

STATE OF ILLINOIS – DEPARTMENT OF TRANSPORTATION  
QUINCY PARK DISTRICT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	1
		ILLINOIS	CONTRACT NO. 93711	

# 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**

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**HIGHWAY STANDARDS**

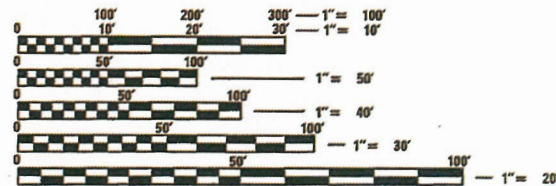
SEE SHEET 2 FOR LIST OF STANDARDS

**DESIGN DESIGNATION**

MULTI-USE PATH  
DESIGN SPEED: 20 MPH

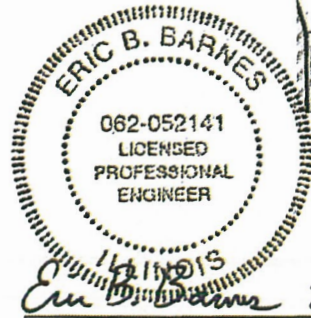
**PROJECT DESCRIPTION**

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.

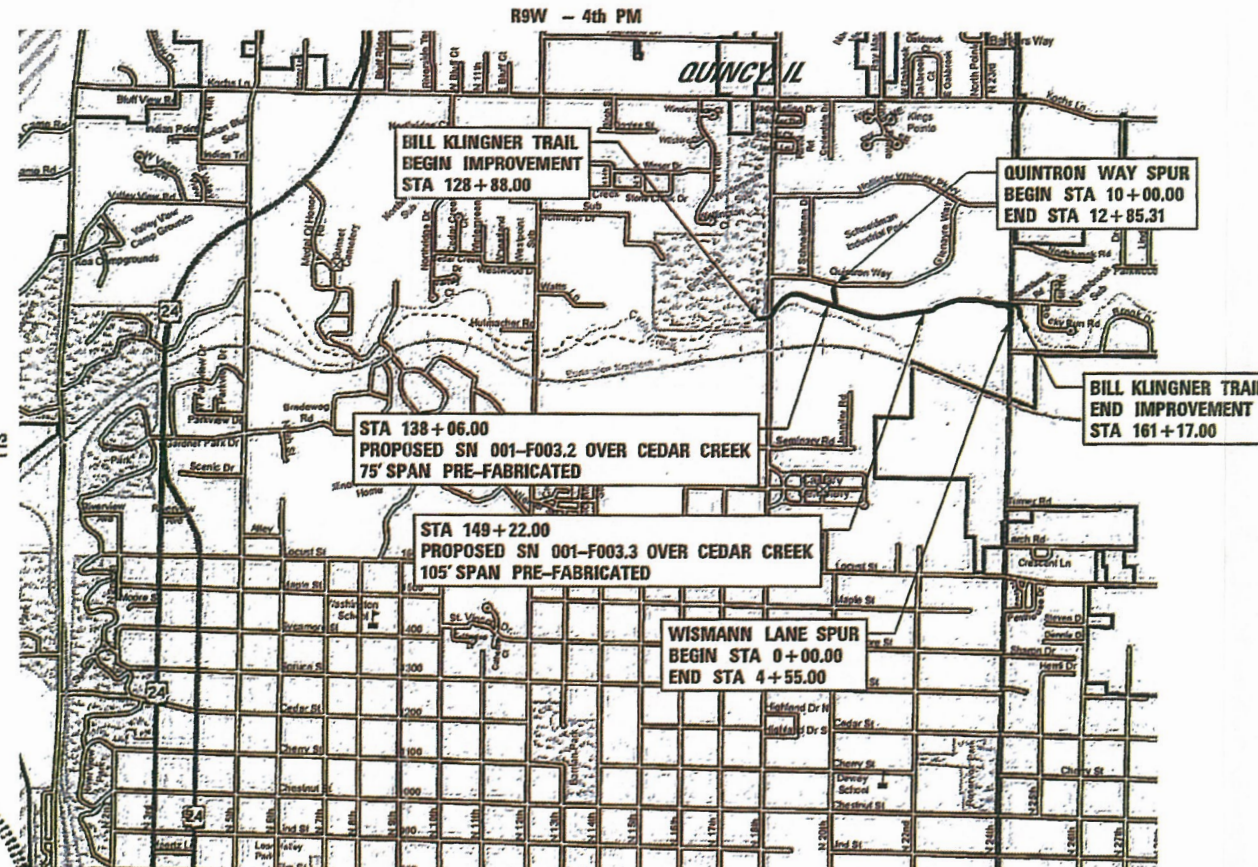


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

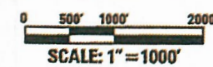
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811



*Eric B. Barnes* 3/01/18  
 ERIC B. BARNES DATE  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF ILLINOIS NO. 062-052141  
 LICENSE EXPIRES NOVEMBER 30, 2019



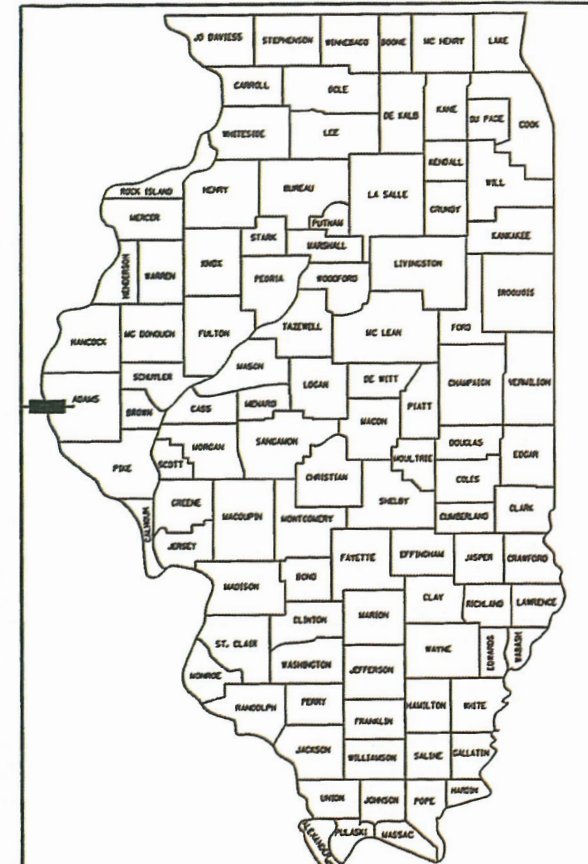
**LOCATION MAP**



NET LENGTH OF SECTION = 3,229.00 FT. = 0.612 MILES

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: —

APPROVED *March 1 20 18*  
*Ron Felt*  
 EXECUTIVE DIRECTOR, QUINCY PARK DISTRICT

PASSED *7-12 20 18*  
*John J. Tabell*  
 DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review *7-12 20 18*  
*Jeffery R. South*  
 REGION FOUR ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 93711

## 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
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
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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	DRAWN -	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/2/2018	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	122	2
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	
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	50	50			
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50	50			
* 20200100	EARTH EXCAVATION	CU YD	2480	2480			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	250	250			
* 20300100	CHANNEL EXCAVATION	CU YD	1385	1385			
20400800	FURNISHED EXCAVATION	CU YD	5630	5630			
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1009	897	56	56	
20800150	TRENCH BACKFILL	CU YD	75	75			
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1477	1477			
△ 25000115	SEEDING, CLASS 1B	ACRE	1.50	1.50			
△ 25000300	SEEDING, CLASS 3	ACRE	0.25	0.25			
△ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	158	158			
△ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	158	158			
△ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	158	158			
△ 25000700	AGRICULTURAL GROUND LIMESTONE	TON	4	4			

\* SEE SPECIAL PROVISIONS      △ **SPECIALTY ITEMS**

**KLINGNER ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-0728

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET 1 OF 8 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION 16-P4003-04-BT	COUNTY ADAMS	TOTAL SHEETS 122	SHEET NO. 3
			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	1.50	1.50			
△ 25100127	MULCH, METHOD 3A	ACRE	0.25	0.25			
△ 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	250	250			
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	30	30			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	350	350			
* 28000305	TEMPORARY DITCH CHECKS	FOOT	260	260			
* 28000315	AGGREGATE DITCH CHECKS	TON	40	40			
* 28000400	PERIMETER EROSION BARRIER	FOOT	4000	4000			
* 28000500	INLET AND PIPE PROTECTION	EACH	9	9			
28100107	STONE RIPRAP, CLASS A4	SO YD	313		72	241	
* 28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	285	285			
* 28100709	STONE DUMPED RIPRAP, CLASS A5	SO YD	375	375			
28200200	FILTER FABRIC	SO YD	1071	758	72	241	
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SO YD	1801	1801			

\* SEE SPECIAL PROVISIONS

△ **SPECIALTY ITEMS**

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers - Architects - Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62431-2117, 233-3979  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	4
CONTRACT NO. 93711			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				PPS#		
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				0028 URBAN	0028 URBAN	0028 URBAN
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	4072	4072		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	5201	5201		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	258	258		
42001300	PROTECTIVE COAT	SQ YD	2629	2629		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	119	119		
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	1195	1195		
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	3176	3176		
42400800	DETECTABLE WARNINGS	SQ FT	16	16		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	119	119		
44004250	PAVED SHOULDER REMOVAL	SQ YD	18	18		
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	18	18		
50200100	STRUCTURE EXCAVATION	CU YD	222	167	40	15
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	79	79		
50300225	CONCRETE STRUCTURES	CU YD	46.4		23.2	23.2

\* SEE SPECIAL PROVISIONS

**Δ SPECIALTY ITEMS**

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 818 N. 24TH ST. CLUENY, ILLINOIS 62391-2122-3079  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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PLOT SCALE = 40.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SUMMARY OF QUANTITIES**

SCALE: NONE	SHEET 3 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	122	5
CONTRACT NO. 93711			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
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				0028 URBAN	0028 URBAN	0028 URBAN
* 70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1	1		
* 70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1		
Δ 72000100	SIGN PANEL - TYPE 1	SO FT	29	29		
Δ* 72900100	METAL POST - TYPE A	FOOT	193	193		
Δ 73000100	WOOD SIGN SUPPORT	FOOT	79	79		
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4240	4240		
Δ 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	16	16		
Δ* Z0001110	GAS VALVE TO BE ADJUSTED	EACH	1	1		
Δ* Z0007124	STEEL RAILING (SPECIAL)	FOOT	219	219		
* Z0012450	CONCRETE STEPS	CU YD	6.5	6.5		
* Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	618	424	97	97
* Z0054406	ROCKFILL-FOUNDATION	CU YD	250	250		
Δ* Z0055900	RUSTIC WOOD POST AND RAIL FENCE	FOOT	134	134		
* Z0065796	RIPRAP SLURRY	SQ YD	375	375		

\* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers - Architects - Surveyors  
 816 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = dms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 "/ in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	8
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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FILE NAME: D:\S\F\16935\16935.dwg - Current\1001 - Folder - Structures\CADD - Sheets\16-P4003-04-BT - Summary.dgn

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	00 28 URBAN	00 28 URBAN
#* Z0076600	TRAINEES	HOUR	1000			
#* Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	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	3	3		
△ B2001112	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 1-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	3	3		
△ D2001772	EVERGREEN, PICEA ABIES (NORWAY SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	5	5		
△ E2002066	VINE-CAMPSIS RADICANS (TRUMPET VINE), 1-GALLON POT	EACH	5	5		
△* K1003680	MULCH	SO YD	184	184		
△ K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	0.38	0.38		
△* X0301115	LANDSCAPE EDGING	FOOT	488	488		
* X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SO FT	2108		874	1234
△* X0324534	REMOVE AND REINSTALL LIGHT POLES	LSUM	1	1		

\* SEE SPECIAL PROVISIONS #0042 △ 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. 181-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / 1" =	DRAWN -	REVISED -
PLOT DATE = 7/10/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 7 OF 8 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	9
CONTRACT NO. 93711			ILLINOIS FED. AID PROJECT	







TREE REMOVAL

NO	ITEM	UNIT	TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	50
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50

THE SCHEDULE FOR TREE REMOVAL IS AN ESTIMATED QUANTITY. IT MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THIS ESTIMATED QUANTITY SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

EARTH EXCAVATION SCHEDULE

LOCATION		SIDE	20200100		20400800	
STATION TO STATION			EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED (25%)	EMBANKMENT	FURNISHED EXCAVATION
CU YD						
BILL KLINGNER TRAIL						
128+88	161+30	LT & RT	2285	1714	6466	(4752)
QUINTRON WAY SPUR						
10+09	12+81	LT & RT	28	21	716	(695)
WISMANN LANE SPUR						
0+07	4+55	LT & RT	163	123	303	(180)
TOTALS			2476	1858	7485	(5627)
USE			2480	1855	7485	(5630)

CHANNEL EXCAVATION

STATION TO STATION	SIDE	CU YD
BILL KLINGNER TRAIL		
158+00	160+75	LT & RT
TOTAL		1385
USE		1385

MISCELLANEOUS EARTHWORK ITEMS SCHEDULE

NO	ITEM	UNIT	TOTAL
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	250
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1477
Z0054406	ROCKFILL-FOUNDATION	CU YD	250

THE SCHEDULE FOR MISCELLANEOUS PAVING ITEMS ARE ESTIMATED QUANTITIES. IT MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

SEEDING SCHEDULE

STATION TO STATION	SIDE	WIDTH	25000115		25000300		25000400		25000500		25000600		25100115		25100127		25000700	
			SEEDING		FERTILIZER NUTRIENTS			MULCH		AGRICULTURAL								
			CLASS 1B	CLASS 3	NITROGEN	PHOSPHORUS	POTASSIUM	METHOD 2	METHOD 3A	LIMESTONE								
ACRE			POUND			ACRE		TON										
BILL KLINGNER TRAIL																		
128+88	161+30	RT	VARIES	0.77	0.15	82.8	82.8	82.8	0.77	0.15							1.84	
128+88	161+30	LT	VARIES	0.69	0.09	70.2	70.2	70.2	0.69	0.09							1.56	
TOTALS				1.46	0.24	153.0	153.0	153.0	1.46	0.24							3.40	
USE				1.50	0.25	158	158	158	1.50	0.25							4	

NOTE: QUANTITIES INCLUDE AREAS ALONG QUINTRON WAY SPUR & WISMANN LANE SPUR (SEE LANDSCAPING PLANS).

EROSION CONTROL SCHEDULE

NO	ITEM	UNIT	TOTAL
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	250
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	30
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	350
28000305	TEMPORARY DITCH CHECKS	FOOT	260
28000315	AGGREGATE DITCH CHECKS	TON	40
28000400	PERIMETER EROSION BARRIER	FOOT	4000
28000500	INLET AND PIPE PROTECTION	EACH	9

THE SCHEDULE FOR EROSION CONTROL IS AN ESTIMATED QUANTITY. IT MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THIS ESTIMATED QUANTITY SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

PROTECTIVE COAT

ITEM	42001300
	SQ YD
PCC DRIVEWAY PAVEMENT, 8 INCH	119.0
PCC SIDEWALK 4 INCH	132.8
PCC SIDEWALK 6 INCH	352.9
CONCRETE STEPS	13.5
PCC PAVEMENT 6", SPECIAL	1890.0
PCC SIDEWALK 6 INCH, SPECIAL	120.2
TOTAL	2628.4
USE	2629

AGGREGATE SHOULDERS (SPECIAL)

STATION TO STATION		SIDE	TON
X4811900			
BILL KLINGNER TRAIL			
132+35.0	137+68.5	LT	23.2
132+35.0	137+68.5	RT	23.2
138+43.5	138+64.6	LT	0.6
138+43.5	140+45.0	RT	8.5
138+85.4	140+45.0	LT	6.6
143+25.0	148+69.5	LT	23.8
143+25.0	148+69.5	RT	23.8
149+74.5	152+00.0	LT	9.7
149+74.5	152+00.0	RT	9.7
153+15.0	156+95.5	LT	16.4
153+15.0	156+95.5	RT	16.4
QUINTRON WAY SPUR			
10+08.5	12+81.0	LT	12.1
10+08.5	12+81.8	RT	12.1
TOTAL			186.1
USE			187

FILE NAME = D:\Projects\16P4003\06.Plan\Current\1001 - Structure\CADD - Sheets\16-P4003-04-BT - Schedule.scdn



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	DRAWN -	REVISED -
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/6/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	13
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

PAVED SHOULDER REMOVAL

44004250

STATION TO STATION	SIDE	SO YD
QUINTRON WAY SPUR		
12+81.3	LT & RT	17.8
TOTAL		17.8
USE		18

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

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

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

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	
2	138+75.0	RT	NORTH		70x36	RECREATIONAL SIGN 1				17.5		29.0
			NORTH		70x12	RECREATIONAL SIGN 2			5.8			
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	
20	161+02.0	RT	WEST	R9	12x18	CYCLISTS DISMOUNT		1.5			10.5	
QUINTRON WAY SPUR												
3	10+20.0	LT	NORTH	R1-1	18x18	STOP		2.3			11.0	
4	12+72.0	RT	SOUTH	R1-1	18x18	STOP		2.3			11.0	
5	12+72.0	LT	NORTH	R5-3	24x24	NO MOTORIZED VEHICLES		4.0			11.0	
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								28.9	22.4	52.5	192.5	79.0
USE								29	23	53	193	79

• 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
QUINTRON WAY SPUR				
10+20.0	12+71.6	CL	SOLID CENTERLINE	251.6
WISMANN LANE SPUR				
0+11.1	4+55.0	CL	SOLID CENTERLINE	443.9
TOTAL				315.0
USE				3924.5
				4240

PAINT PAVEMENT MARKING - LINE 24"

78001180

STATION	SIDE	DESCRIPTION	WHITE
			FOOT
QUINTRON WAY SPUR			
10+20.0	RT	STOP BAR	5.0
12+71.6	LT	STOP BAR	5.0
WISMANN LANE SPUR			
0+11.1	LT	STOP BAR	6.0
TOTAL			16.0
USE			16

PIPE HANDRAIL

50901760

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).

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 PLOT DATE = 7/10/2018

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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	122	15
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

TREE, ACER RUBRUM OCTOBER GLORY  
(OCTOBER GLORY RED MAPLE),  
2-1/2" CALIPER, BALLED AND BURLAPPED  
A2001120

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
132+95.0	LT	25.0	1
133+40.0	LT	25.0	1
139+25.0	RT	20.0	1
146+20.0	LT	20.0	1
146+65.0	RT	15.0	1
147+15.0	LT	15.0	1
154+25.0	LT	15.0	1
154+75.0	LT	20.0	1
155+25.0	LT	15.0	1
TOTAL			9

TREE, ACER SACCHARUM  
(SUGAR MAPLE),  
3" CALIPER, BALLED AND BURLAPPED  
A2001724

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
136+10.0	LT	20.0	1
136+65.0	RT	20.0	1
137+05.0	LT	20.0	1
TOTAL			3

TREE, BETULA NIGRA  
(RIVER BURCH),  
6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED  
A2002366

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
132+60.0	LT	25.0	1
133+10.0	LT	25.0	1
133+65.0	LT	25.0	1
134+15.0	LT	20.0	1
134+60.0	LT	20.0	1
135+60.0	RT	20.0	1
142+80.0	RT	15.0	1
143+20.0	LT	20.0	1
143+25.0	RT	10.0	1
149+90.0	RT	25.0	1
150+35.0	RT	25.0	1
150+75.0	LT	20.0	1
157+10.0	RT	25.0	1
TOTAL			13

TREE, TAXODIUM DISTICHUM  
(COMMON BALD CYPRESS),  
6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED  
A2007666

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
138+90.0	LT	40.0	1
139+10.0	LT	20.0	1
139+30.0	LT	20.0	1
140+45.0	LT	15.0	1
140+65.0	LT	15.0	1
140+85.0	LT	15.0	1
141+05.0	LT	15.0	1
141+25.0	LT	15.0	1
148+00.0	RT	25.0	1
148+25.0	LT	20.0	1
148+45.0	LT	25.0	1
152+25.0	RT	25.0	1
152+75.0	RT	25.0	1
153+25.0	RT	25.0	1
WISMANN LANE SPUR			
1+15.0	RT	10.0	1
1+50.0	RT	10.0	1
1+80.0	RT	10.0	1
TOTAL			17

TREE, CERCIS CANADENSIS  
(EASTERN REDBUD),  
1-1/2" CALIPER, TREE FORM, BALLED AND BURPAPPED  
B2001112

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
128+90.0	LT	20.0	1
QUINTRON WAY SPUR			
12+50.0	RT	15.0	1
12+60.0	LT	15.0	1
TOTAL			3

TREE, AMELANCHIER ARBOREA  
(DOWNY SERVICEBERRY),  
6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED  
B2000900

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
128+88.0	RT	15.0	1
138+55.0	LT	35.0	1
WISMANN LANE SPUR			
1+50.0	LT	15.0	1
TOTAL			3

EVERGREEN, PICEA ABIES  
(NORWAY SPRUCE),  
6' HEIGHT, BALLED AND BURLAPPED  
D2001772

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
150+95.0	RT	20.0	1
151+30.0	RT	20.0	1
151+65.0	RT	20.0	1
155+55.0	RT	20.0	1
156+15.0	RT	20.0	1
TOTAL			5

VINE-CAMPSIS RADICANS  
(TRUMPET VINE),  
1-GALLON POT  
E2002066

STATION	SIDE	OFFSET	EACH
BILL KLINGNER TRAIL			
160+65.0	RT	40.0	1
160+70.0	RT	40.5	1
160+75.0	RT	41.0	1
160+80.0	RT	42.0	1
160+85.0	RT	43.5	1
TOTAL			5

MULCH  
K1003680

STATION TO STATION	SIDE	SO YD
BILL KLINGNER TRAIL		
130+85 131+80	LT	87.2
160+60 160+95	RT	31.6
160+75 160+95	RT	44.0
160+70 161+05	RT	21.2
TOTAL		183.9
USE		184

PERENNIAL PLANTS,  
ORNAMENTAL TYPE,  
GALLON POT  
K0012990

STATION TO STATION	SIDE	UNIT
BILL KLINGNER TRAIL		
130+85 131+80	LT	0.17
160+60 160+95	RT	0.08
160+75 160+95	RT	0.10
160+70 161+05	RT	0.03
TOTAL		0.38

LANDSCAPING EDGING  
X0301115

STATION TO STATION	SIDE	FOOT
BILL KLINGNER TRAIL		
130+85 131+80	LT	202.5
160+60 160+95	RT	111.8
160+75 160+95	RT	84.2
160+70 161+05	RT	88.6
TOTAL		487.1
USE		488

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USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

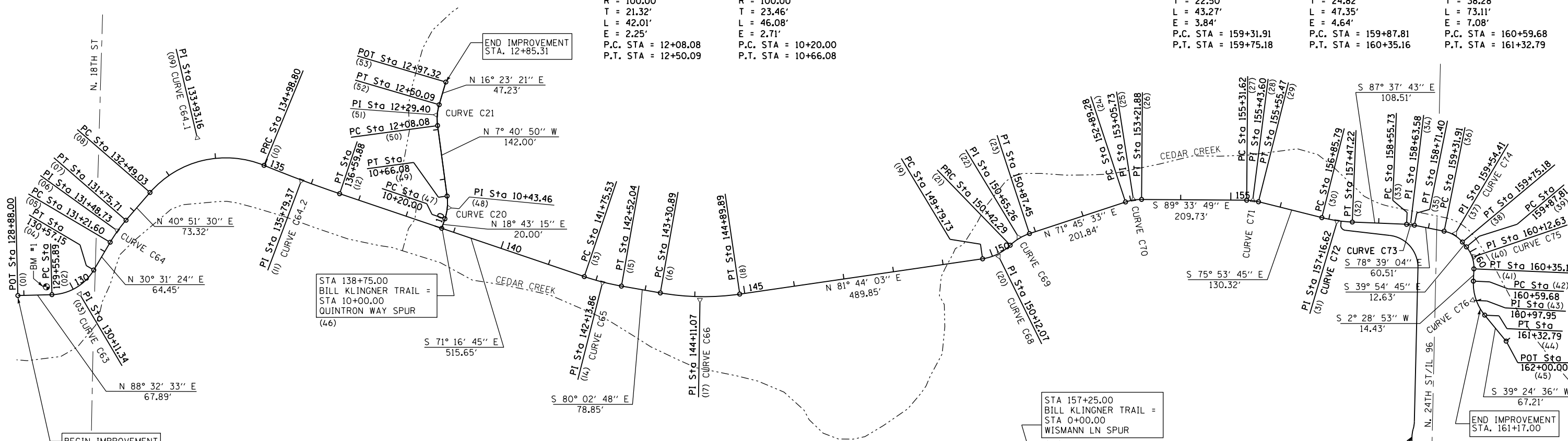
SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93711	



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 = 18° 13' 09" (LT) 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 C21 QUINTRON WAY SPUR PI STA. = 12+29.40 Δ = 24° 04' 11" (RT) D = 57° 17' 45" R = 100.00' T = 21.32' L = 42.01' E = 2.25' P.C. STA = 12+08.08 P.T. STA = 12+50.09	PROP. CURVE C20 QUINTRON WAY SPUR PI STA. = 10+43.46 Δ = 26° 24' 04" (LT) D = 57° 17' 45" R = 100.00' T = 23.46' L = 46.08' E = 2.71' P.C. STA = 10+20.00 P.T. STA = 10+66.08	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 = 4.64' 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 = 3.84' 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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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

QUINTRON WAY SPUR - CONTROL POINTS

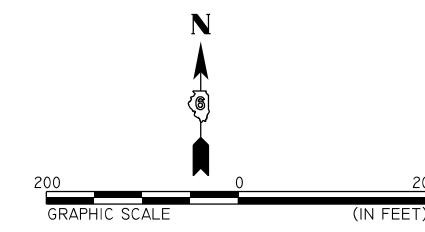
POINT #	NORTHING	EASTING
46	1,201,076.1125	1,955,195.9245
47	1,201,095.0544	1,955,202.3436
48	1,201,117.2693	1,955,209.8719
49	1,201,140.5147	1,955,206.7371
50	1,201,281.2442	1,955,187.7586
51	1,201,302.3721	1,955,184.9094
52	1,201,322.8250	1,955,190.9248
53	1,201,368.1366	1,955,204.2514

WISMANNE 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

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 & WISMANNE LANE  
ELEV 591.45 (NAVD 1988 DATUM)



**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors  
616 N. 24TH ST. QUINCY, ILLINOIS 62201-2123-2670  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 200.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

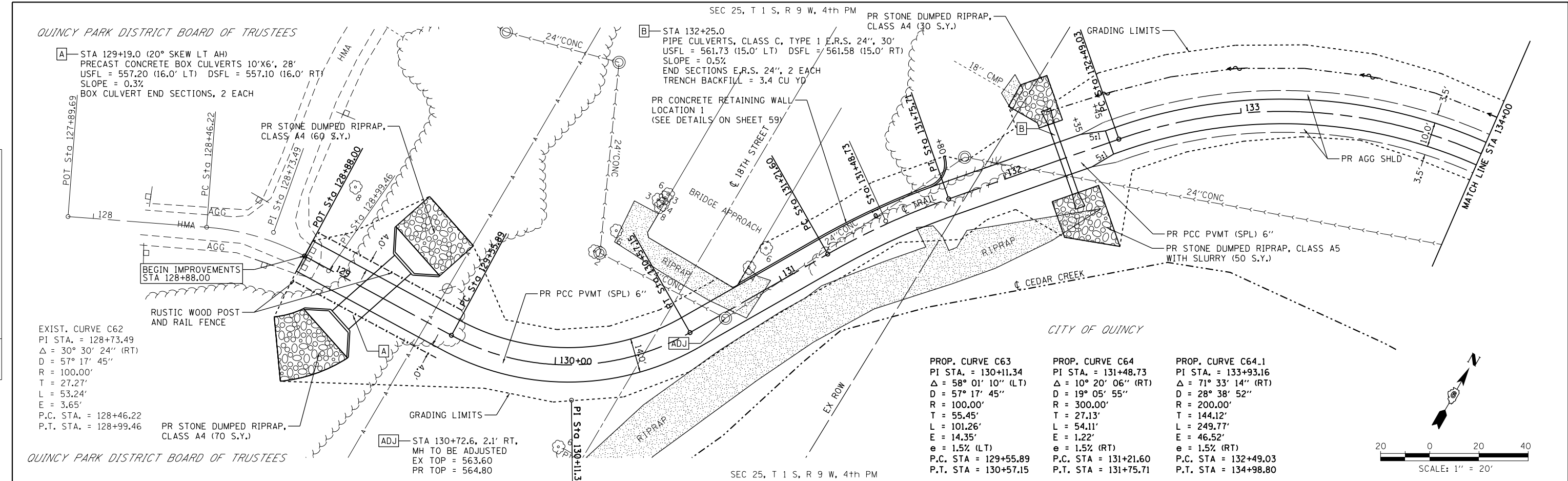
**ALIGNMENT AND BENCHMARK DATA**

SCALE: 1"=100'	SHEET 1 OF 1 SHEETS	STA.	TO STA.
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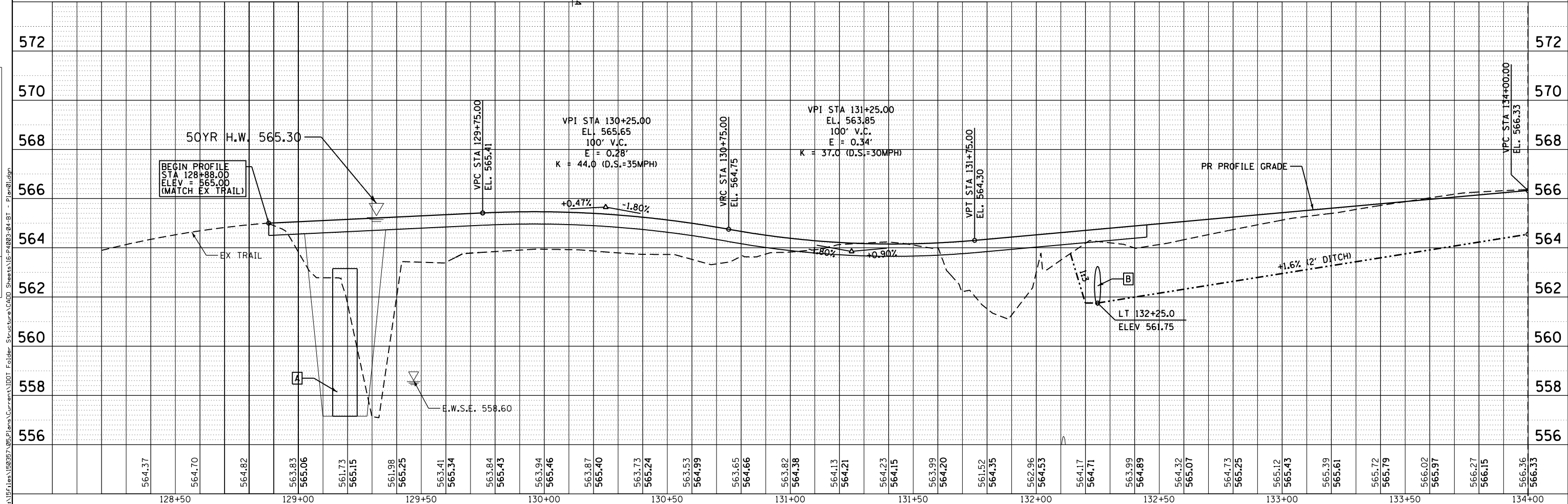
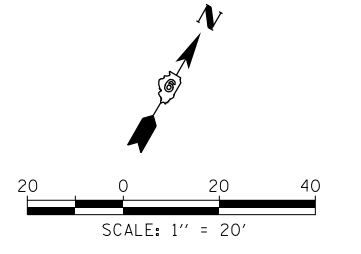
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	17
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	BY	

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



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'	
e	= 1.5% (LT)	
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'	
e	= 1.5% (RT)	
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'	
e	= 1.5% (RT)	
P.C. STA.	= 132+49.03	
P.T. STA.	= 134+98.80	



**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	= oms
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL  
 PLAN & PROFILE**

SCALE: 1"=20'    SHEET 1 OF 10 SHEETS    STA. 128+00 TO STA. 134+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	18
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

**C** STA 135+25.0  
 PIPE CULVERTS, CLASS C, TYPE 1 24", 34"  
 USFL = 563.80 (17.0' LT) DSFL = 563.60 (17.0' RT)  
 SLOPE = 0.6%  
 END SECTIONS 24", 2 EACH  
 TRENCH BACKFILL = 5.2 CU YD

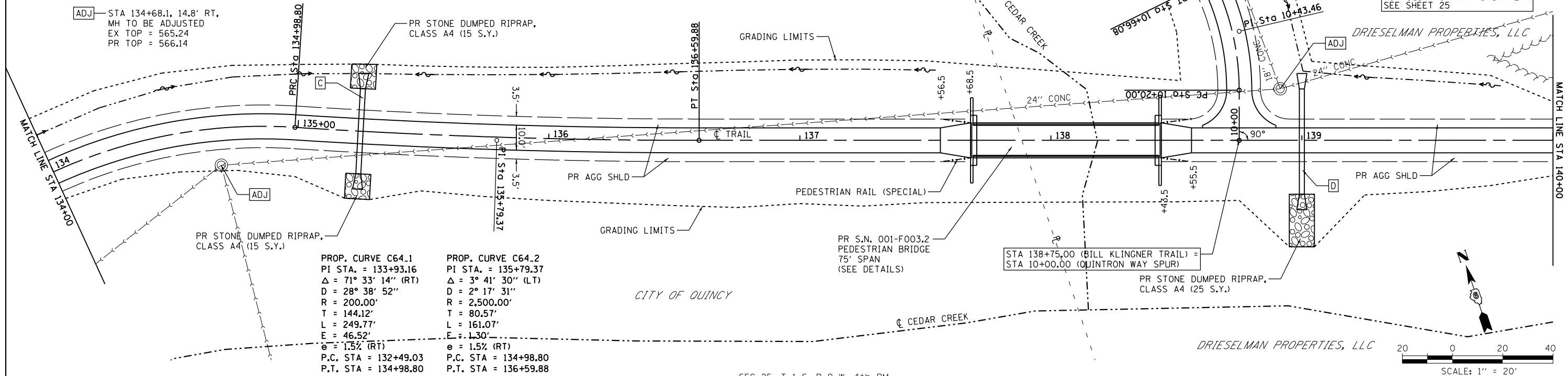
CITY OF QUINCY

**D** STA 139+00.0  
 PIPE CULVERTS, CLASS C, TYPE 1 24", 42"  
 USFL = 565.50 (20.5' LT) DSFL = 565.25 (21.5' RT)  
 SLOPE = 0.6%  
 END SECTIONS 24", 2 EACH  
 TRENCH BACKFILL = 13.5 CU YD

**ADJ** STA 138+71.4, 20.5' LT,  
 MH TO BE ADJUSTED  
 EX TOP = 566.13  
 PR TOP = 568.65

FOR QUINTRON WAY SPUR PLAN  
 SEE SHEET 25

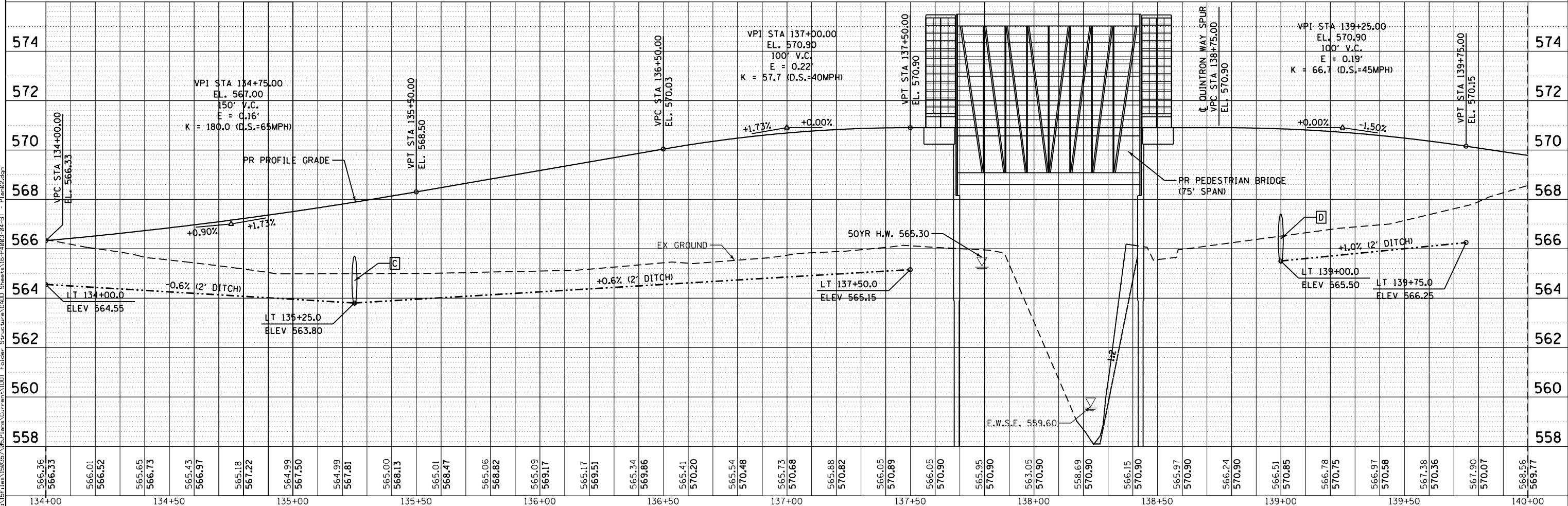
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTED	FILED
	NO.	



**PROP. CURVE C64.1**  
 PI STA. = 133+93.16  
 $\Delta = 71^\circ 33' 14''$  (RT)  
 $D = 28^\circ 38' 52''$   
 $R = 200.00'$   
 $T = 144.12'$   
 $L = 249.77'$   
 $E = 46.52'$   
 $e = 1.5\%$  (RT)  
 P.C. STA = 132+49.03  
 P.T. STA = 134+98.80

**PROP. CURVE C64.2**  
 PI STA. = 135+79.37  
 $\Delta = 3^\circ 41' 30''$  (LT)  
 $D = 2^\circ 17' 31''$   
 $R = 2,500.00'$   
 $T = 80.57'$   
 $L = 161.07'$   
 $E = 1.30'$   
 $e = 1.5\%$  (RT)  
 P.C. STA = 134+98.80  
 P.T. STA = 136+59.88

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



**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST., QUINCY, ILLINOIS 62301-2123, 618-233-3870  
 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME = oms  
 PLOT SCALE = 40.0000" / in.  
 DATE = 3/2/2018

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BILL KLINGNER TRAIL  
 PLAN & PROFILE

SCALE: 1"=20' SHEET 2 OF 10 SHEETS STA. 134+00 TO STA. 140+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	19
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

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

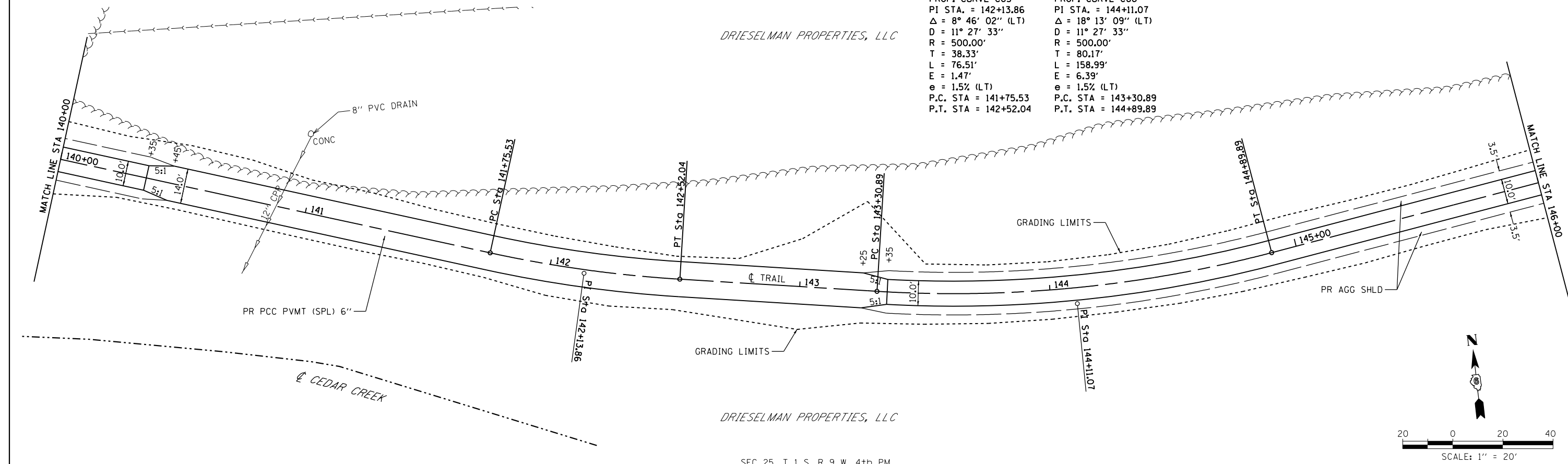
DRIESELMAN PROPERTIES, LLC

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'  
 e = 1.5% (LT)  
 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'  
 e = 1.5% (LT)  
 P.C. STA = 143+30.89  
 P.T. STA = 144+89.89

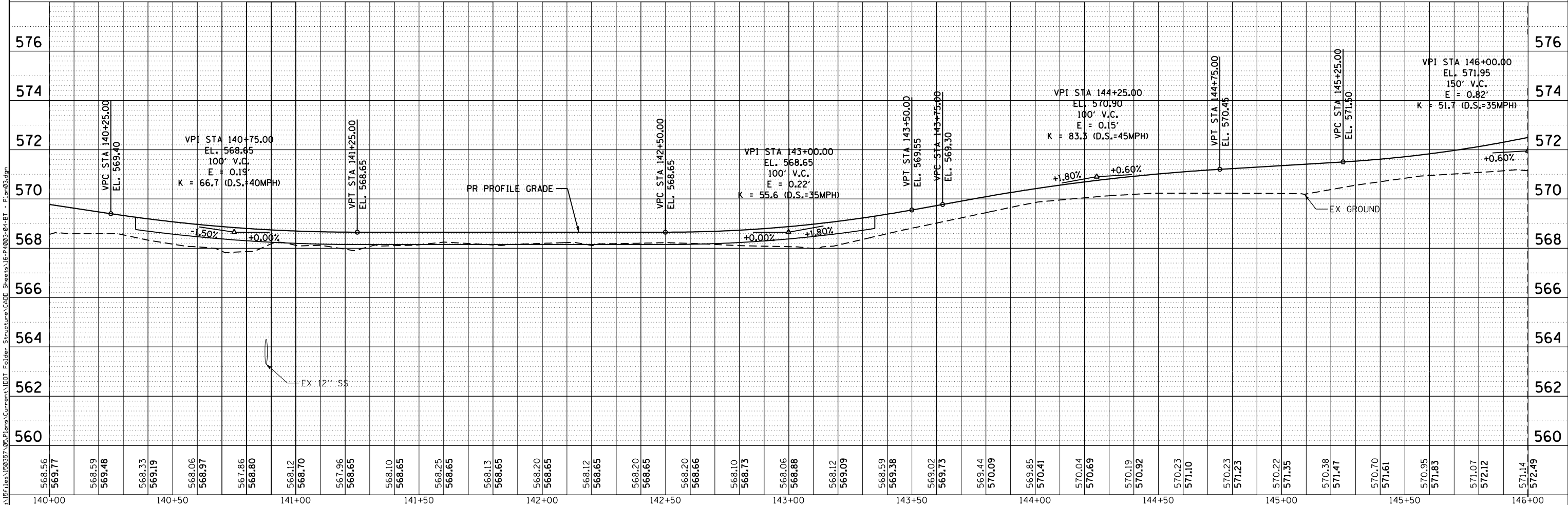
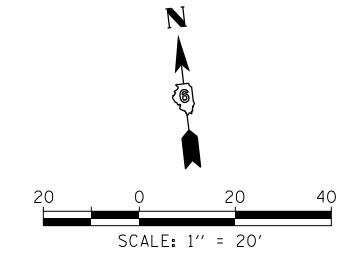
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	GRADES	
	CHECKED	
	BY	
	NO.	



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

DRIESELMAN PROPERTIES, LLC



**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217-223-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME = oms
DESIGNED -
DRAWN -
CHECKED -
DATE -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

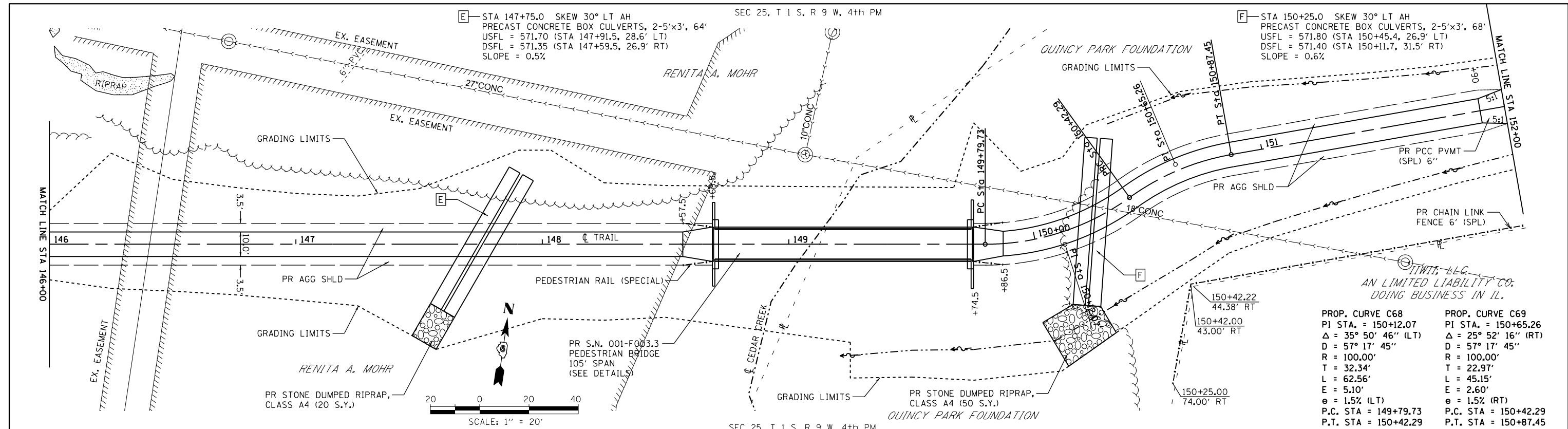
SCALE: 1"=20'	SHEET 3 OF 10 SHEETS	STA. 140+00 TO STA. 146+00
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<b>BILL KLINGNER TRAIL</b>		
<b>PLAN &amp; PROFILE</b>		
F.A.U. RTE.	SECTION	COUNTY
	16-P4003-04-BT	ADAMS
TOTAL SHEETS		122
SHEET NO.		20
CONTRACT NO. 93711		

ILLINOIS FED. AID PROJECT	
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DATE	BY
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	FILED
NO.	NO.
	NO.
	NO.

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

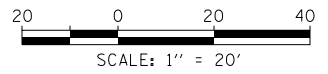


E - STA 147+75.0 SKEW 30° LT AH  
 PRECAST CONCRETE BOX CULVERTS, 2-5'x3', 64'  
 USFL = 571.70 (STA 147+91.5, 28.6' LT)  
 DSFL = 571.35 (STA 147+59.5, 26.9' RT)  
 SLOPE = 0.5%

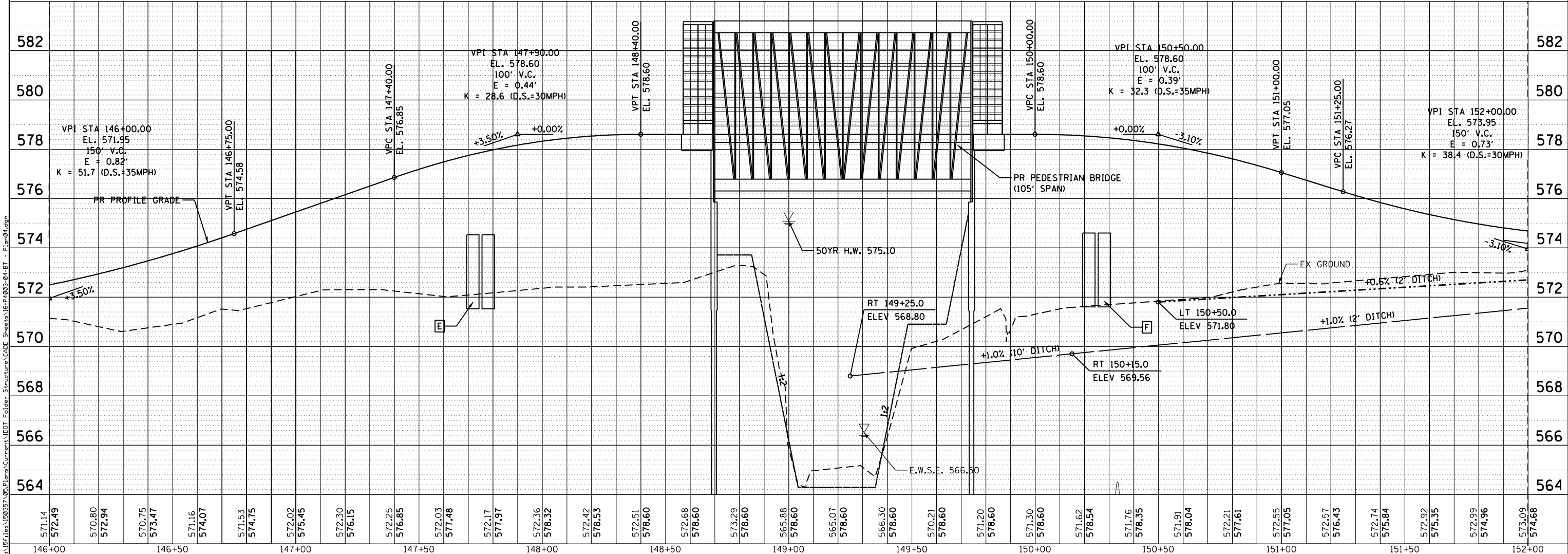
F - STA 150+25.0 SKEW 30° LT AH  
 PRECAST CONCRETE BOX CULVERTS, 2-5'x3', 68'  
 USFL = 571.80 (STA 150+45.4, 26.9' LT)  
 DSFL = 571.40 (STA 150+11.7, 31.5' RT)  
 SLOPE = 0.6%

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'  
 e = 1.5% (LT)  
 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'  
 e = 1.5% (RT)  
 P.C. STA = 150+42.29  
 P.T. STA = 150+87.45



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



VPI STA 147+90.00  
 EL. 578.60  
 100' V.C.  
 E = 0.44'  
 K = 28.6 (D.S.=30MPH)

VPI STA 150+50.00  
 EL. 578.60  
 100' V.C.  
 E = 0.39'  
 K = 32.3 (D.S.=35MPH)

VPI STA 152+00.00  
 EL. 575.95  
 150' V.C.  
 E = 0.73'  
 K = 38.4 (D.S.=30MPH)

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 N. 24TH ST., QUINCY, ILLINOIS 62301 217-223-8870  
 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME	= oms
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**BILL KLINGNER TRAIL  
 PLAN & PROFILE**

SCALE: 1"=20' SHEET 4 OF 10 SHEETS STA. 146+00 TO STA. 152+00

F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	21
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

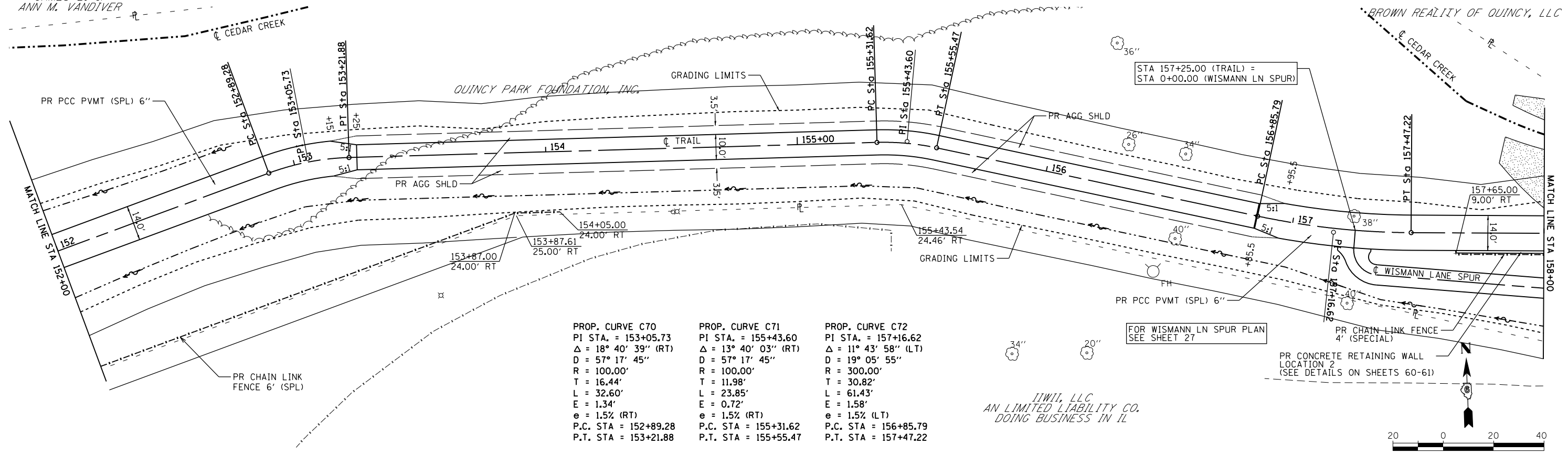
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JAMES B. & ANN M. VANDIVER BROWN REALTY OF QUINCY, LLC

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

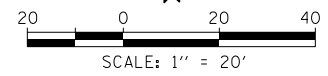
BROWN REALTY OF QUINCY, LLC

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILED	
NO.	



<b>PROP. CURVE C70</b> 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' e = 1.5% (RT) P.C. STA = 152+89.28 P.T. STA = 153+21.88	<b>PROP. CURVE C71</b> 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' e = 1.5% (RT) P.C. STA = 155+31.62 P.T. STA = 155+55.47	<b>PROP. CURVE C72</b> 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' e = 1.5% (LT) P.C. STA = 156+85.79 P.T. STA = 157+47.22
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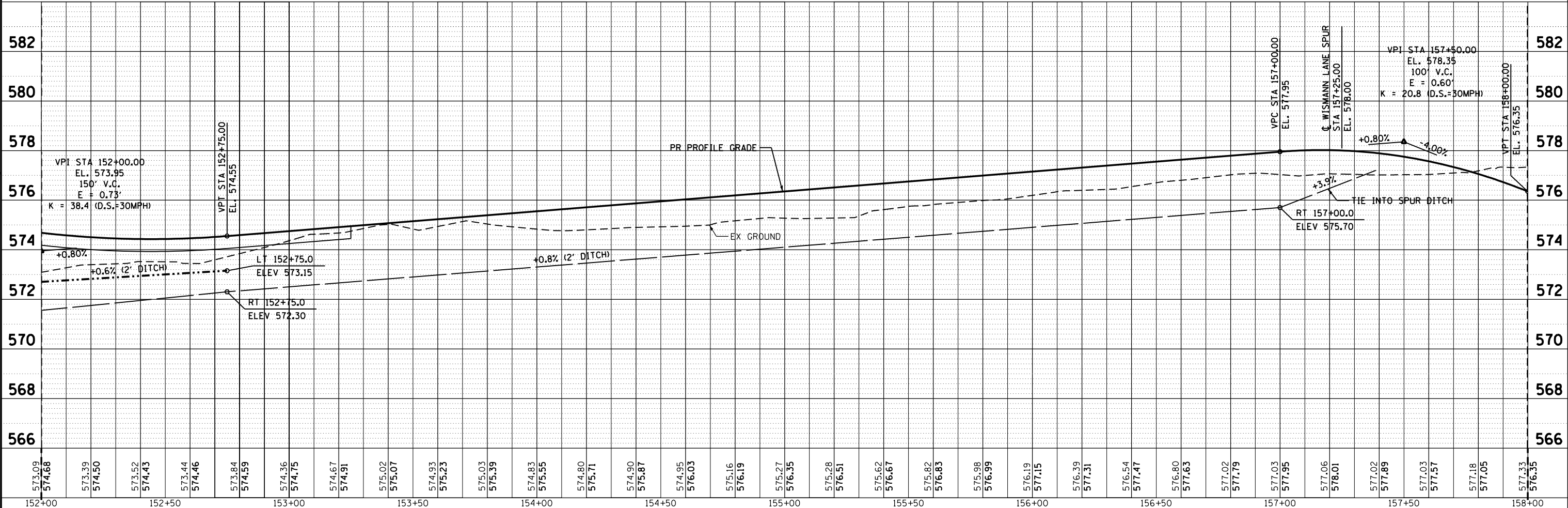
IIWII, LLC  
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SEC 25, T 1 S, R 9 W, 4th PM

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	

FILE NAME: G:\Projects\160957\05\Plans\CADD Sheets\16-P4003-04-BT - Plan\05.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	= oms
PLOT SCALE	= 40.0000' / in.
PLOT DATE	= 6/6/2018

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BILL KLINGNER TRAIL  
PLAN & PROFILE

SCALE: 1"=20' SHEET 5 OF 10 SHEETS STA. 152+00 TO STA. 158+00

F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	22
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

PR CONCRETE RETAINING WALL  
LOCATION 3  
(SEE DETAILS ON SHEETS 62-67)

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'  
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 60-61)  
PR PCC SIDEWALK, 4"

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'  
e = 1.5% (RT)  
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'  
e = 1.5% (RT)  
P.C. STA = 159+87.81  
P.T. STA = 160+35.16

PROP. CURVE C76  
PI STA. = 160+97.03  
Δ = 73° 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

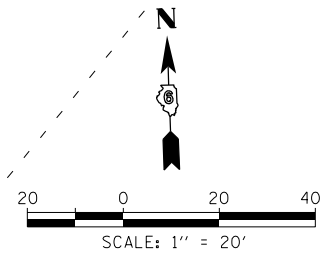
M STA 159+31.1 10.0' RT  
TRENCH DRAIN, 10'  
USFL = 570.55 (159+36.9, 9.9' RT)  
DSFL = 570.10 (159+26.1, 10.9' RT)

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FOR WISMANN LN SPUR PLAN  
SEE SHEET 27

FOR RAMP PLAN  
SEE SHEET 34

END IMPROVEMENTS  
STA 161+17.00



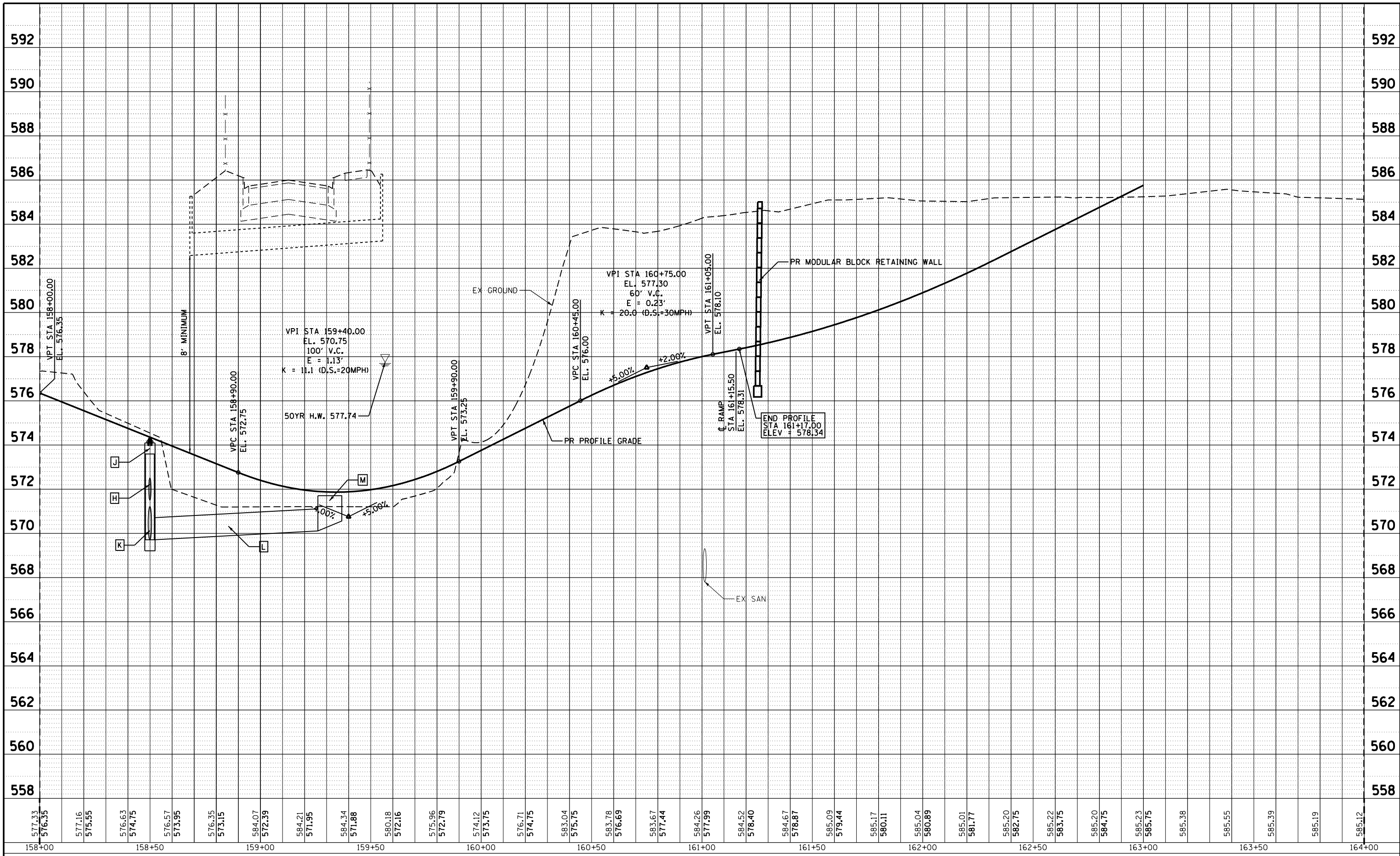
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PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	23
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = oms	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

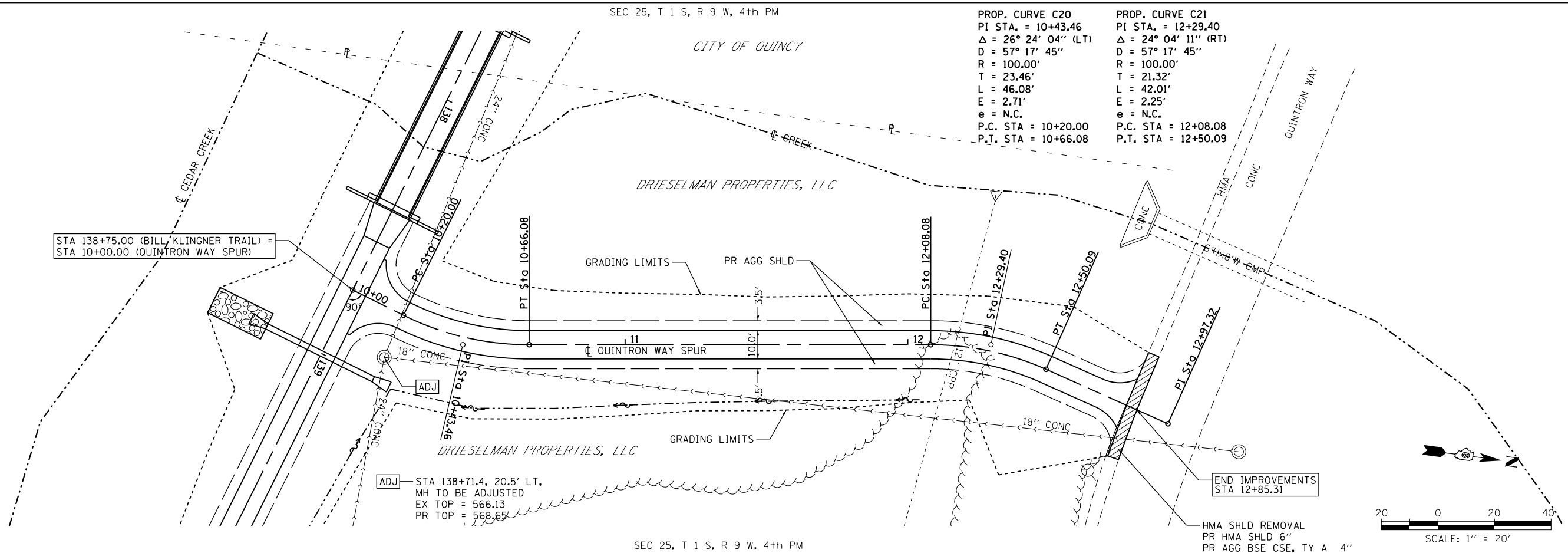
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	24
CONTRACT NO. 93711				ILLINOIS FED. AID PROJECT



PLAN	SURVEYED	BY	DATE
	PLOTTED		
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	NO.		

