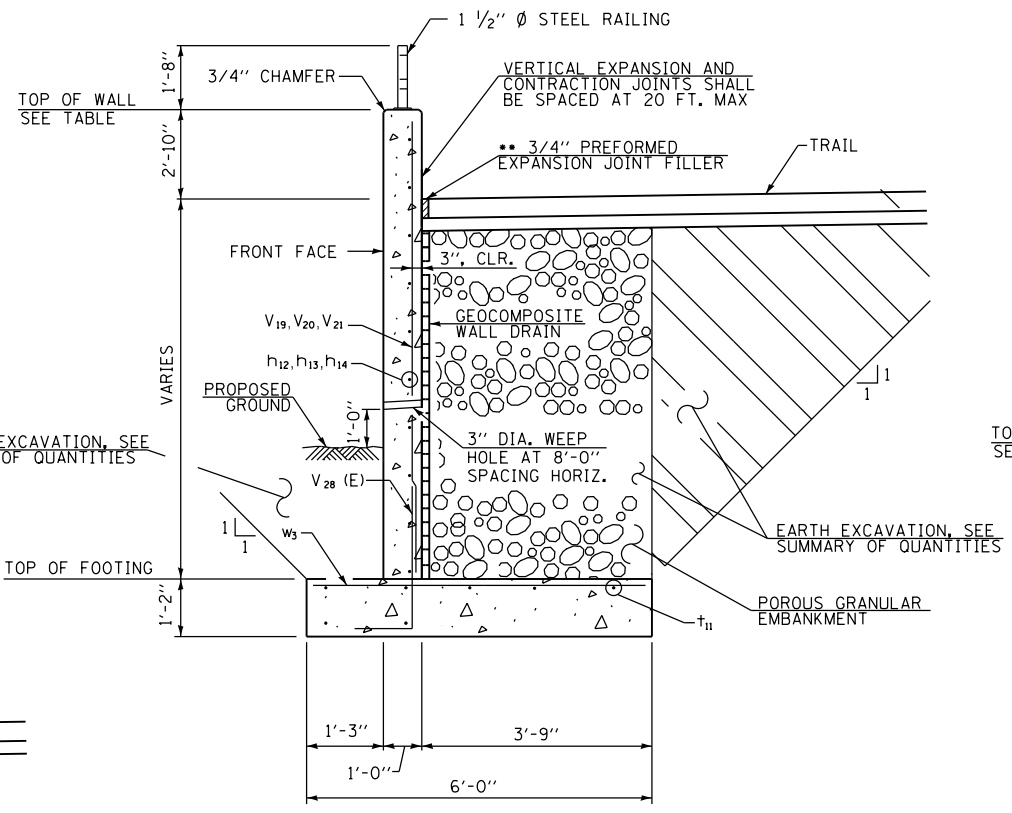
WALL PROFILE - LOCATION 3

LOCATION 3		
STATION	TOP OF WALL	TOP OF FOOTING
158+05.00	576.08	571.00
158+14.00	575.72	570.00
158+23.00	575.35	570.00
158+23.00	578.18	569.00
158+32.00	577.88	568.00
158+41.00	577.59	567.00
158+50.00	577.29	± 565.10
158+88.00	575.77	± 565.10
159+17.00	574.94	± 565.10
159+31.00	574.81	± 565.10
159+46.00	574.86	± 565.10
159+75.00	575.54	± 565.10
160+02.00	576.79	± 565.10
160+30.00	578.19	± 565.10
160+30.00	579.86	571.00
160+40.00	580.68	572.00
160+50.00	581.50	573.00
160+70.00	581.50	574.00
161+00.00	581.50	575.00
161+30.00	581.50	575.00

• ESTIMATED BASED ON ESTIMATED TOP OF ROCK. THE ACTUAL ELEVATIONS MAY DIFFER ALONG WALL AND CORRESPONDING ADJUSTMENTS SHALL BE MADE

NOTES

- SEE SHEET 6 OF 6 FOR 1 1/2" Ø STEEL RAILING DETAILS
- WEEP HOLES SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS
- A DOUBLE LAYER OF 12"X12" NONWOVEN GEOTEXTILE FABRIC SHALL BE CENTERED OVER THE DRAIN HOLE. THE PERIMETER OF THE FABRIC SHALL BE SEALED TO THE CONCRETE WITH MASTIC.
- NONWOVEN GEOTEXTILE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1080.01 OF THE STANDARD SPECIFICATIONS. THE MINIMUM WEIGHT OF THE FABRIC SHALL BE 6 OUNCES PER SQUARE YARD. THE COST SHALL BE INCLUDED IN CONCRETE STRUCTURES (RETAINING WALL)



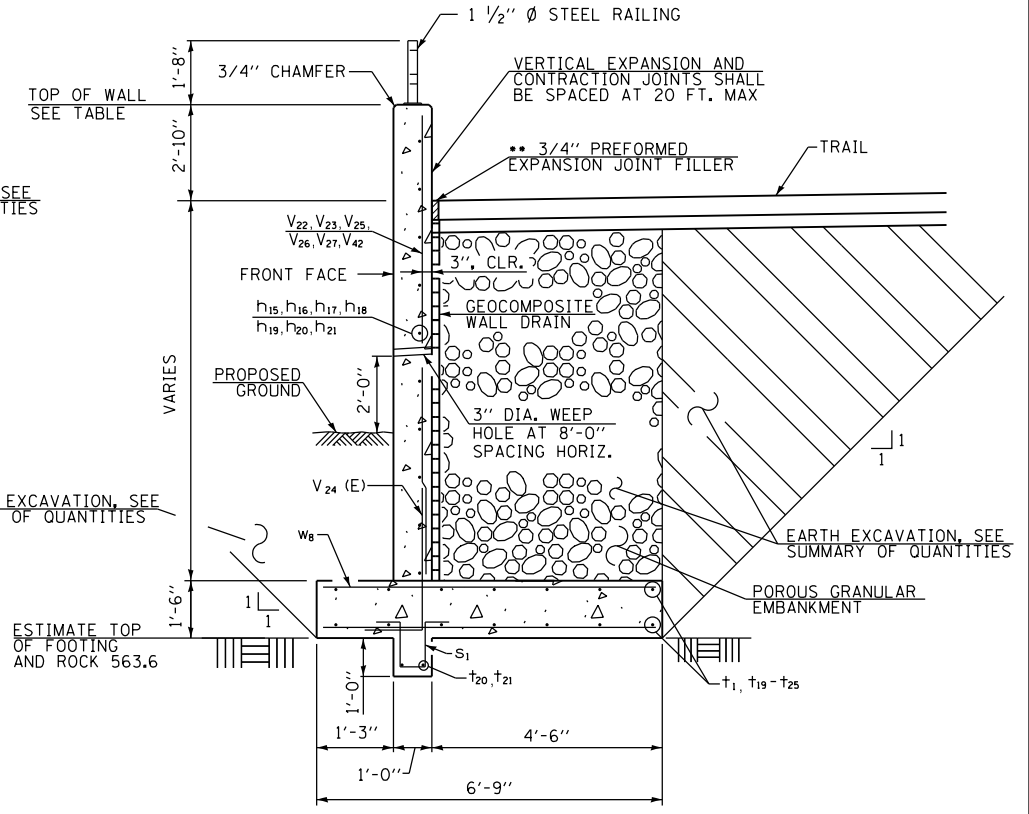
REINFORCED CONCRETE WALL SECTION

LOOKING UPSTATION
STATION 158+23.00 TO 158+50.00

THE MINIMUM ALLOWABLE SOIL BEARING PRESSURE BELOW THE FOOTING SHALL BE 2,000 PSF

•• INCLUDED IN THE COST OF CONCRETE STRUCTURES (RETAINING WALL)

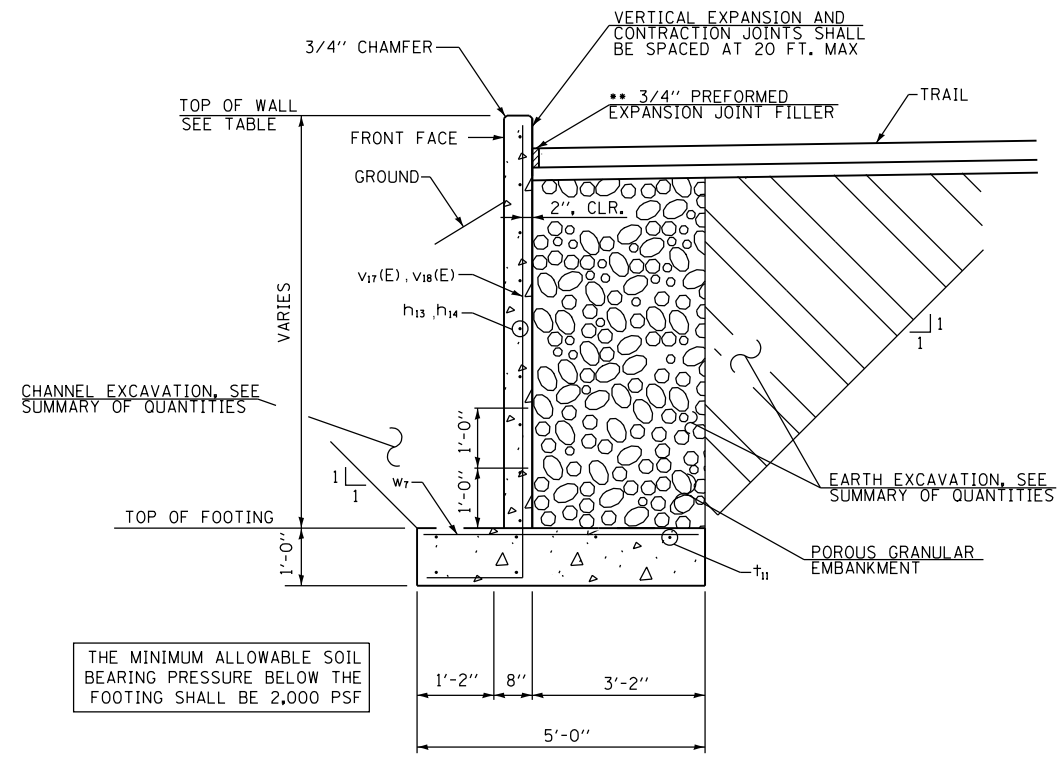
1 1/2" Ø SCH. 80 STEEL RAILING SHALL BE PAINTED



REINFORCED CONCRETE WALL SECTION

LOOKING UPSTATION
STATION 158+50.00 TO 160+30.00

•• INCLUDED IN THE COST OF CONCRETE STRUCTURES (RETAINING WALL)

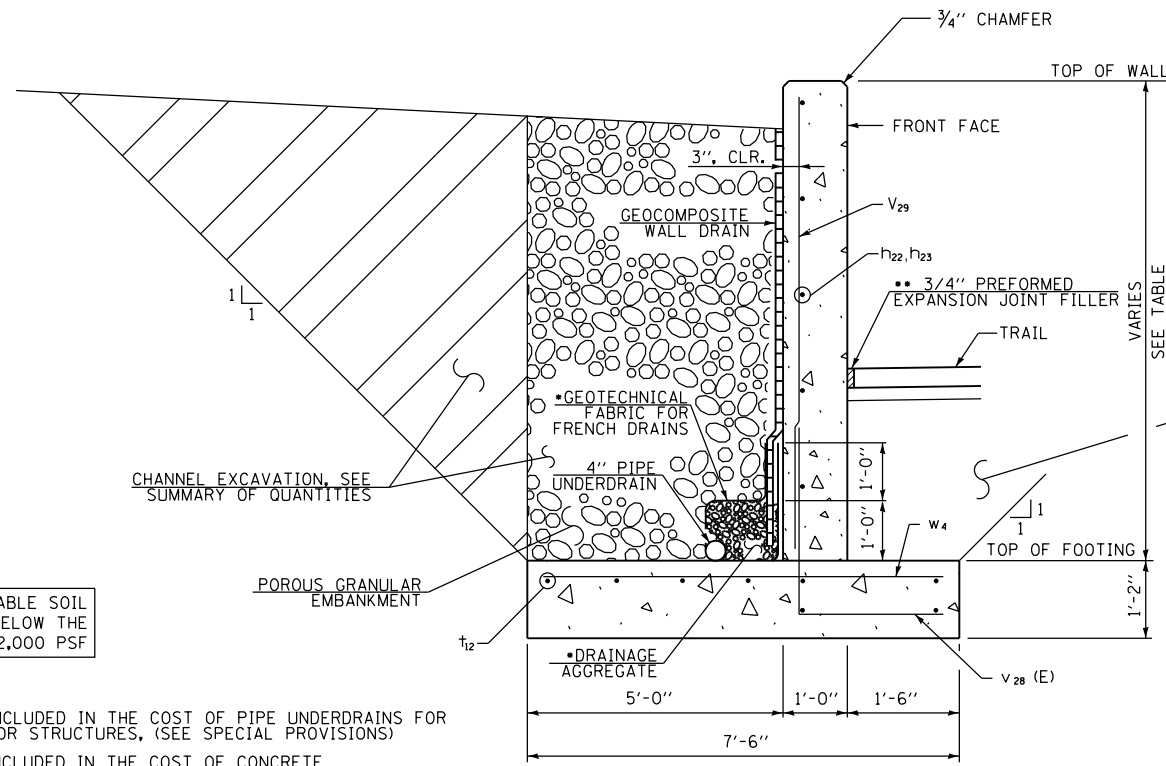


REINFORCED CONCRETE WALL SECTION

LOOKING UPSTATION
STATION 158+05.00 TO 158+23.00

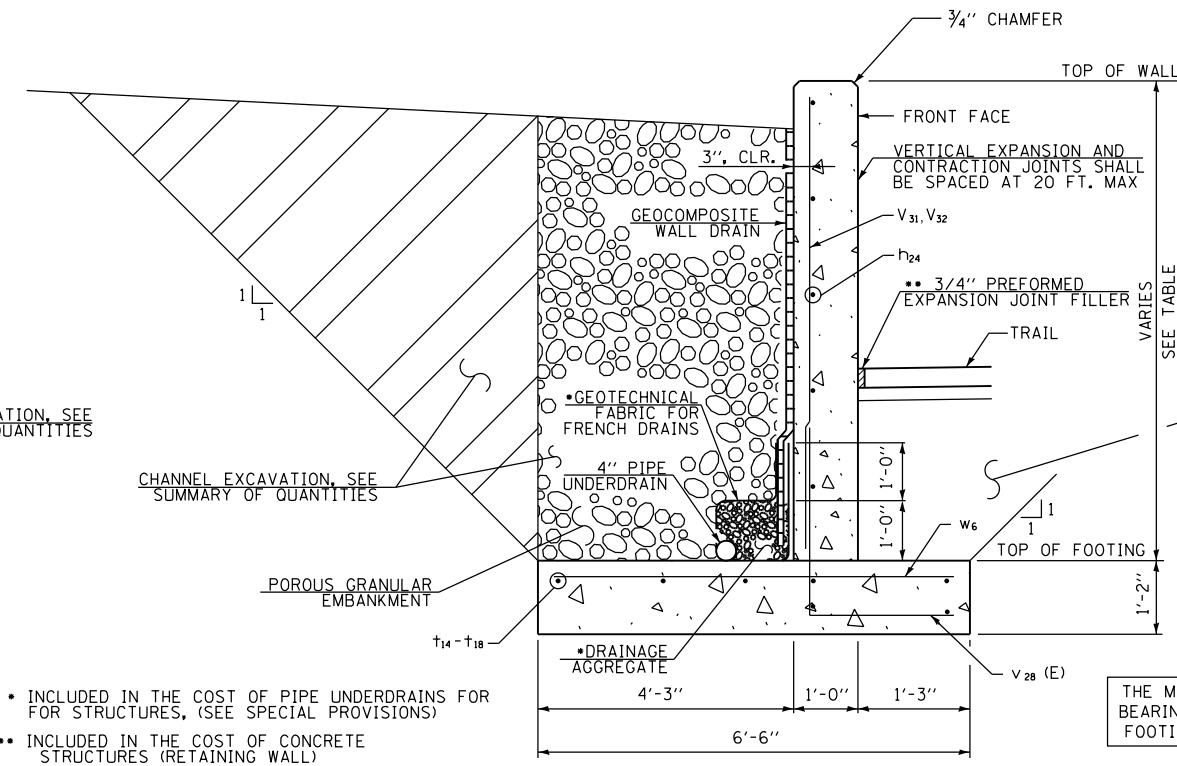
THE MINIMUM ALLOWABLE SOIL BEARING PRESSURE BELOW THE FOOTING SHALL BE 2,000 PSF

FILE NAME = D:\158\158055\05\Plans\Current\1\DOT - Retaining Wall Location 3.dgn



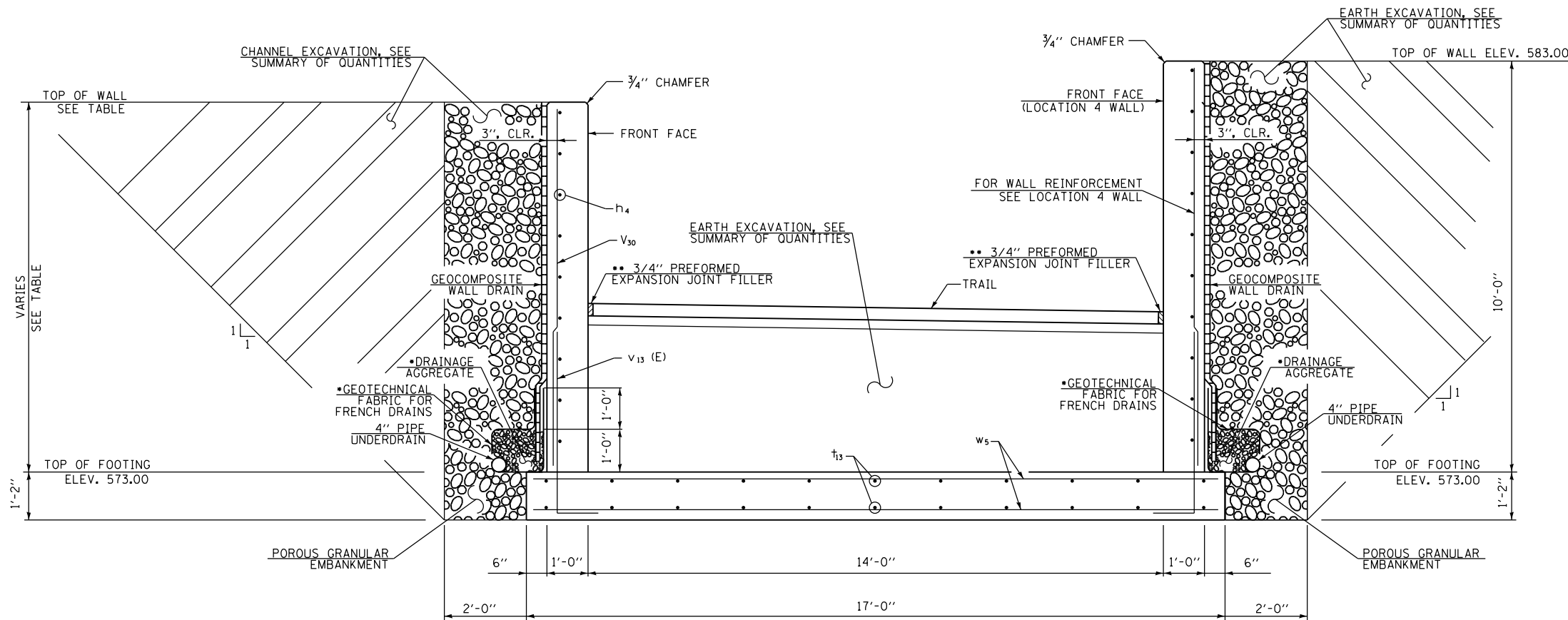
REINFORCED CONCRETE WALL SECTION

LOOKING UPSTATION
STATION 160+30.00 TO 160+50.00



REINFORCED CONCRETE WALL SECTION

LOOKING UPSTATION
STATION 160+70.00 TO 161+30.00



REINFORCED CONCRETE WALL SECTION

LOOKING UPSTATION
STATION 160+50.00 TO 160+70.00

- INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES, (SEE SPECIAL PROVISIONS)
- INCLUDED IN THE COST OF CONCRETE STRUCTURES (RETAINING WALL)

