

CONTRACT NO. 83880				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	1
COVER SHEET				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED FEDERAL AID PROJECT
F.A.U. ROUTE 0177 (MONAVILLE ROAD – COUNTY HIGHWAY 55)
AT GRANT WOODS FOREST PRESERVE
CHAIN O' LAKES BIKE PATH UNDERPASS
SECTION 01-00168-06-BT**

**PROJECT NO. HD-8003(695)
BIKE PATH AND UNDERPASS CONSTRUCTION
LAKE COUNTY
C-91-031-07**

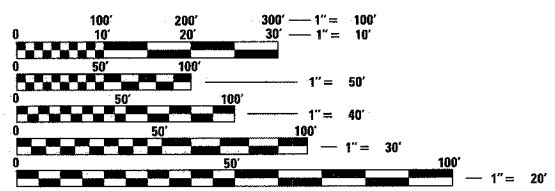


INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET, INDEX OF SHEETS
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5	SCHEDULE OF QUANTITIES
6	ALIGNMENT, TIES & BENCHMARKS
7	STAGE 1 CONSTRUCTION (TEMPORARY BIKE PATH)
8	STAGE 2 CONSTRUCTION (PERMANENT BIKE PATH)
9	STAGE 3 CONSTRUCTION (TEMPORARY BIKE PATH REMOVAL)
10	MONAVILLE ROAD PLAN & PROFILE
11	DETOUR PLAN
12	DETOUR INFORMATION SIGNS
13	EROSION CONTROL PLAN
14-21	UNDERPASS STRUCTURE PLANS
22-24	DETAILS
25-28	STAGE 1 CROSS SECTIONS
29-32	STAGE 2 CROSS SECTIONS
33-36	STAGE 3 CROSS SECTIONS
37-38	MONAVILLE ROAD CROSS SECTIONS

LIST OF STATE STANDARDS

NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542546	FLUSH INLET BOX FOR MEDIAN
601101	CONCRETE HEADWALL FOR PIPE DRAIN
604001-02	FRAME & LIDS, TYPE 1
664001-01	CHAIN LINK FENCE
702001-06	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
728001	TELESCOPING STEEL SIGN SUPPORT
780001-01	TYPICAL PAVEMENT MARKINGS

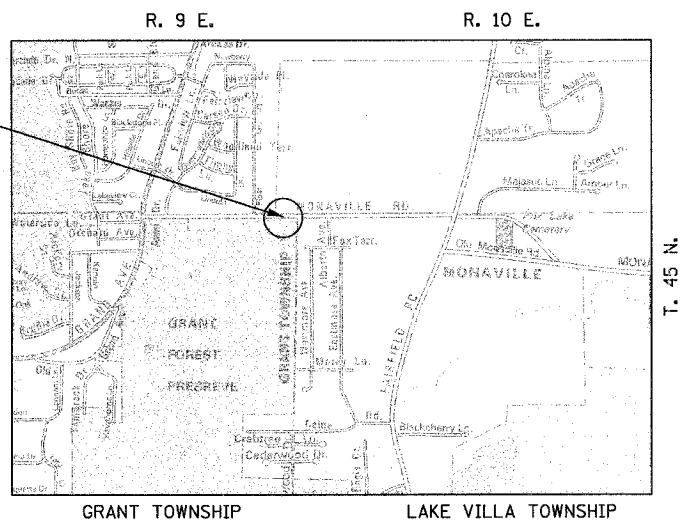


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 83880

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, SHALL GOVERN THIS WORK.



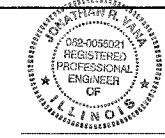
PROJECT LENGTH:
MONAVILLE ROAD - 220 FT. (0.042 MILE)
BIKE PATH - 1,295 FT. (0.245 MILE)

ADT:
MONAVILLE ROAD - 7,100 (2007)

DESIGN SPEEDS:
MONAVILLE ROAD - 45 MPH POSTED SPEED = 35 MPH
BIKE PATH - 20 MPH



REGISTERED S.E., STATE OF ILLINOIS
(COVERS SHEETS 14-21)



REGISTERED P.E., STATE OF ILLINOIS
(NOT INCLUDING SHEETS 14-21)

PLANS PREPARED BY:

CIVILTECH
450 E. Devon Ave., Suite 300 - Itasca, Illinois 60143
Tel: 630.773.3900 - Fax: 630.773.3975
www.civiltechinc.com

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FEDERAL AID ENGINEER: ABIGAIL WILGREEN 847-705-4233 SCHAMBURG, IL
CONSULTANT ENGINEER: JONATHAN VANA, P.E. CIVILTECH ENGINEERING, INC.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	<u>October 9th</u> 20 <u>06</u> <u>Mark A. Buehler</u> COUNTY OF LAKE COUNTY ENGINEER
PASSED	<u>OCTOBER 31</u> 20 <u>06</u> <u>CHOT CHRISTOPHER HOLT</u> DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<u>November 1</u> 20 <u>06</u> <u>Diane O'Keefe/Cat</u> DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	2
GENERAL NOTES				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-90031695				

GENERAL NOTES

GENERAL

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2007.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED AS THE RESIDENT ENGINEER.
- ALL REFERENCES TO STANDARDS IN THE PLAN OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2007; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD)", THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION; THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.
- DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123, LAKE COUNTY, LAKE COUNTY PUBLIC WORKS, AND LAKE VILLA FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- ALL UTILITY COMPANIES, LOCAL POLICE AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 2 DAYS PRIOR TO THE START OF CONSTRUCTION.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL SAW CUT PAVEMENT AS INDICATED ON THE PLANS TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED BY MEANS OF AN APPROVED SAW TO A DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE ITEM BEING REMOVED.
- CARE SHALL BE TAKEN BY THE CONTRACTOR TO NOT DAMAGE THE MATERIALS REMAINING DIRECTLY ADJACENT TO THE MATERIAL TO BE REMOVED. ANY DAMAGE TO THE EXISTING MATERIAL RESULTING FROM THE MATERIAL REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT SOME QUANTITIES ARE GIVEN IN BOTH SUMMARY FORM AND ON THE PLAN SHEETS. CARE SHOULD BE TAKEN TO AVOID DUPLICATION OF QUANTITIES.
- ALL WASTE MATERIAL SHALL BE LEGALLY DISPOSED OF OUTSIDE OF THE LIMITS OF THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOT CROSS COMPLETED SURFACE COURSE, EXISTING PAVEMENT, OR BIKE PATH PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH ANY CONSTRUCTION EQUIPMENT THAT MAY CAUSE DAMAGE TO THE SURFACE COURSE OR PAVEMENT. ANY DAMAGE WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER BY THE CONTRACTOR AT HIS OWN EXPENSE.

EROSION CONTROL

- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL", AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL."
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREA SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR REDISTURBANCE.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- A STABILIZED MAT OR AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THE COST TO COMPLY WITH THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF LAKE COUNTY.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- DURING THE CONSTRUCTION OPERATION WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
- A COPY OF THE APPROVED EROSION CONTROL PLAN SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES.

STORM SEWER, STRUCTURES, AND UTILITIES

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES. THE LOCATION OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR WILL BE REQUIRED TO ASCERTAIN THE EXACT LOCATION OF SUCH UTILITIES AND EXERCISE CARE DURING HIS CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND APPLICABLE ARTICLES INCLUDED IN THE "STANDARD SPECIFICATIONS" INCLUDING, BUT NOT LIMITED TO, 105.07 AND 107.31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING UTILITIES SO THAT THEIR FACILITIES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF THE CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE "STANDARD SPECIFICATIONS."
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. THE ADJUSTMENT OF FRAMES ON ALL NEW STRUCTURES TO THE FINAL ELEVATION SHALL BE INCLUDED IN THE COST OF THE NEW STRUCTURE.
- THE COST OF MAKING SANITARY AND STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED STRUCTURES OR SEWER SHALL BE INCIDENTAL TO THE COST OF THE SANITARY AND STORM SEWER BEING CONNECTED.
- THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE AND SANITARY SEWER STRUCTURES ARE DIMENSIONED TO THE CENTER OF STRUCTURE.
- THE CONTRACTOR SHALL MAINTAIN FLOWS THROUGH EXISTING SEWER SYSTEMS AT ALL TIMES. THE EXISTING STRUCTURES ARE TO BE INSPECTED BEFORE CONSTRUCTION STARTS. ANY ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR STRUCTURES. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET. HE SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM TEMPORARY CONNECTIONS WITH SEWERS WHICH ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIAL NECESSARY FOR DEWATERING TRENCH EXCAVATIONS AS WELL AS SHORING TRENCH WALLS DURING UTILITY OPERATIONS. COMPLIANCE WITH THE ABOVE SHALL BE INCLUDED IN THE UTILITY INSTALLATIONS.
- WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE "STANDARD SPECIFICATIONS" USING METHOD ONE.
- AT LOCATIONS WHERE THE PROPOSED STORM SEWER CROSSES OVER UTILITIES, A 4" STYROFOAM CUSHION SHALL BE PLACED UNDER THE STORM SEWER WHEN DIRECTED TO DO SO BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL EXISTING DRAINAGE FACILITIES, HEADWALLS AND FENCES NO LONGER REQUIRED, IN THE OPINION OF THE ENGINEER, SHALL BE REMOVED. THE COST OF REMOVAL OF EXISTING PIPE CULVERTS, STORM SEWERS, DRAINAGE STRUCTURES, CONCRETE HEADWALLS, FENCING OR OTHER OBSTRUCTIONS WHICH INTERFERE WITH THE PROPOSED IMPROVEMENTS AND WHICH ARE NOT SHOWN TO BE REMOVED AS A SEPARATE PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ANY OF THESE MATERIALS CONSIDERED SUITABLE FOR SALVAGE BY THE ENGINEER SHALL BE STORED WITHIN THE RIGHT-OF-WAY FOR LATER REMOVAL BY THE LAKE COUNTY DIVISION OF TRANSPORTATION. UNUSABLE MATERIALS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. TRENCH BACKFILL AND/OR AGGREGATE BASE COURSE TYPE A WILL BE PAID FOR WHEN THE WORK LIES UNDER EXISTING PAVEMENT AREAS.
- PROPOSED SANITARY SEWERS SHALL CONFORM TO ASTM C76 WITH FLEXIBLE GASKET JOINTS CONFORMING TO ASTM C361 OR C433, UNLESS OTHERWISE SPECIFIED.

TREE REMOVAL, CLEARING, AND HEDGE REMOVAL

- ALL TREES ARE DESIGNATED TO BE SAVED UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL BE PROTECTED IN ACCORDANCE WITH THE PROVISIONS OF ARTICLE 201 OF THE "STANDARD SPECIFICATIONS."
- ALL CLEARING AND REMOVAL OF BUSHES, HEDGES AND TREES UNDER 6" IN DIAMETER SHALL BE INCIDENTAL TO THE COST OF "EARTH EXCAVATION."
- QUANTITIES FOR "TREE PRUNING (1 TO 10 UNITS DIAMETER)" AND "TREE PRUNING (OVER 10 UNITS DIAMETER)" HAVE BEEN INCLUDED FOR TRIMMING TREES ADJACENT TO THE TEMPORARY PATH CONSTRUCTED DURING STAGE 1. THIS WORK SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER.

SIGNING, STRIPING, AND LANDSCAPING

- ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT:
 - SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.
 - ALL SIGNS TO BE RELOCATED SHALL BE DELIVERED TO LAKE COUNTY DOT TO BE REINSTALLED BY THE COUNTY UPON COMPLETION OF THE PROJECT.
 - ALL UNUSED SIGNS SHALL BE RETURNED TO THEIR OWNER (LAKE COUNTY DOT, LAKE COUNTY FOREST PRESERVE DISTRICT, LAKE VILLA)
 - ANY SIGNS WHICH ARE DAMAGED BY THE CONTRACTOR BEYOND REPAIR DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- WHEN DIRECTED BY THE ENGINEER, SUPPLEMENTAL WATERING SHALL BE APPLIED TO ALL SEEDED OR SODDED AREAS PRIOR TO FINAL ACCEPTANCE AT A RATE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS" AND THE SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL ADHERE TO THE LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE OF THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR, SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

UTILITY CONTACTS

COM ED
MR. VARUGHESE SAMUEL
1500 FRANKLIN BOULEVARD
LIBERTYVILLE, IL 60048
847-816-5291
FAX 847-816-5348

NICOR GAS CO.
MS. CONSTANCE LANE
UTILITY CONSULTANT
1844 FERRY ROAD
NAPERVILLE, IL 60563
630-983-8676 EXT. 2362
FAX 630-983-4345

VILLAGE OF LAKE VILLA
MR. GLENN MCCOLLUM
DIRECTOR OF PUBLIC WORKS
65 CEDAR AVENUE
P.O. BOX 519
LAKE VILLA, IL 60046
847-356-6100
FAX 847-356-6217

AT&T LONG DISTANCE AND DATA
MR. CARL DONAHUE, JR.
OUTSIDE PLANT ENGINEERING SUPERVISOR
4962 RED PINE AVE.
GURNEE, IL 60031
847-420-9115
FAX 847-244-9597

COMCAST
MR. NATHAN BURMAN
1575 ROLLING RD
ROLLING MEADOWS, IL 60008
847-725-6831
FAX 847-725-6767

AT&T CORP.
MR. MATT PILKINGTON
1200 N. ARLINGTON HEIGHTS RD
ARLINGTON HEIGHTS, IL 60004
847-506-8705
FAX 847-506-8739

LAKE COUNTY FOREST PRESERVE DISTRICT
MR. RANDY SEEBACH
32492 NORTH ALMOND ROAD
GRAYSLAKE, IL 60030
847-968-3262
FAX 847-680-6304

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONAVILLE ROAD BIKE PATH UNDERPASS

GENERAL NOTES

DESIGNED BY: D.J.K.
CHECKED BY: J.R.V.
DATE: 10/18/06

NOT TO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	3
SUMMARY OF QUANTITIES				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80036953				

ITEM	CODE PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					SFTY-2A	SFTY-1B
1	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	243		243
2	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	32		32
3	20101100	TREE TRUNK PROTECTION	EACH	26		26
4	20101200	TREE ROOT PRUNING	EACH	26		26
5	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	10		10
6	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	10		10
7	20200100	EARTH EXCAVATION	CU YD	20.365		20.365
*	8	20700400 POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	616	616	
9	20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	30		30
10	20800150	TRENCH BACKFILL	CU YD	77		77
11	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	636	636	
12	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	11.161		11.161
13	21300010	EXPLORATION TRENCH, SPECIAL	FOOT	50		50
14	25000200	SEEDING, CLASS 2	ACRE	0.3		0.3
15	25000310	SEEDING, CLASS 4	ACRE	1.5		1.5
16	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	200		200
17	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	200		200
18	25100630	EROSION CONTROL BLANKET	SQ YD	19.422		19.422
19	25200100	SODDING	SQ YD	2.900		2.900
20	25200200	SUPPLEMENTAL WATERING	UNIT	30		30
21	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	231		231
22	28000400	PERIMETER EROSION BARRIER	FOOT	1,370		1,370
23	28100103	STONE RIPRAP, CLASS A2	SQ YD	3		3
24	35100100	AGGREGATE BASE COURSE, TYPE A	TON	525		525
25	40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	981		981
26	40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SQ YD	589		589
27	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	280	117	163
28	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	272		272
29	40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	587		587
30	44000100	PAVEMENT REMOVAL	SQ YD	661		661
* 31	50200100	STRUCTURE EXCAVATION	CU YD	4,165	4,165	
* 32	50300225	CONCRETE STRUCTURES	CU YD	612.6	612.6	
* 33	50300254	RUBBED FINISH	SQ FT	3,776	3,776	
* 34	50300510	RUSTICATION FINISH	SQ FT	3,382	3,382	
* 35	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	101,580	101,580	
* 36	50901760	PIPE HANDRAIL	FOOT	176		176
* 37	51500100	NAME PLATES	EACH	1		1
38	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5		5
39	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	3		3
40	54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	4		4
41	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	98		98
42	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	52		52
43	550A0960	STORM SEWERS, CLASS A, TYPE 4 15"	FOOT	110		110
44	55100500	STORM SEWER REMOVAL 12"	FOOT	43		43
45	55100700	STORM SEWER REMOVAL 15"	FOOT	62		62
* 46	58000100	MEMBRANE WATERPROOFING	SQ FT	2,277	2,277	
* 47	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	410		410
48	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	36		36
* 49	60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	1		1
50	60100905	PIPE DRAINS 4"	FOOT	100		100
51	60100915	PIPE DRAINS 6"	FOOT	115	15	100
* 52	60107700	PIPE UNDERDRAINS 6"	FOOT	345	345	
53	60228120	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3		3
54	60500040	REMOVING MANHOLES	EACH	2		2
55	66400305	CHAIN LINK FENCE, 6'	FOOT	1,380		1,380
56	66403500	CHAIN LINK GATES, 6' X 12' SINGLE	EACH	1		1
57	67100100	MOBILIZATION	L SUM	1		1
58	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1	

		PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					SFTY-2A	SFTY-1B
* 59	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	275	275	
* 60	78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	440	440	
61	Z0001050	AGGREGATE SUBGRADE, 12"	SQ YD	636		636
62	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
63	Z0022800	FENCE REMOVAL	FOOT	1,320		1,320
64	Z0057400	SANITARY SEWER 21"	FOOT	319		319
Δ 65	Z0076600	TRAINEES	HOOR	500		500
66	XX000503	SPLIT RAIL FENCE	FOOT	200		200
67	XX001249	ORNAMENTAL FENCE	FOOT	217		217
68	XX004205	OUTSIDE DROP CONNECTION	EACH	1		1
69	XX006336	AGGREGATE SHOULDERS, TYPE A (SPECIAL)	TON	103	103	
70	XX006522	FURNISH WITNESS POST	EACH	8		8
71	X0321620	SANITARY SEWER REMOVAL 21"	FOOT	86		86
72	X0322118	REMOVE CONCRETE FLARED END SECTION	EACH	4		4
73	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	84		84
74	X0350810	BOLLARD REMOVAL	EACH	2		2
75	X2800105	TEMPORARY DITCH CHECKS, URETHANE FOAM / GEOTEXTILE	EACH	36		36
76	X2800500	INLET PROTECTION, SPECIAL	EACH	9		9
77	X6700405	ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	CAL MO	7		7
78	XX006780	TEMPORARY PIPE CULVERT, 12"	FOOT	24		24
79	XX006781	MAINTAIN EXISTING SANITARY SEWER FLOW	EACH	1		1

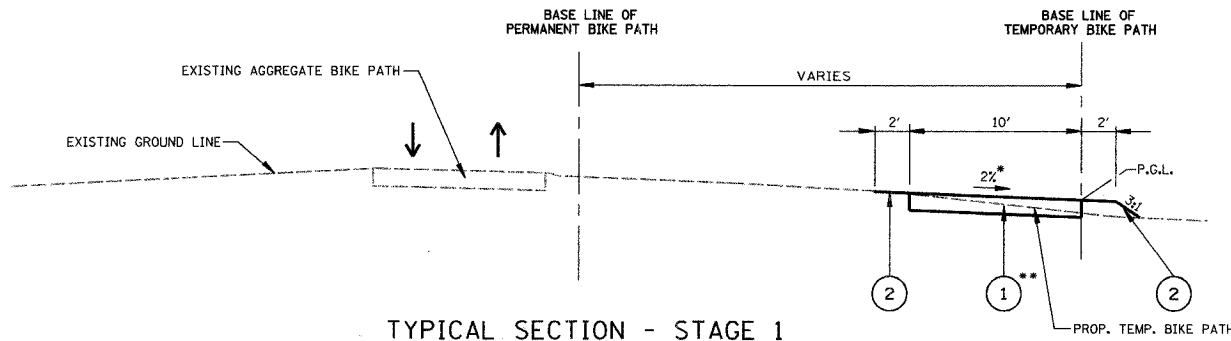
* INDICATES SPECIALTY ITEMS

Δ Y080

REVISIONS	
NAME	DATE

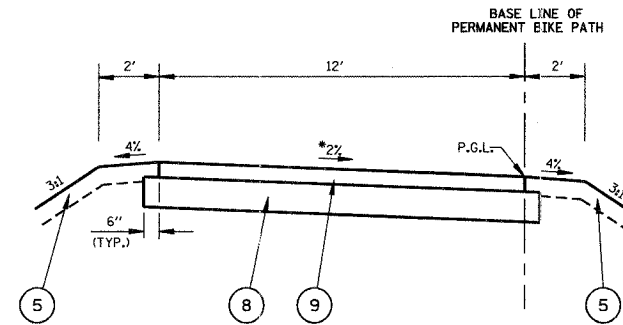
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MONAVILLE ROAD BIKE PATH UNDERPASS
 SUMMARY OF QUANTITIES
 DESIGNED BY: D.J.K.
 CHECKED BY: J.R.V.
 DATE: 10/18/06

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-B1	LAKE	38	4
TYPICAL SECTIONS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				