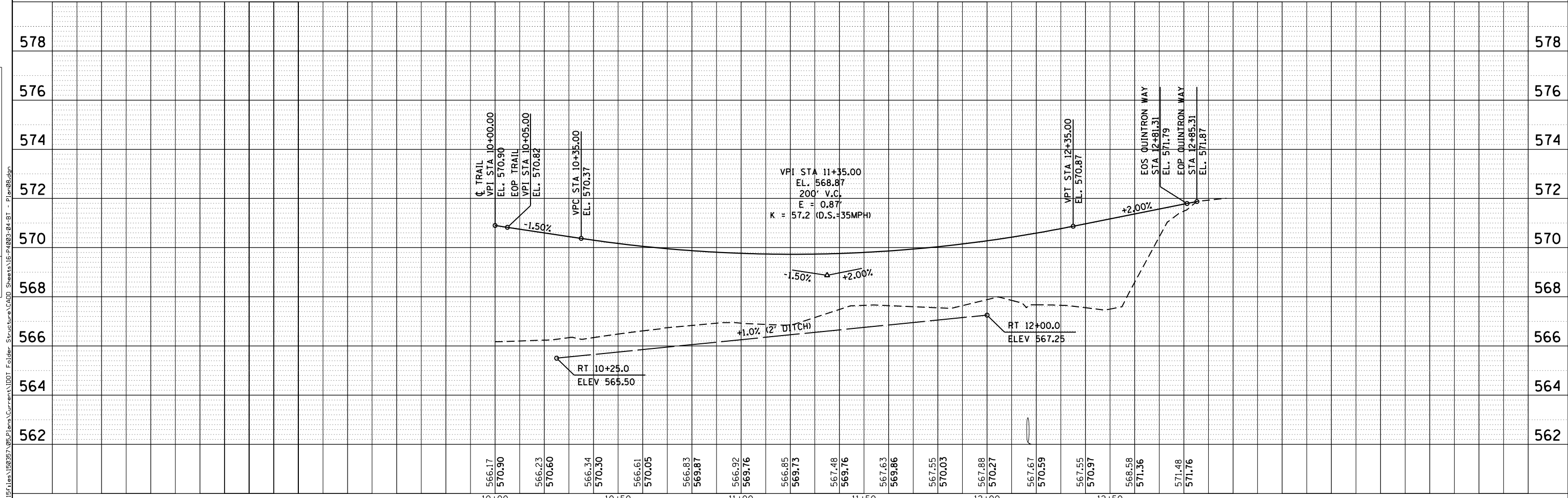
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	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		

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PROP. CURVE C20  
 PI STA. = 10+43.46  
 $\Delta = 26^\circ 24' 04''$  (LT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 23.46'$   
 $L = 46.08'$   
 $E = 2.71'$   
 $e = N.C.$   
 P.C. STA = 10+20.00  
 P.T. STA = 10+66.08

PROP. CURVE C21  
 PI STA. = 12+29.40  
 $\Delta = 24^\circ 04' 11''$  (RT)  
 $D = 57^\circ 17' 45''$   
 $R = 100.00'$   
 $T = 21.32'$   
 $L = 42.01'$   
 $E = 2.25'$   
 $e = N.C.$   
 P.C. STA = 12+08.08  
 P.T. STA = 12+50.09



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 Engineers • Architects • Surveyors  
 616 N. 24TH ST., QUINCY, ILLINOIS 62301-2123, 6870  
 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

USER NAME = oms  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 3/2/2018

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BILL KLINGNER TRAIL  
 PLAN & PROFILE

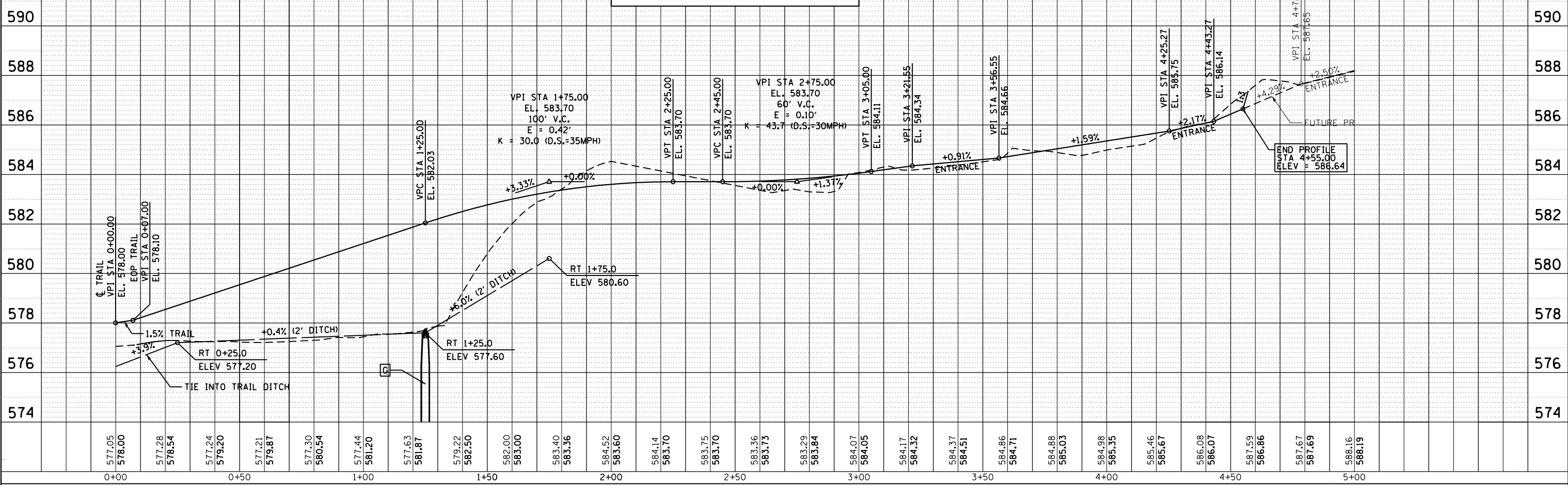
SCALE: 1"=20' SHEET 8 OF 10 SHEETS STA. 10+00 TO STA. 12+81

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	25
CONTRACT NO. 93711			ILLINOIS FED. AID PROJECT	

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

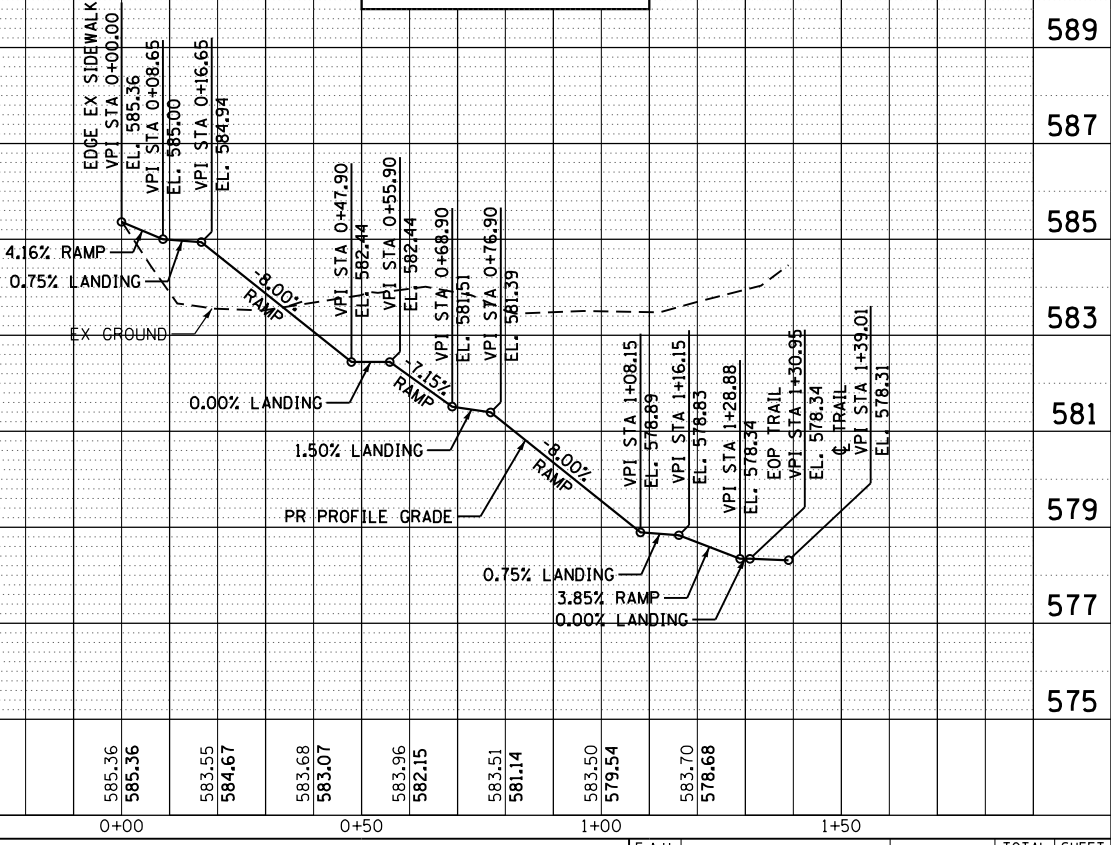
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

**WISMANN LANE SPUR PROFILE**



574	576	578	580	582	584	586	588	590		
0+00	0+50	1+00	1+50	2+00	2+50	3+00	3+50	4+00	4+50	5+00

**RAMP PROFILE**



575	577	579	581	583	585	587	589
0+00	0+50	1+00	1+50				

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 STATE OF ILLINOIS DESIGN FIRM NO. 194-2738

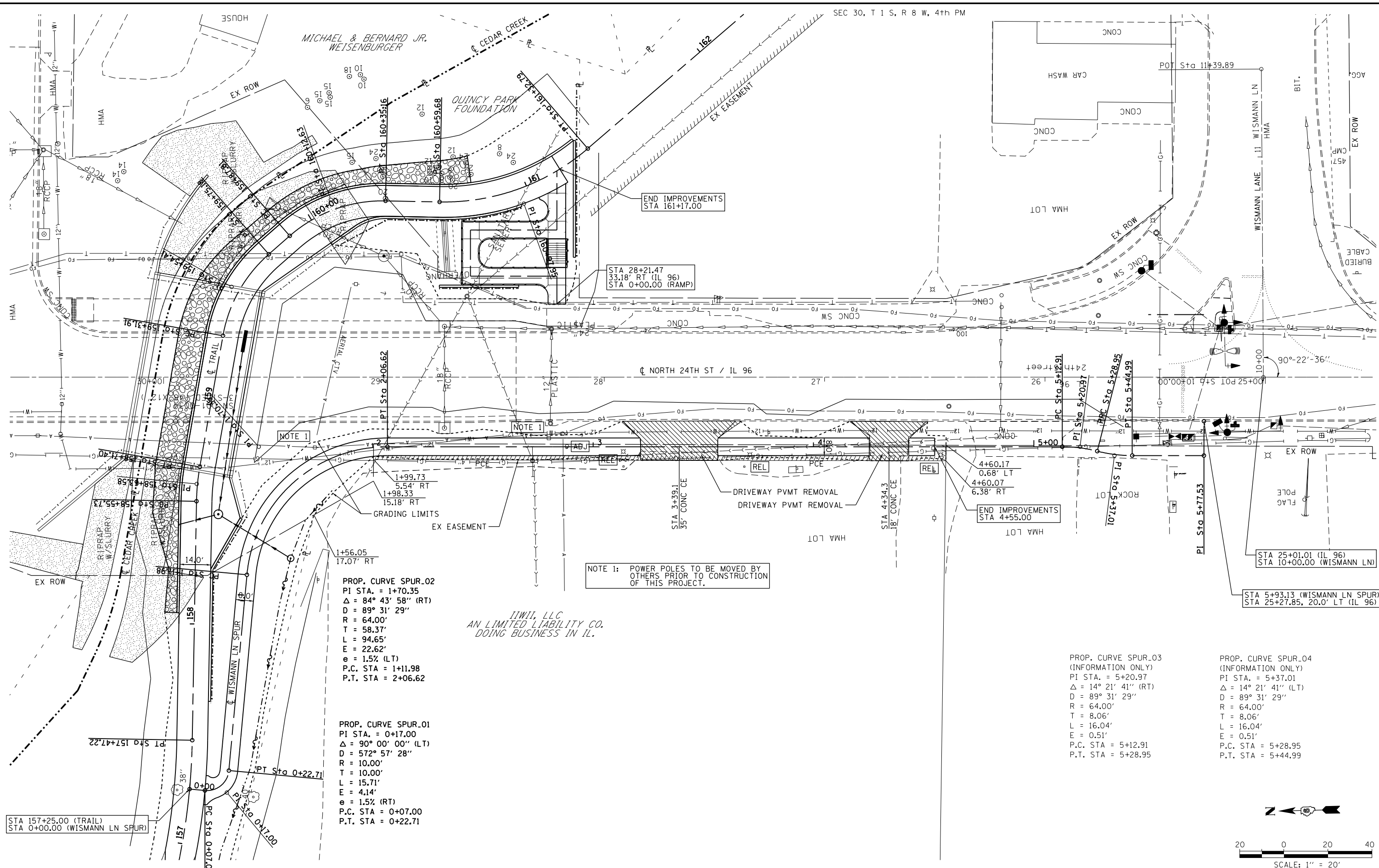
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PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL  
 PROFILE**

SCALE: 1"=20' SHEET 9 OF 10 SHEETS STA. 158+00 TO STA. 161+10

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	26
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				



PROP. CURVE SPUR\_02  
 PI STA. = 1+70.35  
 $\Delta = 84^\circ 43' 58''$  (RT)  
 $D = 89^\circ 31' 29''$   
 $R = 64.00'$   
 $T = 58.37'$   
 $L = 94.65'$   
 $E = 22.62'$   
 $e = 1.5\%$  (LT)  
 P.C. STA = 1+11.98  
 P.T. STA = 2+06.62

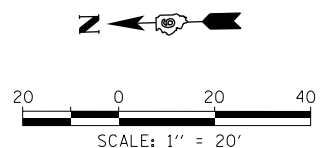
PROP. CURVE SPUR\_01  
 PI STA. = 0+17.00  
 $\Delta = 90^\circ 00' 00''$  (LT)  
 $D = 572^\circ 57' 28''$   
 $R = 10.00'$   
 $T = 10.00'$   
 $L = 15.71'$   
 $E = 4.14'$   
 $e = 1.5\%$  (RT)  
 P.C. STA = 0+07.00  
 P.T. STA = 0+22.71

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

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PROP. CURVE SPUR\_03  
 (INFORMATION ONLY)  
 PI STA. = 5+20.97  
 $\Delta = 14^\circ 21' 41''$  (RT)  
 $D = 89^\circ 31' 29''$   
 $R = 64.00'$   
 $T = 8.06'$   
 $L = 16.04'$   
 $E = 0.51'$   
 P.C. STA = 5+12.91  
 P.T. STA = 5+28.95

PROP. CURVE SPUR\_04  
 (INFORMATION ONLY)  
 PI STA. = 5+37.01  
 $\Delta = 14^\circ 21' 41''$  (LT)  
 $D = 89^\circ 31' 29''$   
 $R = 64.00'$   
 $T = 8.06'$   
 $L = 16.04'$   
 $E = 0.51'$   
 P.C. STA = 5+28.95  
 P.T. STA = 5+44.99



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

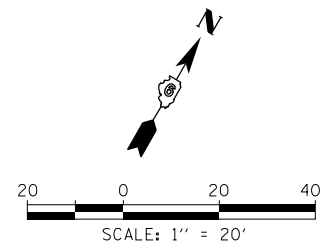
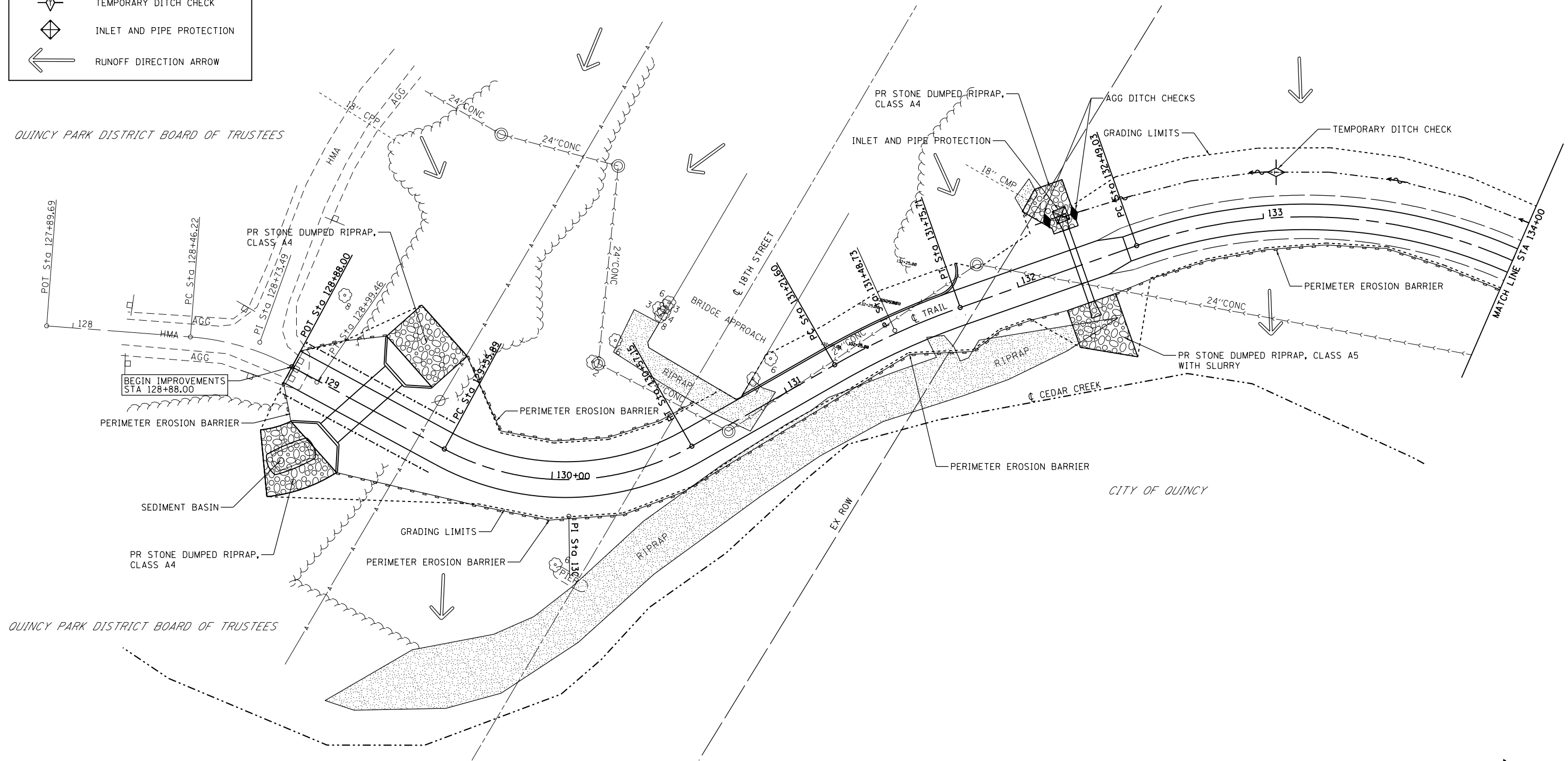
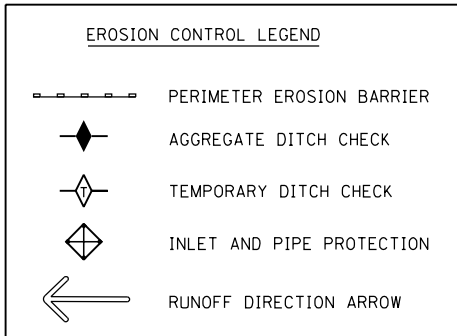
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PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BILL KLINGNER TRAIL  
 PLAN

SCALE: 1"=20' SHEET 10 OF 10 SHEETS STA. 158+00 TO STA. 161+17

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	27
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

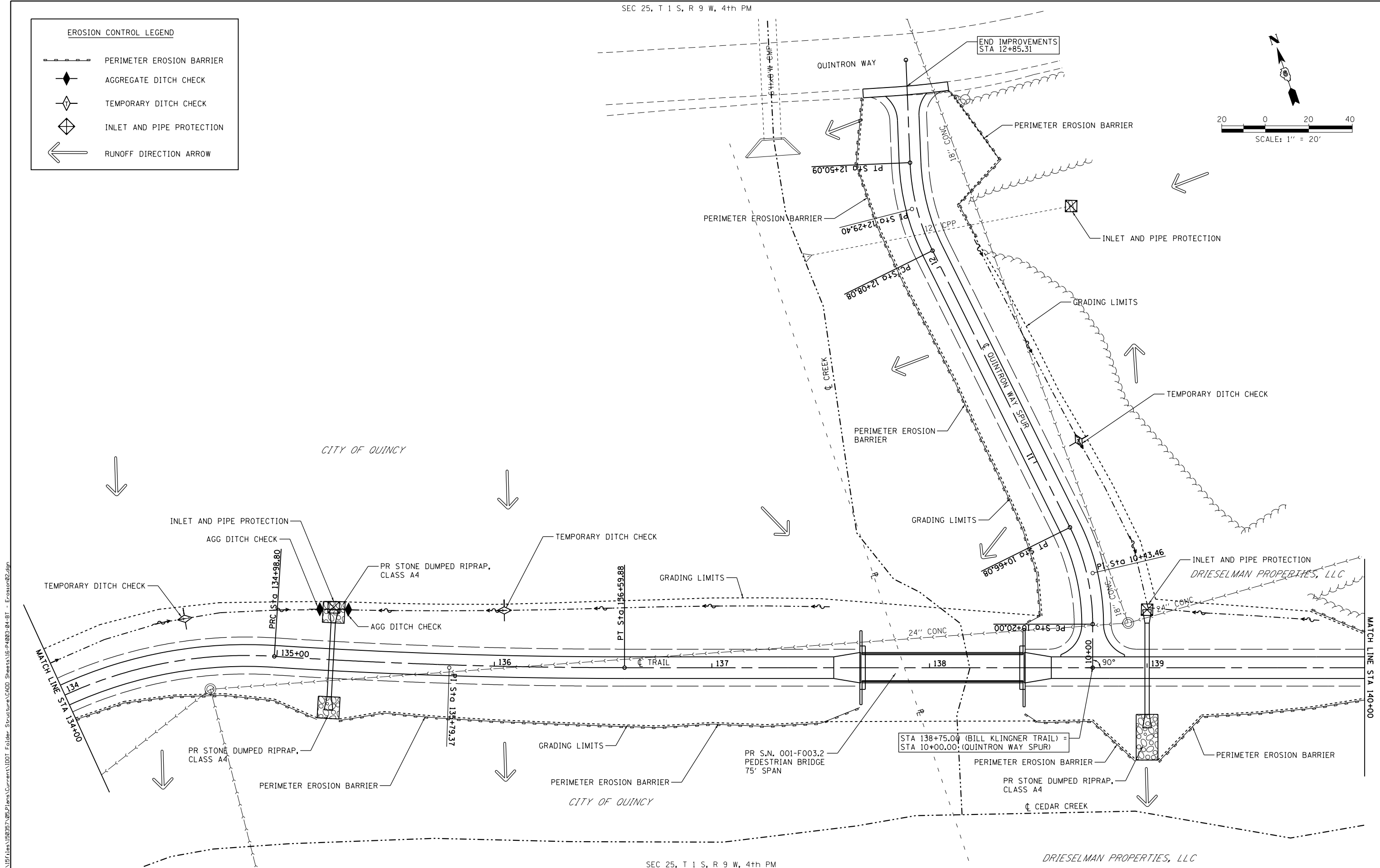
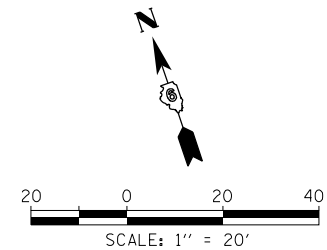
**BILL KLINGNER TRAIL  
 STORMWATER POLLUTION PREVENTION PLAN**

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	122	28
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



FILE NAME = D:\15\150955\05\15\150955\15-P4003-04-BT - Erosion02.dgn

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 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-2670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
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PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

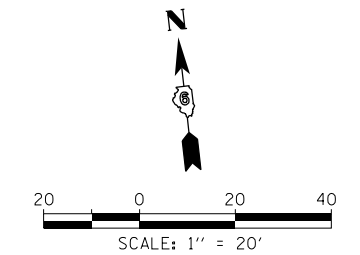
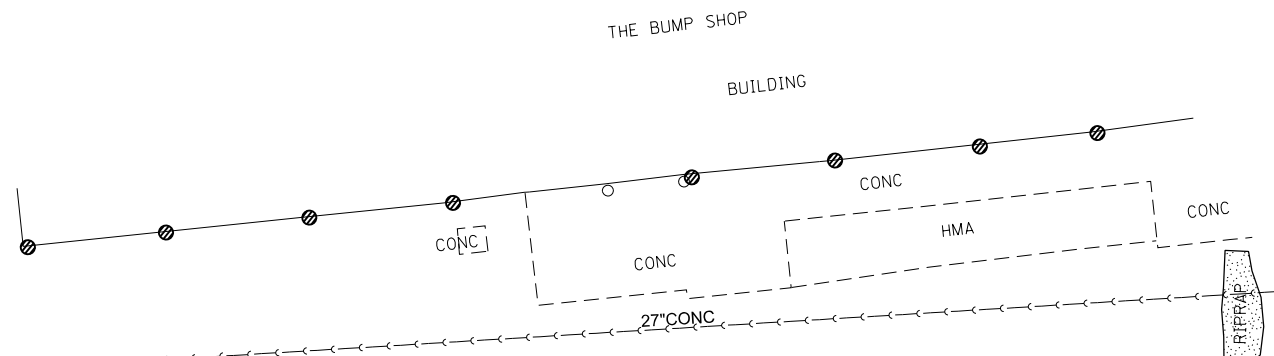
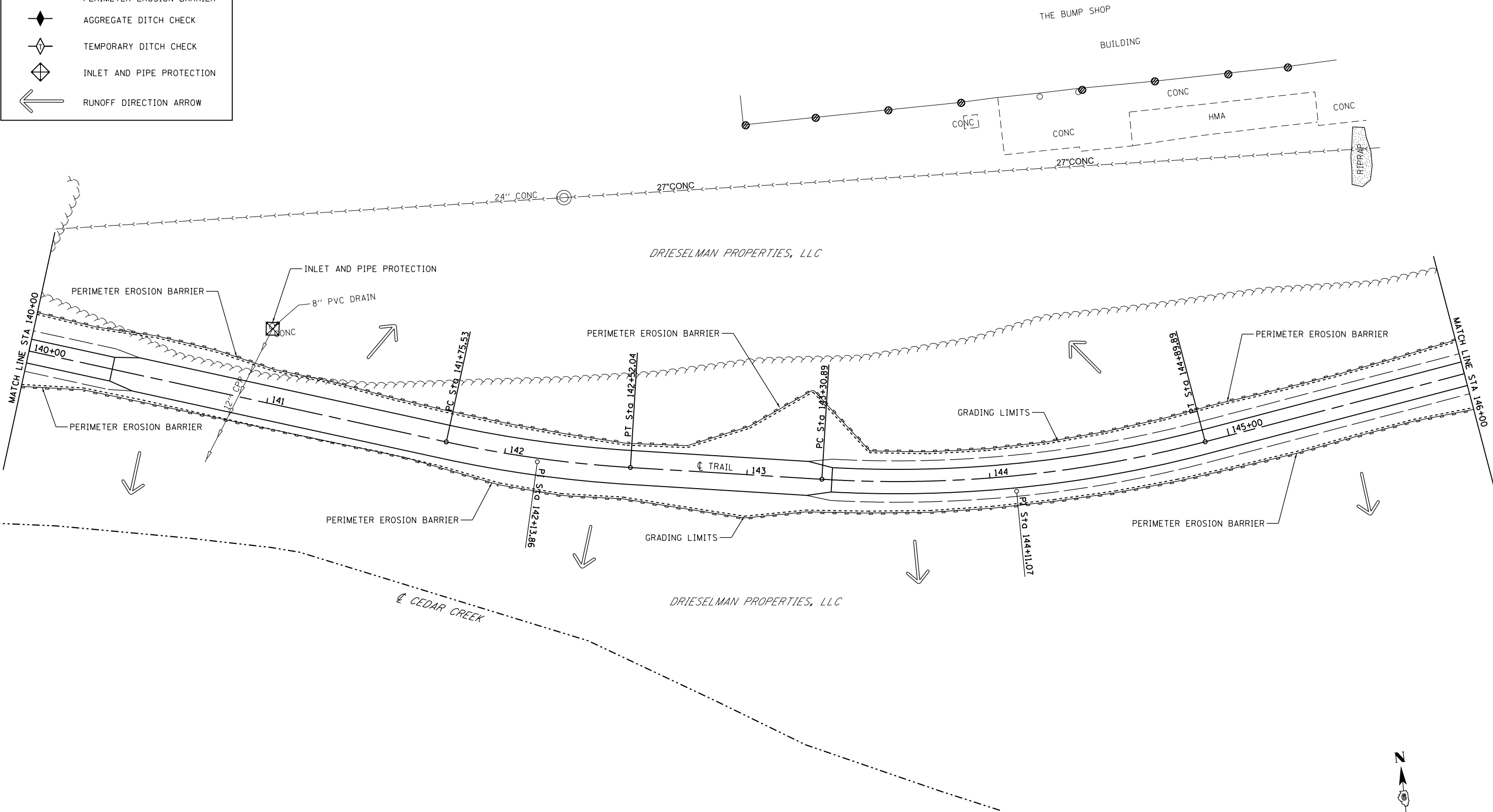
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**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	122	29
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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 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

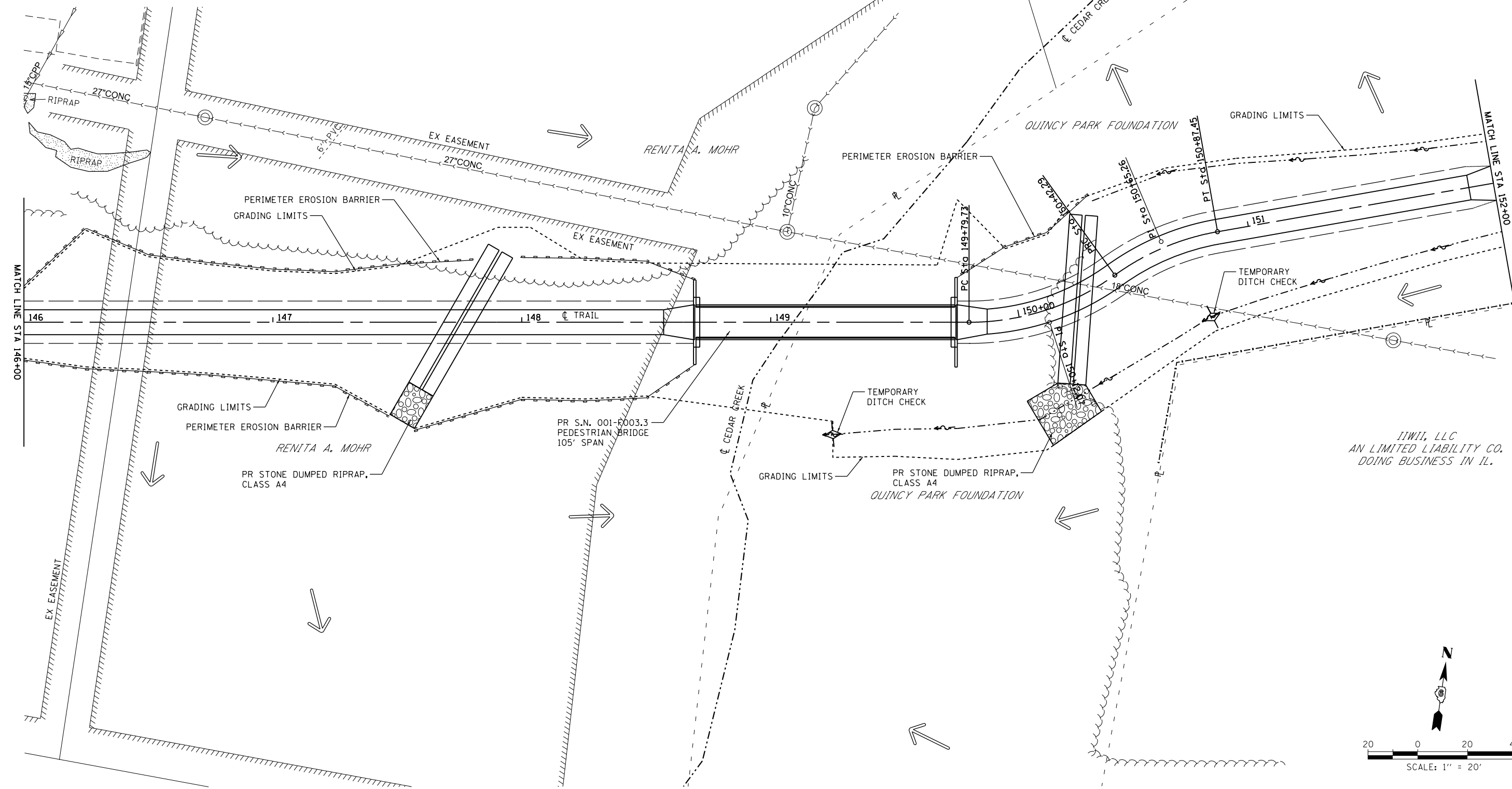
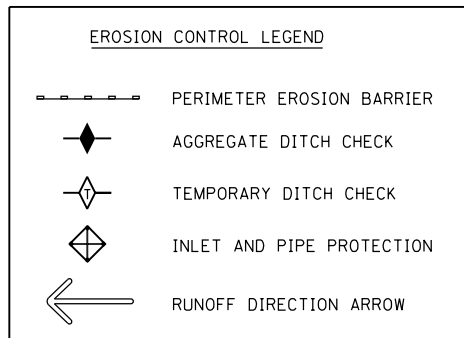
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

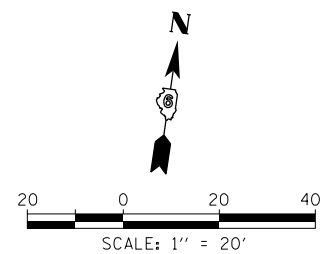
**BILL KLINGNER TRAIL  
 STORMWATER POLLUTION PREVENTION PLAN**

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	122	30
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



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616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-3670  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
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PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

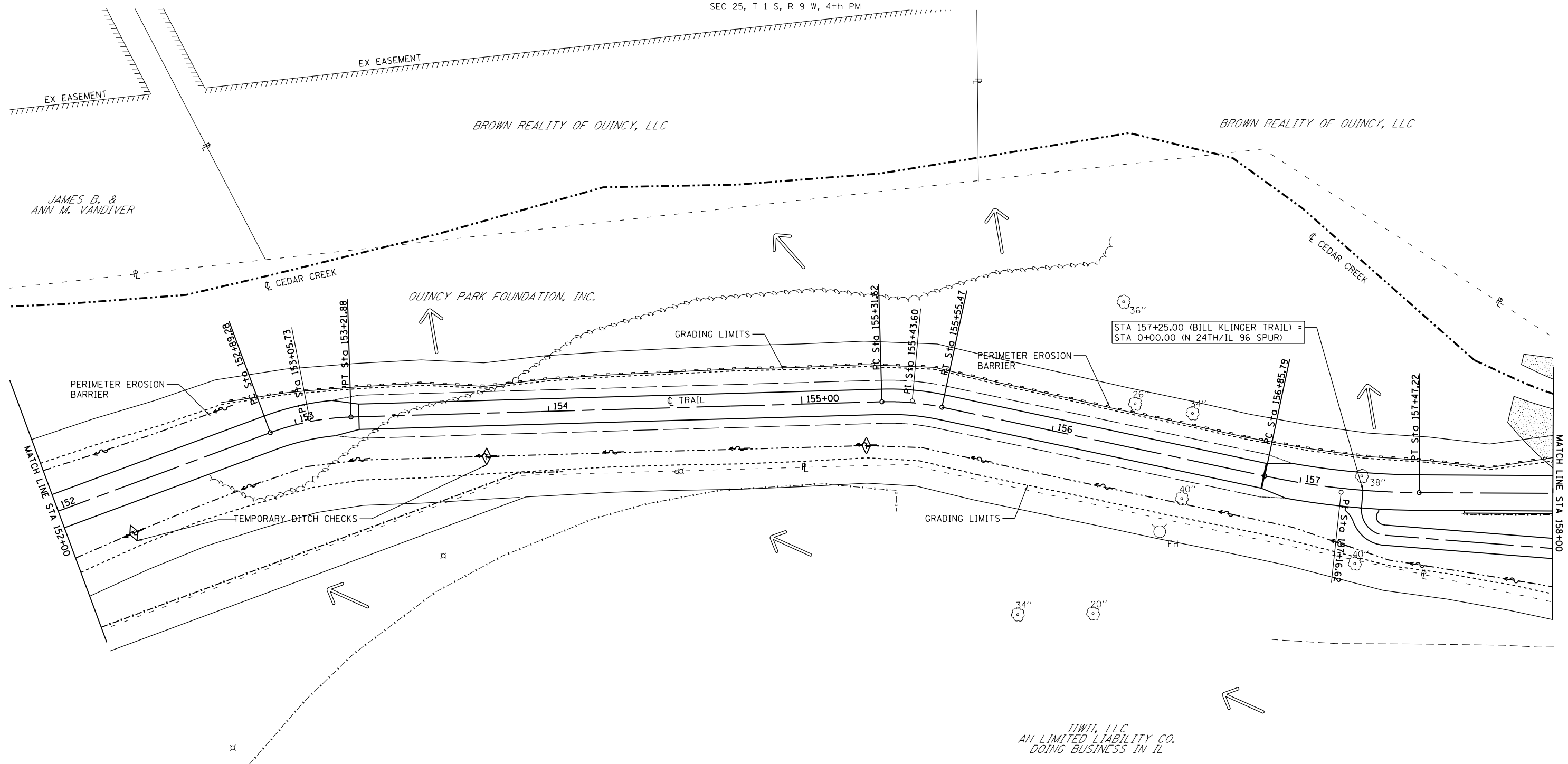
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL**  
**STORMWATER POLLUTION AND PREVENTION PLAN**

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

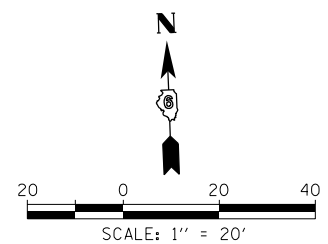
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	16-P4003-04-BT	ADAMS	122	31
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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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 = oms	DESIGNED -	REVISED -
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PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

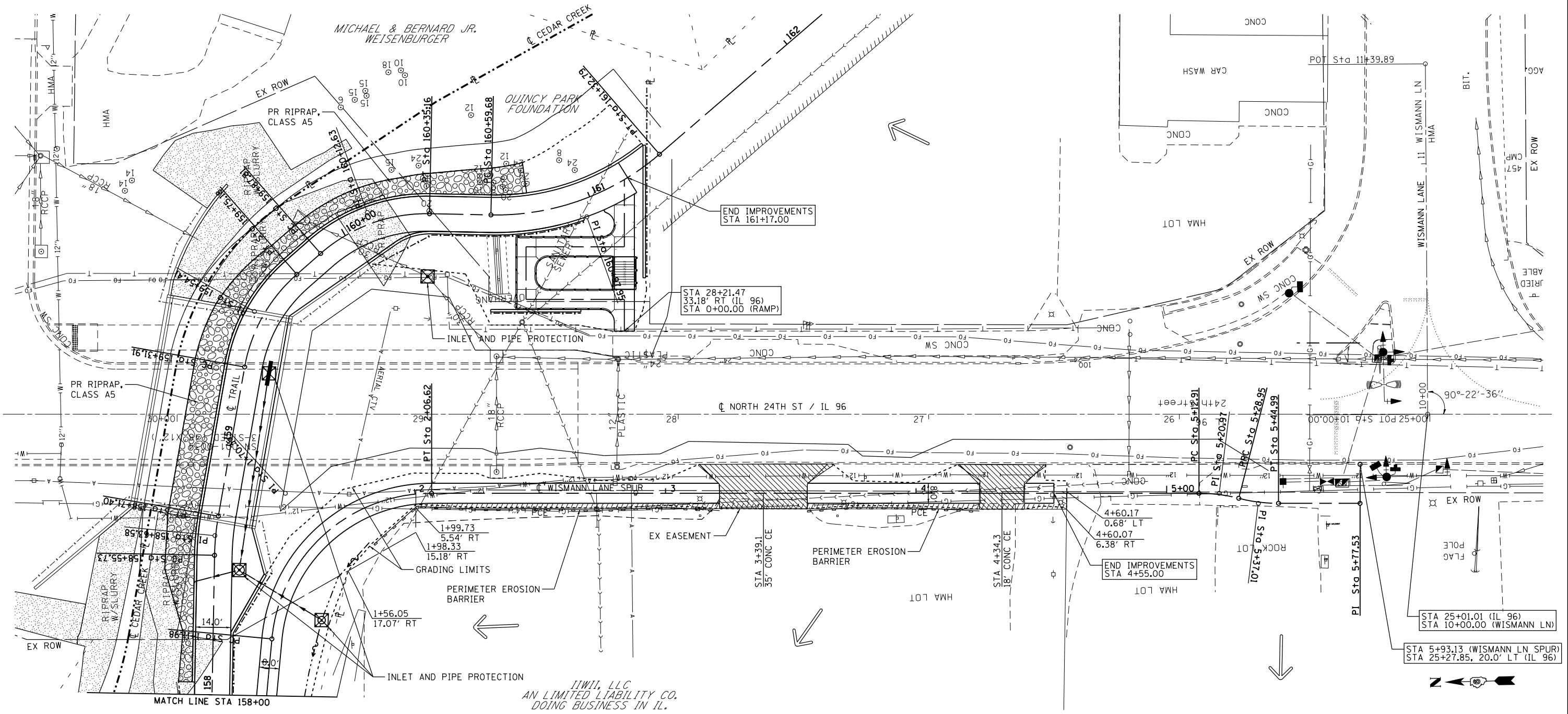
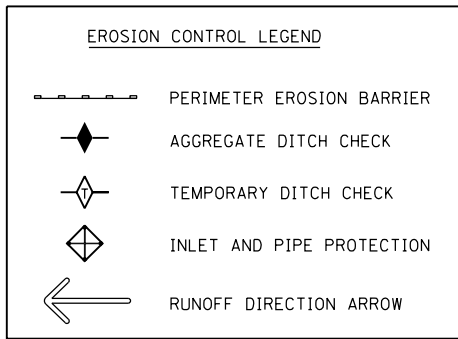
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BILL KLINGNER TRAIL STORMWATER POLLUTION PREVENTION PLAN</b>			
SCALE: 1"=20'	SHEET 5	OF 6 SHEETS	STA. 152+00 TO STA. 158+00

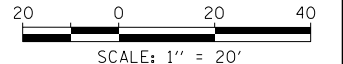
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	32
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL  
STORMWATER POLLUTION PREVENTION PLAN**

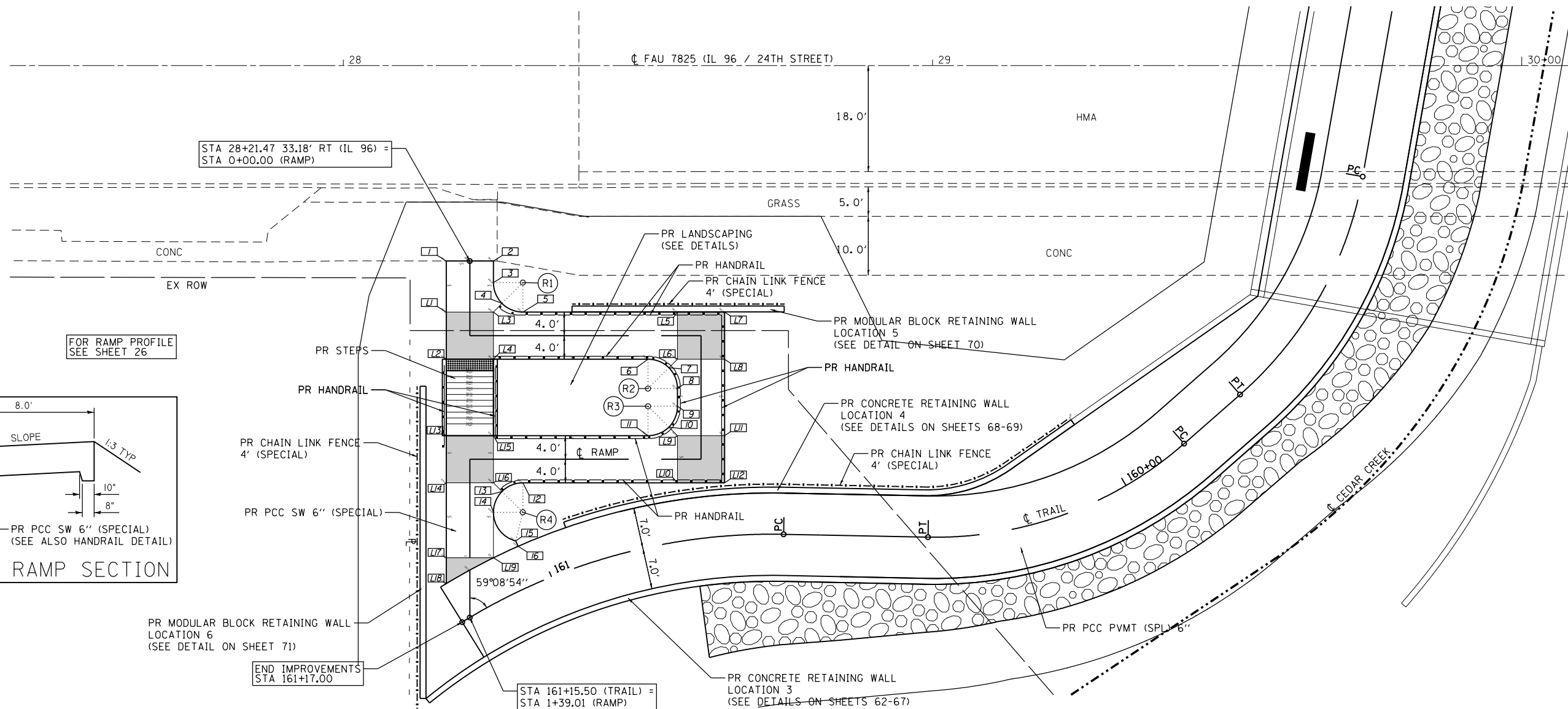
SCALE: 1"=20' SHEET 6 OF 6 SHEETS STA. 158+00 TO STA. 161+17

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	33
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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**LEGEND**

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



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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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

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

FILE NAME = D:\Projects\160953\06\Plan\Current\1601 - Geometric Details.dgn

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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	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	122	34
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

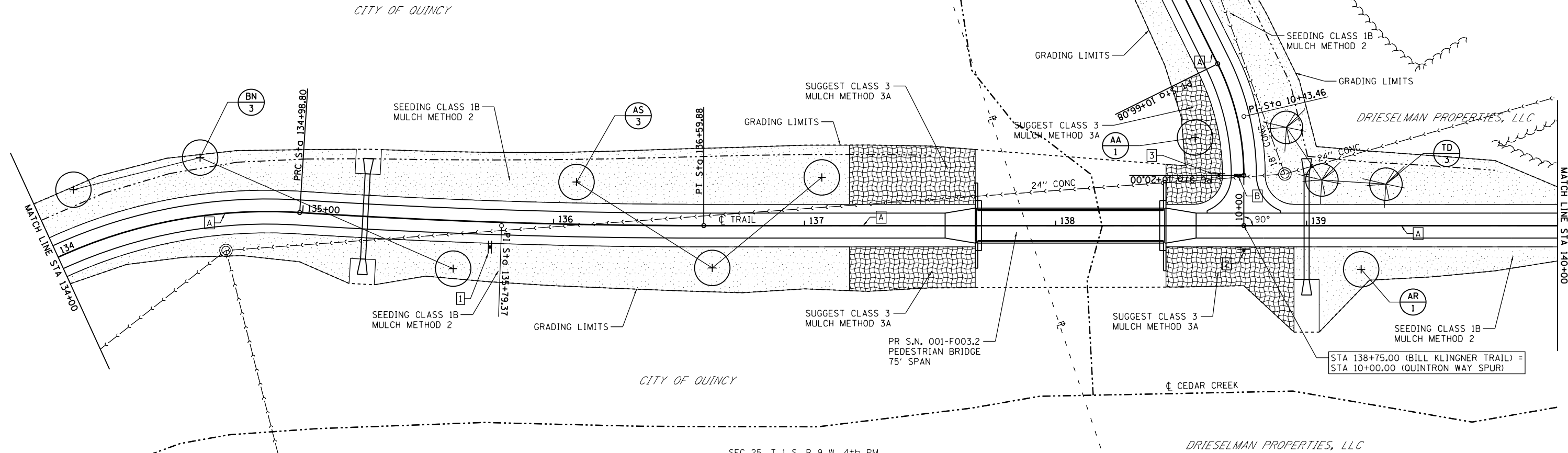
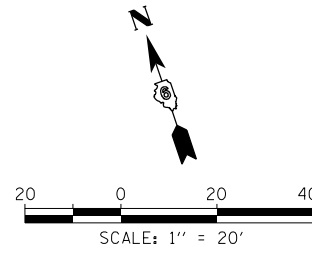
- A PAINT PAVEMENT MARKING - LINE 4" SOLID, YELLOW
- B PAINT PAVEMENT MARKING - LINE 24" SOLID, WHITE

**SIGNAGE LEGEND**

- 1 STA 135+75 10' RT (TRAIL) STREET SIGN (24"x6") - "NORTH 19th STREET" (SEE MISCELLANEOUS DETAILS)
- 2 STA 138+75 10' RT (TRAIL) RECREATIONAL SIGN 1 (70"x36") - FACING NORTH RECREATIONAL SIGN 2 (70"x12") - FACING NORTH (SEE MISCELLANEOUS DETAILS)
- 3 STA 10+20 10' LT (QUINTRON WAY SPUR) R1-1 (18"x18") - "STOP" - FACING NORTH
- 4 STA 12+72 10' RT (QUINTRON WAY SPUR) R1-1 (18"x18") - "STOP" - FACING SOUTH
- 5 STA 12+72 10' LT (QUINTRON WAY SPUR) R5-3 (24"x24") - "NO MOTORIZED VEHICLES" - FACING NORTH

8' DIA. MULCH RING AROUND ALL TREES TYP.

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
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 FOLLAGE
BN	BETULIA NIGRA "HERITAGE"	RIVER BIRCH	40'-70'	40'-60'	2 1/2" CAL.	3	AS SHOWN	ORNAMENTAL BARK
CC	CERCIS CANADENSIS	EASTERN REDBUD	20'-30'	25'-35'	1 1/2" CAL.	2	AS SHOWN	REDDISH PURPLE BUD
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 = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BILL KLINGNER TRAIL  
 LANDSCAPING, SIGNAGE, AND STRIPING 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	122	36
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

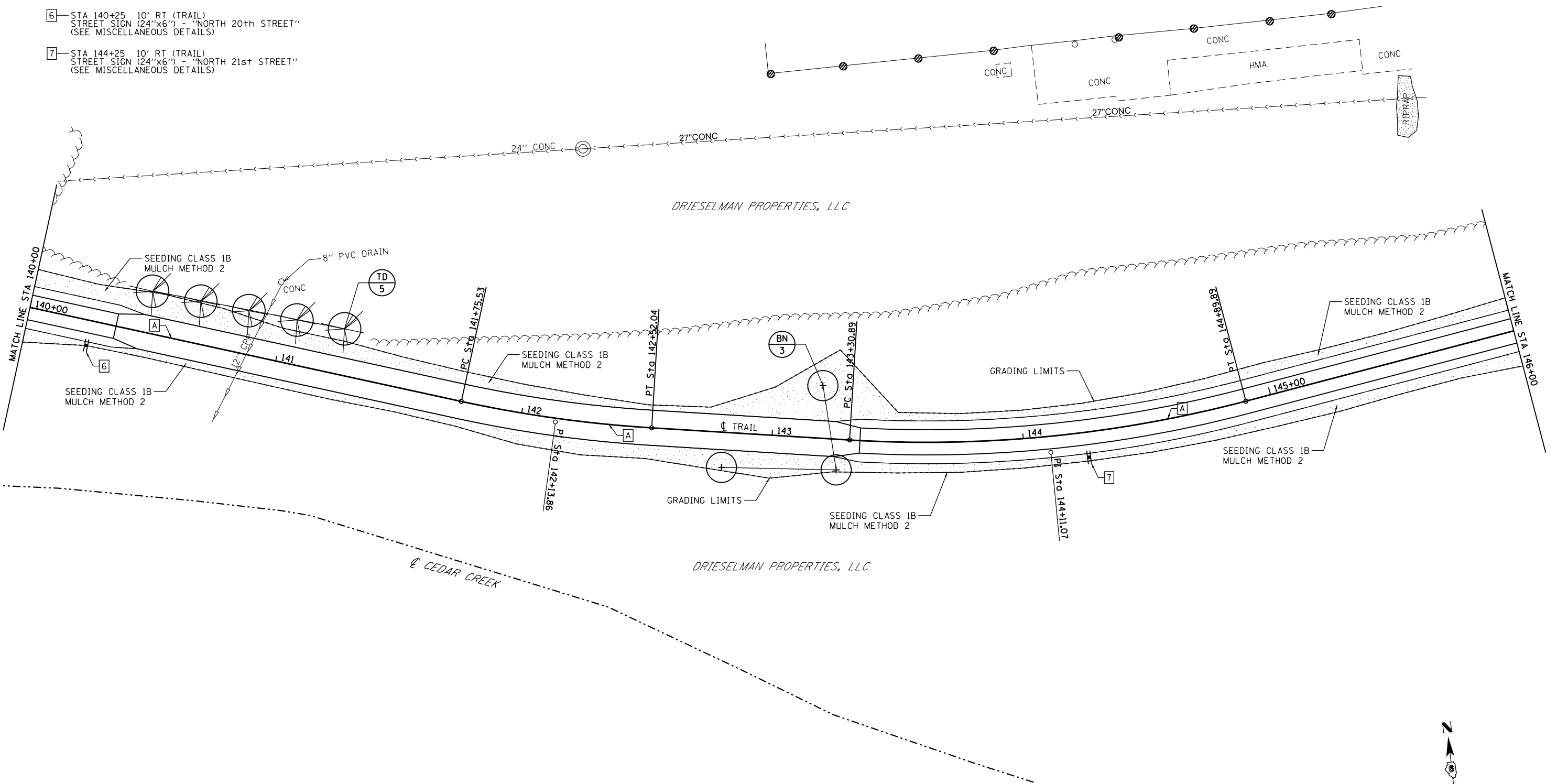
**PAVEMENT MARKING LEGEND**

A PAINT PAVEMENT MARKING - LINE 4" SOLID, YELLOW

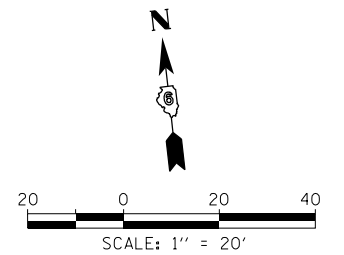
**SIGNAGE LEGEND**

- 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)

THE BUMP SHOP BUILDING



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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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	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	122	37
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

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8' DIA. MULCH RING AROUND ALL TREES TYP.

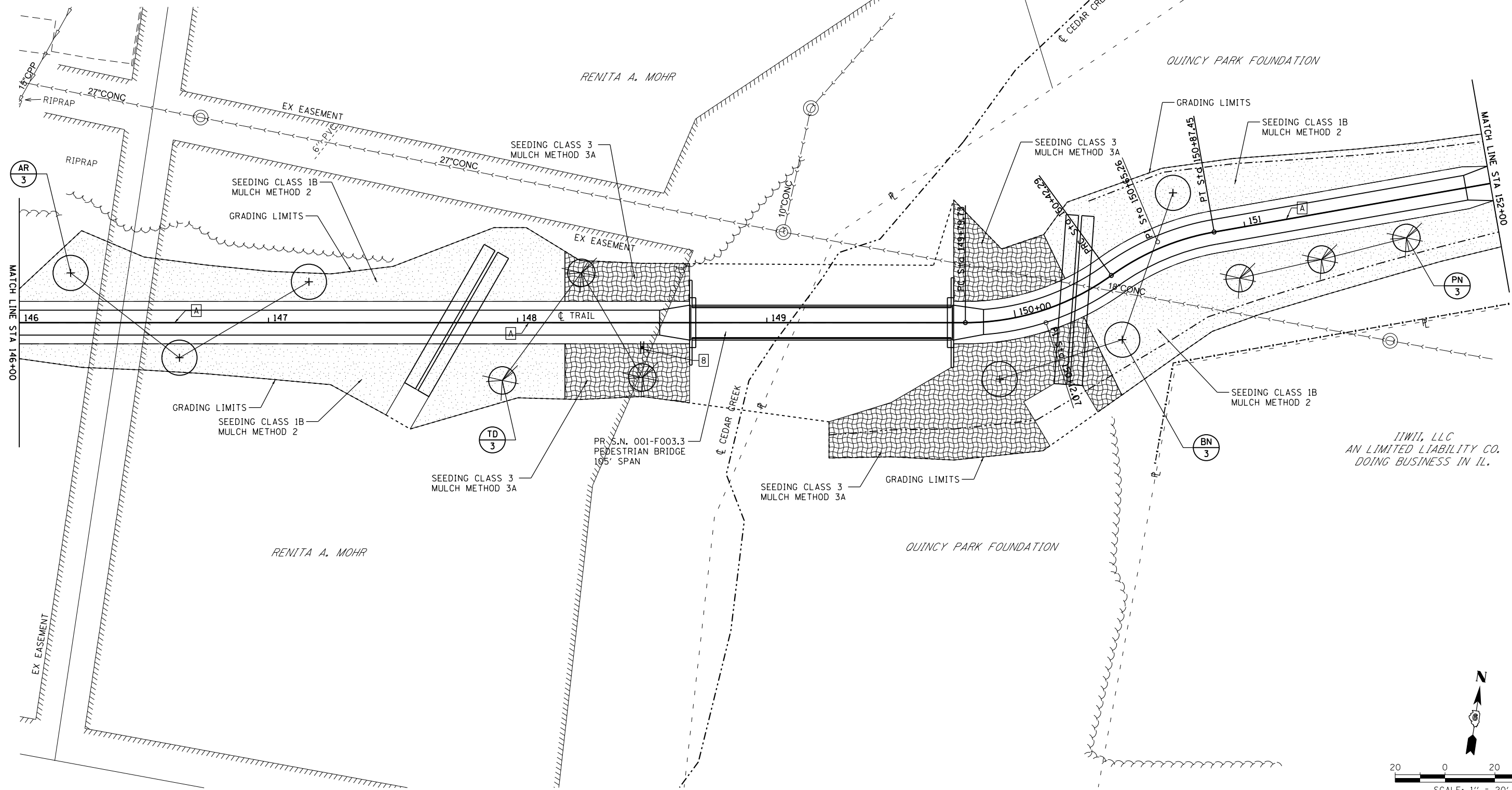
MARK	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	PLANTING SIZE	QUANTITY	SPACING	REMARKS
AR	ACER RUBRUM "OCTOBER GLORY"	RED MAPLE	40'-50'	30'-40'	2 1/2" CAL.	3	AS SHOWN	RED FALL COLOR
BN	BETULIA NIGRA "HERITAGE"	RIVER BIRCH	40'-70'	40'-60'	2 1/2" CAL.	3	AS SHOWN	ORNAMENTAL BARK
PN	PICEA ABIES	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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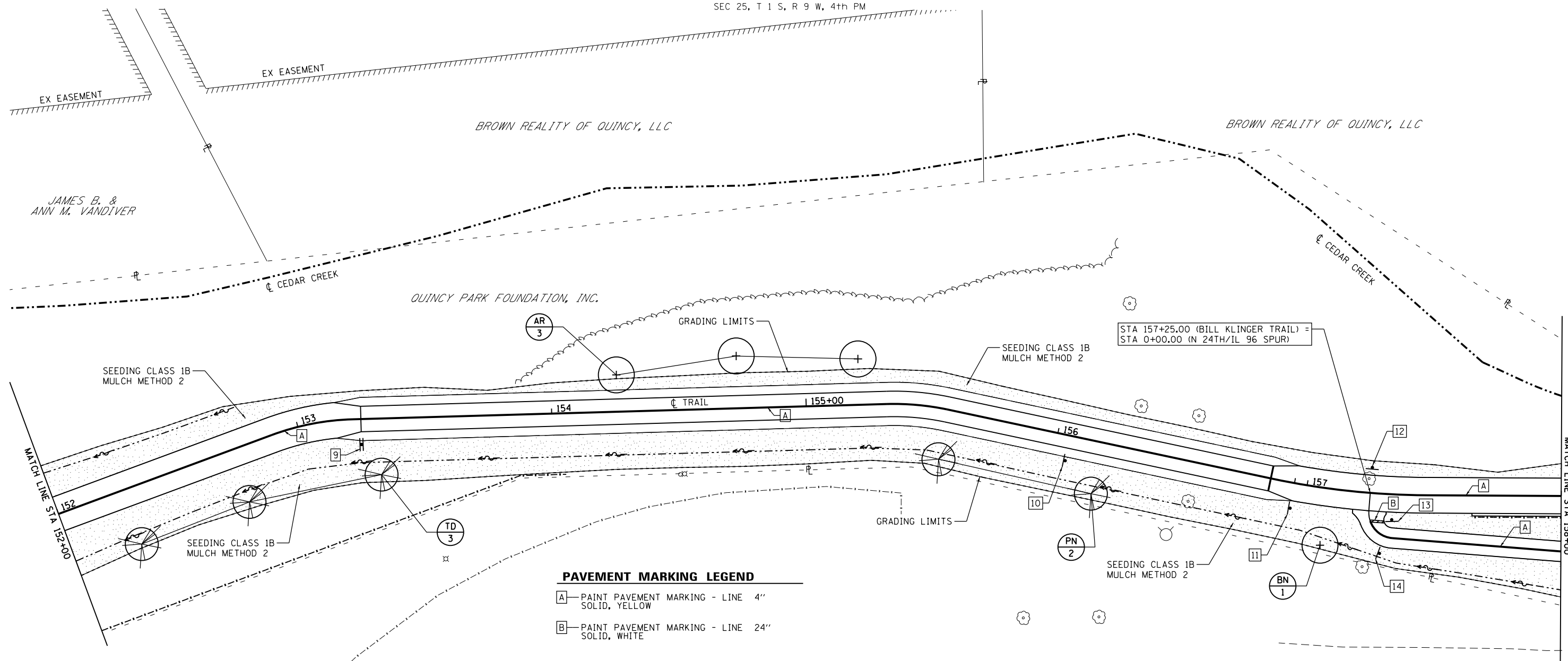
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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	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	122	38
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

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

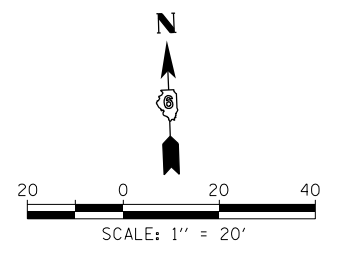
**SIGNAGE LEGEND**

- [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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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 = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	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	122	39
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

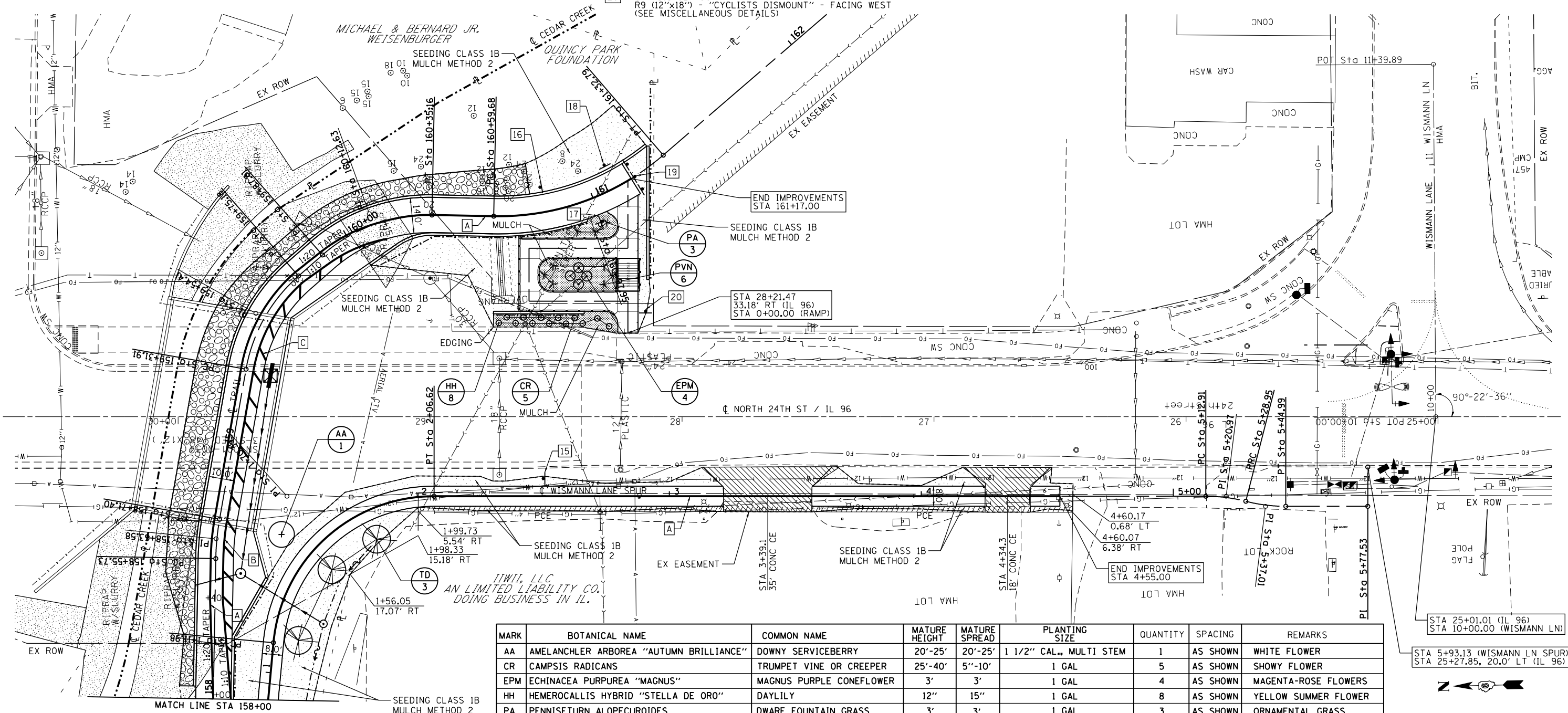
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**PAVEMENT MARKING LEGEND**

- 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)

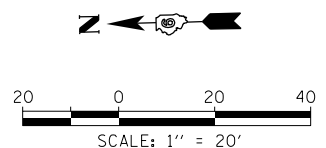
**SIGNAGE LEGEND**

- 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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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/10/2018	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	122	40
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



9:49:56 AM  
3/2/2018

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 I13
	W. Abut.	E. Abut.	
Q100	559.3	559.7	8
Q200	559.3	559.7	
Design	563.9	563.9	
Check	563.9	563.9	

**WATERWAY INFORMATION**

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

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			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	200	1,350	-	298	565.8	-	0.5	-	566.3
Max. Calc.	>500	-	-	-	-	-	-	-	-
	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

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

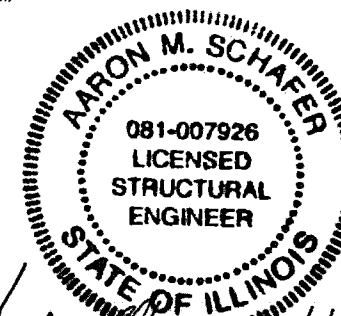
**DESIGN SPECIFICATIONS**

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

**SEISMIC DATA**

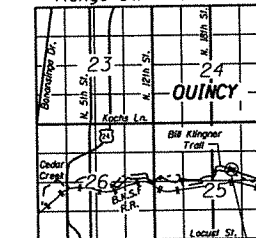
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_w$ ) = 0.083g  
Design Spectral Acceleration at 0.2 sec. ( $S_w$ ) = 0.134g  
Soil Site Class = C



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

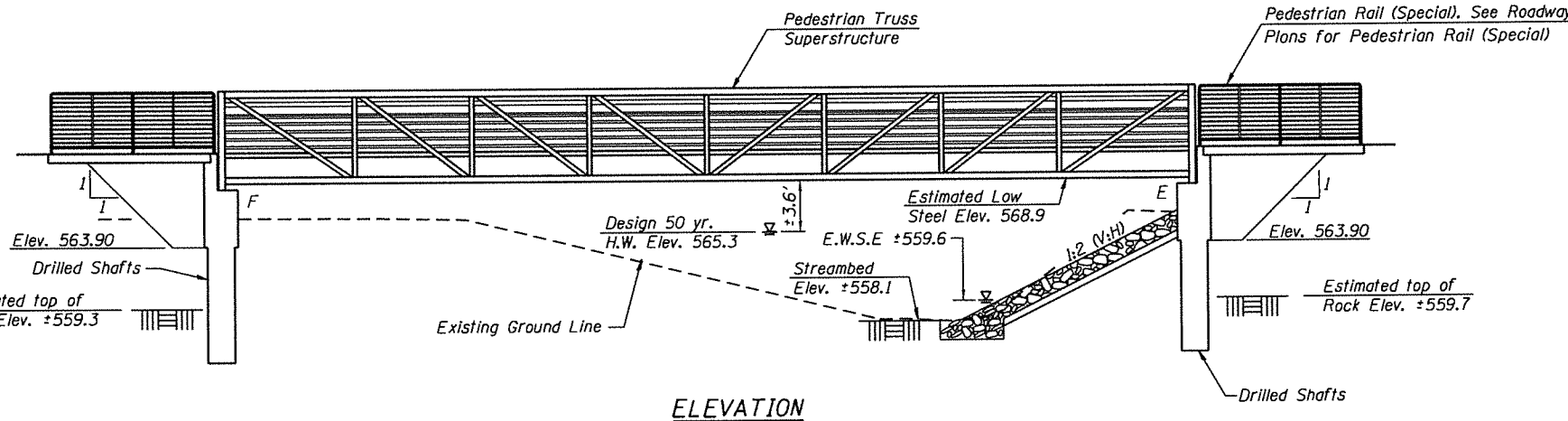
I certify that to the best of my knowledge,  
information and belief, this bridge design is  
structurally adequate for the design loading  
shown on the plans. The design is an  
economical one for the style of structure  
and complies with requirements of the current  
"AASHTO LRFD Specifications for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

Range 9W - 4th. PM

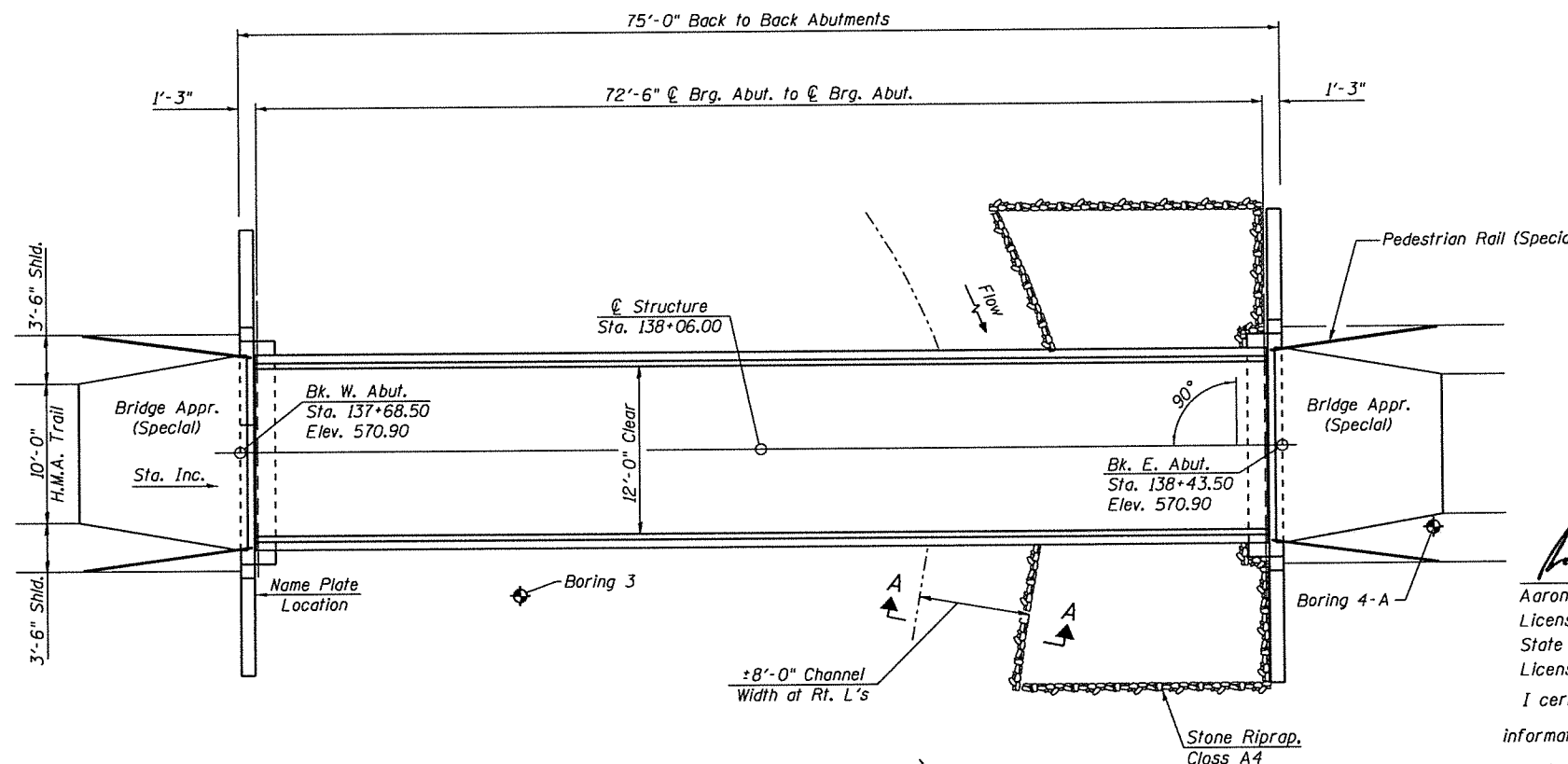


Proposed structure  
**LOCATION SKETCH**

**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**



**ELEVATION**



**PLAN**

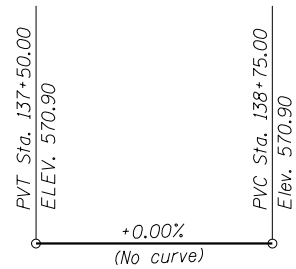
**KLINGNER & ASSOCIATES, P.C.**  
Engineers • Architects • Surveyors

USER NAME = oms	DESIGNED - AMS	REVISED -
	CHECKED - RJP	REVISED -
PLOT SCALE = 24.9995' / 1"	DRAWN - AMS	REVISED -
PLOT DATE = 3/2/2018	CHECKED - RJP	REVISED -

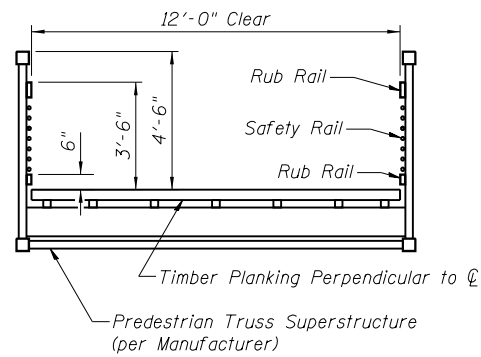
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

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

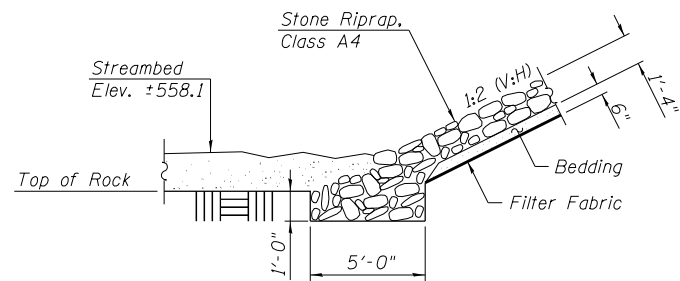
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	41
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				
Klingner & Associates P.C.				