(Sheet 3 of 6)

THE MINIMUM ALLOWABLE SOIL BEARING PRESSURE BELOW THE FOOTING SHALL BE 2,000 PSF

- INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR STRUCTURES, (SEE SPECIAL PROVISIONS)
- INCLUDED IN THE COST OF CONCRETE STRUCTURES (RETAINING WALL)

THE MINIMUM ALLOWABLE SOIL BEARING PRESSURE BELOW THE FOOTING SHALL BE 2,000 PSF

FILE NAME = D:\15\160957\05\Plans\Current\1001 - Retaining Wall Location 3.dgn

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-2670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
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PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

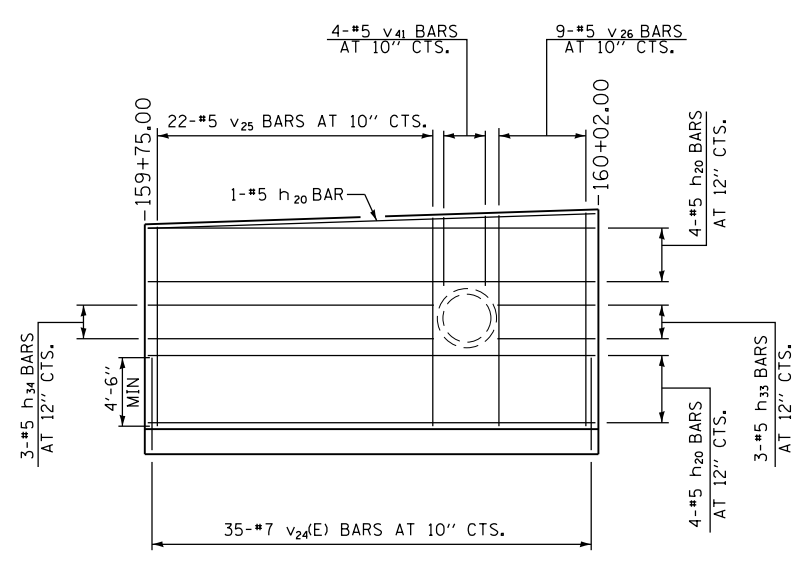
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE RETAINING WALL DETAILS
LOCATION 3**

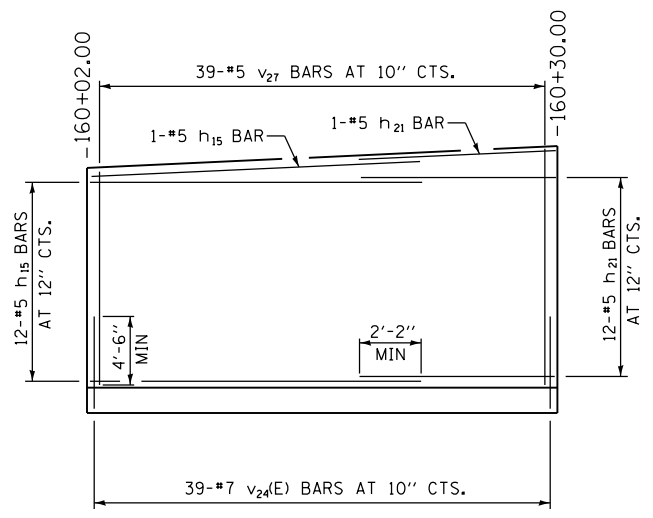
SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	63
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

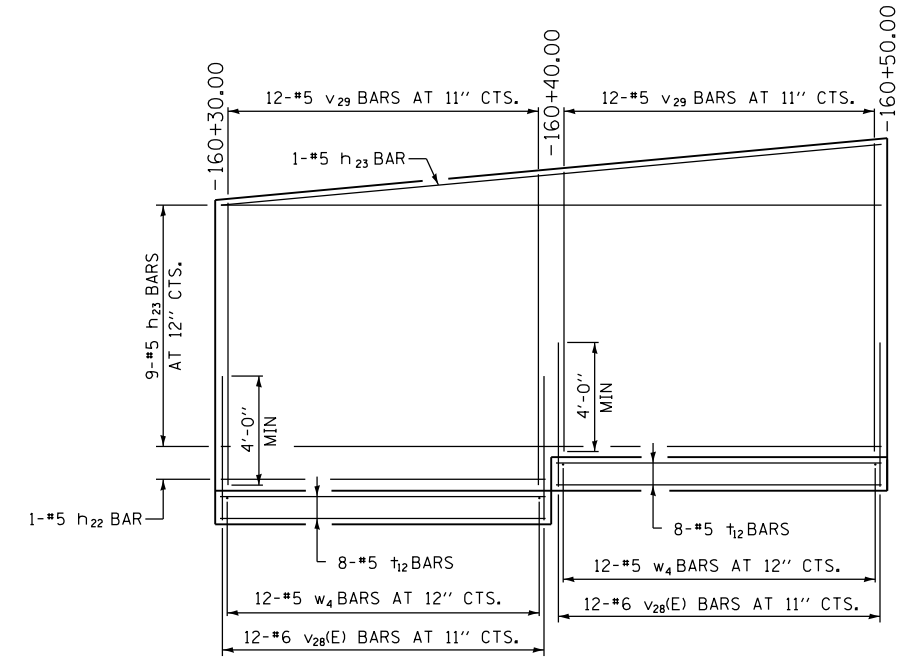
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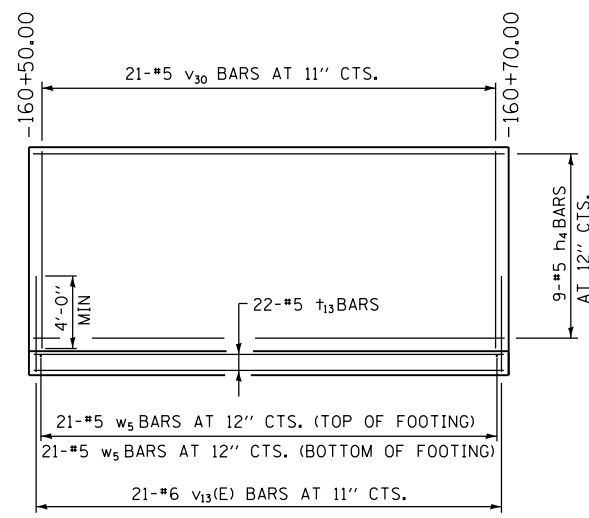
WALL REINFORCEMENT LAYOUT
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)
STA. 159+75.00 TO 160+02.00



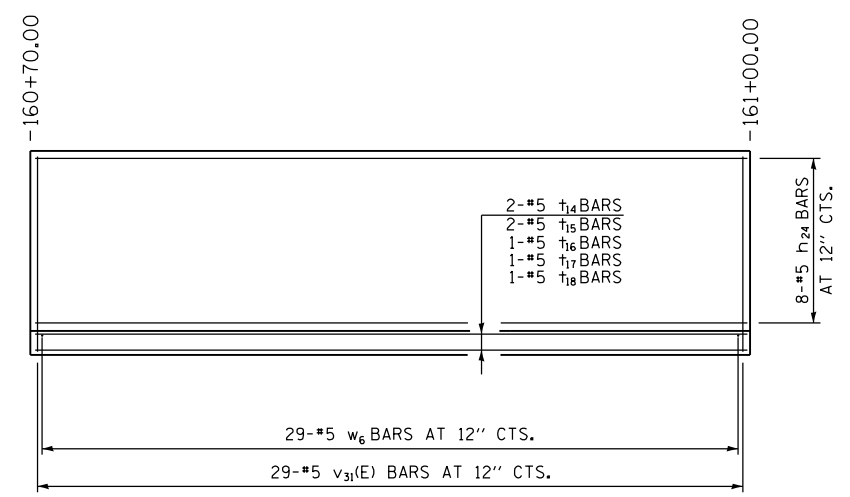
WALL REINFORCEMENT LAYOUT
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)
STA. 160+02.00 TO 160+30.00



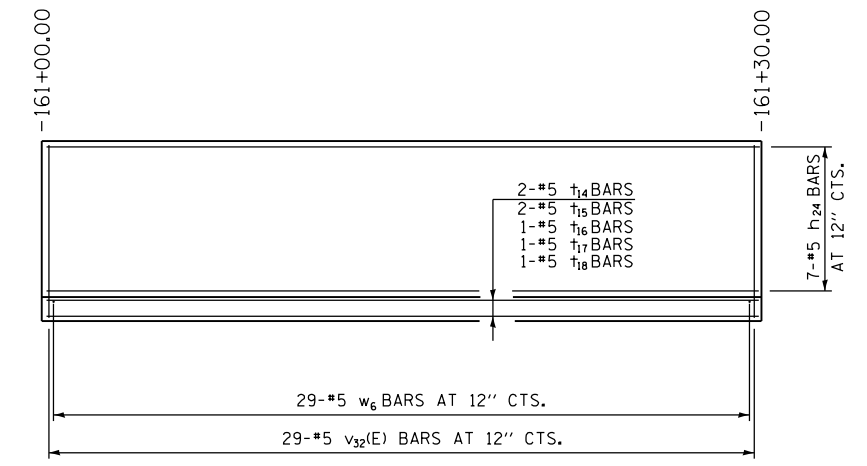
REINFORCEMENT LAYOUT
(LOOKING UNFOLDED ALONG FRONT FACE OF WALL)
STA. 160+30.00 TO 160+50.00



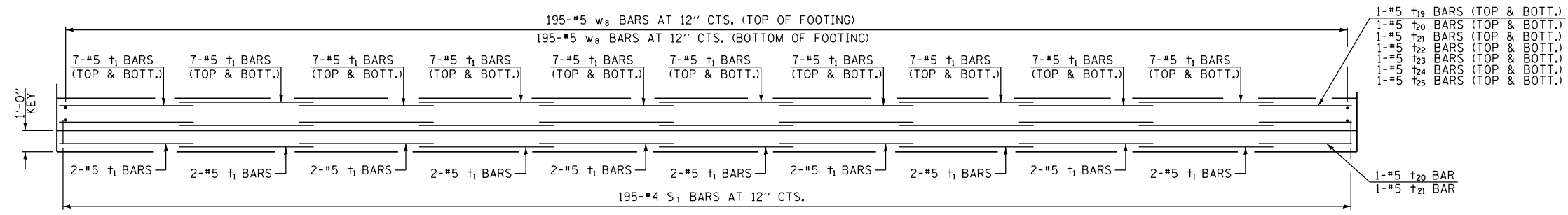
REINFORCEMENT LAYOUT
(LOOKING UNFOLDED ALONG FRONT FACE OF WALL)
STA. 160+50.00 TO 160+70.00



REINFORCEMENT LAYOUT
(LOOKING UNFOLDED ALONG FRONT FACE OF WALL)
STA. 160+70.00 TO 161+00.00



REINFORCEMENT LAYOUT
(LOOKING UNFOLDED ALONG FRONT FACE OF WALL)
STA. 161+00.00 TO 161+30.00



FOOTING REINFORCEMENT LAYOUT
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)
STA. 158+50.00 TO 160+30.00

(Sheet 5 of 6)



USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE RETAINING WALL DETAILS
LOCATION 3

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

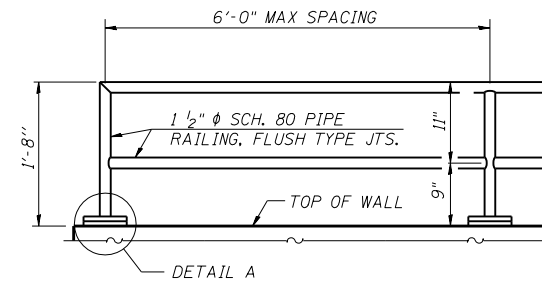
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	65
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h4	9	#5	18'-9"	=====
h12	10	#4	26'-8"	=====
h13	2	#4	8'-8"	=====
h14	7	#4	17'-8"	=====
h15	36	#5	20'-0"	=====
h16	12	#5	21'-0"	=====
h17	11	#5	28'-8"	=====
h18	11	#5	30'-3"	=====
h19	11	#5	14'-2"	=====
h20	9	#5	28'-3"	=====
h21	13	#5	13'-6"	=====
h22	1	#5	9'-8"	=====
h23	10	#5	19'-8"	=====
h24	15	#5	27'-3"	=====
h33	3	#5	5'-8"	=====
h34	3	#5	17'-0"	=====
S1	195	#4	4'-0"	=====
t1	160	#5	20'-0"	=====
t11	33	#5	8'-8"	=====
t12	16	#5	9'-8"	=====
t13	22	#5	20'-8"	=====
t14	4	#5	27'-10"	=====
t15	4	#5	27'-3"	=====
t16	2	#5	26'-10"	=====
t17	2	#5	26'-5"	=====
t18	2	#5	26'-0"	=====
t19	2	#5	15'-2"	=====
t20	3	#5	14'-2"	=====
t21	3	#5	12'-6"	=====
t22	2	#5	11'-0"	=====
t23	2	#5	9'-5"	=====
t24	2	#5	7'-10"	=====
t25	2	#5	6'-3"	=====
v13(E)	21	#6	8'-0"	=====
v17(E)	10	#5	7'-4"	=====
v18(E)	10	#5	8'-1"	=====
v19	10	#5	8'-7"	=====
v20	10	#5	9'-3"	=====
v21	10	#5	9'-11"	=====
v22	24	#5	11'-4"	=====
v23	24	#5	10'-6"	=====
v24(E)	236	#7	8'-0"	=====
v25	58	#5	10'-0"	=====
v26	9	#5	11'-3"	=====
v27	39	#5	12'-5"	=====
v28(E)	54	#6	7'-2"	=====
v29	24	#5	9'-2"	=====
v30	21	#5	8'-2"	=====
v31(E)	29	#5	10'-3"	=====
v32(E)	29	#5	9'-3"	=====
v41	4	#5	4'-1"	=====
v42	78	#5	9'-6"	=====
w3	30	#4	5'-8"	=====
w4	24	#5	7'-2"	=====
w5	42	#5	9'-8"	=====
w6	58	#5	6'-2"	=====

BILL OF MATERIAL

W7	20	#4	4'-8"	=====
W8	390	#5	6'-5"	=====
CONCRETE STRUCTURES (RETAINING WALL)		CU. YD.	234.3	
ROCK EXCAVATION FOR STRUCTURES		CU. YD.	7	
REINFORCEMENT BARS, EPOXY COATED		POUND	5440	
REINFORCEMENT BARS		POUND	15850	
GEOCOMPOSITE WALL DRAIN		SQ. YD.	253	
PIPE UNDERDRAIN FOR STRUCTURES 4"		FOOT	95	
PIPE UNDERDRAINS 4" (SPECIAL)		FOOT	28	
POROUS GRANULAR EMBANKMENT		CU. YD.	373	
BICYCLE RAILING, SPECIAL		FOOT	219	

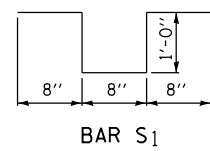
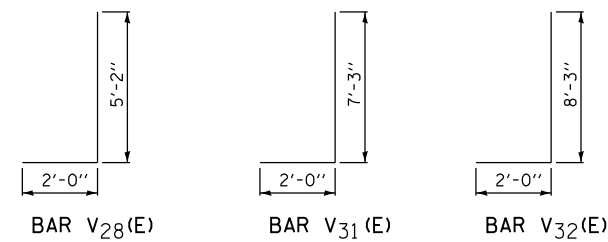
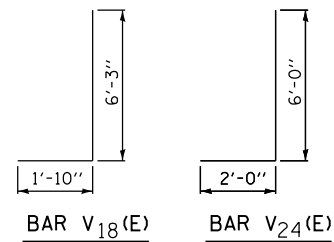
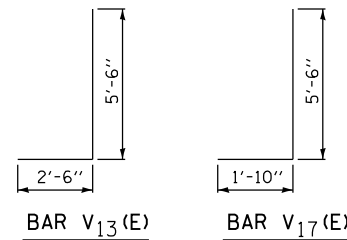


RAILING ELEVATION

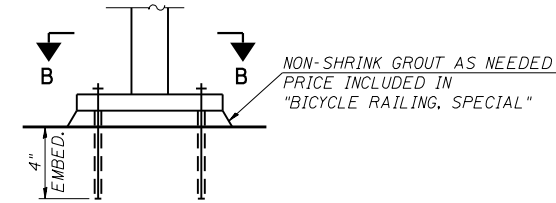
GENERAL NOTES

- NO FIELD WELDING IS PERMITTED EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
- ALL STEEL RAIL ELEMENTS SHALL BE PAINTED IN ACCORDANCE WITH SECTION 506 OF THE STANDARD SPECIFICATIONS
- ALL STEEL RAIL ELEMENTS SHALL BE PAID FOR AS BICYCLE RAILING, SPECIAL

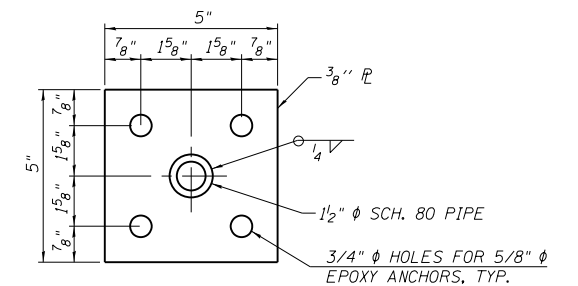
1 1/2" Ø SCH. 80 STEEL RAILING SHALL BE PAINTED



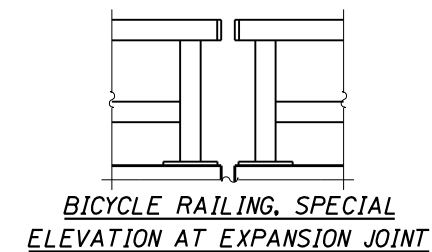
- FIELD CUT REINFORCEMENT BARS AS NEEDED
- THE QUANTITIES AND DETAILING ARE BASED ON THE ESTIMATED ROCK ELEVATION SHOWN ON THE PLANS. THE ACTUAL ELEVATIONS MAY DIFFER AND CORRESPONDING ADJUSTMENTS SHALL BE MADE TO THE REINFORCEMENT QUANTITIES.