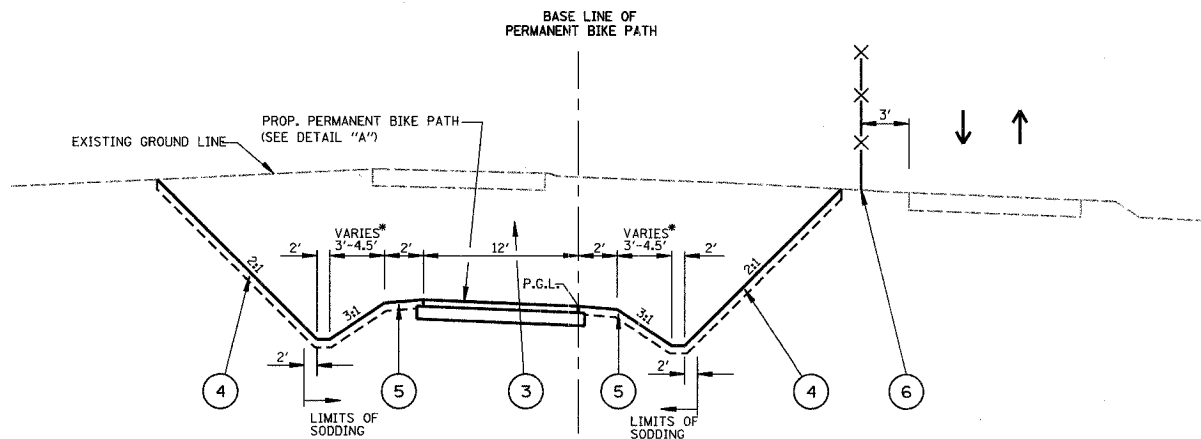
TYPICAL SECTION - STAGE 1

* REVERSE 2% SLOPE FROM STA. 213+50 TO STA. 214+35
TRANSITION CROSS SLOPE FROM STA. 214+35 TO STA. 214+55
** AGGREGATE SURFACE COURSE, TYPE A 6" - STA. 209+86.52 TO STA. 218+89.5
AGGREGATE SURFACE COURSE, TYPE A 8" - STA. 218+89.5 TO STA. 224+26.21



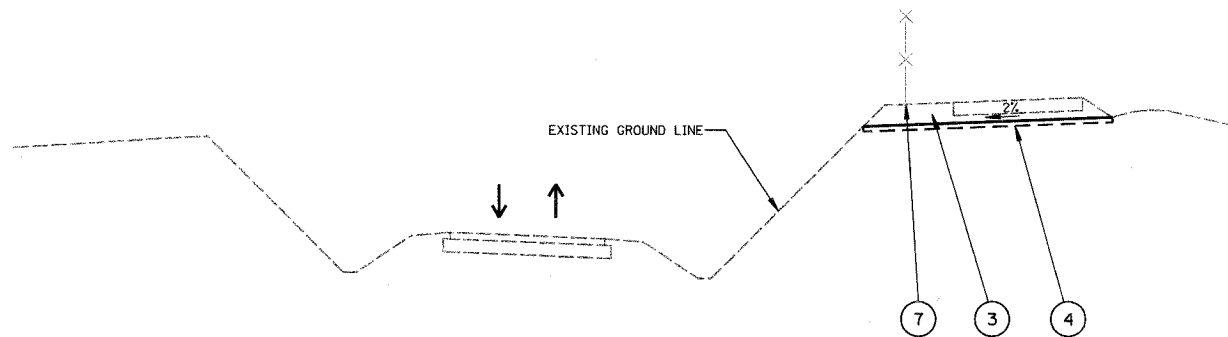
DETAIL "A"
TYPICAL SECTION - PERMANENT BIKE PATH

* REVERSE 2% SLOPE FROM STA. 106+00 TO STA. 112+95
TRANSITION CROSS SLOPE BETWEEN STA. 105+70 AND STA. 106+00



TYPICAL SECTION - STAGE 2

* 4.5' STA. 100+00 TO STA. 109+50
3' STA. 109+50 TO STA. 112+95



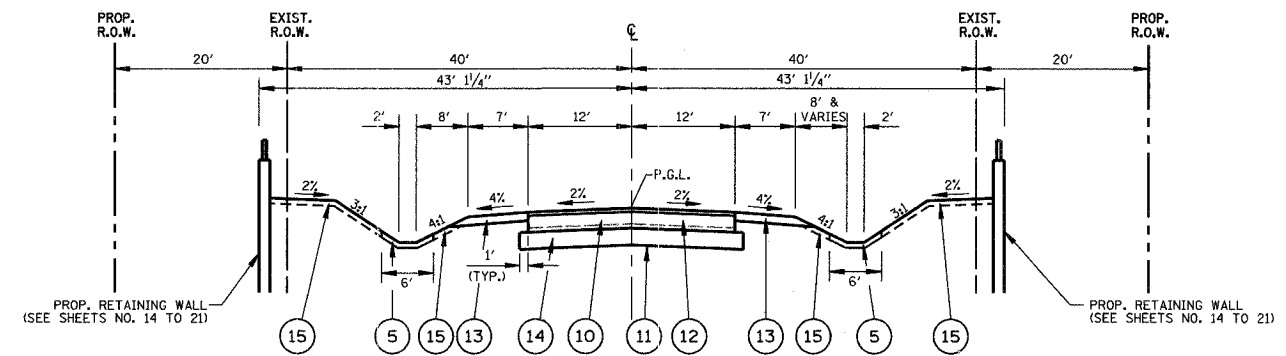
TYPICAL SECTION - STAGE 3

STA. 209+86.52 TO STA. 218+89.5
STA. 223+15 TO STA. 224+26.21
(AGGREGATE PATH REMAINS FROM STA. 218+89.5 TO STA. 223+15)

MIXTURE REQUIREMENT

PAY ITEM	AC TYPE	VOIDS
HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50		

NOTE: THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY-IN.



TYPICAL SECTION - MONAVILLE ROAD

STA. 22+80 TO STA. 25+00

SEE SHEETS NO. 14 TO 21 FOR UNDERPASS STRUCTURE

LEGEND

- 1 AGGREGATE SURFACE COURSE, TYPE A
- 2 TEMPORARY EROSION CONTROL SEEDING EROSION CONTROL BLANKET
- 3 EARTH EXCAVATION
- 4 TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 4
- 5 TOPSOIL FURNISH AND PLACE, 4" SODDING
- 6 CHAIN LINK FENCE, 6'
- 7 FENCE REMOVAL
- 8 AGGREGATE BASE COURSE, TYPE A (6")
- 9 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (3")
- 10 PAVEMENT REMOVAL
- 11 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- 12 *HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"
- 13 AGGREGATE SHOULDERS, TYPE A (SPECIAL) (6" DEPTH)
- 14 AGGREGATE SUBGRADE, 12"
- 15 TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2

P.G.L. PROFILE GRADE LINE

↓ ↑ PATH OPEN TO BIKE TRAFFIC

* 2" - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
10" - HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

ILLINOIS DEPARTMENT OF TRANSPORTATION

MONAVILLE ROAD BIKE PATH UNDERPASS

TYPICAL SECTIONS

REVISIONS	
NAME	DATE

NOT TO SCALE

DESIGNED BY: D.J.K.
CHECKED BY: J.R.V.
DATE: 10/18/06

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	5
SCHEDULE OF QUANTITIES				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80036950				

SCHEDULE OF QUANTITIES

SCHEDULE OF TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION	UNITS
3+82, 9' RT	6
3+85, 5' RT	6
4+11, 6' LT	6
4+08, 21' LT	6+6+6
4+19, 14' LT	6
4+23, 20' LT	6
4+42, 29' LT	6
4+79, 41' LT	6
4+86, 41' LT	6
4+89, 44' LT	6
4+41, 16' RT	6+9
4+57, 4' RT	7
4+61, 3' RT	7
4+67, 8' RT	6
4+61, 41' RT	9
4+70, 29' RT	8
4+84, 26' RT	7+7
4+80, 3' LT	8
4+82, 8' LT	6+6
5+11, 43' RT	8+6
5+26, 49' RT	6
5+36, 49' RT	7
6+29, 50' RT	7
7+11, 24' RT	9
7+19, 23' RT	7
7+13, 37' RT	7
7+03, 48' LT	8
7+50, 46' LT	8
7+38, 39' LT	6
7+23, 27' LT	6

SCHEDULE OF TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION	UNITS
3+97, 4' RT	16
4+29, 22' LT	16

SCHEDULE OF TREE TRUNK PROTECTION

LOCATION
4+65, 43' LT
4+67, 47' LT
4+81, 45' LT
4+87, 52' LT
4+26, 45' RT
4+38, 50' RT
4+52, 42' RT
4+53, 51' RT
4+88, 55' RT
5+00, 56' RT
5+23, 49' RT
5+29, 51' RT
5+34, 60' RT
5+40, 51' RT
5+43, 54' RT
5+44, 59' RT
5+48, 53' RT
6+18, 54' RT
6+29, 60' RT
6+47, 66' RT
6+54, 64' RT
6+57, 62' RT
6+78, 69' RT
7+03, 77' RT
7+10, 69' RT
7+15, 70' RT

SCHEDULE OF EARTHWORK

	EARTH EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (ADJ FOR 15% SHRINKAGE) (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STAGE 1	224	190	157	+33
STAGE 2	19,552	16,594	748	+15,846
STAGE 3	589	500	739	-239
TOTALS	20,365	17,284	1,644	+15,640

SCHEDULE OF PRECAST REINFORCED CONCRETE FLARED END SECTION, 12"

LOCATION
STA. 24+18, 27' LT
STA. 24+46, 28' LT
STA. 103+67.5, 20' LT
STA. 23+44.1, 73.2' LT
STA. 23+73.2, 67.7' LT

SCHEDULE OF PRECAST REINFORCED CONCRETE FLARED END SECTION, 15"

LOCATION
STA. 130+50, 57.5' RT
STA. 103+67.5, 8' RT
STA. 23+46, 64.4' RT

SCHEDULE OF FLUSH INLET BOX FOR MEDIAN, STANDARD 542546

LOCATION
STA. 103+50, 8' RT
STA. 103+50, 20' LT
STA. 23+40.7, 56.2' LT
STA. 23+69.6, 50' LT

SCHEDULE OF STORM SEWERS, CLASS A, TYPE 1 12"

LOCATION	LENGTH	T.B.F.
STA. 24+18, 28' LT TO STA. 24+46, 28' LT	16 FT	1 CU YD
STA. 103+50, 8' RT TO STA. 103+50, 20' LT	25 FT	2 CU YD
STA. 103+50, 20' LT TO STA. 103+67.5, 20' LT	10 FT	0 CU YD
STA. 23+40.7, 56.2' LT TO STA. 23+44.1, 73.2' LT	10 FT	0 CU YD
STA. 23+69.6, 50' LT TO STA. 23+40.7, 56.2' LT	27 FT	1 CU YD
STA. 23+69.6, 50' LT TO STA. 23+73.2, 67.7' LT	10 FT	0 CU YD

SCHEDULE OF STORM SEWERS, CLASS A, TYPE 1 15"

LOCATION	LENGTH	T.B.F.
STA. 103+50, 57.5' RT TO STA. 103+50, 8' RT	42 FT	1 CU YD
STA. 103+50, 8' RT TO STA. 103+67.5, 8' RT	10 FT	0 CU YD

SCHEDULE OF STORM SEWERS, CLASS A, TYPE 4 15"

LOCATION	LENGTH	T.B.F.
STA. 23+46, 64.4' RT TO STA. 23+69.6, 50' LT	110 FT	0 CU YD

SCHEDULE OF STORM SEWER REMOVAL 12"

LOCATION	LENGTH	T.B.F.
STA. 103+78, 45' RT TO STA. 103+63, 4' RT	43 FT	0 CU YD

SCHEDULE OF STORM SEWER REMOVAL 15"

LOCATION	LENGTH	T.B.F.
STA. 107+89, 13' RT TO STA. 107+97, 55' RT	31 FT	0 CU YD
STA. 108+39, 5' RT TO STA. 108+47, 47' RT	31 FT	0 CU YD

SCHEDULE OF MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID

LOCATION
STA. 22+44, 48.6' RT
STA. 24+56, 50.8' LT
STA. 24+56, 48.7' RT

SCHEDULE OF REMOVING MANHOLES

LOCATION
STA. 22+44, 49' RT
STA. 22+40, 50' LT

SCHEDULE OF SANITARY SEWER, 21"

LOCATION	LENGTH	T.B.F.
STA. 22+48, 49' RT TO STA. 22+44, 48.6' RT	17 FT	0 CU YD
STA. 22+44, 48.6' RT TO STA. 24+56, 48.7' RT	191 FT	6 CU YD
STA. 24+56, 48.7' RT TO STA. 24+56, 50.8' LT	95 FT	65 CU YD
STRUCTURE AT STA. 24+56, 50.8' LT	8 FT	0 CU YD
STRUCTURE AT STA. 22+44, 49' RT	8 FT	0 CU YD

SCHEDULE OF SPLIT RAIL FENCE

LOCATION	LENGTH
STA. 22+47, 42' LT TO STA. 22+97, 42' LT	50 FT
STA. 24+06, 42' LT TO STA. 24+26, 42' LT	20 FT
STA. 22+34, 39' RT TO STA. 22+84, 42' RT	50 FT
STA. 23+89, 42' RT TO STA. 24+69, 42' RT	80 FT

SCHEDULE OF OUTSIDE DROP CONNECTION

LOCATION
STA. 24+56, 48.7' RT

SCHEDULE OF SANITARY SEWER REMOVAL 21"

LOCATION	LENGTH	T.B.F.
STA. 23+10 TO STA. 23+80 (UNDERPASS)	70 FT	0 CU YD
STRUCTURE AT STA. 24+56, 50.8' LT	8 FT	0 CU YD
STRUCTURE AT STA. 22+44, 49' RT	8 FT	0 CU YD

SCHEDULE OF REMOVE CONCRETE FLARED END SECTION

LOCATION
STA. 7+89, 13' RT
STA. 7+97, 55' RT
STA. 8+39, 5' RT
STA. 8+47, 47' RT

SCHEDULE OF TEMPORARY CULVERT PIPE, 12"

LOCATION (MONAVILLE ROAD STATIONING)	LENGTH	T.B.F.
STA. 24+10, 24' RT TO STA. 24+34, 24' RT	24 FT	1 CU YD

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MONAVILLE ROAD BIKE PATH UNDERPASS

SCHEDULE OF QUANTITIES

DESIGNED BY: D.J.K.
CHECKED BY: J.R.V.
DATE: 10/18/06

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	6
ALIGNMENT, TIES & BENCHMARKS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-800316950				

CURVE DATA - PERMANENT BIKE PATH BASE LINE

(RIGHT EDGE OF PAVEMENT)

PI #1	CURVE (P-1)	CURVE (P-2)	CURVE (P-3)	PI #5	PI #6	PI #7
STA. 100+59.13 N = 2088298.711 E = 1040887.276	$\Delta = 47^\circ-40'-12''$ D = $9^\circ-32'-57''$ R = 600.00' T = 265.07' L = 499.20' E = 55.94'	$\Delta = 63^\circ-50'-53''$ D = $45^\circ-50'-12''$ R = 125.00' T = 77.88' L = 139.30' E = 22.28'	$\Delta = 27^\circ-06'-56''$ D = $28^\circ-38'-52''$ R = 200.00' T = 48.23' L = 94.65' E = 5.73'	STA. 112+20.06 N = 2089176.204 E = 1041366.924	STA. 112+58.20 N = 2089213.551 E = 1041359.208	STA. 112+71.76 N = 2089227.028 E = 1041357.671
	P.C. = 100+63.83 N = 2088302.895 E = 1040889.425 P.I. = 103+28.90 N = 2088538.688 E = 1041010.516 P.T. = 105+63.03 N = 2088607.952 E = 1041266.375	P.C. = 106+08.84 N = 2088619.924 E = 1041310.597 P.I. = 106+86.72 N = 2088640.274 E = 1041385.770 P.T. = 107+48.14 N = 2088716.720 E = 1041400.636	P.C. = 109+08.60 N = 2088874.234 E = 1041431.266 P.I. = 109+56.83 N = 2088921.576 E = 1041440.472 P.T. = 110+03.25 N = 2088967.911 E = 1041427.088			

BENCHMARKS

BM #1
LCBM DESIGNATION 2-35A
STEEL RAILROAD SPIKE IN THE EAST FACE
OF A WOOD UTILITY POLE LOCATED IN THE NORTHWESTERLY
INTERSECTION OF MONAVILLE ROAD AND FAIRFIELD ROAD
ELEVATION = 799.09

CONTROL POINTS

MONUMENT IN ROADWAY
STA. 102+90.46, 23.79' RT
NORTHING = 2088462.508
EASTING = 1041043.793
ELEVATION = 769.88

MONUMENT IN ROADWAY
STA. 107+92.24, 45.27' RT
NORTHING = 2088751.365
EASTING = 1041453.493
ELEVATION = 795.00

CF #1 - IRON ROD
STA. 102+90.46, 23.79' RT
NORTHING = 2088462.508
EASTING = 1041043.793
ELEVATION = 769.88

CF #2 - IRON ROD
STA. 105+07.03, 23.47' LT
NORTHING = 2088612.800
EASTING = 1041204.861
ELEVATION = 784.54

CF #3 - IRON ROD
STA. 106+35.23, 33.57' LT
NORTHING = 2088659.290
EASTING = 1041319.786
ELEVATION = 790.77

CF #4 - IRON ROD
STA. 107+92.24, 45.27' RT
NORTHING = 2088751.365
EASTING = 1041453.493
ELEVATION = 795.00

CF #5 - IRON ROD
STA. 109+22.61, 15.75' RT
NORTHING = 2088861.54
EASTING = 1041449.091
ELEVATION = 797.57

STATIONING BASED ON PROPOSED
BIKE PATH ALIGNMENT

BEGINNING OF PERMANENT PATH
STATION = 100+00.00
NORTHING = 2088243.106
EASTING = 1040861.114

BEGINNING OF PERMANENT PATH
STATION = 209+86.52
NORTHING = 2088220.338
EASTING = 1040876.138

MONAVILLE ROAD ALIGNMENT

STA. 22+00.00, 0' O/S STA. 26+00.00, 0' O/S
N = 2088766.568 N = 2088780.461
E = 1041261.567 E = 1041661.548

CURVE DATA - TEMPORARY BIKE PATH BASE LINE

(RIGHT EDGE OF PAVEMENT)

CURVE (T-1)	CURVE (T-2)	CURVE (T-3)	CURVE (T-4)	CURVE (T-5)	CURVE (T-6)	CURVE (T-7)	CURVE (T-8)	CURVE (T-9)
$\Delta = 14^\circ-28'-20''$ D = $28^\circ-38'-52''$ R = 200.00' T = 25.39' L = 50.62' E = 1.61'	$\Delta = 15^\circ-28'-59''$ D = $8^\circ-48'-53''$ R = 650.00' T = 88.36' L = 175.65' E = 5.98'	$\Delta = 25^\circ-16'-45''$ D = $19^\circ-45'-26''$ R = 290.00' T = 65.03' L = 127.95' E = 7.20'	$\Delta = 63^\circ-30'-00''$ D = $19^\circ-28'-52''$ R = 235.00' T = 145.42' L = 260.45' E = 41.36'	$\Delta = 19^\circ-05'-26''$ D = $18^\circ-28'-57''$ R = 310.00' T = 52.13' L = 103.29' E = 4.35'	$\Delta = 14^\circ-48'-49''$ D = $26^\circ-38'-57''$ R = 215.00' T = 27.95' L = 55.59' E = 1.81'	$\Delta = 7^\circ-34'-40''$ D = $19^\circ-45'-26''$ R = 290.00' T = 19.21' L = 38.35' E = 0.64'	$\Delta = 6^\circ-51'-53''$ D = $42^\circ-26'-29''$ R = 135.00' T = 8.10' L = 16.17' E = 0.24'	$\Delta = 19^\circ-46'-27''$ D = $57^\circ-17'-45''$ R = 100.00' T = 17.43' L = 34.51' E = 1.51'
P.C. = 210+13.44 N = 2088246.151 E = 1040885.289 P.I. = 210+38.33 N = 2088270.032 E = 1040893.922 P.T. = 210+63.95 N = 2088290.998 E = 1040908.250	P.C. = 211+30.11 N = 2088345.621 E = 1040945.577 P.I. = 212+18.48 N = 2088418.577 E = 1040995.433 P.C.C. = 213+05.76 N = 2088475.576 E = 1041062.955	P.C.C. = 213+05.76 N = 2088475.576 E = 1041062.955 P.I. = 213+70.80 N = 2088517.525 E = 104112.649 P.T. = 214+33.71 N = 2088534.237 E = 1041175.498	P.C. = 215+82.72 N = 2088572.530 E = 1041319.506 P.I. = 217+28.15 N = 2088609.900 E = 1041460.045 P.T. = 218+43.17 N = 2088752.348 E = 1041489.309	P.C. = 218+66.10 N = 2088774.811 E = 1041493.924 P.I. = 219+18.23 N = 2088825.873 E = 1041504.414 P.T. = 219+69.39 N = 2088877.558 E = 1041497.627	P.C. = 220+01.98 N = 2088909.863 E = 1041493.384 P.I. = 220+29.93 N = 2088937.574 E = 1041396.737 P.T. = 220+57.56 N = 2088963.434 E = 1041479.142	P.C. = 222+55.57 N = 2089146.639 E = 1041404.023 P.I. = 222+74.78 N = 2089164.409 E = 1041387.596 P.T. = 222+93.93 N = 2089182.984 E = 1041391.858	P.C. = 223+02.61 N = 2089191.380 E = 1041389.653 P.I. = 223+10.70 N = 2089199.211 E = 1041387.596 P.T. = 223+18.78 N = 2089206.740 E = 1041384.618	P.C. = 223+91.70 N = 2089274.546 E = 1041351.385 P.I. = 224+09.13 N = 2089290.753 E = 1041351.385 P.T. = 224+26.21 N = 2089308.174 E = 1041350.835