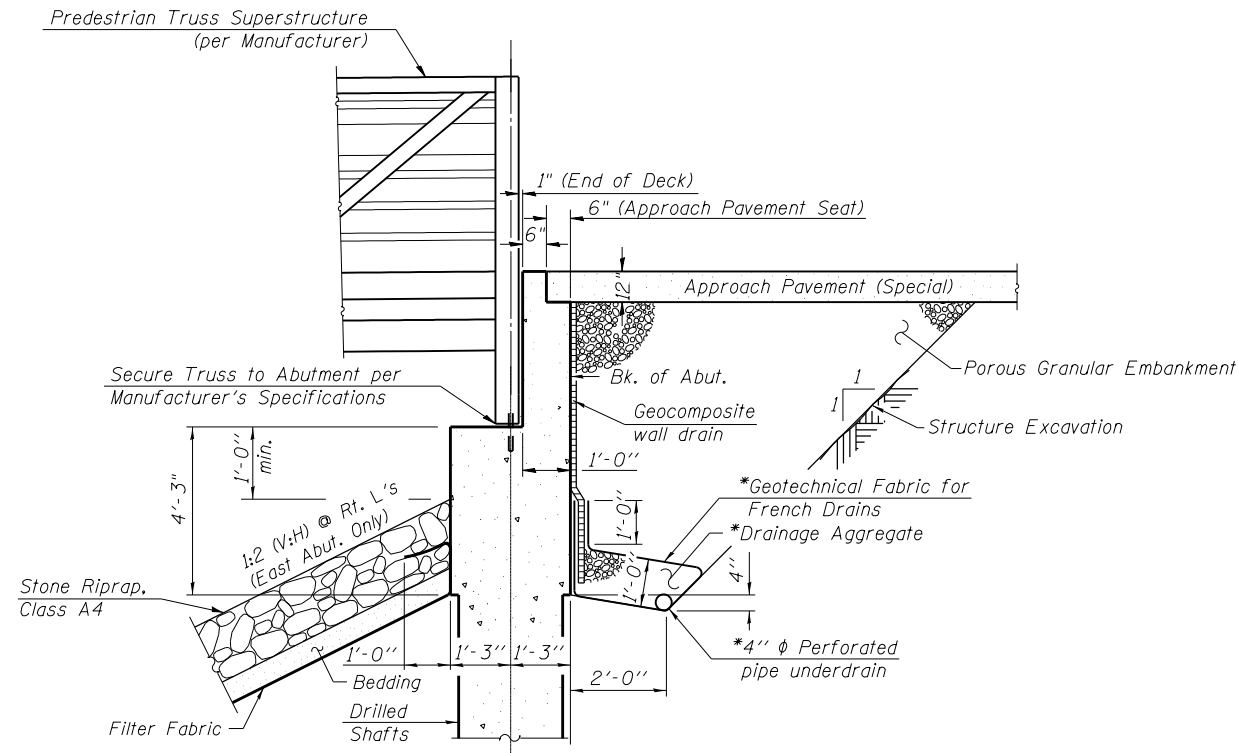
**PROFILE GRADE**  
(along  $\phi$  Bill Klingner Trail)



**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  $\frac{1}{8}$  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.

**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
Pedestrian Rail (Special)	Foot	48		48
Bridge Approach Pavement (Special)	Sq. Yd.	34		34

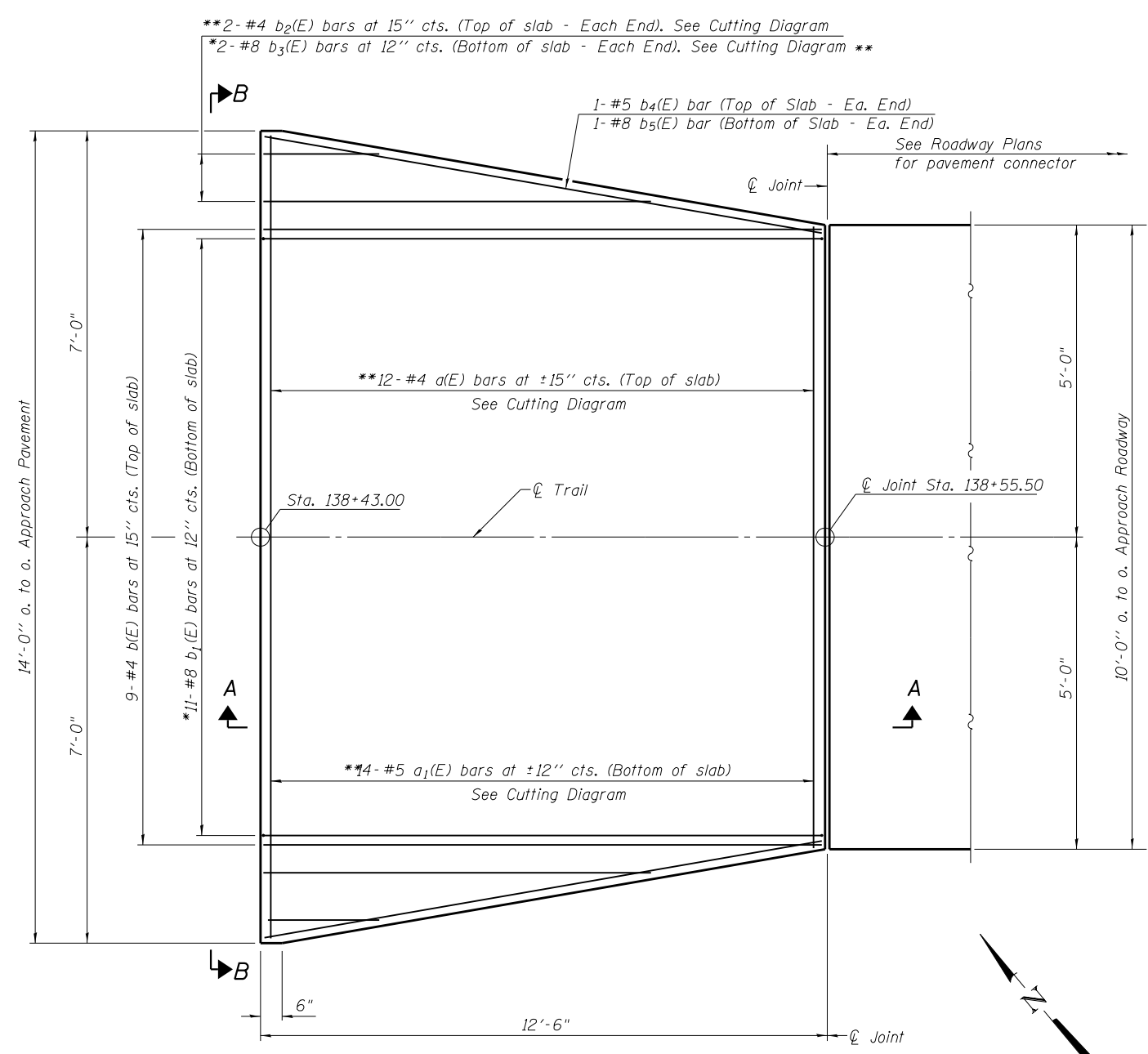
STATION 138+06.00  
BUILT 201 BY  
QUINCY PARK DISTRICT  
SEC. 16-P4003-04-BT  
LOADING H-10  
STRUCTURE NO. 001-F003.2

**NAME PLATE**  
See Std. 515001

USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 3/2/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

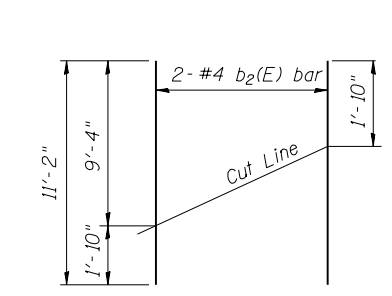
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	42
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



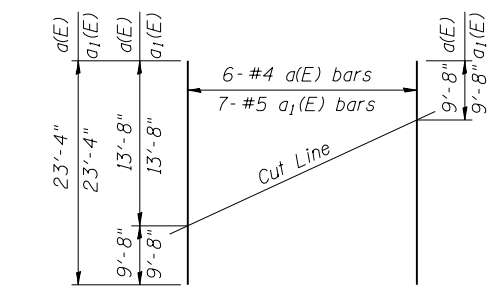


**PLAN**

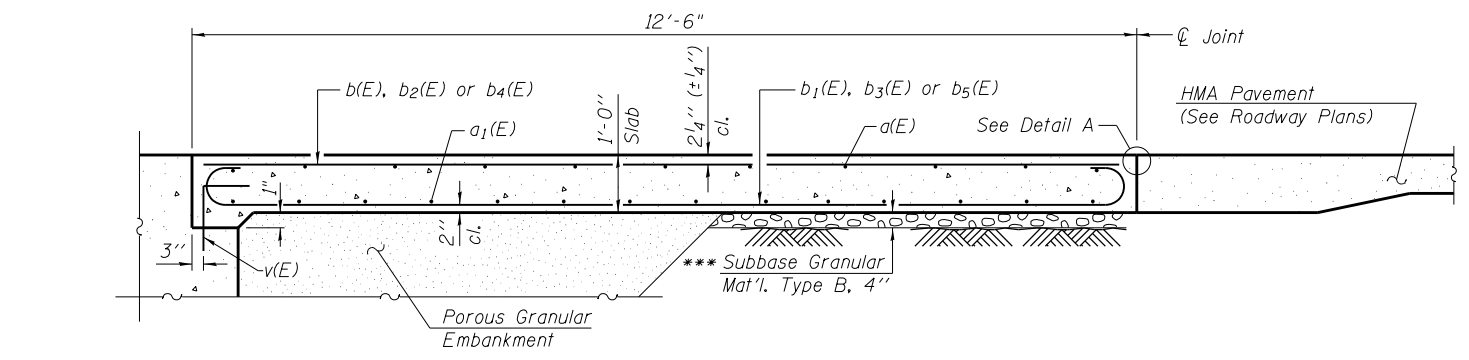
\*Tilt #8 b<sub>1</sub>(E) & b<sub>3</sub>(E) bars as required to maintain clearance.  
 \*\*After cutting



**FIELD CUTTING DIAGRAM**  
 Order b<sub>2</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.

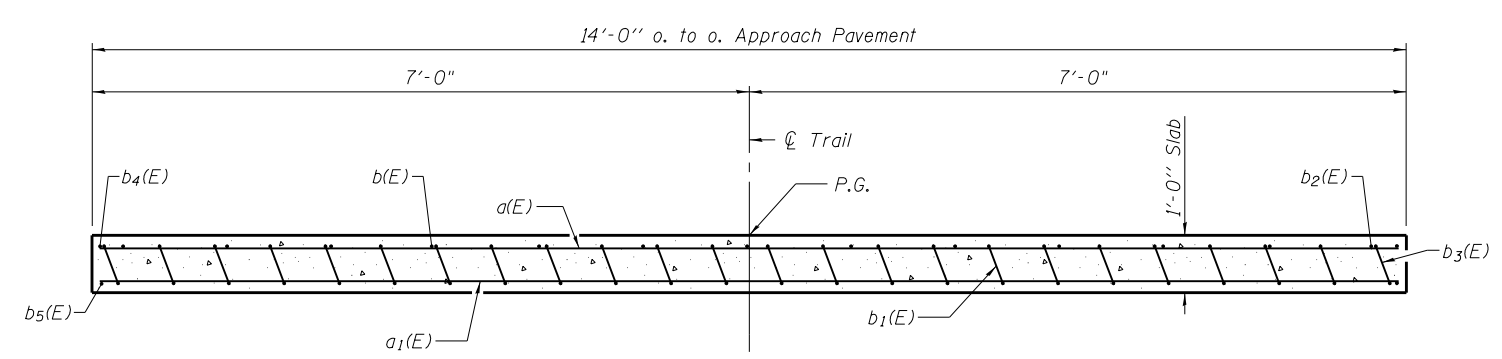


**FIELD CUTTING DIAGRAM**  
 Order a(E) & a<sub>1</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.



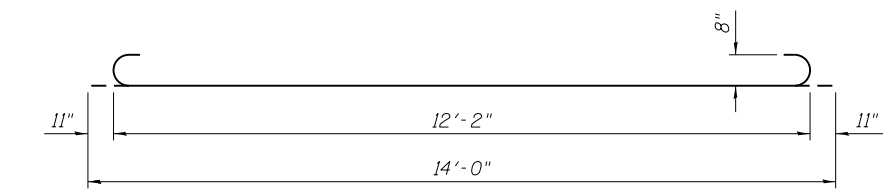
**SECTION A-A**

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

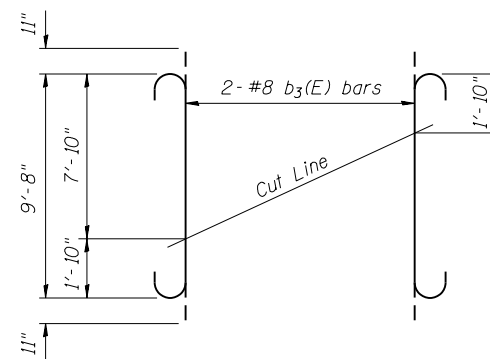


**SECTION B-B**

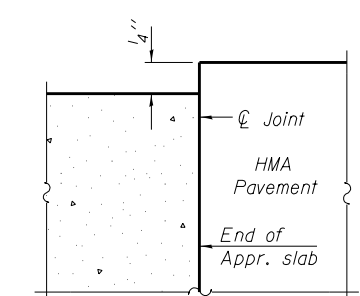
(See Plan for dimensions not shown)



**BAR b<sub>1</sub>(E)**



**FIELD CUTTING DIAGRAM**  
 Order b<sub>3</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.



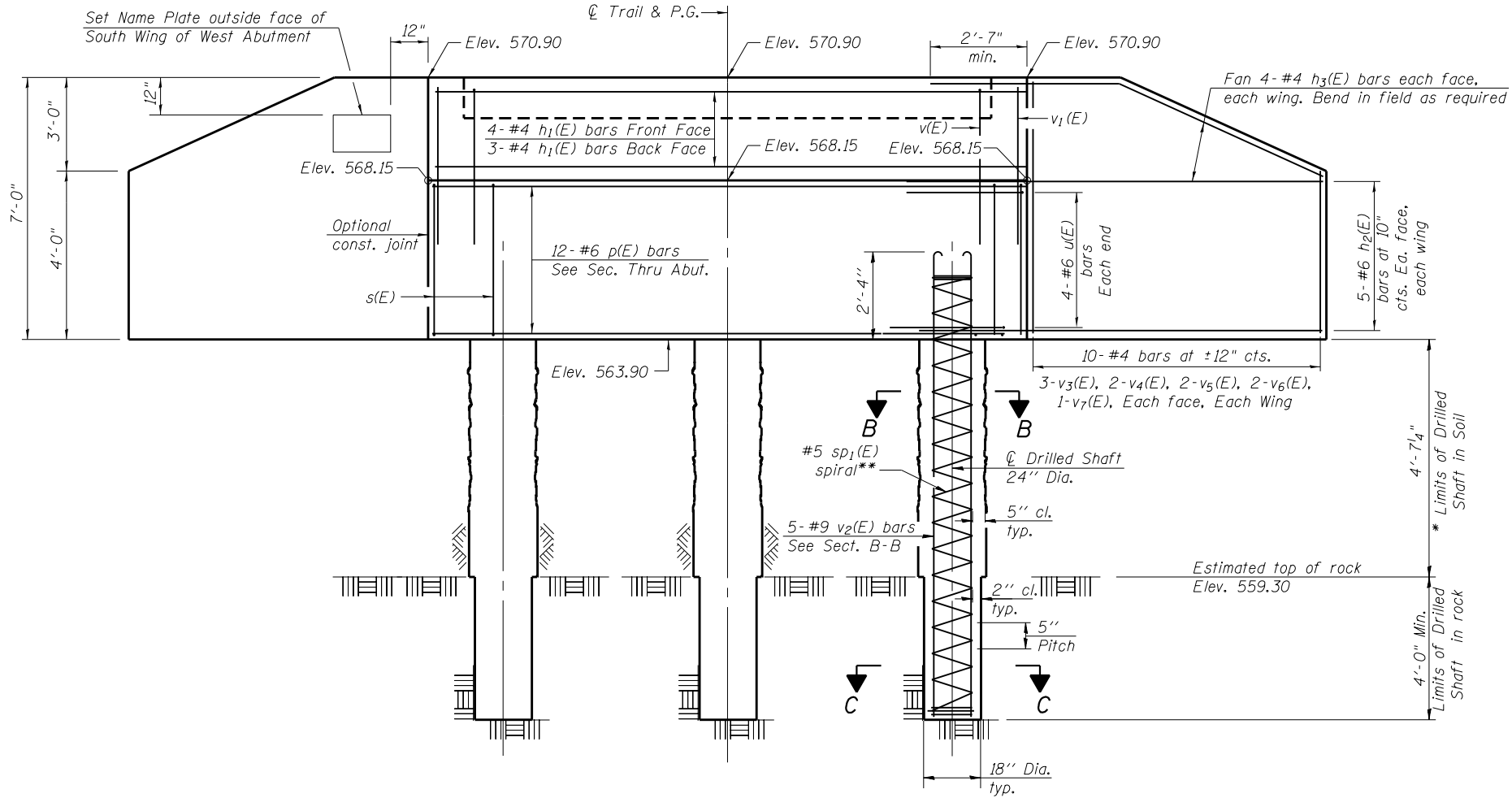
**FLEXIBLE PAVEMENT DETAIL A**

Notes:  
 a(E) and a<sub>1</sub>(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.

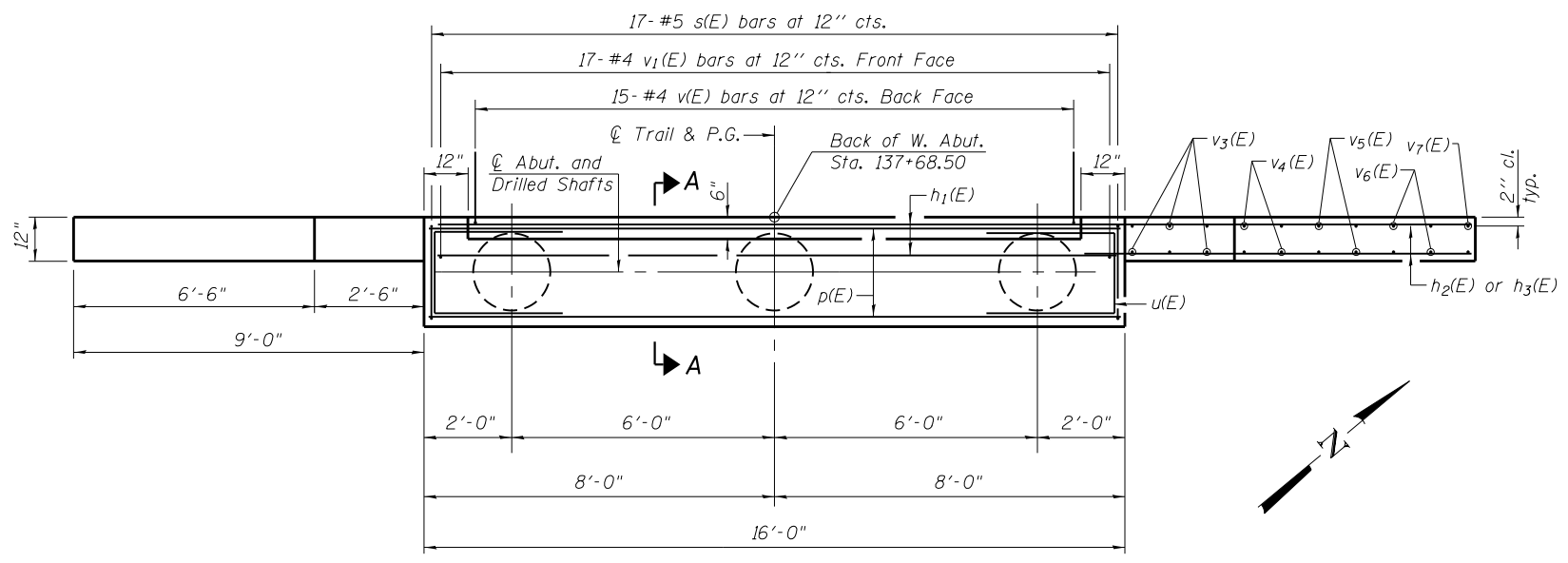
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	6	#4	23'-4"	—
a <sub>1</sub> (E)	7	#5	23'-4"	—
b(E)	9	#4	12'-2"	—
b <sub>1</sub> (E)	11	#8	14'-0"	—
b <sub>2</sub> (E)	2	#4	11'-2"	—
b <sub>3</sub> (E)	2	#8	11'-6"	—
b <sub>4</sub> (E)	2	#5	12'-4"	—
b <sub>5</sub> (E)	2	#8	12'-4"	—
Protective Coat			Sq. Yd.	17
Bridge Approach Pavement (Special)			Sq. Yd.	17

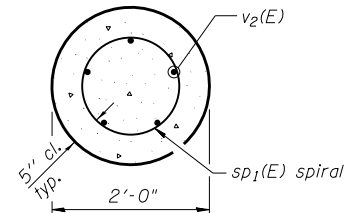
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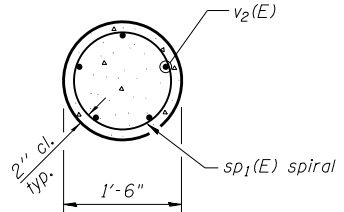
**ELEVATION**  
(Looking West)



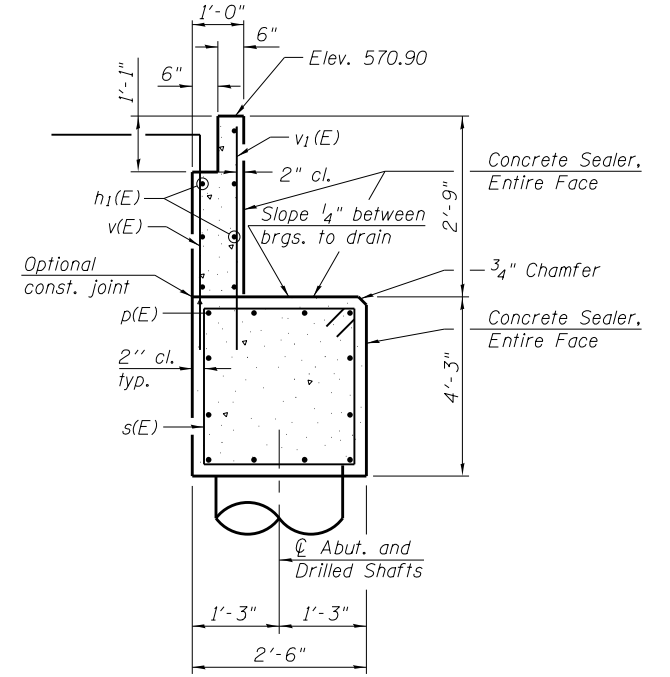
**PLAN**



**SECTION B-B**



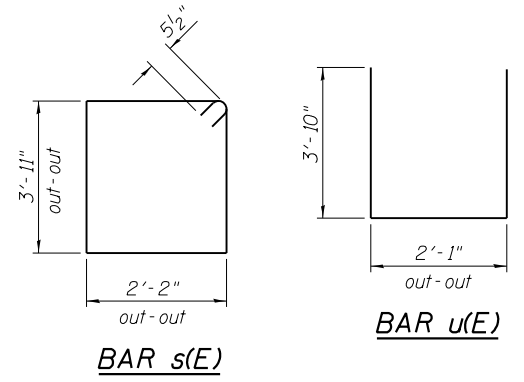
**SECTION C-C**



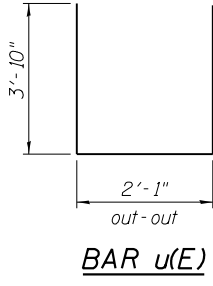
**SECTION A-A**

**BILL OF MATERIAL**

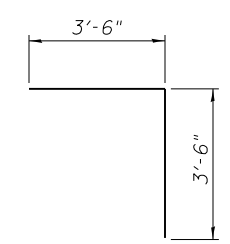
Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	7	#4	15'-8"	—
h <sub>2</sub> (E)	20	#6	13'-7"	—
h <sub>3</sub> (E)	16	#4	12'-1"	—
p(E)	12	#6	15'-8"	—
s(E)	17	#5	13'-1"	□
*** sp <sub>1</sub> (E)	3	#5	9'-10"	⋈
u(E)	8	#6	9'-9"	⊏
v(E)	15	#4	7'-0"	└
v <sub>1</sub> (E)	17	#4	4'-0"	—
v <sub>2</sub> (E)	15	#9	12'-0"	—
v <sub>3</sub> (E)	12	#4	6'-8"	—
v <sub>4</sub> (E)	8	#4	6'-1"	—
v <sub>5</sub> (E)	8	#4	5'-3"	—
v <sub>6</sub> (E)	8	#4	4'-3"	—
v <sub>7</sub> (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	



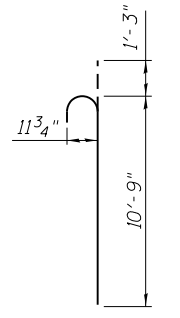
**BAR s(E)**



**BAR u(E)**



**BAR v(E)**



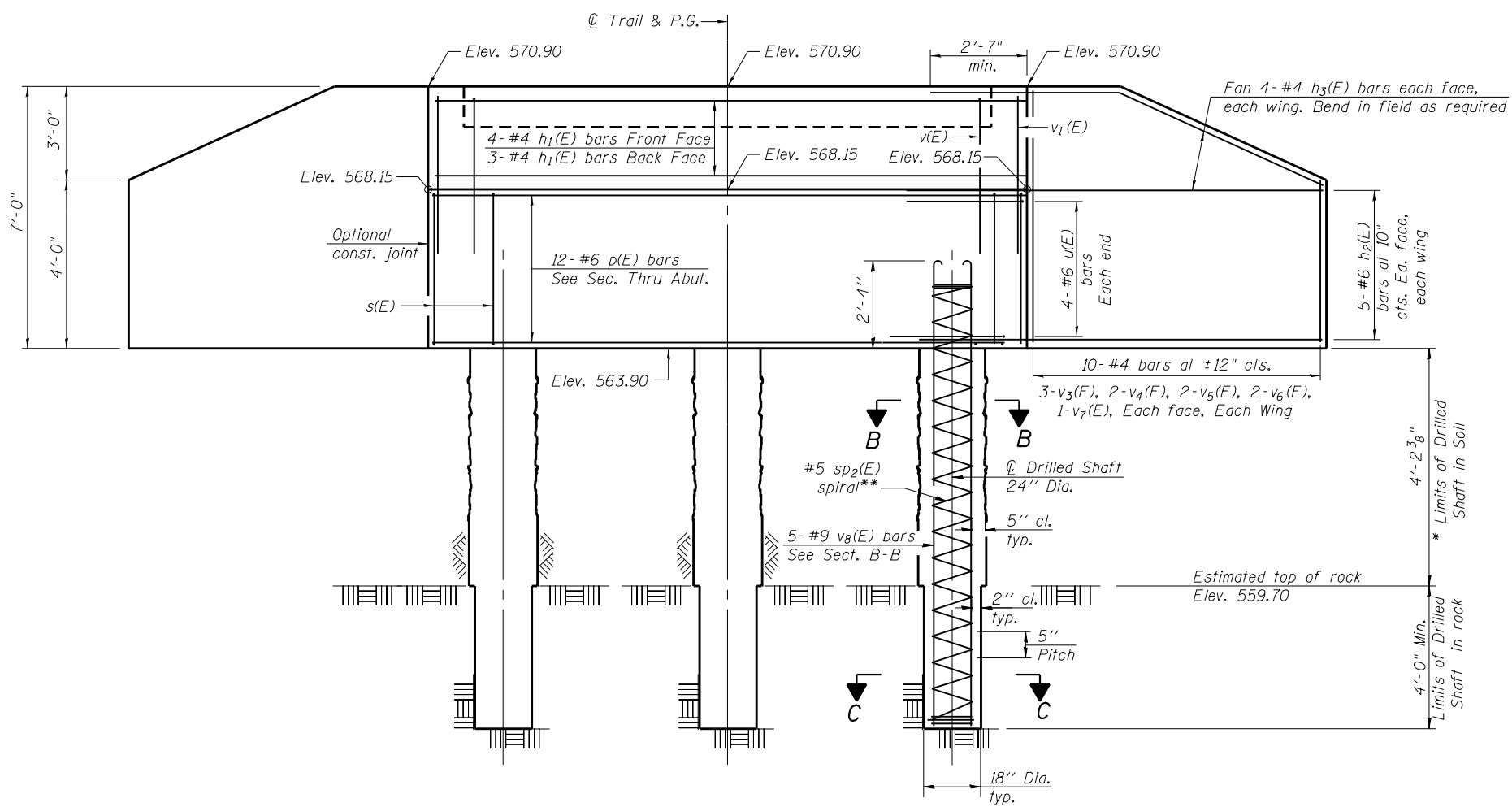
**BAR v2(E)**

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.

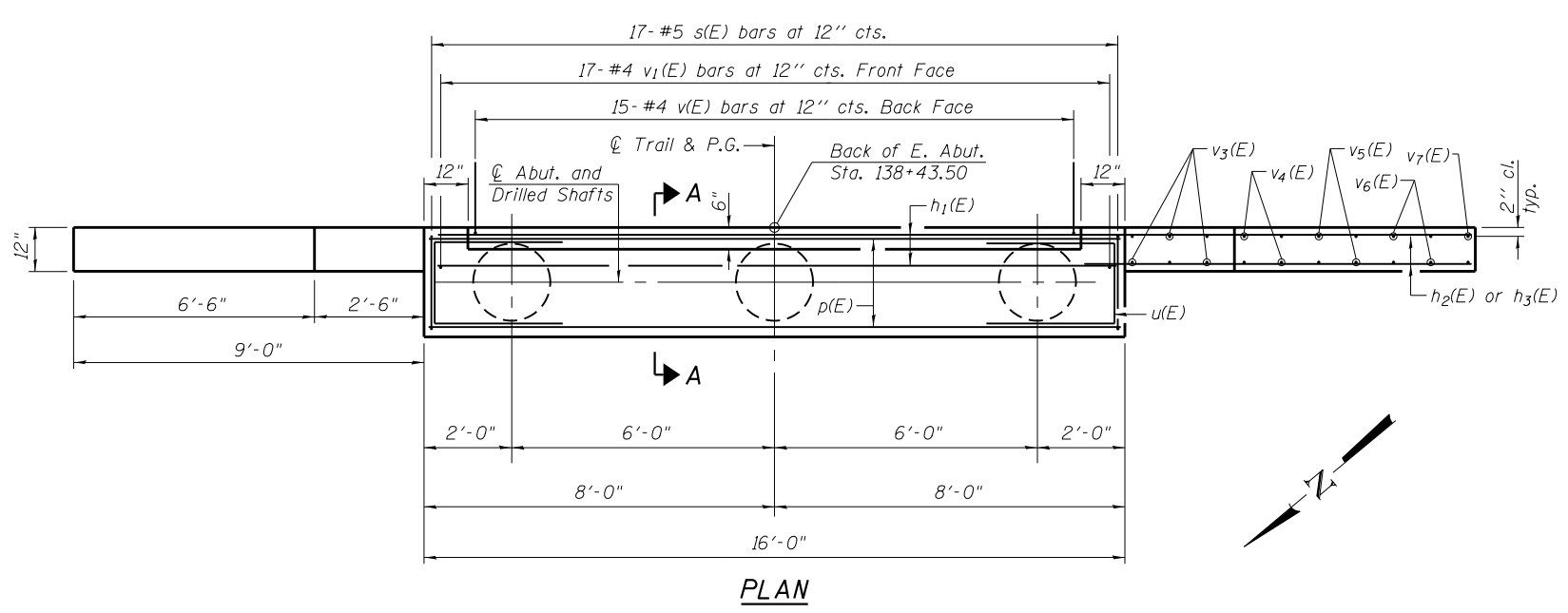
Minimum lap for spirals = 3'-4"  
\* The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.

\*\* 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.

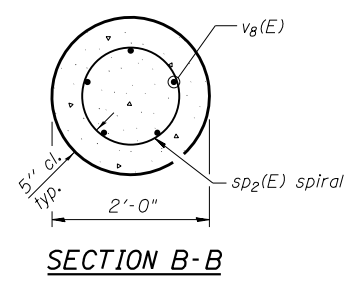
\*\*\* Length is height of spiral.



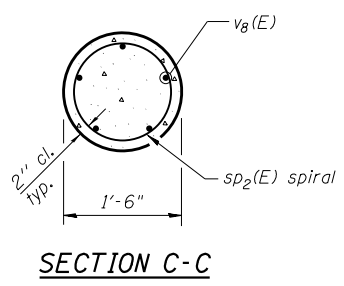
**ELEVATION**  
(Looking East)



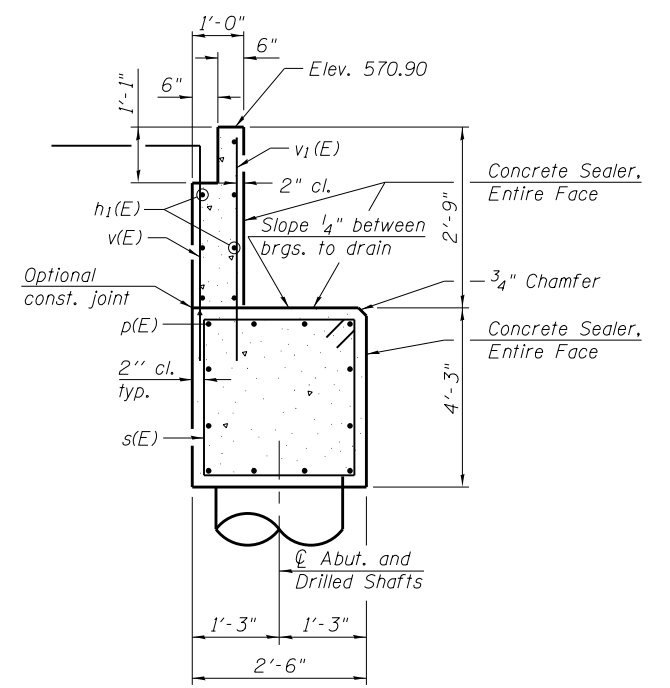
**PLAN**



**SECTION B-B**



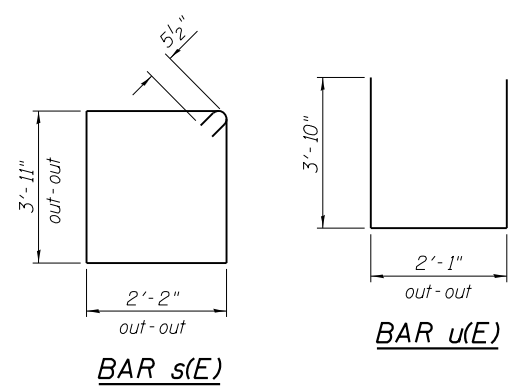
**SECTION C-C**



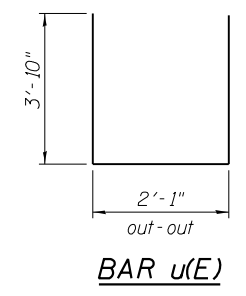
**SECTION A-A**

**BILL OF MATERIAL**

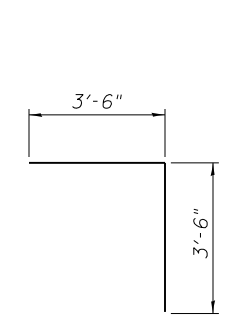
Bar	No.	Size	Length	Shape
h1(E)	7	#4	15'-8"	—
h2(E)	20	#6	13'-7"	—
h3(E)	16	#4	12'-1"	—
p(E)	12	#6	15'-8"	—
s(E)	17	#5	13'-1"	□
*** sp2(E)	3	#5	9'-6"	⌘
u(E)	8	#6	9'-9"	□
v(E)	15	#4	7'-0"	└
v1(E)	17	#4	4'-0"	—
v3(E)	12	#4	6'-8"	—
v4(E)	8	#4	6'-1"	—
v5(E)	8	#4	5'-3"	—
v6(E)	8	#4	4'-3"	—
v7(E)	4	#4	3'-8"	—
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	



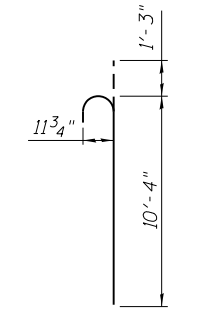
**BAR s(E)**



**BAR u(E)**



**BAR v(E)**



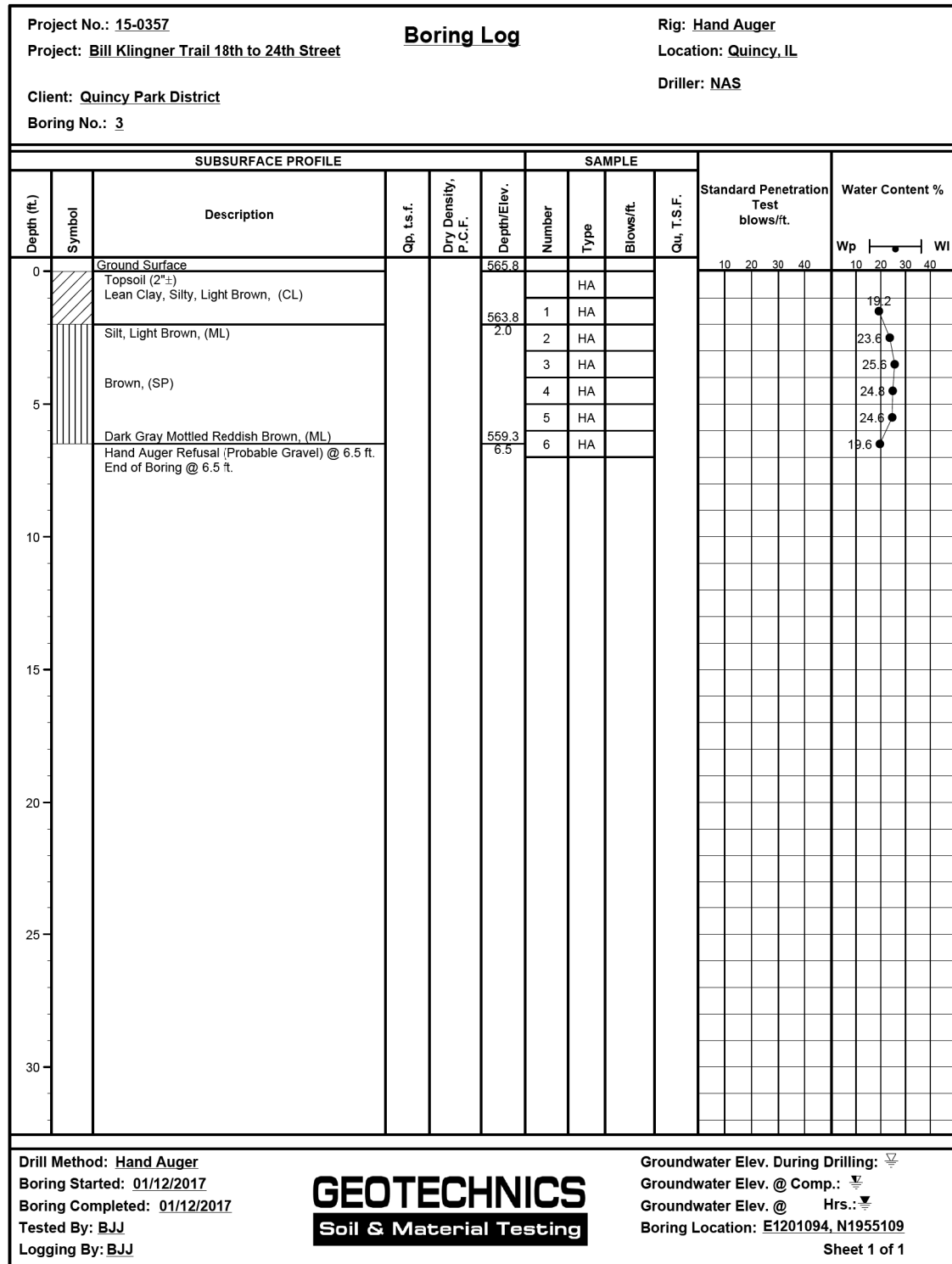
**BAR v8(E)**

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.

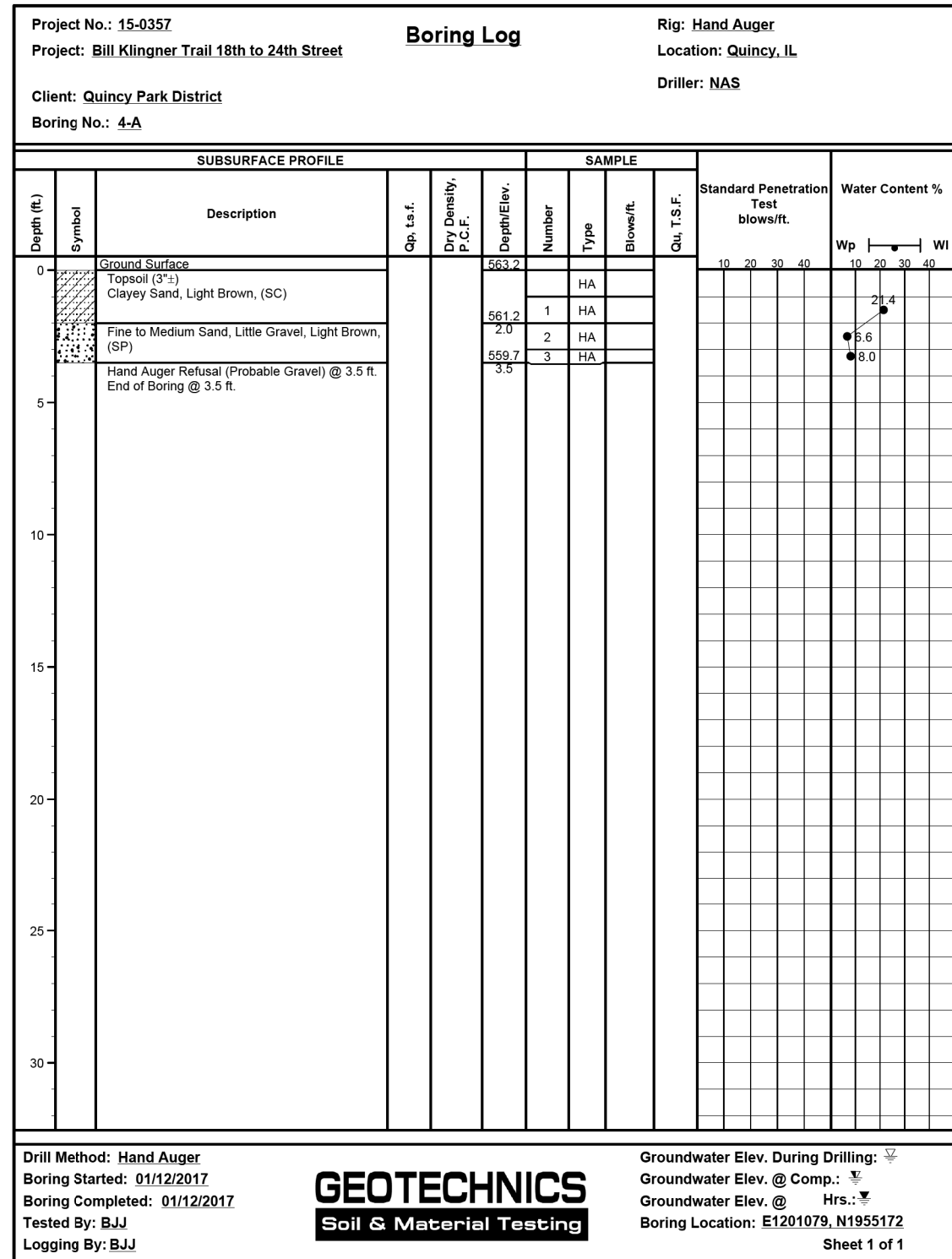
Minimum lap for spirals = 3'-4"  
\* The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.

\*\* 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.



BORING 3



BORING 4-A

USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 3/2/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	47
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

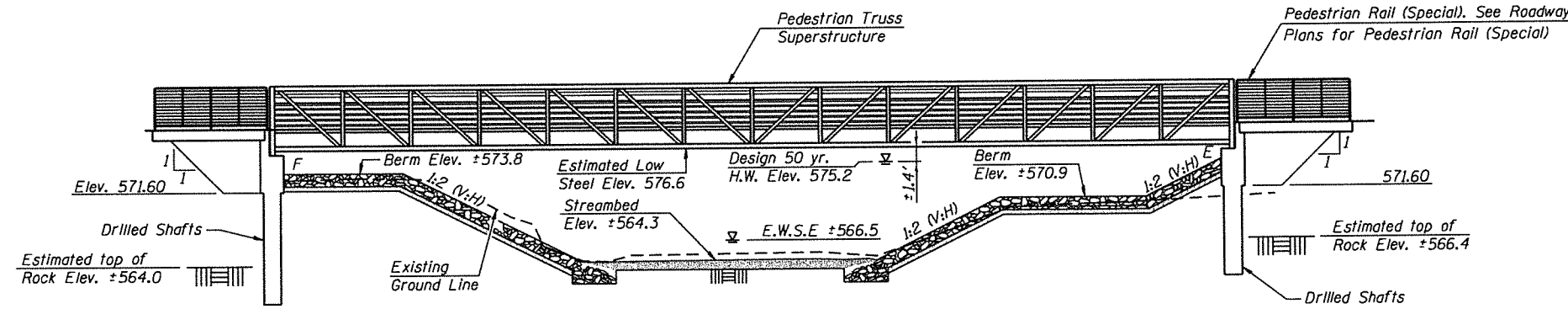
3/2/2018 9:49:35 AM

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

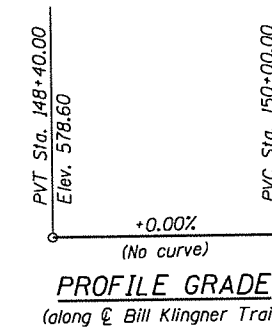
**INDEX OF SHEETS**

- 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

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

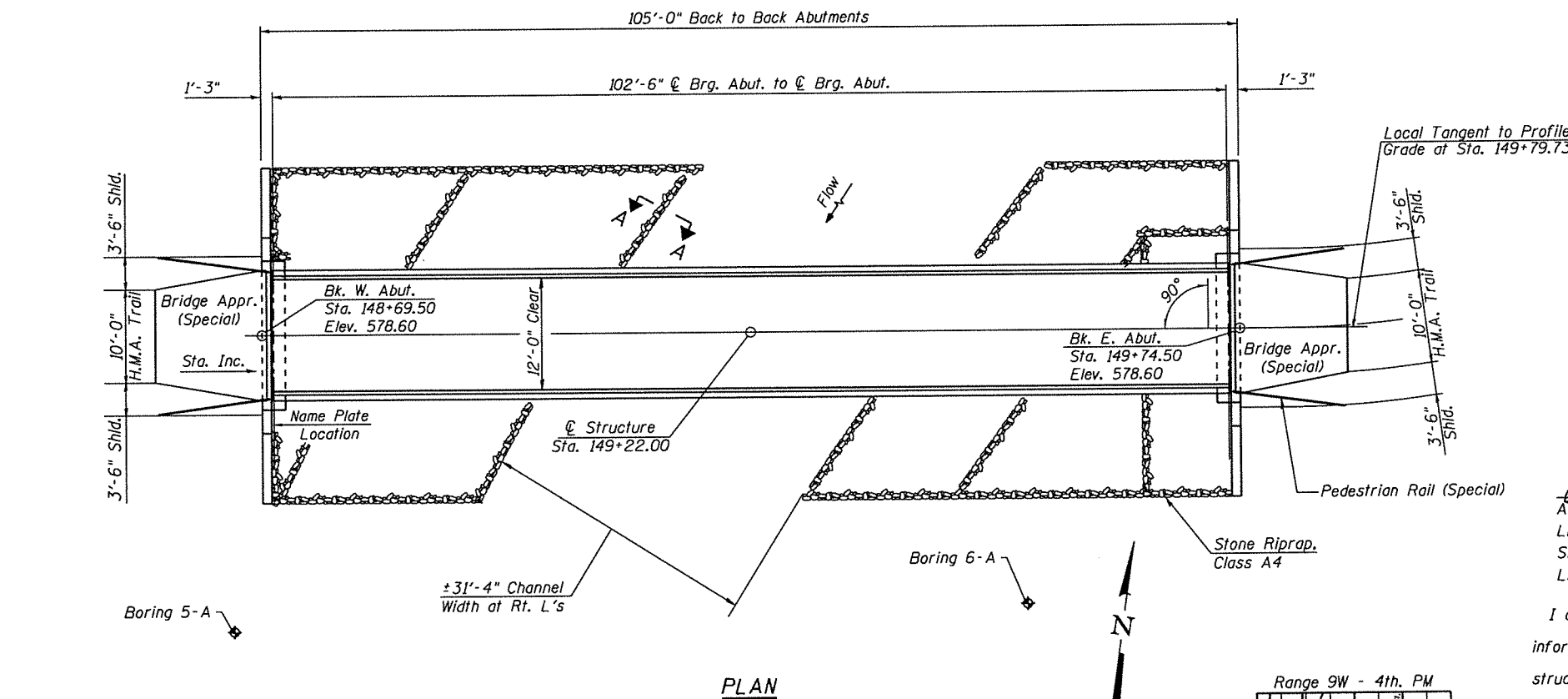


**ELEVATION**

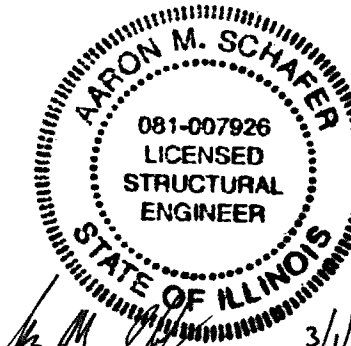


**HORIZONTAL CURVE DATA**

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.



**PLAN**



Aaron M. Schaefer  
 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".

**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)  
 $f_y = 35,000$  psi (A53W Grade B) - Pedestrian Rail (Special)

**SEISMIC DATA**  
 Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. ( $S_m$ ) = 0.083g  
 Design Spectral Acceleration at 0.2 sec. ( $S_{0.2}$ ) = 0.134g  
 Soil Site Class = 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**

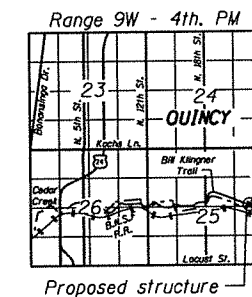
**WATERWAY INFORMATION**

Flood		Freq. Yr.	0 C.F.S.	Opening Sq. Ft.	Nat. Exist.	Nat. Prop.	Head - Ft.	Headwater El.
					Exist.	Prop.	Exist.	Prop.
Design		10	2,550	-	550	573.6	-	574.5
Base		50	4,040	-	600	574.7	-	575.2
Scour Design		100	4,730	-	650	575.0	-	575.5
Overtopping		200	5,500	-	680	575.4	-	575.8
Max. Calc.		>500	-	-	-	-	-	-
		500	6,650	-	715	575.8	-	576.2

10 year velocity through proposed bridge = 2.8 ft/s

**DESIGN SCOUR ELEVATION TABLE**

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



**LOCATION SKETCH**



USER NAME = ams	DESIGNED - AMS	REVISED -
PLLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLLOT DATE = 3/2/2018	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

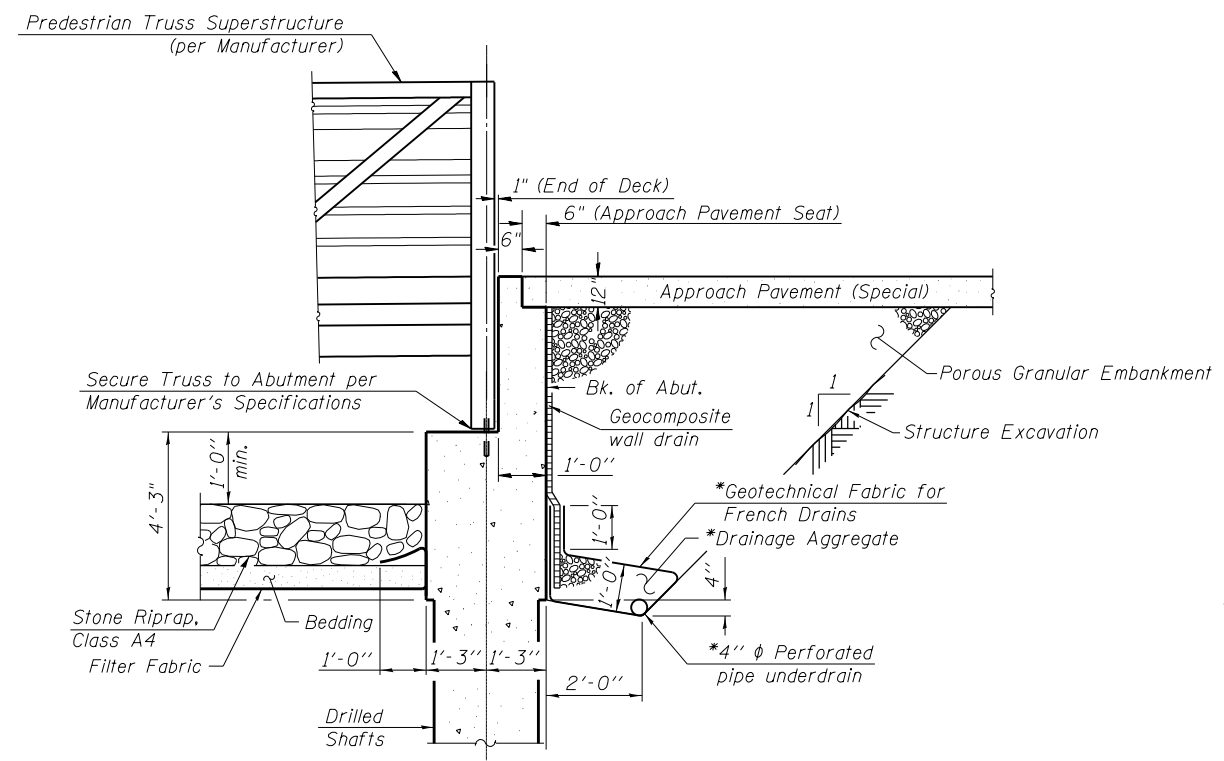
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	48
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				
Klingner & Associates P.C.				



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**GENERAL NOTES**

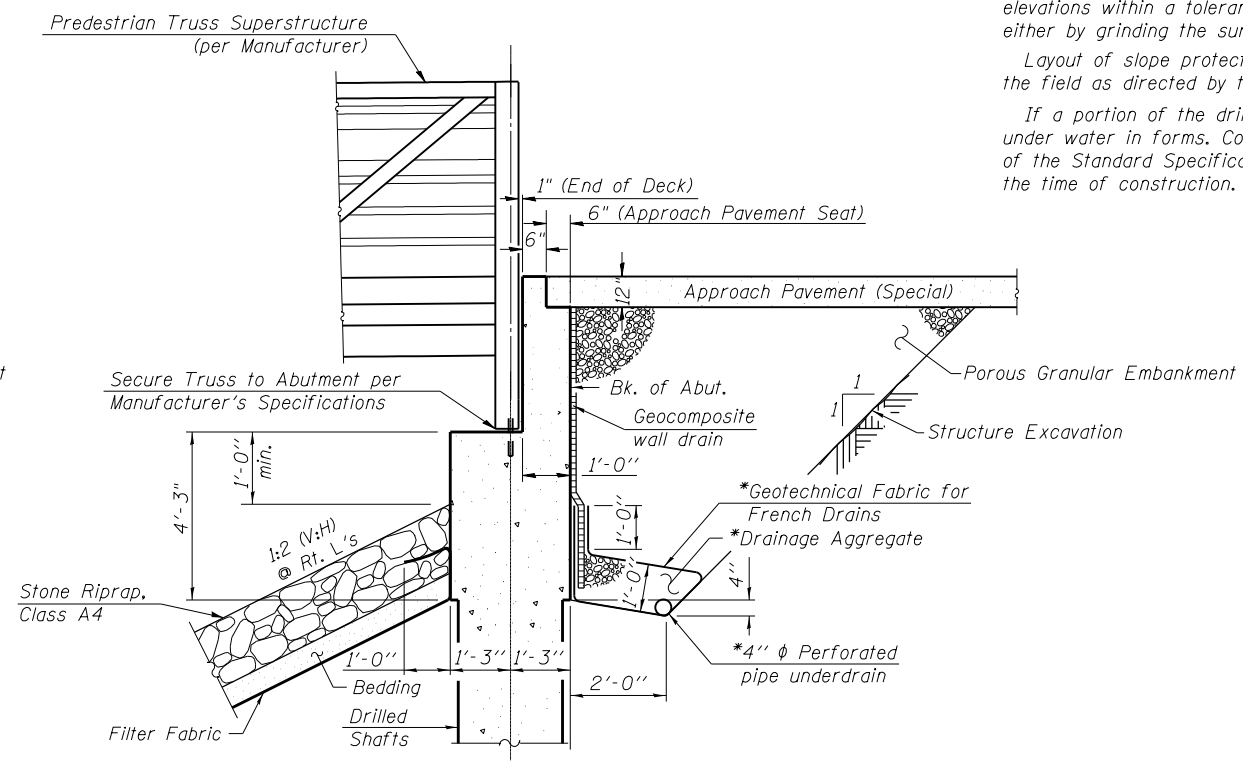
No field welding is permitted except as specified in the contract documents.  
 Reinforcement bars designated (E) shall be epoxy coated.  
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by 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.



**SECTION THRU WEST ABUTMENT**

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

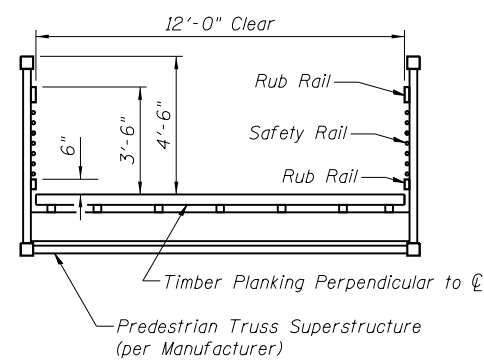
Note:  
 All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).



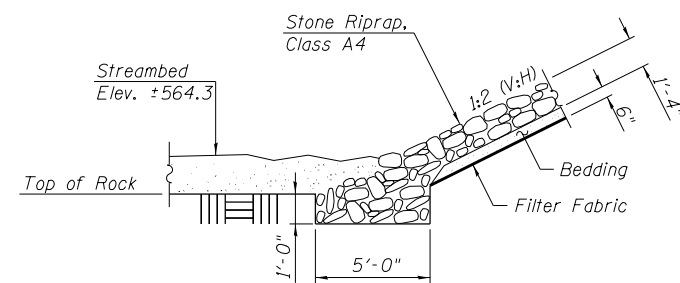
**SECTION THRU EAST ABUTMENT**

\*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 60110).



**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

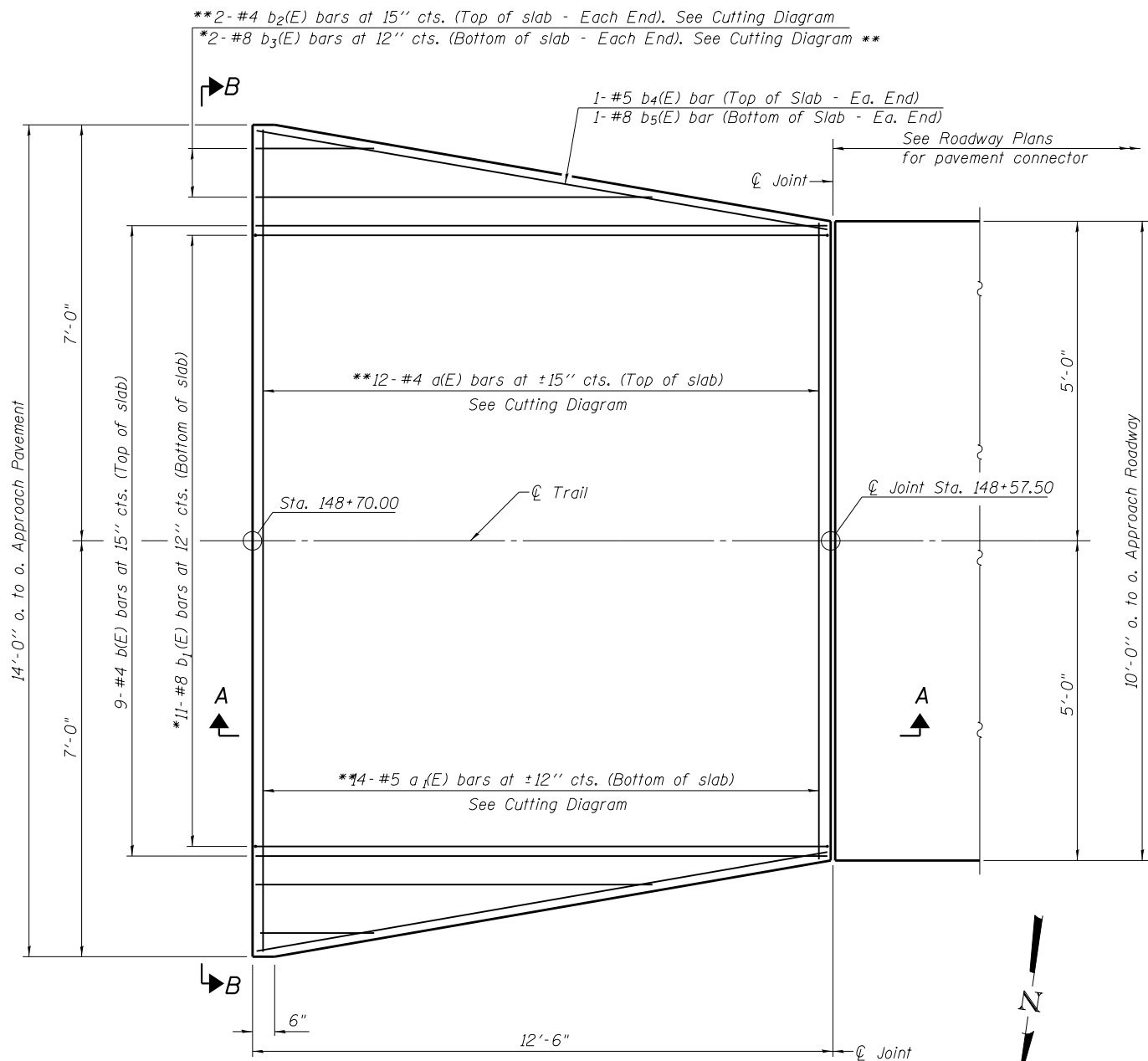
**TOTAL BILL OF MATERIAL**

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
Pedestrian Rail (Special)	Foot	48		48
Bridge Approach Pavement (Special)	Sq. Yd.	34		34

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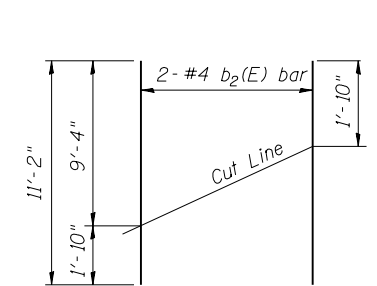
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PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 3/2/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	49
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



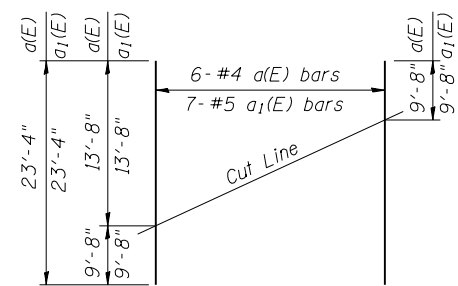
**PLAN**

\*Tilt #8 b<sub>1</sub>(E) & b<sub>3</sub>(E) bars as required to maintain clearance.  
\*\*After cutting



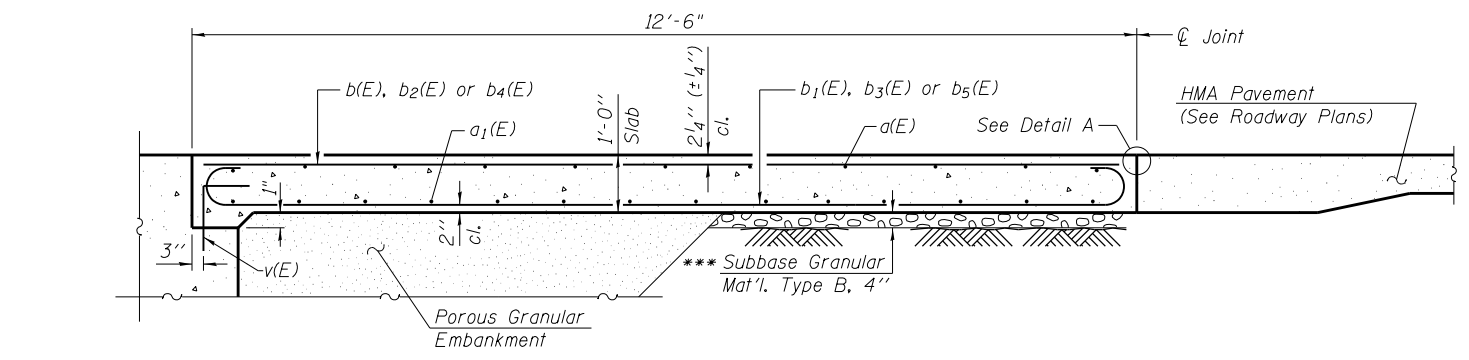
**FIELD CUTTING DIAGRAM**

Order b<sub>2</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.