DETAIL A



SECTION B-B



FILE NAME = D:\1\Files\1509257\05\Plans\Current\1\DOT - Retaining Wall Location 3.dgn

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Engineers • Architects • Surveyors
616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223-5670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE RETAINING WALL DETAILS
LOCATION 3

SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	66
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

(Sheet 6 of 6)

FILE NAME = D:\Projects\160955\05\Plans\Current\1\DOT - Retaining Wall Location.dgn

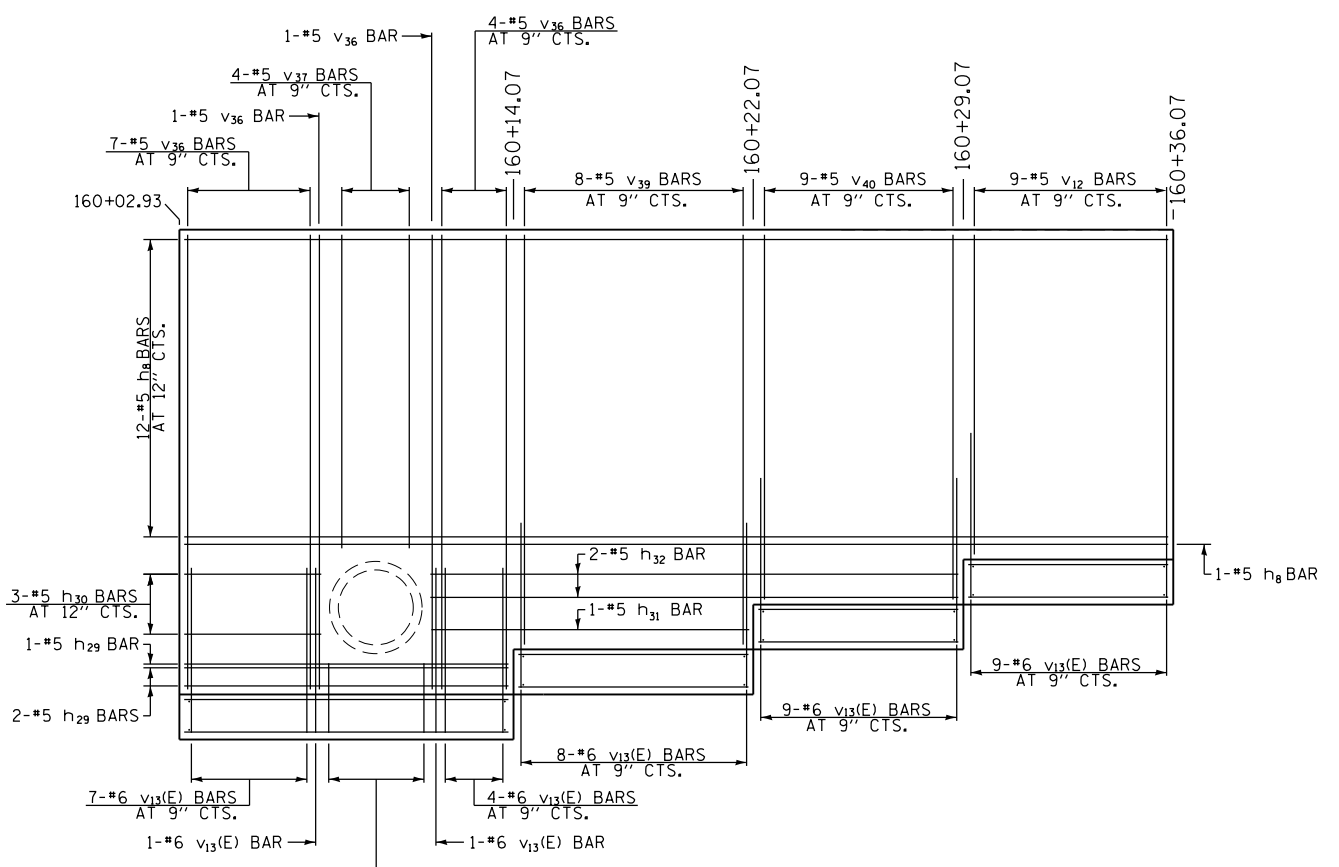
GENERAL NOTES

NO FIELD WELDING IS PERMITTED EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS.
 REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 REINFORCEMENT BARS SHALL BE FIELD BENDED, AS NEEDED.

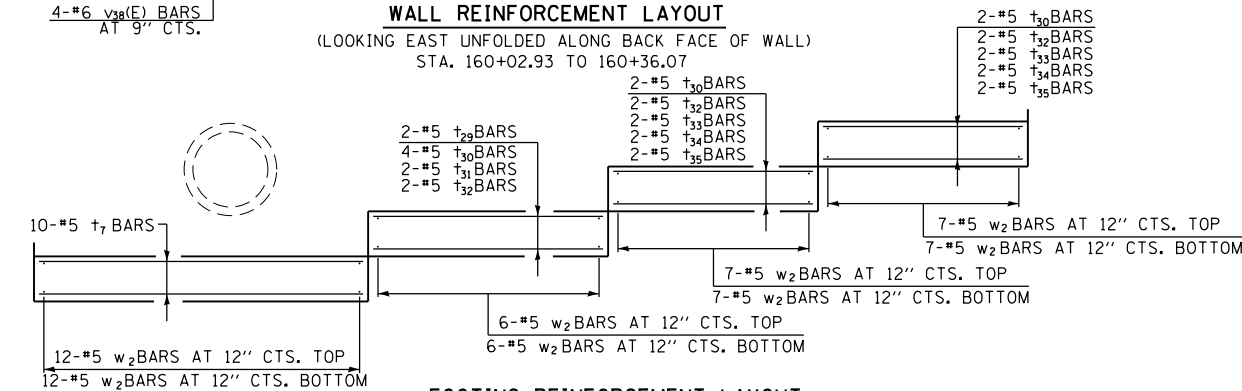
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h8	13	#5	28'-0"	_____
h9	11	#5	13'-7"	_____
h10	11	#5	20'-4"	_____
h11	3	#4	15'-10"	_____
h12	5	#4	26'-8"	_____
h29	3	#5	10'-10"	_____
h30	3	#5	4'-6"	_____
h31	1	#5	10'-6"	_____
h32	2	#5	17'-6"	_____
t7	10	#5	10'-8"	_____
t8	10	#5	13'-7"	_____
t9	6	#5	15'-10"	_____
t10	6	#5	10'-5"	_____
t29	2	#5	4'-0"	_____
t30	8	#5	4'-4"	_____
t31	2	#5	4'-8"	_____
t32	6	#5	5'-0"	_____
t33	4	#5	5'-4"	_____
t34	4	#5	5'-8"	_____
t35	4	#5	6'-5"	_____
v12	9	#5	10'-8"	_____
v13(E)	86	#6	8'-0"	_____
v14	47	#5	9'-8"	_____
v15(E)	17	#5	10'-0"	_____
v16(E)	12	#5	7'-6"	_____
v36	13	#5	15'-2"	_____
v37	4	#5	10'-6"	_____
v38(E)	4	#6	4'-9"	_____
v39	8	#5	13'-8"	_____
v40	9	#5	12'-2"	_____
w2	153	#5	8'-2"	_____
w3	29	#4	5'-8"	_____
* CONCRETE STRUCTURES (RETAINING WALL)			CU. YD.	59.4
REINFORCEMENT BARS, EPOXY COATED			POUND	1340
* REINFORCEMENT BARS			POUND	4030
GEOCOMPOSITE WALL DRAIN			SQ. YD.	83
PIPE UNDERDRAIN FOR STRUCTURES 4"			FOOT	90
POROUS GRANULAR EMBANKMENT			CU. YD.	124

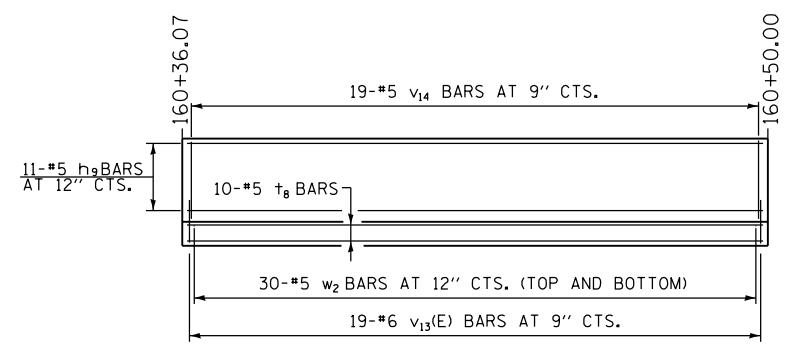
* QUANTITIES ASSOCIATED WITH THE FOOTING BETWEEN STATIONS 160+50.00 TO 160+70.00 ARE INCLUDED IN LOCATION 3 RETAINING WALL



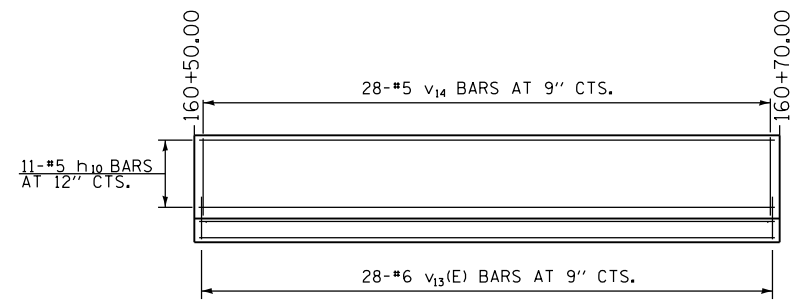
WALL REINFORCEMENT LAYOUT
 (LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)
 STA. 160+02.93 TO 160+36.07



FOOTING REINFORCEMENT LAYOUT
 (LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)
 STA. 160+02.93 TO 160+36.07

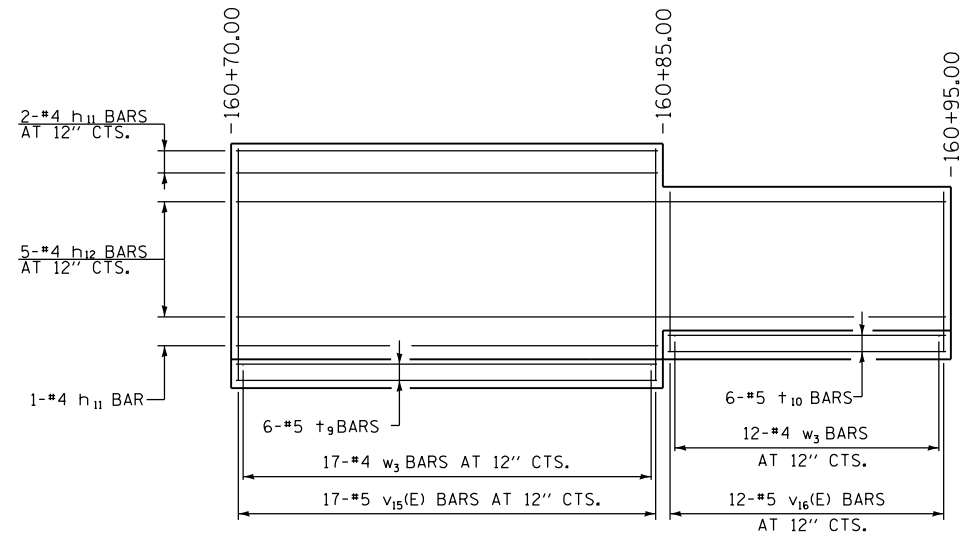


REINFORCEMENT LAYOUT
 (LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)
 STA. 160+36.07 TO 160+50.00

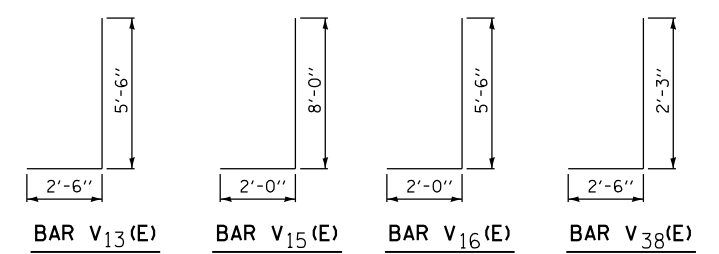


* COST OF REINFORCEMENT AND CONCRETE STRUCTURES ASSOCIATED WITH THE FOOTING IS INCLUDED IN THE LOCATION 3 RETAINING WALL QUANTITIES

REINFORCEMENT LAYOUT
 (LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)
 STA. 160+50.00 TO 160+70.00



REINFORCEMENT LAYOUT
 (LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)
 STA. 160+70.00 TO 160+95.00



(Sheet 2 of 2)

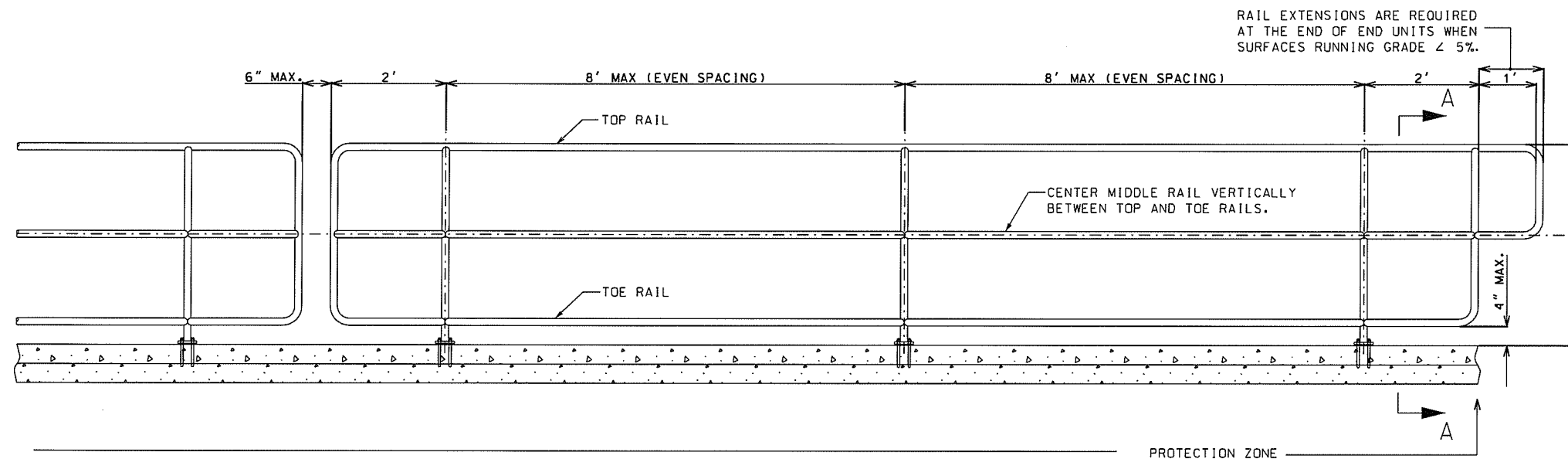
KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 616 N.24TH ST. QUINCY ILLINOIS 62301 217.223-2670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	USER NAME = ebb	DESIGNED -	REVISED -
	PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
	PLOT DATE = 10/5/2018	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

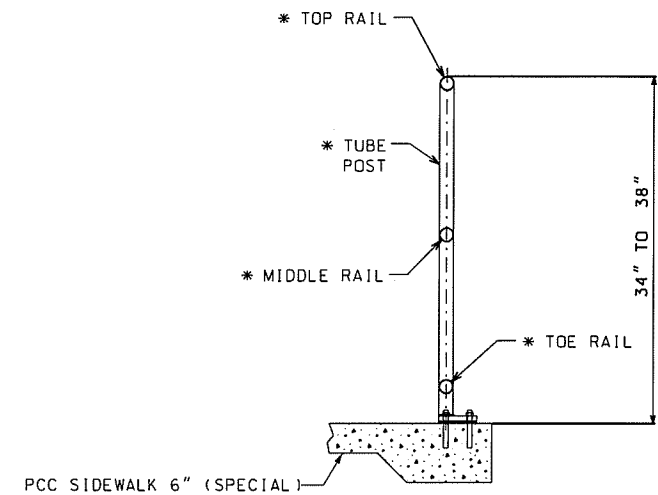
CONCRETE RETAINING WALL DETAILS
LOCATION 4

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	68
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

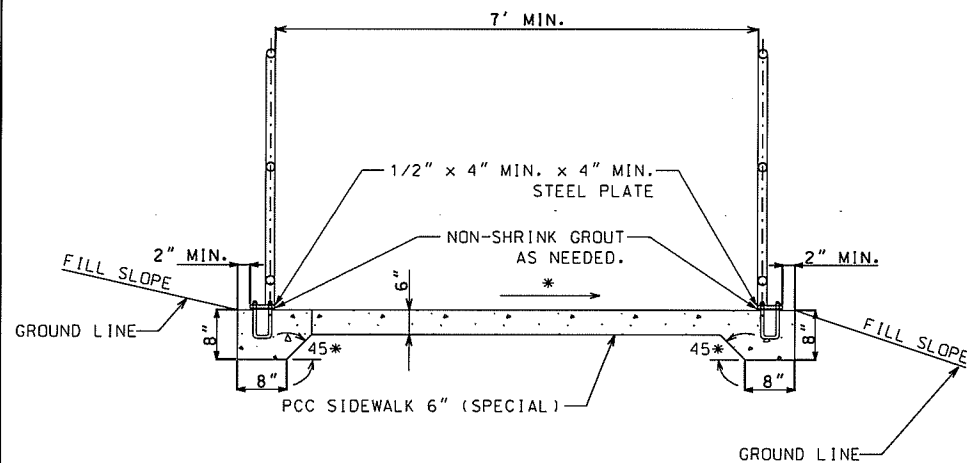


RAMP HANDRAILING



HANDRAILING

* 1 1/2" Ø SCH 80 STEEL POSTS AND RAILINGS. WELD AND GRIND ALL JOINTS SMOOTH.



RAMP (SECTION A-A)

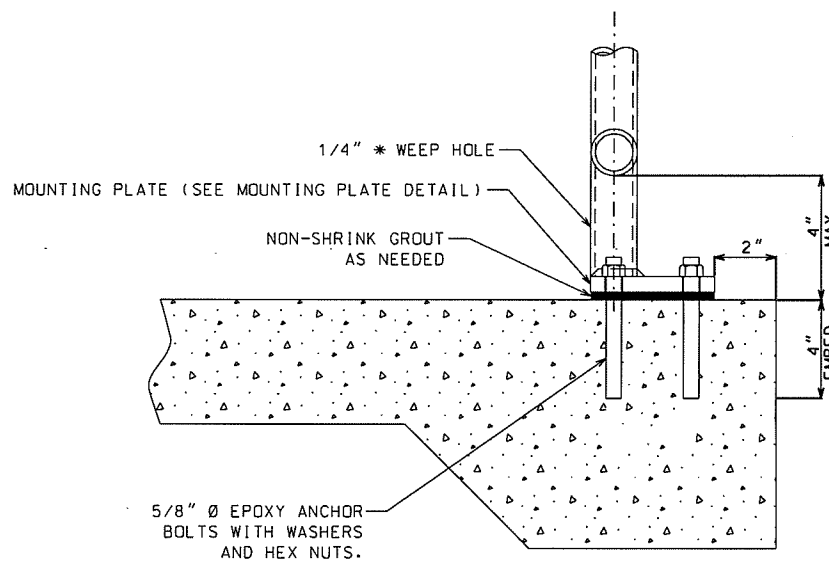
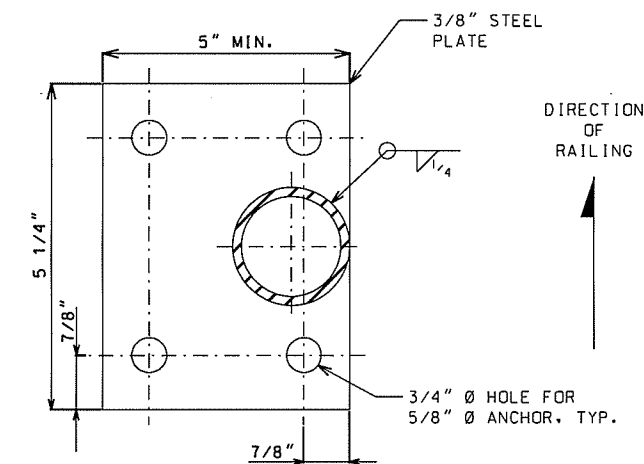


PLATE MOUNTING DETAIL



(ROUND POST)

MOUNTING PLATE DETAIL (PLAN VIEW)

GENERAL NOTES:

RAILINGS AND POSTS SHALL BE ROUND STEEL OF GOOD COMMERCIAL WELDABLE QUALITY.

STEEL RAILINGS AND POSTS SHALL BE PAINTED AFTER FABRICATION. ALL JOINTS SHALL BE CONTINUOUS WELDED AND GROUND SMOOTH.