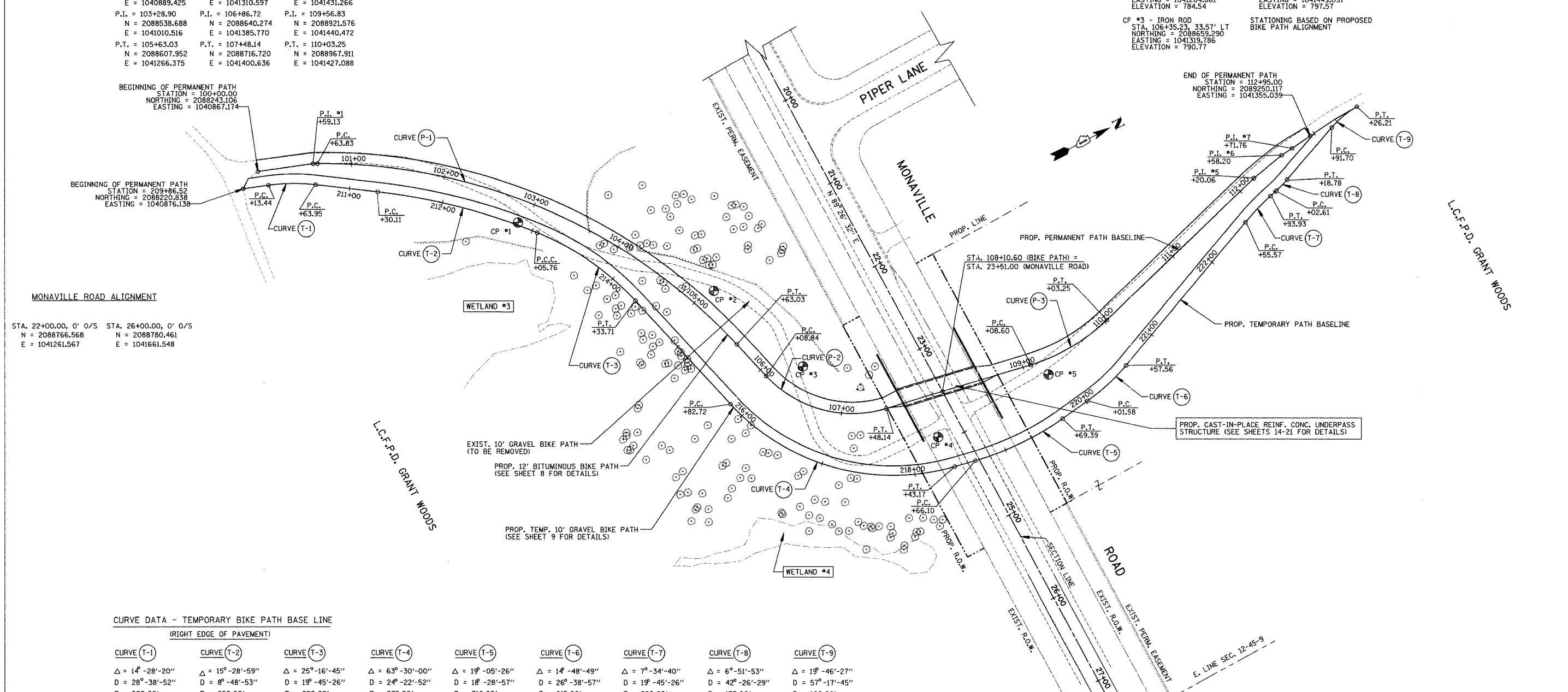
ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION

MONAVILLE ROAD BIKE PATH UNDERPASS
ALIGNMENT, TIES & BENCHMARKS

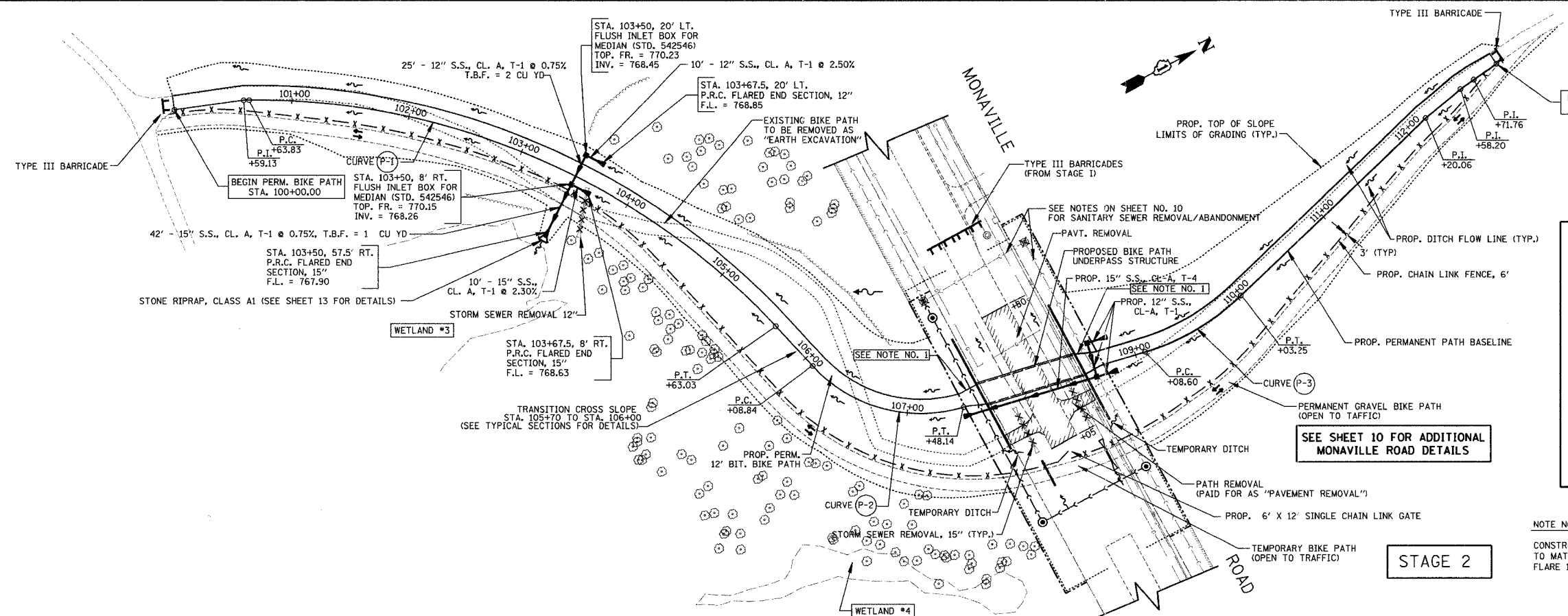
DESIGNED BY: D.J.K.
CHECKED BY: J.R.V.
DATE: 10/18/06

REVISIONS	
NAME	DATE



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	8

STAGE 2 CONSTRUCTION (PERMANENT BIKE PATH)
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-9003695



- STAGE 2 CONSTRUCTION SEQUENCE**
1. ERECT TEMPORARY 6' CHAIN LINK FENCE.
 2. BARRICADE ENDS OF EXISTING BIKE PATH & OPEN TEMPORARY PATH TO TRAFFIC.
 3. INSTALL STORM SEWERS & REMOVE CULVERT IN VICINITY OF STA. 103+50.
 4. REMOVE MONVILLE ROAD PAVEMENT FROM STA. 22+80 TO 24+05 & EXISTING PIPE CULVERTS.
 5. EXCAVATE FOR PERMANENT BIKE PATH SOUTH OF MONVILLE ROAD.
 6. INSTALL STORM SEWERS IN VICINITY OF MONVILLE ROAD.
 7. CONSTRUCT PERMANENT BIKE PATH AND UNDERPASS STRUCTURE AT MONVILLE ROAD.

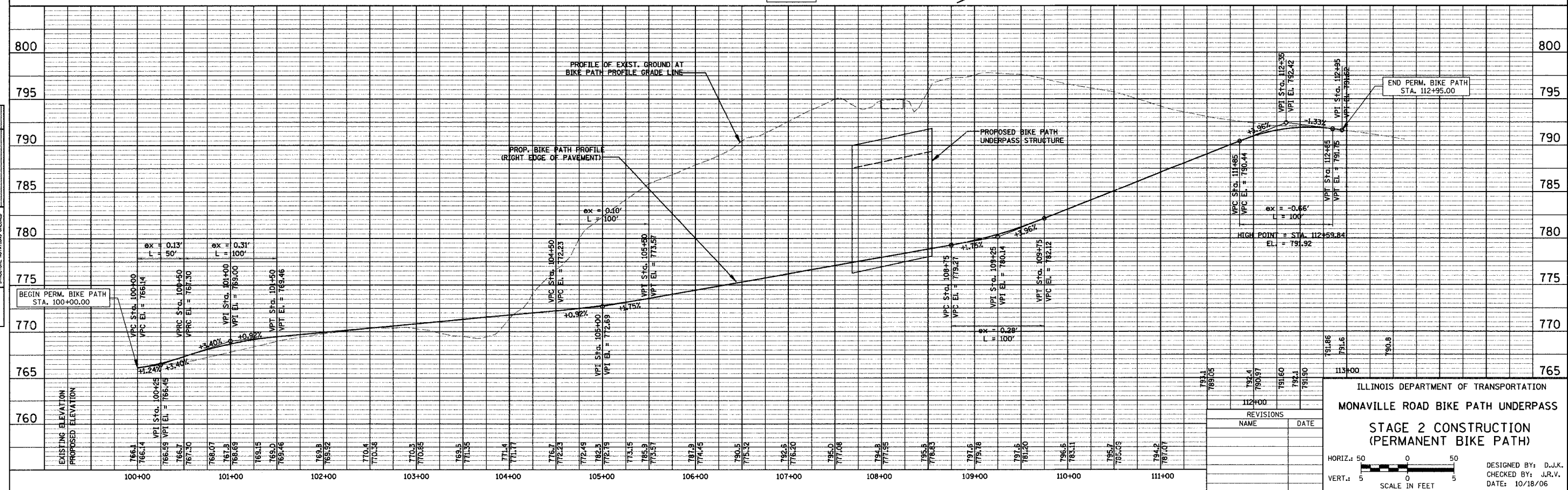
NOTE NO. 1
 CONSTRUCT 3 FT FLARE ON BOTH SIDES OF THE PATH TO MATCH WIDTH OF UNDERPASS STRUCTURE. BEGIN FLARE 15 FT FROM THE FACE OF THE UNDERPASS.

SEE SHEET 10 FOR ADDITIONAL MONVILLE ROAD DETAILS

STAGE 2

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



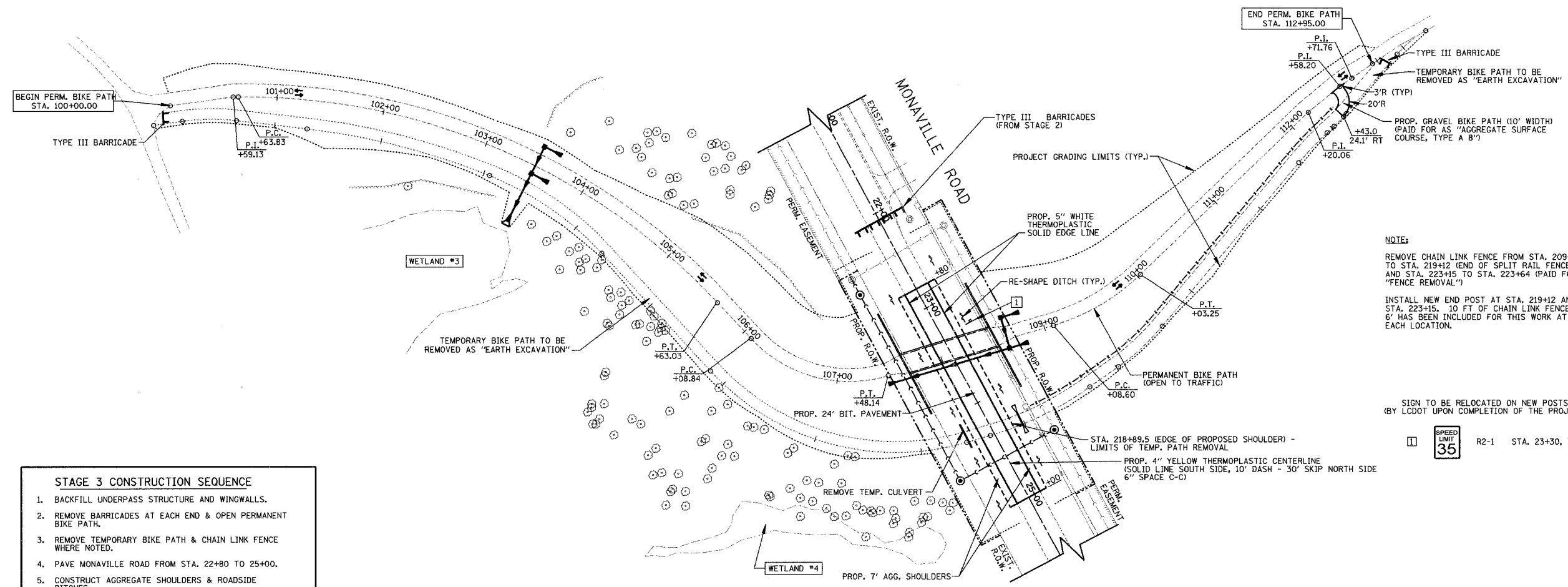
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MONVILLE ROAD BIKE PATH UNDERPASS
STAGE 2 CONSTRUCTION (PERMANENT BIKE PATH)

HORIZ.: 50 0 50
 VERT.: 5 0 5
 SCALE IN FEET

DESIGNED BY: D.J.K.
 CHECKED BY: J.R.V.
 DATE: 10/18/06

F.A.U. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	9
STAGE 3 CONSTRUCTION (TEMP. BIKE PATH REM.)				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				



NOTE:
 REMOVE CHAIN LINK FENCE FROM STA. 209+99 TO STA. 219+12 (END OF SPLIT RAIL FENCE) AND STA. 223+15 TO STA. 223+64 (PAID FOR AS "FENCE REMOVAL")
 INSTALL NEW END POST AT STA. 219+12 AND STA. 223+15. 10 FT OF CHAIN LINK FENCE, 6' HAS BEEN INCLUDED FOR THIS WORK AT EACH LOCATION.

SIGN TO BE RELOCATED ON NEW POSTS (BY LCDOT UPON COMPLETION OF THE PROJECT)

1 [SPEED LIMIT 35] R2-1 STA. 23+30, 30' LT

- STAGE 3 CONSTRUCTION SEQUENCE**
1. BACKFILL UNDERPASS STRUCTURE AND WINGWALLS.
 2. REMOVE BARRICADES AT EACH END & OPEN PERMANENT BIKE PATH.
 3. REMOVE TEMPORARY BIKE PATH & CHAIN LINK FENCE WHERE NOTED.
 4. PAVE MONVILLE ROAD FROM STA. 22+80 TO 25+00.
 5. CONSTRUCT AGGREGATE SHOULDERS & ROADSIDE DITCHES.
 6. PLACE PAVEMENT MARKINGS, REMOVE BARRICADES & DETOUR SIGNING & RE-OPEN MONVILLE ROAD TO TRAFFIC.
 7. COMPLETE TOPSOIL PLACEMENT, SEEDING, LANDSCAPING & CLEAN-UP.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONVILLE ROAD BIKE PATH UNDERPASS
STAGE 3 CONSTRUCTION
(TEMPORARY BIKE PATH REMOVAL)

DESIGNED BY: D.J.K.
 CHECKED BY: J.R.V.
 DATE: 10/18/06

50 0 50
 SCALE IN FEET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	10
MONAVILLE ROAD PLAN & PROFILE				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

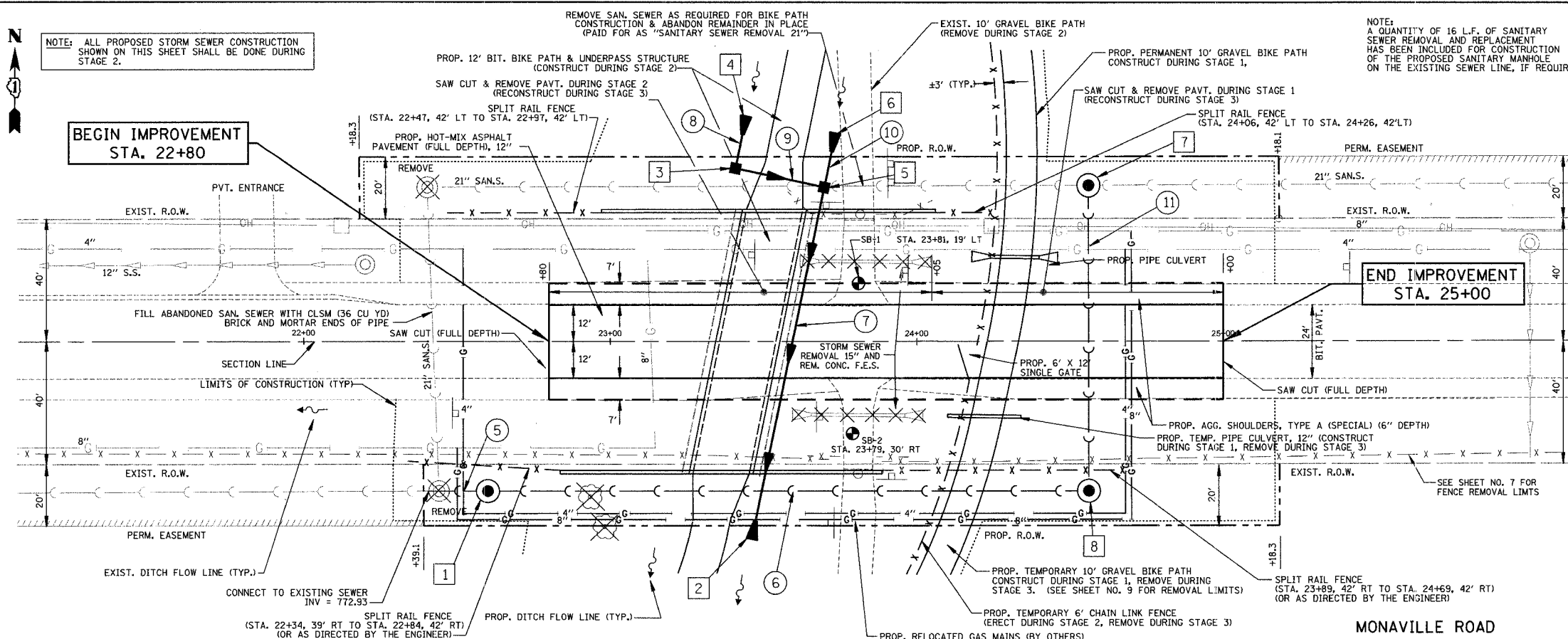
STRUCTURES

1 STA. 22+44, 48.6' RT. M.H., SANITARY, 5'-DIA., W/ TYPE 1 FR. & CL. TOP FR. = 796.25 INV. (E&W) = 772.99	2 STA. 23+46, 64.4' RT. P.R.C. FLARED END SECTION, 15" F.L. = 775.10	3 STA. 23+40.7, 56.2' LT. FLUSH INLET BOX FOR MEDIAN STANDARD 542546 TOP FR. = 778.75 INV. = 777.23
4 STA. 23+44.1, 73.2' LT. P.R.C. FLARED END SECTION, 12" F.L. = 777.31	5 STA. 23+69.6, 50' LT. FLUSH INLET BOX FOR MEDIAN STANDARD 542546 TOP FR. = 779.00 INV. = 777.03	6 STA. 23+73.2, 67.7' LT. P.R.C. FLARED END SECTION, 12" F.L. = 777.21

NOTE: STATIONING BASED OFF OF MONAVILLE ROAD

PIPES

5 17' - 21" SANITARY SEWER @ 0.375%	8 10' - 12" S.S., CL. A, T-1 @ 0.50%
6 191' - 21" SANITARY SEWER @ 0.375% T.B.F. = 6 CU YD	9 27' - 12" S.S., CL. A, T-1 @ 0.75% T.B.F. = 1 CU YD
7 110' - 15" S.S., CL.A, T-4 @ 1.75%	10 10' - 12" S.S., CL. A, T-1 @ 1.75%
	11 95' - 21" SANITARY SEWER @ 0.375% T.B.F. = 65 CU YD



NOTE: ALL PROPOSED STORM SEWER CONSTRUCTION SHOWN ON THIS SHEET SHALL BE DONE DURING STAGE 2.