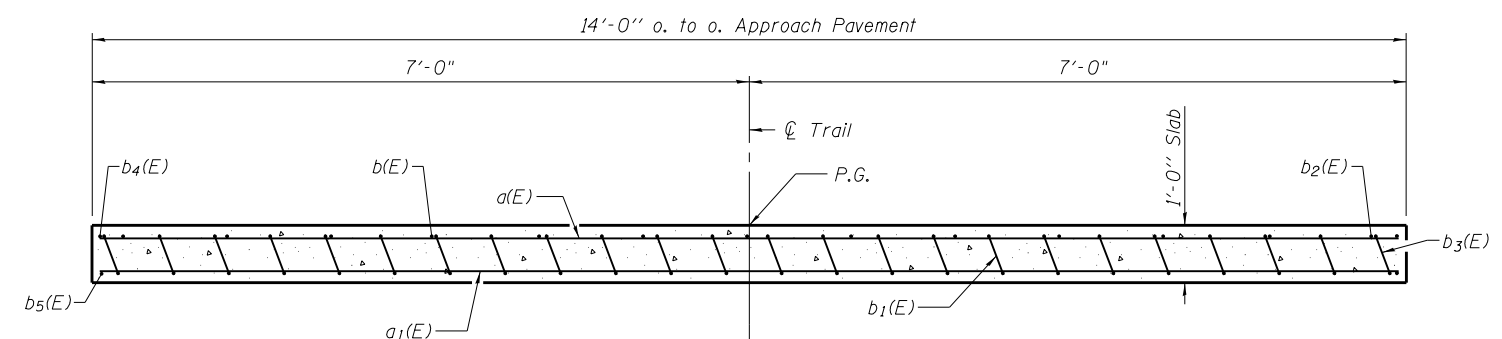
**FIELD CUTTING DIAGRAM**

Order a(E) & a<sub>1</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.



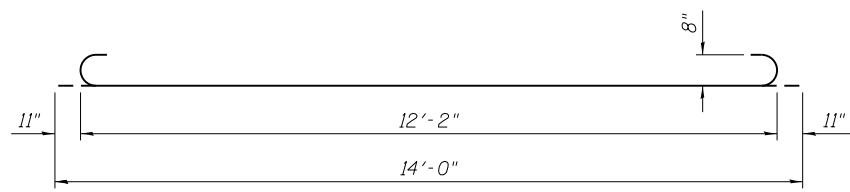
**SECTION A-A**

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

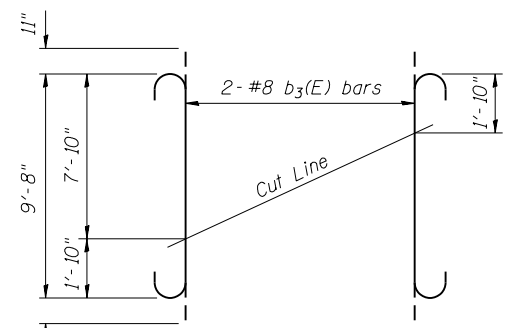


**SECTION B-B**

(See Plan for dimensions not shown)

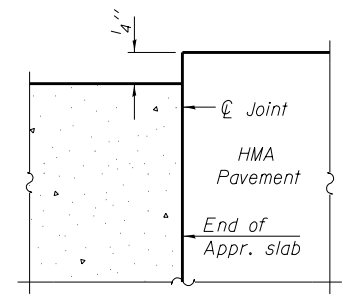


**BAR b<sub>1</sub>(E)**



**FIELD CUTTING DIAGRAM**

Order b<sub>3</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.



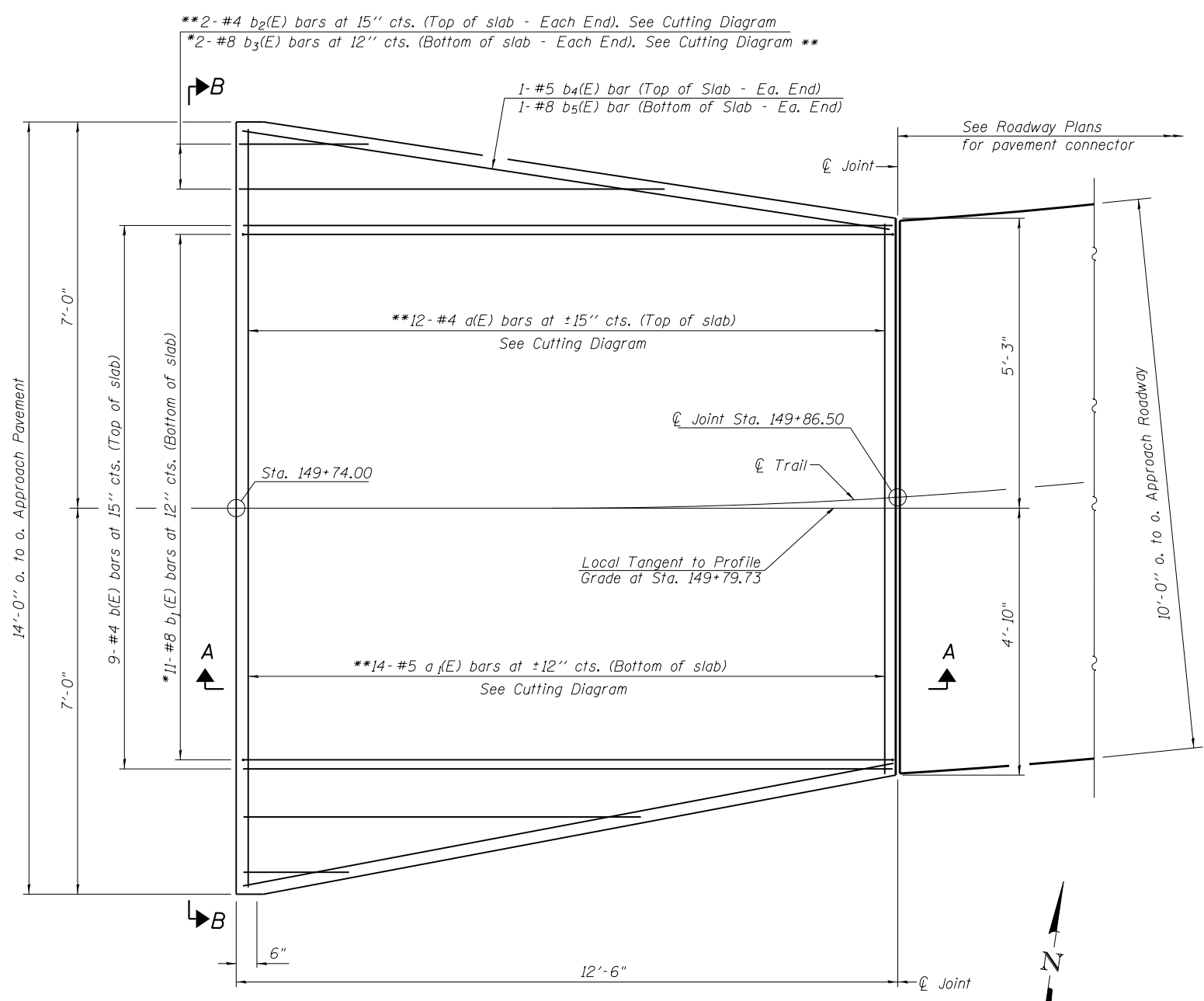
**FLEXIBLE PAVEMENT DETAIL A**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	6	#4	23'-4"	—
a <sub>1</sub> (E)	7	#5	23'-4"	—
b(E)	9	#4	12'-2"	—
b <sub>1</sub> (E)	11	#8	14'-0"	—
b <sub>2</sub> (E)	2	#4	11'-2"	—
b <sub>3</sub> (E)	2	#8	11'-6"	—
b <sub>4</sub> (E)	2	#5	12'-4"	—
b <sub>5</sub> (E)	2	#8	12'-4"	—
Protective Coat			Sq. Yd.	17
Bridge Approach Pavement (Special)			Sq. Yd.	17

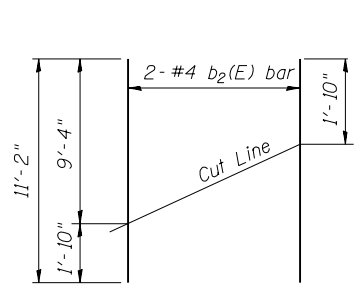
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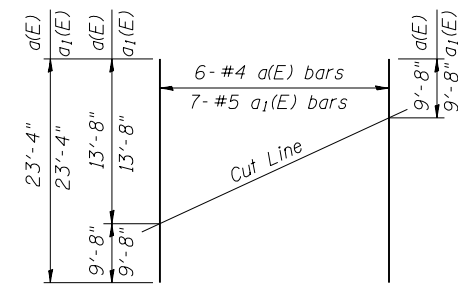
**PLAN**

\*Tilt #8 b<sub>1</sub>(E) & b<sub>3</sub>(E) bars as required to maintain clearance.  
\*\*After cutting



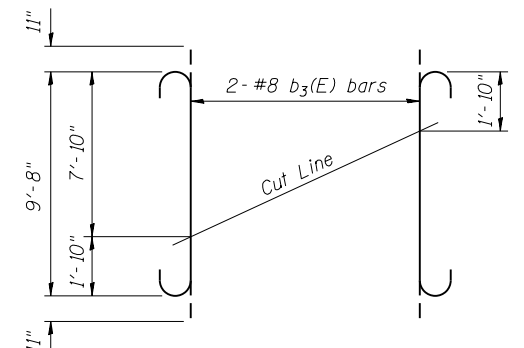
**FIELD CUTTING DIAGRAM**

Order b<sub>2</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.



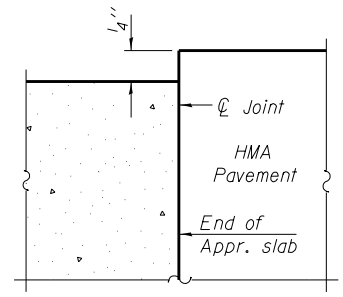
**FIELD CUTTING DIAGRAM**

Order a(E) & a<sub>1</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.

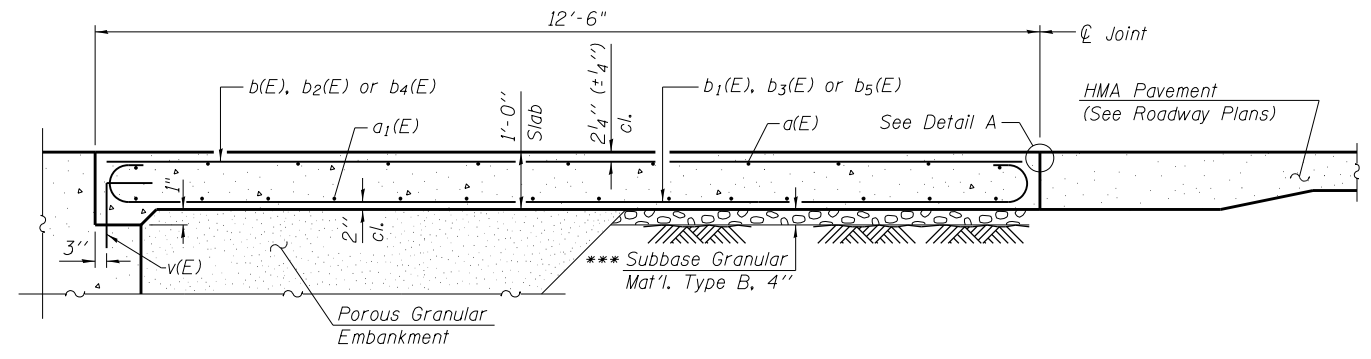


**FIELD CUTTING DIAGRAM**

Order b<sub>3</sub>(E) full length. Cut as shown and use remainder of bars at opposite end.

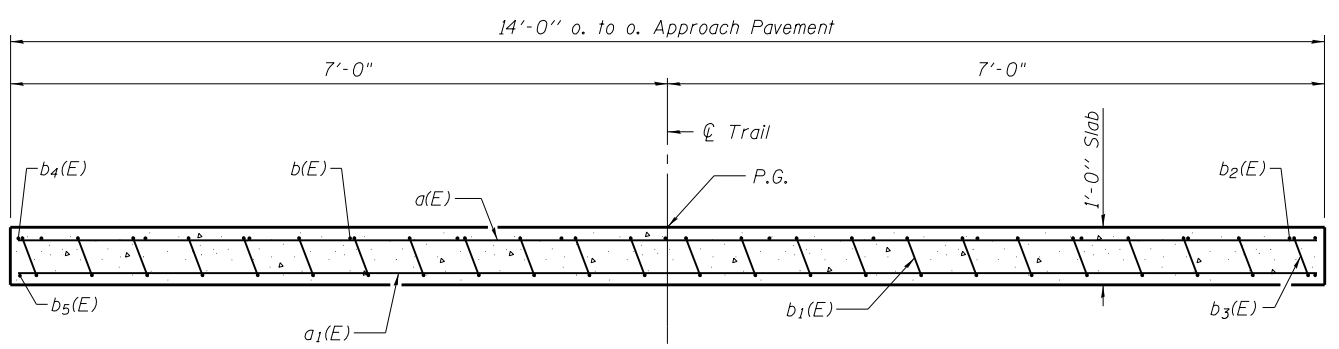


**FLEXIBLE PAVEMENT DETAIL A**



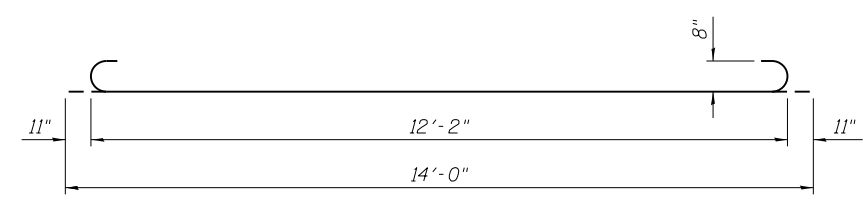
**SECTION A-A**

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



**SECTION B-B**

(See Plan for dimensions not shown)



**BAR b<sub>1</sub>(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	6	#4	23'-4"	—
a <sub>1</sub> (E)	7	#5	23'-4"	—
b(E)	9	#4	12'-2"	—
b <sub>1</sub> (E)	11	#8	14'-0"	U
b <sub>2</sub> (E)	2	#4	11'-2"	—
b <sub>3</sub> (E)	2	#8	11'-6"	U
b <sub>4</sub> (E)	2	#5	12'-4"	—
b <sub>5</sub> (E)	2	#8	12'-4"	—
Protective Coat			Sq. Yd.	17
Bridge Approach Pavement (Special)			Sq. Yd.	17

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

USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 3/2/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

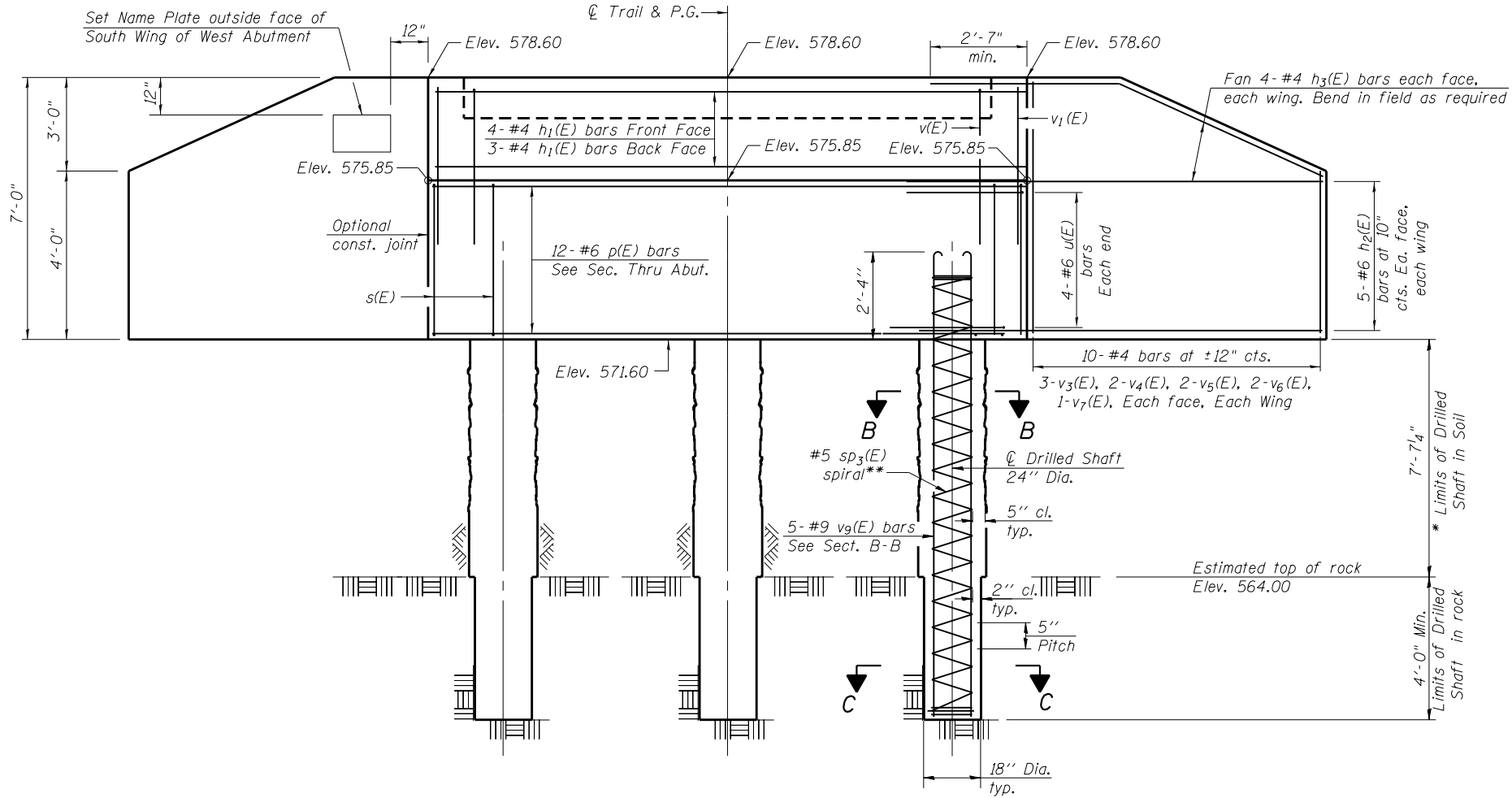
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**EAST APPROACH PAVEMENT DETAILS  
STRUCTURE NO. 001-F003.3**

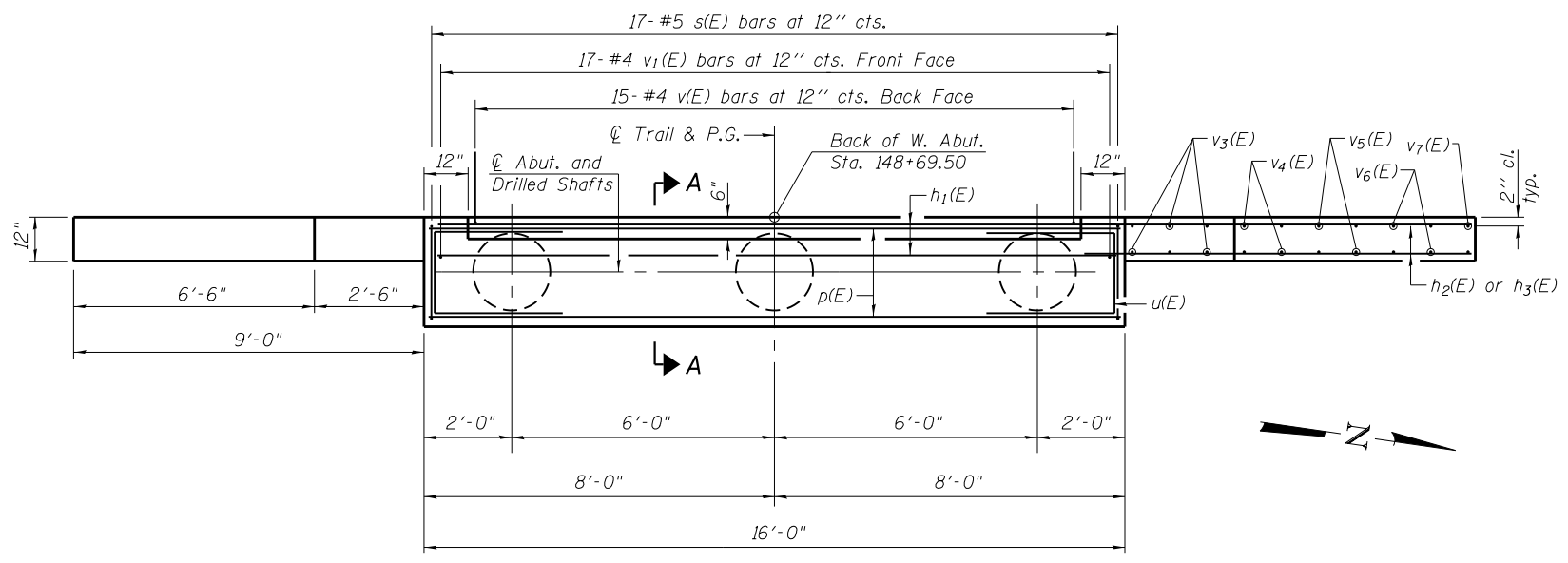
SHEET NO. 4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	51
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

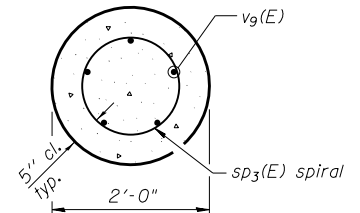
Klingner & Associates P.C.



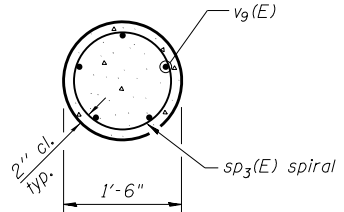
**ELEVATION**  
(Looking West)



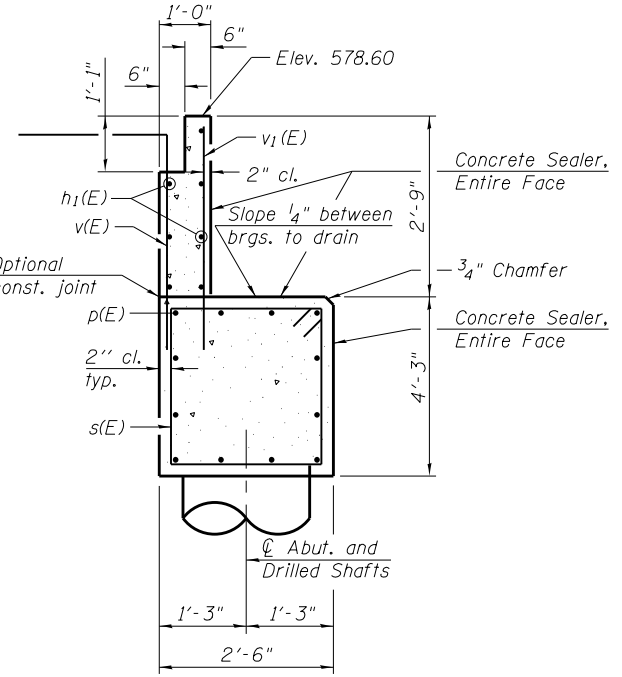
**PLAN**



**SECTION B-B**



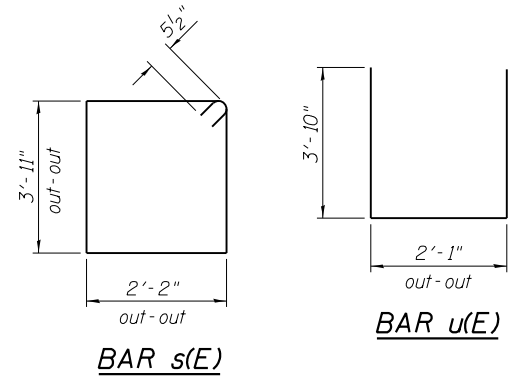
**SECTION C-C**



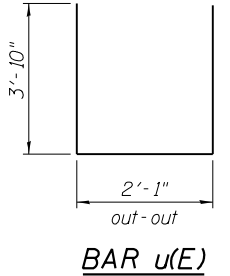
**SECTION A-A**

**BILL OF MATERIAL**

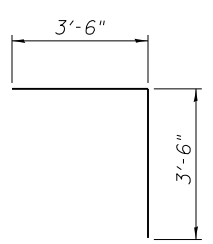
Bar	No.	Size	Length	Shape
h1(E)	7	#4	15'-8"	—
h2(E)	20	#6	13'-7"	—
h3(E)	16	#4	12'-1"	—
p(E)	12	#6	15'-8"	—
s(E)	17	#5	13'-1"	□
*** sp3(E)	3	#5	12'-10"	⋈
u(E)	8	#6	9'-9"	⌌
v(E)	15	#4	7'-0"	└
v1(E)	17	#4	4'-0"	—
v3(E)	12	#4	6'-8"	—
v4(E)	8	#4	6'-1"	—
v5(E)	8	#4	5'-3"	—
v6(E)	8	#4	4'-3"	—
v7(E)	4	#4	3'-8"	—
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	



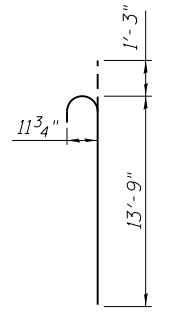
**BAR s(E)**



**BAR u(E)**



**BAR v(E)**



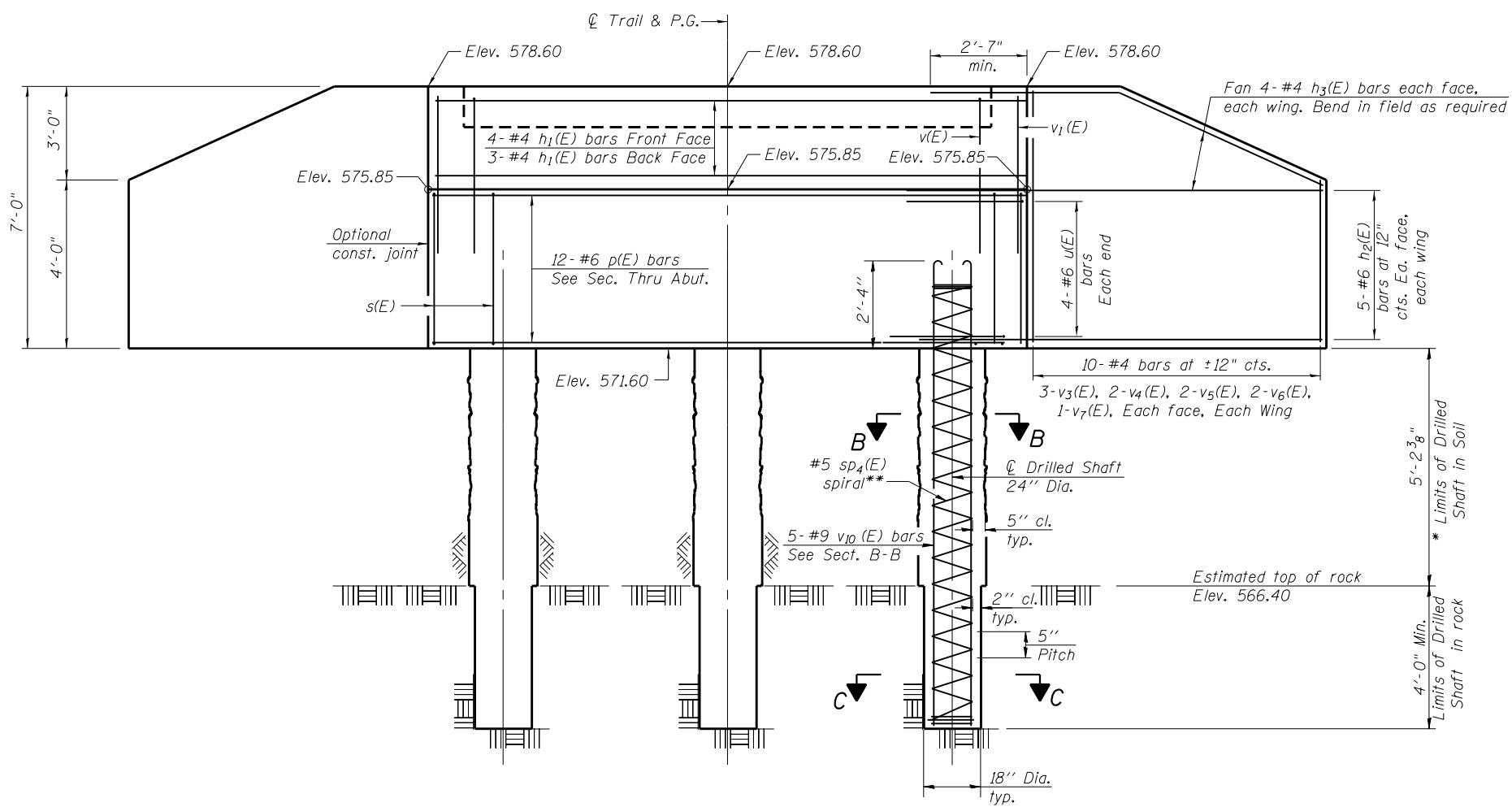
**BAR v9(E)**

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.

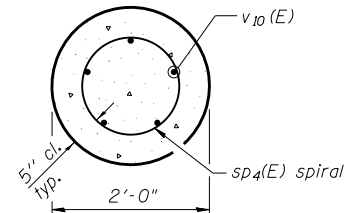
Minimum lap for spirals = 3'-4"  
\* The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.

\*\* 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.

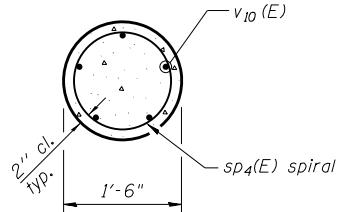
\*\*\* Length is height of spiral.



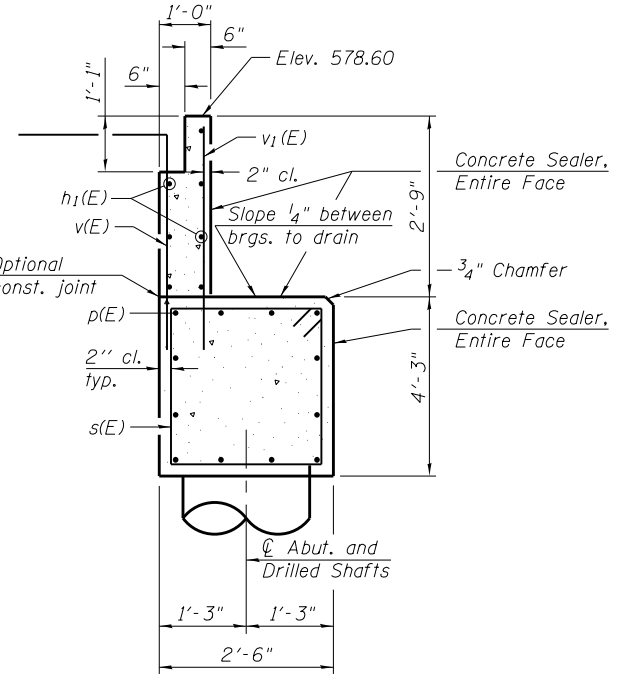
**ELEVATION**  
(Looking East)



**SECTION B-B**



**SECTION C-C**

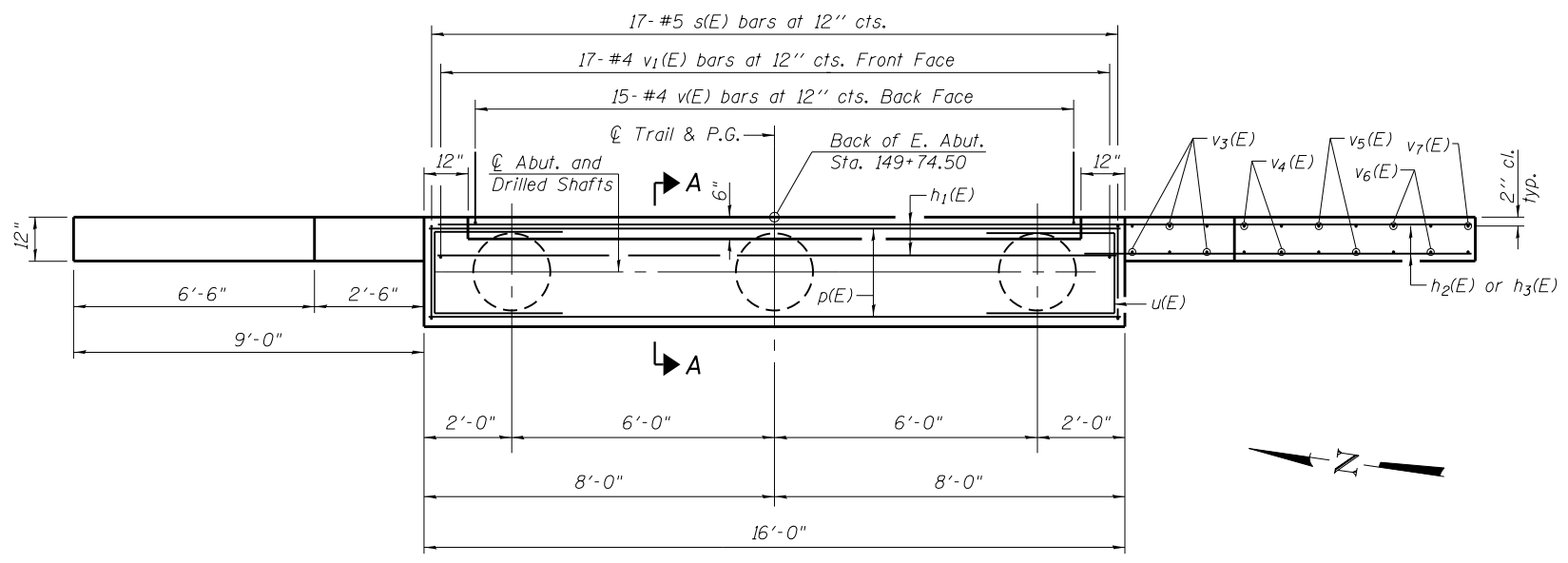


**SECTION A-A**

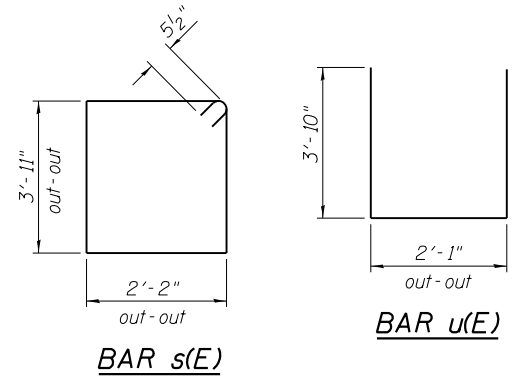
**BILL OF MATERIAL**

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"	□
sp4(E)	3	#5	10'-5"	⋈
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"	—
v10(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	

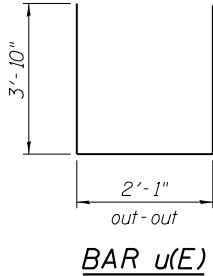
Concrete Sealer shall be applied to the front face of the backwall, top of cap, and front face of cap. Space cap reinforcement to miss anchor bolts.  
 Minimum lap for spirals = 3'-4"  
 \* The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may 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.



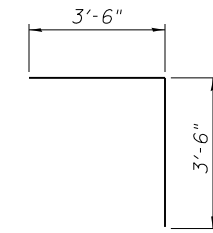
**PLAN**



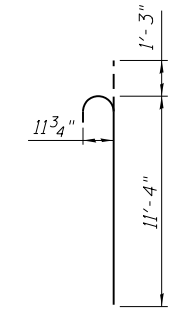
**BAR s(E)**



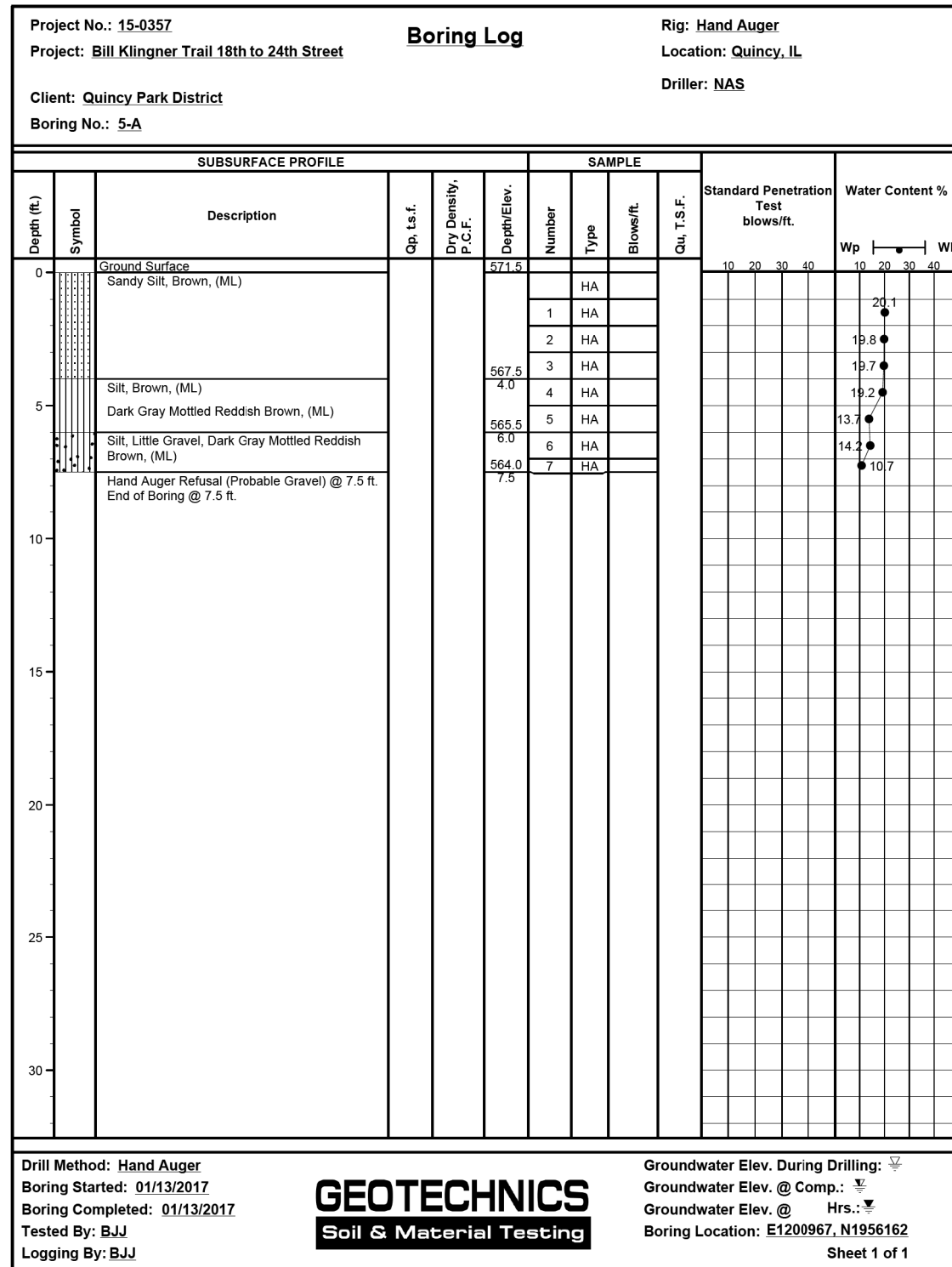
**BAR u(E)**



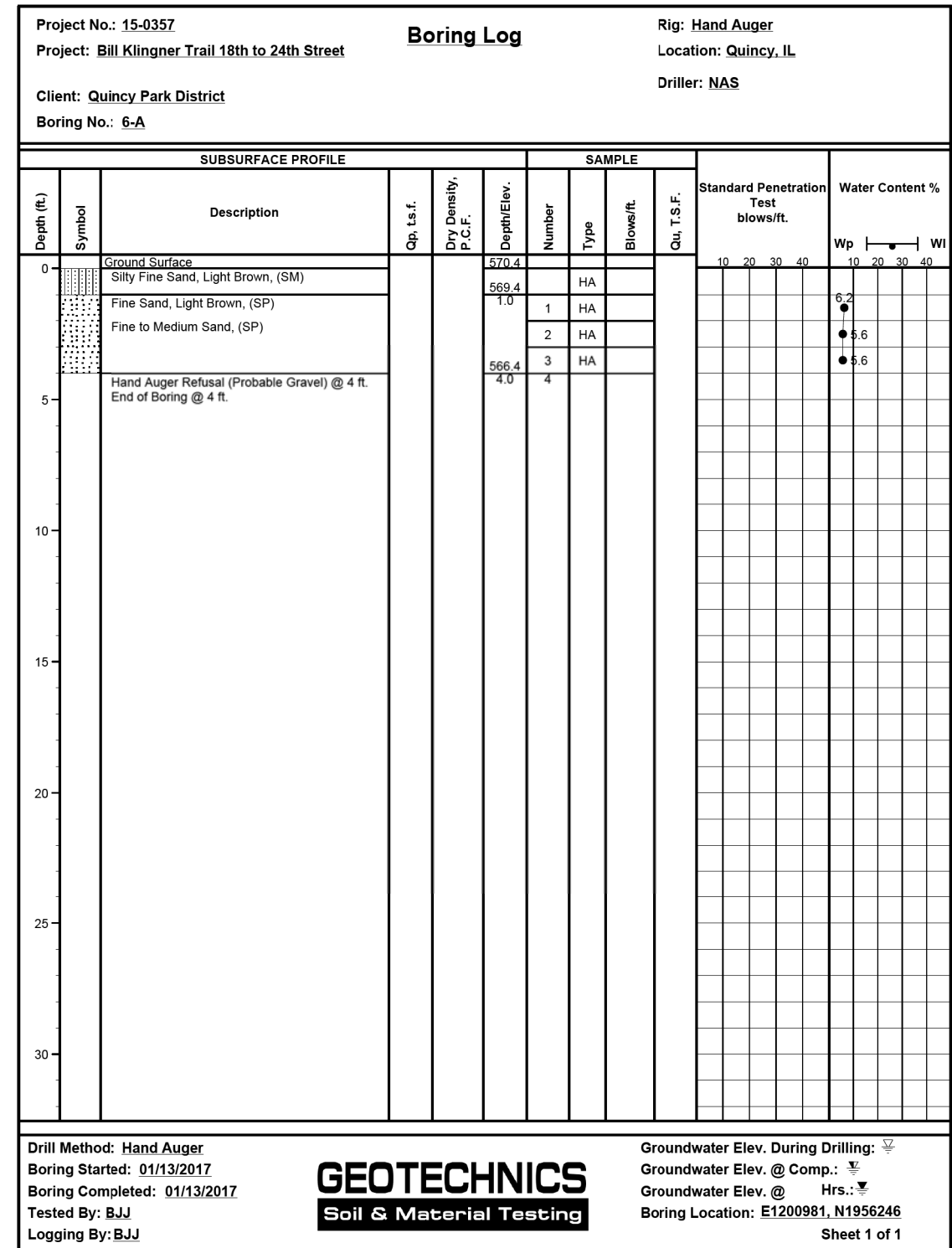
**BAR v(E)**



**BAR v10(E)**



BORING 5-A



BORING 6-A

5/12/18 PM  
7/10/2018

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**

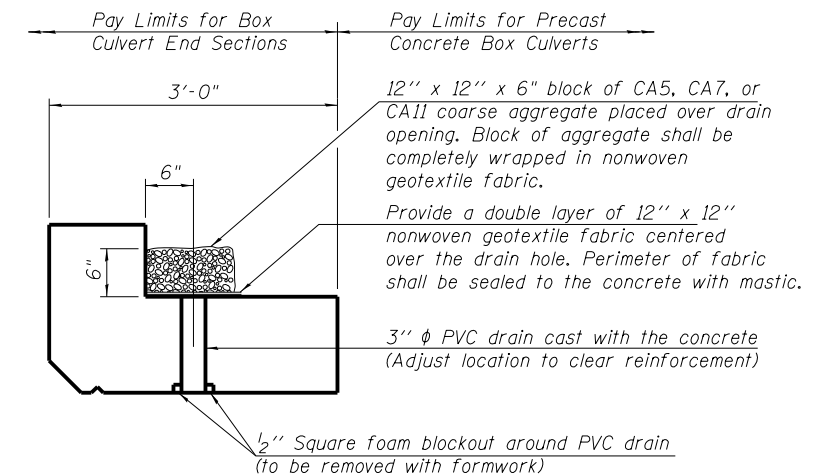
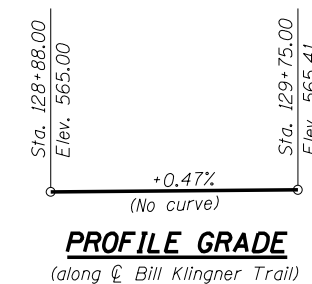
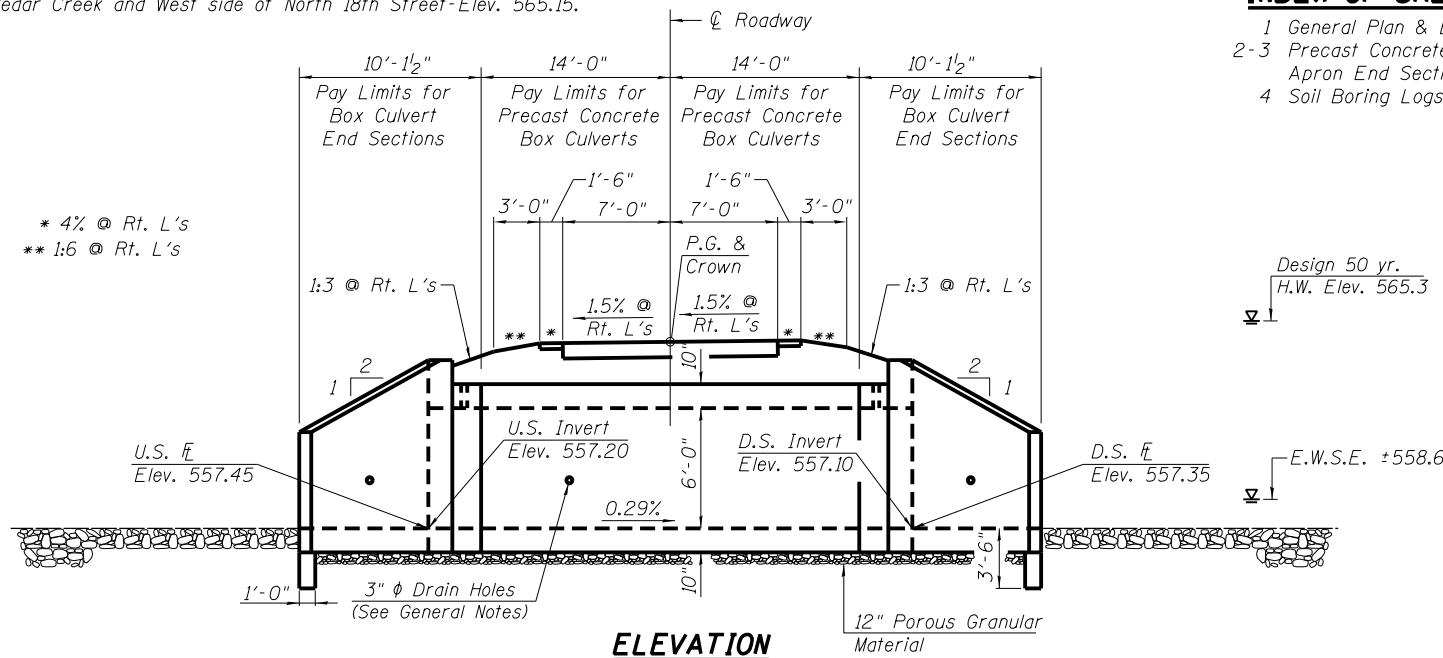
- 1 General Plan & Elevation
- 2-3 Precast Concrete Box Culvert
- Apron End Section Details
- 4 Soil Boring Logs

**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

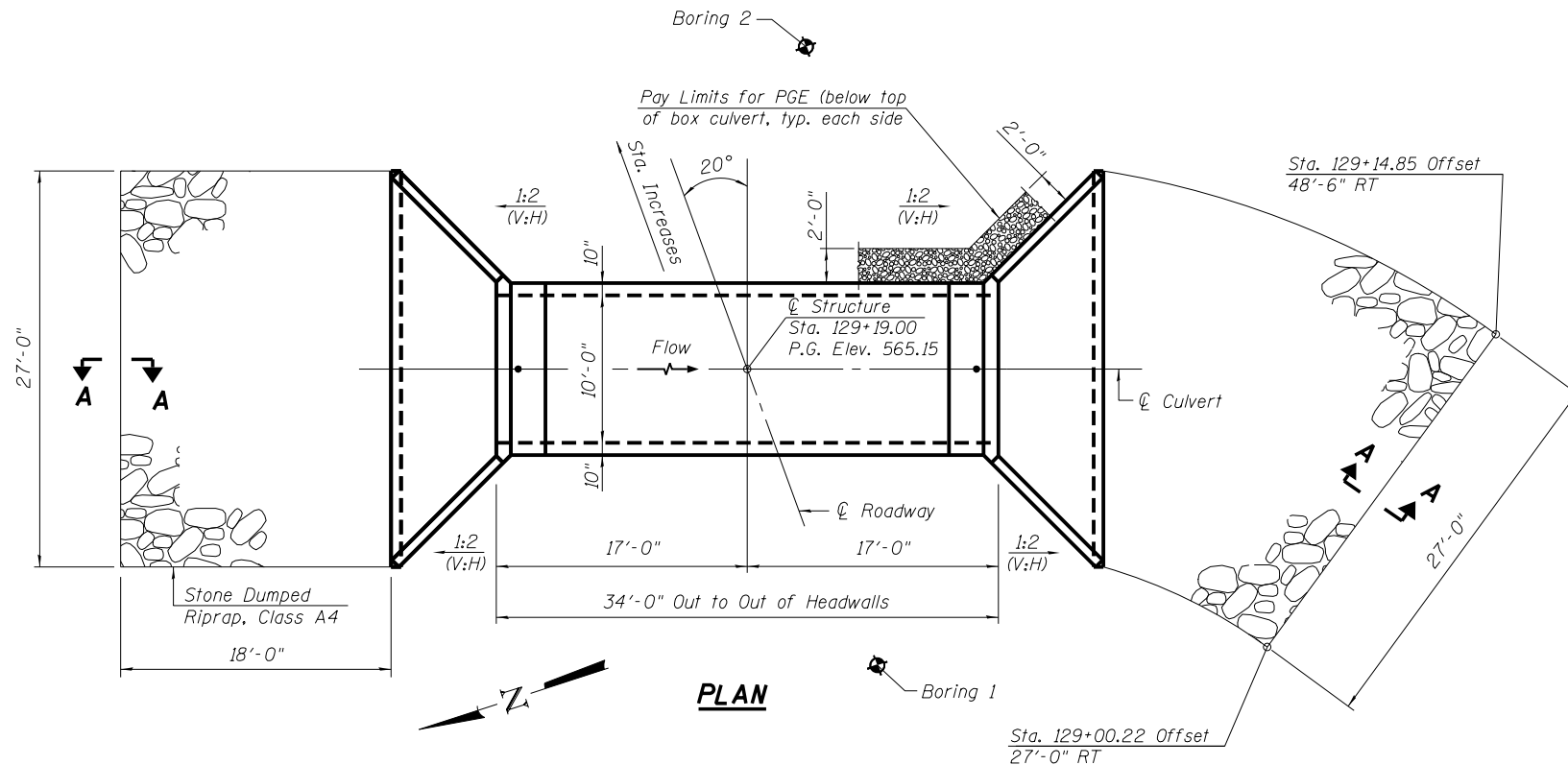
**DESIGN STRESSES**

**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

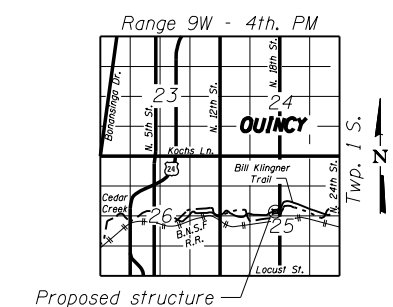
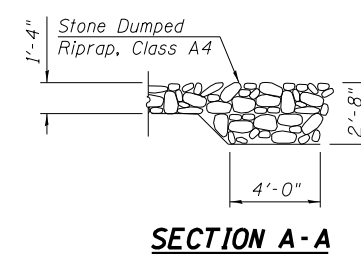


**WATERWAY INFORMATION**

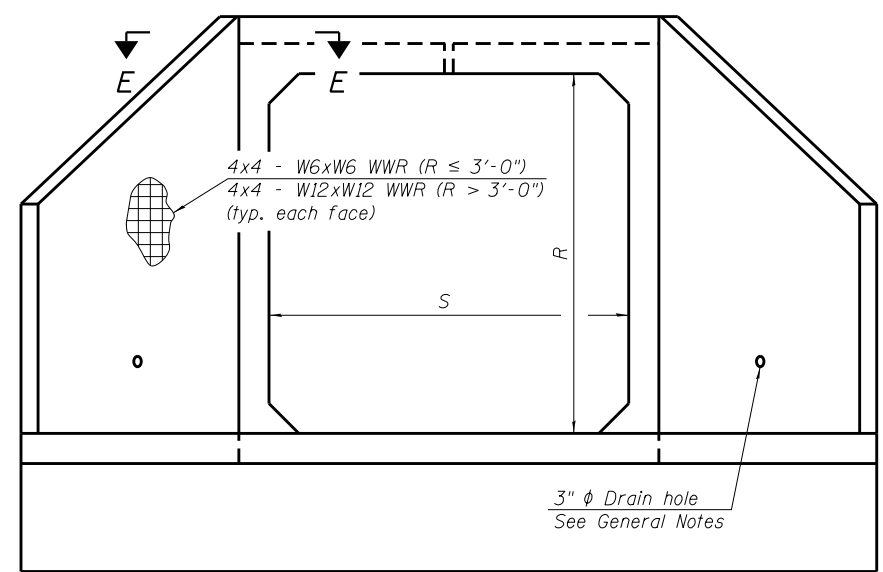
Drainage Area = 0.56 mi.<sup>2</sup> Proposed Overtopping Elev. 563.85 @ Sta. 131+25.0

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

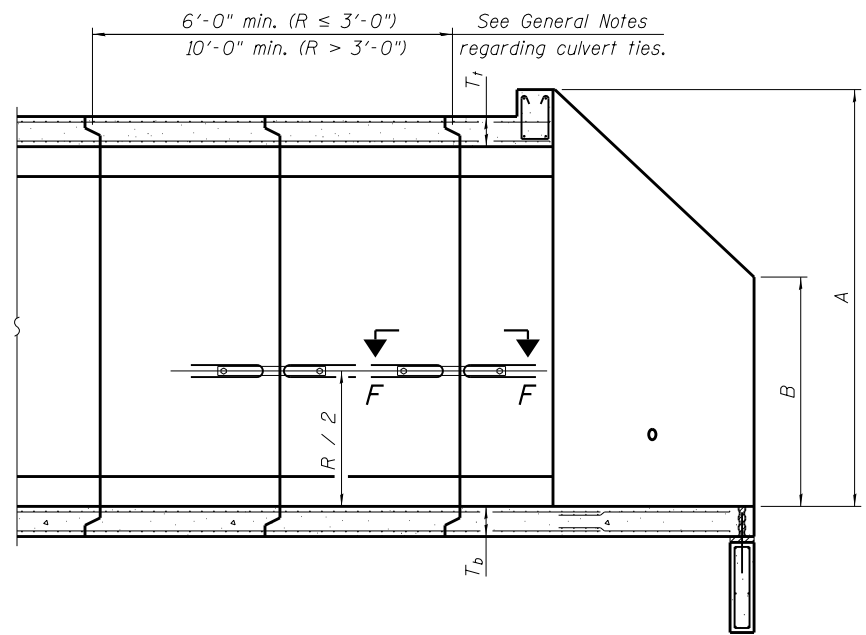
10 year velocity through proposed bridge = 6.63 ft/s  
 Natural H.W.E. controlled by backwater effects of Cedar Creek = 566.6



9:45:58 AM  
3/2/2018



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.

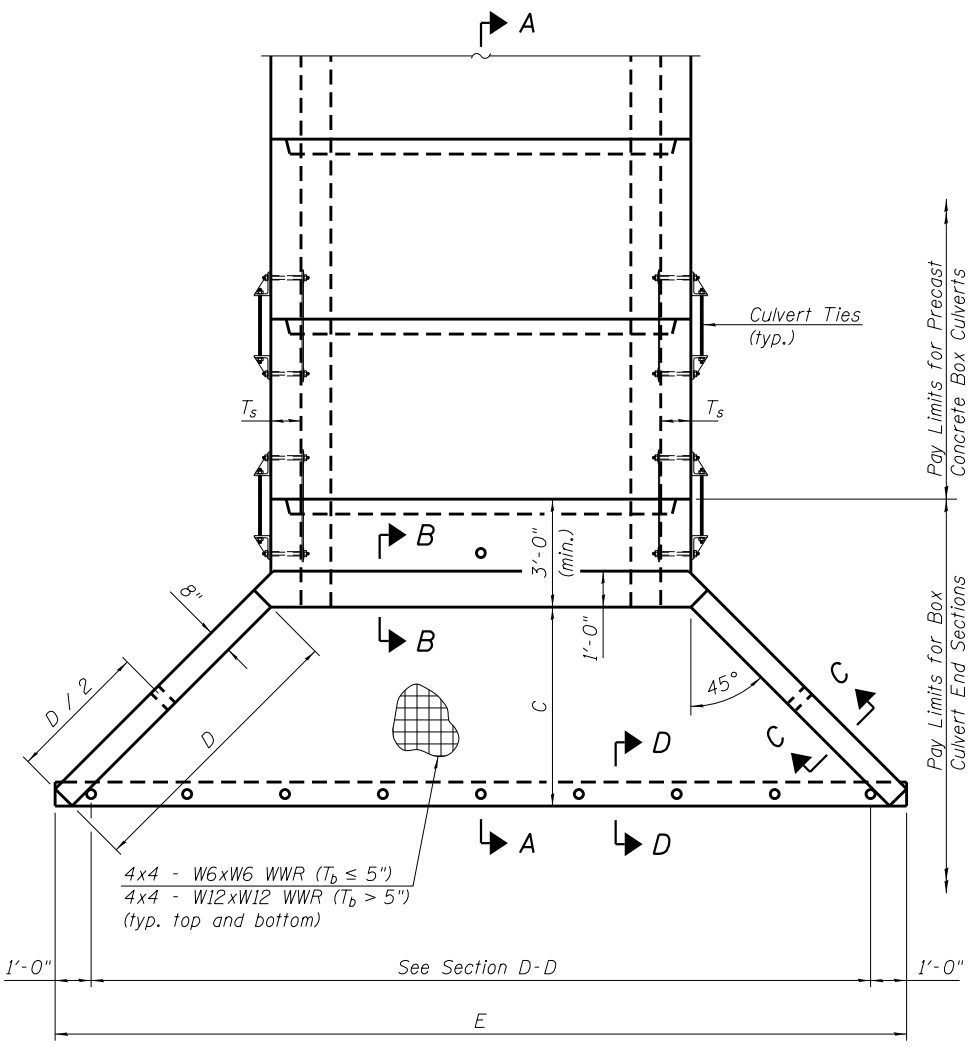
The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided 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 <sub>1</sub>	T <sub>2</sub>	T <sub>3</sub>	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 <sup>5</sup> / <sub>8</sub> "	4'-1"	10'-4 <sup>5</sup> / <sub>8</sub> "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 <sup>7</sup> / <sub>8</sub> "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	12'-4 <sup>5</sup> / <sub>8</sub> "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 <sup>7</sup> / <sub>8</sub> "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 <sup>1</sup> / <sub>2</sub> "	2'-2 <sup>1</sup> / <sub>2</sub> "	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-10"	11'-2 <sup>3</sup> / <sub>8</sub> "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 <sup>1</sup> / <sub>2</sub> "	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	13'-8 <sup>1</sup> / <sub>8</sub> "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 <sup>1</sup> / <sub>2</sub> "	5'-3"	13'-2 <sup>3</sup> / <sub>8</sub> "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 <sup>1</sup> / <sub>2</sub> "	3'-2 <sup>1</sup> / <sub>2</sub> "	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	15'-8 <sup>1</sup> / <sub>8</sub> "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 <sup>5</sup> / <sub>8</sub> "	6'-8"	15'-2 <sup>1</sup> / <sub>2</sub> "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 <sup>1</sup> / <sub>4</sub> "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	14'-7 <sup>1</sup> / <sub>4</sub> "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 <sup>1</sup> / <sub>4</sub> "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	16'-10 <sup>1</sup> / <sub>8</sub> "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 <sup>1</sup> / <sub>4</sub> "	6'-9"	16'-5 <sup>7</sup> / <sub>8</sub> "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	18'-10 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 <sup>1</sup> / <sub>4</sub> "	8'-2"	18'-5 <sup>7</sup> / <sub>8</sub> "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 <sup>5</sup> / <sub>8</sub> "	4'-1"	13'-10 <sup>5</sup> / <sub>8</sub> "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	16'-0 <sup>1</sup> / <sub>8</sub> "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	15'-10 <sup>5</sup> / <sub>8</sub> "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	18'-0 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 <sup>3</sup> / <sub>4</sub> "	6'-11"	17'-10 <sup>3</sup> / <sub>4</sub> "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	20'-0 <sup>1</sup> / <sub>8</sub> "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 <sup>3</sup> / <sub>4</sub> "	8'-4"	19'-10 <sup>3</sup> / <sub>4</sub> "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	22'-0 <sup>1</sup> / <sub>4</sub> "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 <sup>3</sup> / <sub>4</sub> "	9'-9"	21'-10 <sup>3</sup> / <sub>4</sub> "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	17'-2 <sup>1</sup> / <sub>8</sub> "	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	19'-2 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	21'-2 <sup>1</sup> / <sub>8</sub> "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	23'-2 <sup>1</sup> / <sub>4</sub> "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	18'-2 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	20'-2 <sup>1</sup> / <sub>8</sub> "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	22'-2 <sup>1</sup> / <sub>8</sub> "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	24'-2 <sup>1</sup> / <sub>4</sub> "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 <sup>3</sup> / <sub>4</sub> "	4'-4"	17'-6 <sup>7</sup> / <sub>8</sub> "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 <sup>3</sup> / <sub>4</sub> "	5'-9"	19'-6 <sup>7</sup> / <sub>8</sub> "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 <sup>3</sup> / <sub>4</sub> "	7'-2"	21'-6 <sup>7</sup> / <sub>8</sub> "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 <sup>7</sup> / <sub>8</sub> "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 <sup>1</sup> / <sub>8</sub> "	9'-11"	25'-5 <sup>5</sup> / <sub>8</sub> "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 <sup>1</sup> / <sub>2</sub> "	4'-5"	18'-10 <sup>1</sup> / <sub>4</sub> "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 <sup>1</sup> / <sub>2</sub> "	5'-10"	20'-10 <sup>1</sup> / <sub>4</sub> "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 <sup>1</sup> / <sub>2</sub> "	7'-3"	22'-10 <sup>3</sup> / <sub>8</sub> "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 <sup>1</sup> / <sub>2</sub> "	8'-8"	24'-10 <sup>3</sup> / <sub>8</sub> "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 <sup>1</sup> / <sub>2</sub> "	10'-1"	26'-10 <sup>3</sup> / <sub>8</sub> "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 <sup>7</sup> / <sub>8</sub> "	4'-7"	20'-3 <sup>1</sup> / <sub>8</sub> "	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 <sup>7</sup> / <sub>8</sub> "	6'-0"	22'-3 <sup>1</sup> / <sub>8</sub> "	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 <sup>1</sup> / <sub>4</sub> "	7'-4"	24'-1 <sup>3</sup> / <sub>4</sub> "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 <sup>1</sup> / <sub>4</sub> "	8'-9"	26'-1 <sup>3</sup> / <sub>4</sub> "	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 <sup>1</sup> / <sub>4</sub> "	10'-2"	28'-1 <sup>7</sup> / <sub>8</sub> "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 <sup>5</sup> / <sub>8</sub> "	4'-8"	21'-6 <sup>2</sup> / <sub>2</sub> "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 <sup>5</sup> / <sub>8</sub> "	6'-1"	23'-6 <sup>1</sup> / <sub>2</sub> "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 <sup>5</sup> / <sub>8</sub> "	7'-6"	25'-6 <sup>5</sup> / <sub>8</sub> "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 <sup>5</sup> / <sub>8</sub> "	8'-11"	27'-6 <sup>5</sup> / <sub>8</sub> "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 <sup>5</sup> / <sub>8</sub> "	10'-4"	29'-6 <sup>5</sup> / <sub>8</sub> "	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)



USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 3/2/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

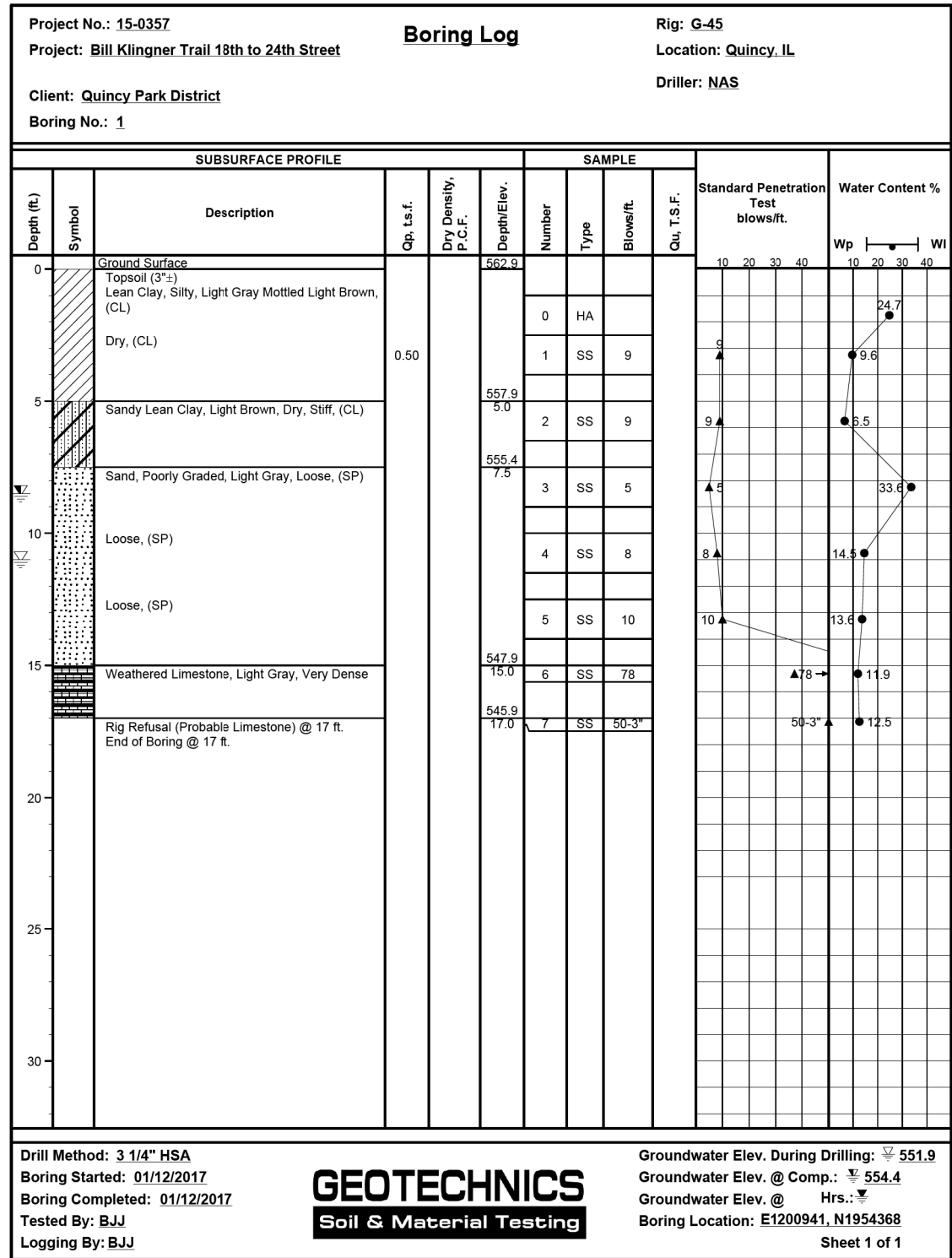
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	56
CONTRACT NO. 93711				

SHEET NO. 2 OF 4 SHEETS

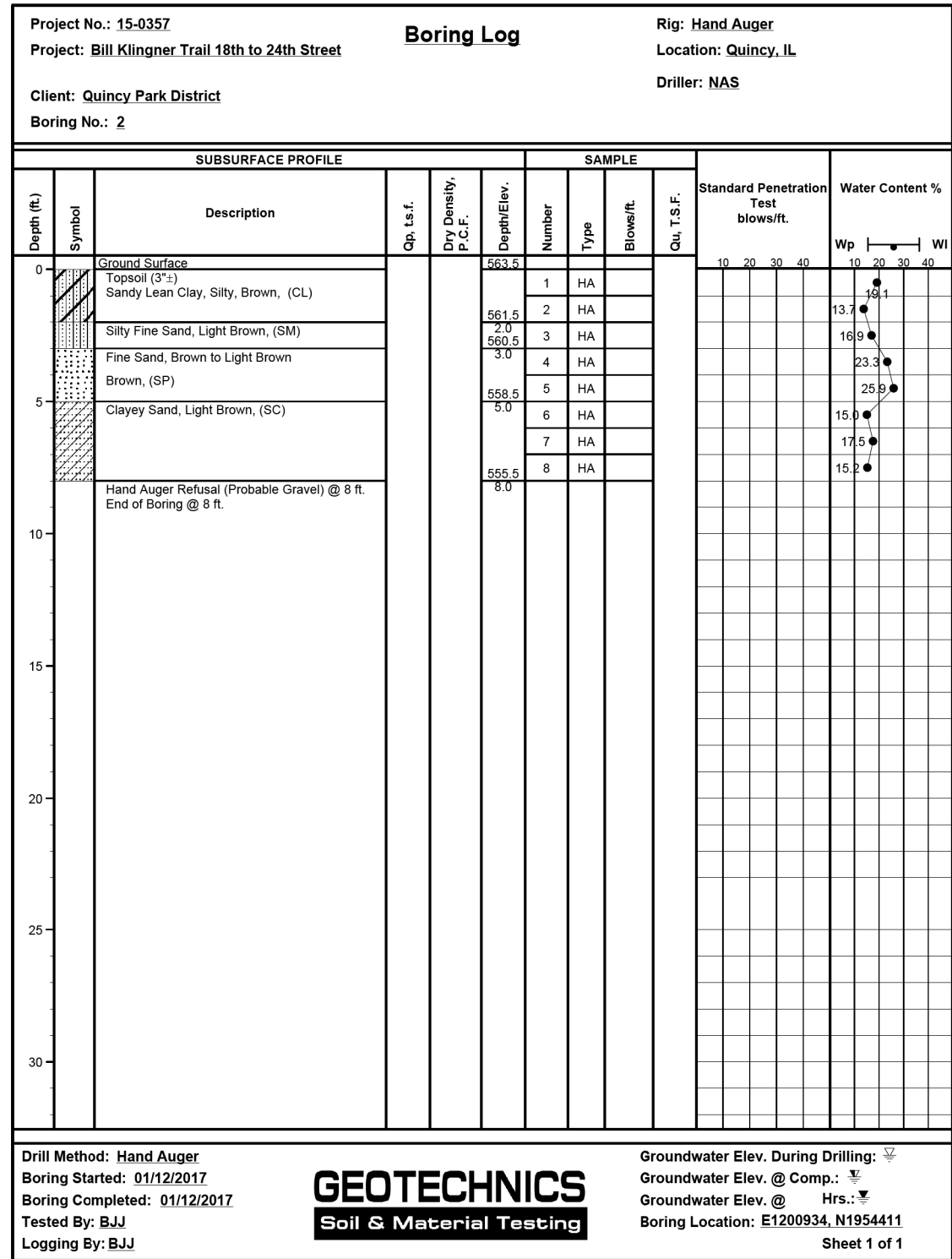
ILLINOIS FED. AID PROJECT  
Klingner & Associates P.C.