METAL SAFETY RAIL MUST BE COMPLIANT WITH THE "AMERICAN'S WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)". EXCEPTIONS MUST BE APPROVED BY THE ENGINEER. ALL OTHER AREAS OF NON-COMPLIANCE SHALL BE REMOVED AND CORRECTED AT THE CONTRACTOR'S EXPENSE.

ALL POSTS SHALL HAVE A 1/4" WEEP HOLE IMMEDIATELY ABOVE THE MOUNTING PLATE.

WHEN INSTALLED THE POSTS SHALL BE PLUMB AND RAILINGS SHALL MATCH THE SLOPE OF THE RAMP.

FILE NAME = D:\AS\Files\16-P4003-04-BT\16-P4003-04-BT - MiscDetails.dgn

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 STATE OF ILLINOIS DESIGN FIRM NO. 164-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 48.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 10/11/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
 RAMP PIPE HANDRAIL SPECIAL DETAILS**

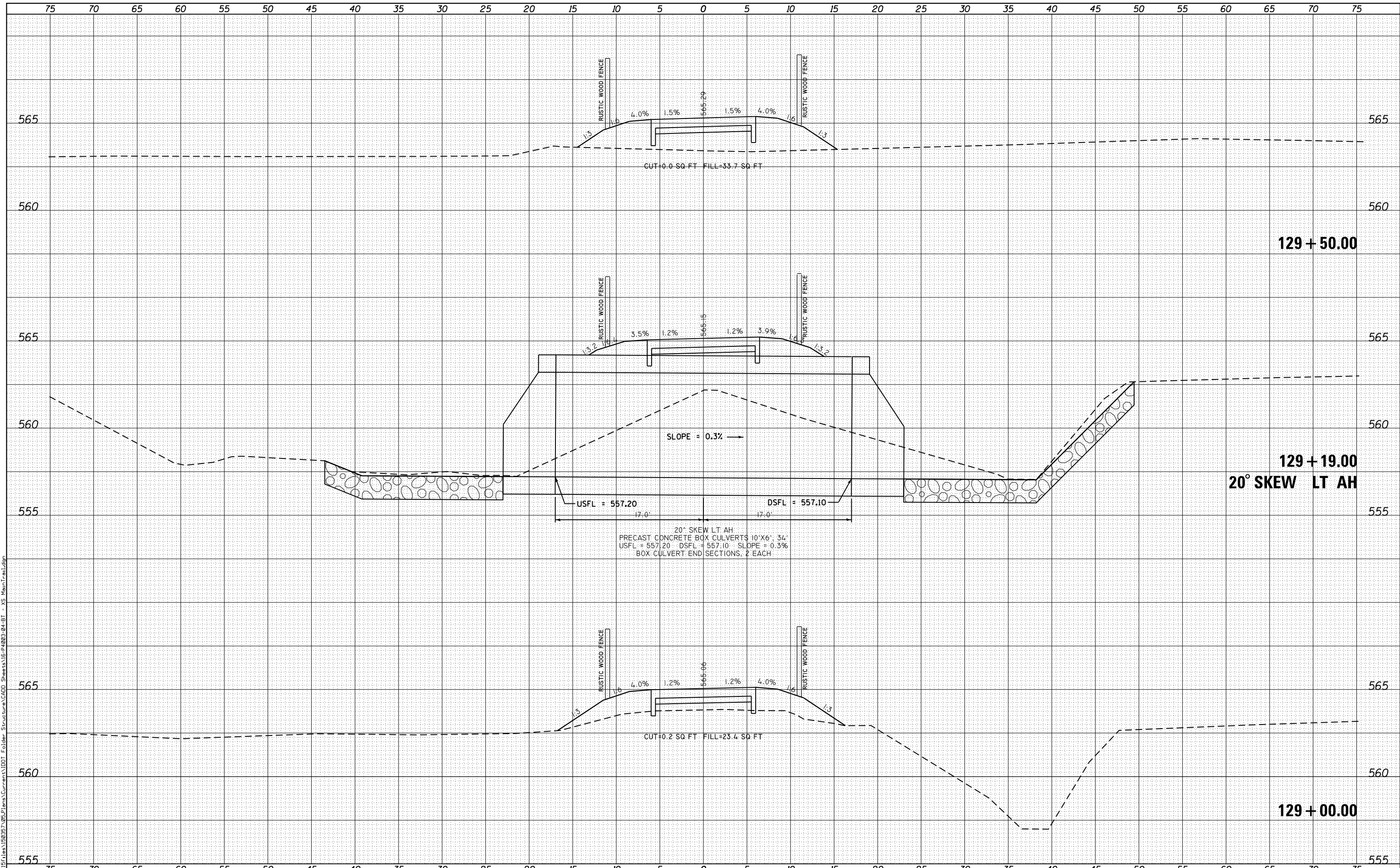
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	72
			CONTRACT NO. 93711	
[ILLINOIS] FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT\16003-04-BT - XS Main Trail.dwg



129 + 50.00

129 + 19.00
20° SKEW LT AH

129 + 00.00

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Engineers • Architects • Surveyors
616 NORTH ST. QUINCY, ILLINOIS 62301-217, 223-3670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 10/5/2018	CHECKED -	REVISD -
	DATE -	REVISD -

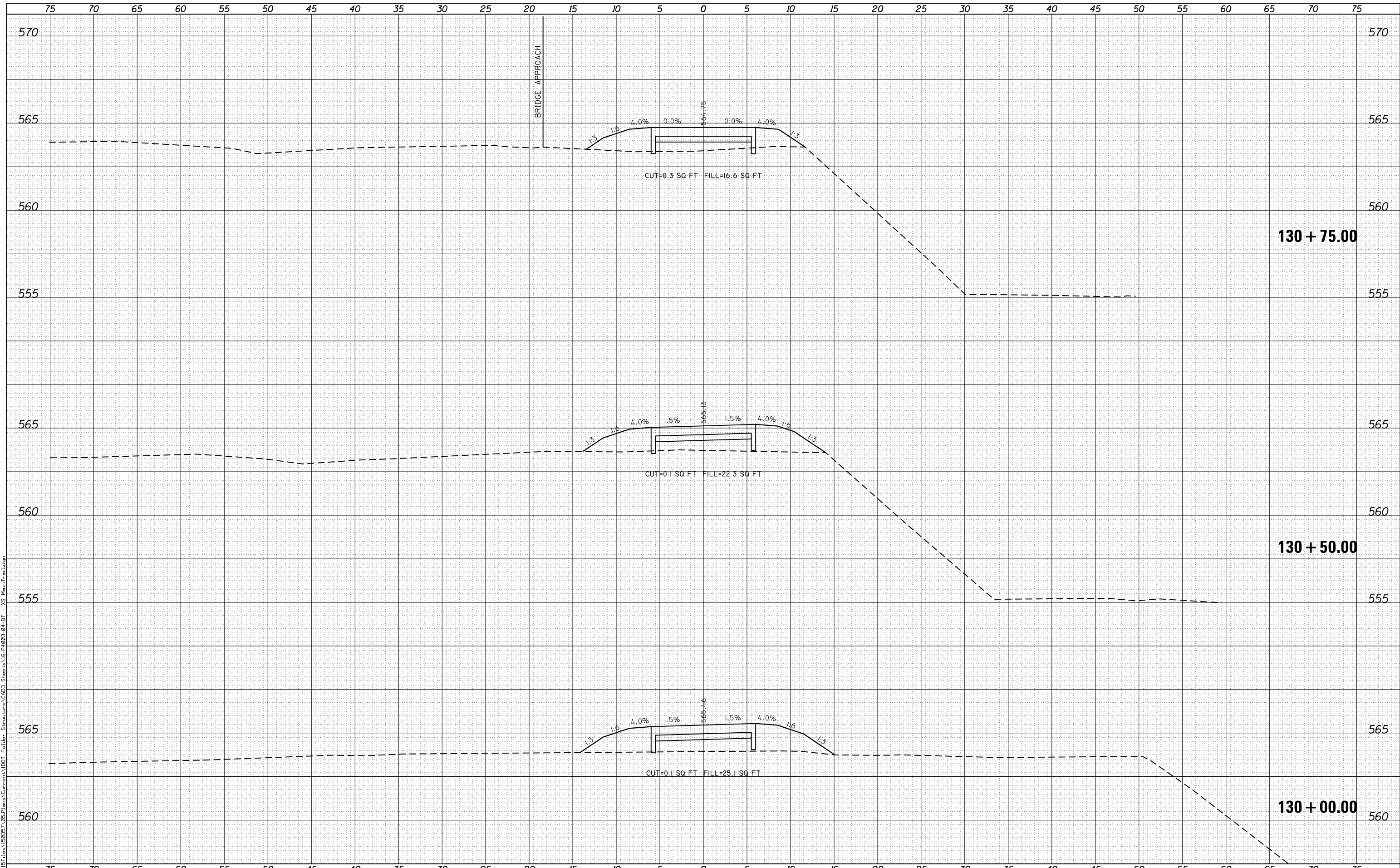
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST
SCALE: 1"=5'H
1"=2.5'V
SHEET 1 OF 37 SHEETS
STA. 129+00.00 TO STA. 129+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	75
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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 616 NORTH ST. QUINCY, ILLINOIS 62301 217.223.3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST**

SCALE: 1"=5'H
 1"=25.1'V

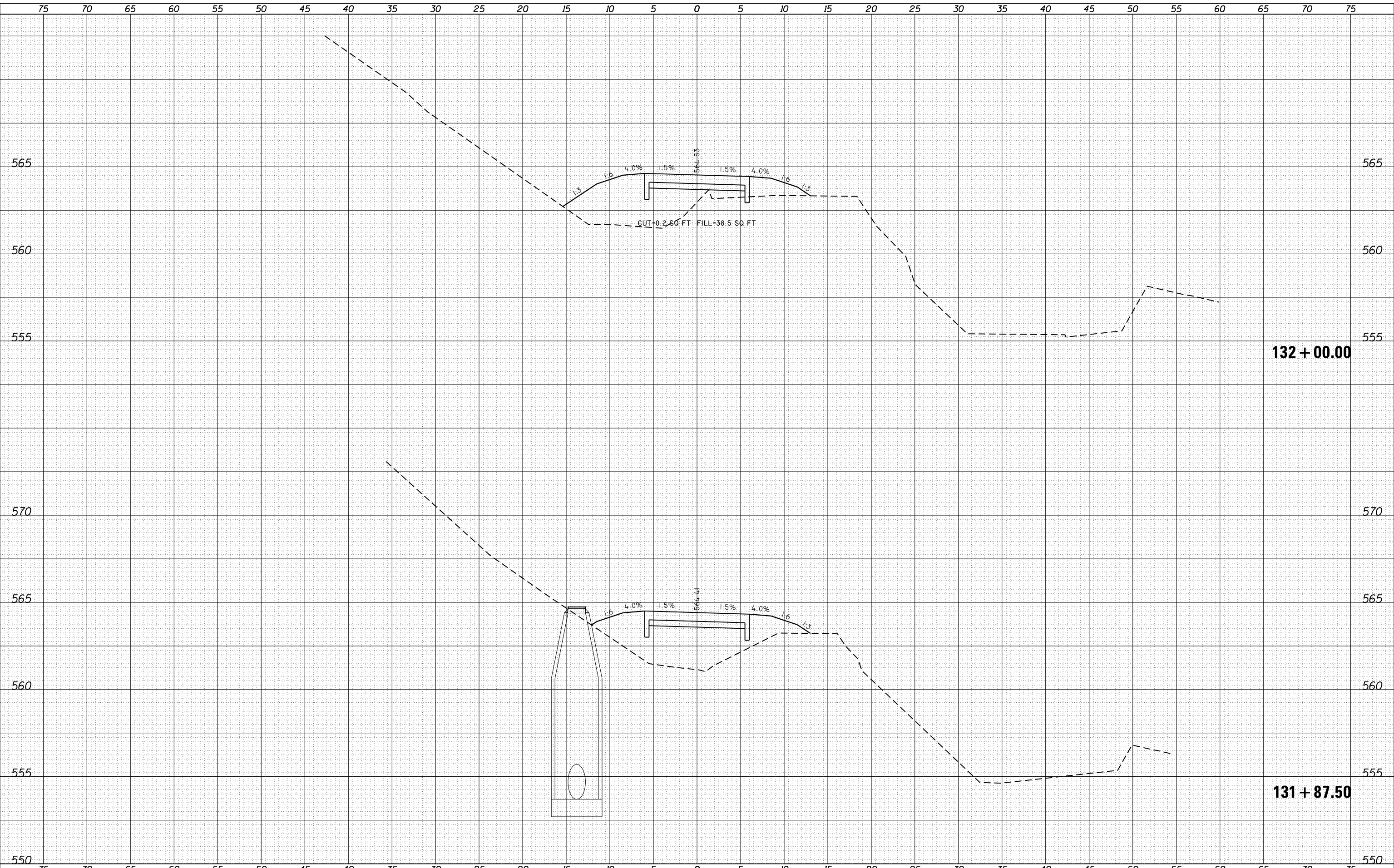
SHEET 2 OF 37 SHEETS STA. 130+00.00 TO STA. 130+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	76
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT - XS Main Trail.dgn



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST

SCALE: 1"=5'H
 1"=2.5'V

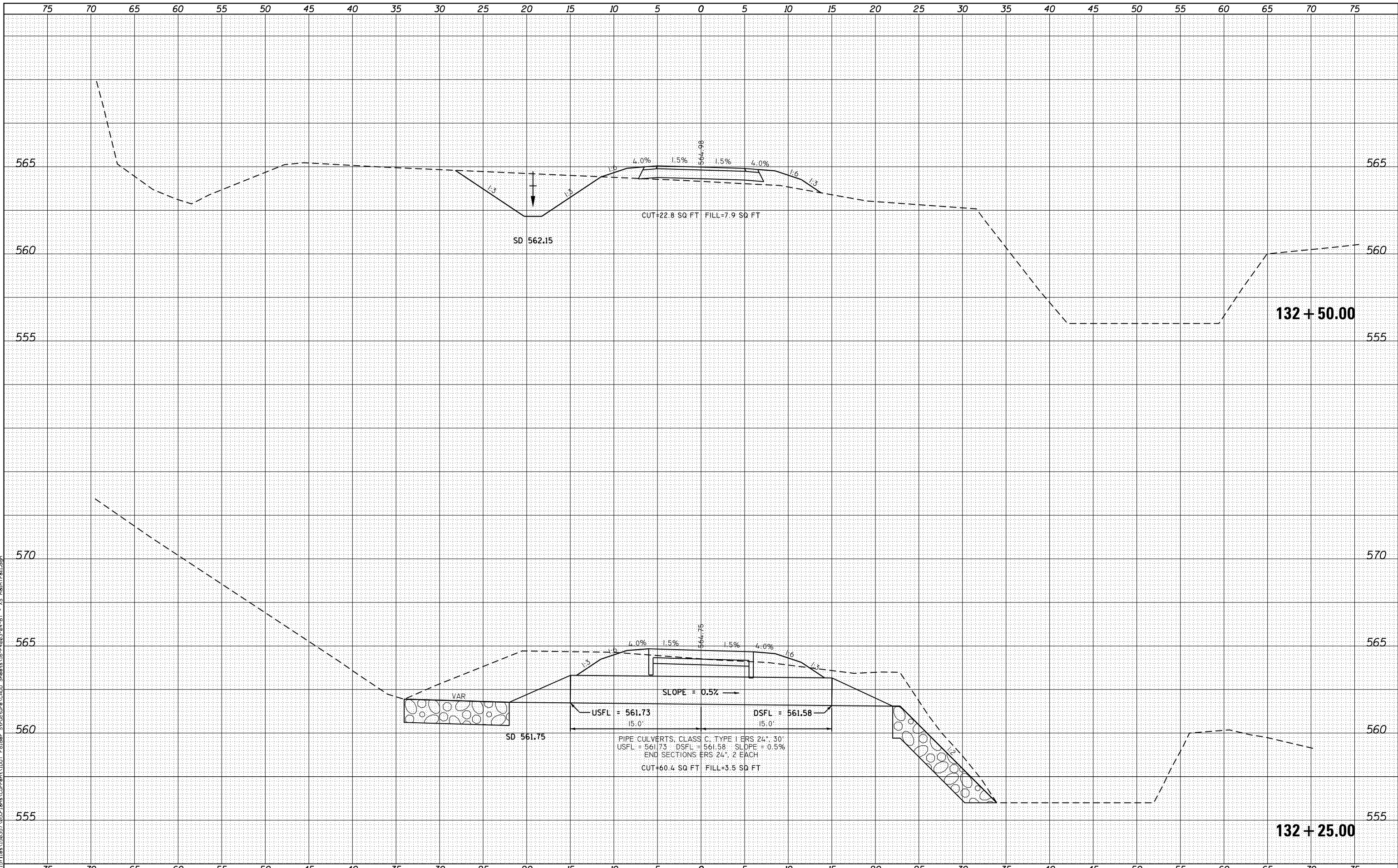
SHEET 4 OF 37 SHEETS STA. 131+87.50 TO STA. 132+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	78
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT\16003-04-BT - XS Main Trail.dgn



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 616 N. 24TH ST. QUINCY, ILLINOIS 62301-2172
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb
 PLOT SCALE = 10.0000' / in.
 PLOT DATE = 10/5/2018

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

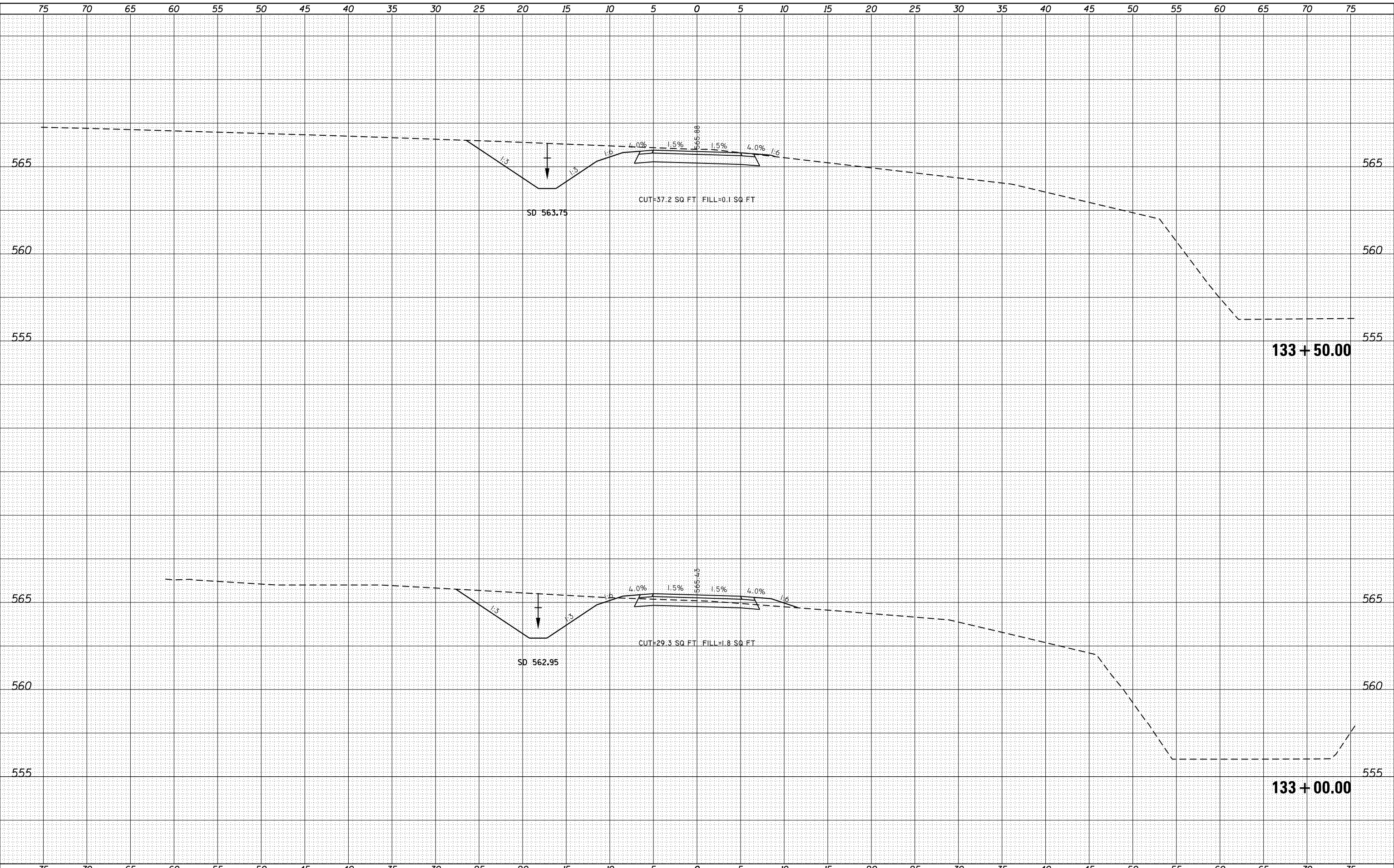
CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST
 SCALE: 1"=5'H
 1"=2.5'V
 SHEET 5 OF 37 SHEETS
 STA. 132+25.00 TO STA. 132+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	79
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT - XS Main Trail.dgn