NOTE: A QUANTITY OF 16 L.F. OF SANITARY SEWER REMOVAL AND REPLACEMENT HAS BEEN INCLUDED FOR CONSTRUCTION OF THE PROPOSED SANITARY MANHOLE ON THE EXISTING SEWER LINE, IF REQUIRED.

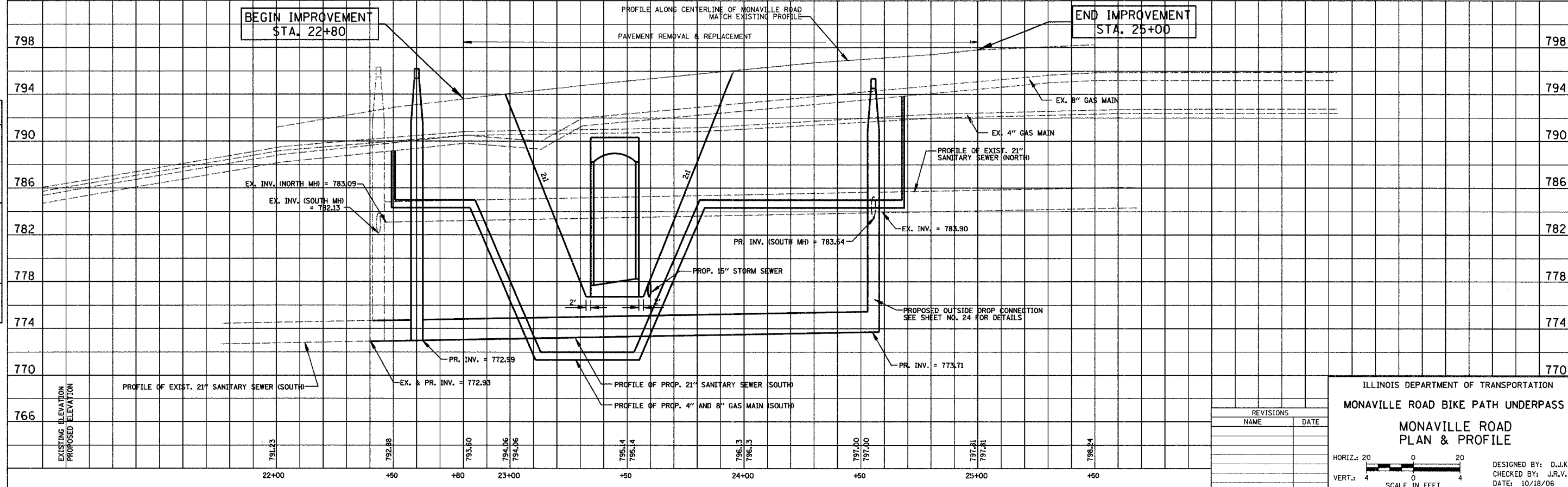
BEGIN IMPROVEMENT STA. 22+80

END IMPROVEMENT STA. 25+00

MONAVILLE ROAD

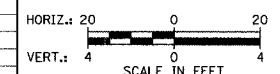
BEGIN IMPROVEMENT STA. 22+80

END IMPROVEMENT STA. 25+00



ILLINOIS DEPARTMENT OF TRANSPORTATION
MONAVILLE ROAD BIKE PATH UNDERPASS

MONAVILLE ROAD PLAN & PROFILE



DESIGNED BY: D.J.K.
CHECKED BY: J.R.V.
DATE: 10/18/06

REVISIONS	
NAME	DATE

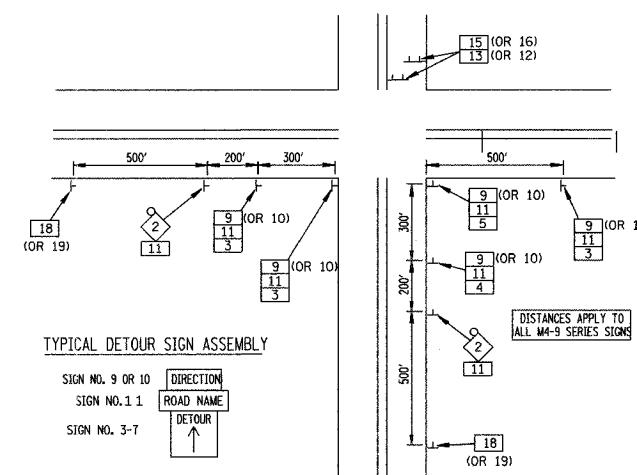
LEGEND

- SIGNALIZED INTERSECTION
- 48" X 48" CONSTRUCTION WARNING SIGN WITH AMBER FLASHING LIGHT (NUMBER DENOTES TYPE)
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME & DIRECTION PLATES (NUMBER DENOTES TYPE)
- OTHER DETOUR SIGN (NUMBER DENOTES TYPE)
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
- DETOUR ROUTE

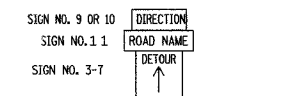
SCHEDULE OF SIGNS

SIGN NO.	SIGN TYPE	QUANTITY
1	ROAD CLOSED 500 FT	2
2	DETOUR 500 FT	7
3	DETOUR	16
4	DETOUR	5
5	DETOUR	5
6	DETOUR	3
7	DETOUR	3
8	END DETOUR	2
9	EAST	13
10	WEST	19
11	Monoville Rd	SPECIAL(O)-VAR/9
12	DETOUR	M4-10L(O)-4818
13	DETOUR	M4-10R(O)-4818
14	ROAD CLOSED	R11-2-4830
15	ROAD CLOSED 0.5 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3-6030
16	ROAD CLOSED 1/3 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3-6030
17		R3-2-2424
18	EASTBOUND MONAVILLE RD CLOSED TO THRU TRAFFIC USE ILL. RTE 132	SPECIAL(O)-6030
19	WESTBOUND MONAVILLE RD CLOSED TO THRU TRAFFIC USE ILL. RTE 132	SPECIAL(O)-6030
20	ROAD CLOSED 1500 FT	W20-3(O)-48
21	ROAD CLOSED 1000 FT	W20-3(O)-48
22	GOLF COURSE OPEN DURING CONSTRUCTION	SPECIAL(O)-4830

TYPICAL INTERSECTION AT POINT OF DETOUR

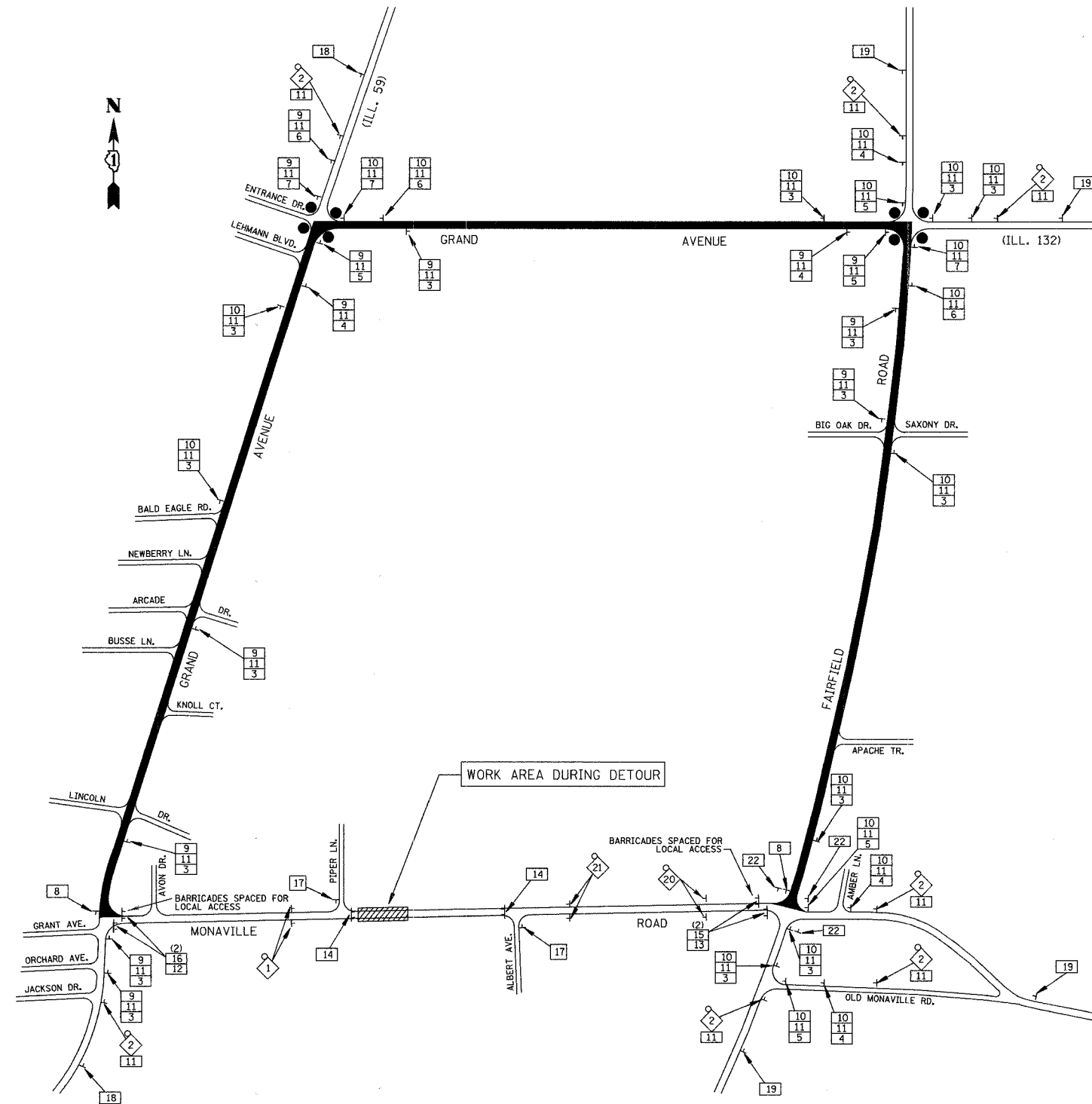


TYPICAL DETOUR SIGN ASSEMBLY



SPECIAL DETOUR NOTES:

1. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE DETOUR GENERAL NOTES ON SHEET 12.
2. SEE SHEET 12 FOR INFORMATION ON THE DESIGN AND LOCATION OF THE DETOUR INFORMATION SIGNS.
3. FOURTEEN (14) TYPE III BARRICADES WILL BE NEEDED FOR THIS DETOUR AND ROAD CLOSURE (SEE DETOUR GENERAL NOTE NO. 17). ADDITIONAL TYPE III BARRICADES ARE REQUIRED FOR PATH CLOSURES (SEE SHEETS NO. 7-9).
4. BEFORE AND AFTER THE DETOUR IS IN EFFECT, TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL DETAILS SHOWN ON SHEET NO. 23.
5. THE ROAD CLOSURE AND DETOUR SHALL NOT BEGIN BEFORE JUNE 19, 2007.



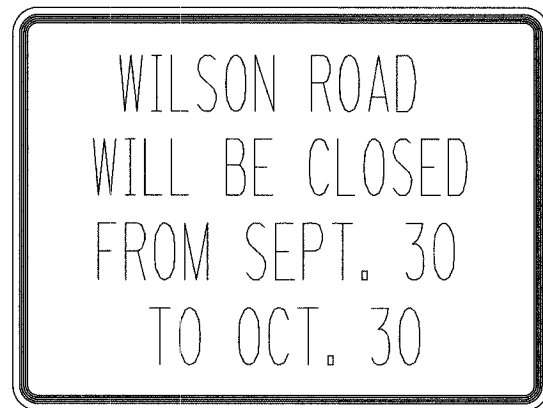
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MONAVILLE ROAD BIKE PATH UNDERPASS
 DETOUR PLAN
 NOT TO SCALE
 DESIGNED BY: D.J.K.
 CHECKED BY: J.R.V.
 DATE: 10/18/06

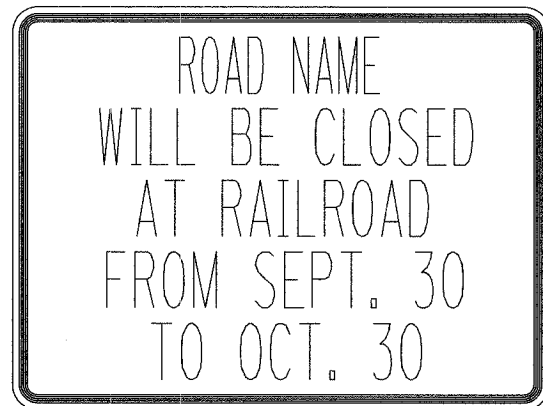
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	12
DETOUR INFORMATION SIGNS				
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT HD-80036959	

DETOUR INFORMATION SIGNS

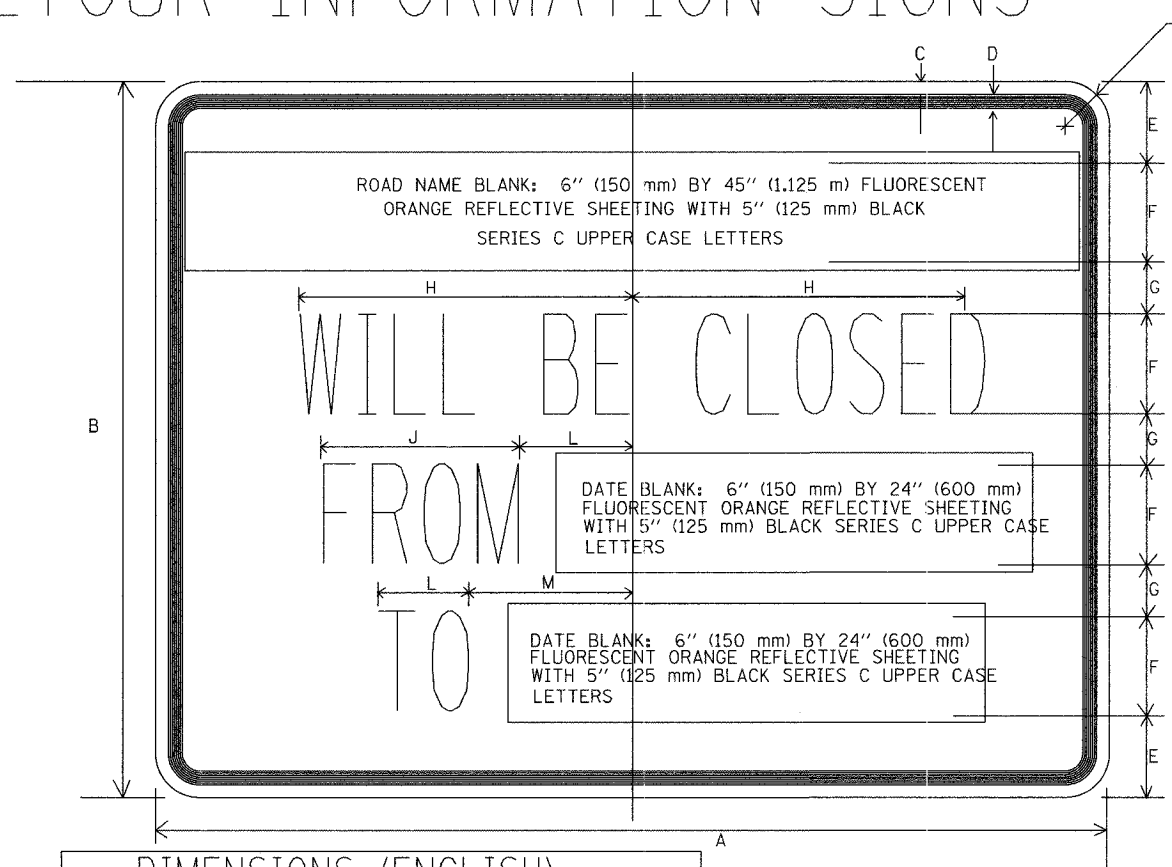
NUMBER OF SIGNS 7



DATE SHOWN IS FOR EXAMPLE ONLY



NUMBER OF SIGNS _____



DIMENSIONS (ENGLISH)													
	A	B	C	D	E	F	G	H	J	K	L	M	N
STD.	48	36	5/8	7/8	4 1/8	5	2 5/8	9 3/4	12	5 1/2	5 1/2	8 1/2	2 1/4
DIMENSIONS (S.I.)													
	A	B	C	D	E	F	G	H	J	K	L	M	N
STD.	1.2 m	900 mm	12 mm	19 mm	103 mm	125 mm	66 mm	325 mm	138 mm	138 mm	219 mm	56 mm	

NOTE: SIGN SHEETING SHALL BE FLUORESCENT ORANGE WITH 5 INCH (125 mm) BLACK SERIES C LETTERS.

NOTE: THESE SIGNS SHALL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING" WHICH PRICE SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, AND REMOVING THE SIGNS. ALSO INCLUDED ARE ALL HARDWARE, POSTS OR SKIDS, SUPPORTS, BASES, OR CONNECTIONS REQUIRED.

NOTE: THESE SIGNS SHALL BE INSTALLED 7-10 CALENDAR DAYS PRIOR TO THE DETOUR AND ROAD CLOSURE. THE SIGNS SHALL BE REMOVED THE DAY THE DETOUR BEGINS

LOCATIONS OF PRE-DETOUR INFORMATION SIGNS BY INTERSECTION

- S.B. GRAND AVENUE (IL ROUTE 59) APPROACHING MONAVILLE ROAD
- N.B. GRAND AVENUE (IL ROUTE 59) APPROACHING MONAVILLE ROAD
- N.B. FAIRFIELD ROAD APPROACHING MONAVILLE ROAD
- S.B. FAIRFIELD ROAD APPROACHING MONAVILLE ROAD
- W.B. MONAVILLE ROAD APPROACHING FAIRFIELD ROAD
- E.B. MONAVILLE ROAD, EAST OF GRAND AVENUE (IL ROUTE 59)
- W.B. MONAVILLE ROAD, WEST OF FAIRFIELD ROAD

DETOUR GENERAL NOTES

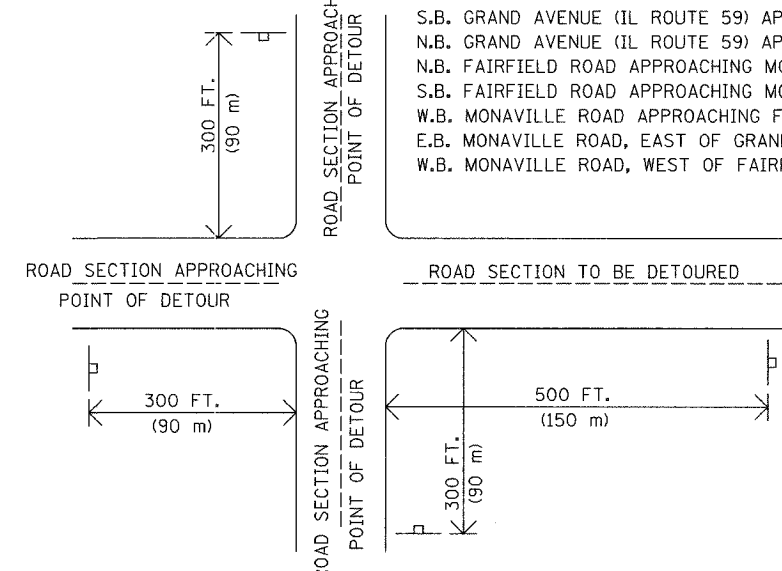
- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DEVICES ADOPTED JAN. 1, 2007", THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2004, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION ILC-7-100 NOS. 1 AND 2) AND THE L.C.D.O.T. DETOUR PROCEDURES AND GUIDELINES.
- THE DURATION OF THIS DETOUR SHALL NOT EXCEED 90 CALENDAR DAYS. THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR NEEDS TO BE IN EFFECT.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
- IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
- THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING PRIOR TO THE START OF THE WORK. THE LAKE COUNTY DIVISION OF TRANSPORTATION REPRESENTATIVE FOR THIS DETOUR IS:

JOHN P. SAUTER
LAKE COUNTY DIVISION OF TRANSPORTATION
TRAFFIC ENGINEERING SECTION
600 W. WINCHESTER ROAD
LIBERTYVILLE, ILLINOIS 60048
(847)-362-3950
- IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.
- LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
- THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION"
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
- ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.
- ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
- THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
- WHEN REQUIRED THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THESE PLANS ARE 18" X 18" (450 mm X 450 mm).
- ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8 FEET (2.4 m) IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
- THE "ROAD CLOSED" (R11-2), THE "ROAD CLOSED" XX MILES AHEAD LOCAL TRAFFIC ONLY" (R11-3) AND THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.

- THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" (225 mm) X VARIABLE OR A 12" (300 mm) X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" (150 mm) WITH 5" (125 mm) LOWER CASE.
- DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
- THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD IS APPLICABLE FOR THIS WORK:

STANDARD 702001
- THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
- THE PENALTY FOR EXCEEDING THE TIME LIMIT, AS STATED IN DETOUR GENERAL NOTE TWO OF THESE PLANS, SHALL EQUAL THE CHARGE SHOWN IN THE SCHEDULE OF LIQUIDATED DAMAGES IN ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS, FOR EVERY CALENDAR DAY THE DETOUR AND ROAD CLOSURE EXCEEDS THE TIME LIMIT SET IN DETOUR GENERAL NOTE TWO. THIS PENALTY CAN BE ASSESSED IN ADDITION TO THE PENALTY SPECIFIED IN THE BDE SPECIAL PROVISION FOR TRAFFIC CONTROL DEFICIENCY DEDUCTION AND BOTH PENALTIES CAN BE CHARGED CONCURRENTLY.
- THE ROAD CLOSURE AND DETOUR SHALL NOT BEGIN BEFORE JUNE 19, 2007.



TYPICAL SIGN LAYOUT FOR PRE-DETOUR INFORMATION SIGNS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONAVILLE ROAD BIKE PATH UNDERPASS
DETOUR INFORMATION SIGNS

DESIGNED BY: D.J.K.
CHECKED BY: J.R.V.
DATE: 10/18/06

NOT TO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	13
EROSION CONTROL PLAN				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

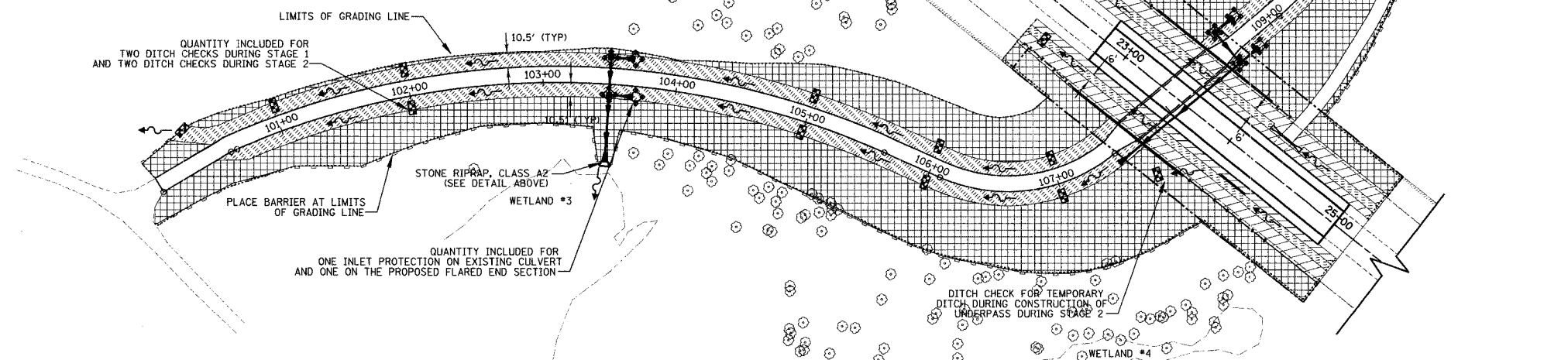
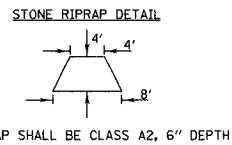
EROSION CONTROL PLAN & STORMWATER POLLUTION PREVENTION PLAN

THIS PROJECT DISTURBS 3.0 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT WILL BE REQUIRED FOR THIS PROJECT.

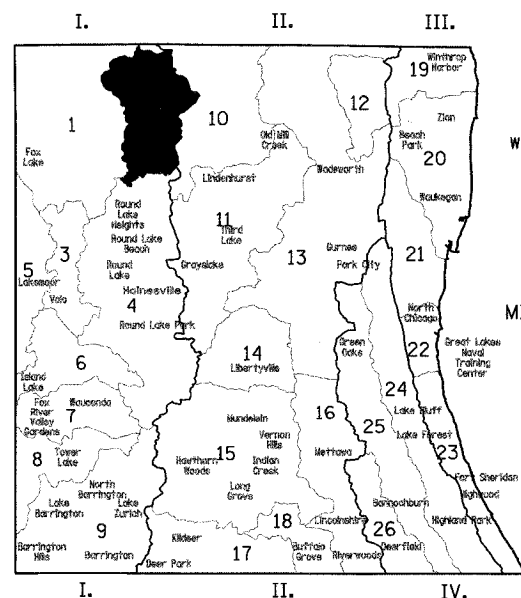
GRADING LIMITS

STATION	LEFT OFFSET	RIGHT OFFSET
100+50	30.0	20.0
101+00	26.0	28.0
101+50	25.0	43.0
102+00	25.0	36.0
102+50	24.0	30.0
103+00	23.0	30.5
103+50	27.0	61.5
104+00	23.0	36.5
104+50	32.0	40.5
105+00	45.0	49.0
105+50	45.0	52.5
106+00	54.5	54.0
106+50	55.5	54.0
107+00	59.5	68.0
107+50	-	78.0
109+00	60.0	76.0
109+50	53.5	60.0
110+00	47.5	50.0
110+50	41.0	48.0
111+00	35.0	40.0
111+50	28.5	35.0
112+00	23.5	30.0
112+50	22.0	26.0
113+00	16.0	13.5
113+50	-	3.0

THE GRADING LIMITS ON MONAVILLE ROAD ARE THE PROPOSED RIGHT-OF-WAY LINES.



DRAINAGE BASINS OF LAKE COUNTY



- I. FOX RIVER WATERSHED
 - 1. Upper Fox River
 - 2. Squall Creek
 - 3. Fish Lake Drain
 - 4. Squaw Creek
 - 5. Lower Fox River
 - 6. Mutton Creek
 - 7. Sloom Lake Drain
 - 8. Tower Lake Drain
 - 9. Flint Creek
- II. DES PLAINES RIVER WATERSHED
 - 10. North Mill Creek
 - 11. Mill Creek
 - 12. Newport Drainage Ditch
 - 13. Upper Des Plaines River
 - 14. Bull Creek
 - 15. Indian Creek
 - 16. Lower Des Plaines River
 - 17. Buffalo Creek
 - 18. Aptakela Creek
- III. LAKE MICHIGAN WATERSHED
 - 19. Kellogg Creek
 - 20. Dead River
 - 21. Waukegan River
 - 22. Pettibone Creek
 - 23. Bluff/Ravine
- IV. CHICAGO RIVER WATERSHED
 - 24. Skokie River
 - 25. Middle Fork
 - 26. West Fork

GENERAL NOTES FOR SOIL EROSION CONTROL

- 1.) PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS. AT 2 FEET OUTSIDE THE TOE OF SLOPE, OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION.
 - 2.) THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE FENCE INSTALLATION RESTORED.
 - 3.) THE FENCE INSTALLATION, MAINTENANCE, REMOVAL AND THE RESTORATION OF THE AREA DISTURBED BY THE FENCE INSTALLATION IS INCLUDED IN THE PAY ITEM PERIMETER EROSION BARRIER.
 - 4.) TEMPORARY DITCH CHECK, URETHANE FOAM / GEOTEXTILE SHALL BE CONSTRUCTED AS PER STANDARD LC1005 ON 100 FOOT CENTERS AS SHOWN HEREON OR AS DIRECTED BY THE ENGINEER. THE DITCH CHECKS SHALL BE INSTALLED AS GRADING PROGRESSES THROUGH THE PROJECT.
 - 5.) THE PAY ITEM FOR TEMPORARY DITCH CHECK, URETHANE FOAM / GEOTEXTILE SHALL INCLUDE THE COST OF INSTALLATION.
 - 6.) THE AREAS DISTURBED DURING THE CONSTRUCTION OF THE TEMPORARY PATH DURING STAGE 1 SHALL BE RESTORED WITH TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET AS SHOWN ON THE TYPICAL SECTIONS.
- APPLICABLE STANDARDS, SPECIFICATIONS, AND SPECIAL PROVISIONS FOR EROSION AND SEDIMENT CONTROL
- STANDARDS
LC1005 TRIANGULAR SILT DIKE INSTALLATION FOR ROADWAY DRAINAGE OR DRAINAGE DITCH
280001 TEMPORARY EROSION CONTROL SYSTEMS
- SPECIAL PROVISIONS
"EROSION CONTROL BLANKET"
"INLET PROTECTION, SPECIAL"
"PERIMETER EROSION BARRIER"

LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK, URETHANE FOAM / GEOTEXTILE
- INLET PROTECTION, SPECIAL
- STORM SEWER
- DITCH FLOW OR OUTFALL
- TOPSOIL, FURNISH AND PLACE 4" SODDING
- TOPSOIL, FURNISH AND PLACE 4" SEEDING, CLASS 4 EROSION CONTROL BLANKET
- TOPSOIL, FURNISH AND PLACE 4" SEEDING, CLASS 2 EROSION CONTROL BLANKET

ESTIMATED QUANTITIES

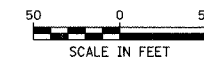
- 36 EACH TEMPORARY DITCH CHECKS, URETHANE FOAM / GEOTEXTILE
- 1,370 FEET PERIMETER EROSION BARRIER
- 9 EACH INLET PROTECTION, SPECIAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MONAVILLE ROAD BIKE PATH UNDERPASS

EROSION CONTROL PLAN

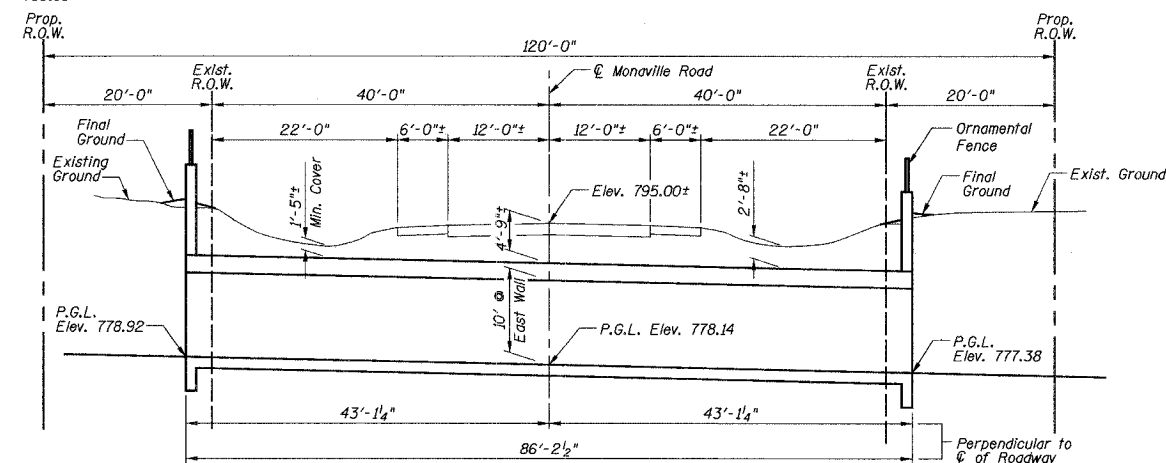


DESIGNED BY: D.J.K.
CHECKED BY: J.R.V.
DATE: 10/18/06

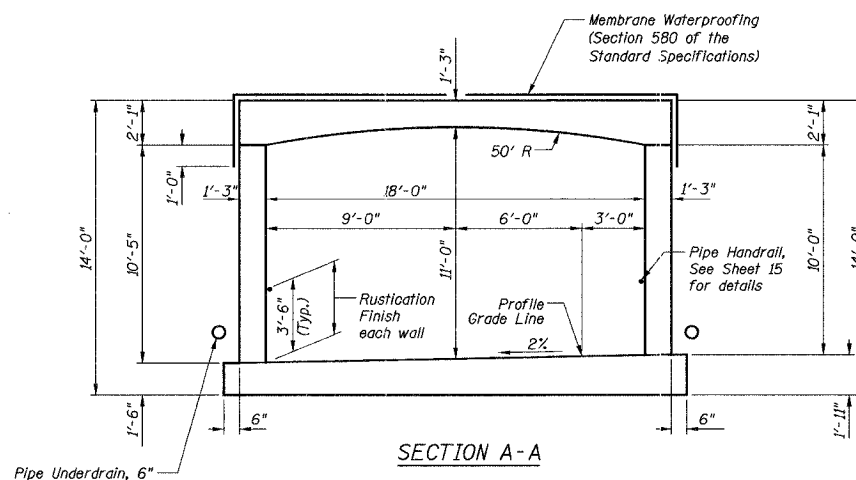
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	14
GENERAL PLAN & ELEVATION				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HD-80031695				

BENCHMARK

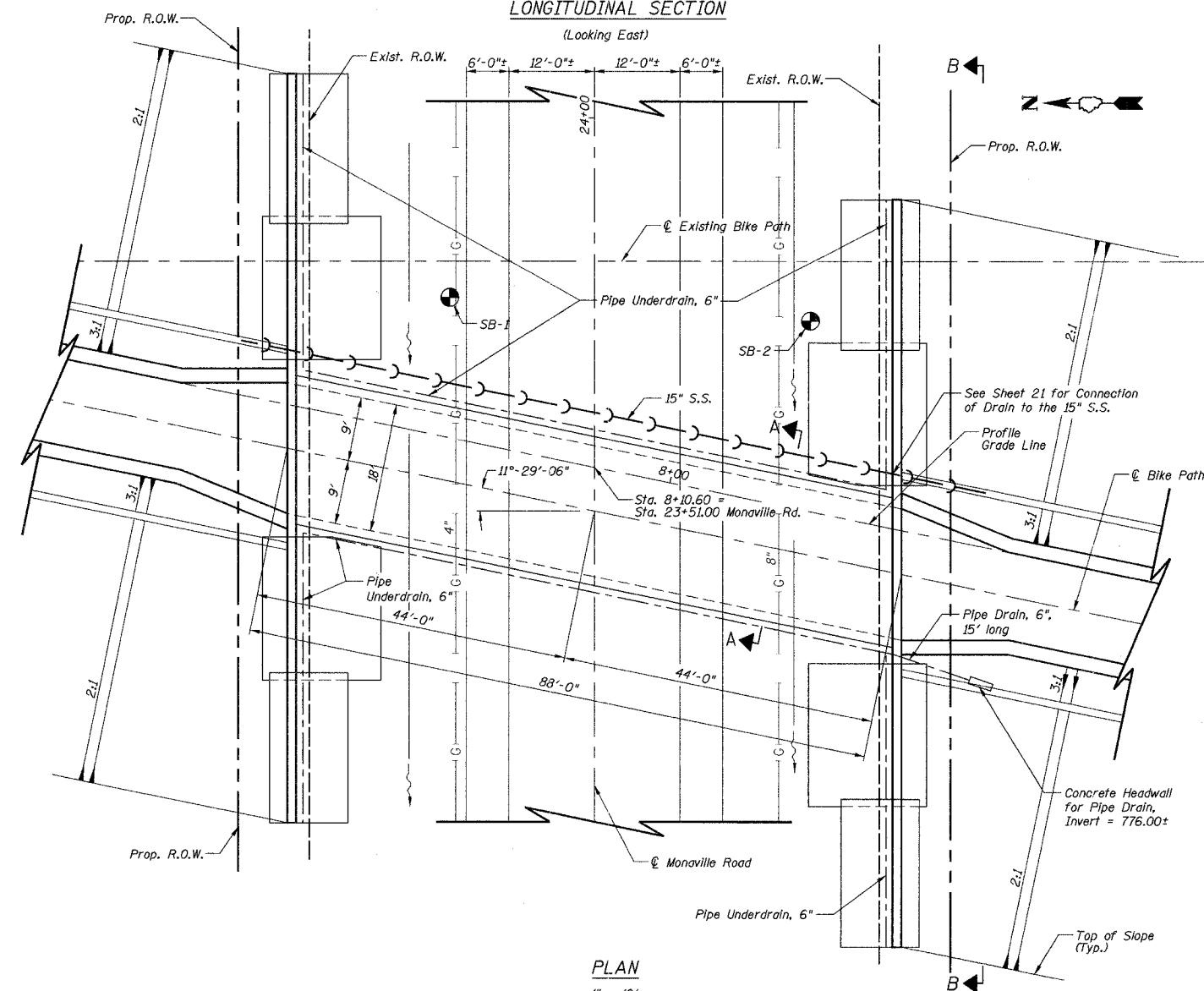
BM #1 LCBM Designation 2-35A.
Steel railroad spike in the East face of a wood utility pole located in the Northwestern intersection of Monaville Road and Fairfield Road
Elevation = 799.09



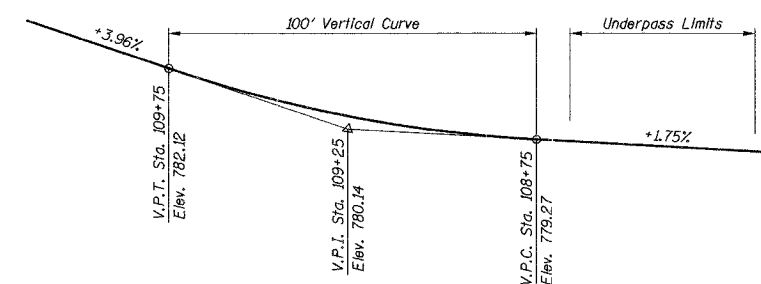
LONGITUDINAL SECTION
(Looking East)



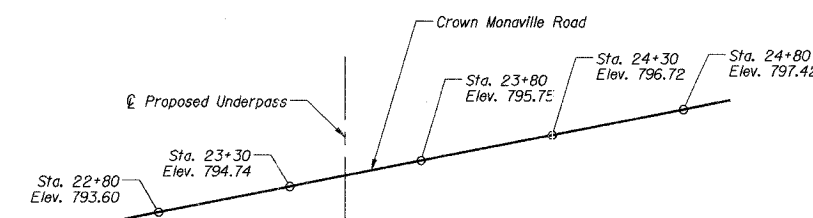
SECTION A-A



PLAN
1" = 10'



BIKE PATH PROFILE GRADE LINE



MONAVILLE ROAD PROFILE GRADE LINE

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



STATION 23+51.00
BUILT BY
LAKE COUNTY
SEC 01-00168-06-BT
S.T.R. NO. LOADING HS20

NAME PLATE

See Std. 515001-02
Attach to roadway side of the Southwest wingwall.

DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

LOADING

Equivalent Soil Fluid Pressure = 40#/ft³
Live Load - HS20-44

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi

LEGEND

⊙ Indicates Foundation Boring

Notes:

- Monaville Road will be closed for construction.
- For existing and proposed utilities, see Sheet 10.
- See contract documents for foundation boring logs and foundation report.
- See contract documents for ornamental fence details.
- See Sheet 15 for Elevation B-B.
- All edges shall have standard 3/4" chamfers except as noted.
- Bars indicated thus 3x2-#4 etc. indicate 3 lines of bars with 2 lengths per line.
- Required foundation soil bearing capacity = 4200 psf (wingwalls) = 2000 psf (underpass)
- Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42, or M-53, Grade 60.
- Reinforcement bars designated (E) shall be epoxy coated.
- b.f. = back face
f.f. = front face

BILL OF MATERIAL

Item	Unit	Quantity
Porous Granular Embankment (Special)	Cu. Yd.	616
Structure Excavation	Cu. Yd.	4165
Concrete Structures	Cu. Yd.	612.6'
Reinforcement Bars (Epoxy Coated)	Lb.	101,580
Pipe Underdrain, 6"	Foot	345
Pipe Drain, 6"	Foot	15
Rustication Finish	Sq. Ft.	3382
Ornamental Fence	Foot	217
Membrane Waterproofing	Sq. Ft.	2277
Geocomposite Wall Drain	Sq. Yd.	410
Concrete Headwall for Pipe Drain	Each	1
Pipe Handrail	Foot	176
Rubbed Finish	Sq. Ft.	3776
Name Plate	Each	1

REVISIONS	
NAME	DATE

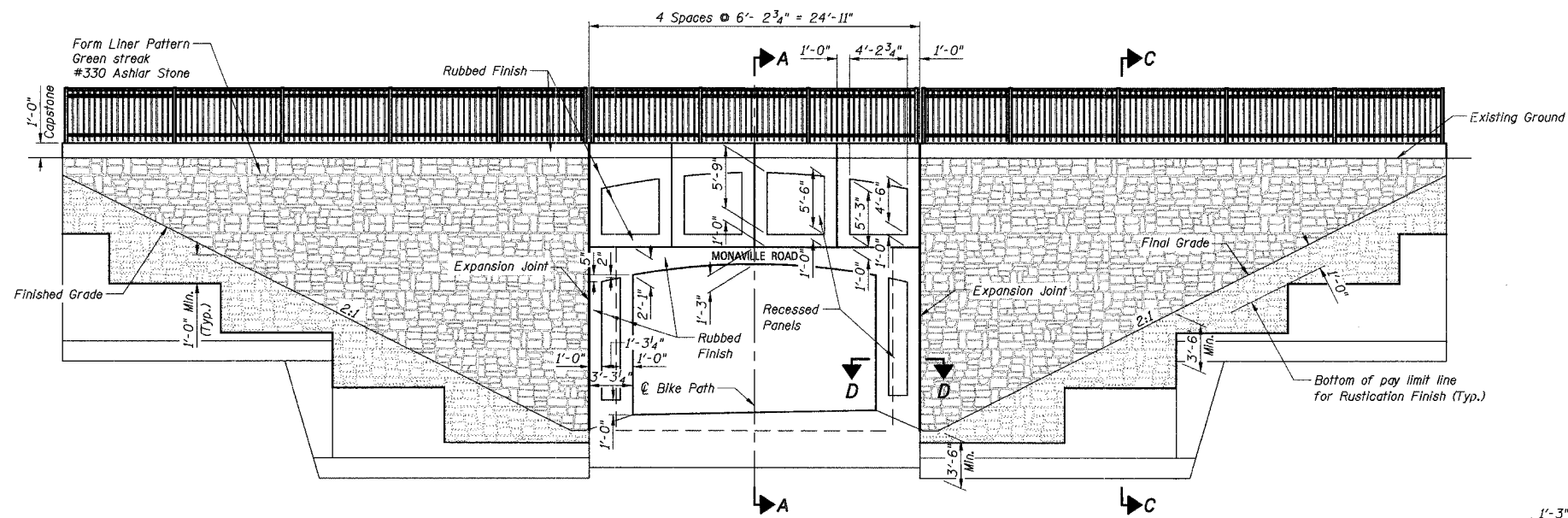
ILLINOIS DEPARTMENT OF TRANSPORTATION
MONAVILLE ROAD BIKE PATH UNDERPASS
GENERAL PLAN & ELEVATION

NOT TO SCALE

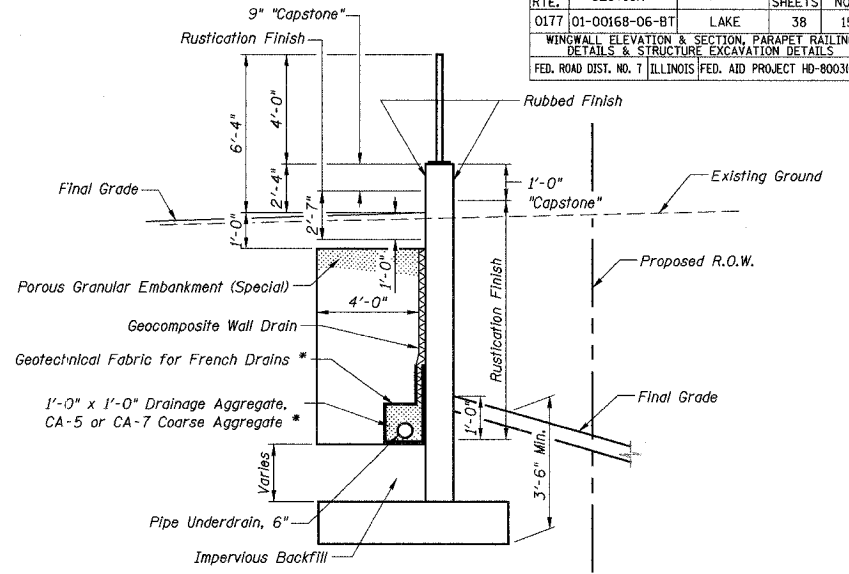
CHECKED BY: O.J.H.
DATE: 10/18/2006

F.A.U. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	15

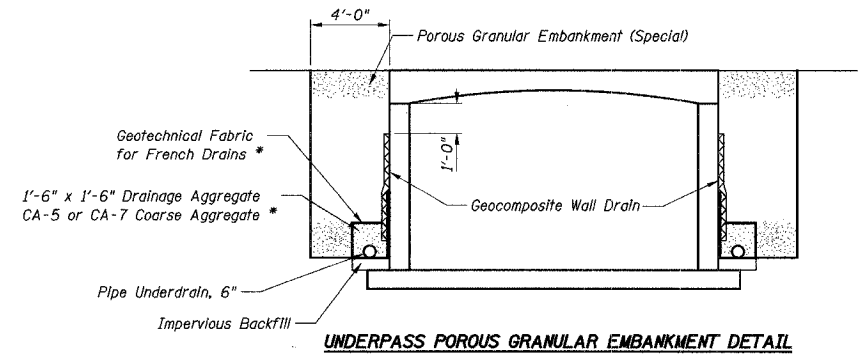
WINGWALL ELEVATION & SECTION, PARAPET RAILING DETAILS & STRUCTURE EXCAVATION DETAILS
 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80031695



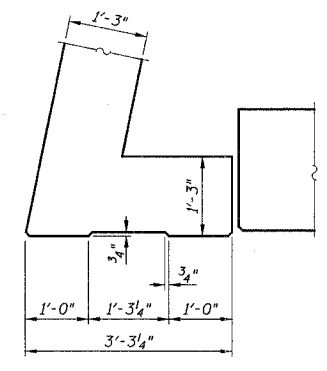
ELEVATION VIEW B-B
 The cost of constructing the recessed panels is included in Concrete Structures.



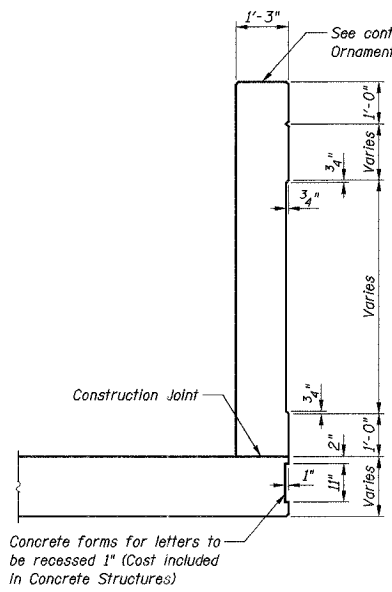
SECTION C-C
 * Included in the cost of Pipe Underdrain, 6"



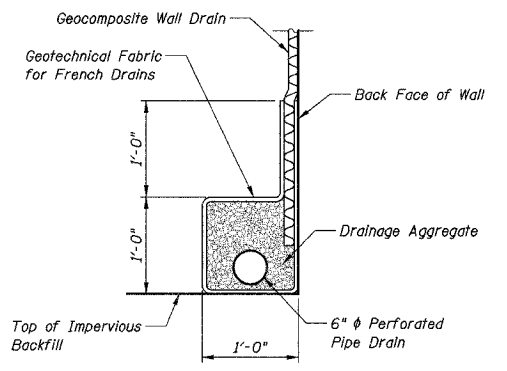
UNDERPASS POROUS GRANULAR EMBANKMENT DETAIL
 * Included in the cost of Pipe Underdrain, 6"



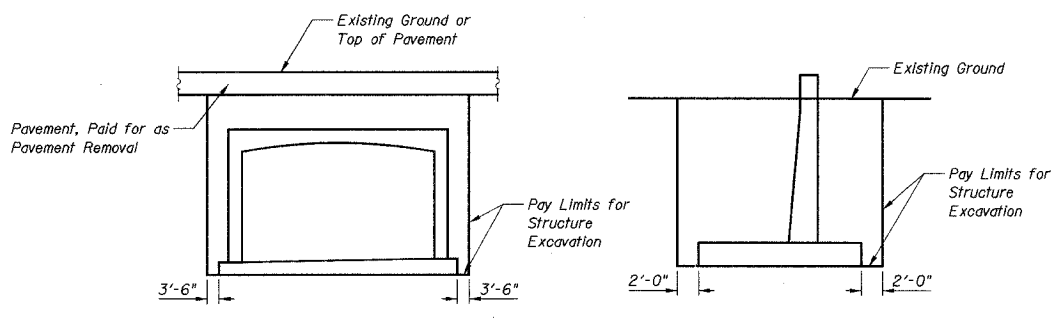
SECTION D-D



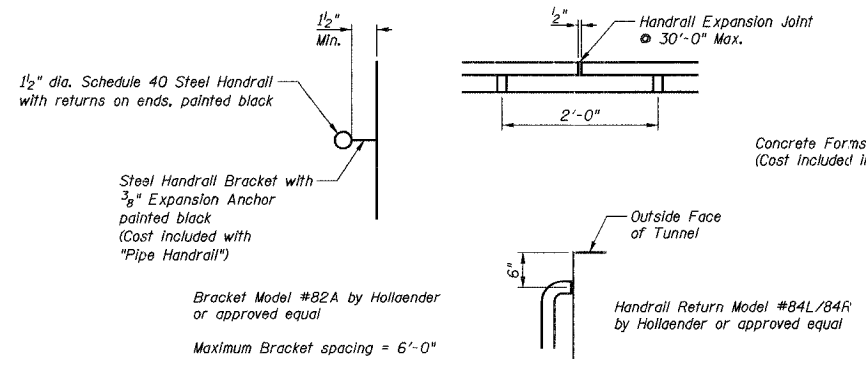
SECTION A-A



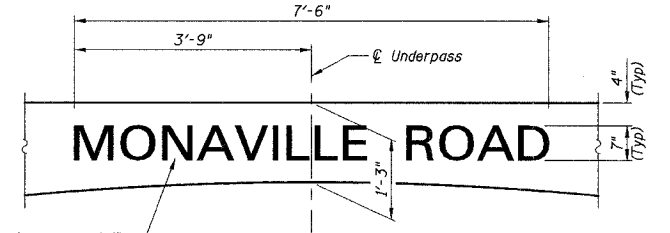
PIPE UNDERDRAIN DETAIL



UNDERPASS
WINGWALL
STRUCTURE EXCAVATION DETAIL



PIPE HANDRAIL DETAILS



TEXT DETAIL
 (Font Style to be Callisto MT)

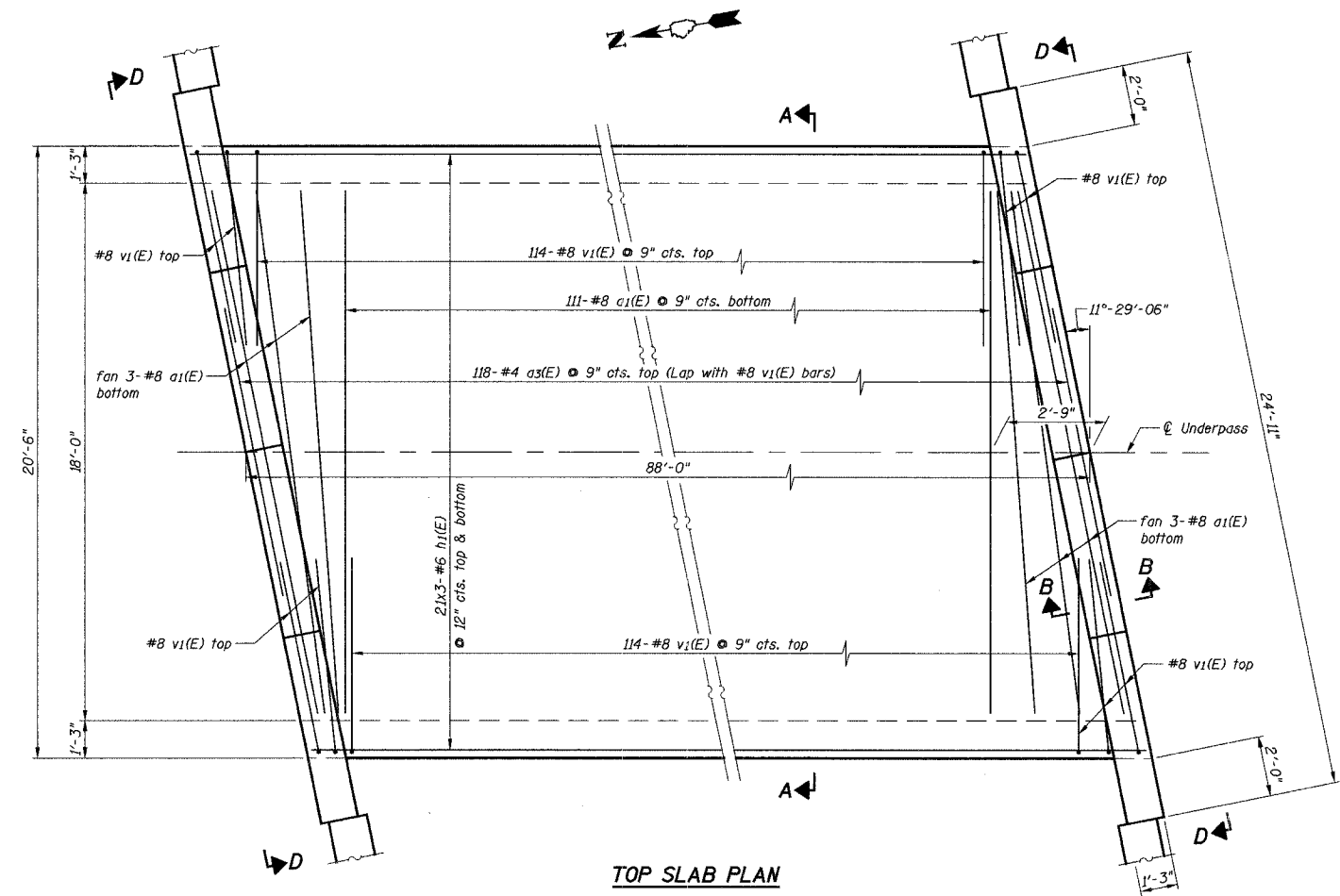
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONAVILLE ROAD BIKE PATH UNDERPASS
WINGWALL ELEVATION & SECTION,
PARAPET RAILING DETAILS &
STRUCTURE EXCAVATION DETAILS

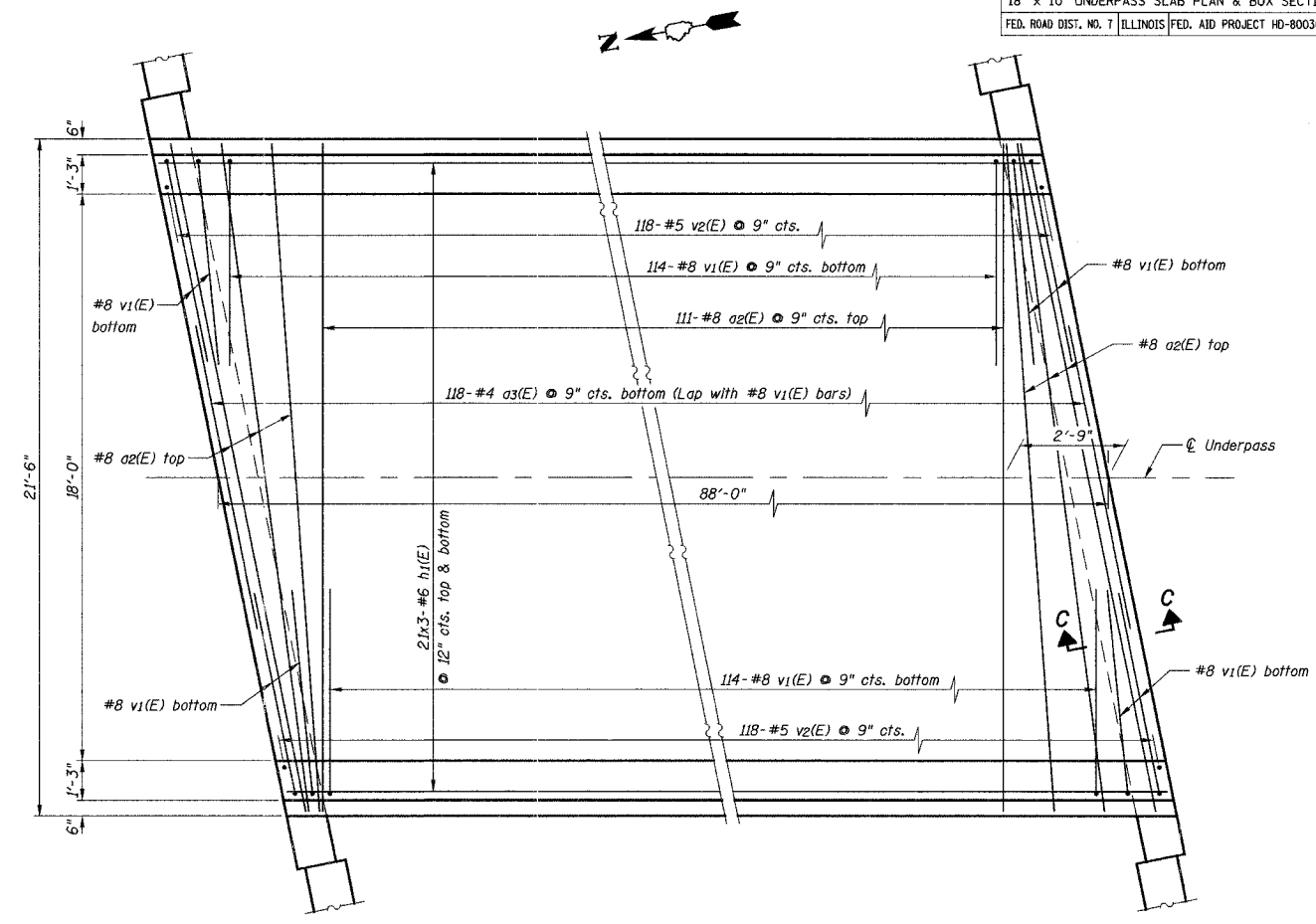
NOT TO SCALE

CHECKED BY: O.J.H.
 DATE: 10/18/2006

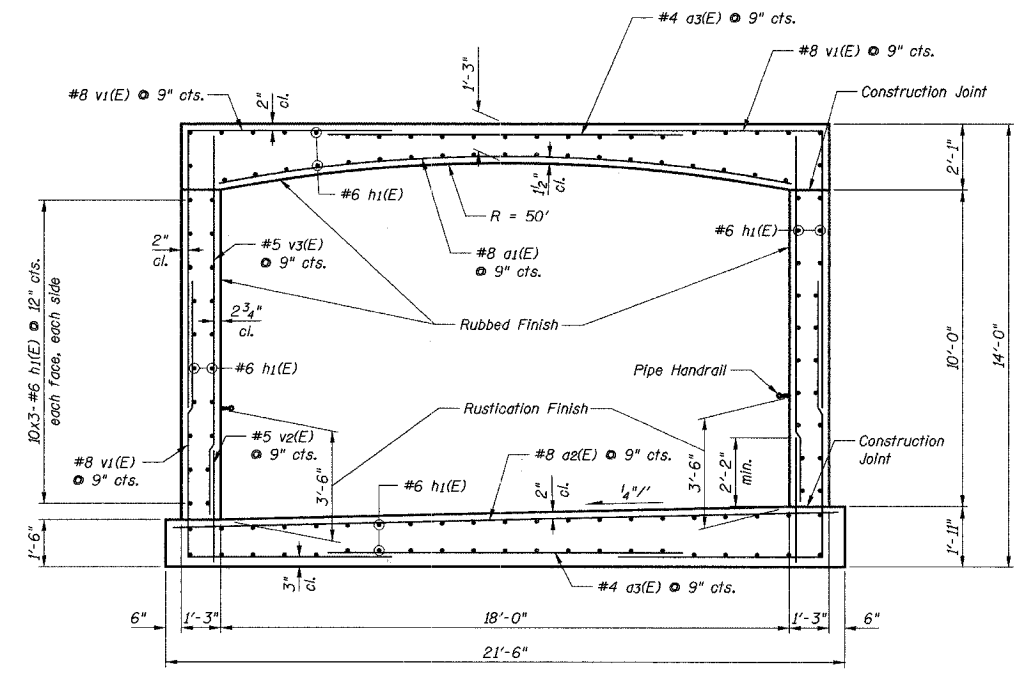
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	16
18' x 10' UNDERPASS SLAB PLAN & BOX SECTION				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80031695				



TOP SLAB PLAN



BOTTOM SLAB PLAN



SECTION A-A

NOTES
See Sheet 17 for Sections B-B and C-C and Elevation D-D.