BORING 1



BORING 2

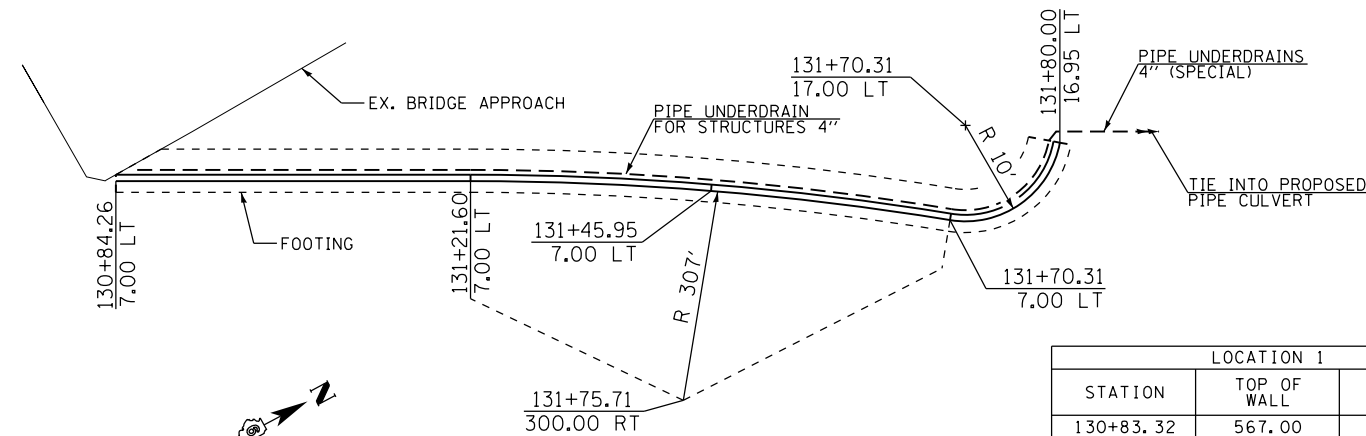
USER NAME = oms	DESIGNED - AMS	REVISED -
PLOT SCALE = 24.9995' / in.	CHECKED - RJP	REVISED -
PLOT DATE = 3/2/2018	DRAWN - AMS	REVISED -
	CHECKED - RJP	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	58
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

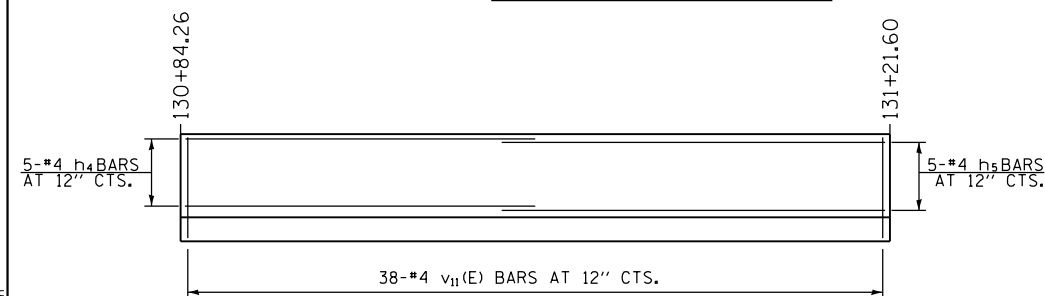
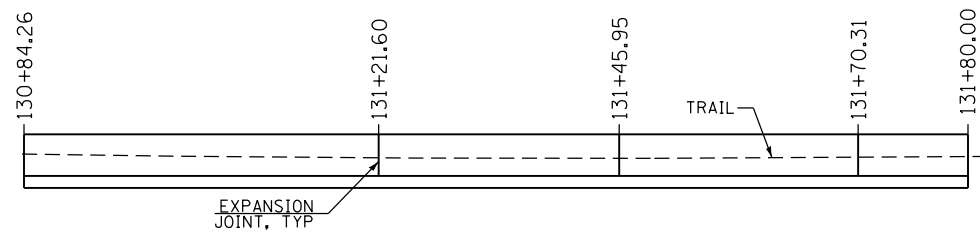
BENCHMARK: RAILROAD SPIKE IN EAST FACE OF POWER POLE ON THE NORTH SIDE OF CEDAR CREEK AND WEST SIDE OF NORTH 18TH STREET-ELEV. 565.15.

**GENERAL NOTES**

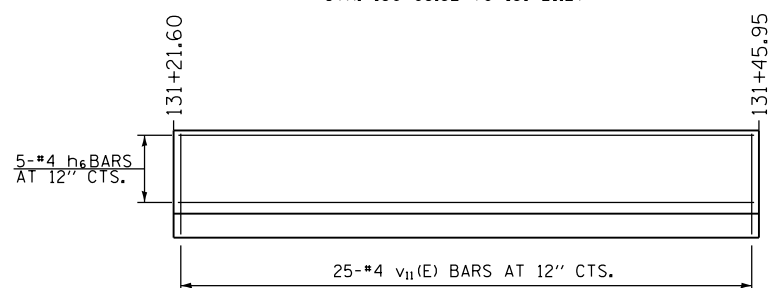
NO FIELD WELDING IS PERMITTED EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS.  
 REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.  
 REINFORCEMENT BARS SHALL BE FIELD BENDED, AS NEEDED.



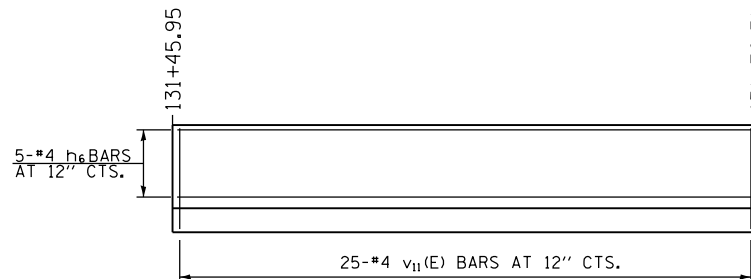
LOCATION 1		
STATION	TOP OF WALL	TOP OF FOOTING
130+83.32	567.00	562.00
131+21.27	567.00	562.00
131+70.31	567.00	562.00
131+80.00	567.00	562.00



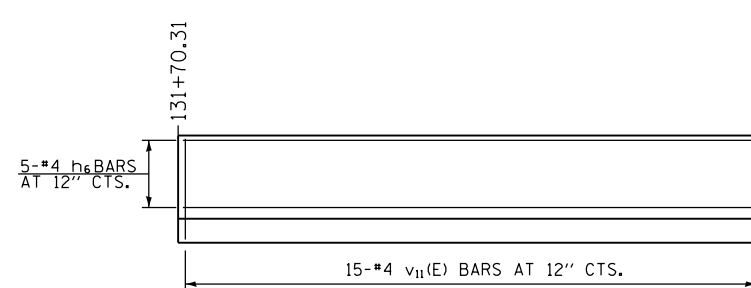
**WALL REINFORCEMENT LAYOUT**  
 (LOOKING NORTHWEST UNFOLDED ALONG FRONT FACE OF WALL)  
 STA. 130+83.32 TO 131+21.27



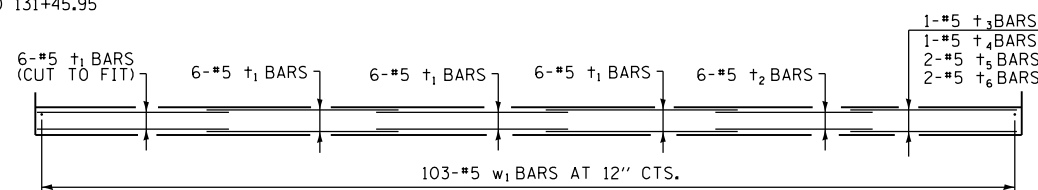
**WALL REINFORCEMENT LAYOUT**  
 (LOOKING NORTHWEST UNFOLDED ALONG FRONT FACE OF WALL)  
 STA. 131+21.27 TO 131+45.95



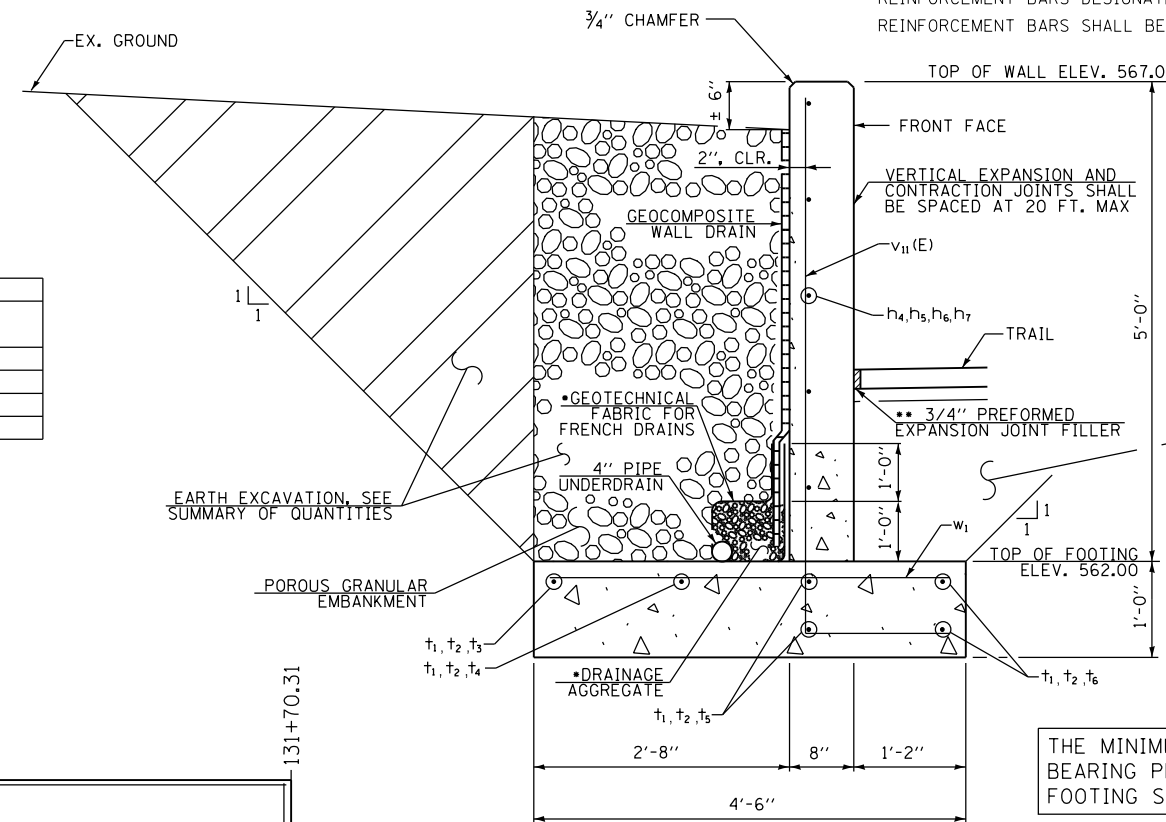
**WALL REINFORCEMENT LAYOUT**  
 (LOOKING NORTHWEST UNFOLDED ALONG FRONT FACE OF WALL)  
 STA. 131+45.95 TO 131+70.31



**WALL REINFORCEMENT LAYOUT**  
 (LOOKING NORTHWEST UNFOLDED ALONG FRONT FACE OF WALL)  
 STA. 131+70.31 TO 131+80.00



**FOOTING REINFORCEMENT LAYOUT**  
 (LOOKING NORTHWEST UNFOLDED ALONG FRONT FACE OF WALL)  
 STA. 130+83.32 TO 131+80.00



**REINFORCED CONCRETE WALL SECTION**  
 (LOOKING UPSTATION)

THE MINIMUM ALLOWABLE SOIL BEARING PRESSURE BELOW THE FOOTING SHALL BE 1,500 PSF

**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h4	5	#4	18'-9"	—
h5	5	#4	20'-7"	—
h6	10	#4	24'-9"	—
h7	5	#4	14'-8"	—
t1	24	#5	20'-0"	—
t2	6	#5	16'-5"	—
t3	1	#5	13'-1"	—
t4	1	#5	15'-0"	—
t5	2	#5	17'-0"	—
t6	2	#5	18'-7"	—
v11(E)	103	#4	7'-0"	—
w1	103	#5	4'-2"	—
CONCRETE STRUCTURES (RETAINING WALL)			CU. YD.	29.3
REINFORCEMENT BARS, EPOXY COATED			POUND	480
REINFORCEMENT BARS			POUND	1500
GEOCOMPOSITE WALL DRAIN			SQ. YD.	52
PIPE UNDERDRAIN FOR STRUCTURES 4"			FOOT	100
PIPE UNDERDRAINS 4" (SPECIAL)			FOOT	45
POROUS GRANULAR EMBANKMENT			CU. YD.	46

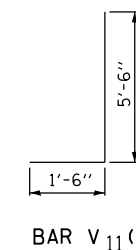
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS  
 7TH EDITION WITH 2015 AND 2016 INTERIMS

**DESIGN STRESSES**

f'c = 3,500 psi  
 fy = 60,000 psi (REINFORCEMENT)



FILE NAME = D:\Projects\160957\05\Plans\Current\1001 - Retaining Wall\Location 1.dwg

**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 = oms	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CONCRETE RETAINING WALL DETAILS  
 LOCATION 1

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	59
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



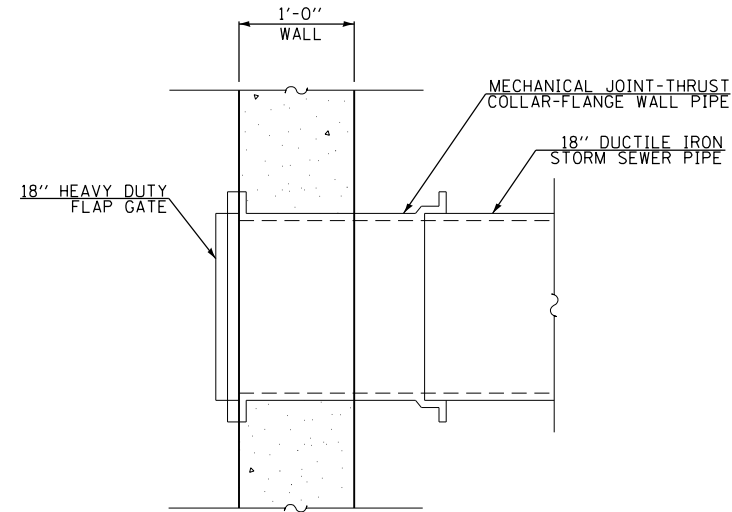
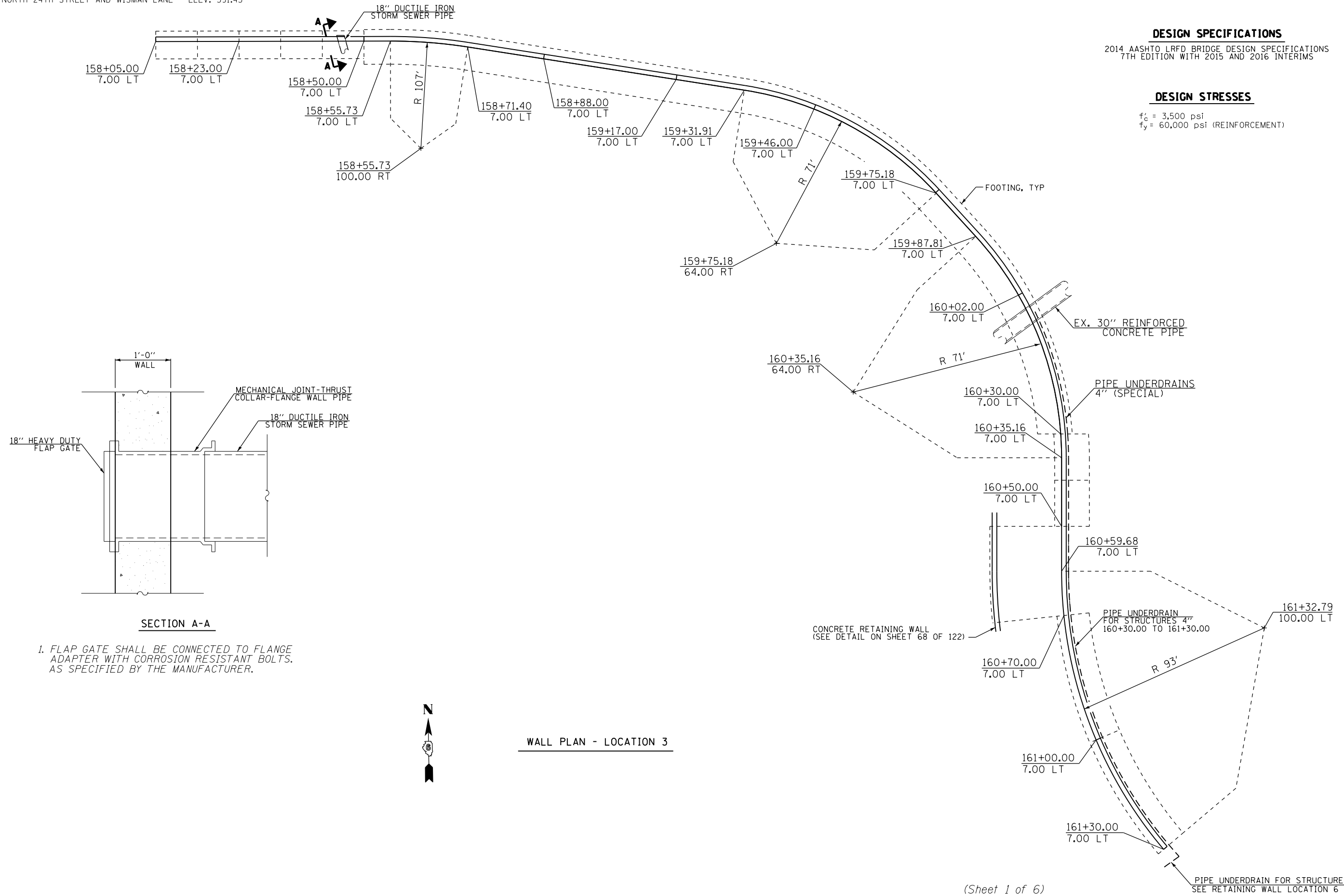


BENCHMARK: CHISELED "I" ON WEST SIDE OF TRAFFIC SIGNAL POLE  
IN ISLAND AT NORTH 24TH STREET AND WISMAN LANE - ELEV. 591.45

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS  
7TH EDITION WITH 2015 AND 2016 INTERIMS

**DESIGN STRESSES**

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



**SECTION A-A**

1. FLAP GATE SHALL BE CONNECTED TO FLANGE ADAPTER WITH CORROSION RESISTANT BOLTS, AS SPECIFIED BY THE MANUFACTURER.



**WALL PLAN - LOCATION 3**

(Sheet 1 of 6)

FILE NAME = D:\15\156957\06\Plans\Current\1001 - Retaining Wall Location 3.dgn

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Engineers • Architects • Surveyors  
616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-3670  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

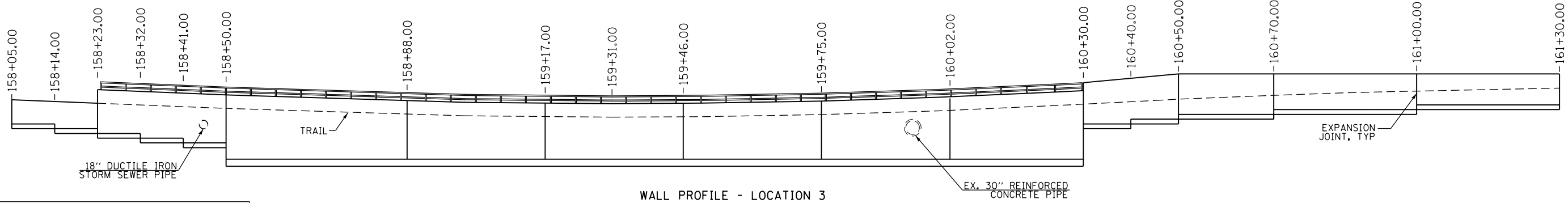
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PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE RETAINING WALL DETAILS  
LOCATION 3**

SCALE: NONE SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	62
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

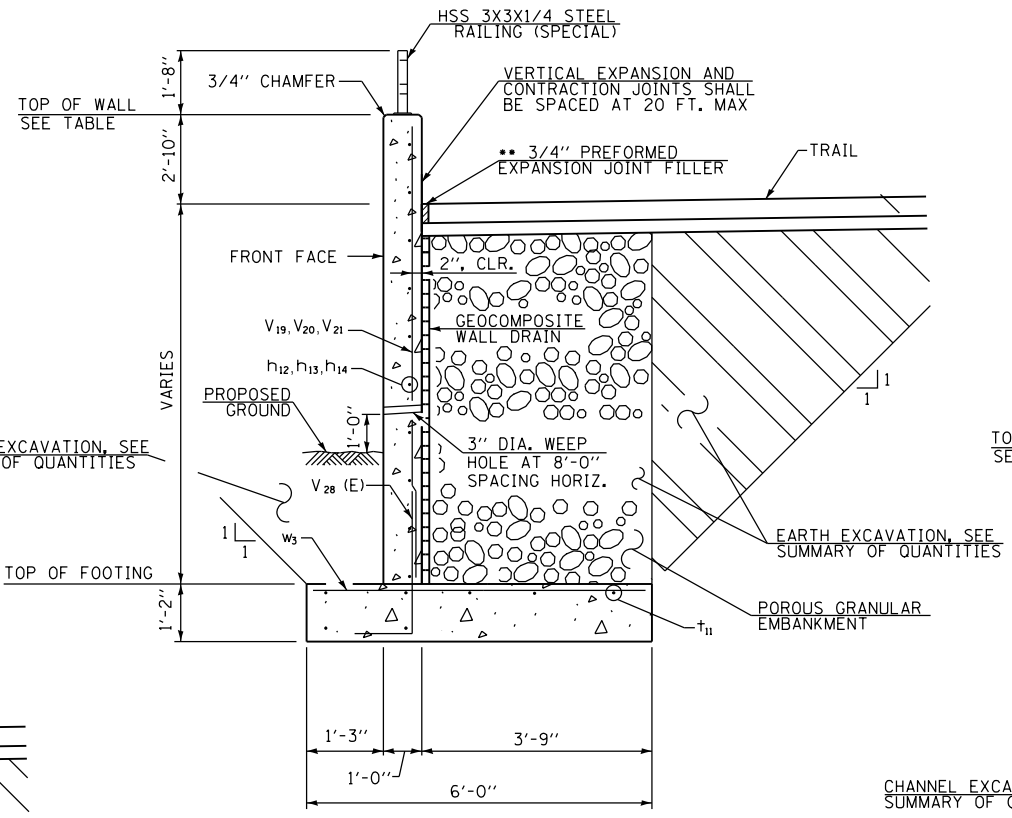


LOCATION 3		
STATION	TOP OF WALL	TOP OF FOOTING
158+05.00	576.08	571.00
158+14.00	575.72	570.00
158+23.00	575.35	570.00
158+23.00	578.18	569.00
158+32.00	577.88	568.00
158+41.00	577.59	567.00
158+50.00	577.29	± 563.60
158+88.00	575.77	± 563.60
159+17.00	574.94	± 563.60
159+31.00	574.81	± 563.60
159+46.00	574.86	± 563.60
159+75.00	575.54	± 563.60
160+02.00	576.79	± 563.60
160+30.00	578.19	± 563.60
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 TOP OF ROCK. THE ACTUAL ELEVATIONS MAY DIFFER ALONG WALL AND CORRESPONDING ADJUSTMENTS SHALL BE MADE

**NOTES**

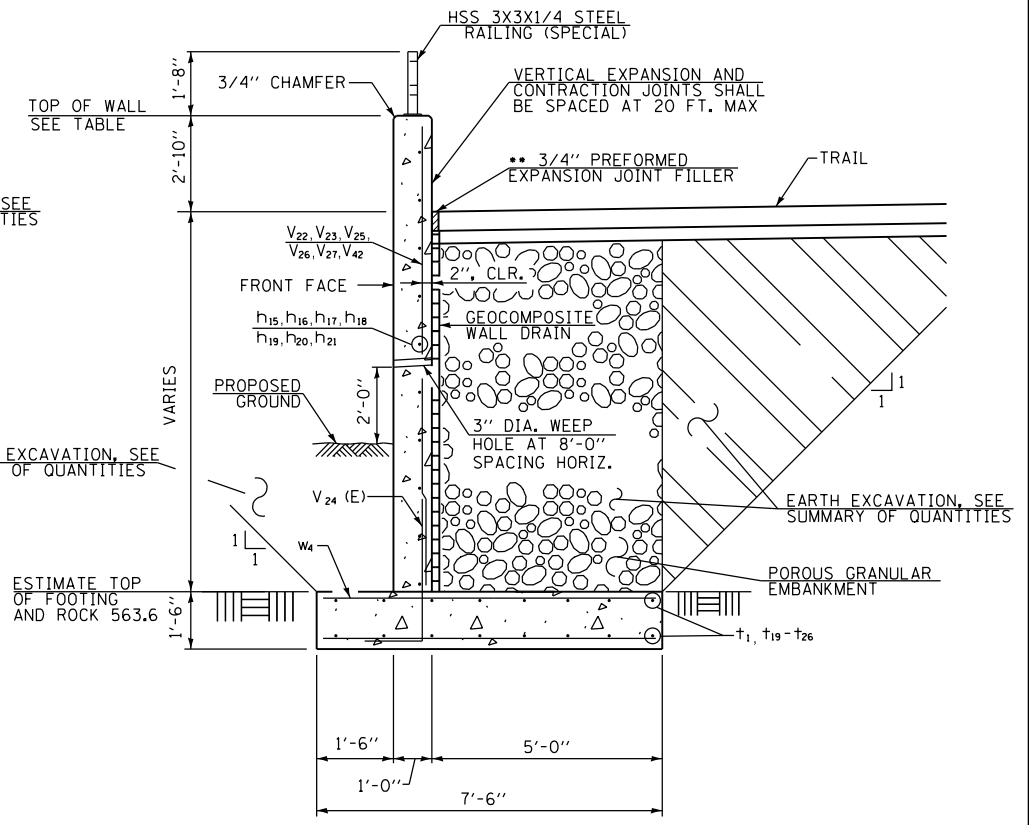
- SEE SHEET 6 OF 6 FOR HSS 3X3X1/4 STEEL RAILING (SPECIAL) DETAILS
- WEEP HOLES SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS
- A DOUBLE LAYER OF 12"X12" NONWOVEN GEOTEXTILE FABRIC SHALL BE CENTERED OVER THE DRAIN HOLE. THE PERIMETER OF THE FABRIC SHALL BE SEALED 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

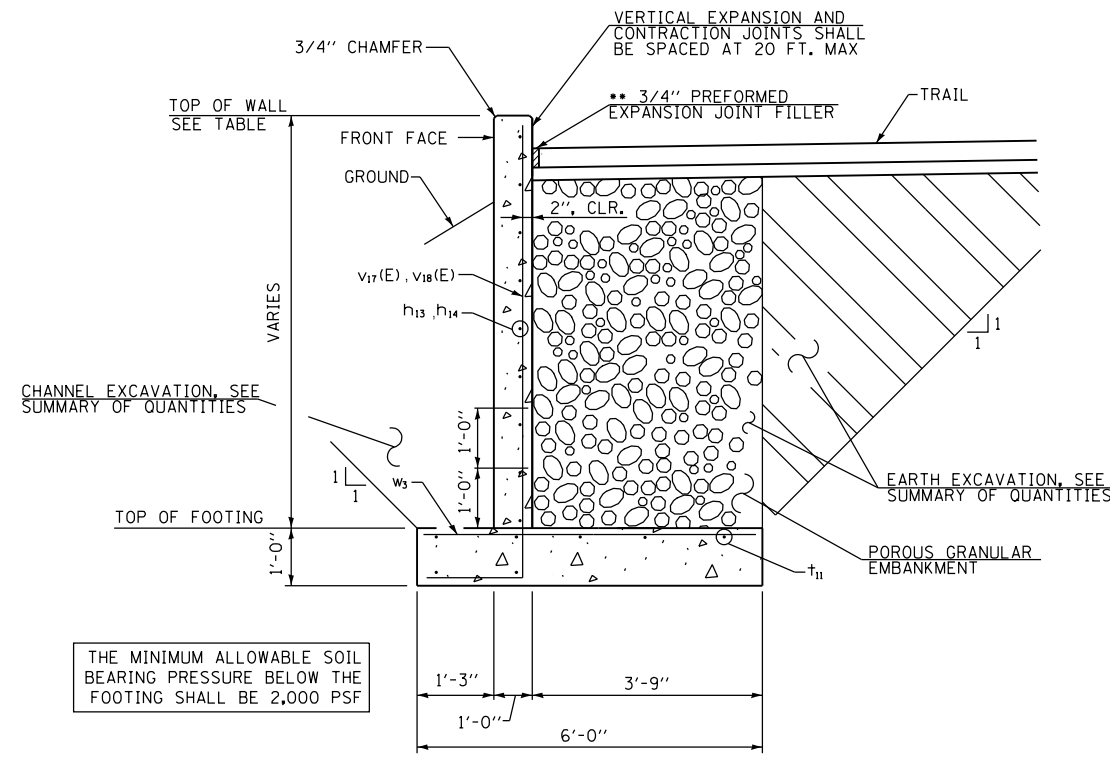
THE MINIMUM ALLOWABLE SOIL BEARING PRESSURE BELOW THE FOOTING SHALL BE 2,000 PSF

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



**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

(Sheet 2 of 6)

FILE NAME = D:\Projects\1580557\05.Plan\Current\1\DOT1 - 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

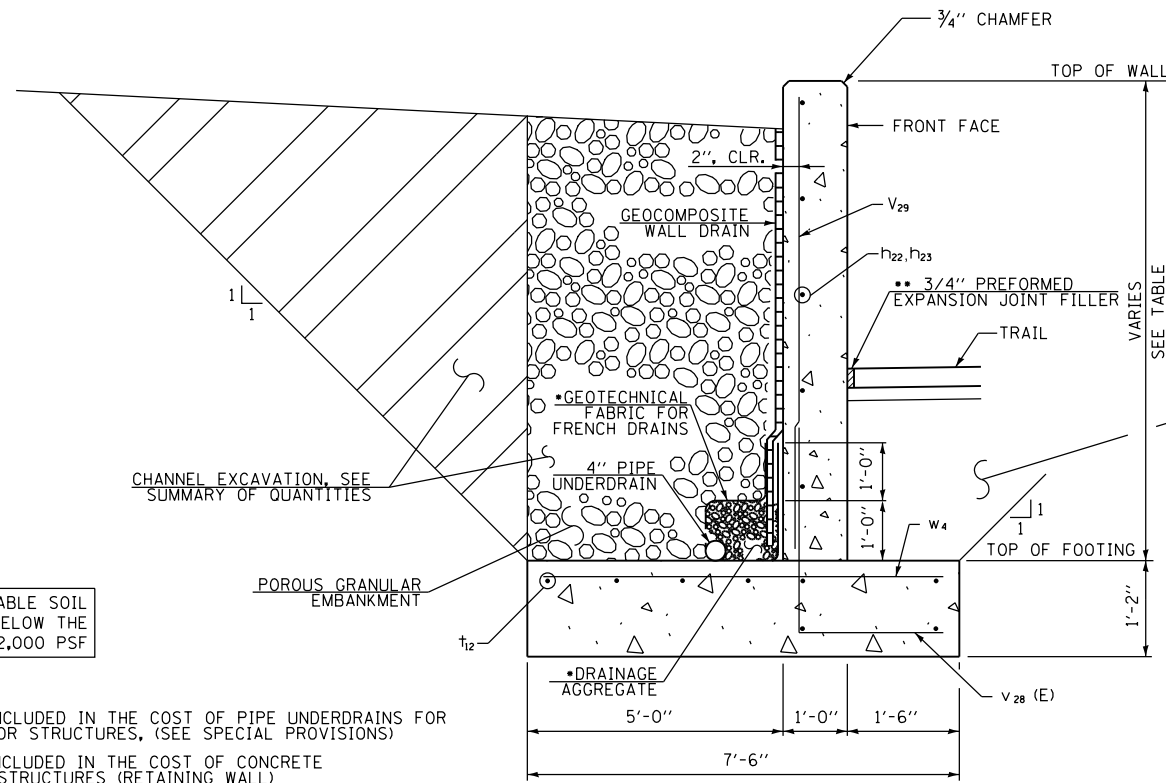
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PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

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

**CONCRETE RETAINING WALL DETAILS**  
**LOCATION 3**

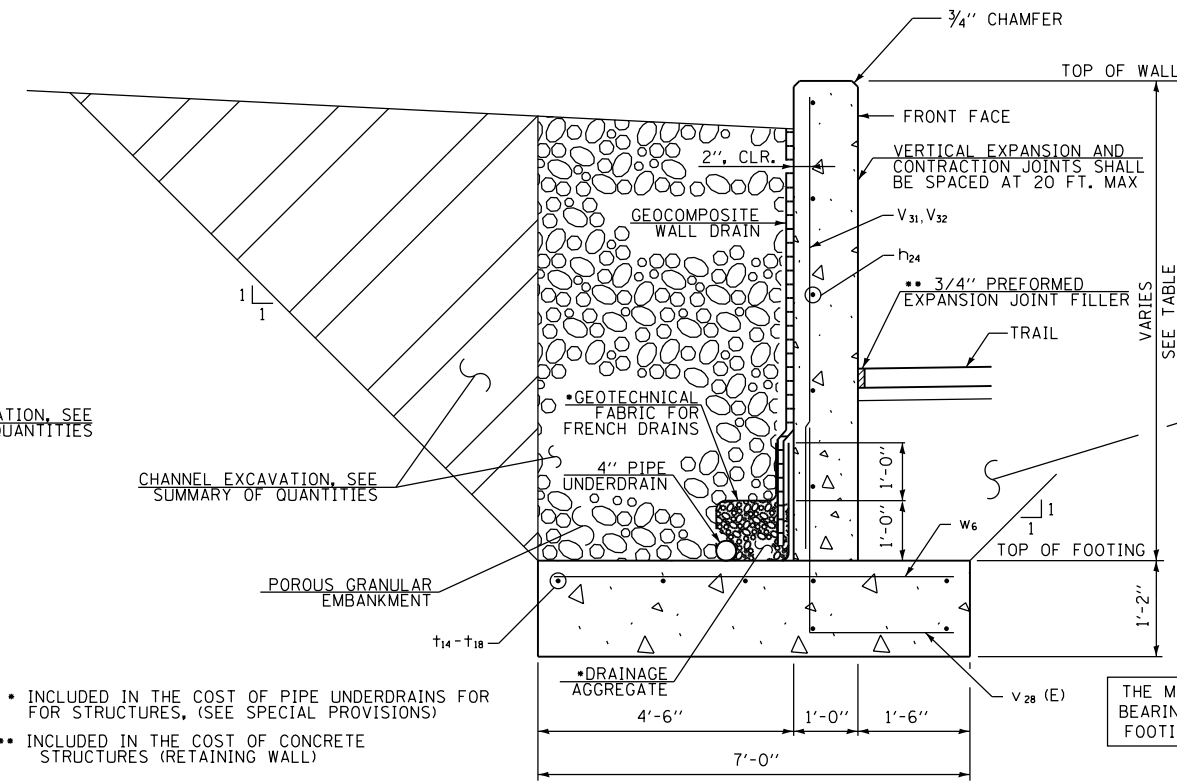
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	63
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



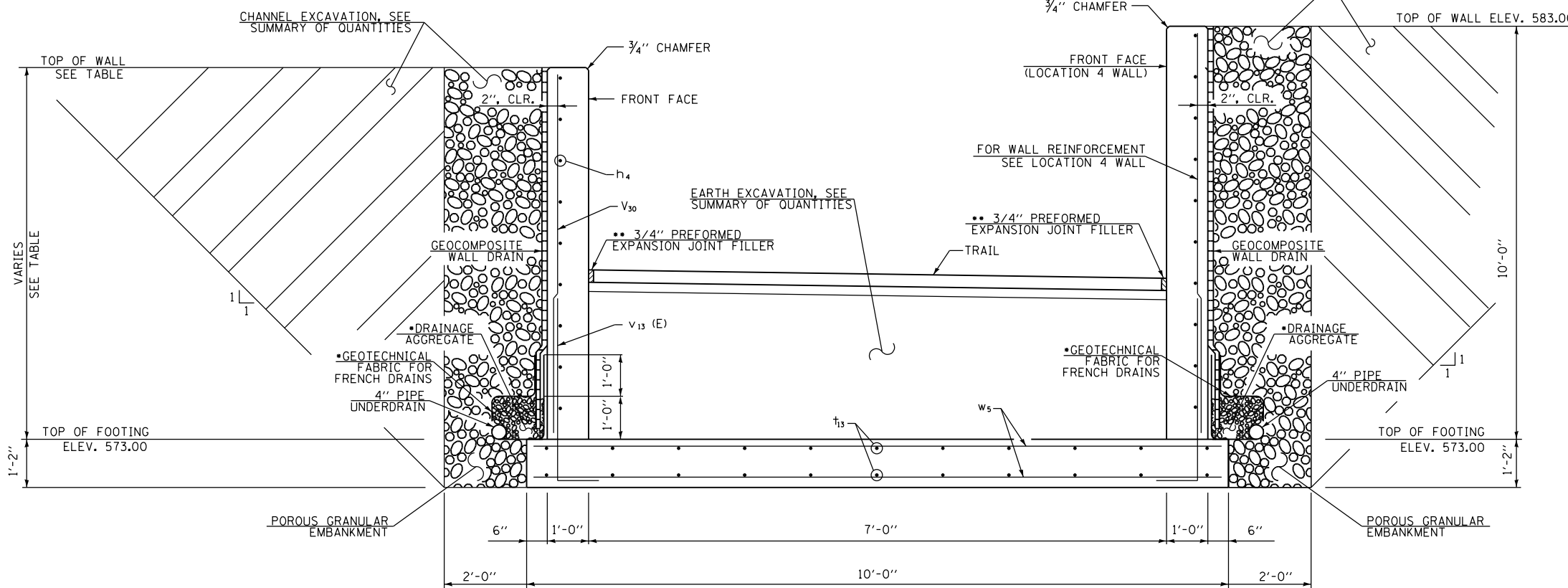
REINFORCED CONCRETE WALL SECTION

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

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

- INCLUDED IN THE COST OF PIPE UNDERDRAINS FOR 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

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

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

(Sheet 3 of 6)

FILE NAME = D:\15\150957A\05\Plans\Current\1\001 - 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 = oms	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

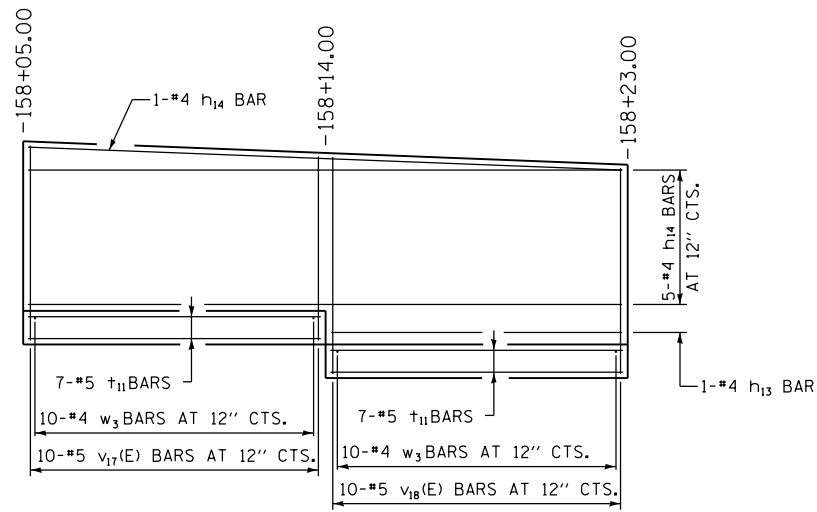
**CONCRETE RETAINING WALL DETAILS  
LOCATION 3**

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

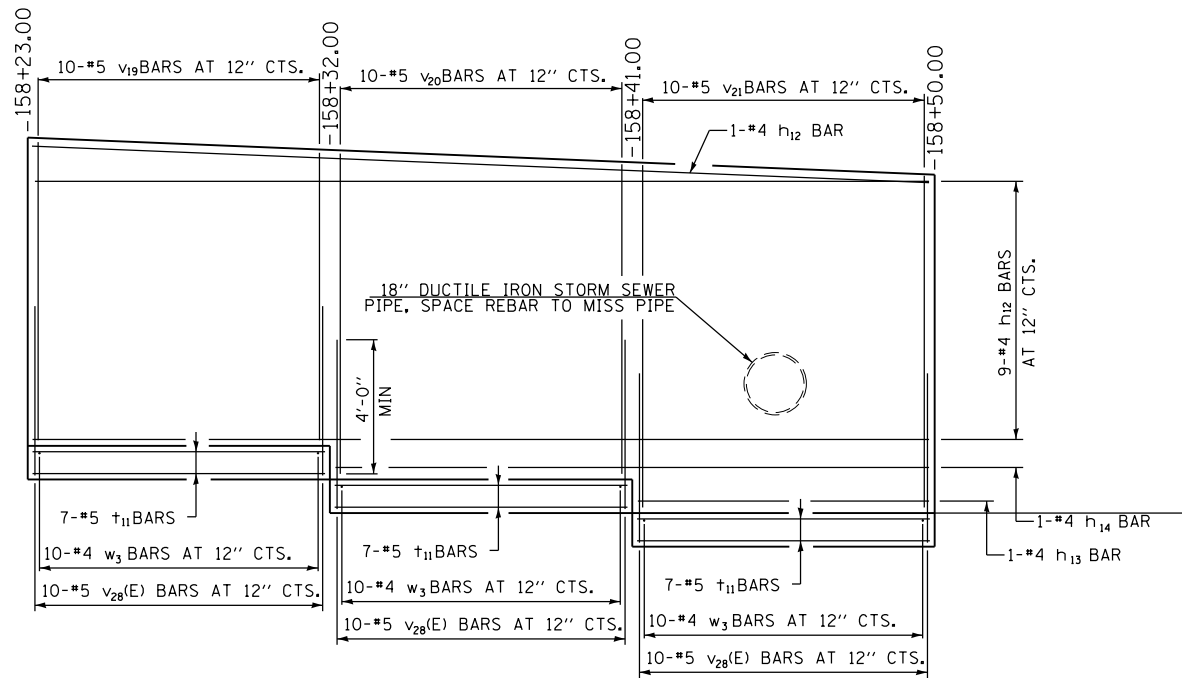
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	64
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				



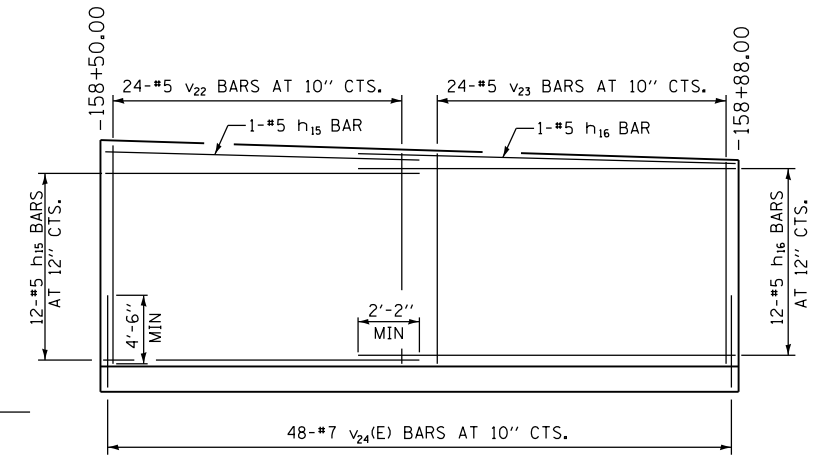
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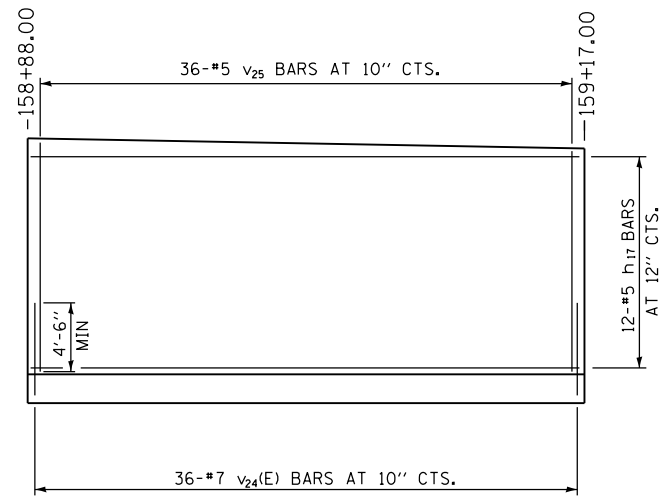
**REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 158+05.00 TO 158+23.00



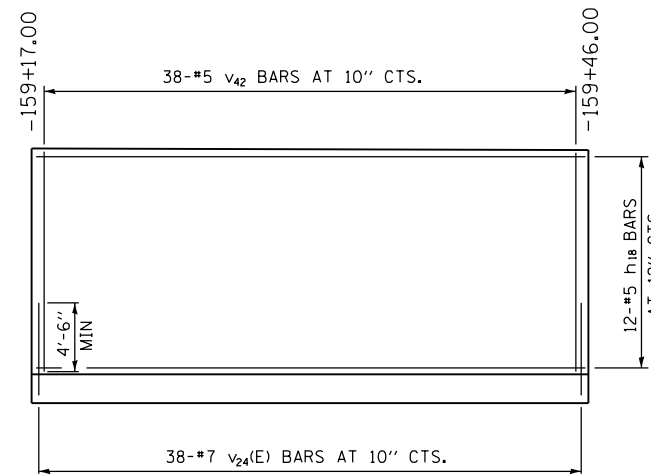
**REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 158+23.00 TO 158+50.00



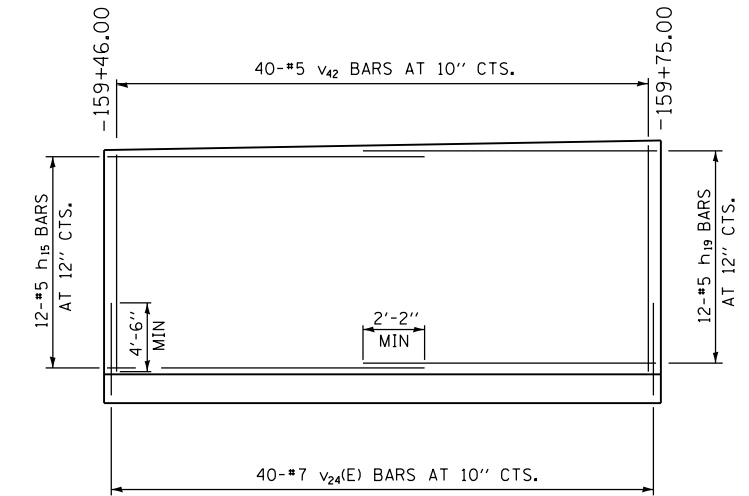
**WALL REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 158+50.00 TO 158+88.00



**WALL REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 158+88.00 TO 159+17.00



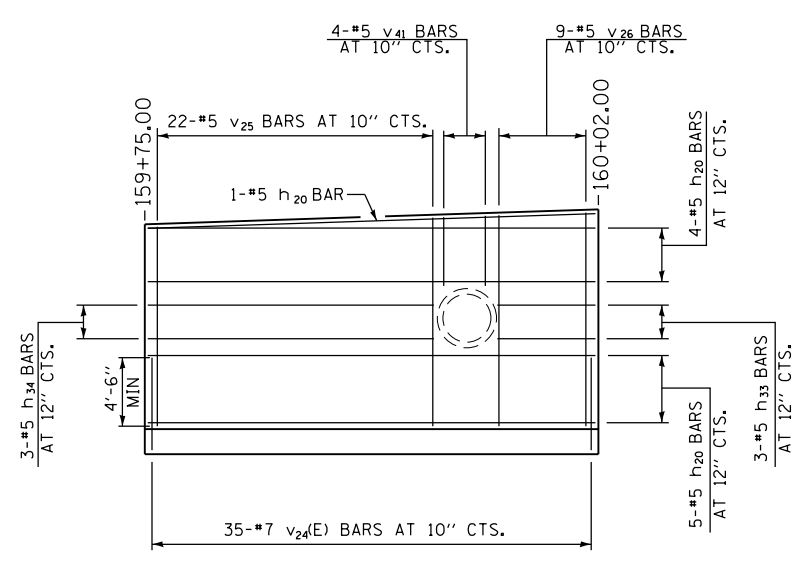
**WALL REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 159+17.00 TO 159+46.00



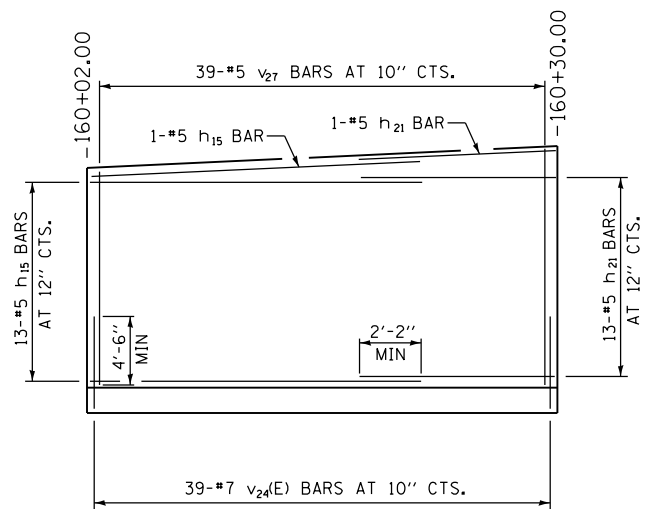
**WALL REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 159+46.00 TO 159+75.00

(Sheet 4 of 6)

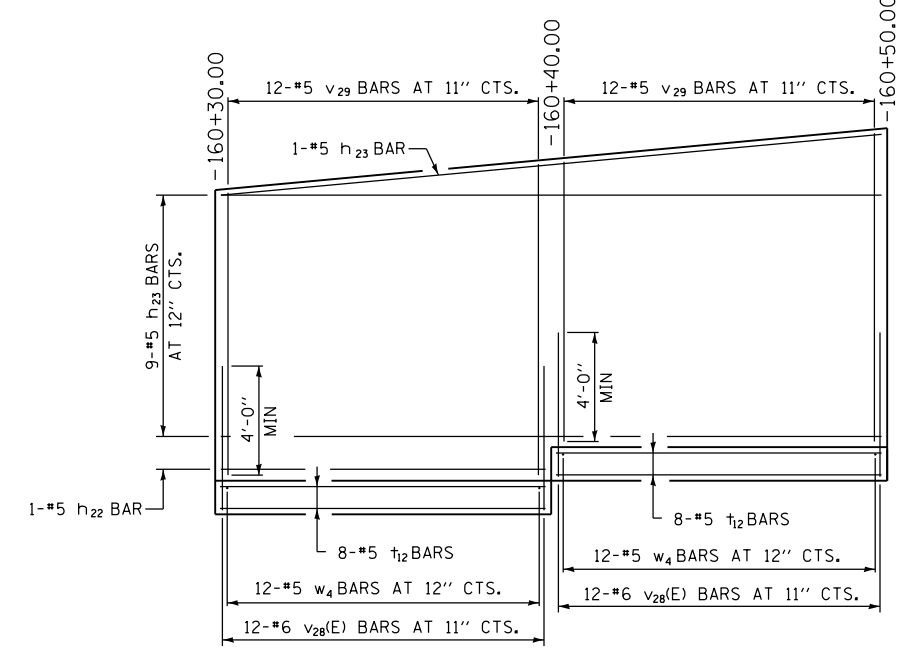
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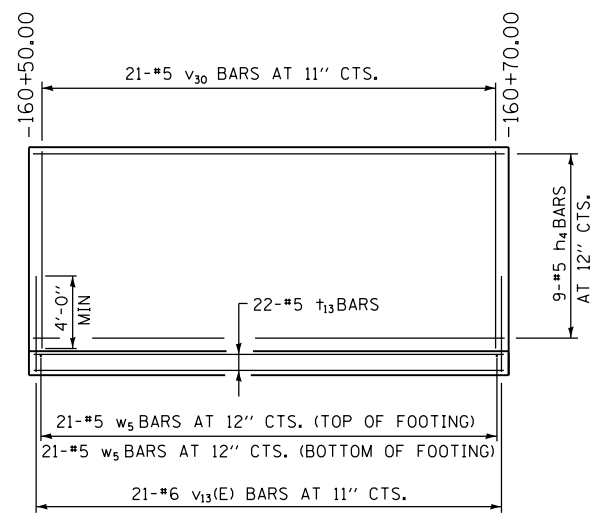
**WALL REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 159+75.00 TO 160+02.00



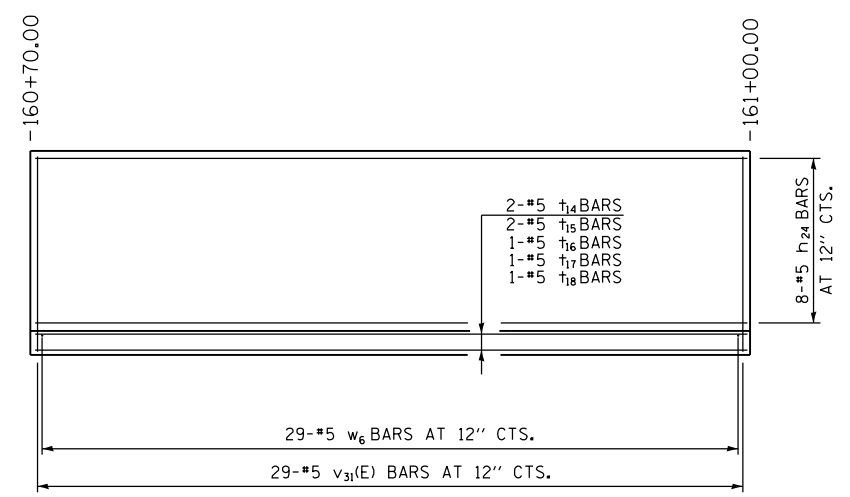
**WALL REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG BACK FACE OF WALL)  
STA. 160+02.00 TO 160+30.00



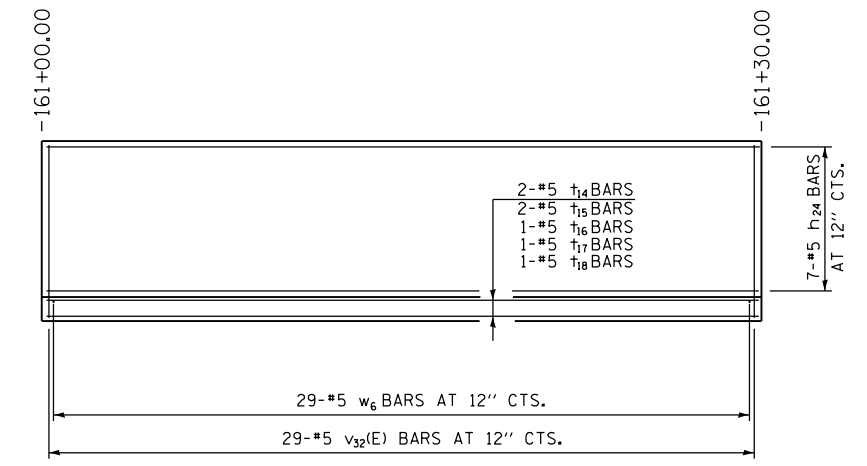
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(LOOKING UNFOLDED ALONG FRONT FACE OF WALL)  
STA. 160+30.00 TO 160+50.00



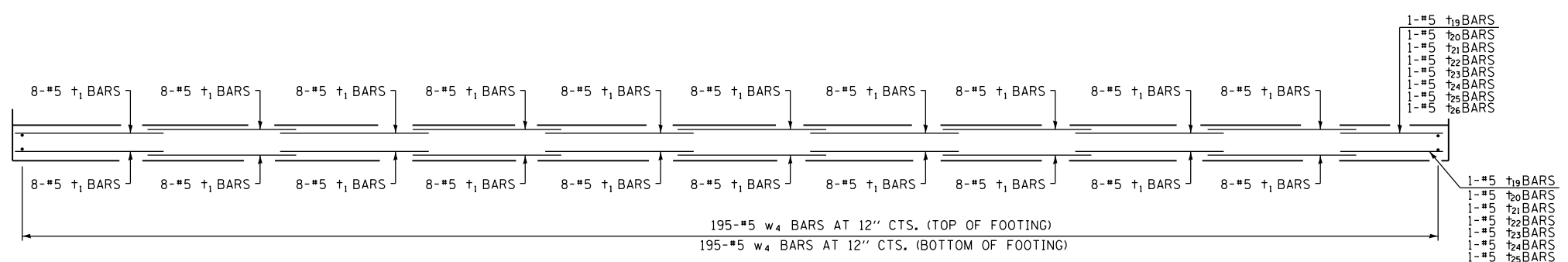
**REINFORCEMENT LAYOUT**  
(LOOKING UNFOLDED ALONG FRONT FACE OF WALL)  
STA. 160+50.00 TO 160+70.00



**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 = oms	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	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	122	66
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

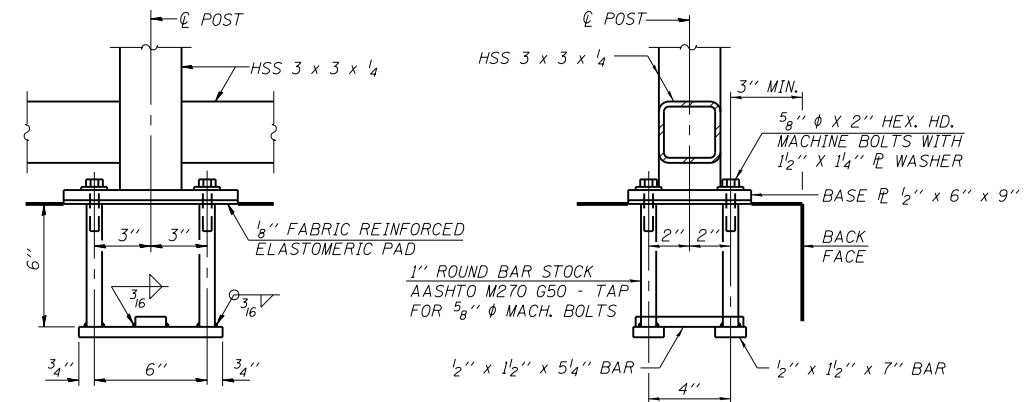
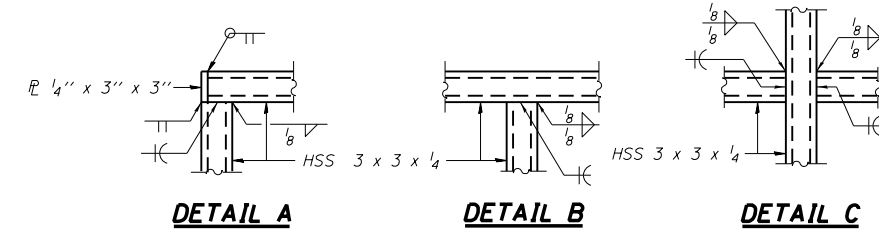
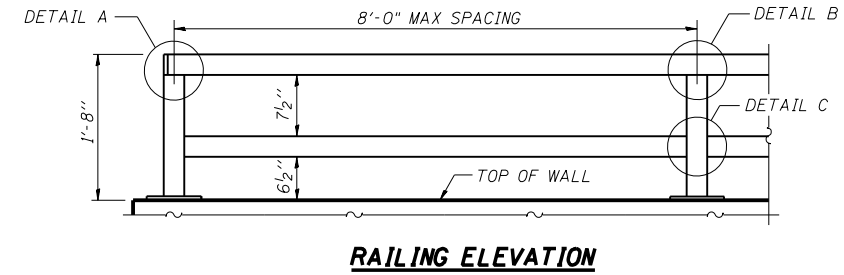
BAR	NO.	SIZE	LENGTH	SHAPE
h4	9	#5	18'-9"	
h12	10	#4	26'-8"	
h13	2	#4	8'-8"	
h14	7	#4	17'-8"	
h15	39	#5	20'-0"	
h16	13	#5	21'-0"	
h17	12	#5	28'-8"	
h18	12	#5	30'-3"	
h19	12	#5	14'-2"	
h20	10	#5	28'-3"	
h21	14	#5	13'-6"	
h22	1	#5	9'-8"	
h23	10	#5	19'-8"	
h24	15	#5	27'-3"	
h33	3	#5	5'-8"	
h34	3	#5	17'-0"	
t1	160	#5	20'-0"	
t11	35	#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	2	#5	14'-2"	
t21	2	#5	12'-6"	
t22	2	#5	11'-0"	
t23	2	#5	9'-5"	
t24	2	#5	7'-10"	
t25	2	#5	6'-3"	
t26	2	#5	4'-9"	
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	12'-10"	**
v23	24	#5	12'-0"	**
v24(E)	236	#7	8'-0"	**
v25	58	#5	11'-6"	**
v26	9	#5	12'-9"	**
v27	39	#5	13'-11"	**
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	11'-0"	
w3	50	#4	5'-8"	
w4	414	#5	7'-2"	
w5	42	#5	9'-8"	
w6	58	#5	6'-8"	

**BILL OF MATERIAL**

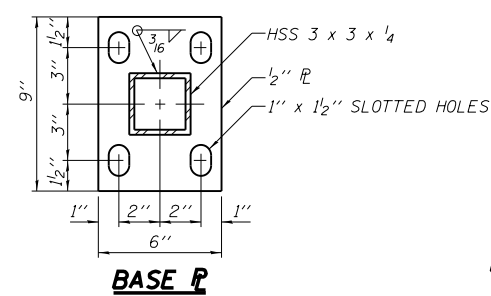
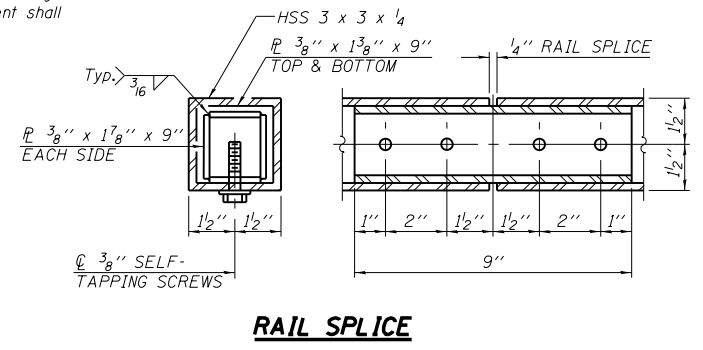
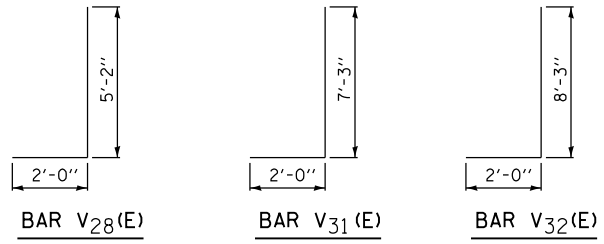
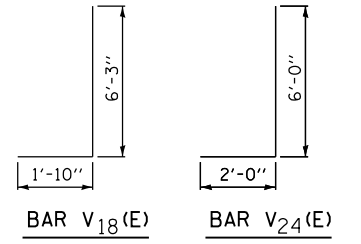
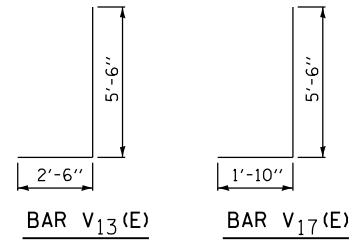
CONCRETE STRUCTURES (RETAINING WALL)	CU. YD.	255.8
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	79
REINFORCEMENT BARS, EPOXY COATED	POUND	5440
REINFORCEMENT BARS	POUND	16250
GEOCOMPOSITE WALL DRAIN	SQ. YD.	285
PIPE UNDERDRAIN FOR STRUCTURES 4"	FOOT	95
PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	28
POROUS GRANULAR EMBANKMENT	CU. YD.	457
STEEL RAILING (SPECIAL)	FOOT	219

**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 GALVANIZED ACCORDING TO ARTICLE 509.05 OF THE STANDARD SPECIFICATIONS.
- ALL STRUCTURAL STEEL TUBING, POST AND RAILING, SHALL BE CVN TESTED ACCORDING TO 1006.34(B) OF THE STANDARD SPECIFICATIONS.
- ALL STEEL RAIL ELEMENTS SHALL BE PAID FOR AS STEEL RAILING (SPECIAL)



**ANCHOR BOLT DETAILS**  
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8"  $\phi$  anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



**PARAPET RAILING ELEVATION AT EXPANSION JOINT**

- 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.