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 616 NORTH ST. QUINCY, ILLINOIS 62421-2233-3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST

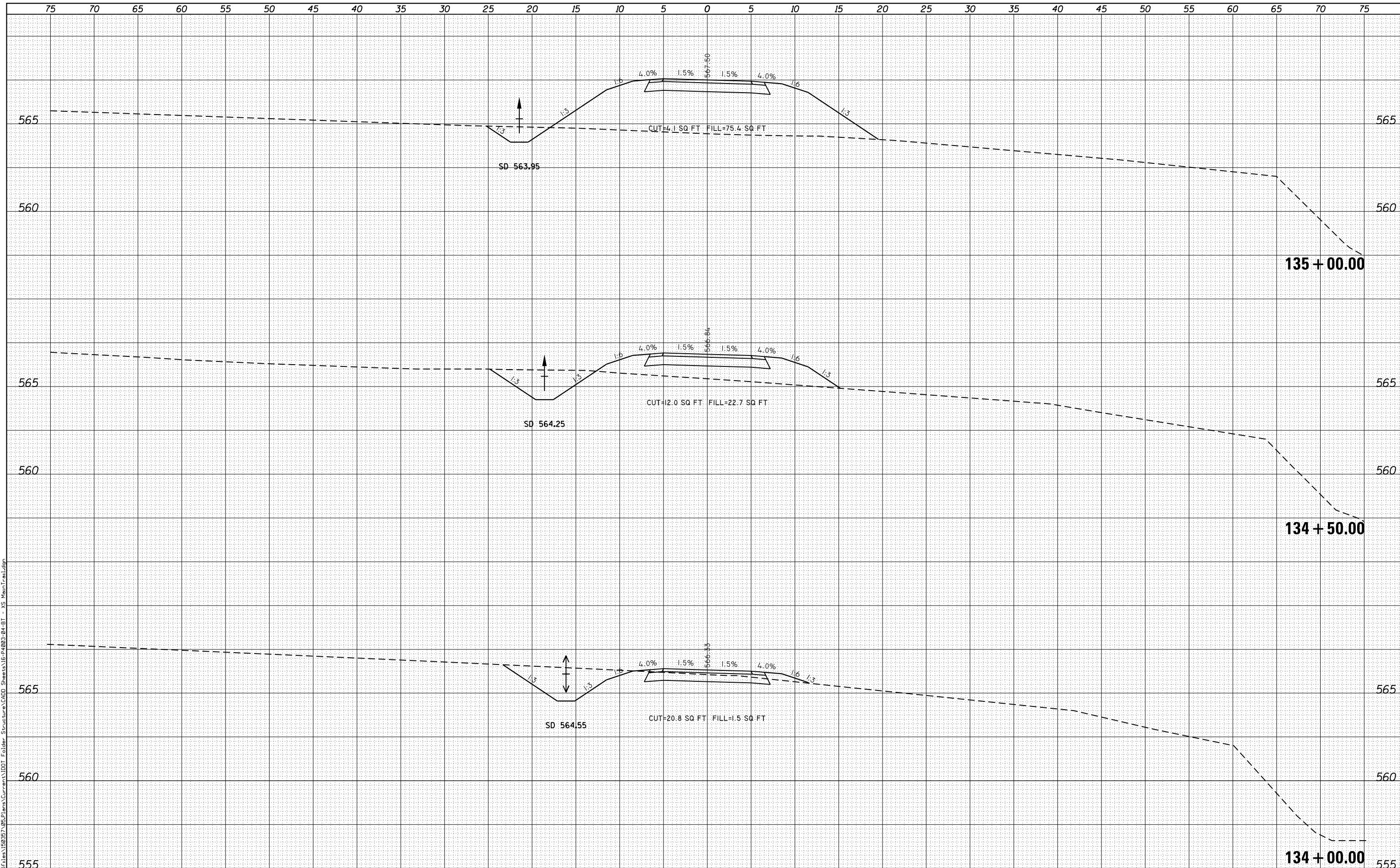
SCALE: 1"=5'H
 1"=2.5'V

SHEET 6 OF 37 SHEETS STA. 133+00.00 TO STA. 133+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	80
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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 Engineers • Architects • Surveyors
 616 NORTH ST. QUINCY, ILLINOIS 62301-217, 223-3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST**

SCALE: 1"=5'H
 1"=2.5'V

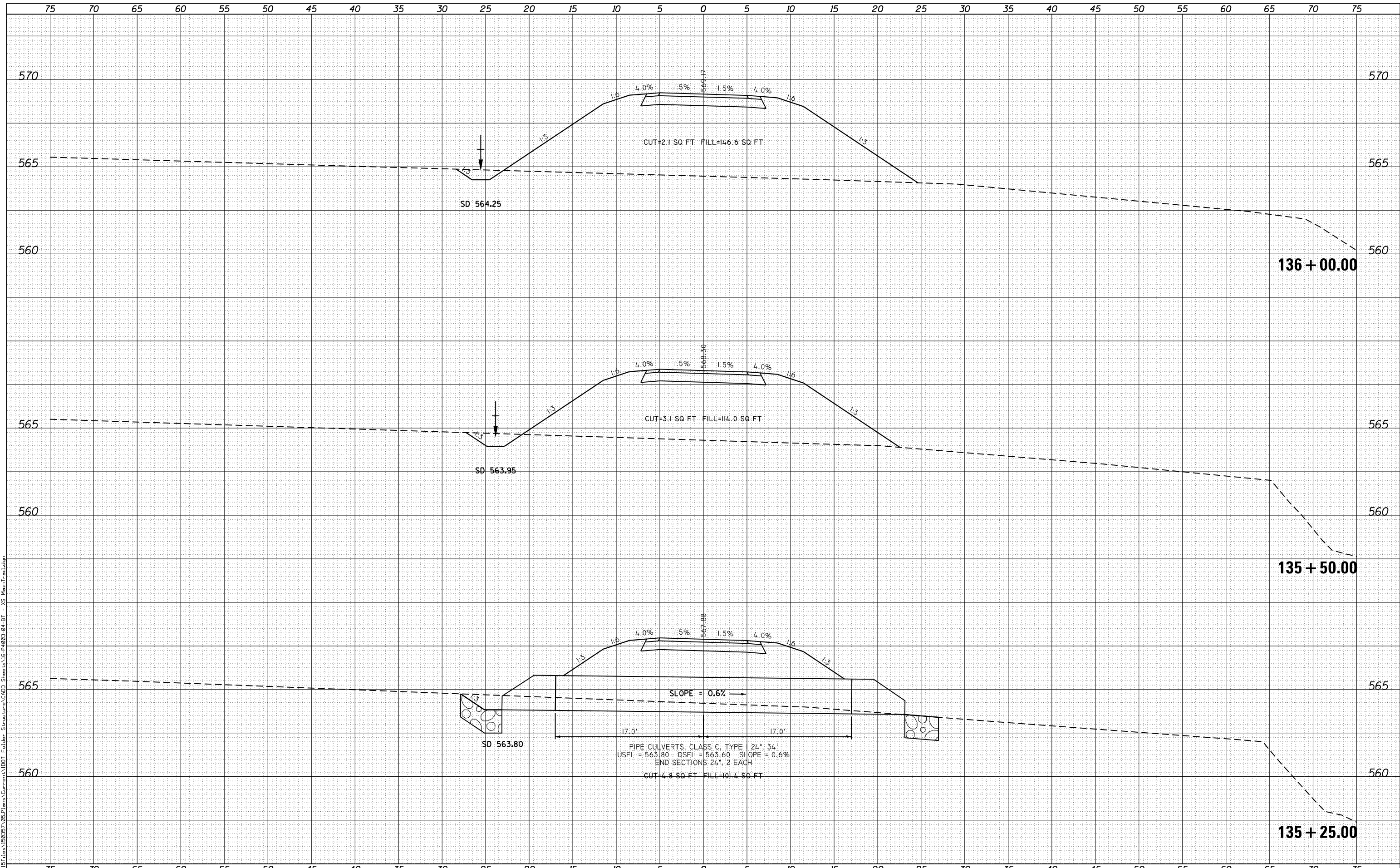
SHEET 7 OF 37 SHEETS STA. 134+00.00 TO STA. 135+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	81
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST**

SCALE: 1"=5'H
 1"=2.5'V

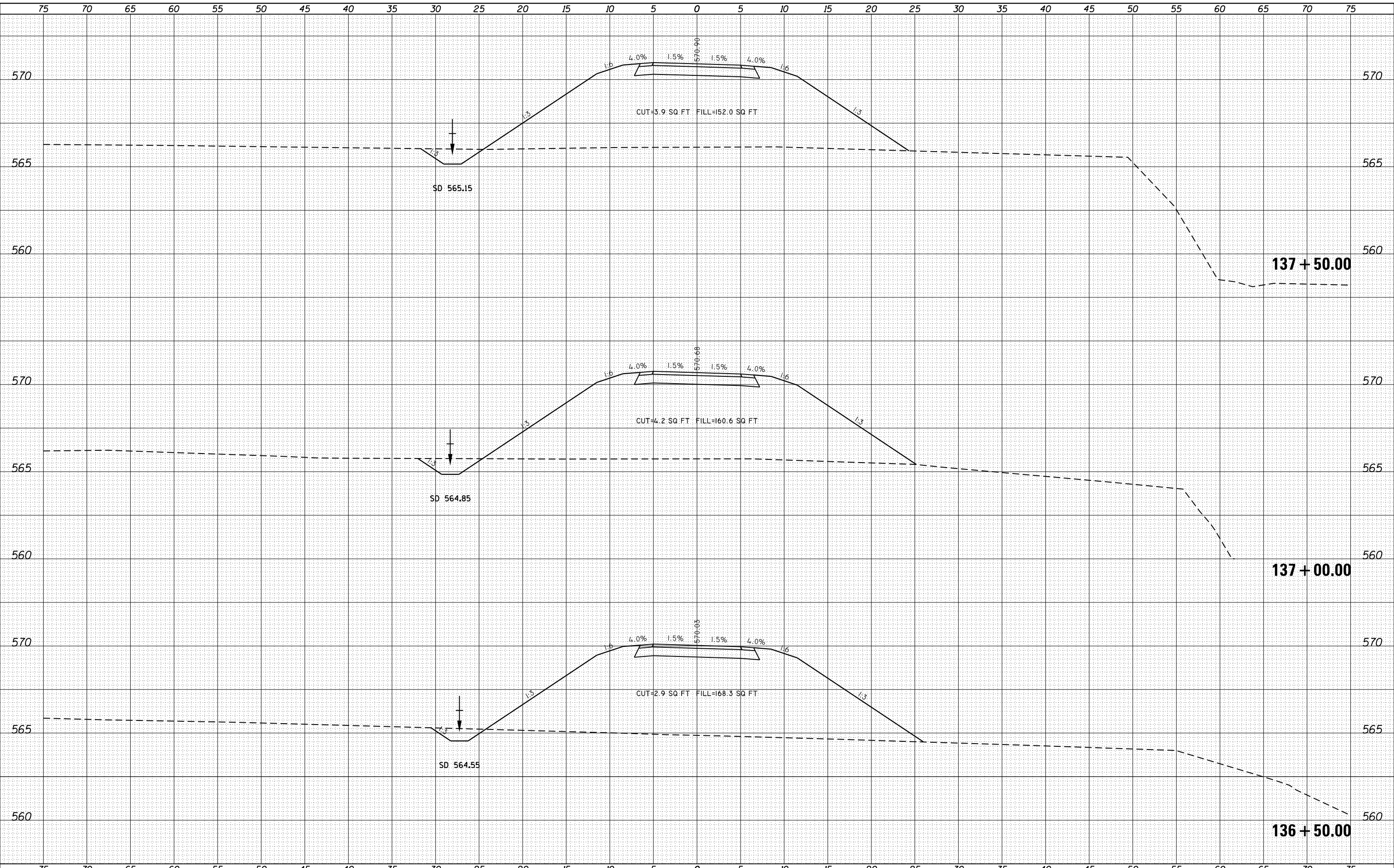
SHEET 8 OF 37 SHEETS STA. 135+25.00 TO STA. 136+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	82
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

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 616 NORTH ST. QUINCY, ILLINOIS 62301 217.223.3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

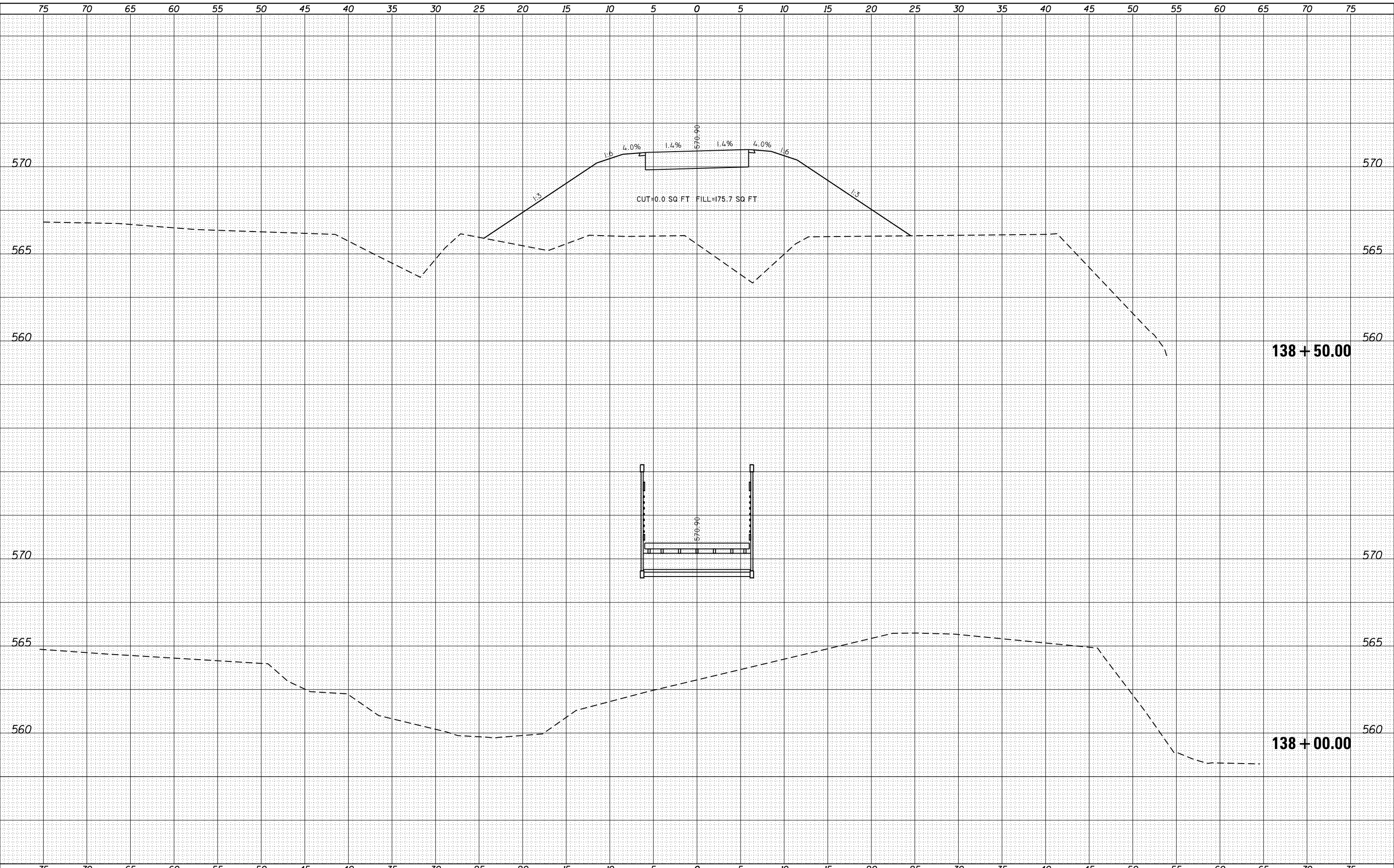
CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST
 SCALE: 1"=5'H
 1"=2.5'V
 SHEET 9 OF 37 SHEETS
 STA. 136+50.00 TO STA. 137+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	83
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT - XS Main Trail.dgn



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 Engineers • Architects • Surveyors
 616 NORTH ST. QUINCY, ILLINOIS 62301 217.223.3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

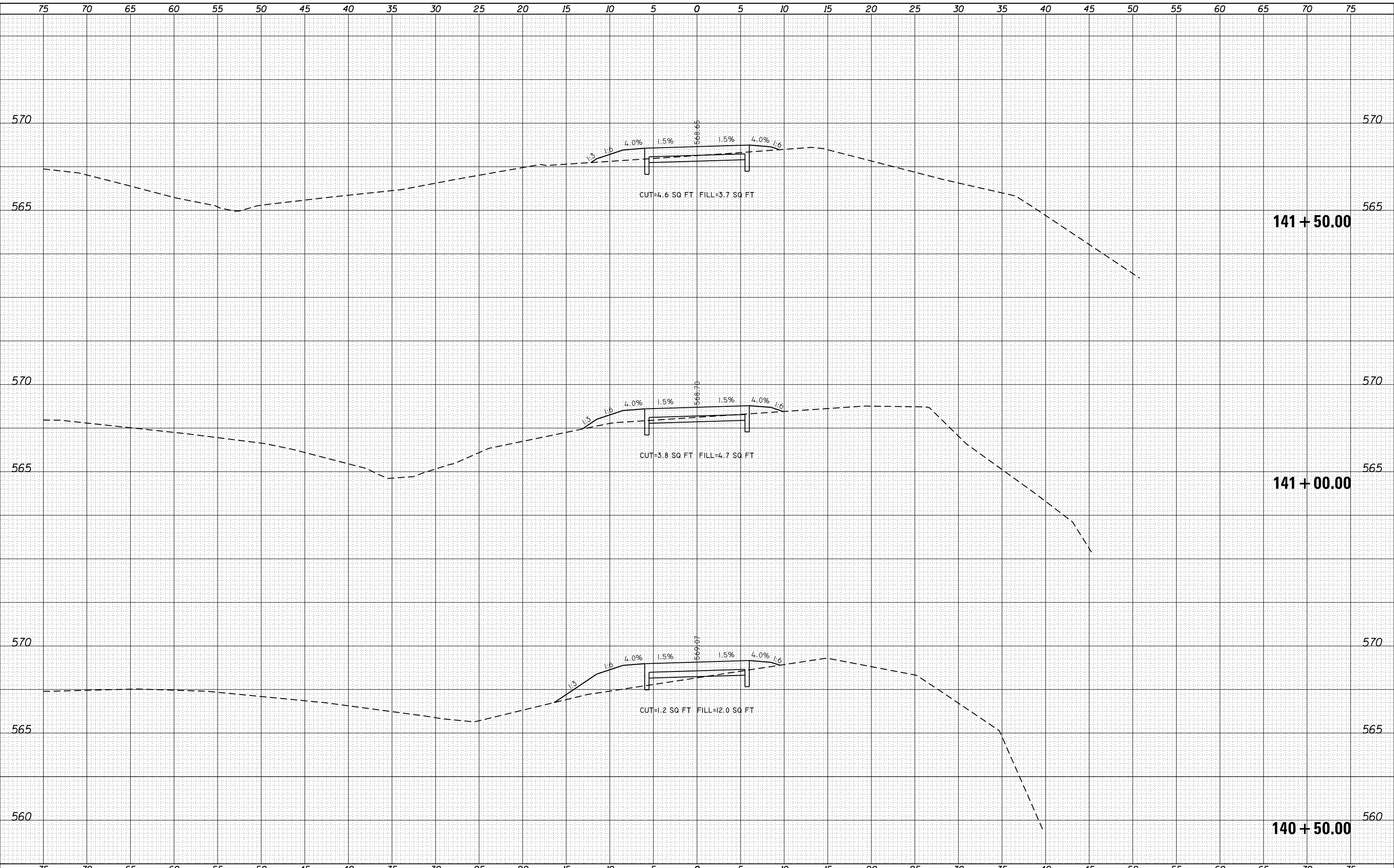
CROSS SECTIONS	
BILL KLINGNER TRAIL 18TH ST TO 24TH ST	
SCALE: 1"=5'H 1"=2.5'V	SHEET 10 OF 37 SHEETS
STA. 138+00.00	TO STA. 138+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	84
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT\16003-04-BT - XS Main Trail.dgn