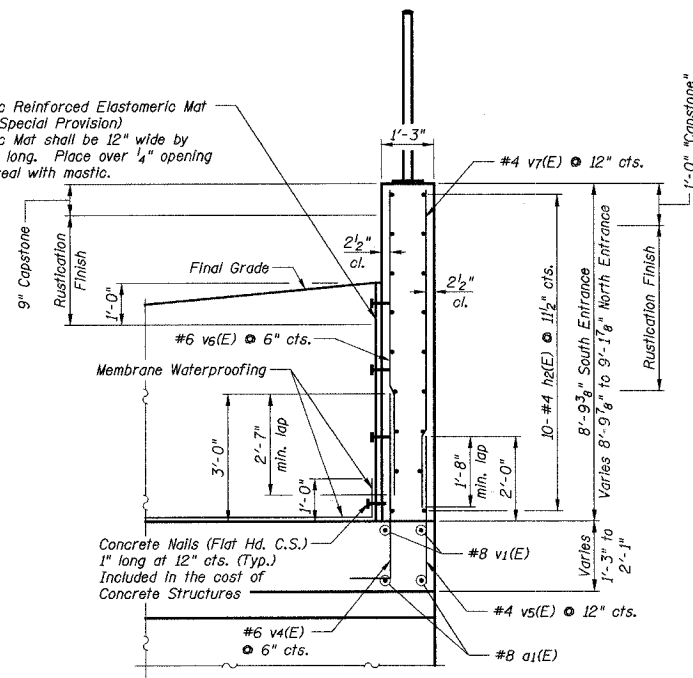
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONVILLE ROAD BIKE PATH UNDERPASS
18' x 10' UNDERPASS
SLAB PLAN & BOX SECTION
NOT TO SCALE
CHECKED BY: O.J.H.
DATE: 10/18/2006

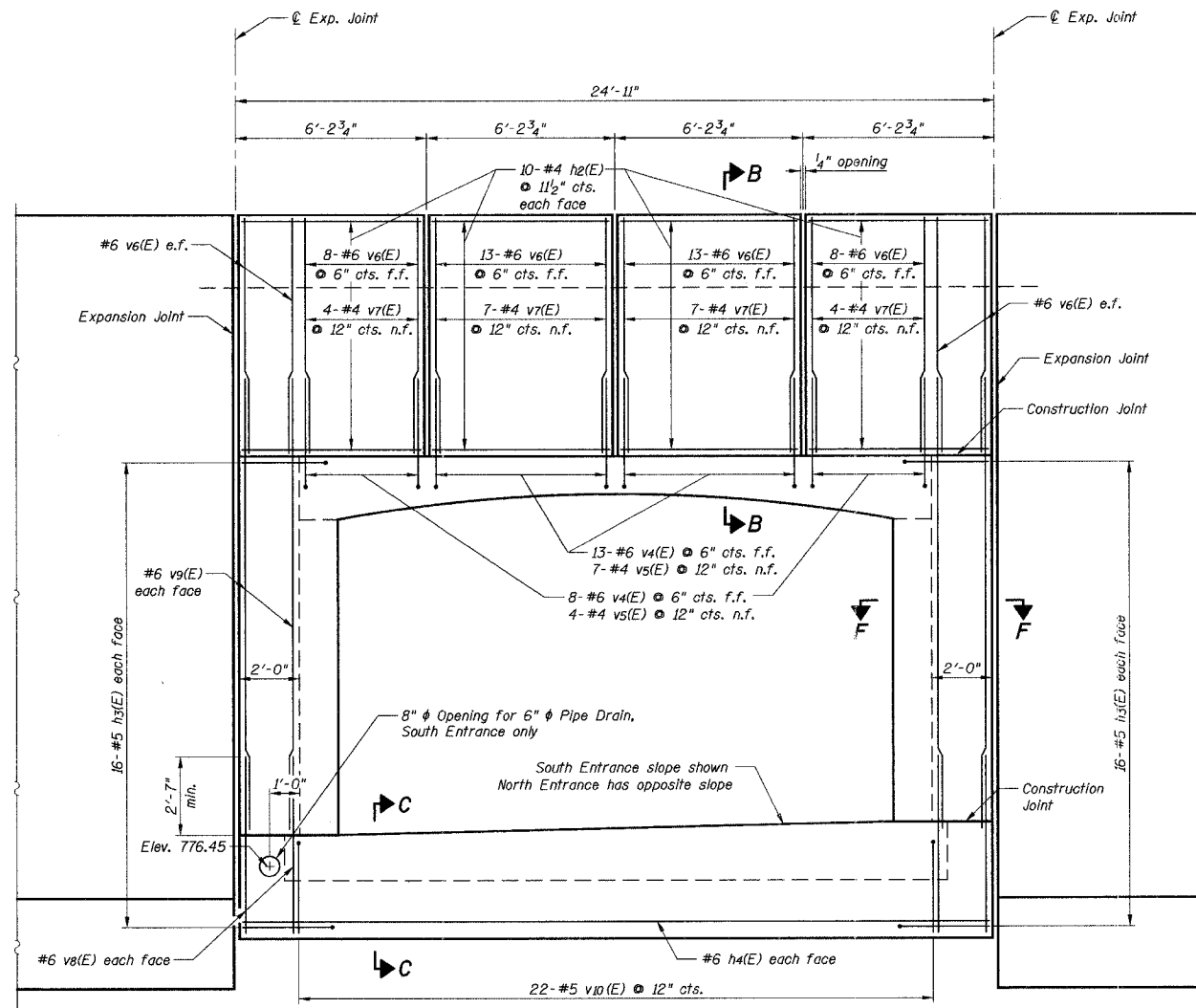
F.A. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	17

18' x 10' UNDERPASS DETAILS & BILL OF REINF.
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80031695

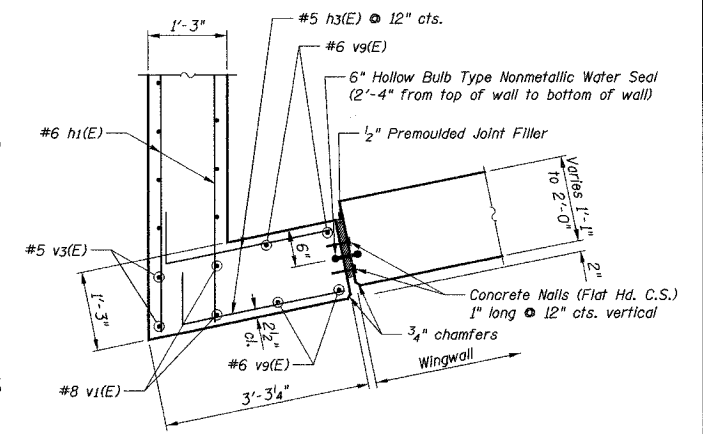
Fabric Reinforced Elastomeric Mat (See Special Provision)
Fabric Mat shall be 12" wide by 6'-8" long. Place over 1/4" opening and seal with mastic.



SECTION B-B



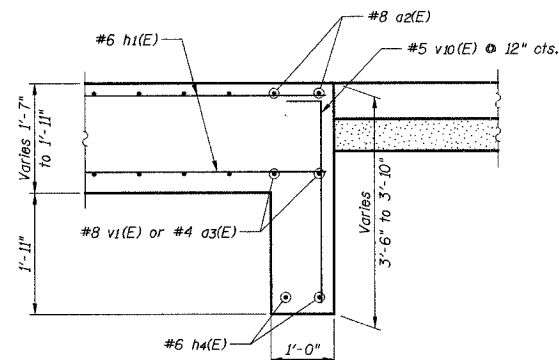
ELEVATION D-D



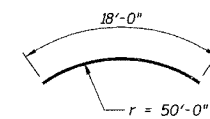
SECTION F-F

NOTES

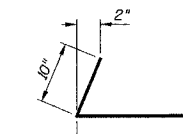
f.f. = far face
n.f. = near face
e.f. = each face



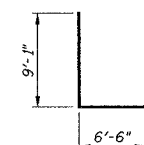
SECTION C-C



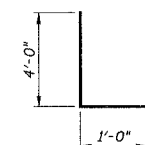
BAR a1(E)



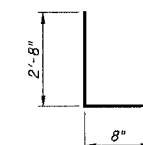
BAR h3(E)



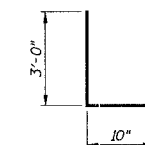
BAR v1(E)



BAR v4(E)



BAR v5(E)



BAR v10(E)

18' X 10' UNDERPASS
BILL OF REINFORCEMENT

Bar	No.	Size	Length	Shape
a1(E)	117	8	18'-0"	
a2(E)	117	8	21'-2"	
a3(E)	236	4	10'-6"	
h1(E)	372	6	31'-0"	
h2(E)	160	4	5'-10"	
h3(E)	128	5	3'-4"	
h4(E)	4	6	24'-7"	
v1(E)	472	8	15'-7"	
v2(E)	236	5	3'-5"	
v3(E)	236	5	11'-10"	
v4(E)	84	6	5'-0"	
v5(E)	44	4	3'-4"	
v6(E)	100	6	8'-7"	
v7(E)	44	4	8'-7"	
v8(E)	16	6	6'-2"	
v9(E)	16	6	15'-0"	
v10(E)	44	5	3'-10"	

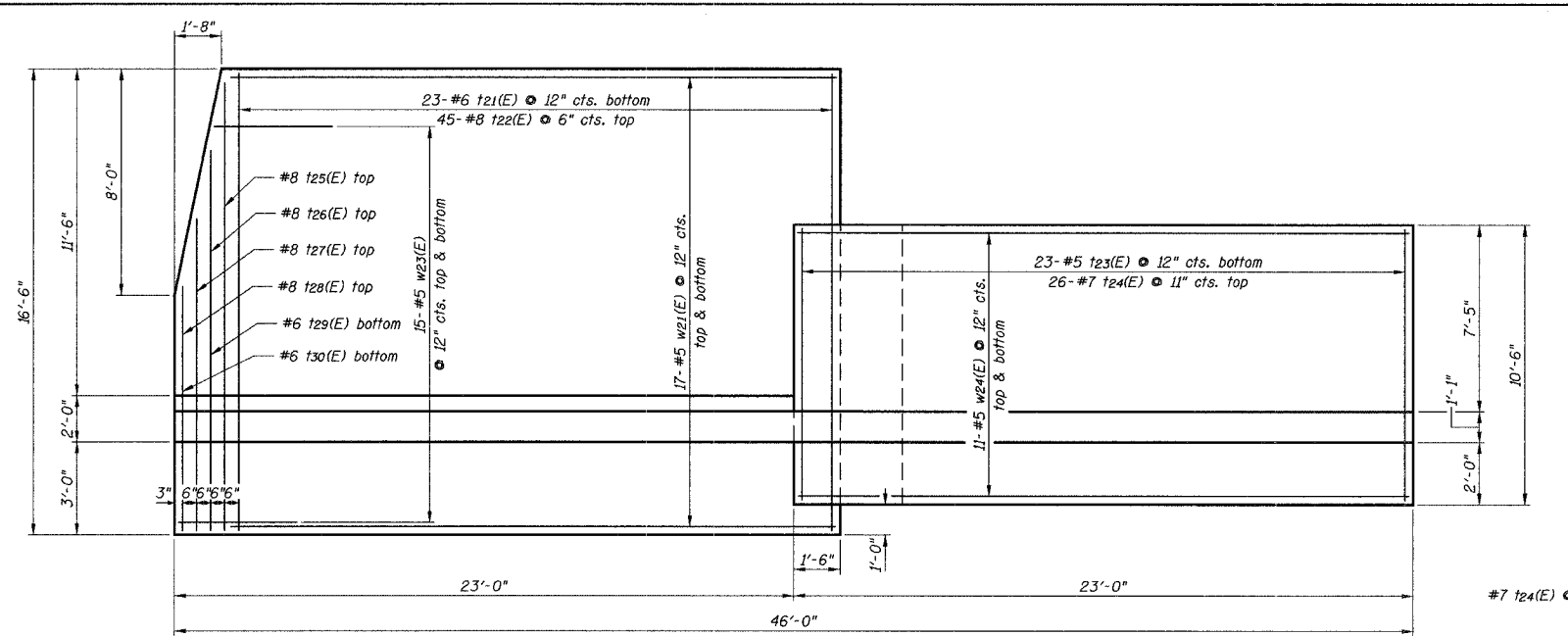
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONAVILLE ROAD BIKE PATH UNDERPASS
18' x 10' UNDERPASS
DETAILS &
BILL OF REINFORCEMENT

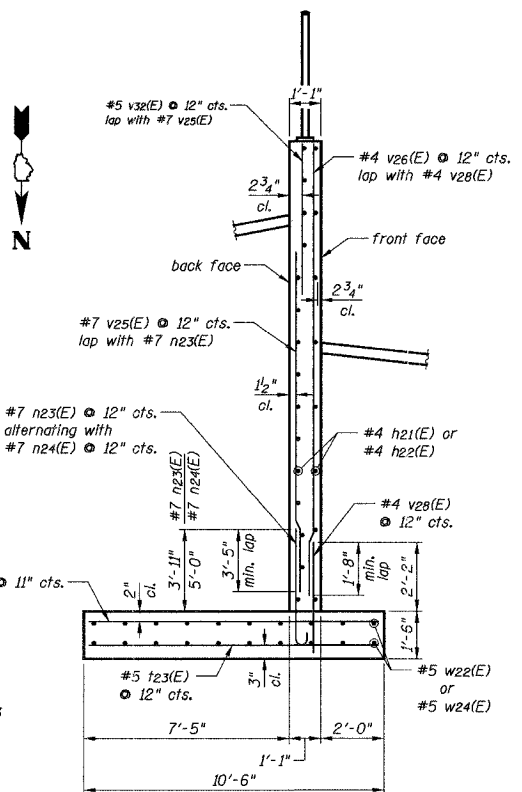
NOT TO SCALE

CHECKED BY: O.J.H.
DATE: 10/18/2006

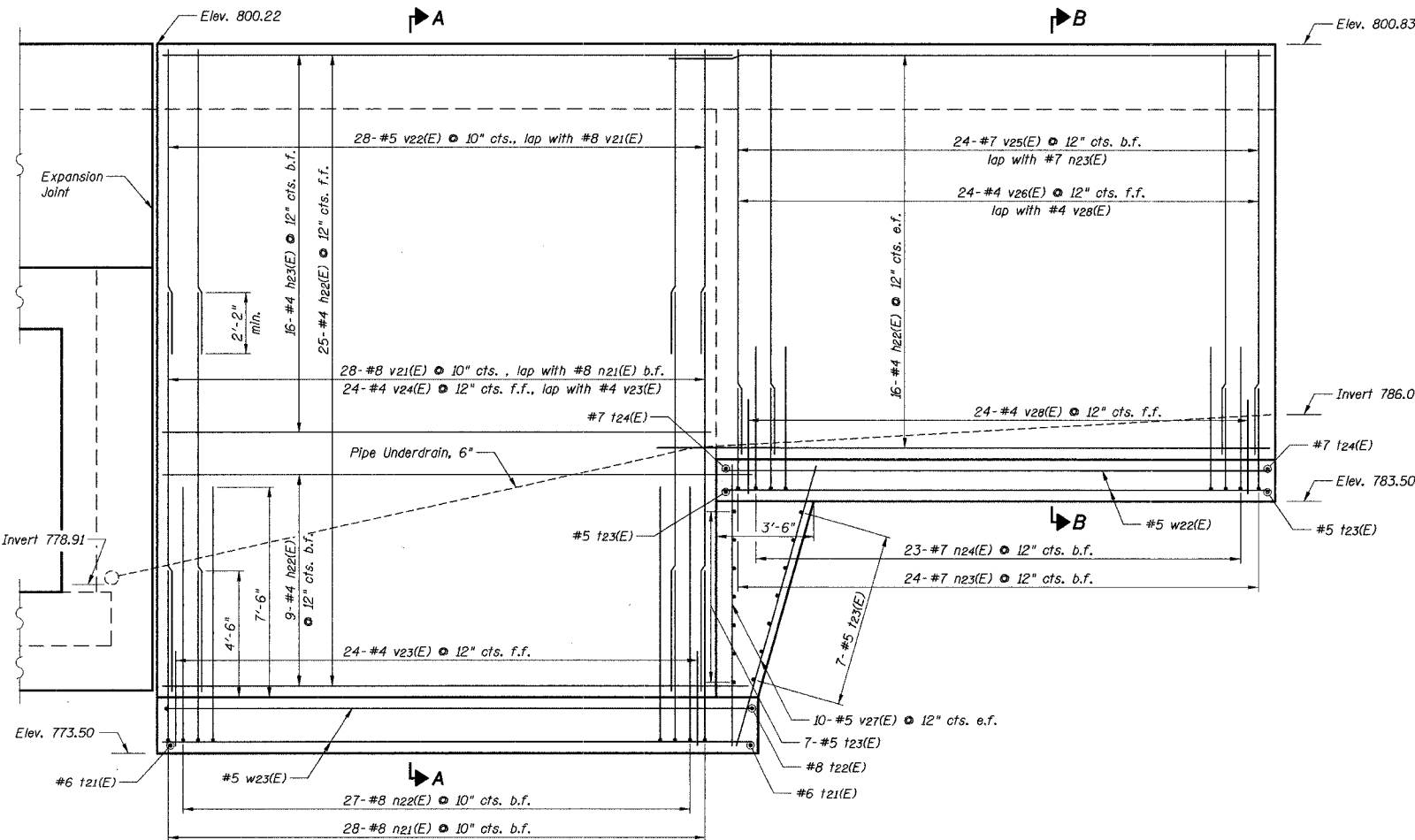
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	18
NORTHWEST WINGWALL PLAN & ELEVATION				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80031695				



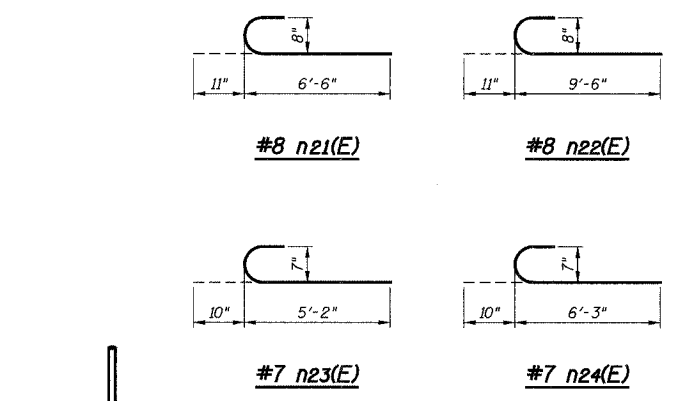
PLAN



SECTION B-B

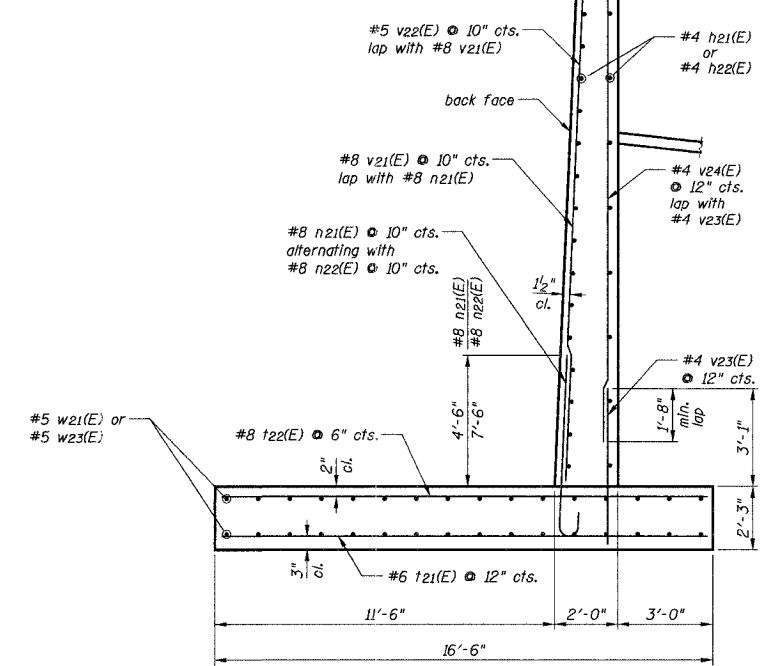


ELEVATION



BILL OF MATERIAL WINGWALLS

Bar	No.	Size	Length	Shape
h21(E)	193	#4	22'-2"	—
h22(E)	66	#4	24'-2"	—
h23(E)	16	#4	22'-8"	—
h24(E)	49	#4	20'-8"	—
n21(E)	104	#8	7'-5"	C
n22(E)	100	#8	10'-5"	C
n23(E)	90	#7	6'-0"	C
n24(E)	86	#7	7'-1"	C
t21(E)	90	#6	16'-2"	—
t22(E)	176	#8	16'-2"	—
t23(E)	145	#5	10'-2"	—
t24(E)	98	#7	10'-2"	—
t25(E)	2	#8	14'-0"	—
t26(E)	2	#8	12'-6"	—
t27(E)	2	#8	10'-6"	—
t28(E)	2	#8	8'-3"	—
t29(E)	2	#6	12'-6"	—
t30(E)	2	#6	8'-3"	—
v21(E)	106	#8	15'-3"	—
v22(E)	106	#5	11'-4"	—
v23(E)	90	#4	5'-1"	—
v24(E)	90	#4	23'-2"	—
v25(E)	90	#7	11'-10"	—
v26(E)	90	#4	15'-2"	—
v27(E)	80	#4	10'-1"	—
v28(E)	90	#4	3'-5"	—
v29(E)	4	#6	2'-4"	—
v30(E)	4	#6	9'-1"	—
v31(E)	16	#6	4'-6"	—
v32(E)	90	#5	5'-6"	—
w21(E)	102	#5	22'-2"	—
w22(E)	66	#5	20'-8"	—
w23(E)	60	#5	4'-6"	—
w24(E)	22	#5	22'-8"	—
w25(E)	34	#5	20'-6"	—