FILE NAME = D:\Projects\160955\06\Plans\Current\1001 - Retaining Wall Location 3.dgn  
 Folder: Structures\CADD Sheets\16-P4003-04-BT - Retaining Wall Location 3.dgn  
 616 N.24TH ST. QUINCY ILLINOIS 62301 217.223-5670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

**KLINGNER & ASSOCIATES, P.C.**  
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 616 N.24TH ST. QUINCY ILLINOIS 62301 217.223-5670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>CONCRETE RETAINING WALL DETAILS</b>	
<b>LOCATION 3</b>	
SCALE: NONE	SHEET 6 OF 6 SHEETS STA. TO STA.

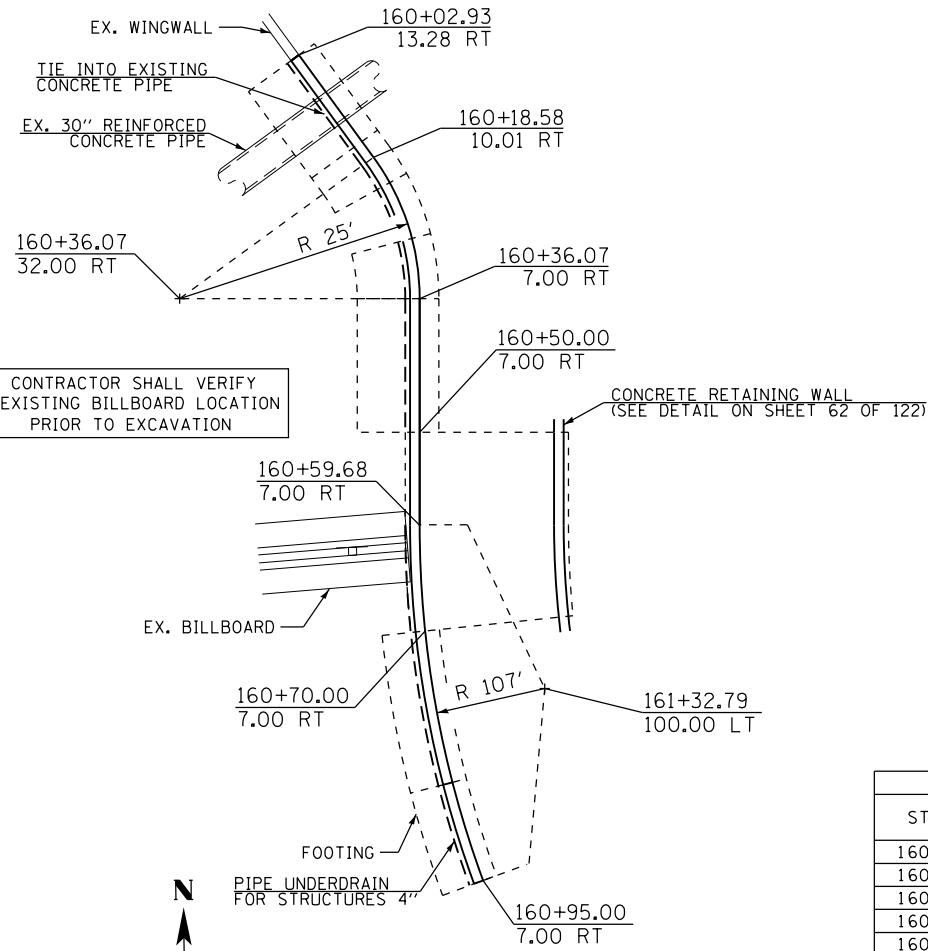
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	67
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

BENCHMARK: CHISELED "□" ON WEST SIDE OF TRAFFIC SIGNAL POLE  
IN ISLAND AT NORTH 24TH STREET AND WISMAN LANE - ELEV. 591.45

**DESIGN SPECIFICATIONS**  
2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS  
7TH EDITION WITH 2015 AND 2016 INTERIMS

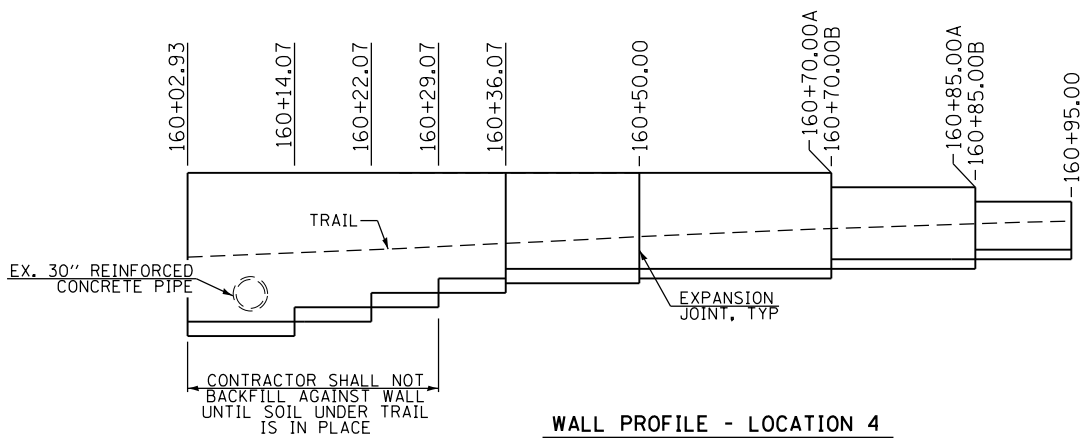
**DESIGN STRESSES**

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

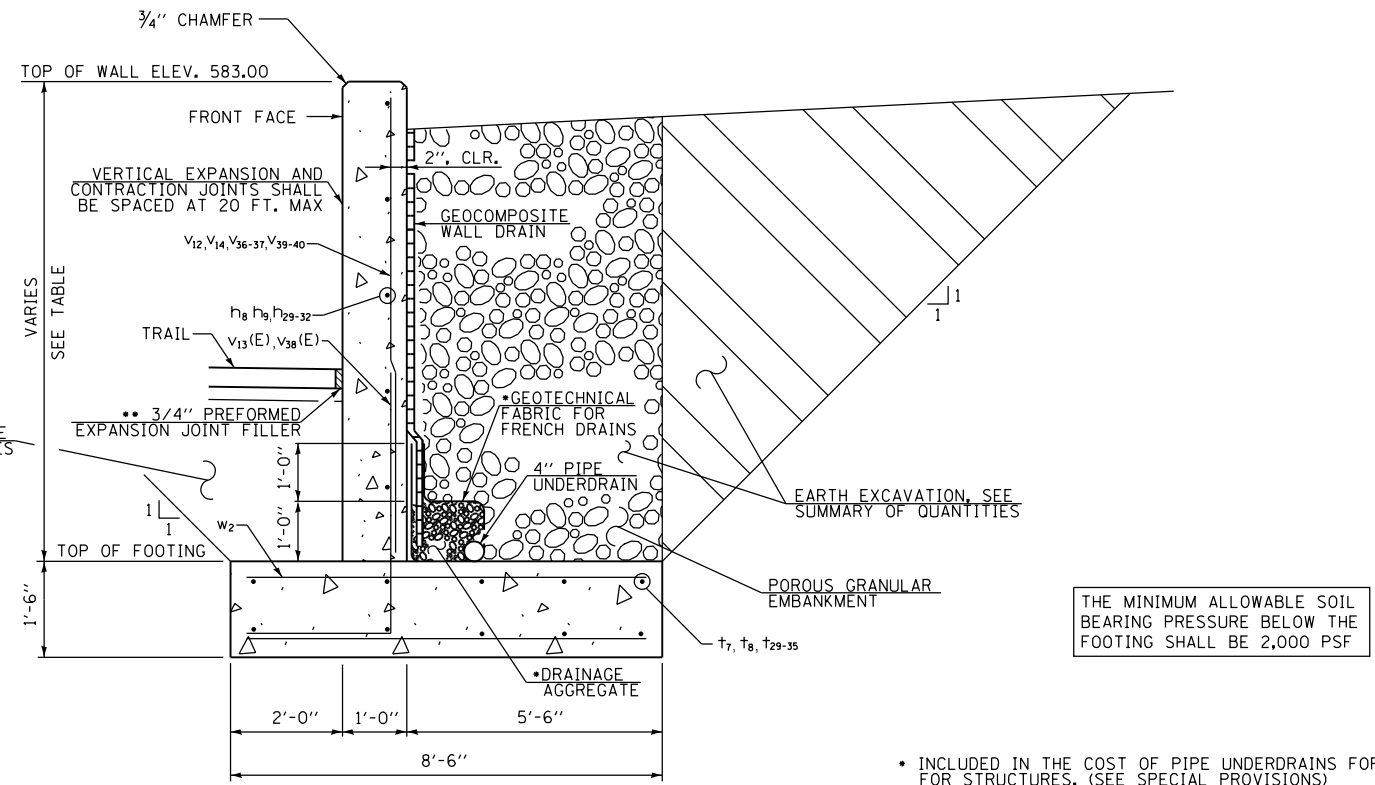


**WALL PLAN - LOCATION 4**

LOCATION 4		
STATION	TOP OF WALL	TOP OF FOOTING
160+02.93	583.00	567.50
160+14.07	583.00	569.00
160+22.07	583.00	570.50
160+29.07	583.00	572.00
160+36.07	583.00	573.00
160+50.00	583.00	573.00
160+70.00A	583.00	573.00
160+70.00B	581.50	574.00
160+85.00A	581.50	574.00
160+85.00B	580.00	575.00
160+95.00	580.00	575.00

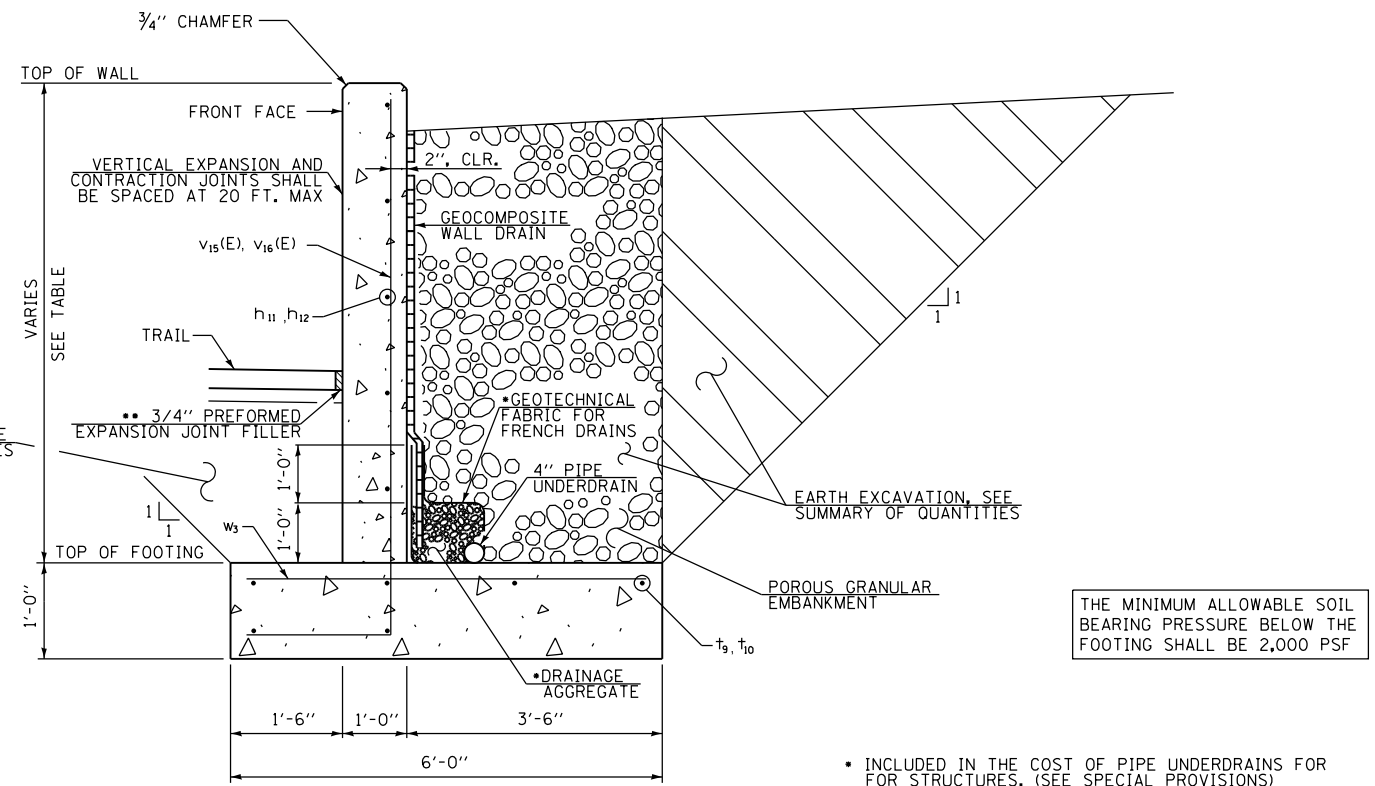


**WALL PROFILE - LOCATION 4**  
(LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)



**REINFORCED CONCRETE WALL SECTION**

LOOKING UPSTATION  
STATION 160+02.93 TO 160+50.00



**REINFORCED CONCRETE WALL SECTION**

LOOKING UPSTATION  
STATION 160+70.00 TO 160+95.00

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

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

(Sheet 1 of 2)

FILE NAME = G:\15\150957\05\15\150957\15\150957-04-BT - Retaining Wall Location.dgn

FILE NAME = D:\Projects\160955\05\Plans\Current\1001 - Retaining Wall Location.dgn

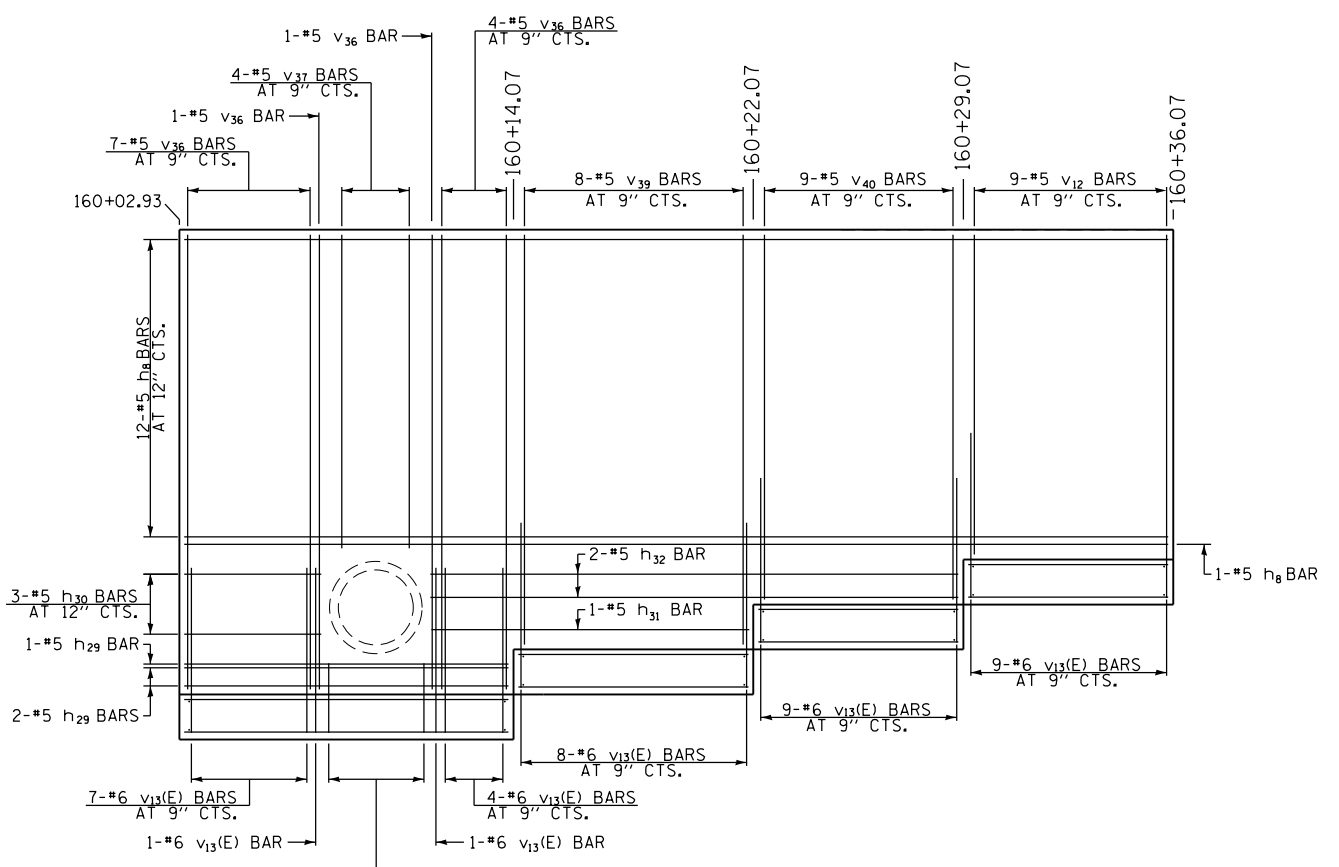
**GENERAL NOTES**

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.

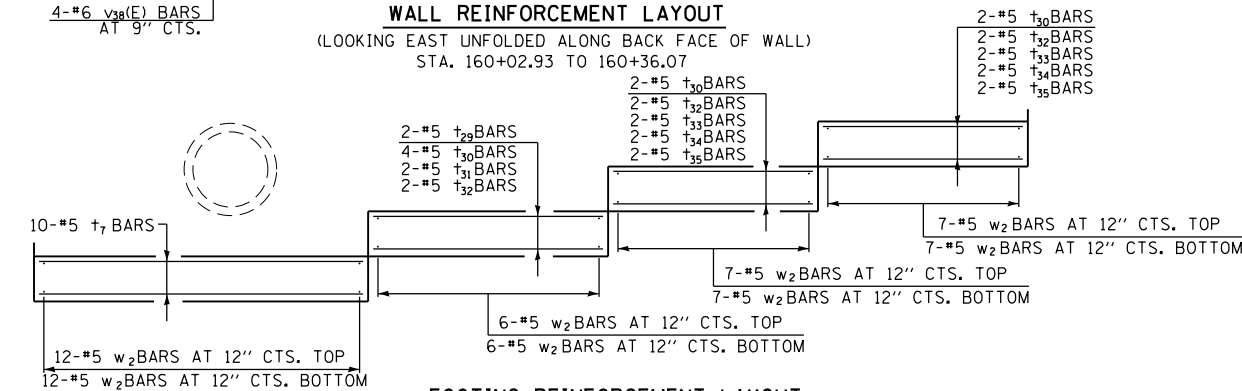
**BILL OF MATERIAL**

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

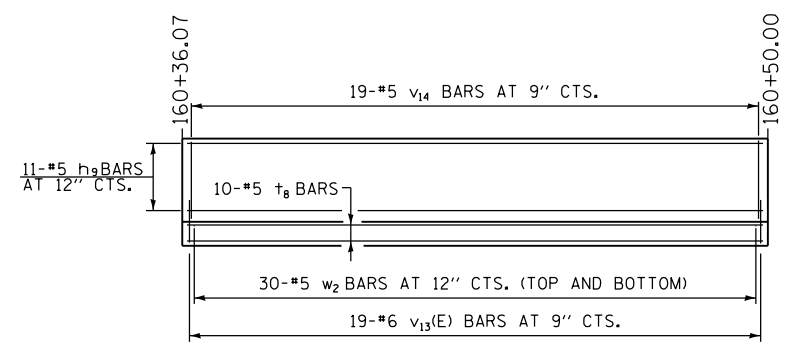
\* QUANTITIES ASSOCIATED WITH THE FOOTING BETWEEN STATIONS 160+50.00 TO 160+70.00 ARE INCLUDED IN LOCATION 3 RETAINING WALL



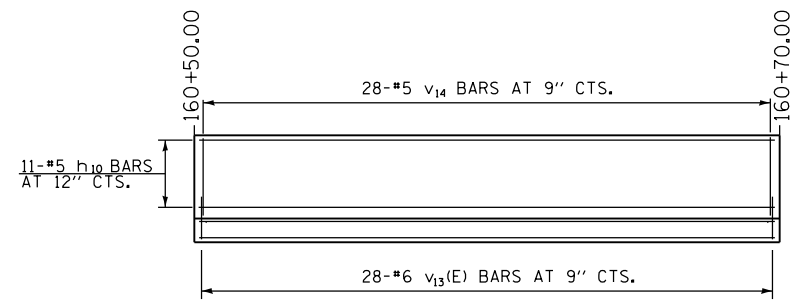
**WALL REINFORCEMENT LAYOUT**  
 (LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)  
 STA. 160+02.93 TO 160+36.07



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

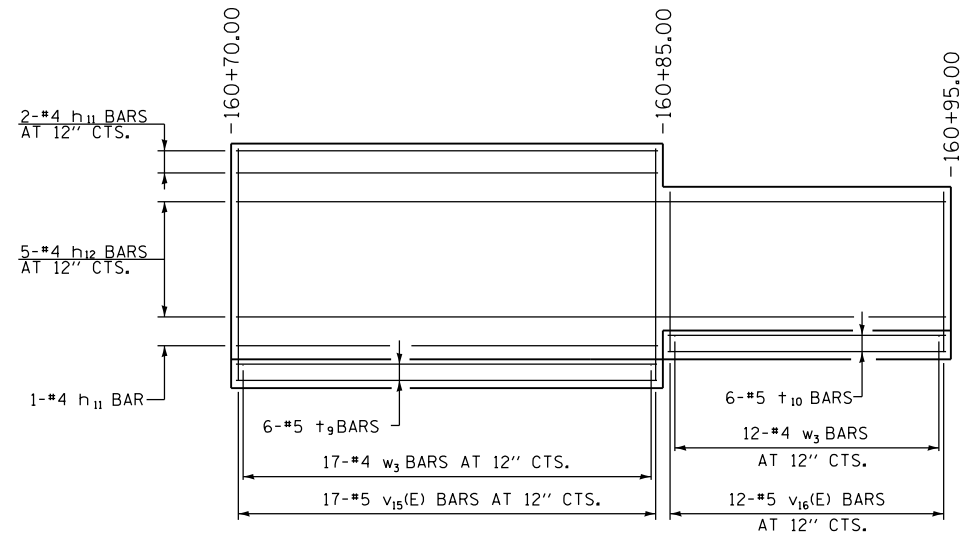


**REINFORCEMENT LAYOUT**  
 (LOOKING EAST UNFOLDED ALONG BACK FACE OF WALL)  
 STA. 160+36.07 TO 160+50.00

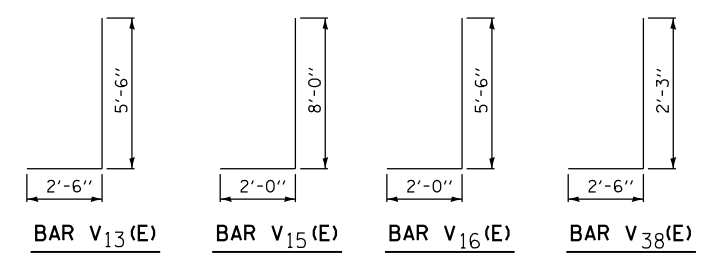


\* COST OF REINFORCEMENT AND CONCRETE STRUCTURES ASSOCIATED WITH THE FOOTING IS INCLUDED IN THE LOCATION 3 RETAINING WALL QUANTITIES

**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)



USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

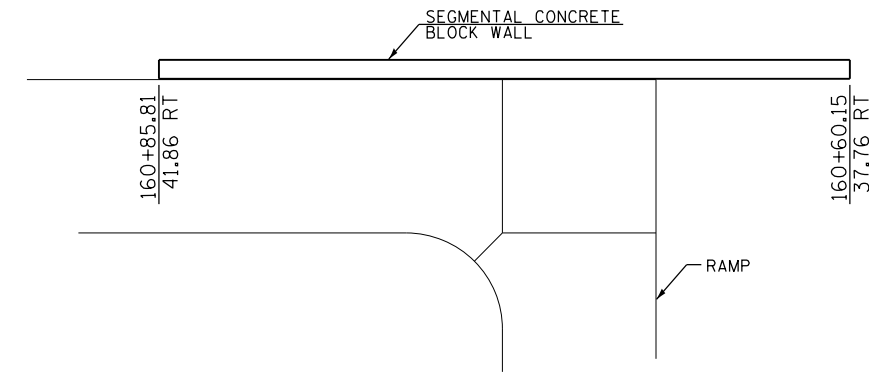
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CONCRETE RETAINING WALL DETAILS  
 LOCATION 4

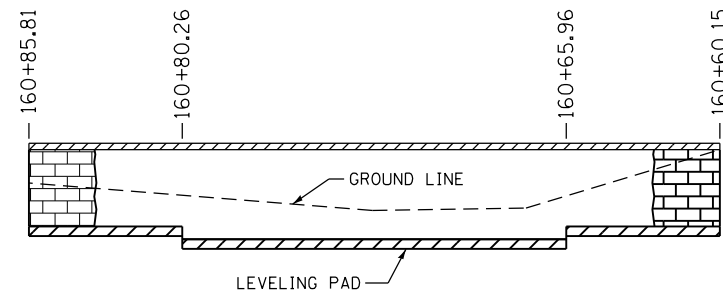
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	69
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

BENCHMARK: CHISELED "I" ON WEST SIDE OF TRAFFIC SIGNAL POLE  
IN ISLAND AT NORTH 24TH STREET AND WISMAN LANE - ELEV. 591.45

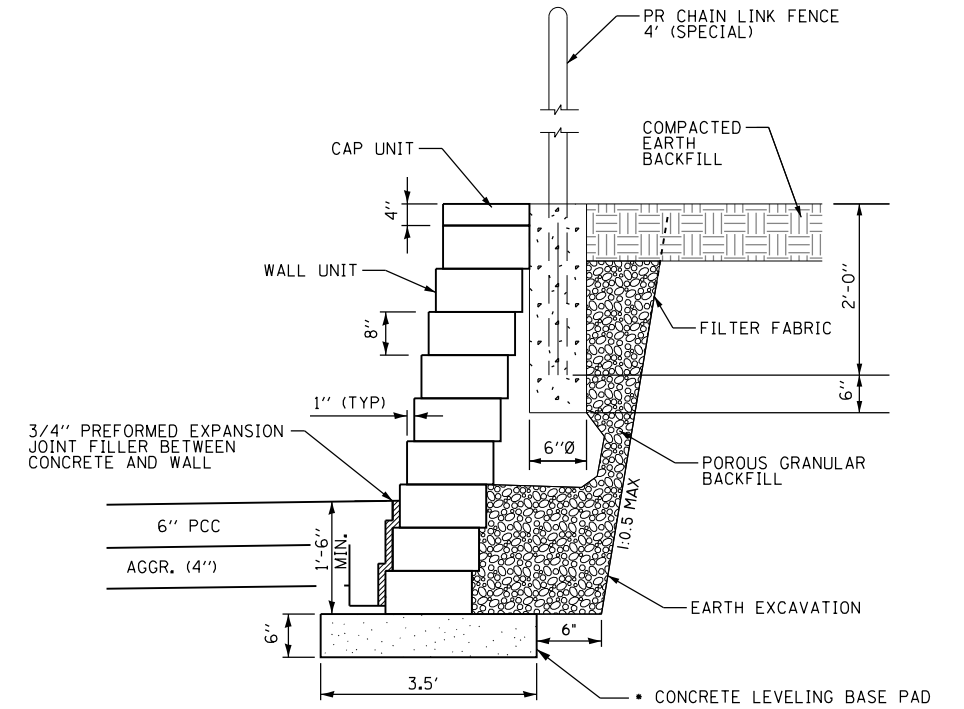


WALL PLAN - LOCATION 5



WALL PROFILE - LOCATION 5  
(LOOKING WEST ALONG FRONT FACE OF WALL)

LOCATION 5		
STATION	TOP OF WALL	TOP OF FOOTING
160+60.15	586.00	581.67
160+65.96	586.00	581.00
160+80.26	586.00	581.67
160+85.81	586.00	581.67



SEGMENTAL CONCRETE BLOCK WALL SECTION

• INCLUDED IN THE COST OF SEGMENTAL CONCRETE BLOCK WALL (SEE SPECIAL PROVISIONS)

**BILL OF MATERIAL**

SEGMENTAL CONCRETE BLOCK WALL	SO. FT.	169
POROUS GRANULAR EMBANKMENT	CU. YD.	10
FILTER FABRIC	SQ. YD.	31

THE QUANTITIES AND DETAILING ARE BASED ON THE SEGMENTAL CONCRETE BLOCK SHOWN. THE ACTUAL SEGMENTAL CONCRETE BLOCK WALL USED MAY DIFFER AND CORRESPONDING ADJUSTMENTS SHALL BE MADE TO THE QUANTITIES.

THE CONTRACTOR IS RESPONSIBLE FOR THE SELECTION AND DESIGN OF AN APPROPRIATE WALL SYSTEM ACCORDING TO THE SPECIAL PROVISION FOR SEGMENTAL CONCRETE BLOCK WALL. THE CONTRACTOR SHALL SUBMIT THE REQUIRED SHOP PLANS AND DESIGN CALCULATIONS TO THE ENGINEER. NO WORK OR ORDERING OF MATERIALS SHALL BE DONE UNTIL THE PROPOSED DESIGN AND MATERIALS ARE APPROVED BY THE ENGINEER IN WRITING.

FILE NAME = D:\15\150957\05\Plans\Current\1001\_Folder\_Structure\CADD\_Sheets\16-P4003-04-BT - Retaining Wall\_Location 5.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 = oms	DESIGNED -	REVISED -
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	DATE -	REVISED -

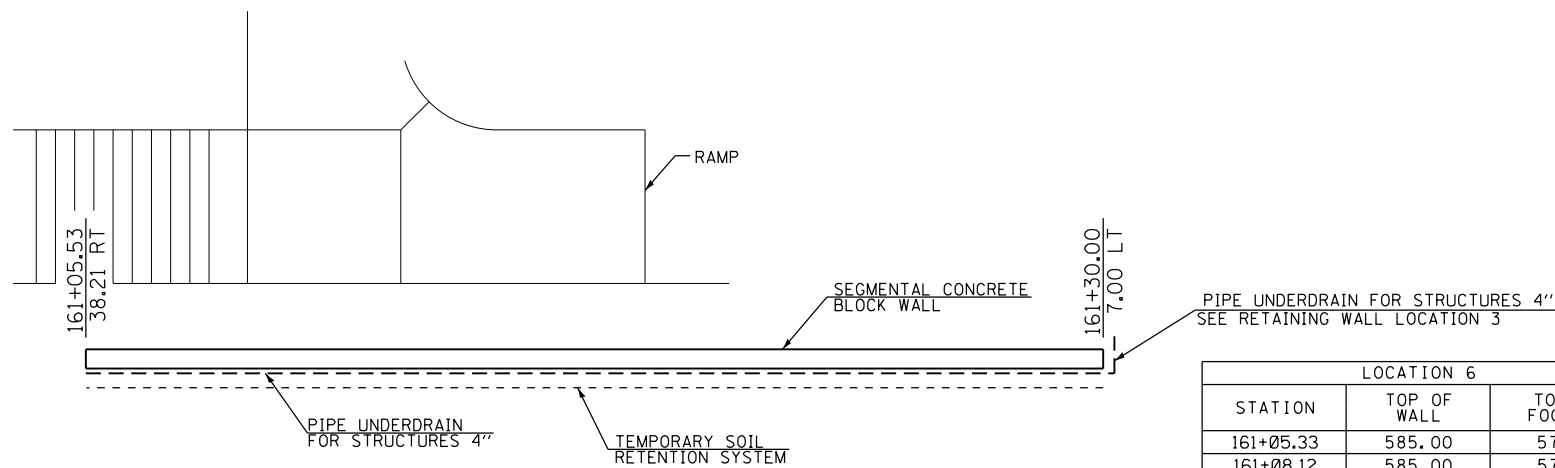
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SEGMENTAL CONCRETE BLOCK WALL DETAILS  
LOCATION 5

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	70
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93711	

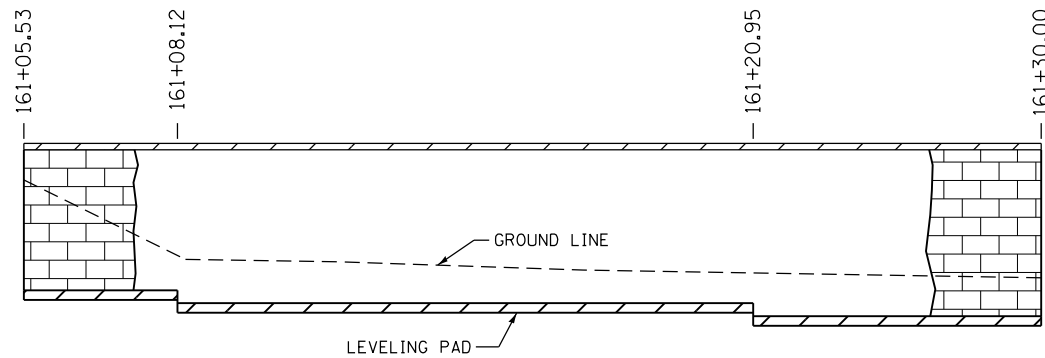
BENCHMARK: CHISELED "I" ON WEST SIDE OF TRAFFIC SIGNAL POLE  
IN ISLAND AT NORTH 24TH STREET AND WISMAN LANE - ELEV. 591.45



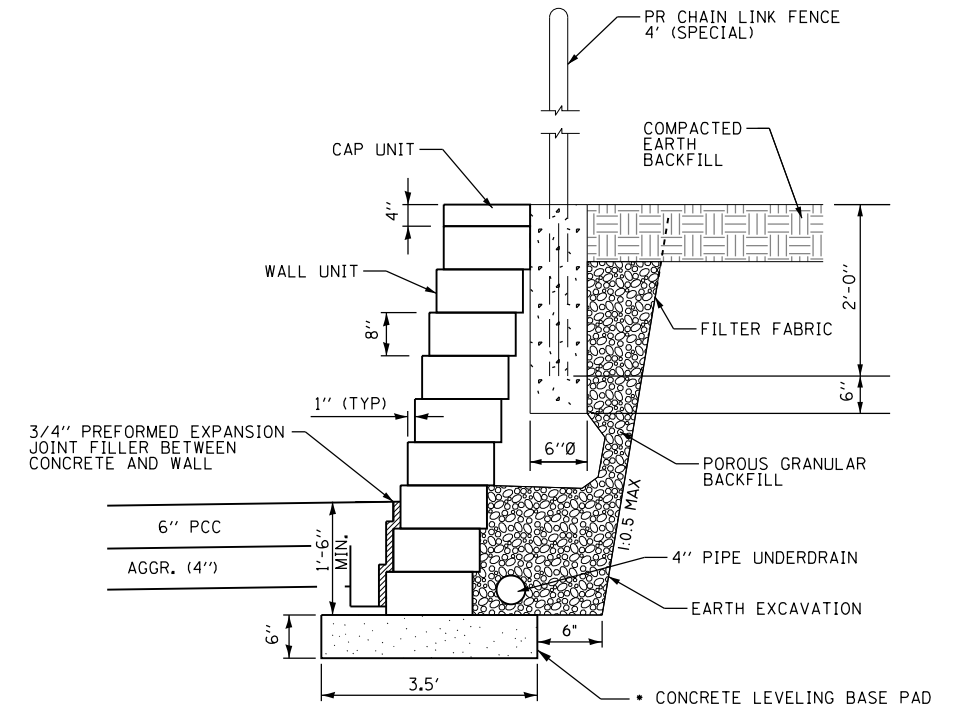
WALL PLAN - LOCATION 6

PIPE UNDERDRAIN FOR STRUCTURES 4"  
SEE RETAINING WALL LOCATION 3

LOCATION 6		
STATION	TOP OF WALL	TOP OF FOOTING
161+05.33	585.00	577.33
161+08.12	585.00	576.67
161+20.95	585.00	576.00
161+30.00	585.00	576.00



WALL PROFILE - LOCATION 6  
(LOOKING NORTH ALONG BACK FACE OF WALL)



SEGMENTAL CONCRETE BLOCK WALL SECTION

• INCLUDED IN THE COST OF SEGMENTAL CONCRETE BLOCK WALL (SEE SPECIAL PROVISIONS)

**BILL OF MATERIAL**

SEGMENTAL CONCRETE BLOCK WALL	SQ. FT.	446
POROUS GRANULAR EMBANKMENT	CU. YD.	29
PIPE UNDERDRAIN FOR STRUCTURES 4"	FOOT	53
FILTER FABRIC	SQ. YD.	67
TEMPORARY SOIL RETENTION SYSTEM	SQ. FT.	477

THE QUANTITIES AND DETAILING ARE BASED ON THE SEGMENTAL CONCRETE BLOCK SHOWN. THE ACTUAL SEGMENTAL CONCRETE BLOCK WALL USED MAY DIFFER AND CORRESPONDING ADJUSTMENTS SHALL BE MADE TO THE QUANTITIES.

THE CONTRACTOR IS RESPONSIBLE FOR THE SELECTION AND DESIGN OF AN APPROPRIATE WALL SYSTEM ACCORDING TO THE SPECIAL PROVISION FOR SEGMENTAL CONCRETE BLOCK WALL. THE CONTRACTOR SHALL SUBMIT THE REQUIRED SHOP PLANS AND DESIGN CALCULATIONS TO THE ENGINEER. NO WORK OR ORDERING OF MATERIALS SHALL BE DONE UNTIL THE PROPOSED DESIGN AND MATERIALS ARE APPROVED BY THE ENGINEER IN WRITING.

FILE NAME = D:\15\150935\05\Plans\Current\1\DOT - Retaining Wall - Location 6.dgn

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616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

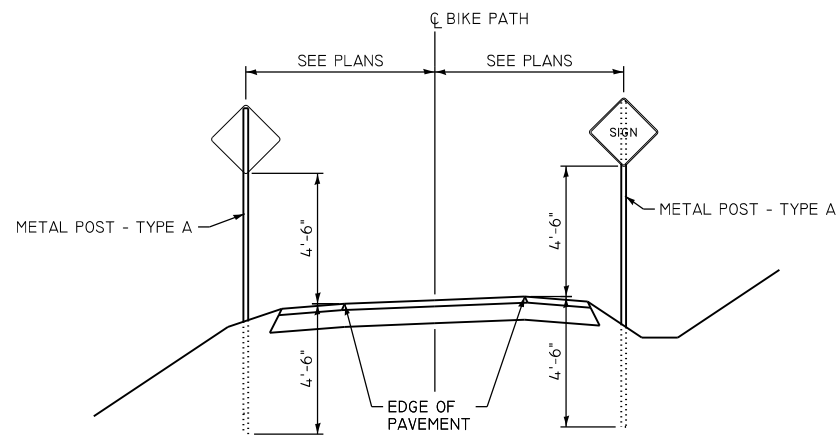
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PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SEGMENTAL CONCRETE BLOCK WALL DETAILS  
LOCATION 6

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	71
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93711	



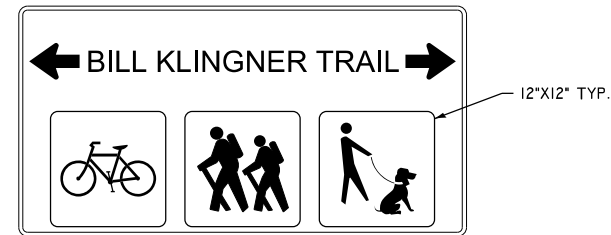
**TYPICAL SIGN INSTALLATION - SHARED USE PATH**

N.T.S.



**R9 - SIGNS**

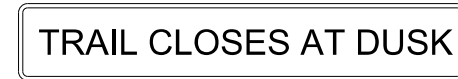
BLACK LETTERING AND BORDER ON A WHITE BACKGROUND



**RECREATIONAL SIGN 1**

WHITE LETTERING AND BORDER ON A BROWN BACKGROUND

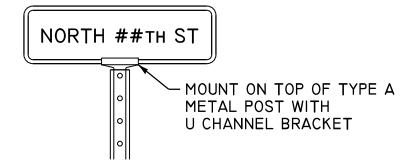
NOTE:  
PAID FOR AS "SIGN PANEL - TYPE 2 (SPECIAL)"



**RECREATIONAL SIGN 2**

WHITE LETTERING AND BORDER ON A BROWN BACKGROUND  
(SERIES C 2000 LETTERING)

NOTE:  
PAID FOR AS "SIGN PANEL - TYPE 2 (SPECIAL)"



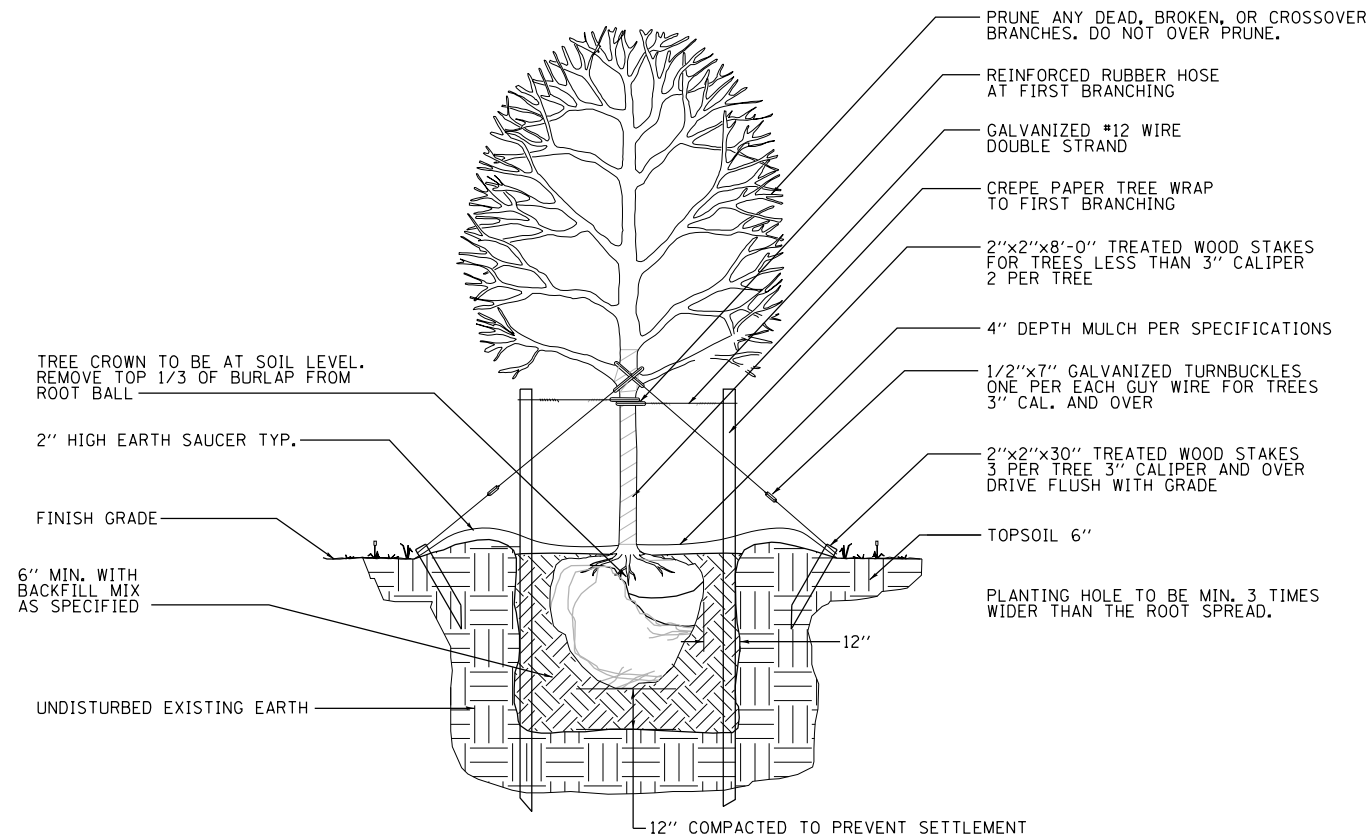
**STREET SIGNS**

WHITE LETTERING AND BORDER ON A GREEN BACKGROUND

5 STREET SIGNS REQUIRED  
(DOUBLE SIDED)

"NORTH 19TH ST"  
"NORTH 20TH ST"  
"NORTH 21ST ST"  
"NORTH 22ND ST"  
"NORTH 23RD ST"

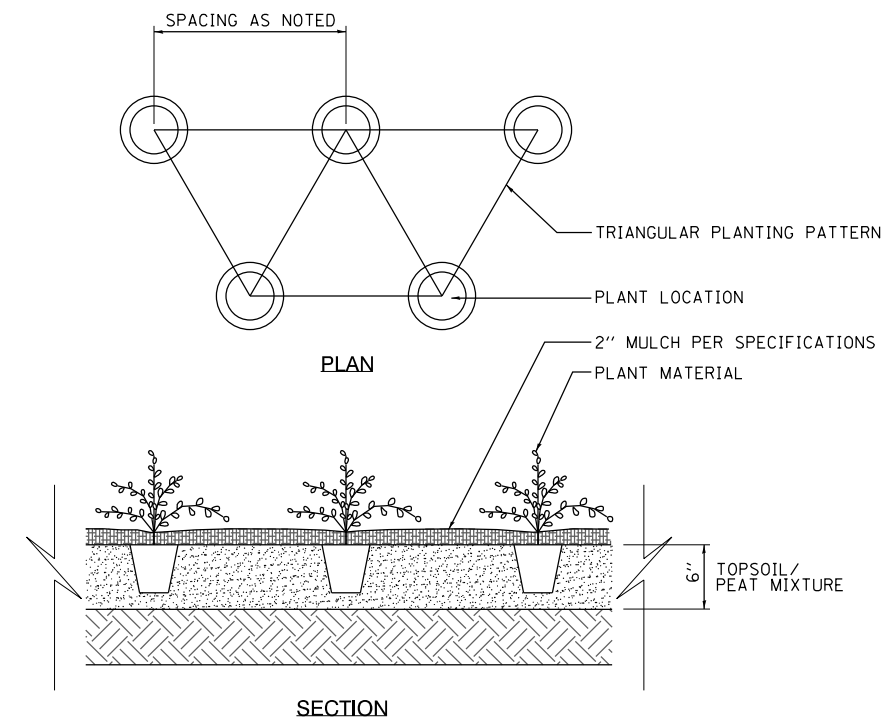
NOTE:  
PAID FOR AS "SIGN PANEL - TYPE 1 (SPECIAL)"



NOTE:  
ROOT BALL TO BE 12" WIDE FOR EACH 1 INCH OF CALIPER SIZE.  
TREES NEED NOT BE STAKED INITIALLY.

**TYPICAL TREE PLANTING DETAIL**

N.T.S.



**PERENNIAL/WILDFLOWER/GRASS PLANTING DETAIL**

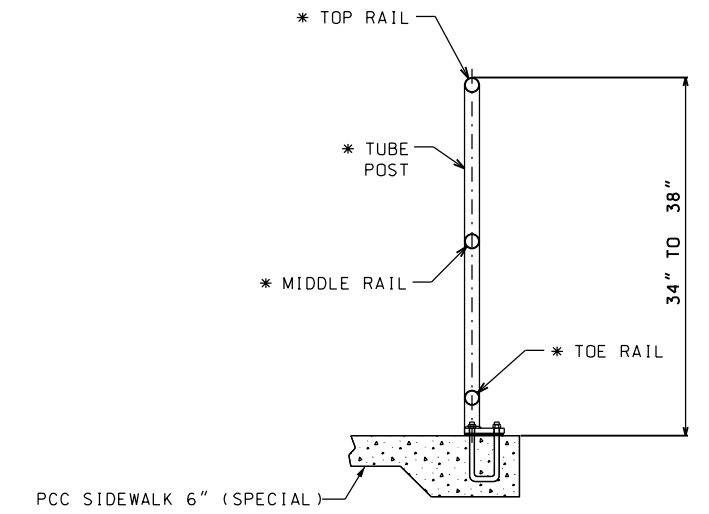
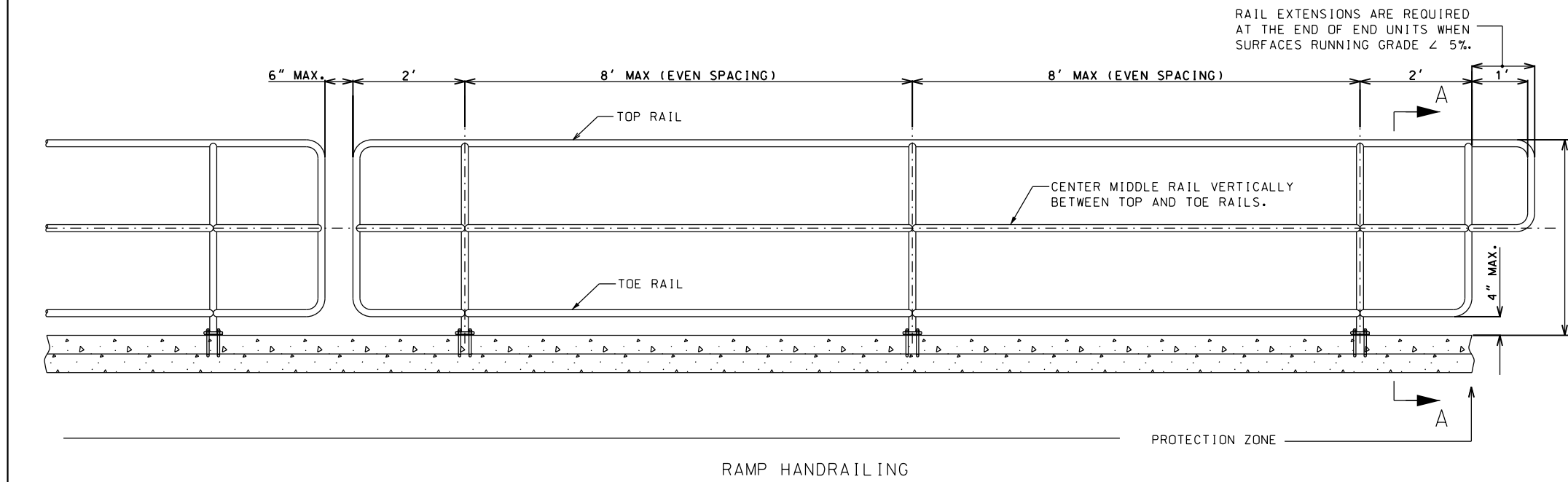
N.T.S.

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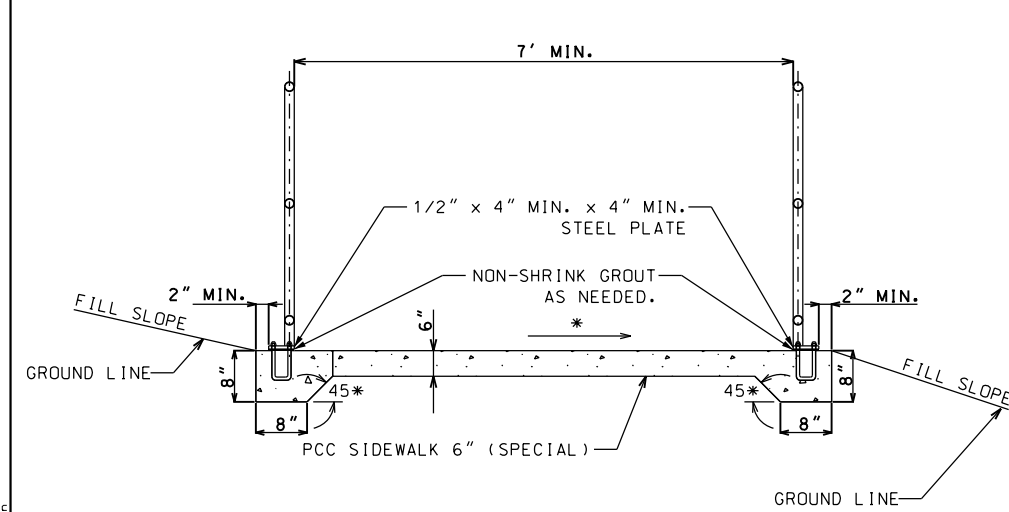
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PLOT SCALE = 48.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	72
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				





\* 1 1/2" Ø SCH 80 STEEL POSTS AND RAILINGS. WELD AND GRIND ALL JOINTS SMOOTH. ALL RAILS TO BE GALVANIZED.



RAMP (SECTION A-A)

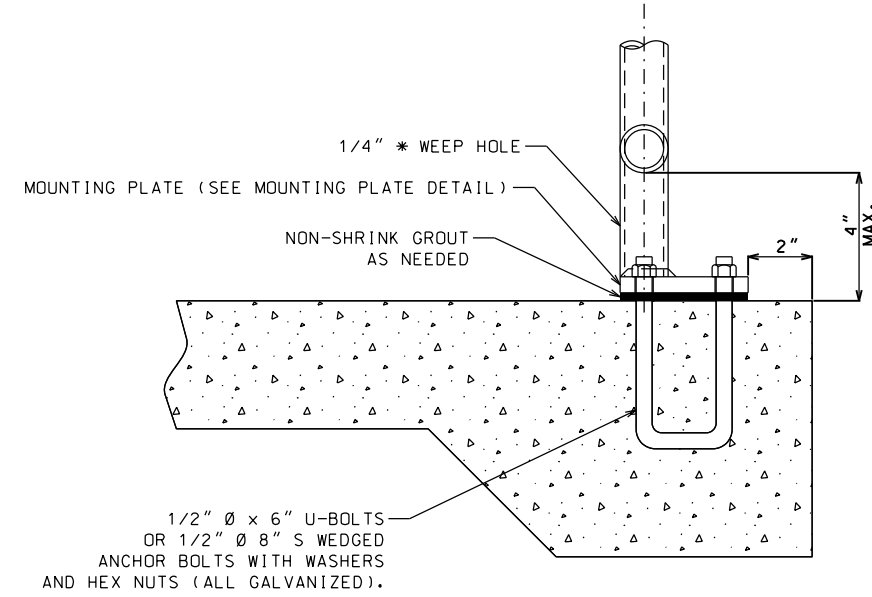
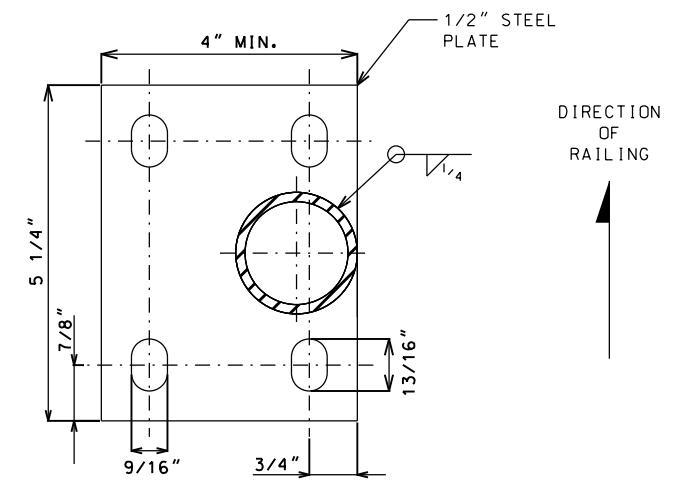


PLATE MOUNTING DETAIL



(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 GALVANIZED 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 = Q:\15\F\1509357\_05\Plans\Current\DOT - Misc\03-04-BT - Misc\02.dgn

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 Engineers • Architects • Surveyors  
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 48.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

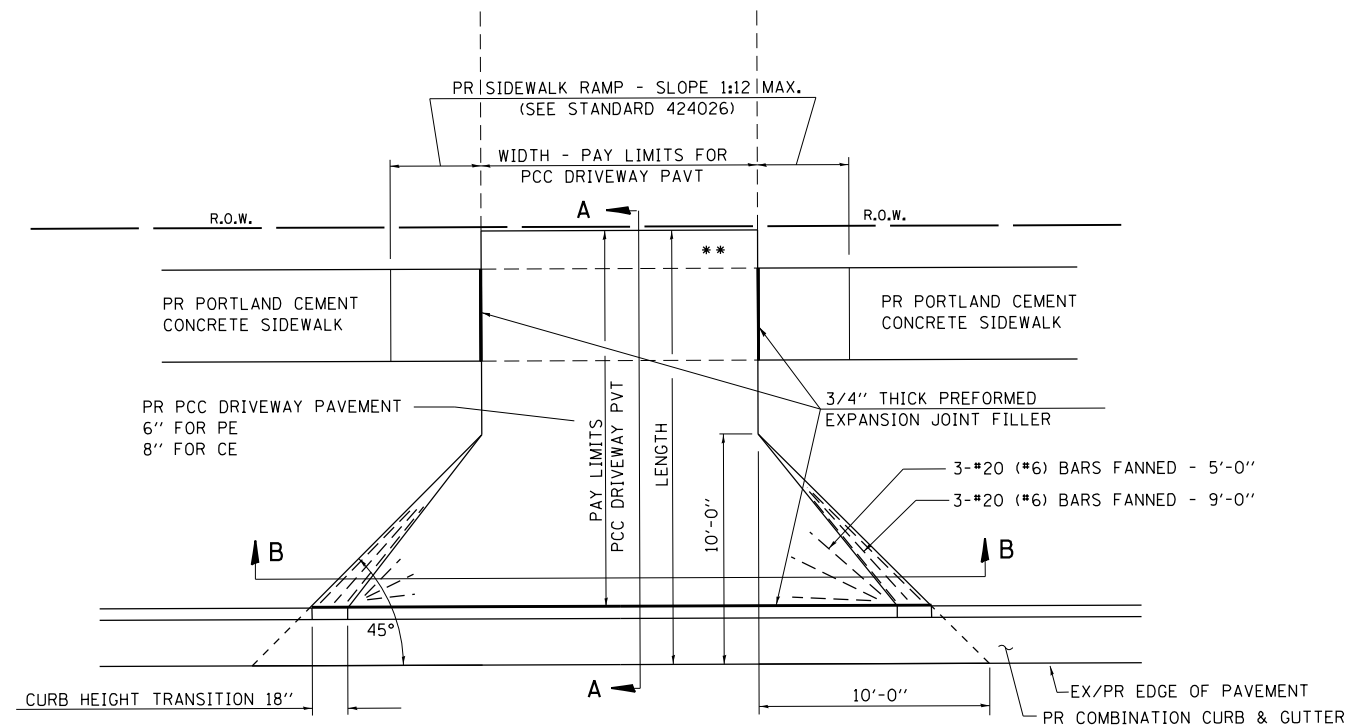
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS  
RAMP HANDRAIL DETAILS**

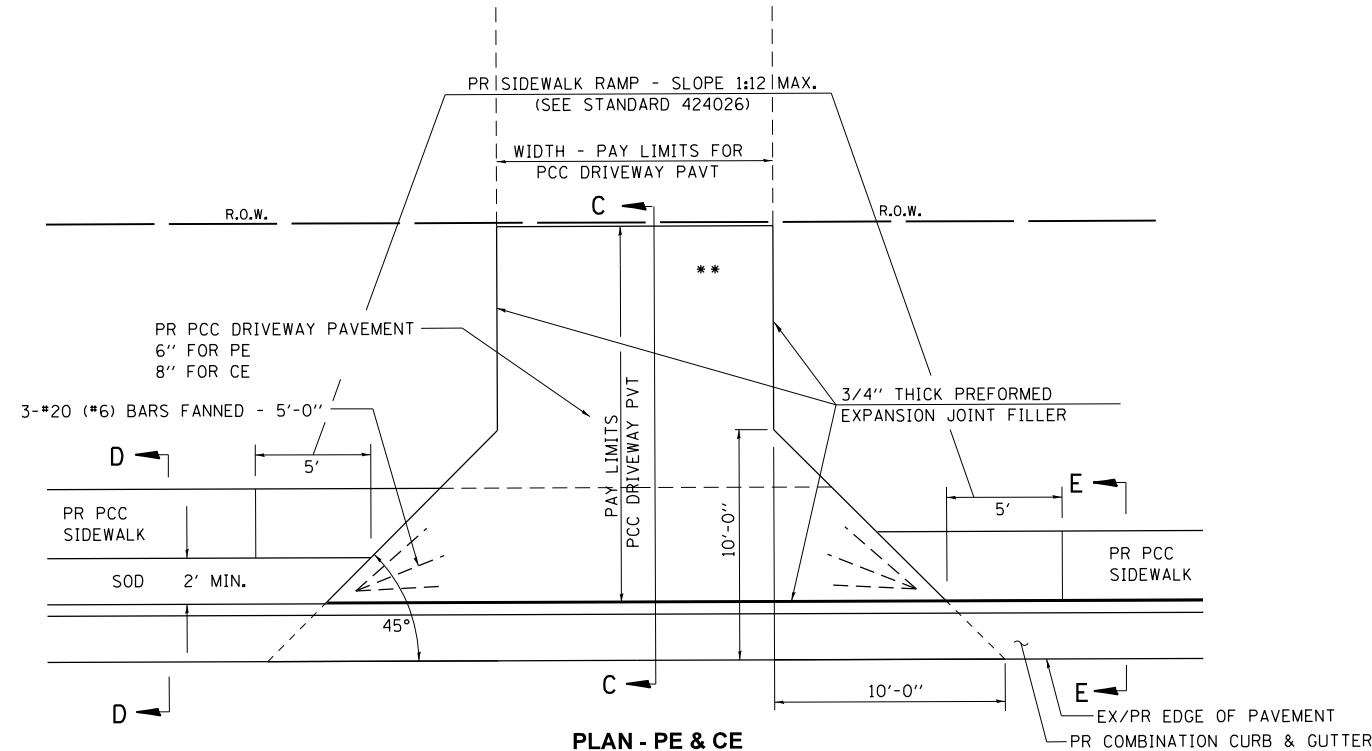
SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	73
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				

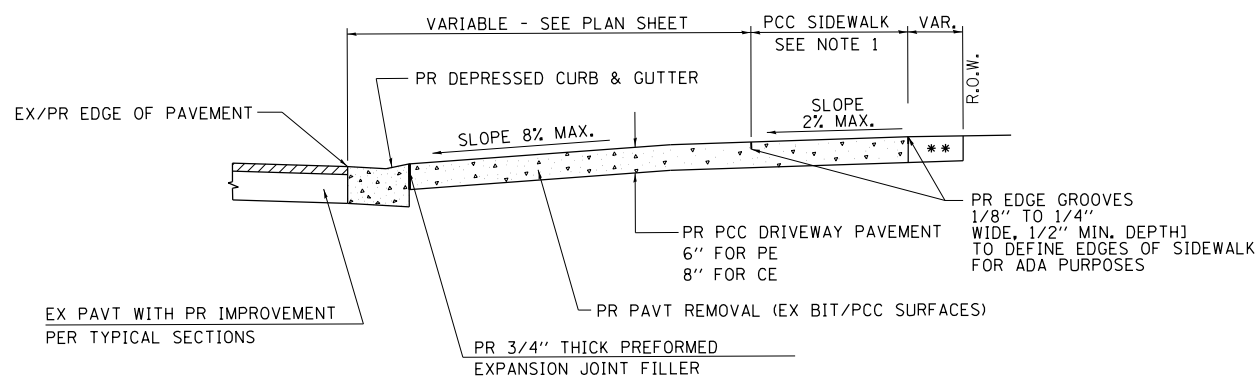




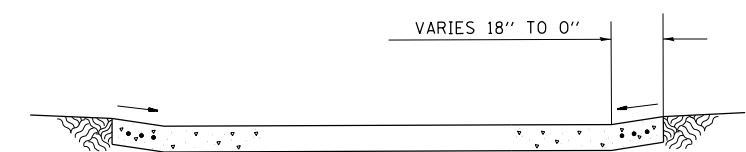
**PLAN - PE & CE**



**PLAN - PE & CE  
(SIDEWALK ADJACENT TO CURB)**



**SECTION A - A**



**SECTION B - B**

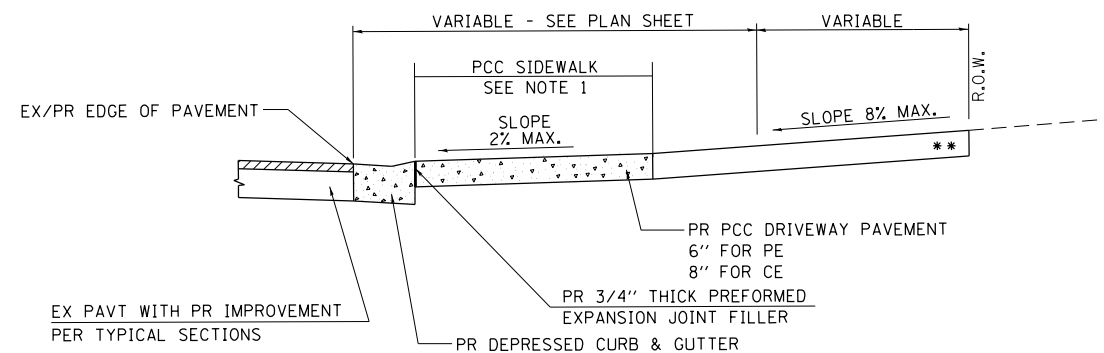
- NOTES:
- SEE PLAN SHEET / ENTRANCE PROFILE FOR LOCATION OF SIDEWALK.
  - THE COST OF FURNISHING AND INSTALLING THE 3/4" PREFORMED EXPANSION JOINT FILLER AND REINFORCEMENT BARS SHALL BE INCLUDED IN THE COST OF P.C.C. DRIVEWAY PAVEMENT.