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 616 NORTH ST. QUINCY, ILLINOIS 62431 217.233.3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

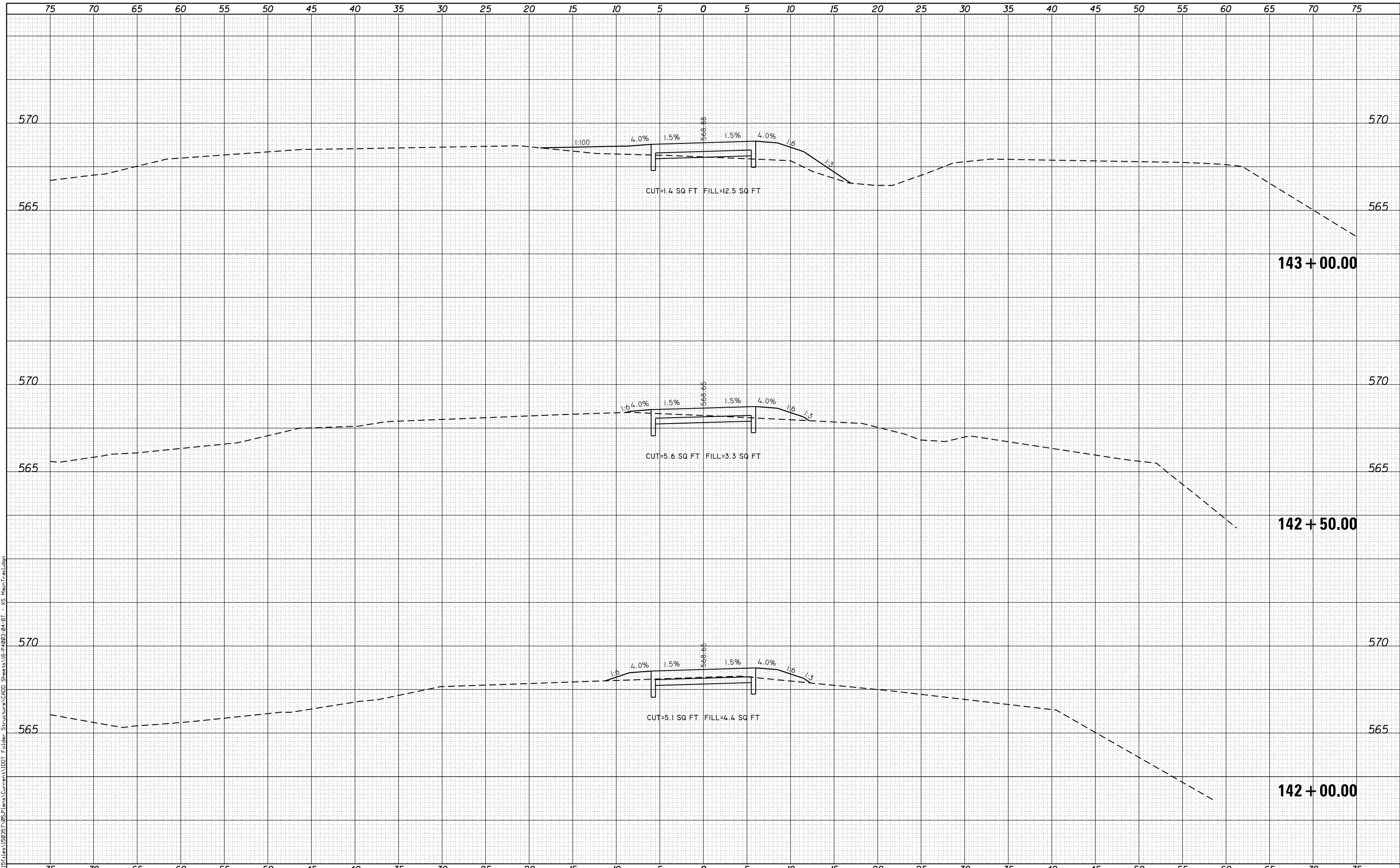
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
BILL KLINGNER TRAIL 18TH ST TO 24TH ST	
SCALE: 1"=5'H 1"=2.5'V	SHEET 12 OF 37 SHEETS
STA. 140+50.00	TO STA. 141+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	86
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = G:\Projects\16003\16003-04-BT\16003-04-BT - XS Main Trail.dgn

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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

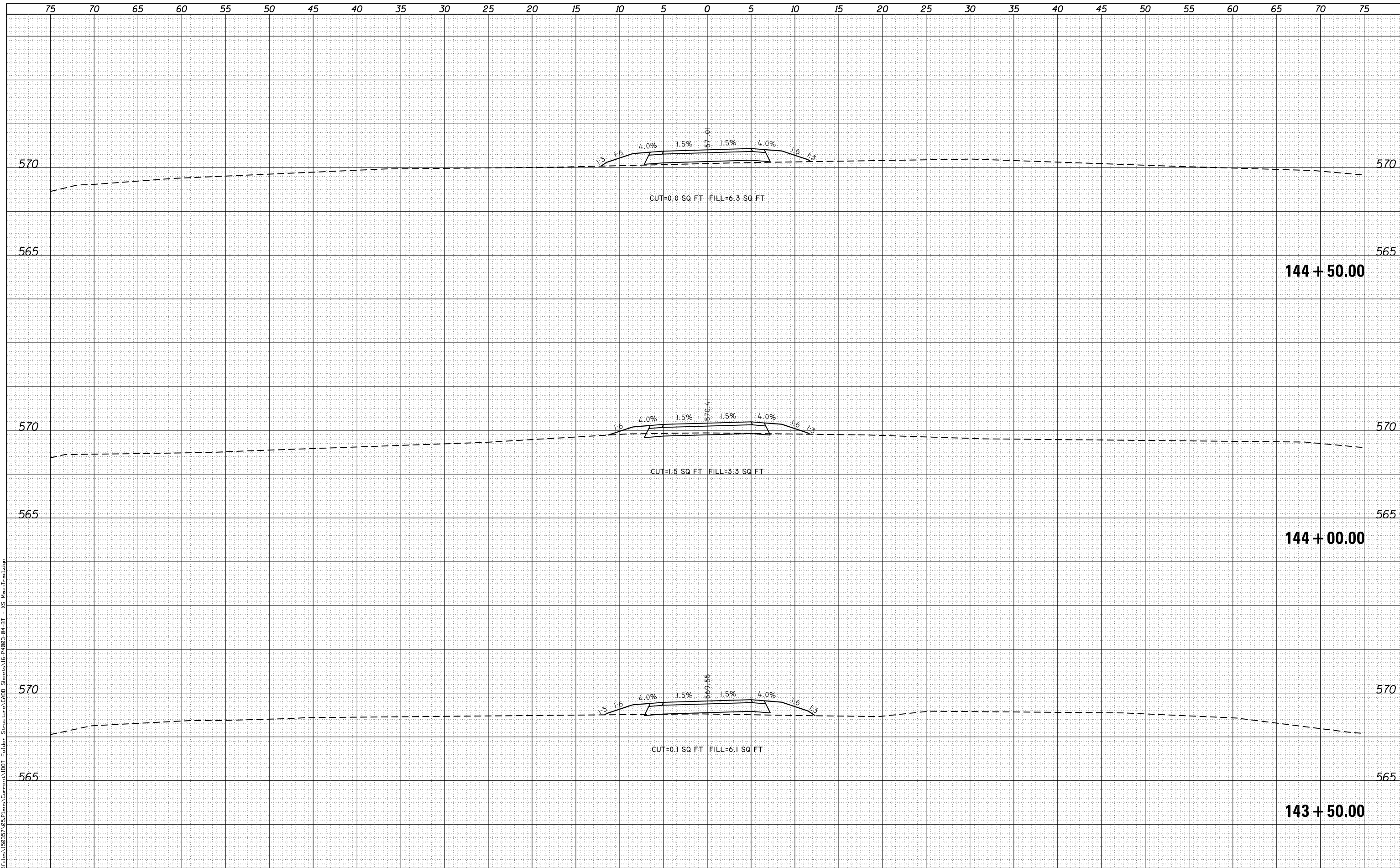
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST
 SCALE: 1"=5'H
 1"=2.5'V SHEET 13 OF 37 SHEETS STA. 142+00.00 TO STA. 143+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	87
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
AREAS CHECKED	



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 10/5/2018	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST**

SCALE: 1"=5'H
 1"=2.5'V

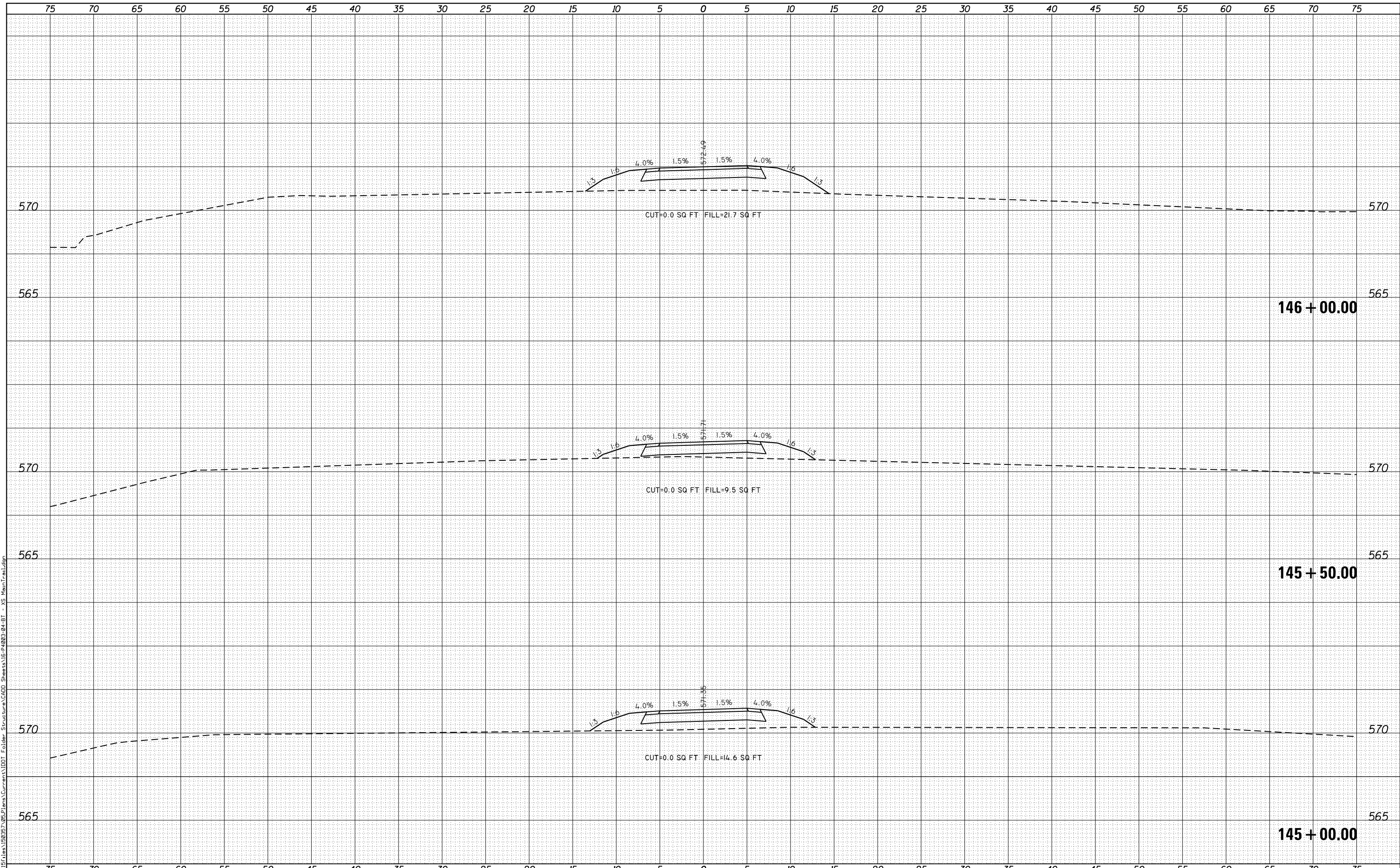
SHEET 14 OF 37 SHEETS STA. 143+50.00 TO STA. 144+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	88
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST**

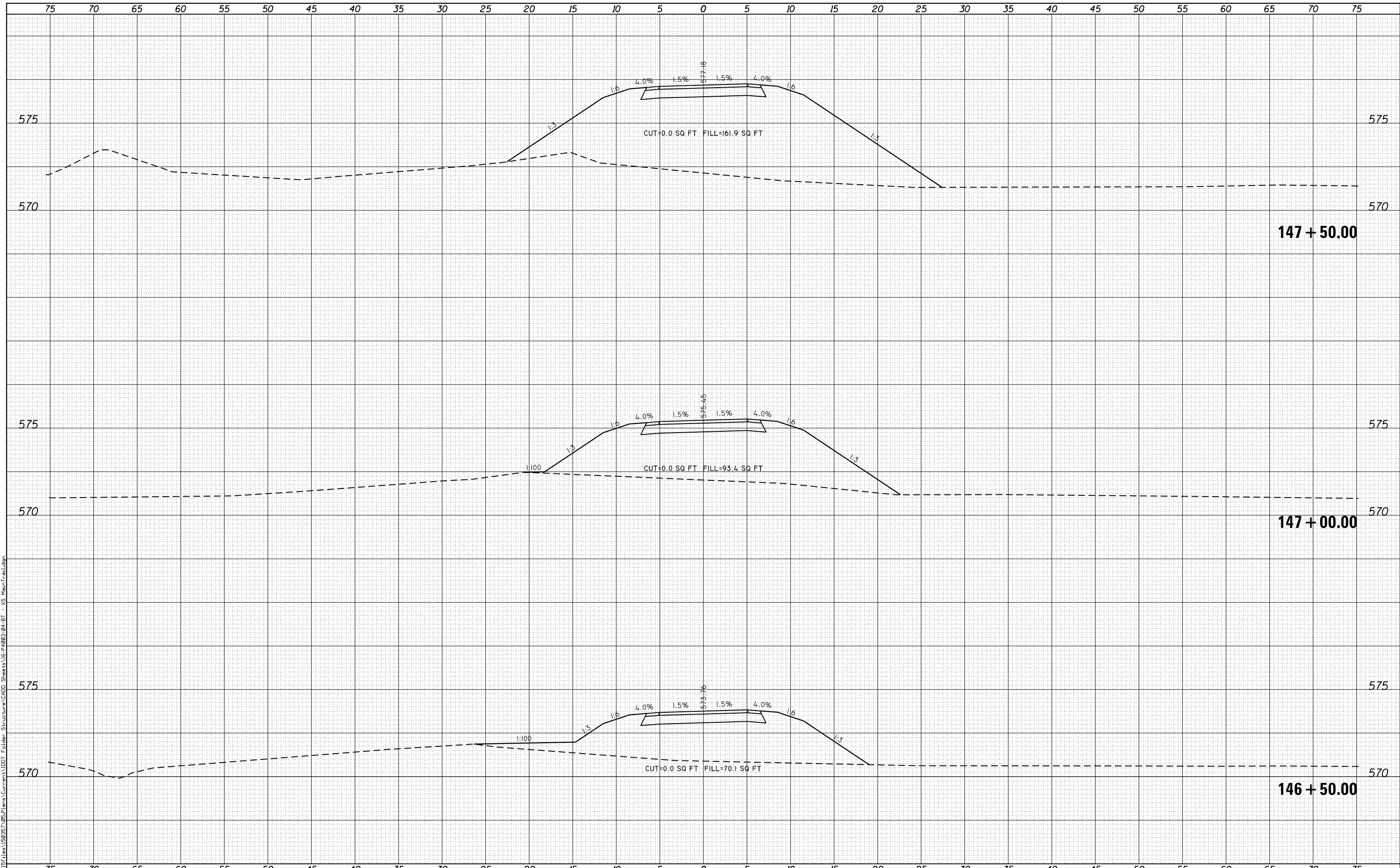
SCALE: 1"=5'H
 1"=2.5'V

SHEET 15 OF 37 SHEETS STA. 145+00.00 TO STA. 146+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	89
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK NO.	
TEMPLATE AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK NO.	
TEMPLATE AREAS CHECKED	



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USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST**