\*\* MATCH IN KIND BEHIND SIDEWALK  
FOR EX EARTH OR AGGREGATE SURFACES :  
PR AGGREGATE BASE COURSE, TYPE B 6" - PE/FE  
PR PCC DRIVEWAY PAVT. 8" - CE

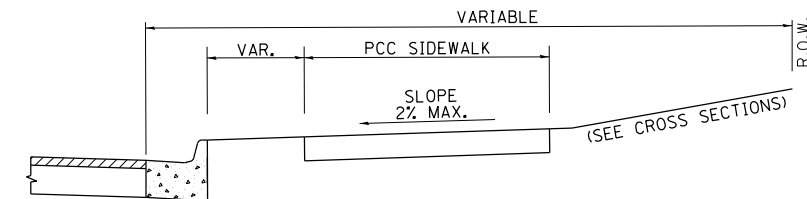
FOR EX BITUMINOUS CONC. SURFACES :  
PR BITUMINOUS CONCRETE 6" - PE  
PR BITUMINOUS CONCRETE 8" - CE

FOR EX PCC SURFACES :  
PR PCC DRIVEWAY PAVT. 6" - PE  
PR PCC DRIVEWAY PAVT. 8" - CE

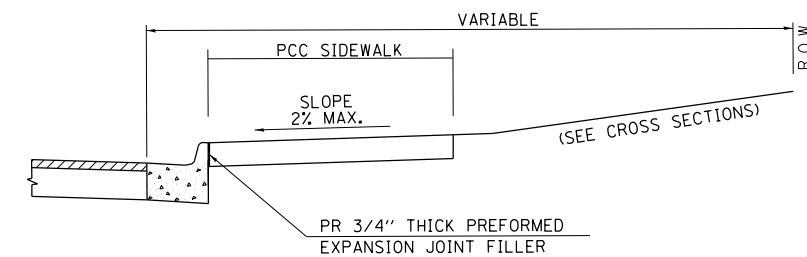
• NOTE : IN AREAS WITH NO SIDEWALK,  
MATCH IN KIND BEHIND 10' FLARE



**SECTION C - C**



**SECTION D - D**



**SECTION E - E**

FILE NAME = G:\15\150957\05\Plans\Current\1001\_Folder\_Structure\CADD\_Sheets\16-P4003-04-BT - MiscDet04.dgn

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

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS  
ENTRANCES WITH CURB & GUTTER**

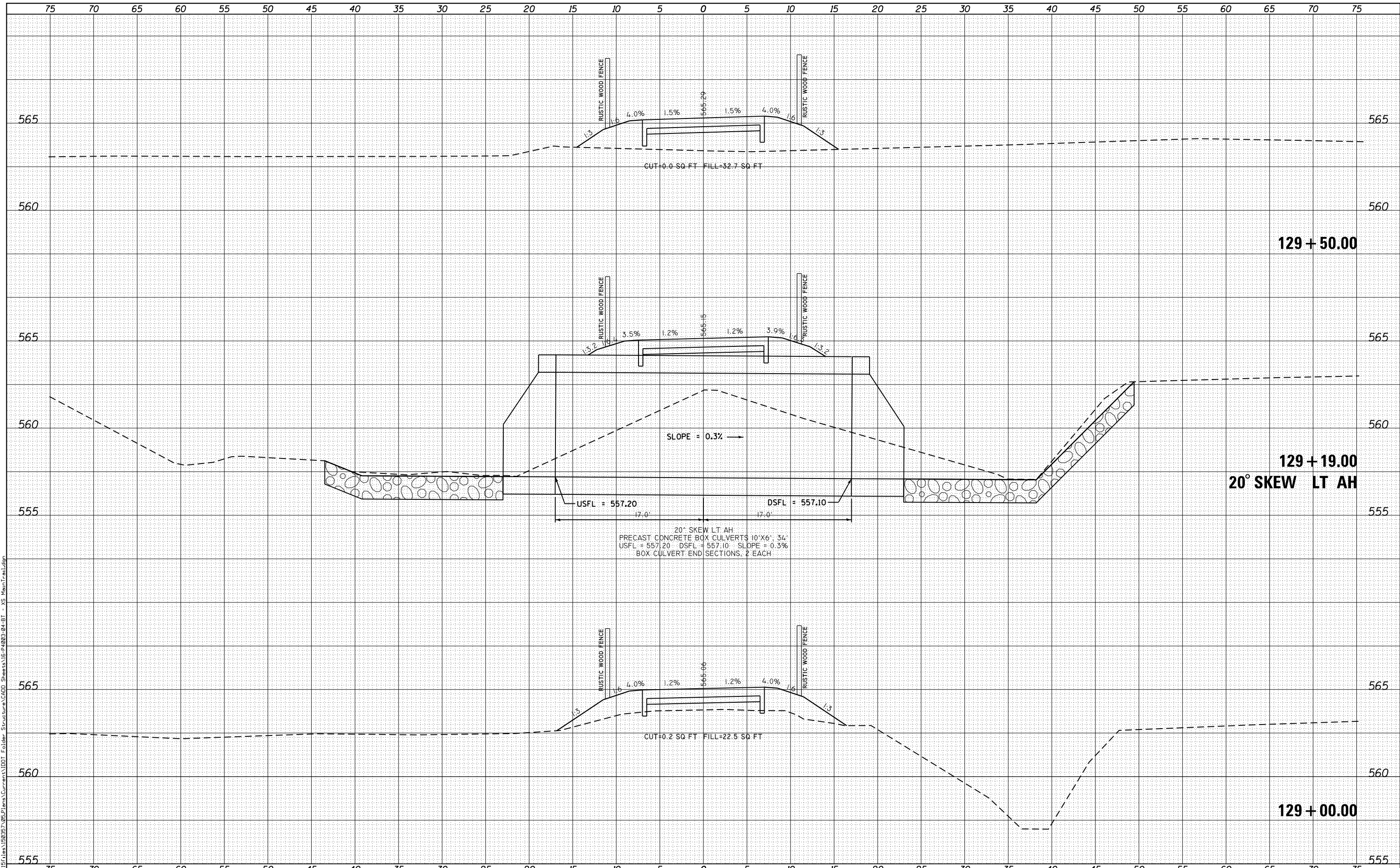
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	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

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



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	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

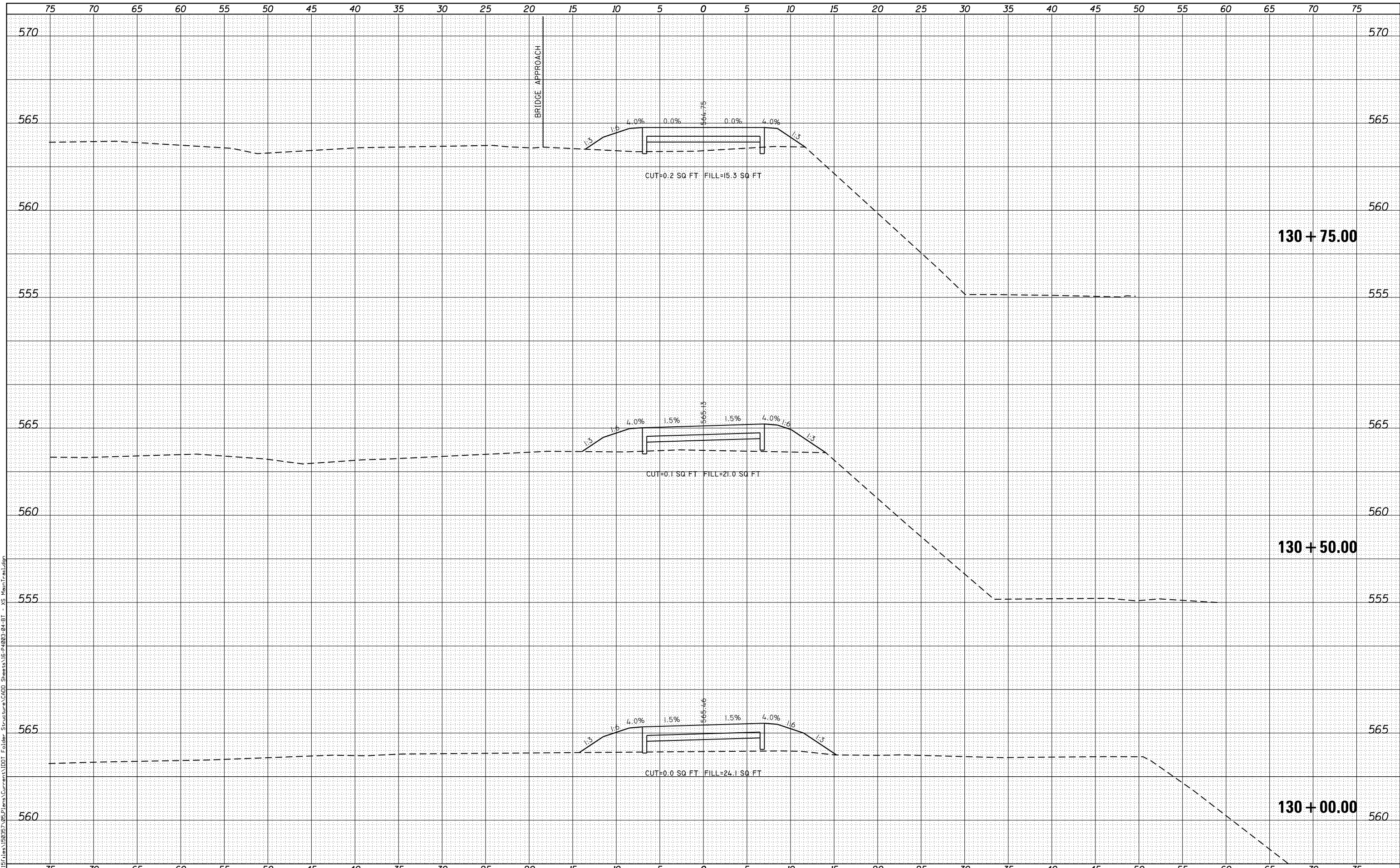
SHEET 1 OF 37 SHEETS STA. 129+00.00 TO STA. 129+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	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\16003-04-BT - XS Main Trail.dgn



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	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

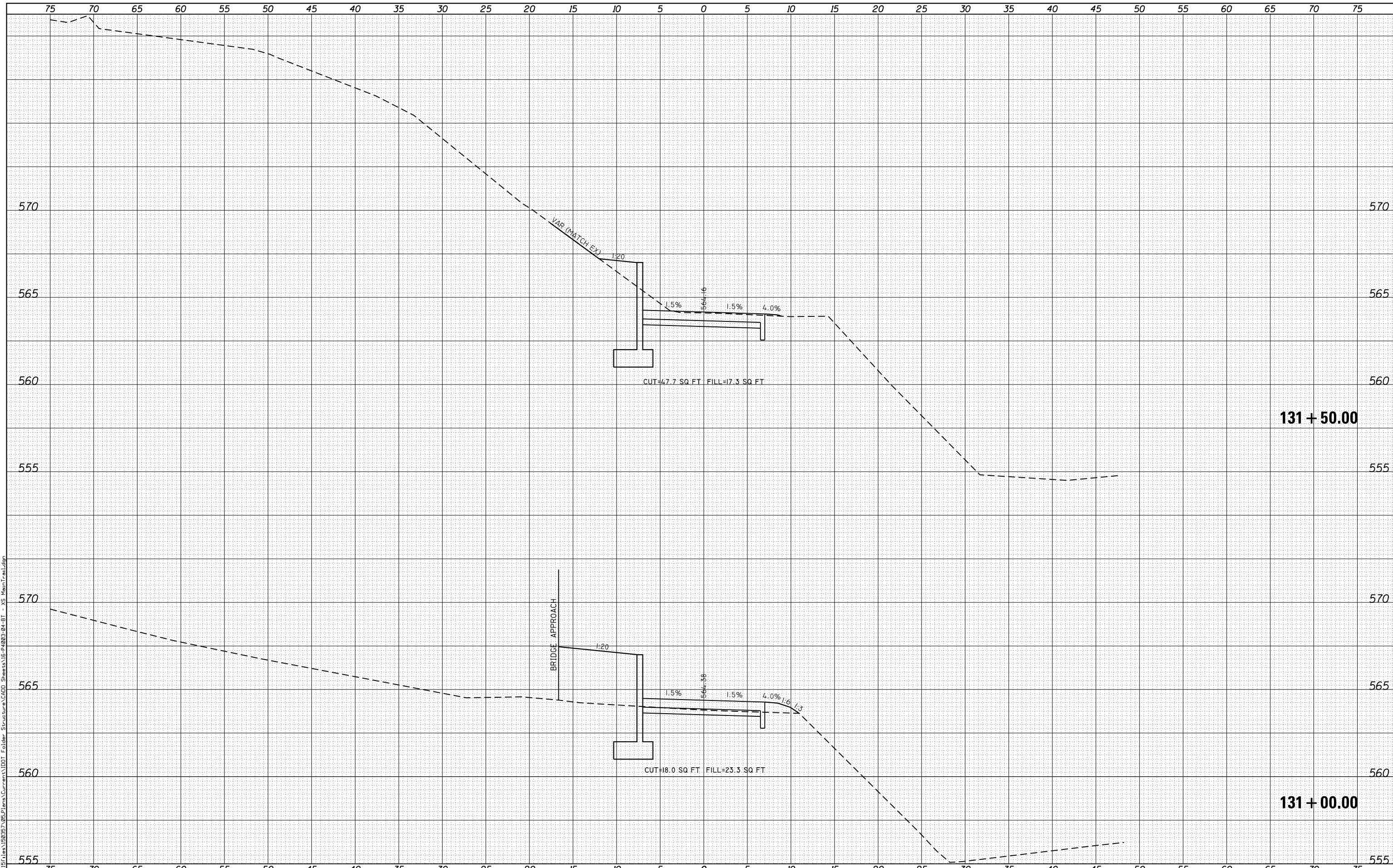
SHEET 2 OF 37 SHEETS STA. 130+00.00 TO STA. 130+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	77
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

BY	DATE

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	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 62301-2723-2670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

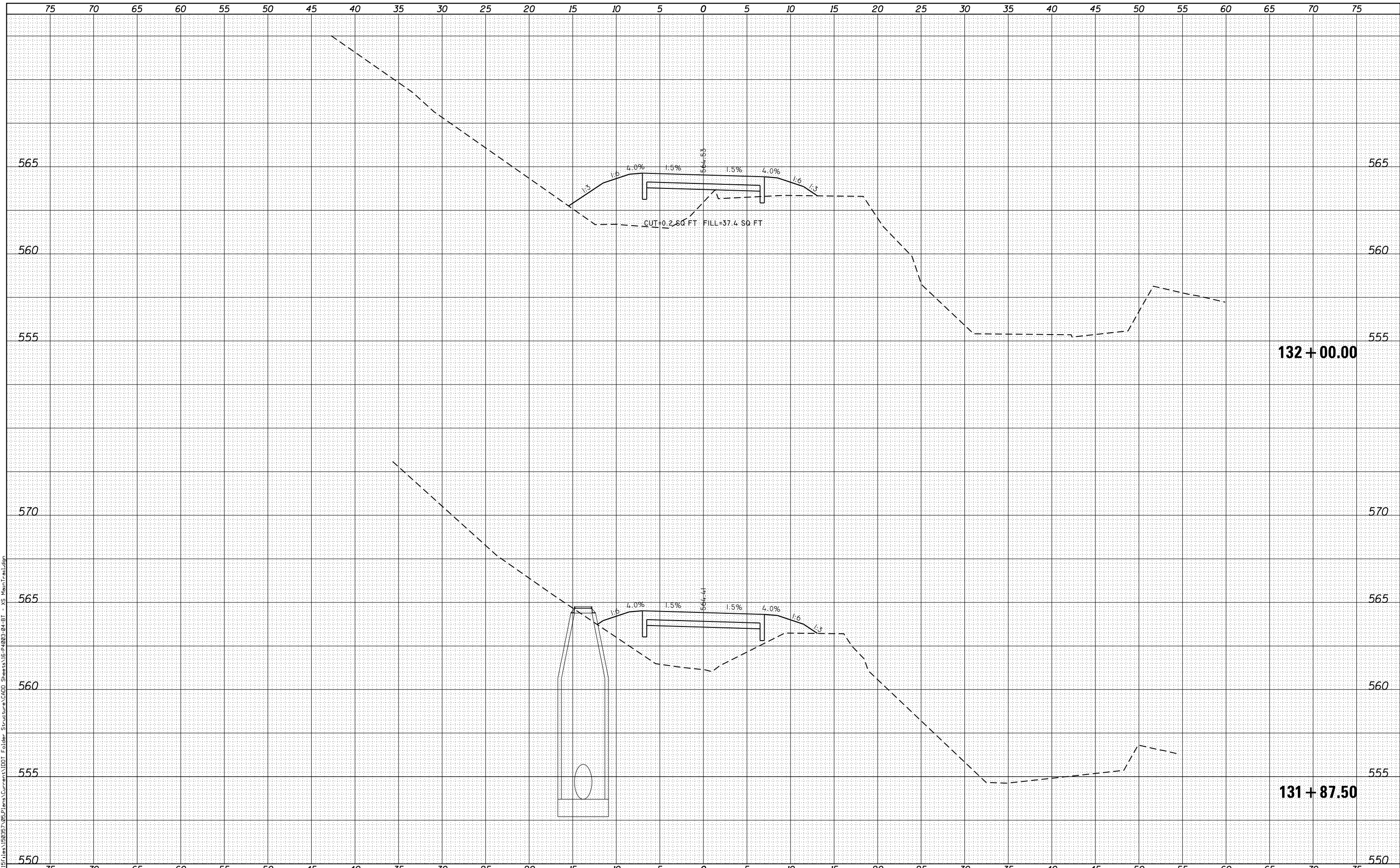
SCALE: SHEET 3 OF 37 SHEETS STA. 131+00.00 TO STA. 131+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	78
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
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 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	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

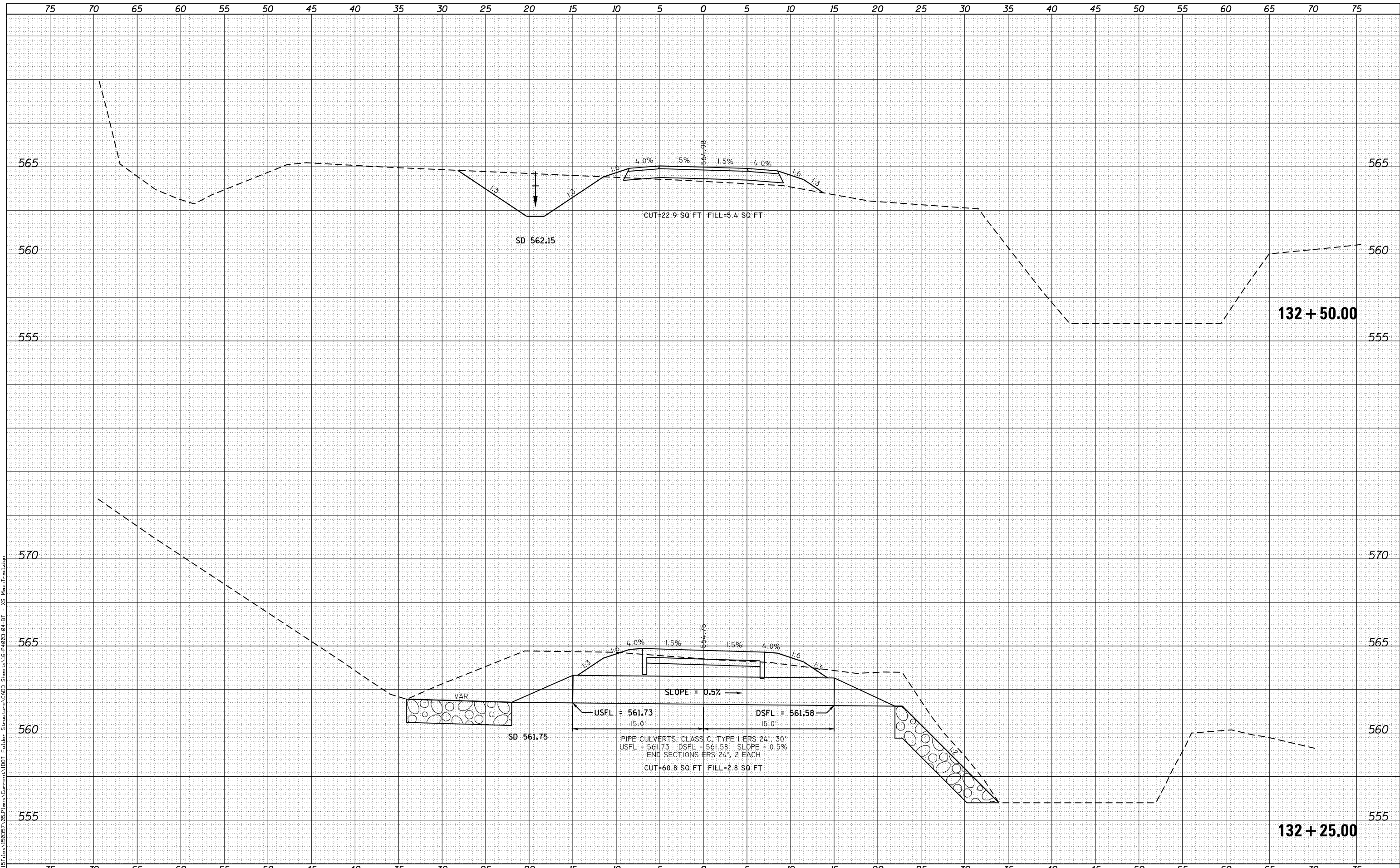
SHEET 4 OF 37 SHEETS STA. 131+87.50 TO STA. 132+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	79
				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	

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 = oms	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	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 5 OF 37 SHEETS STA. 132+25.00 TO STA. 132+50.00

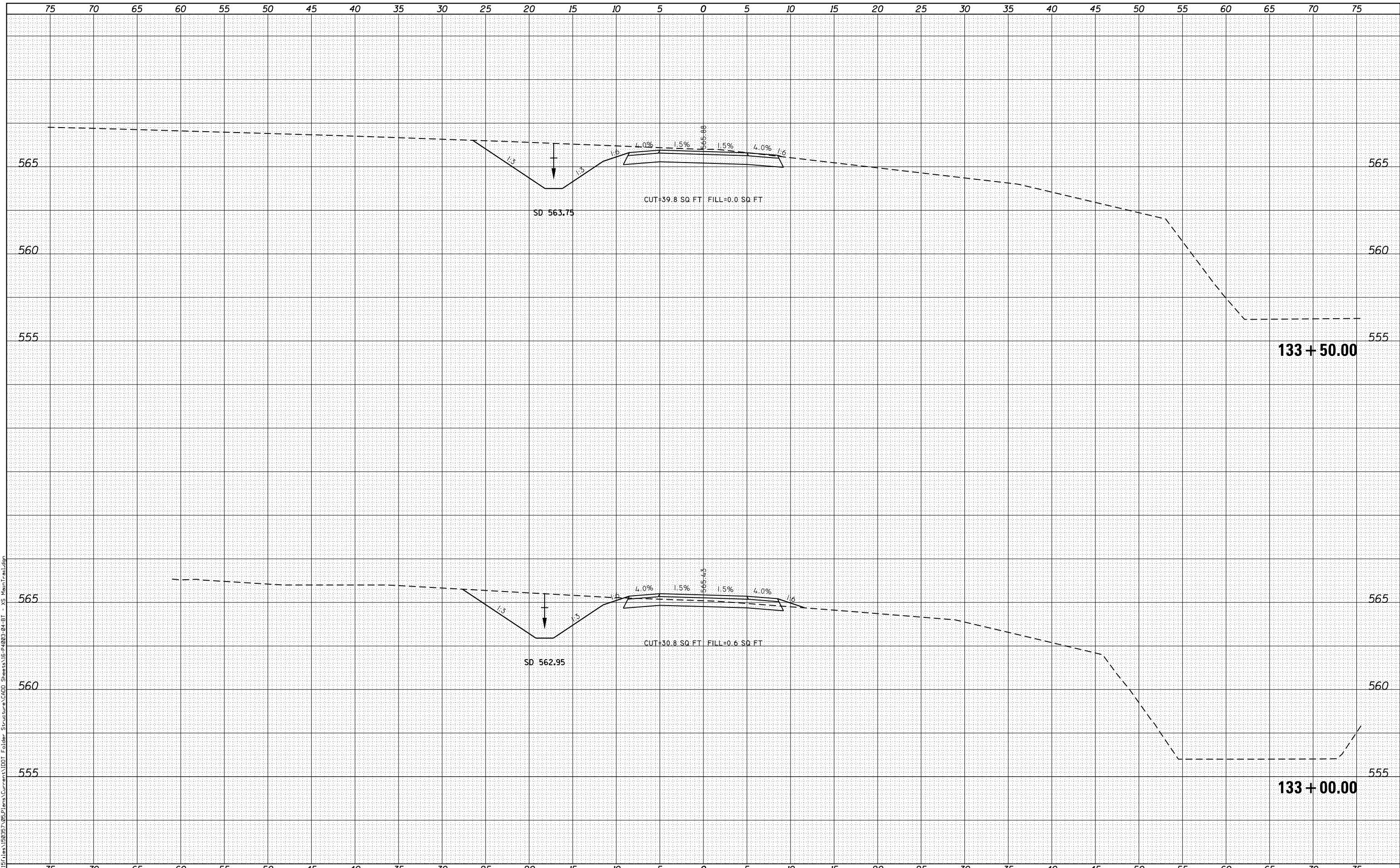
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	80
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				



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

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

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 = oms	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 3/2/2018	CHECKED -	REVISD -
	DATE -	REVISD -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

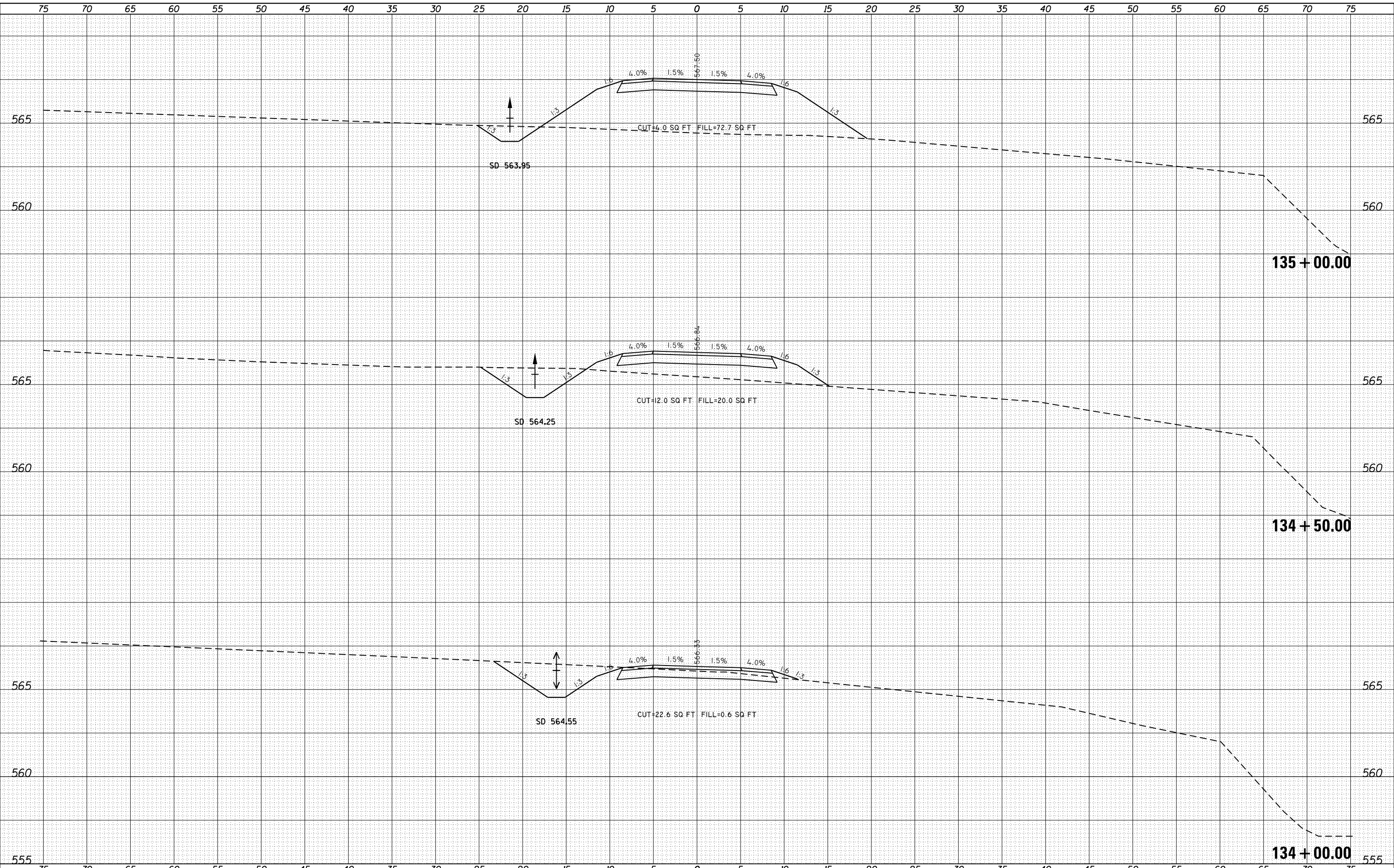
**CROSS SECTIONS**  
**BILL KLINGNER TRAIL 18TH ST TO 24TH ST**  
 SCALE: 1"=5'H  
 1"=2.5'V SHEET 6 OF 37 SHEETS STA. 133+00.00 TO STA. 133+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	81
			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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 616 NORTH ST. QUINCY, ILLINOIS 62301-217, 223-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 3/2/2018	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

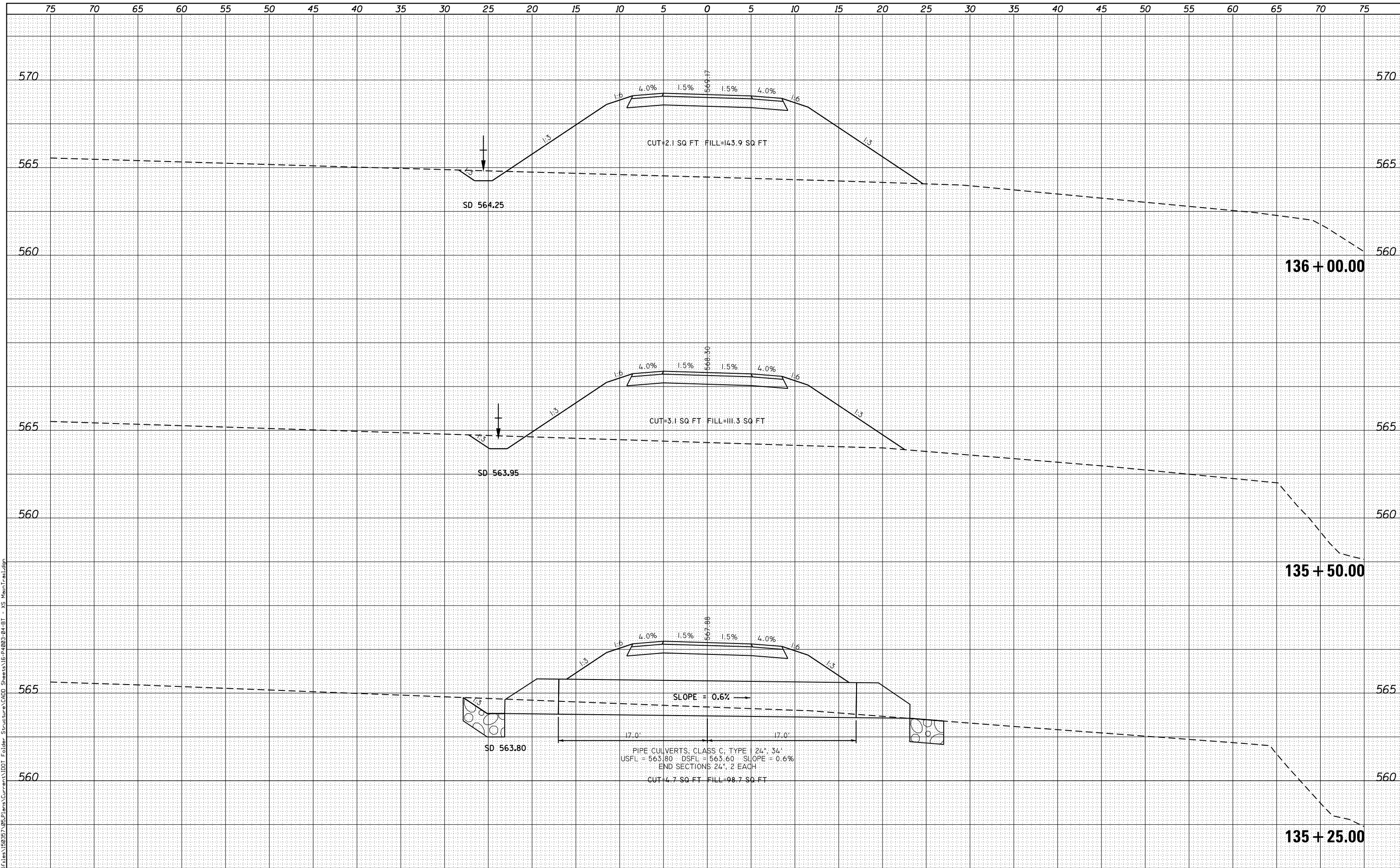
SHEET 7 OF 37 SHEETS STA. 134+00.00 TO STA. 135+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	82
			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 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	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

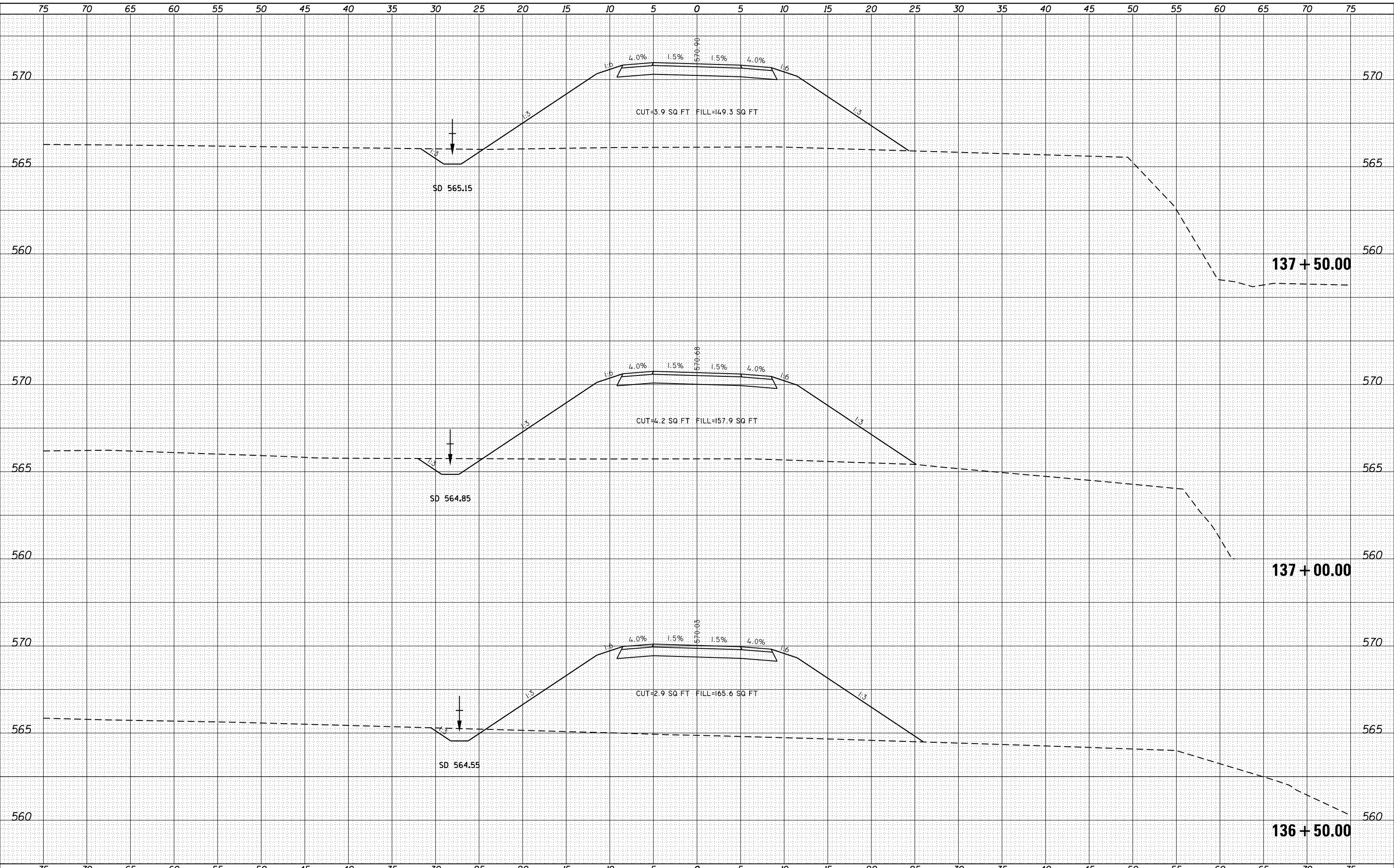
SHEET 8 OF 37 SHEETS STA. 135+25.00 TO STA. 136+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	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
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FILE NAME = G:\Projects\16003\16003-04-BT\16003-04-BT - XS Main Trail.dwg



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

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	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

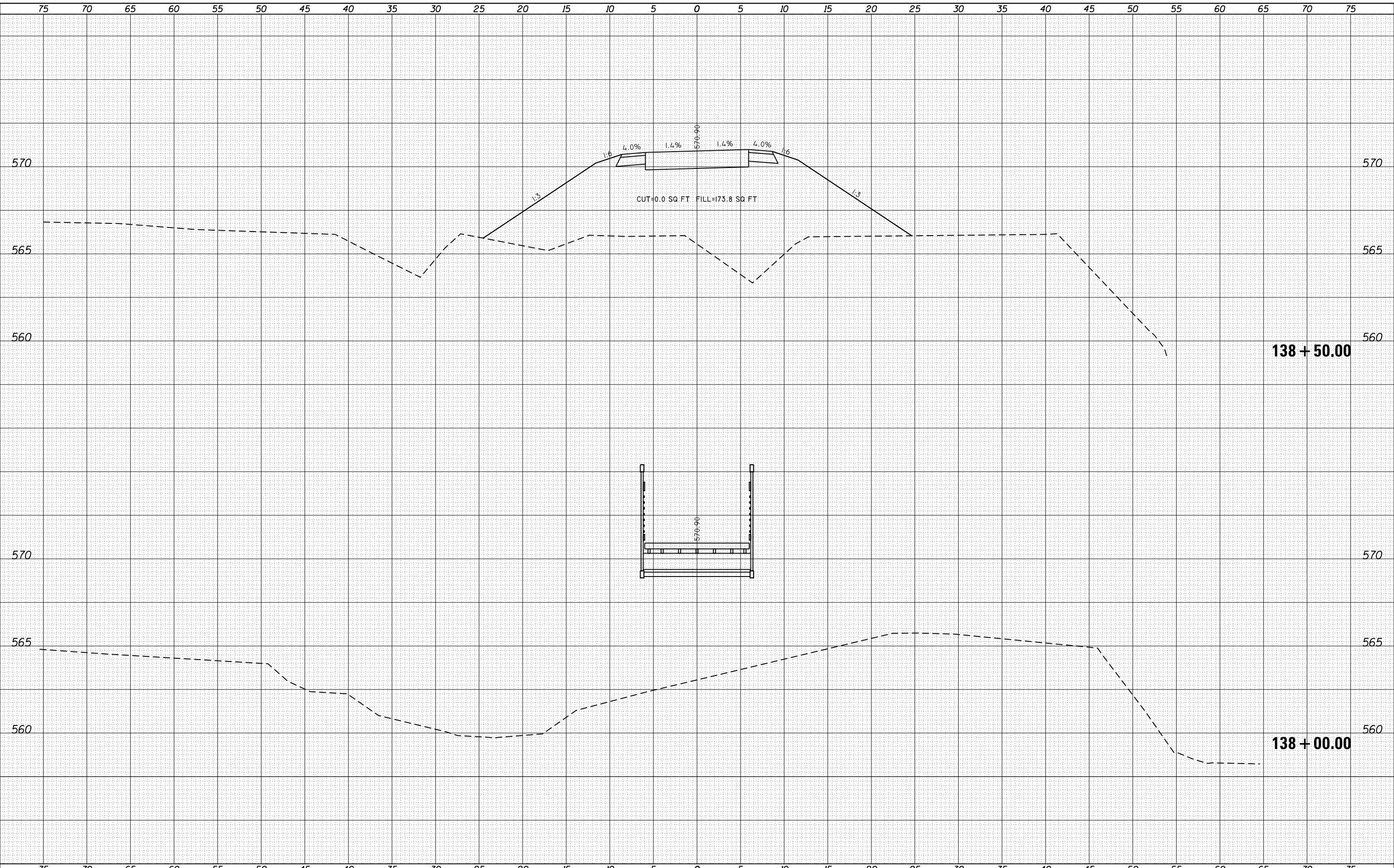
SHEET 9 OF 37 SHEETS STA. 136+50.00 TO STA. 137+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	84
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY NO.	
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NOTE BOOK TEMPLATE AREAS CHECKED	

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



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 616 NORTH ST. QUINCY, ILLINOIS 62301 217.233.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	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'L

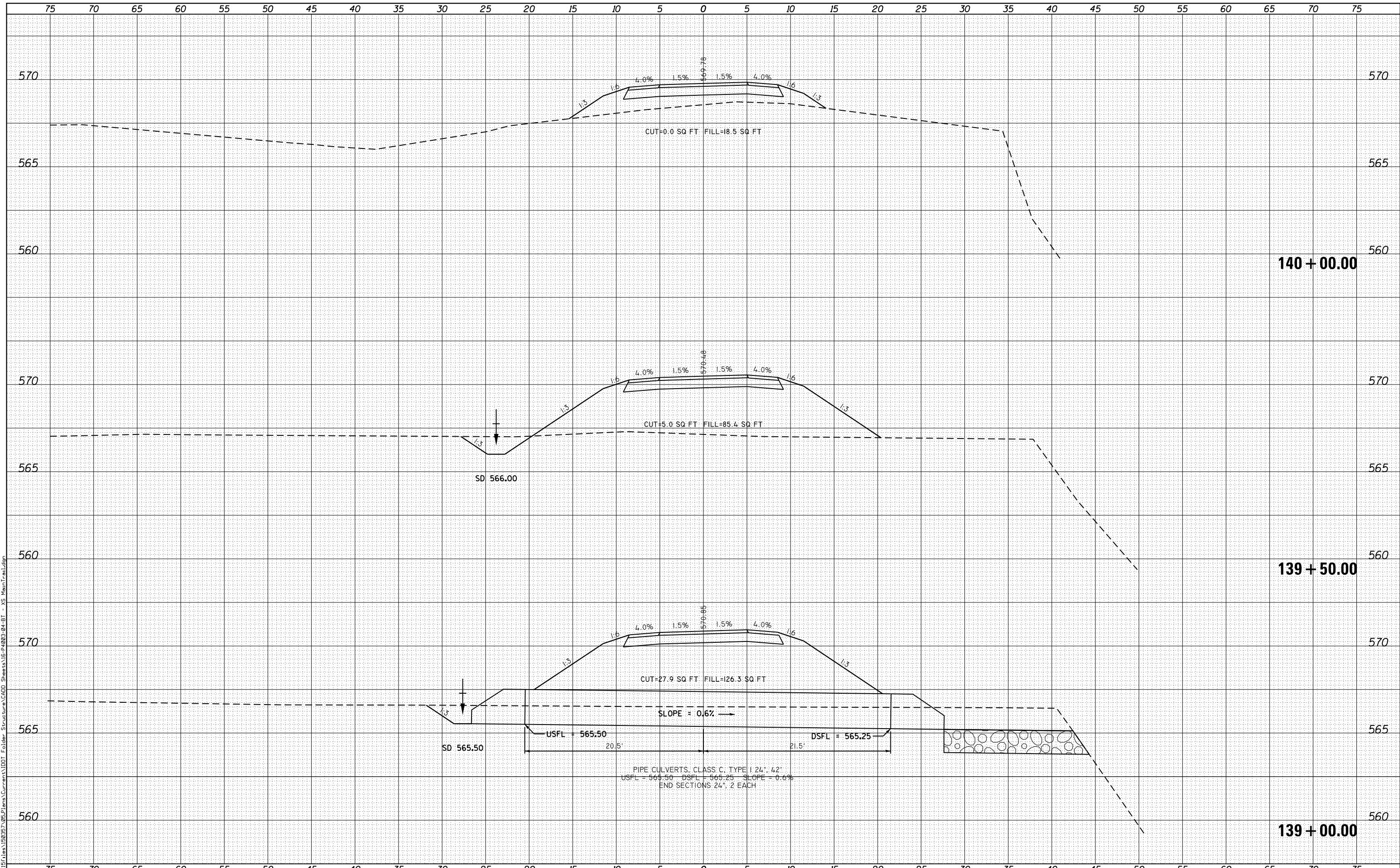
SHEET 10 OF 37 SHEETS STA. 138+00.00 TO STA. 138+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	85
				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 = oms	DESIGNED -	REVISD -
	DRAWN -	REVISD -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISD -
PLOT DATE = 3/2/2018	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

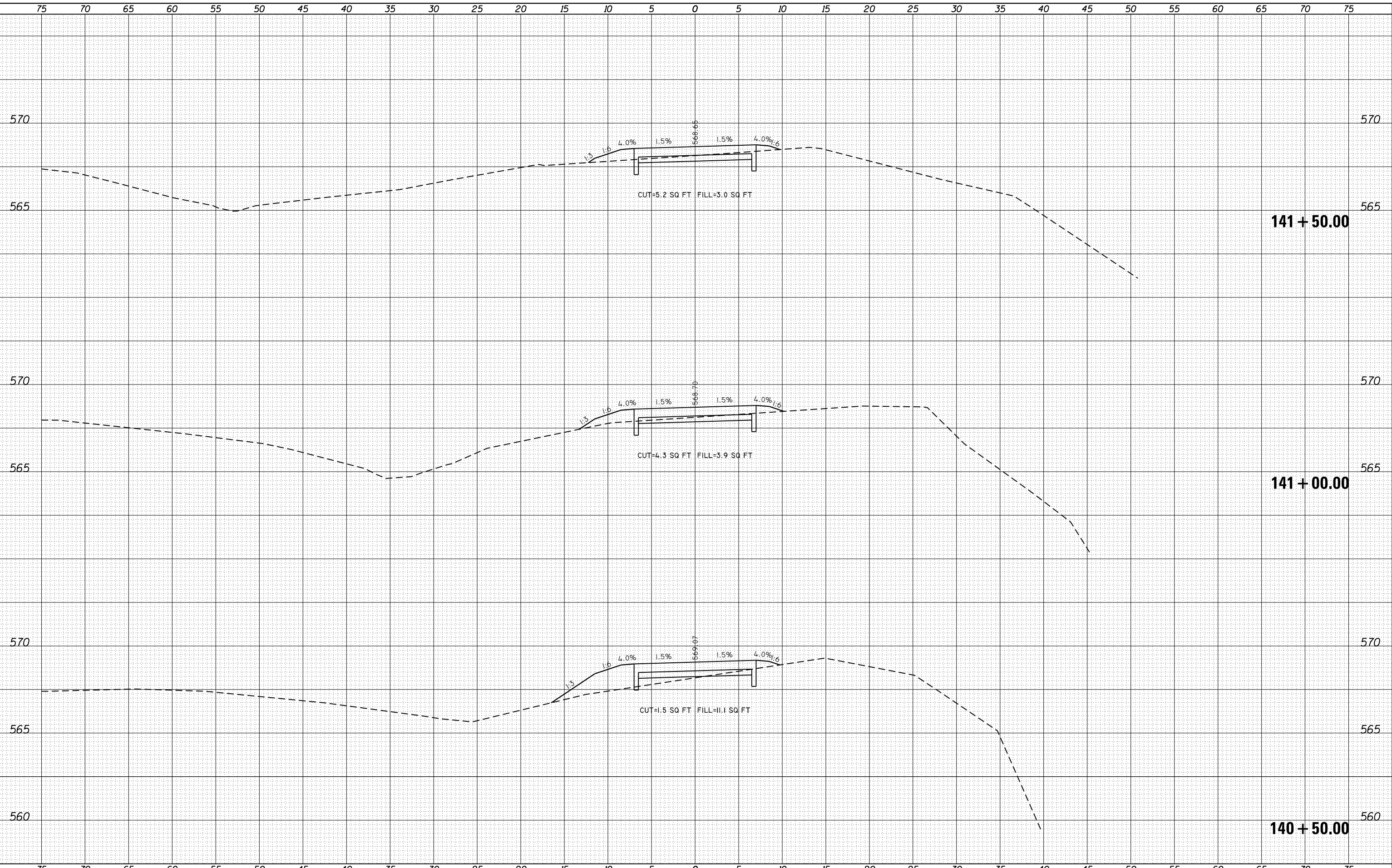
SHEET 11 OF 37 SHEETS STA. 139+00.00 TO STA. 140+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	86
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
FINAL SURVEY	
NO. _____	
ORIGINAL SURVEY	
NO. _____	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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FILE NAME = G:\Projects\16003-04\16003-04-BT - XS Main Trail.dwg



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616 NORTH ST. QUINCY, ILLINOIS 62421 217.223.3670  
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

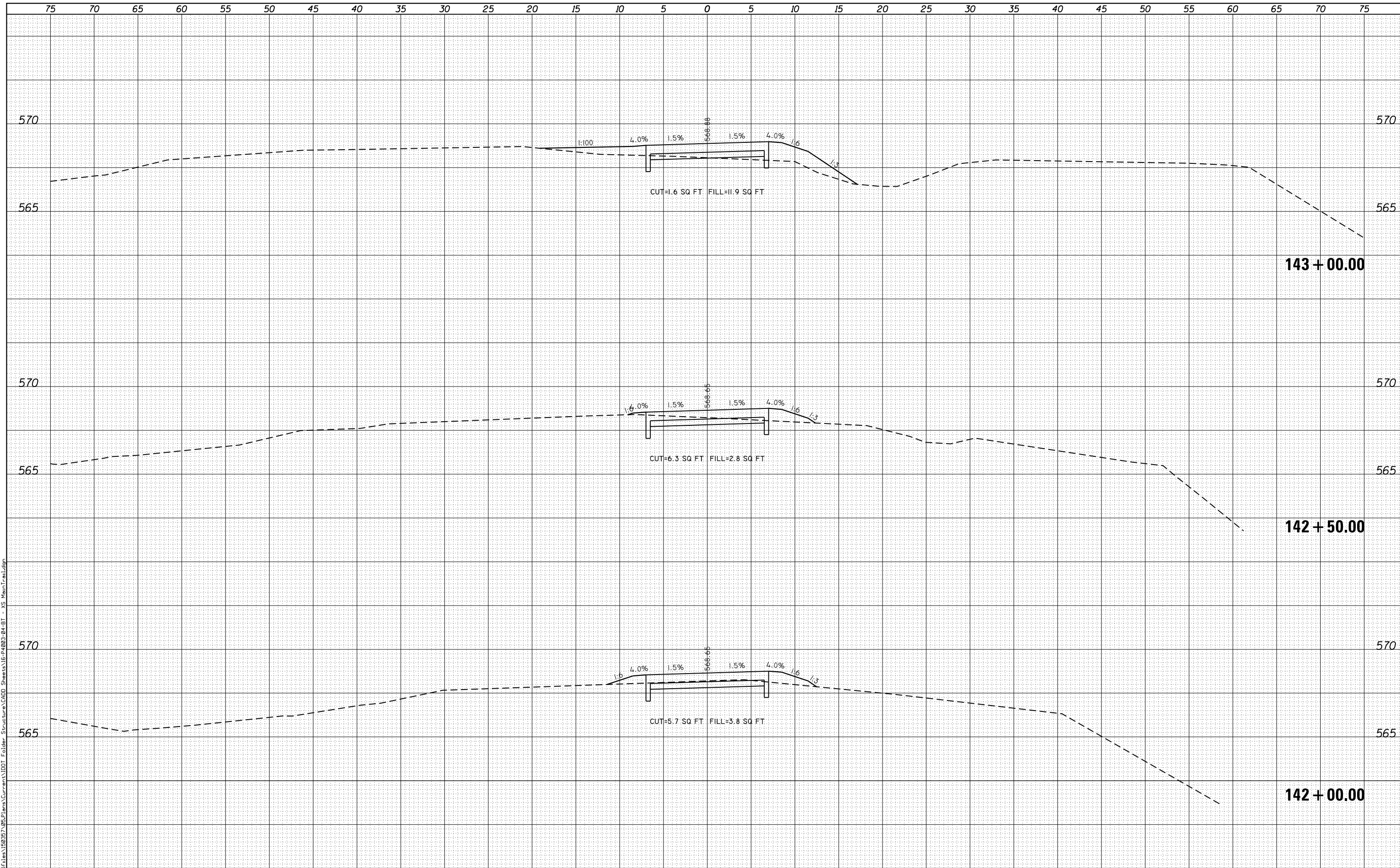
SCALE: 1"=5'H  
1"=2.5'V

SHEET 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	122	87
		CONTRACT NO. 93711		
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

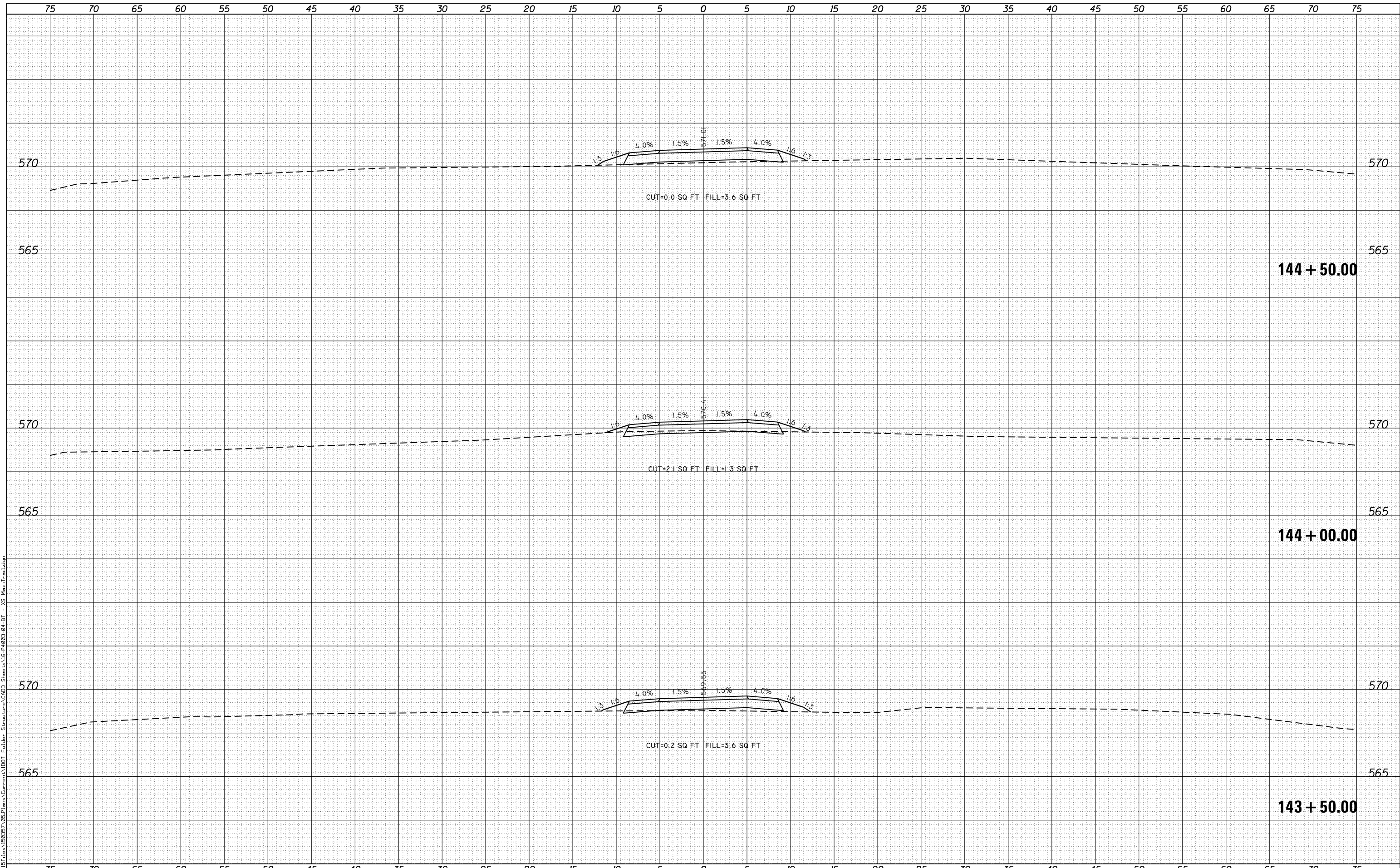




DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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



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

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

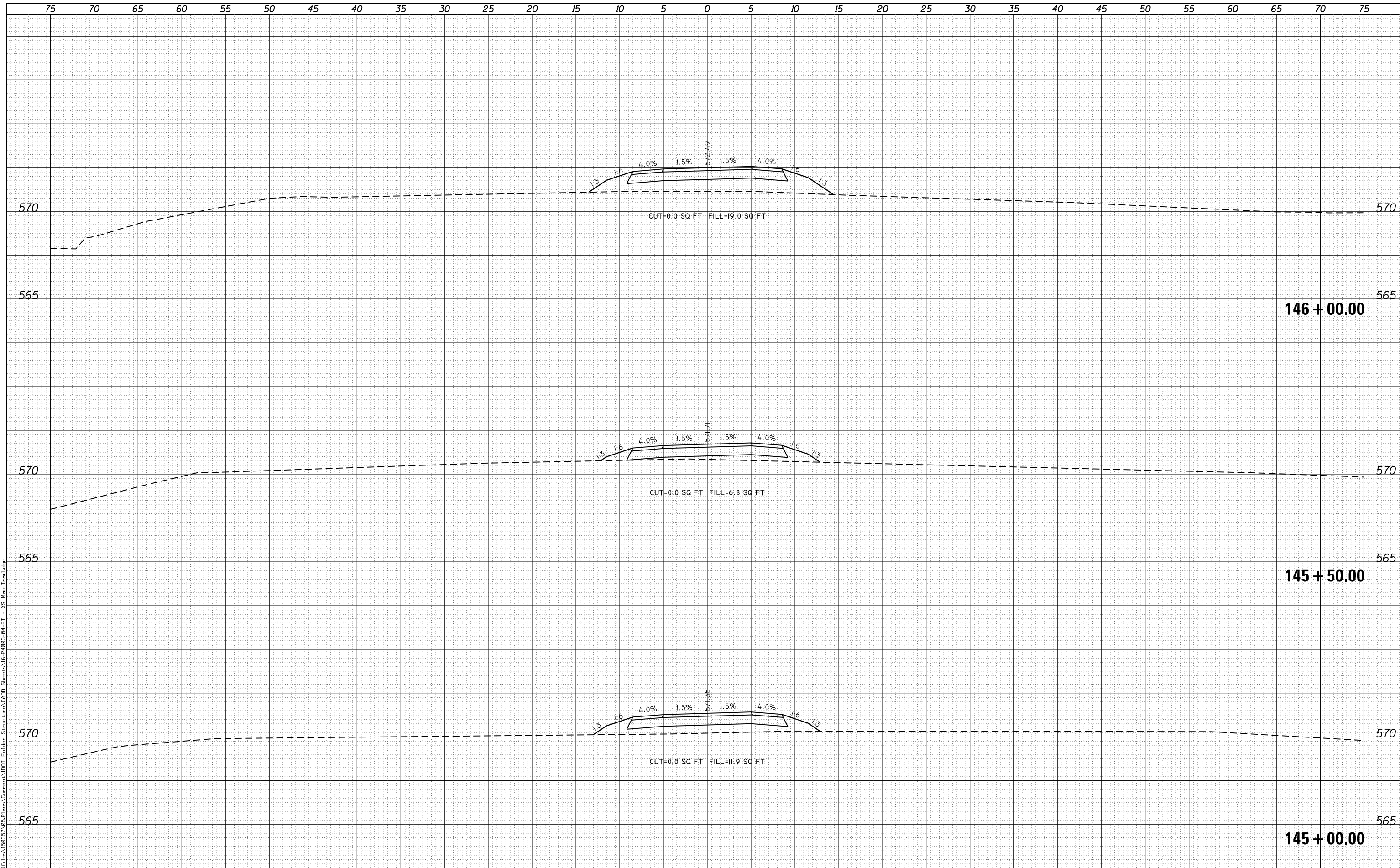
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 BILL KLINGNER TRAIL 18TH ST TO 24TH ST  
 SCALE: 1"=5'H  
 1"=2.5'V  
 SHEET 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	122	89
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

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



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

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 NORTH ST. QUINCY, ILLINOIS 62301 217.233.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

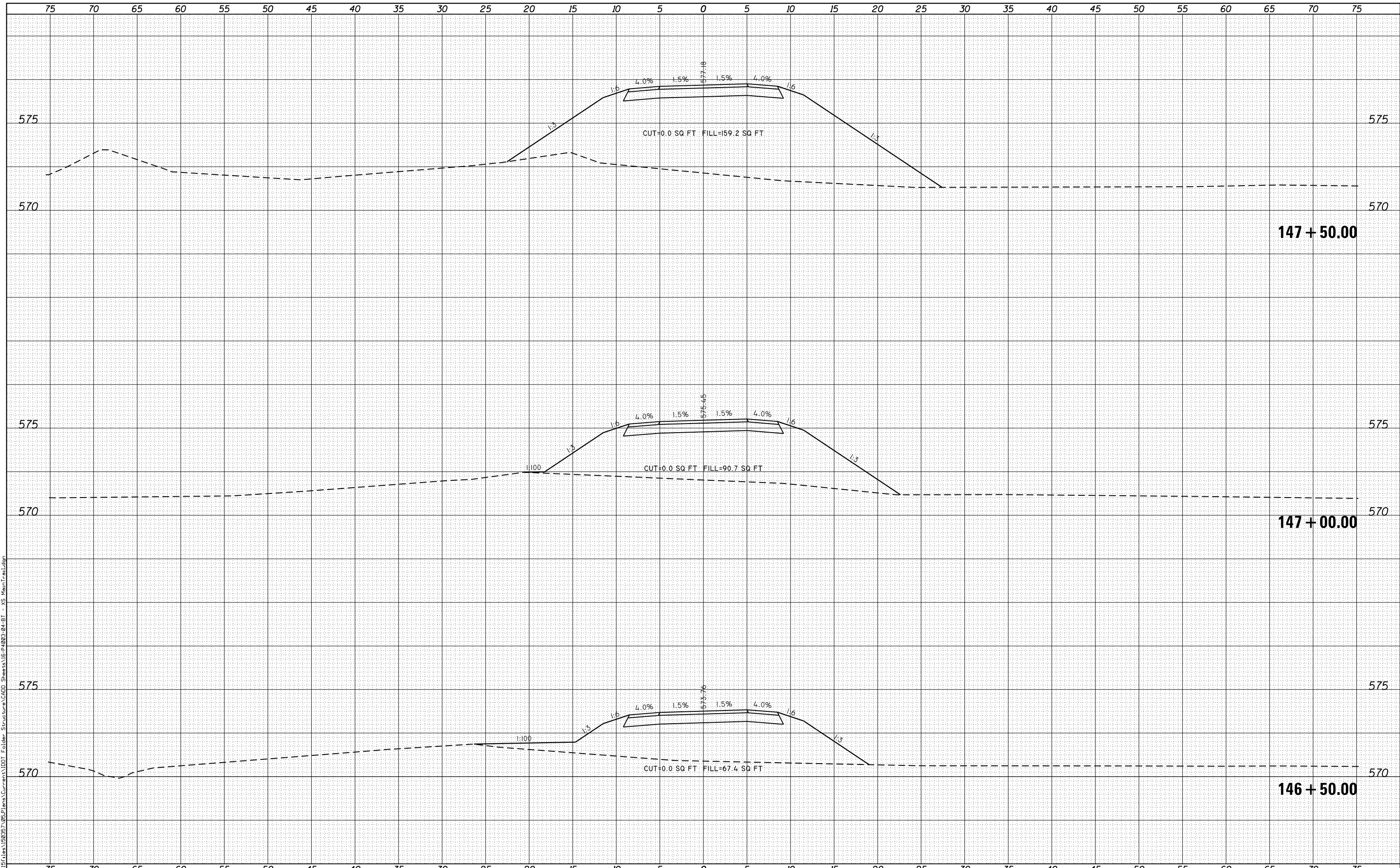
<b>CROSS SECTIONS</b>	
<b>BILL KLINGNER TRAIL 18TH ST TO 24TH ST</b>	
SCALE: 1"=5'H 1"=2.5'V	SHEET 15 OF 37 SHEETS
STA. 145+00.00	TO STA. 146+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	90
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK	
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 62301 217.223.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

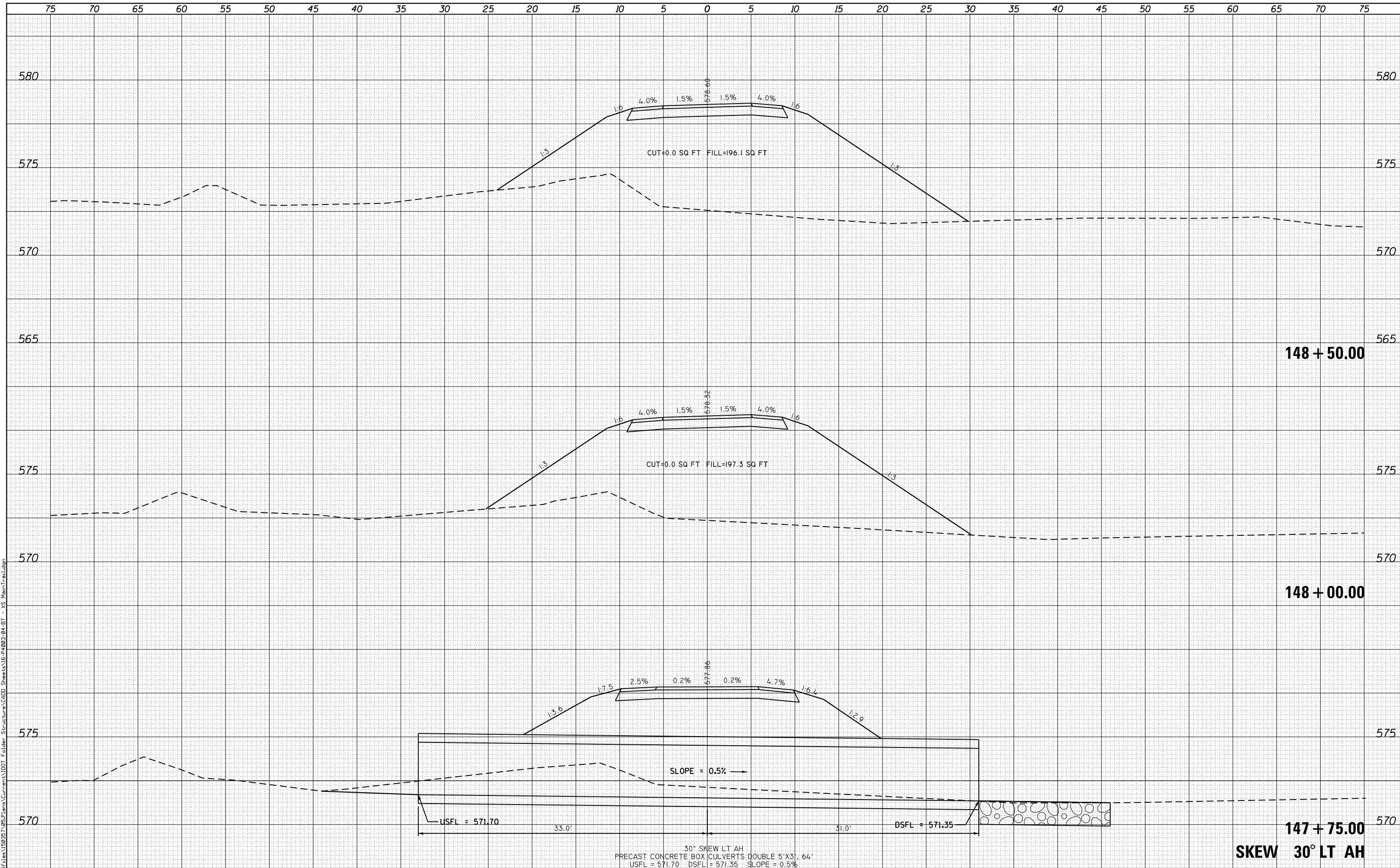
SCALE: 1"=5'H  
 1"=2.5'V

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	122	91
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



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 Engineers • Architects • Surveyors  
 616 NORTH ST. QUINCY, ILLINOIS 62431-2233-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	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

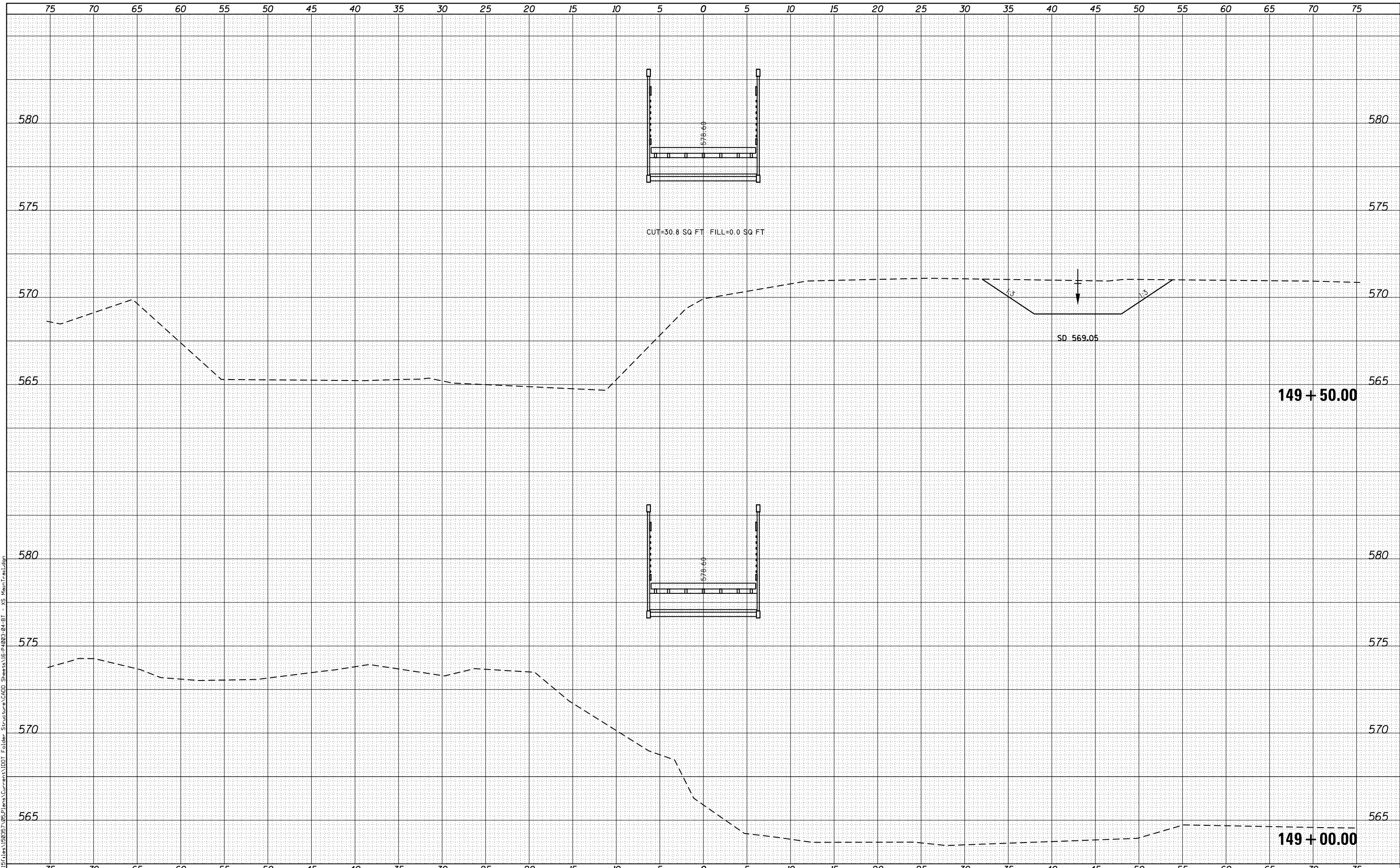
SHEET 17 OF 37 SHEETS STA. 147+75.00 TO STA. 148+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	92
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

BY	DATE
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=30.8 SQ FT FILL=0.0 SQ FT

SD 569.05

149 + 50.00

149 + 00.00

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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/2/2018	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

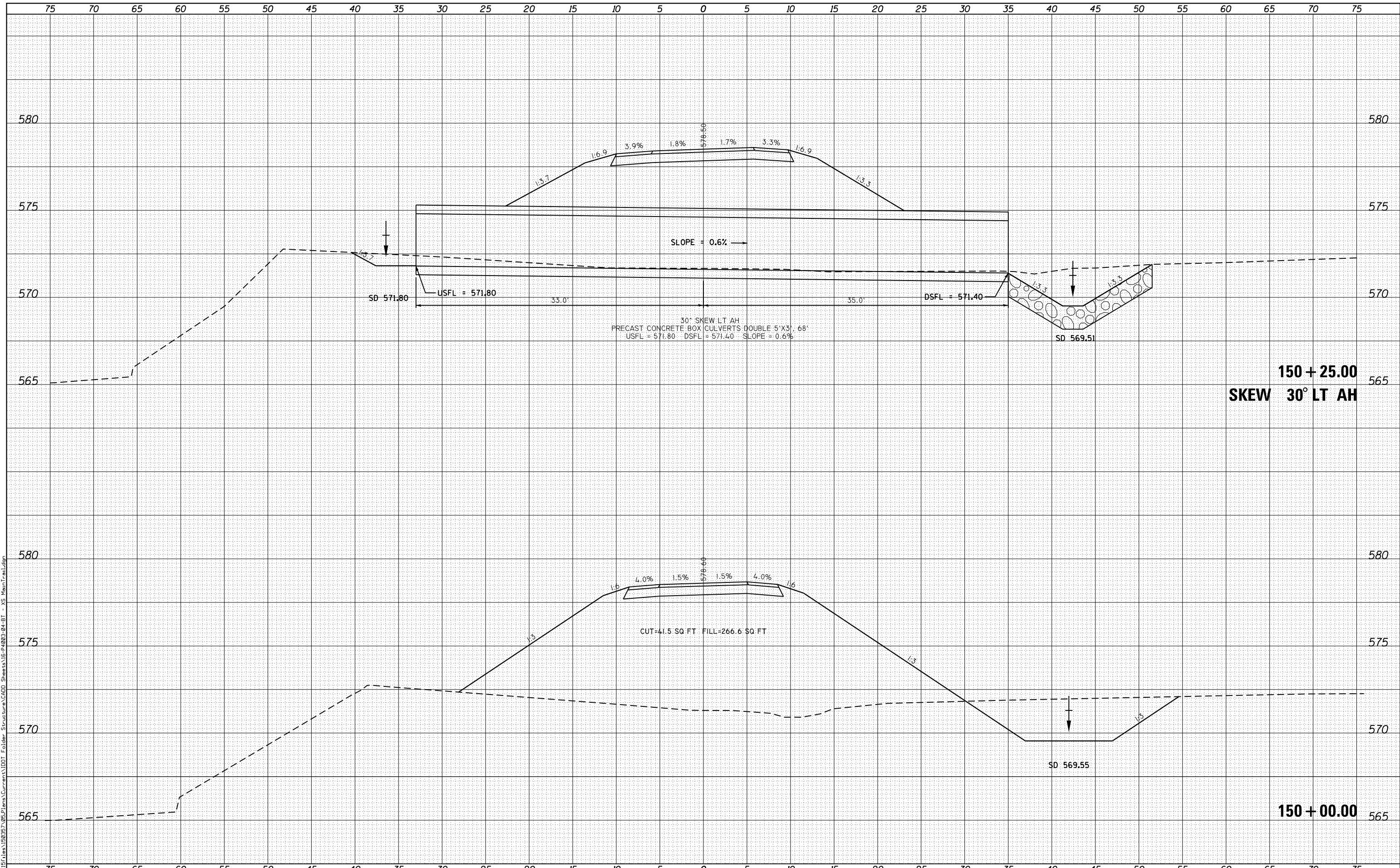
**CROSS SECTIONS**  
**BILL KLINGNER TRAIL 18TH ST TO 24TH ST**  
 SCALE: 1"=5'H  
 1"=25.5'V SHEET 18 OF 37 SHEETS STA. 149+00.00 TO STA. 149+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	93
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

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



**150 + 25.00**  
**SKEW 30° LT AH**

**150 + 00.00**

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

USER NAME = oms	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 3/2/2018	CHECKED -	REVISD -
	DATE -	REVISD -

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

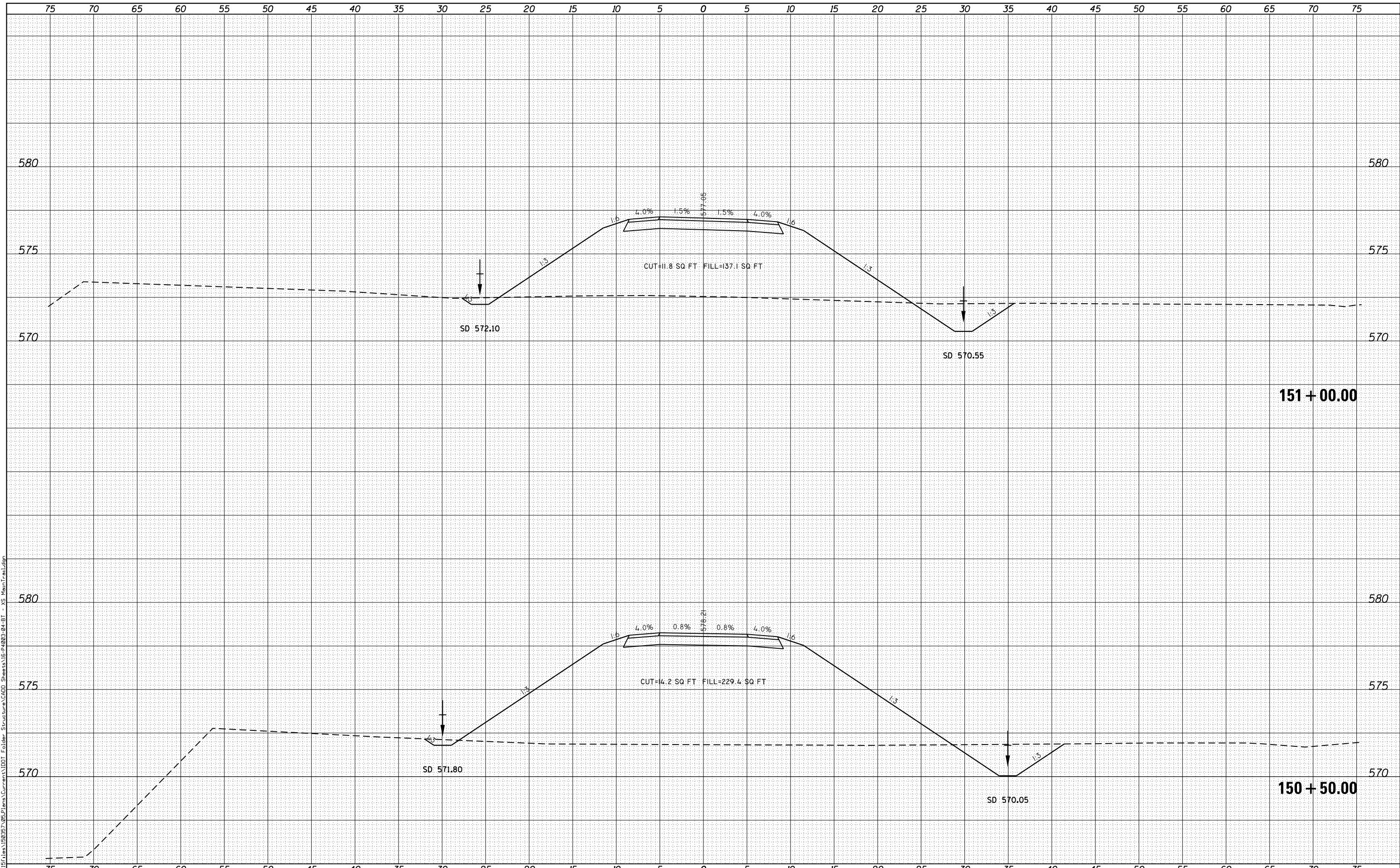
**CROSS SECTIONS**  
**BILL KLINGNER TRAIL 18TH ST TO 24TH ST**  
SCALE: 1"=5'H  
1"=2.5'V  
SHEET 19 OF 37 SHEETS  
STA. 150+00.00 TO STA. 150+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	94
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
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

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	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 20 OF 37 SHEETS STA. 150+50.00 TO STA. 151+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	95
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

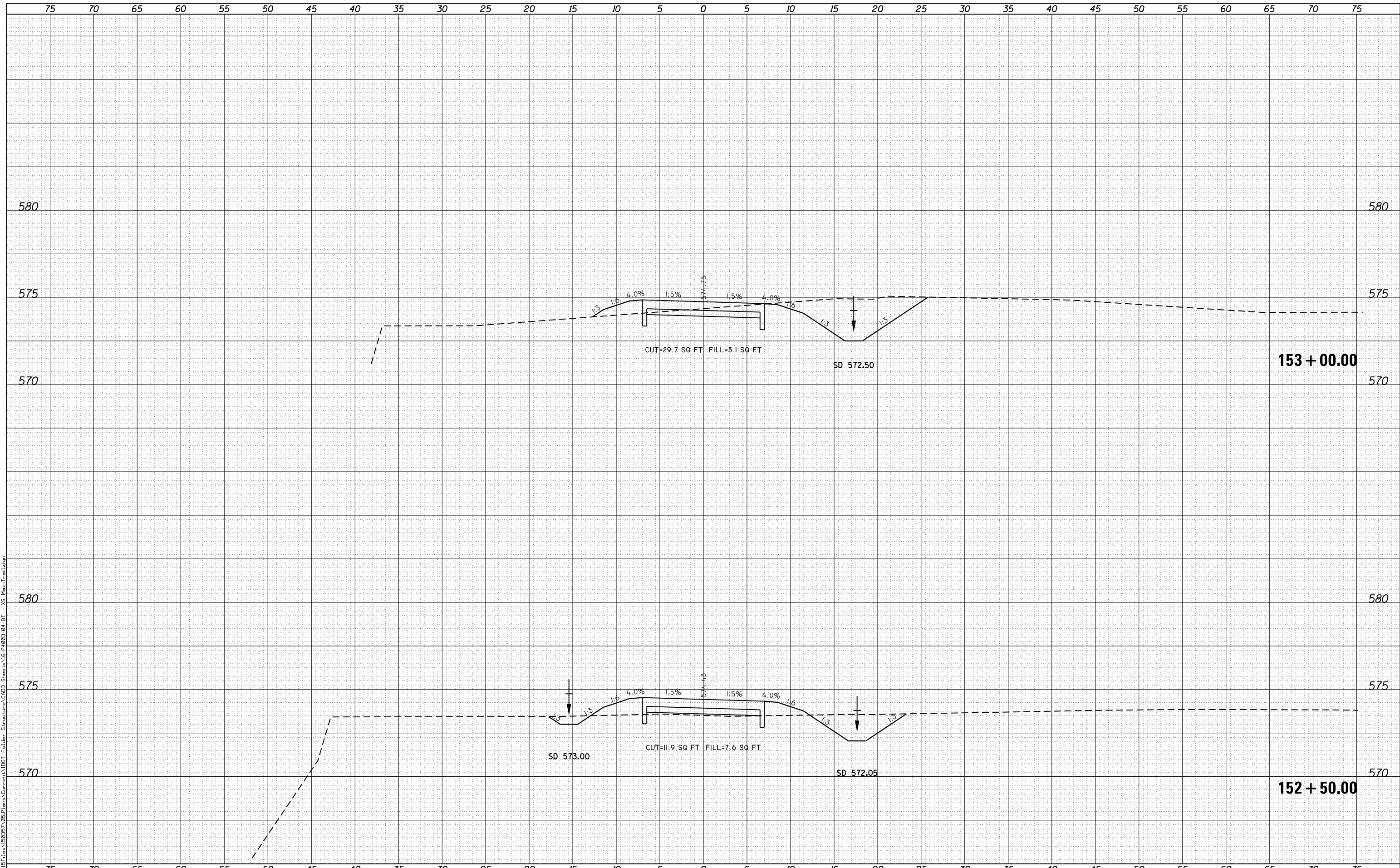




DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

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

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



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

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	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 22 OF 37 SHEETS  
 STA. 152+50.00 TO STA. 153+00.00

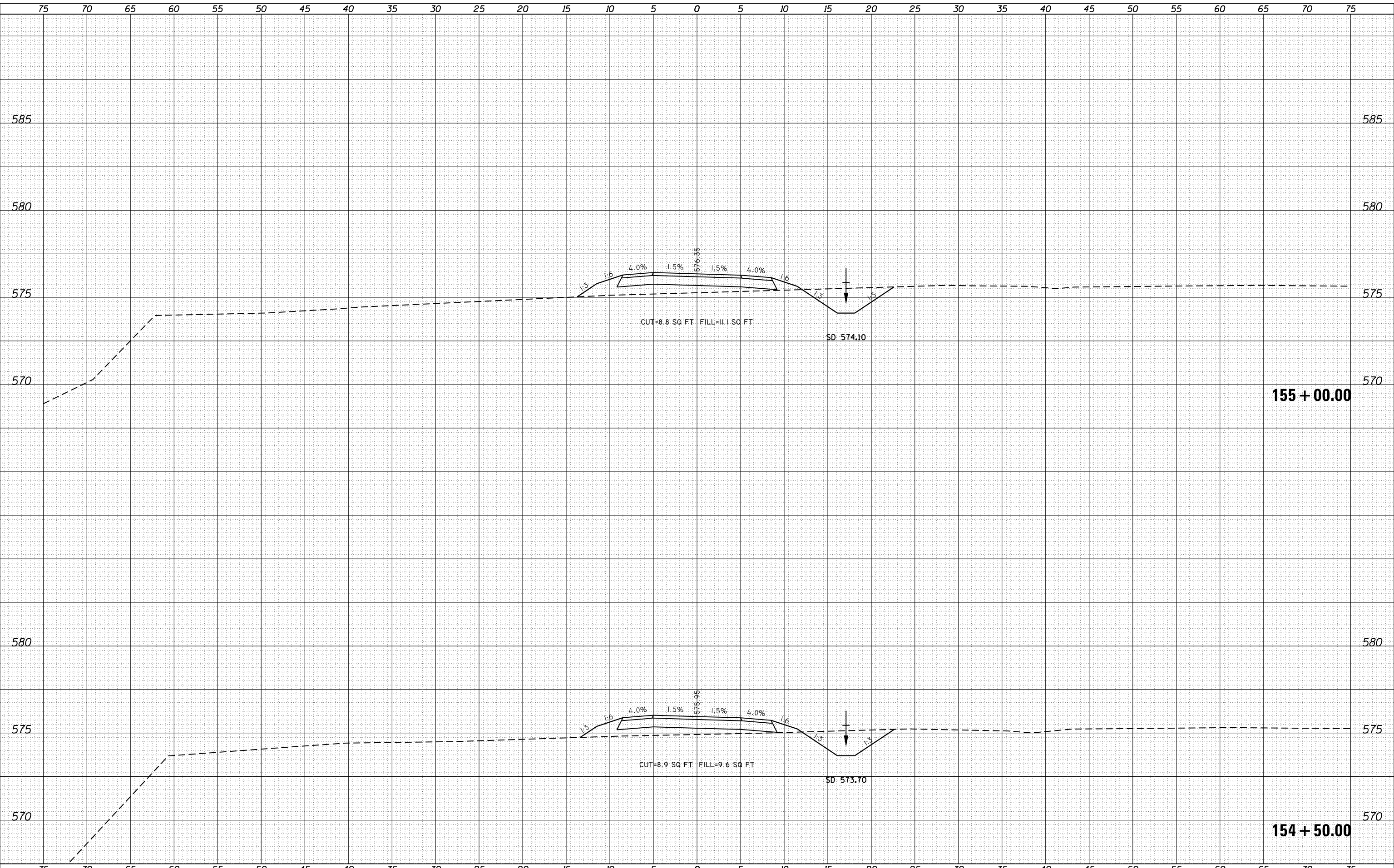
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	97
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				



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

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

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



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 3/2/2018	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 24 OF 37 SHEETS

STA. 154+50.00 TO STA. 155+00.00

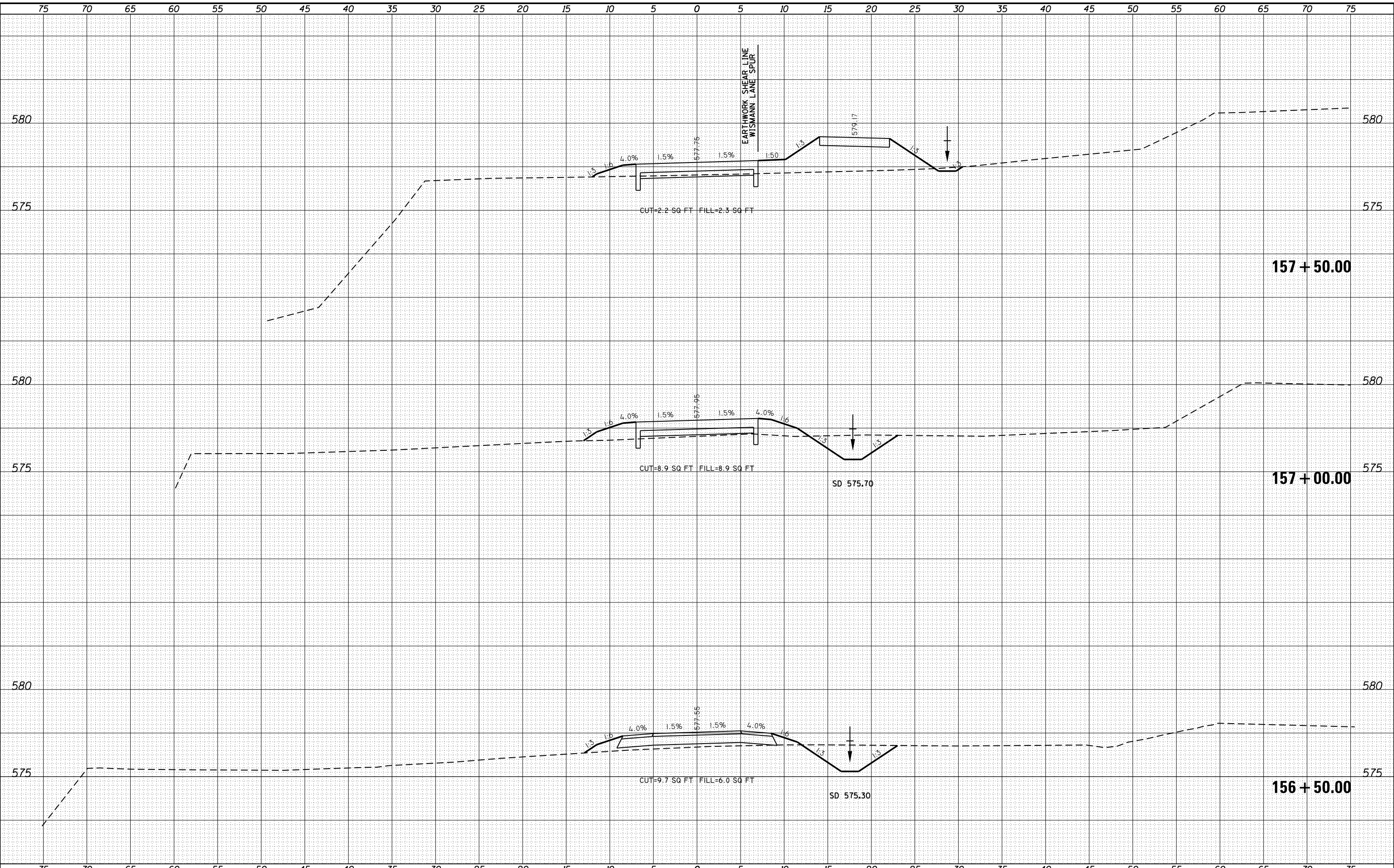
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	99
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				



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

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

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



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

USER NAME = oms	DESIGNED -	REVISD -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISD -
PLOT DATE = 6/6/2018	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

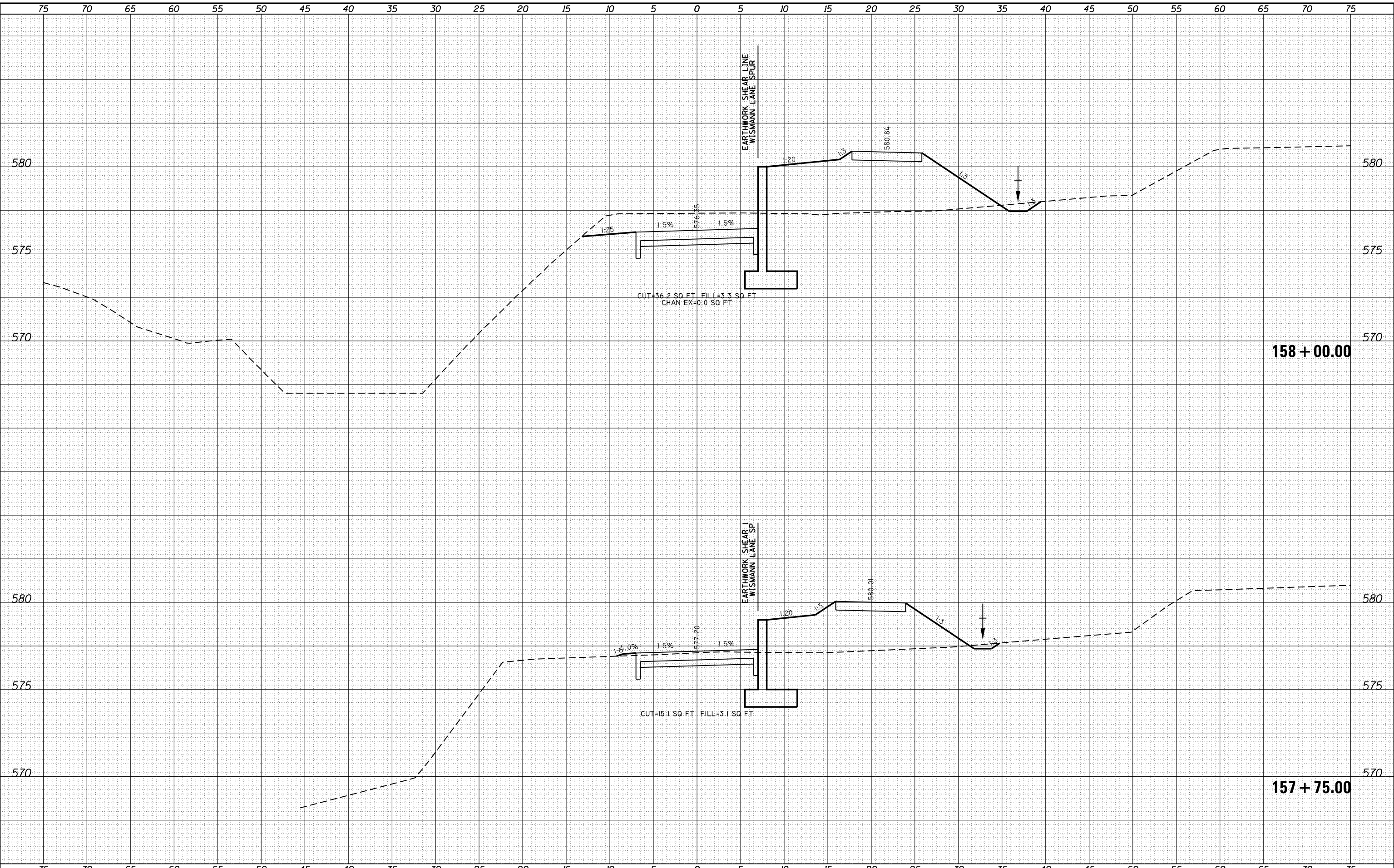
SHEET 26 OF 37 SHEETS STA. 156+50.00 TO STA. 157+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	101
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED	
TEMPLATE AREAS CHECKED	
NOTE BOOK	
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 = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 6/6/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

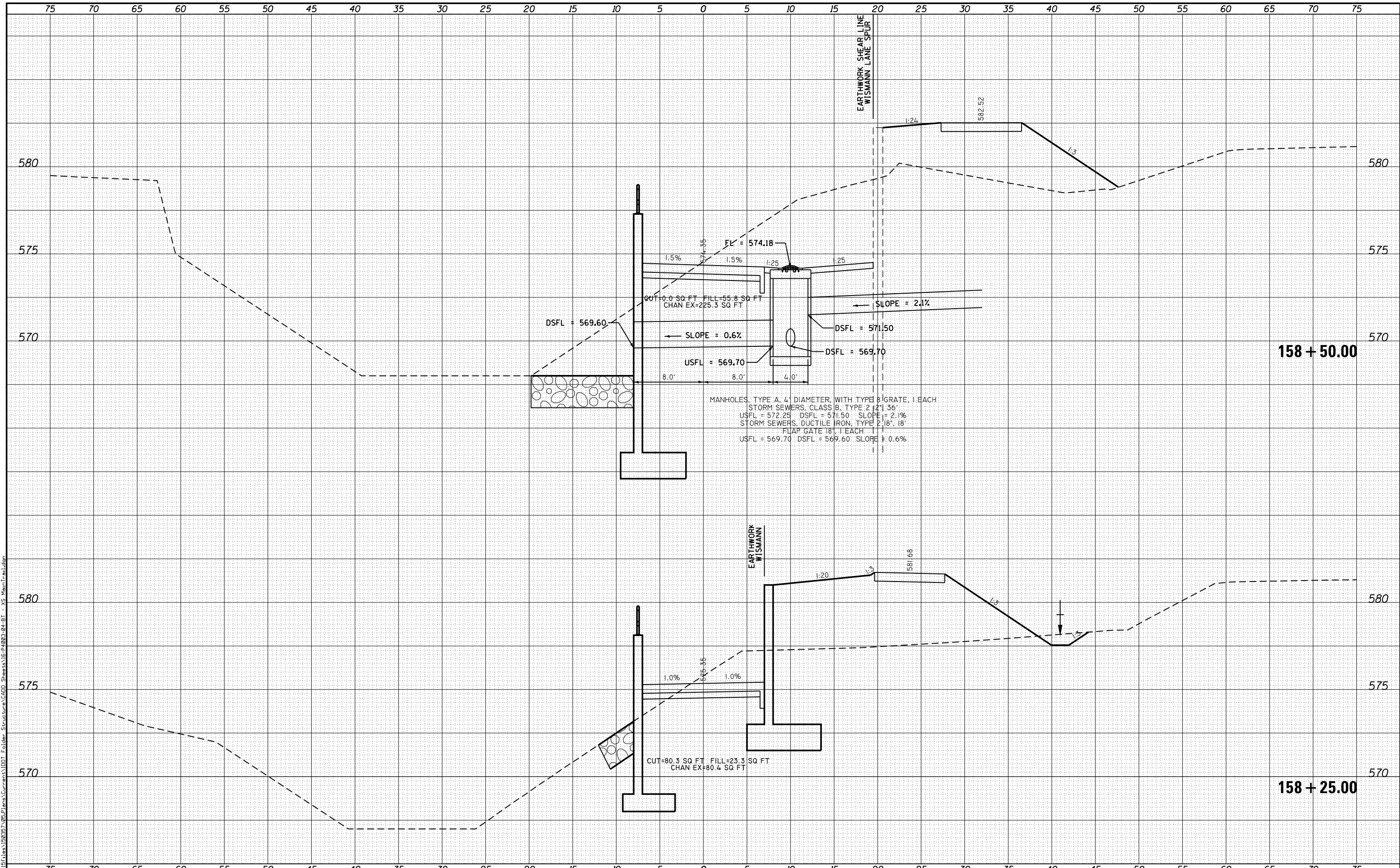
<b>CROSS SECTIONS</b>	
<b>BILL KLINGNER TRAIL 18TH ST TO 24TH ST</b>	
SCALE: 1"=5'H 1"=2.5'V	SHEET 27 OF 37 SHEETS
STA. 157+75.00	TO STA. 158+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	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 Trunkline



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 616 NORTH ST. QUINCY, ILLINOIS 62431-2233-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 6/6/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
<b>BILL KLINGNER TRAIL 18TH ST TO 24TH ST</b>	
SCALE: 1"=5'H 1"=25.5'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	122	103
CONTRACT NO. 93711				
ILLINOIS FED. AID PROJECT				













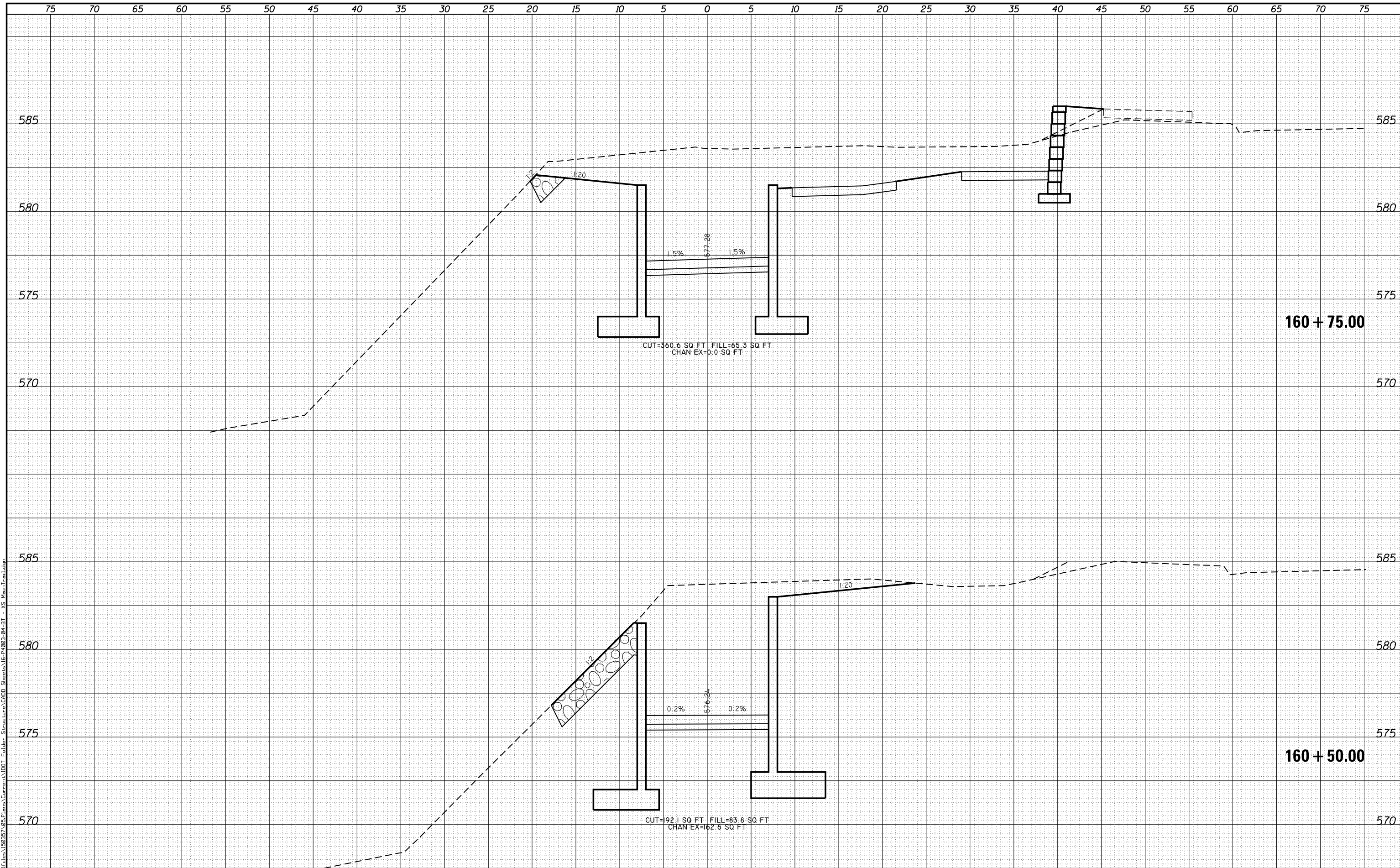




BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0004' / in.	DRAWN -	REVISIED -
PLOT DATE = 6/6/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

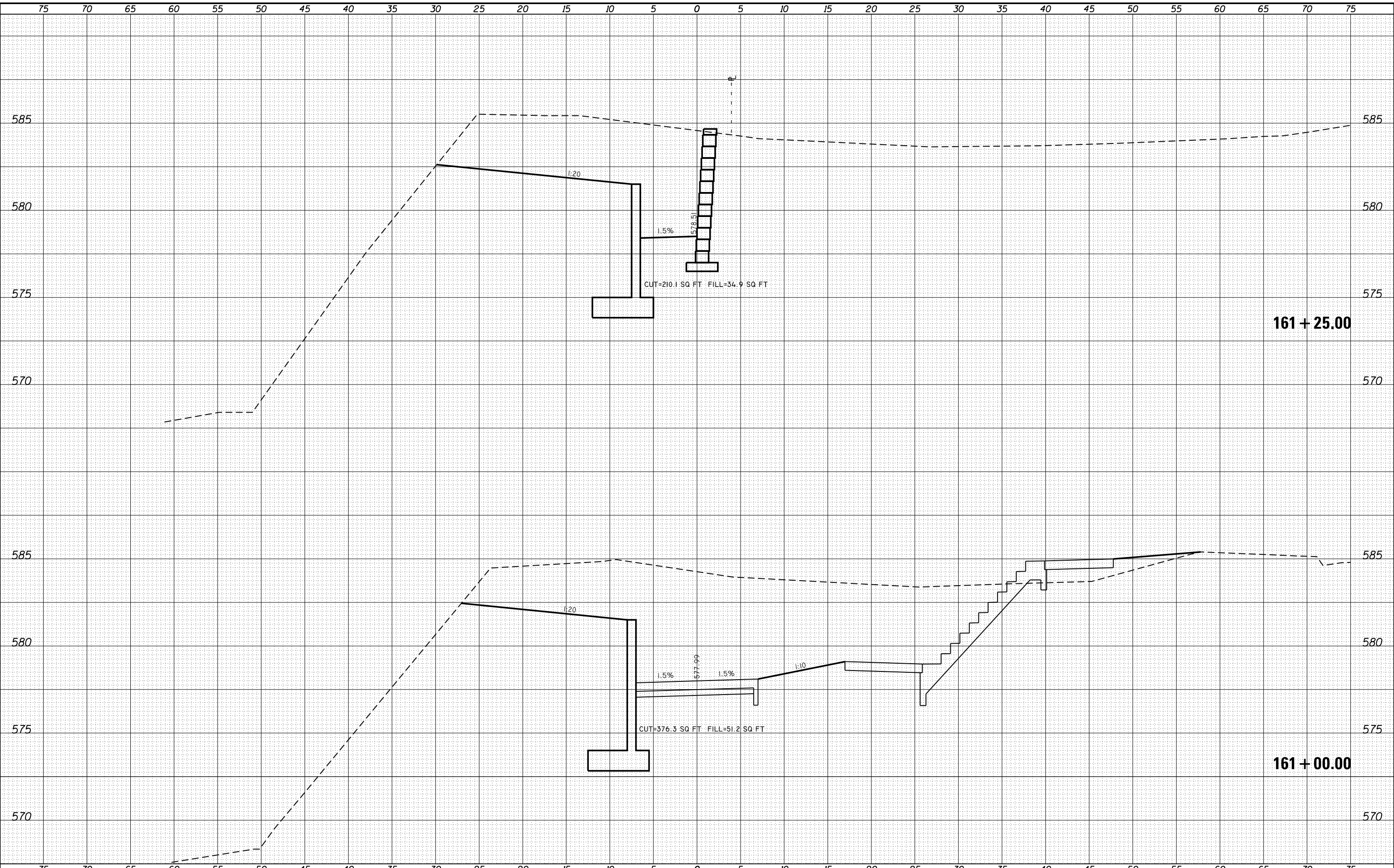
SCALE: SHEET 36 OF 37 SHEETS STA. 160+50.00 TO STA. 160+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	111
			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 62421-2233-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0002' / in.	DRAWN -	REVISIED -
PLOT DATE = 6/6/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET 37 OF 37 SHEETS STA. 161+00.00 TO STA. 161+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	112
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

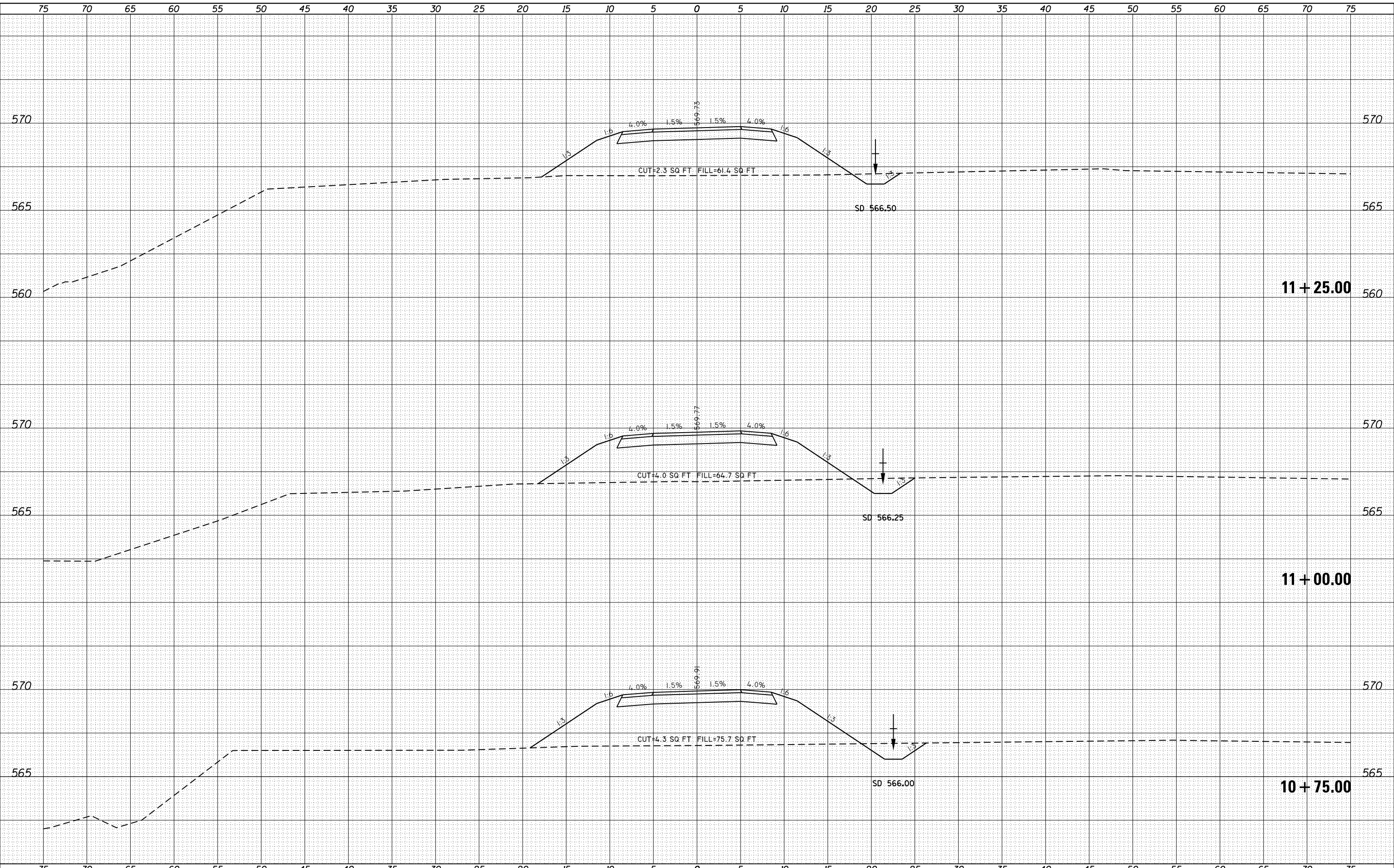




DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
AREAS CHECKED	
NO.	

FILE NAME = G:\Projects\16003\16003-04-BT - XS Quintron Way Spur.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 = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

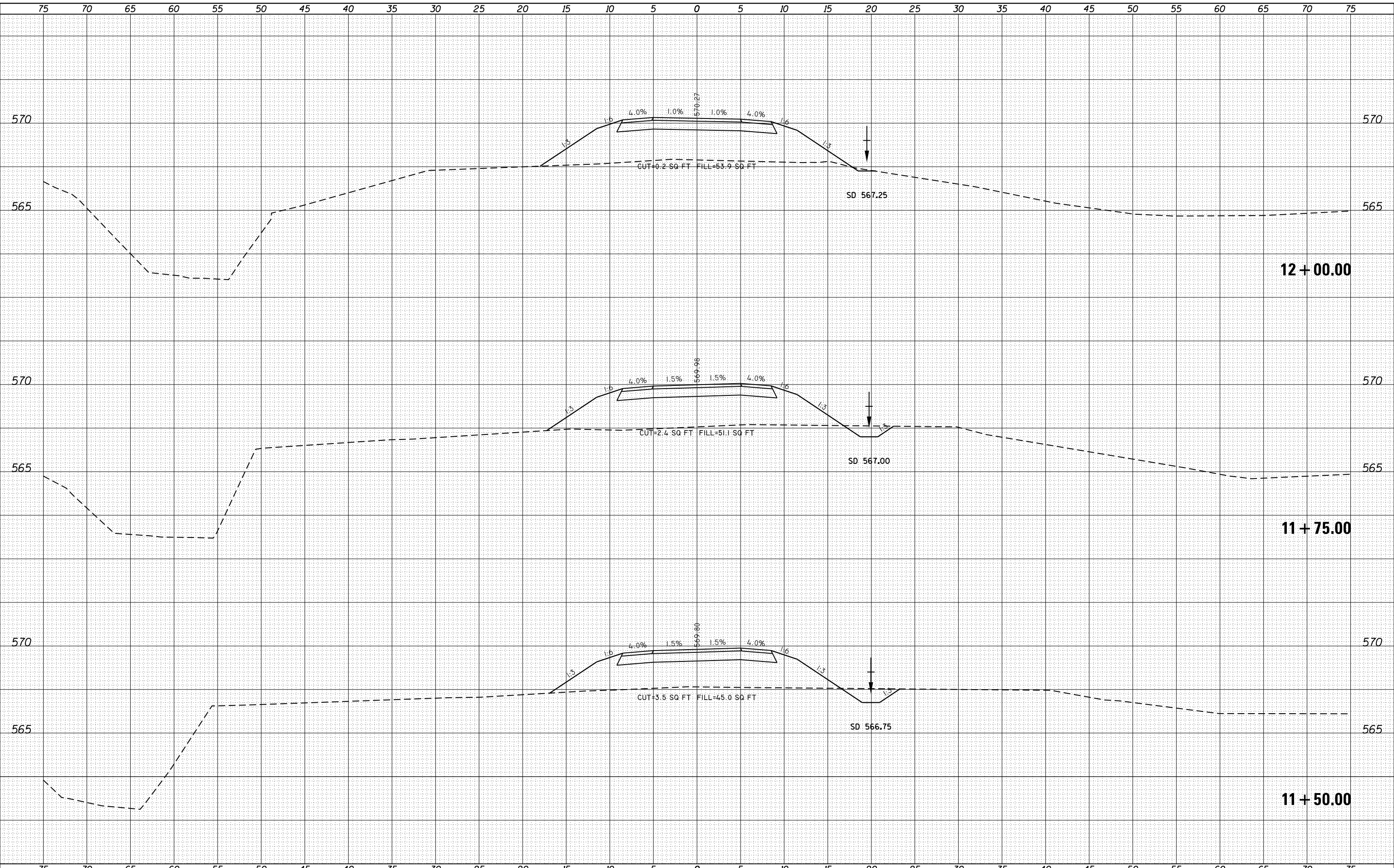
**CROSS SECTIONS  
 QUINTRON WAY SPUR**  
 SCALE: 1"=5'H  
 1"=25.5'V  
 SHEET 2 OF 4 SHEETS  
 STA. 10+75.00 TO STA. 11+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	114
			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 Quintron Way Spur.dgn



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 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 QUINTRON WAY SPUR**

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

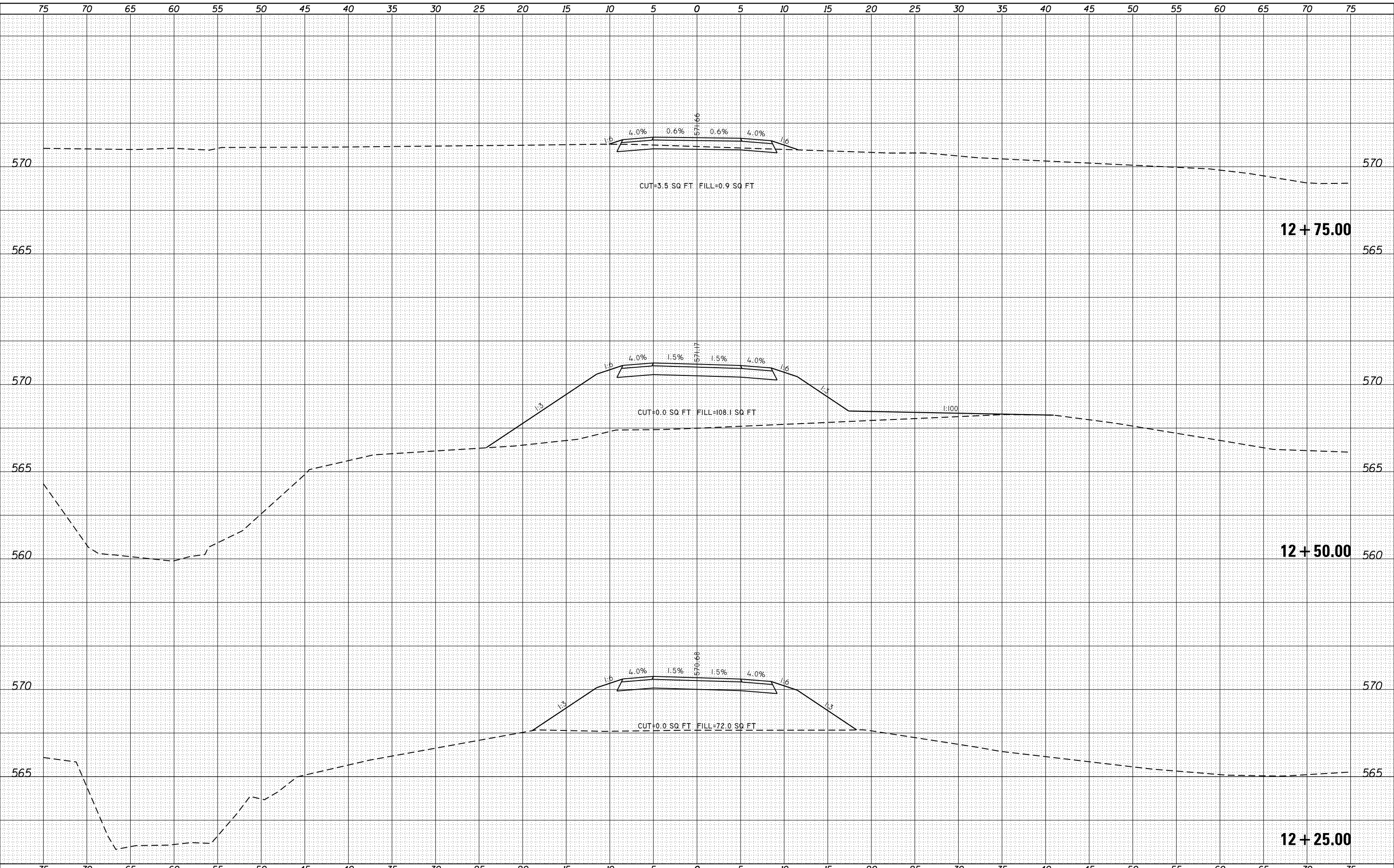
SHEET 3 OF 4 SHEETS STA. 11+50.00 TO STA. 12+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	115
			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 Quintron Way Spur.dgn



**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 NORTH ST. QUINCY, ILLINOIS 62431-2173  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 QUINTRON WAY SPUR**

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

SHEET 4 OF 4 SHEETS STA. 12+25.00 TO STA. 12+75.00

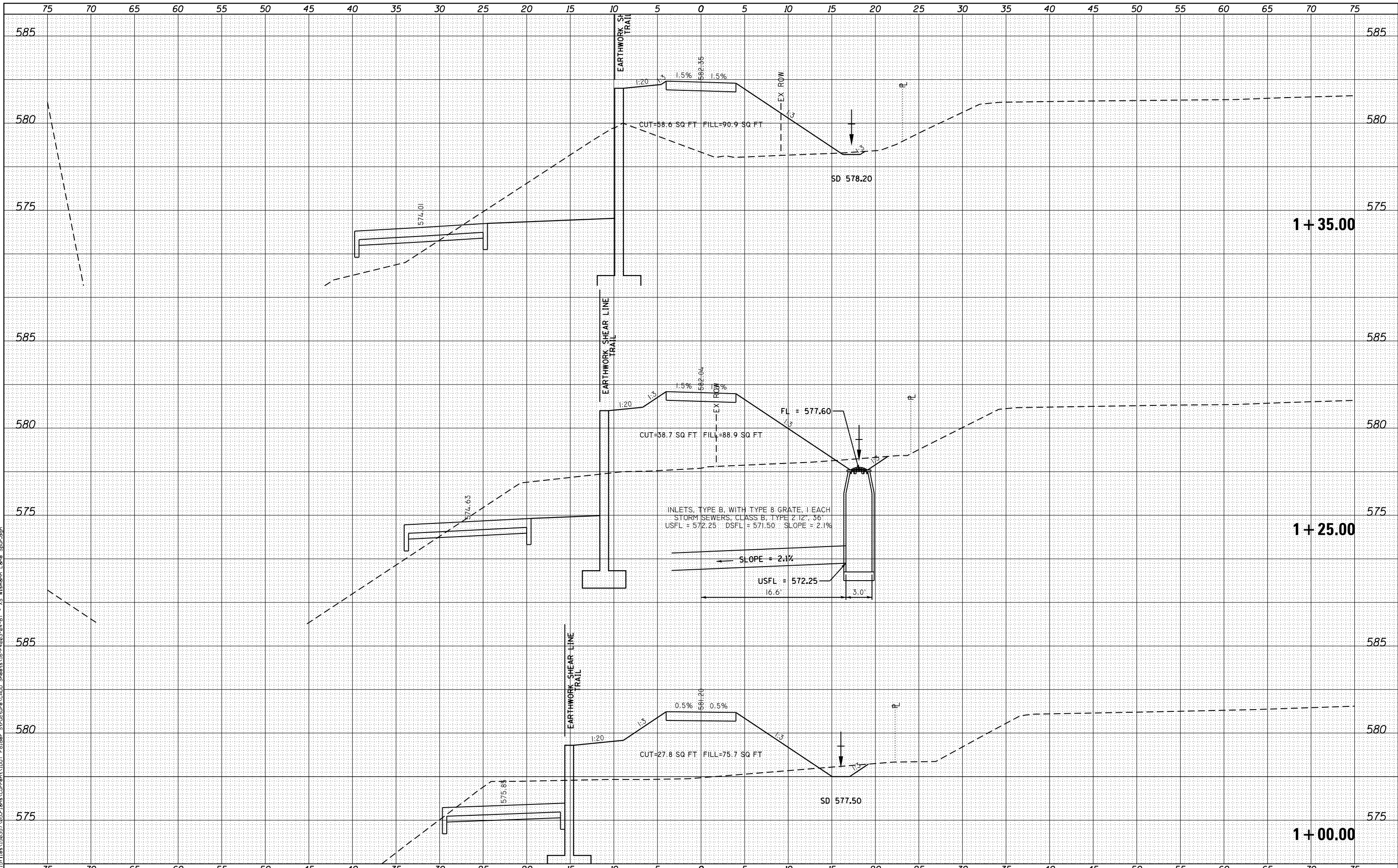
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	116
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				



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

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

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



**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 NORTH ST. QUINCY, ILLINOIS 62301 217.233.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms  
 PLOT SCALE = 10.0000' / 1"  
 PLOT DATE = 3/2/2018

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 WISMANN LANE SPUR  
 SCALE: 1" = 5'H  
 1" = 2.5' V  
 SHEET 2 OF 6 SHEETS  
 STA. 1+00.00 TO STA. 1+35.00

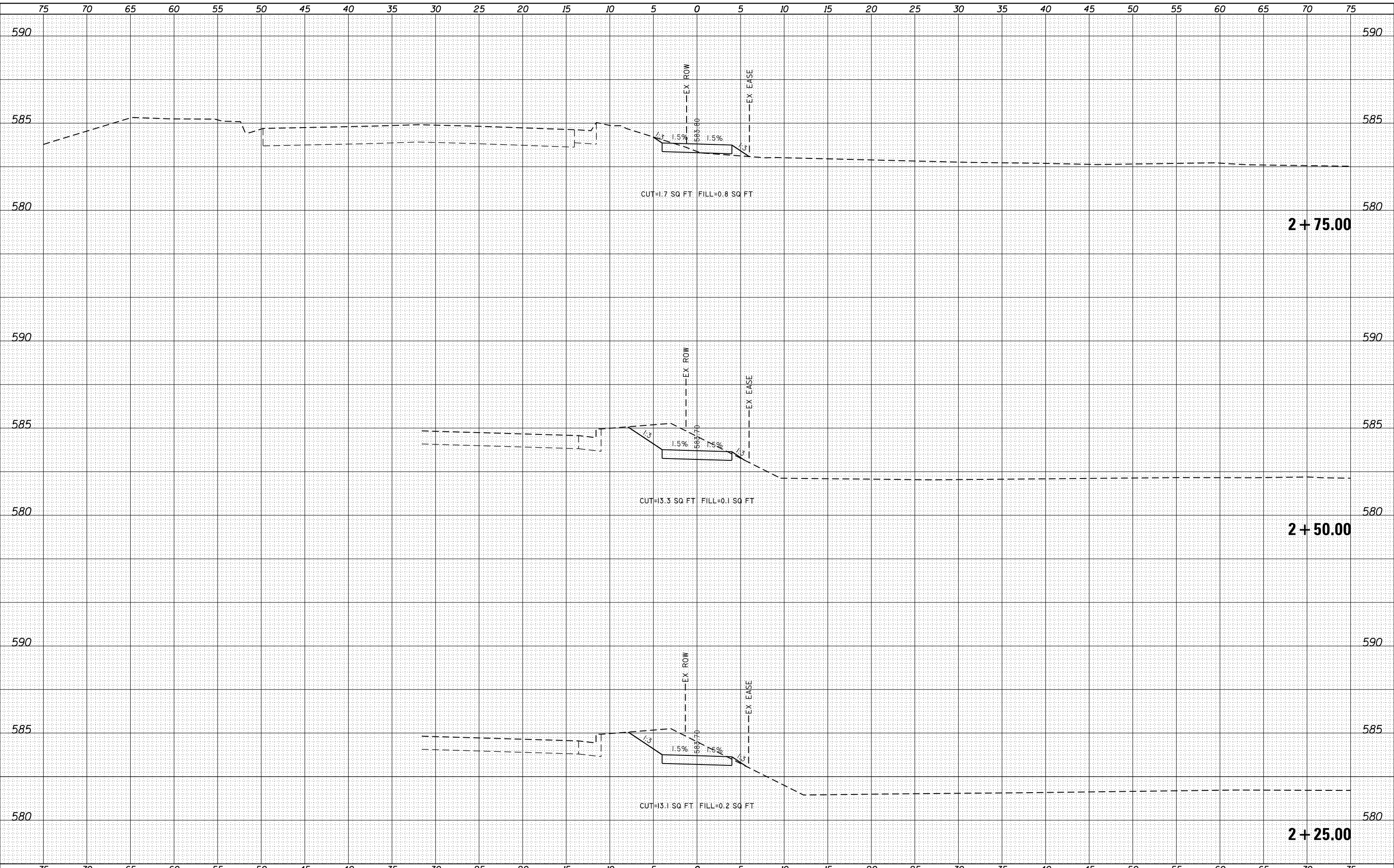
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	118
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

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



**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 NORTH ST. QUINCY, ILLINOIS 62301 217.233.3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WISMANN LANE SPUR**

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

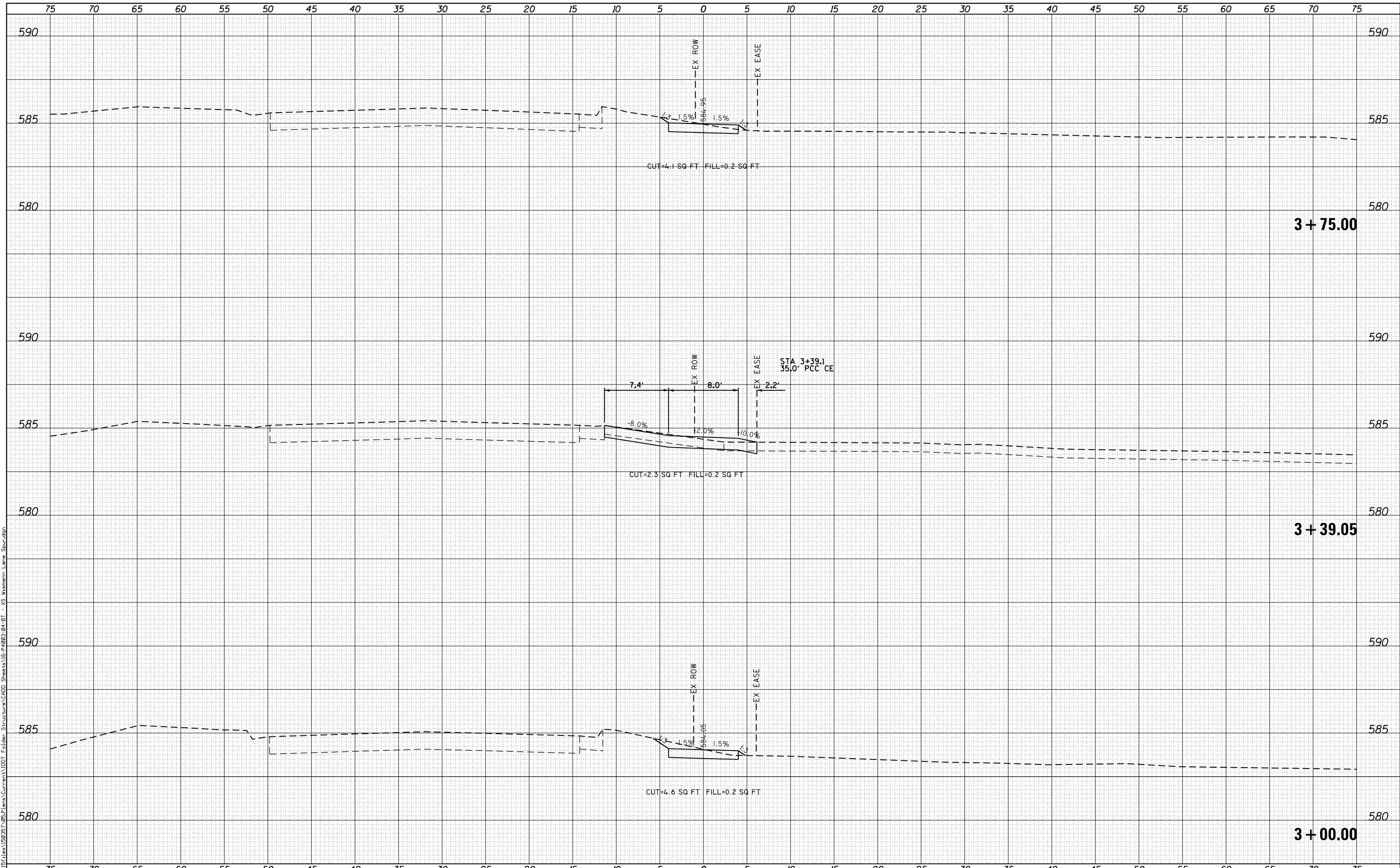
SHEET 4 OF 6 SHEETS STA. 2+25.00 TO STA. 2+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-P4003-04-BT	ADAMS	122	120
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	



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

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 NORTH ST. QUINCY, ILLINOIS 62421-2233-3670  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISIED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -
PLOT DATE = 3/2/2018	CHECKED -	REVISIED -
	DATE -	REVISIED -

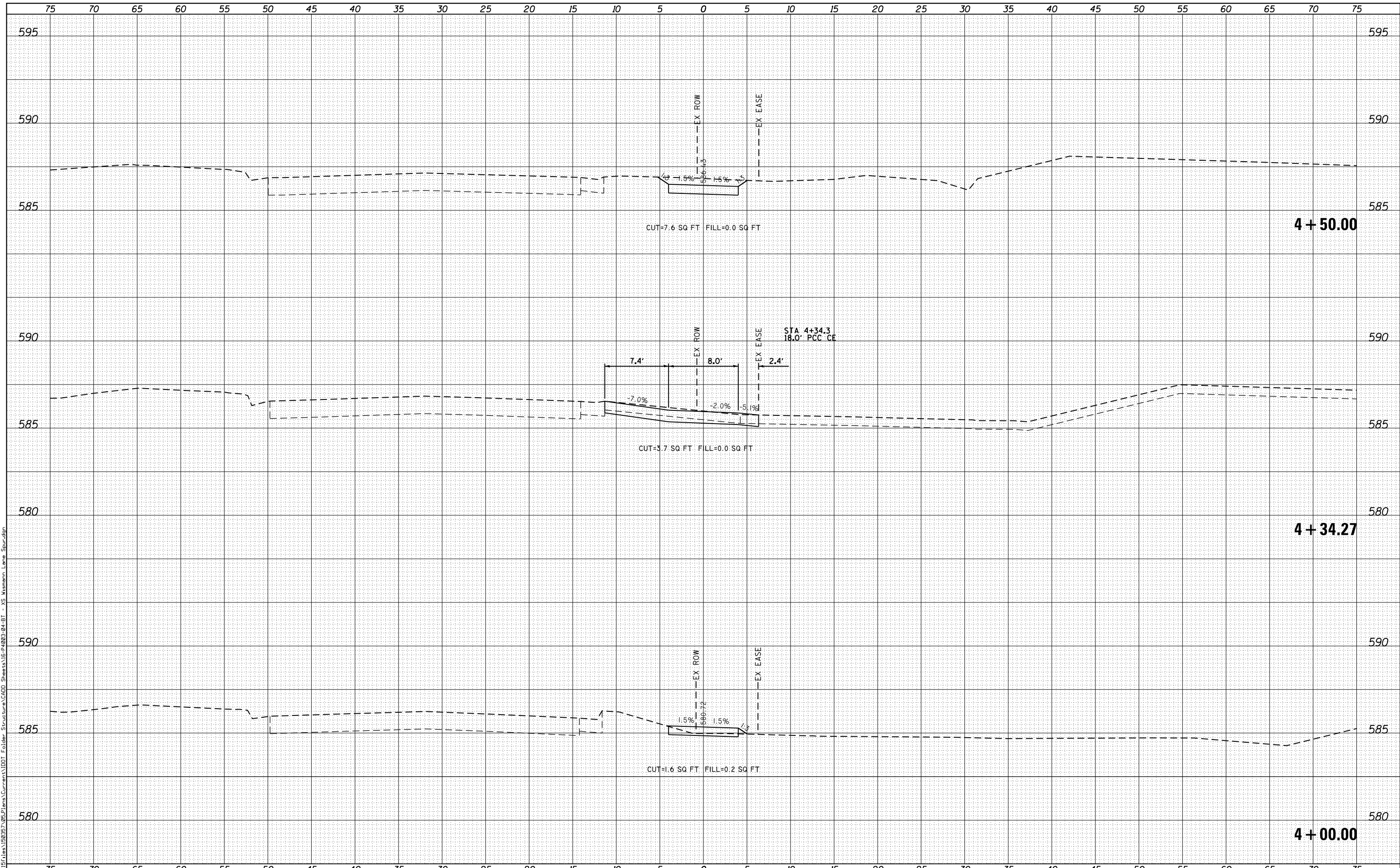
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 WISMANN LANE SPUR**  
 SCALE: 1"=5'H  
 1"=2.5'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	122	121
			CONTRACT NO. 93711	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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

**KLINGNER & ASSOCIATES, P.C.**  
 Engineers • Architects • Surveyors  
 616 NORTH ST. QUINCY, ILLINOIS 62301-2172  
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = oms	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/2/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**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	122	122
				CONTRACT NO. 93711
ILLINOIS FED. AID PROJECT				