SCALE: 1"=5'H
 1"=2.5'V

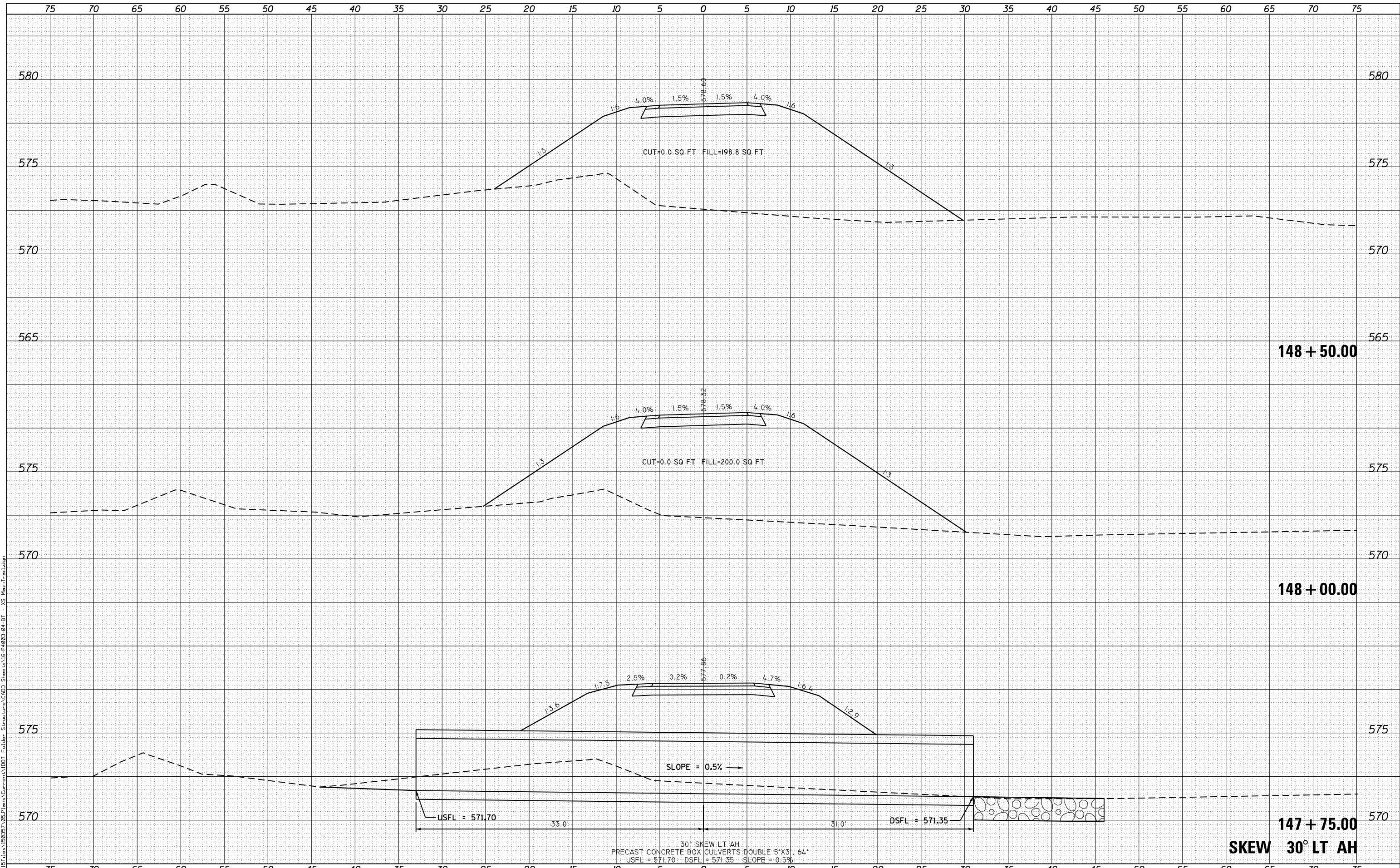
SHEET 16 OF 37 SHEETS STA. 146+50.00 TO STA. 147+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	90
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT\16003-04-BT - XS Main Trail.dgn



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 10/5/2018	CHECKED -	REVISD -
	DATE -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

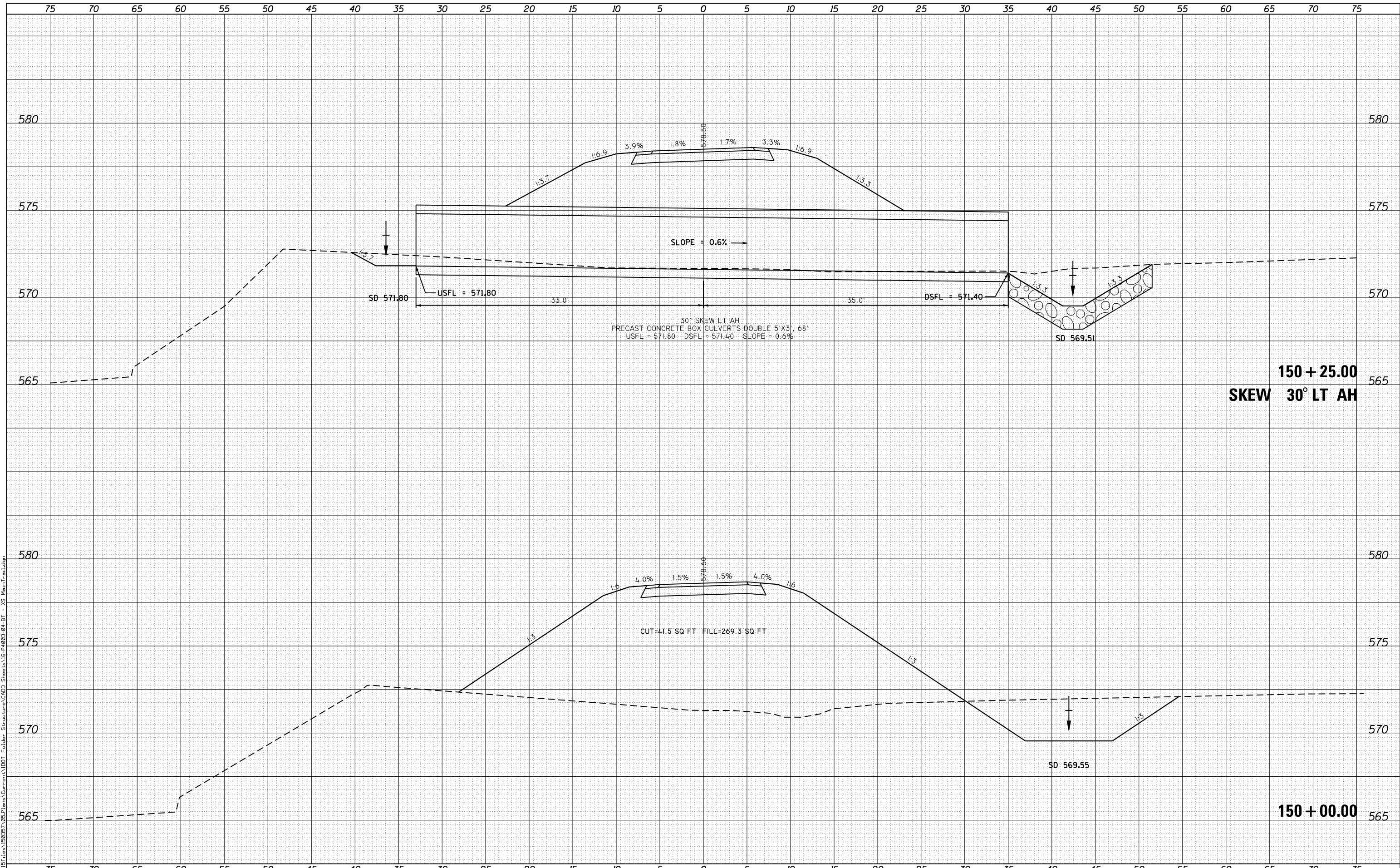
CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST
 SCALE: 1"=5'H
 1"=2.5'V
 SHEET 17 OF 37 SHEETS
 STA. 147+75.00 TO STA. 148+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	91
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

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150 + 25.00
SKEW 30° LT AH

150 + 00.00

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USER NAME = ebb	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 10/5/2018	DATE -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

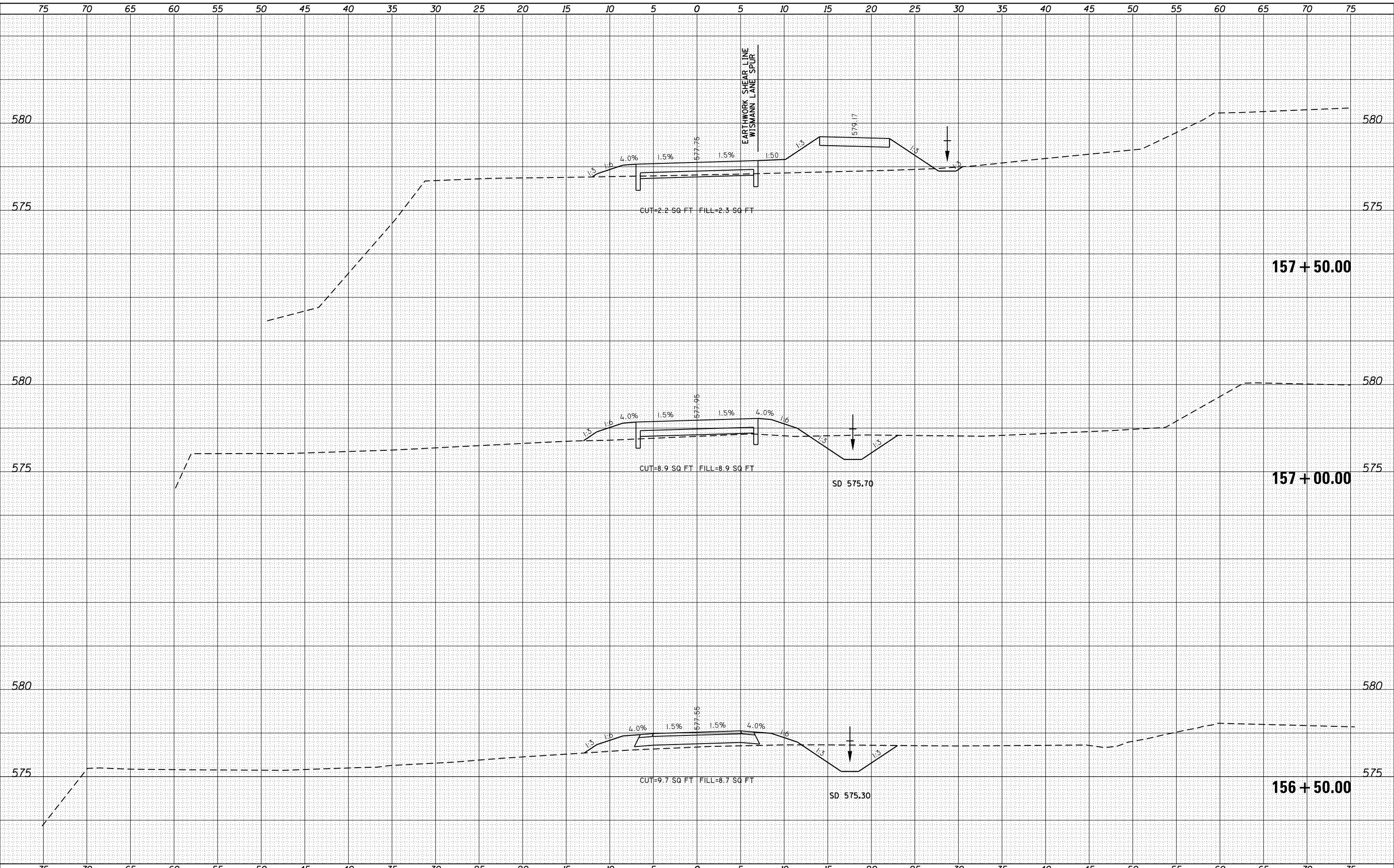
CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST
SCALE: 1"=5'H
1"=25'V
SHEET 19 OF 37 SHEETS
STA. 150+00.00 TO STA. 150+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	93
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

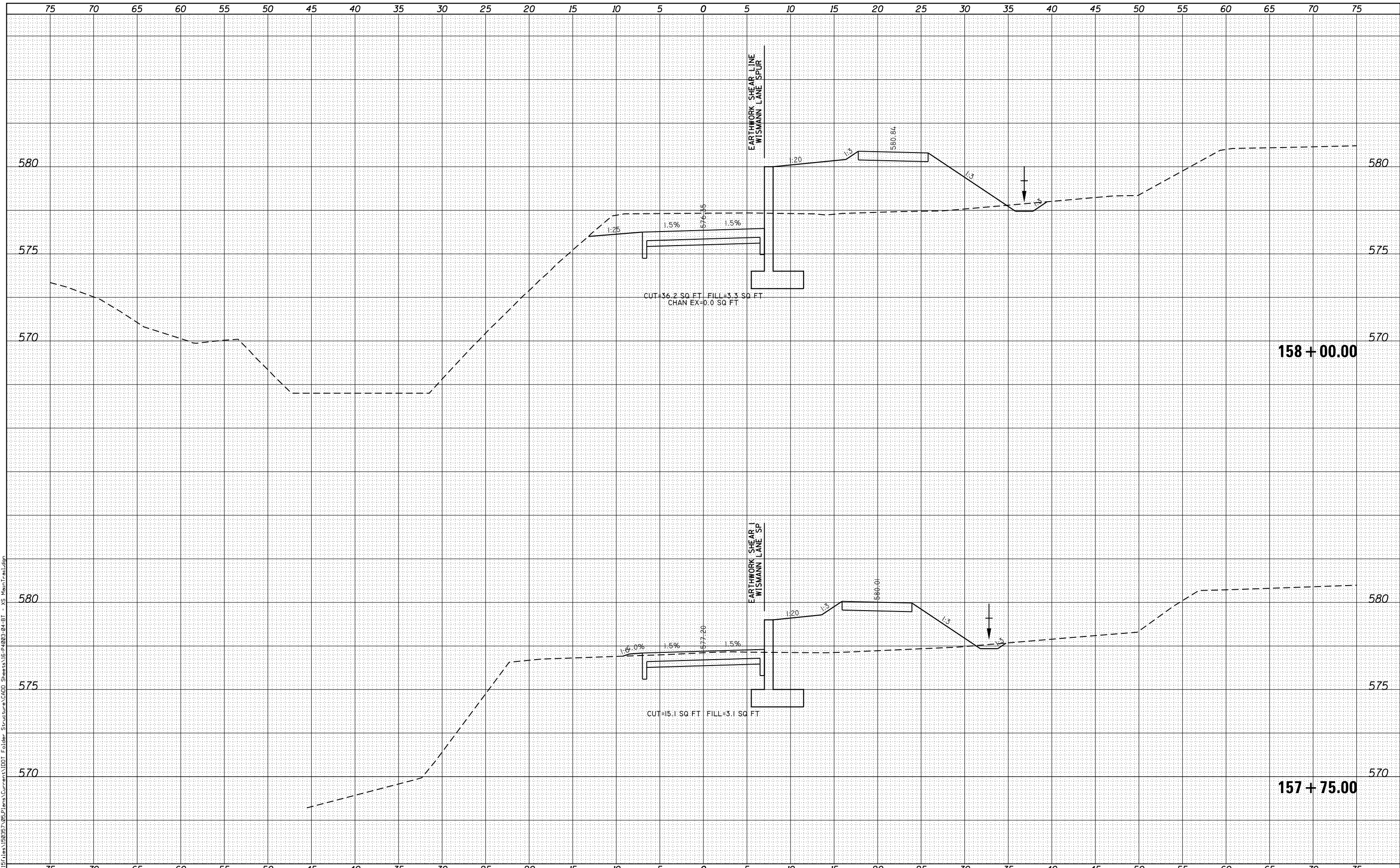
CROSS SECTIONS			
BILL KLINGNER TRAIL 18TH ST TO 24TH ST			
SCALE: 1"=5'H	SHEET 26 OF 37 SHEETS	STA. 156+50.00	TO STA. 157+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	100
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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USER NAME = ebb	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 10/5/2018	CHECKED -	REVISD -
	DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST**

SCALE: 1"=5'H
 1"=2.5'V

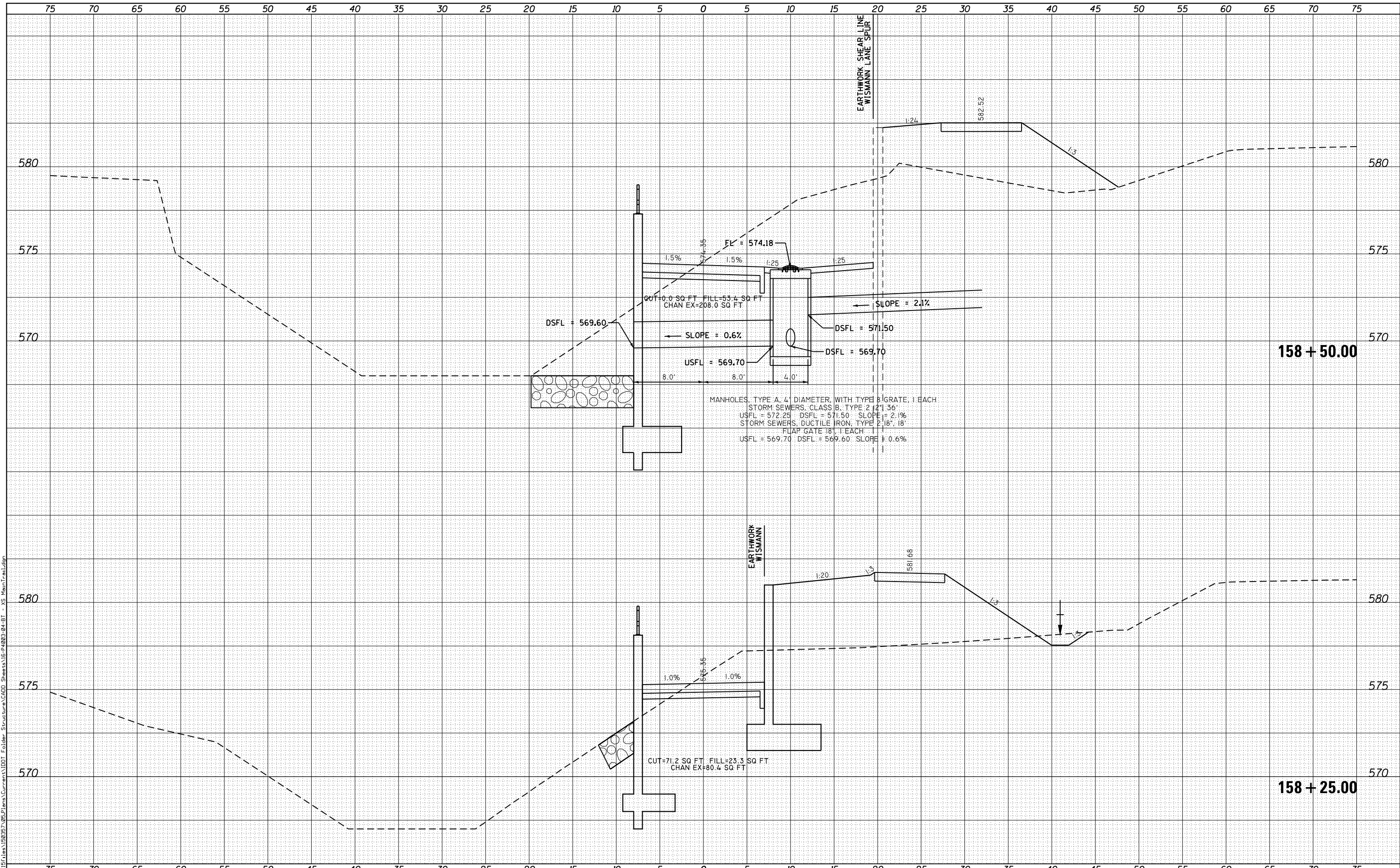
SHEET 27 OF 37 SHEETS STA. 157+75.00 TO STA. 158+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	101
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ebb	DESIGNED -	REVISÉ -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISÉ -
PLOT DATE = 10/5/2018	CHECKED -	REVISÉ -
	DATE -	REVISÉ -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

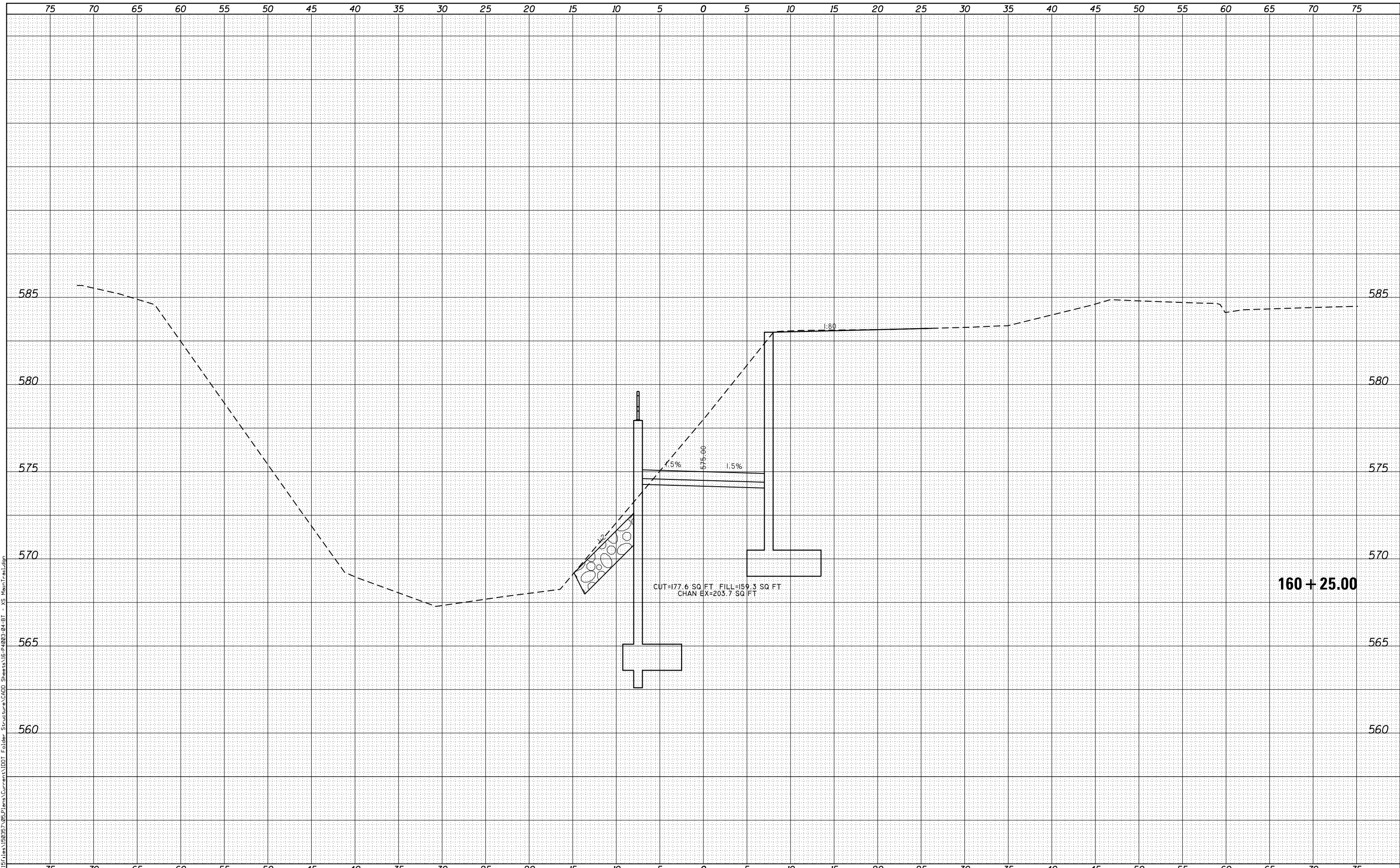
CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST
 SCALE: 1"=5'H
 1"=2.5'V SHEET 28 OF 37 SHEETS STA. 158+25.00 TO STA. 158+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	102
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

FILE NAME = G:\Projects\16003\16003-04-BT\16003-04-BT - XS Main Trail.dgn



CUT=177.6 SQ FT FILL=159.3 SQ FT
CHAN EX=203.7 SQ FT

160 + 25.00

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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 10/5/2018	DATE -	REVISIED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

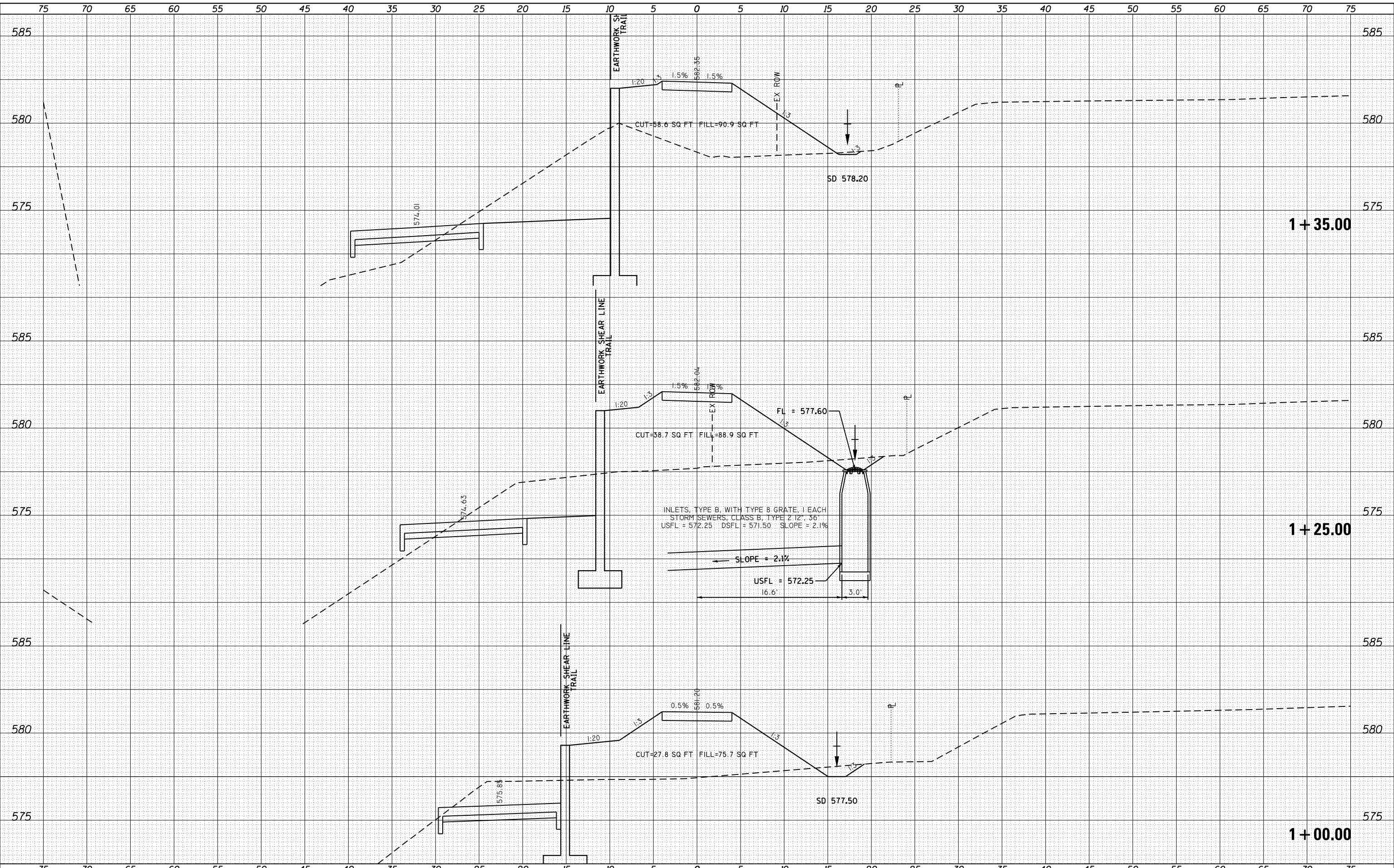
CROSS SECTIONS
BILL KLINGNER TRAIL 18TH ST TO 24TH ST
SCALE: SHEET 35 OF 37 SHEETS STA. 160+25.00 TO STA. 160+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	109
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
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TEMPLATE	
AREAS	
CHECKED	
NO.	

FILE NAME = G:\Projects\16003-04-BT\16003-04-BT - XS Wismann Lane Spur.dgn



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USER NAME = ebb	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 10/5/2018	CHECKED -	REVISD -
	DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WISMANN LANE SPUR**

SCALE: 1"=5'H
 1"=25.5'V

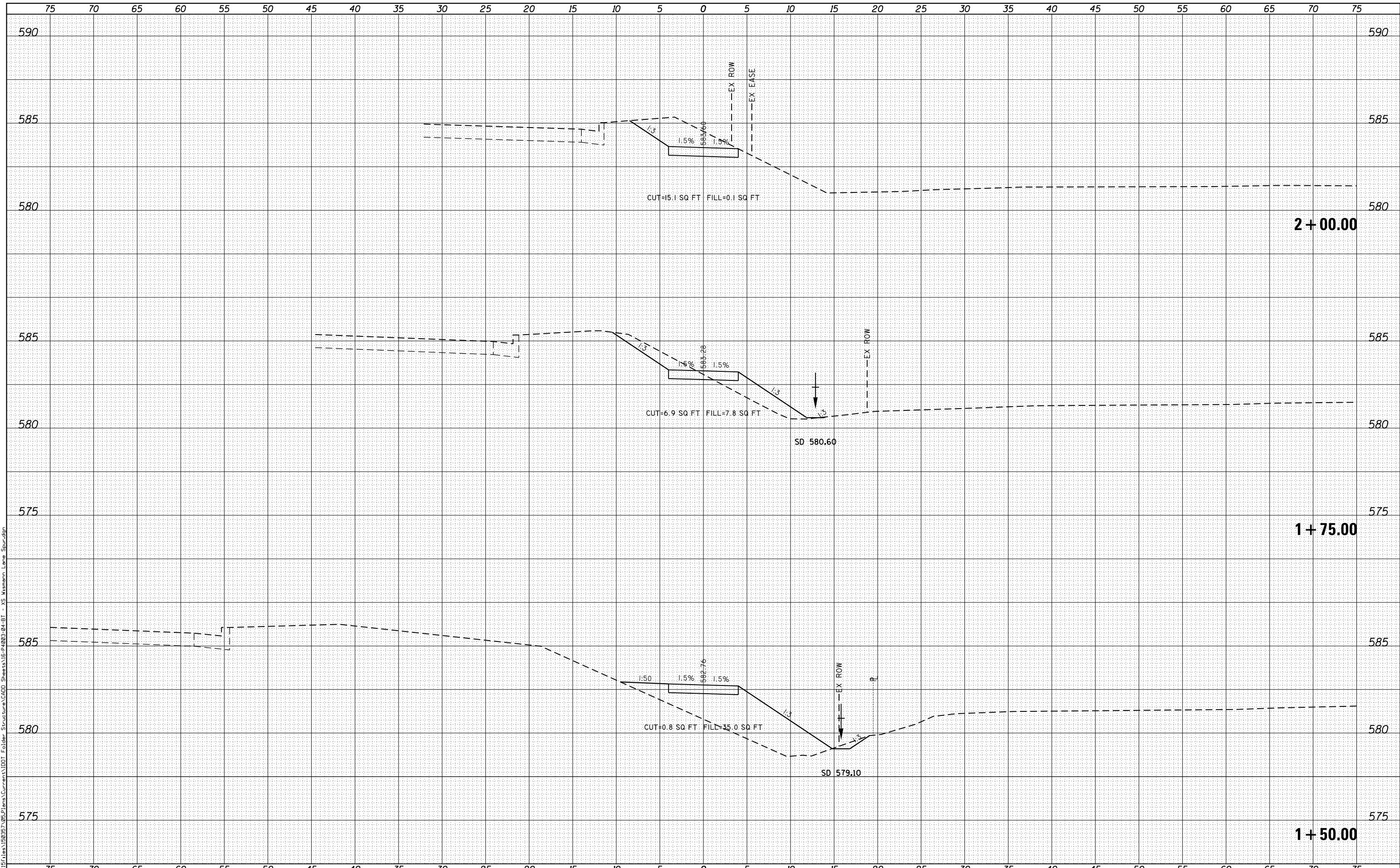
SHEET 2 OF 6 SHEETS STA. 1+00.00 TO STA. 1+35.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	113
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FILE NAME = G:\Projects\16003\16003-04-BT - XS Wismann Lane Spur.dgn



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USER NAME = ebb	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

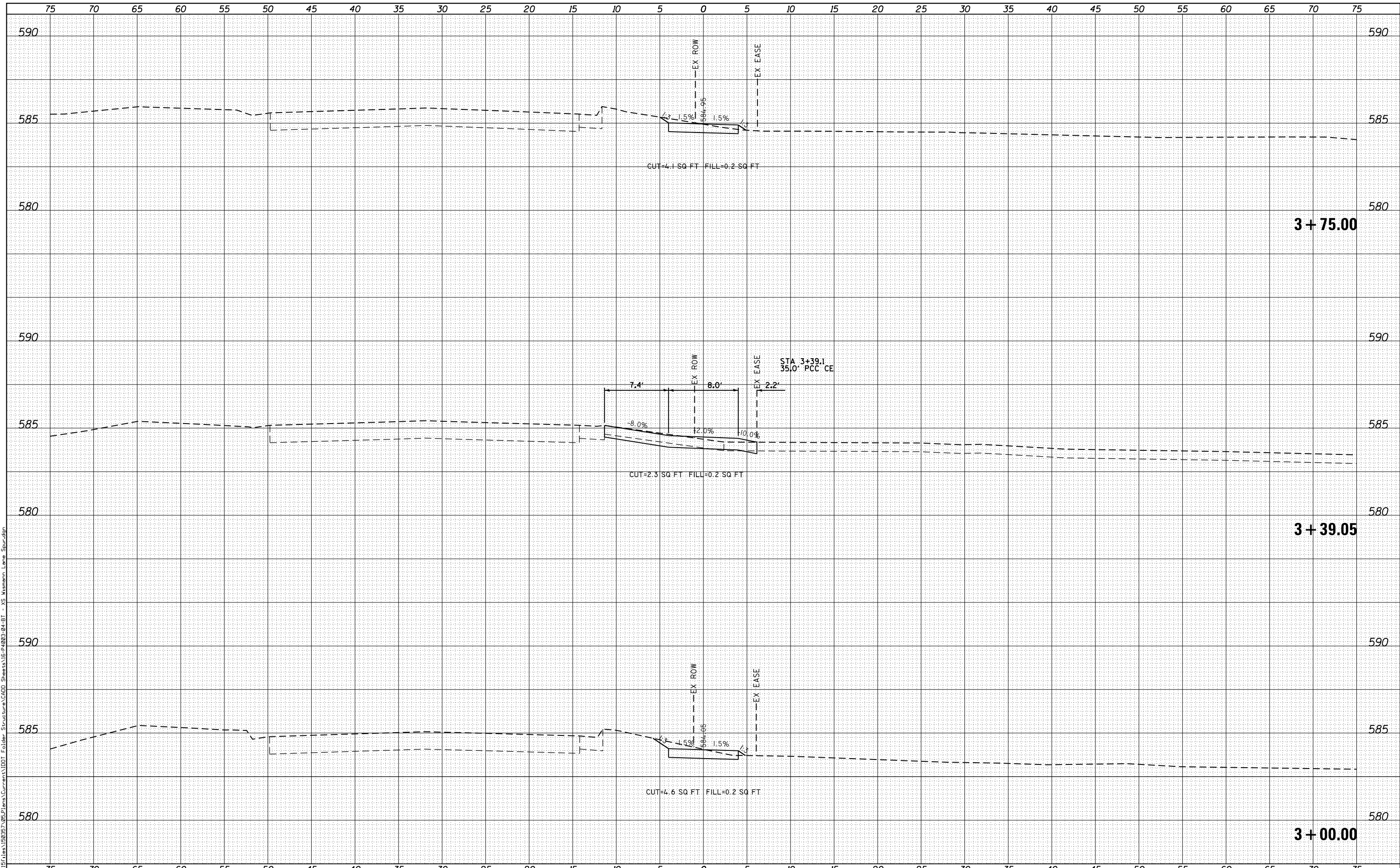
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WISMANN LANE SPUR
 SCALE: 1"=5'H
 1"=25'V
 SHEET 3 OF 6 SHEETS STA. 1+50.00 TO STA. 2+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	114
				CONTRACT NO. 93711
				ILLINOIS FED. AID PROJECT

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



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PLOT DATE = 10/5/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WISMANN LANE SPUR**

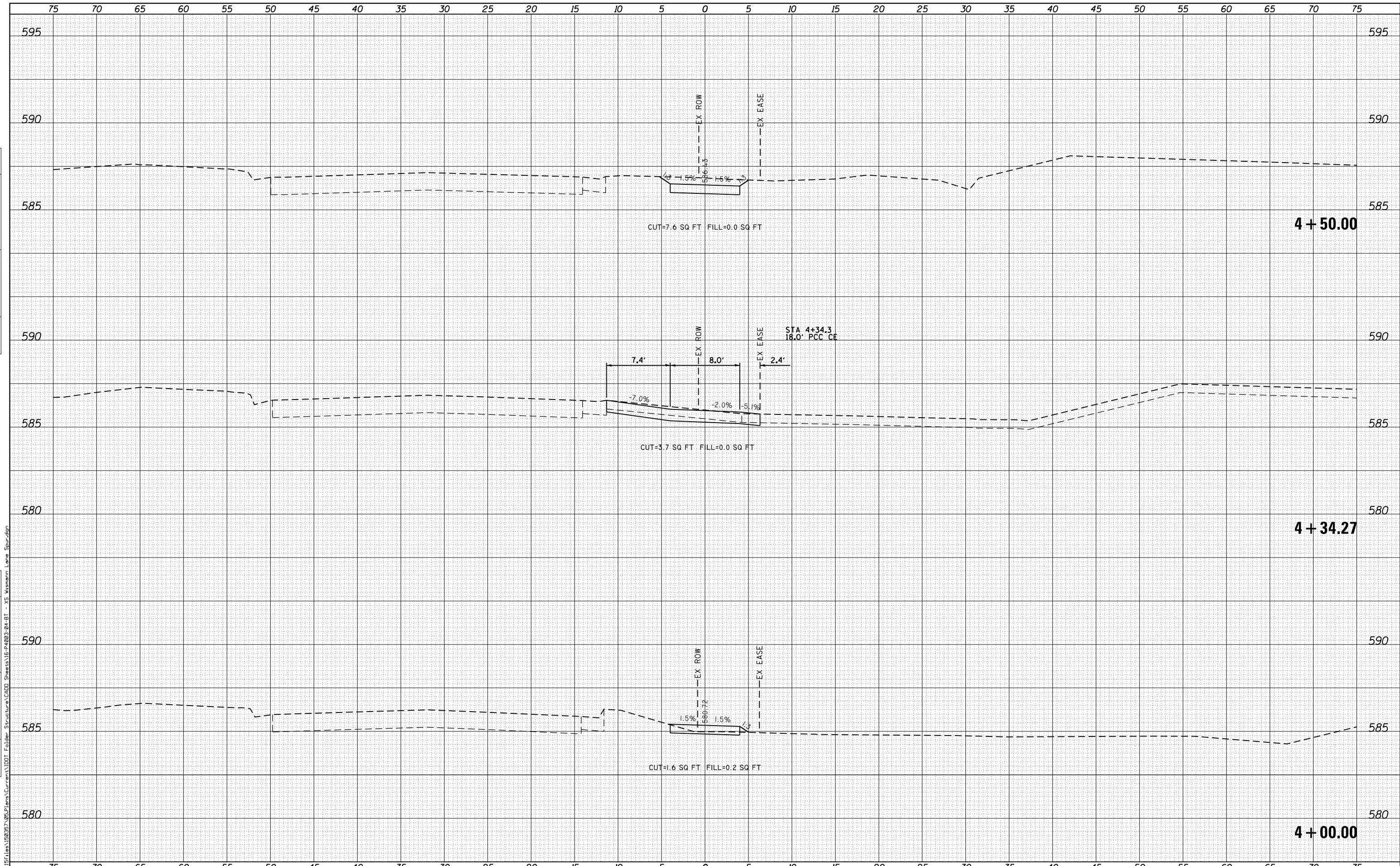
SCALE: 1"=5'H
 1"=25.5'V

SHEET 5 OF 6 SHEETS STA. 3+00.00 TO STA. 3+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	116
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
FINAL SURVEY NO.	
NOTE BOOK NO.	
PLATE AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
FINAL SURVEY NO.	
NOTE BOOK NO.	
PLATE AREAS CHECKED	



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	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 WISMANN LANE SPUR**

SCALE: 1"=5'H
 1"=25'V

SHEET 6 OF 6 SHEETS STA. 4+00.00 TO STA. 4+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	117	117
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				