SECTION A-A

Notes:
 b.f. = back face
 f.f. = front face
 e.f. = each face

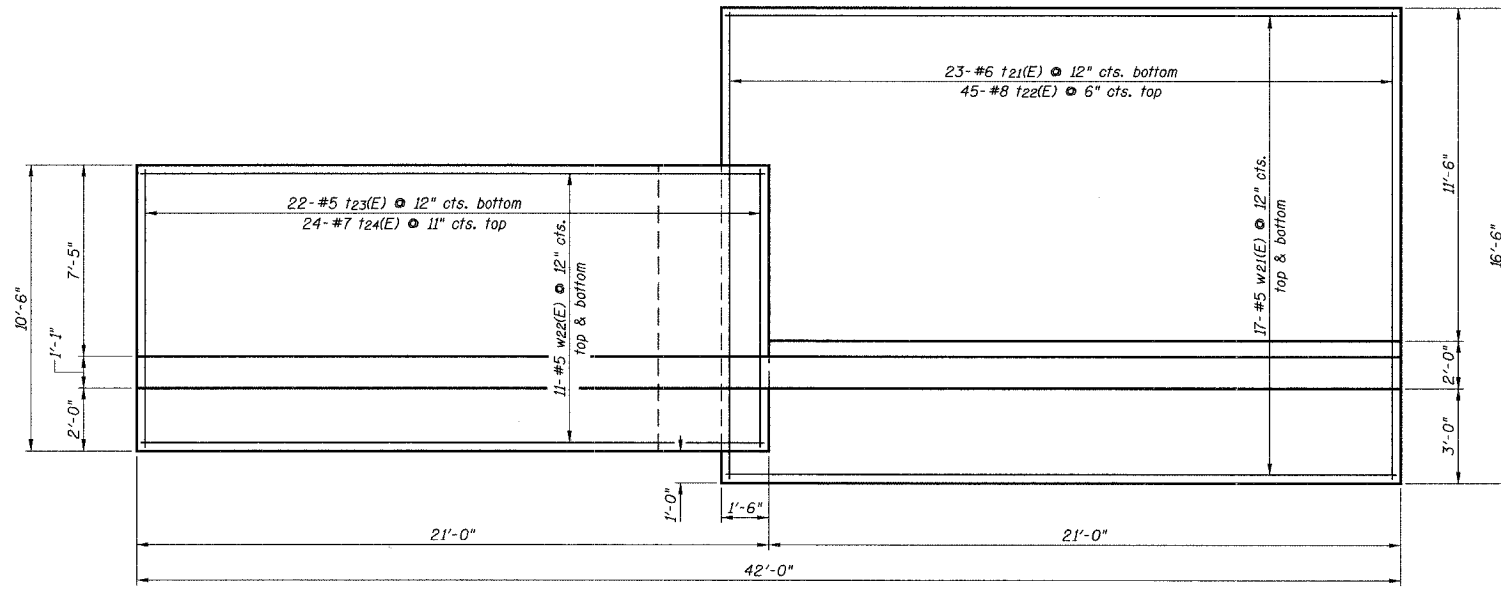
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MONAVILLE ROAD BIKE PATH UNDERPASS
 NORTHWEST WINGWALL
 PLAN & ELEVATION

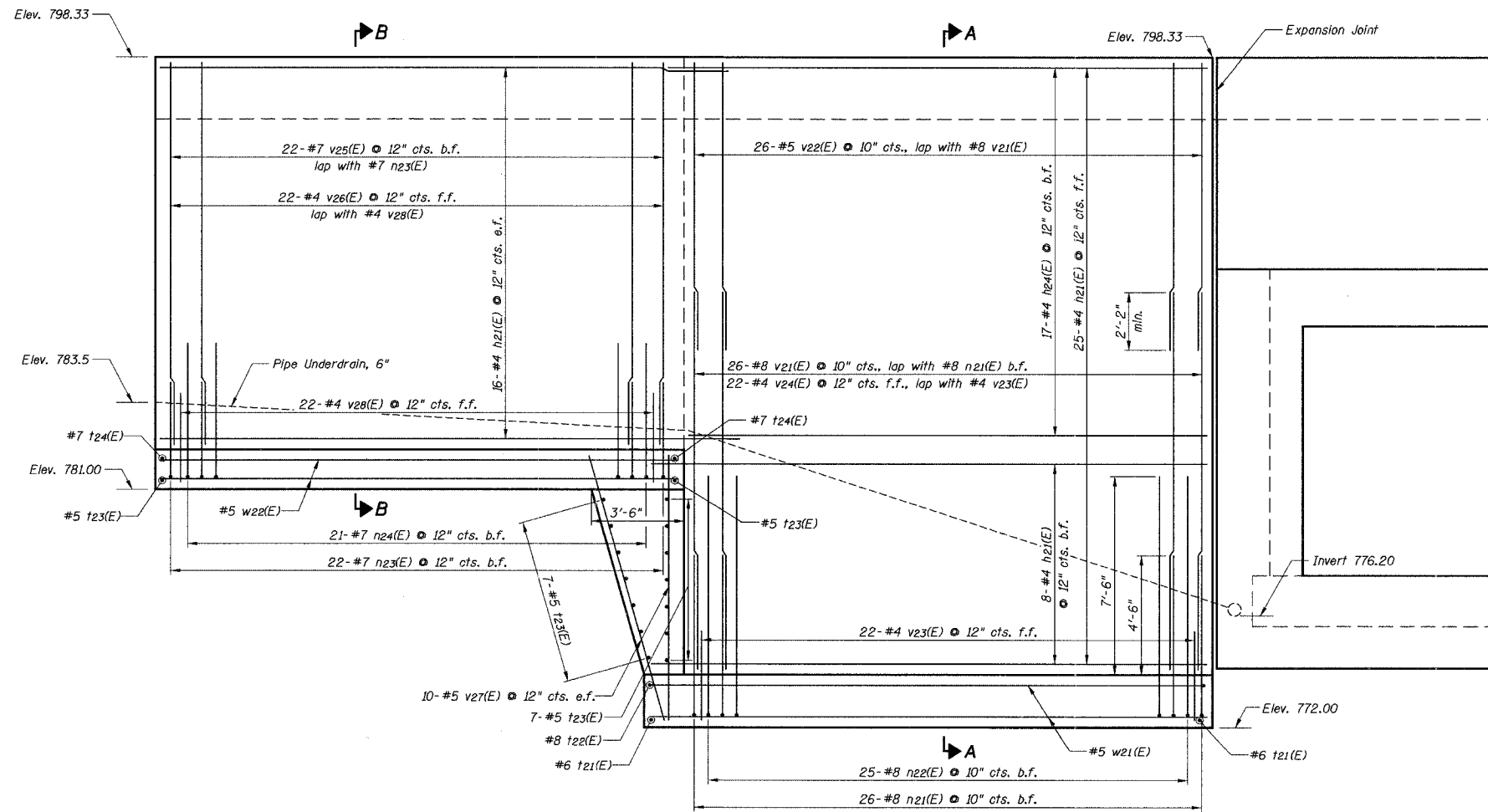
NOT TO SCALE

CHECKED BY: O.J.H.
 DATE: 10/18/2006

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	20
SOUTHWEST WINGWALL PLAN & ELEVATION				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80031695				



PLAN



ELEVATION

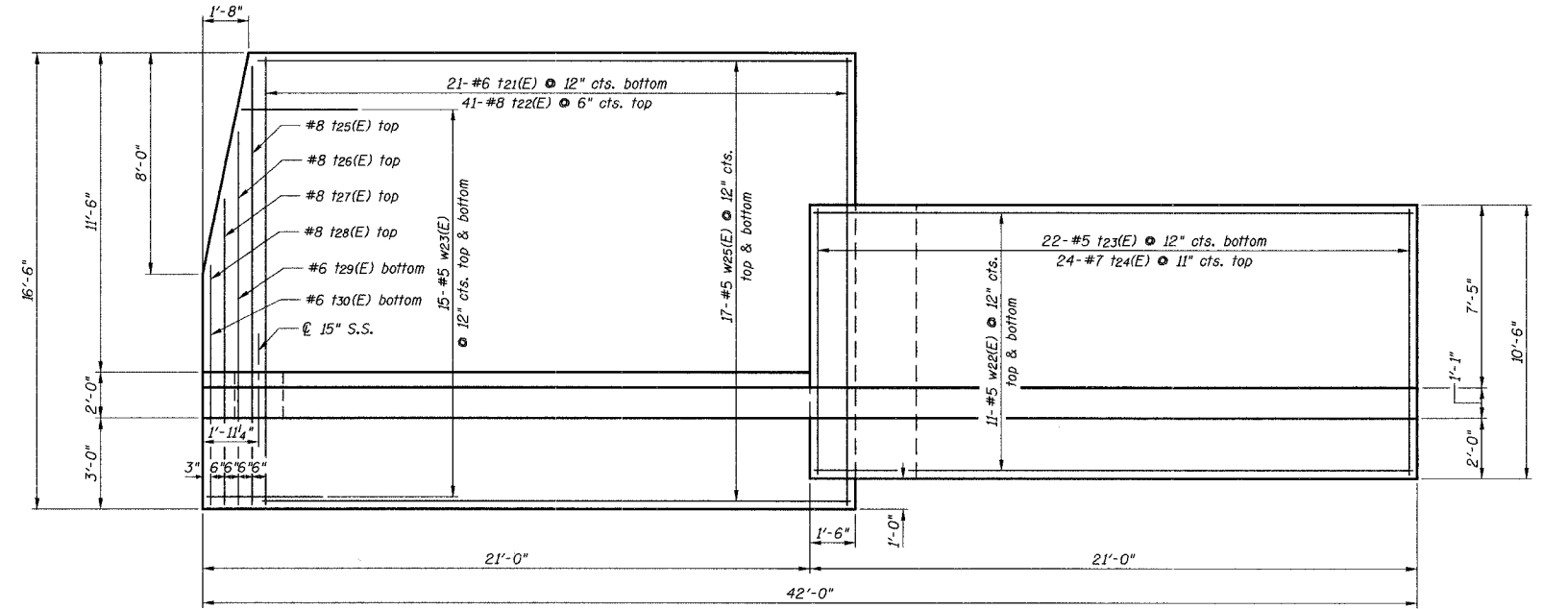
Notes:
 See Sheet 18 for Sections A-A and B-B.
 b.f. = back face
 f.f. = front face
 e.f. = each face

REVISIONS	
NAME	DATE

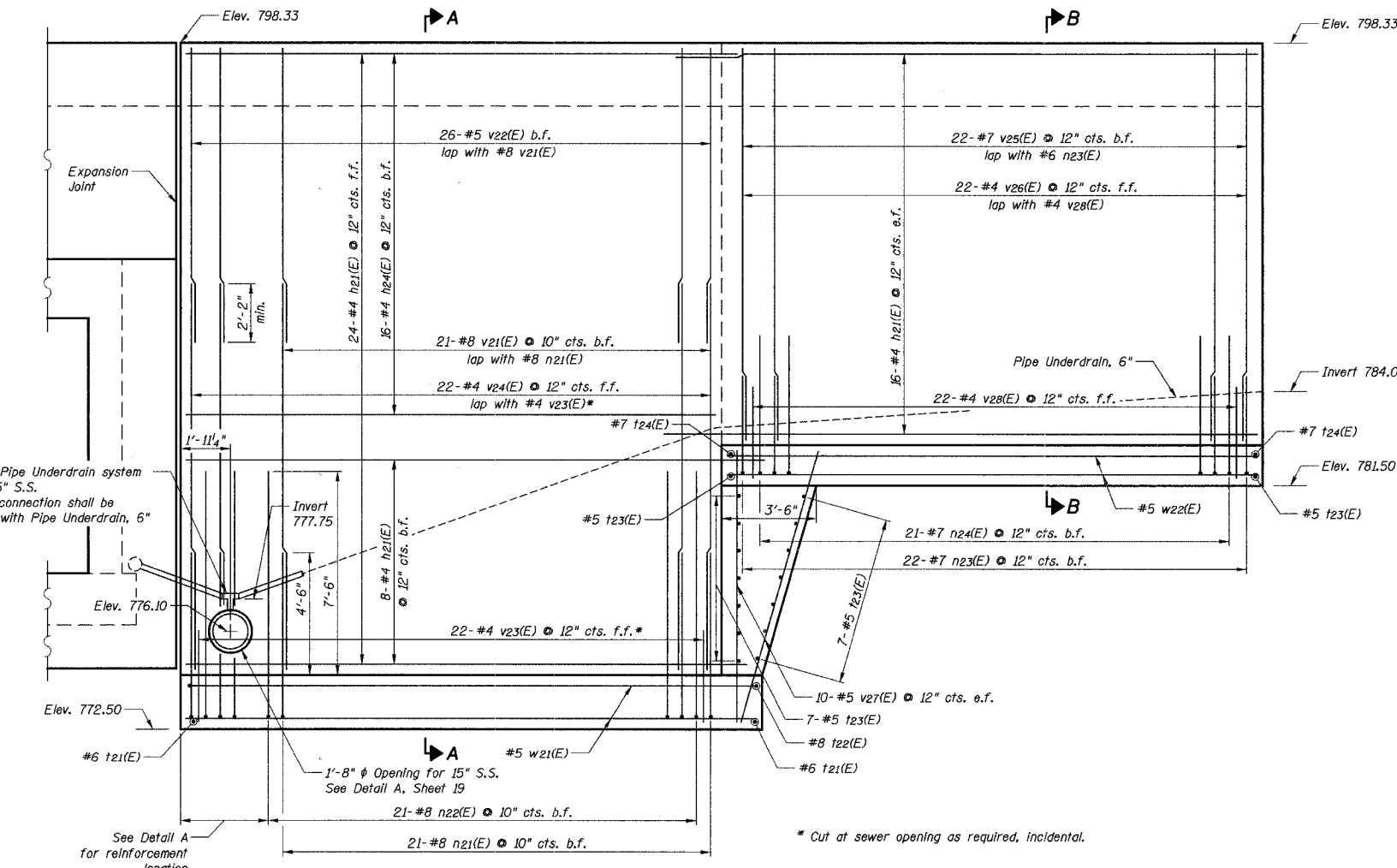
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MONAVILLE ROAD BIKE PATH UNDERPASS
 SOUTHWEST WINGWALL
 PLAN & ELEVATION

NOT TO SCALE
 CHECKED BY: O.J.H.
 DATE: 10/18/2006

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	21
SOUTHEAST WINGWALL PLAN & ELEVATION				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				



PLAN



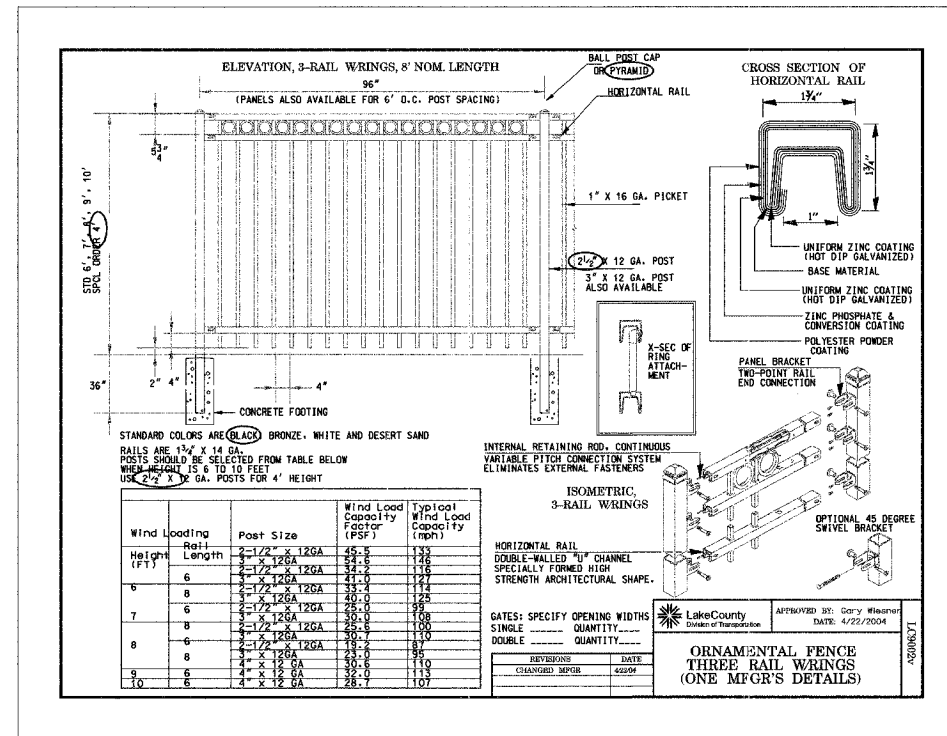
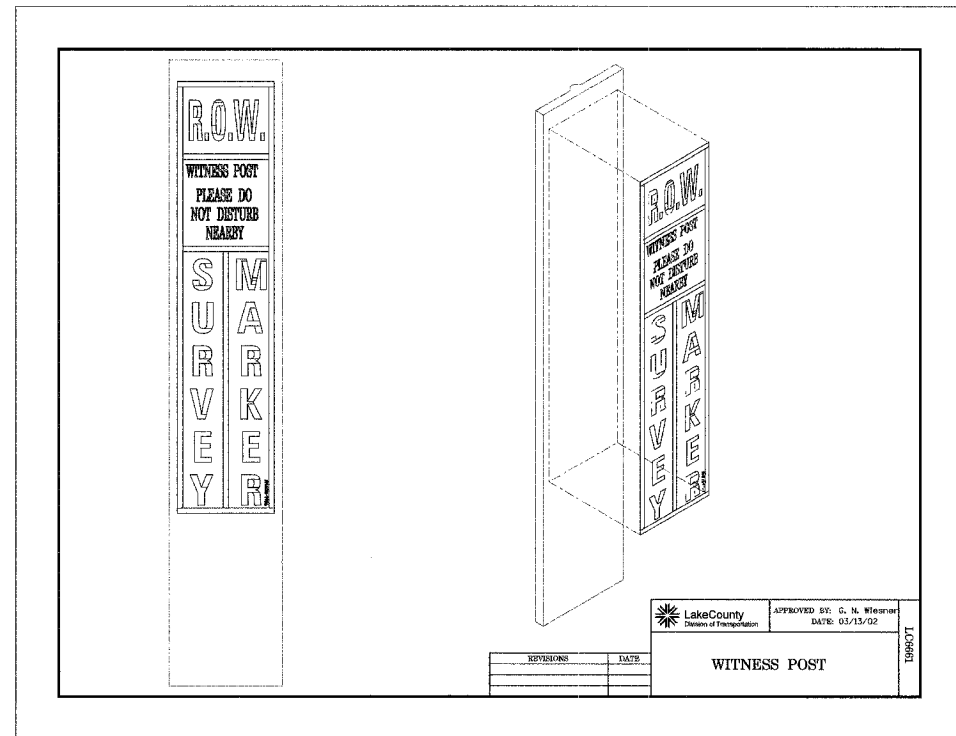
ELEVATION

Notes:
 See Sheet 18 for Sections A-A and B-B.
 b.f. = back face
 f.f. = front face
 e.f. = each face

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONAVILLE ROAD BIKE PATH UNDERPASS
SOUTHEAST WINGWALL
PLAN & ELEVATION

NOT TO SCALE
 CHECKED BY: O.J.H.
 DATE: 10/18/2006



ILLINOIS DEPARTMENT OF TRANSPORTATION

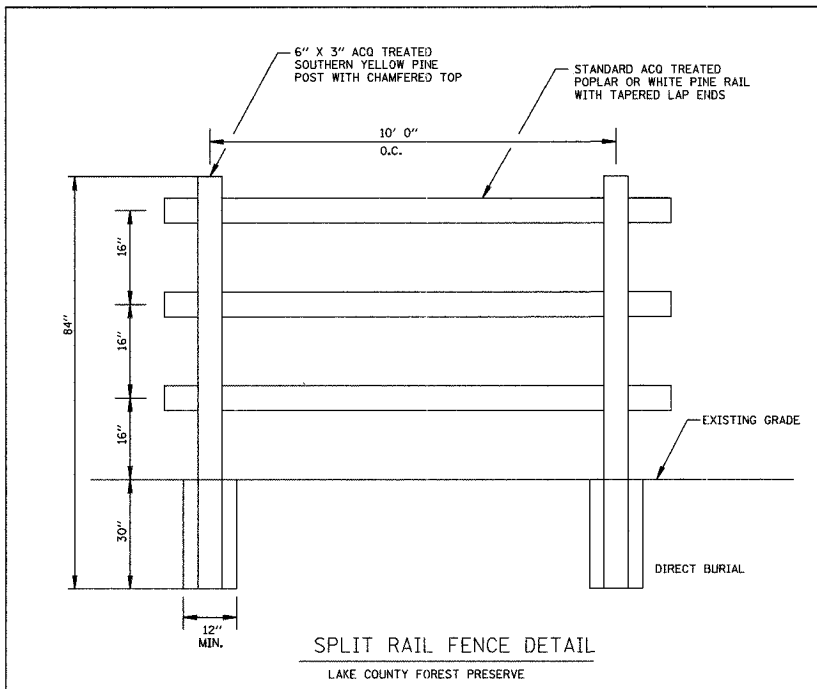
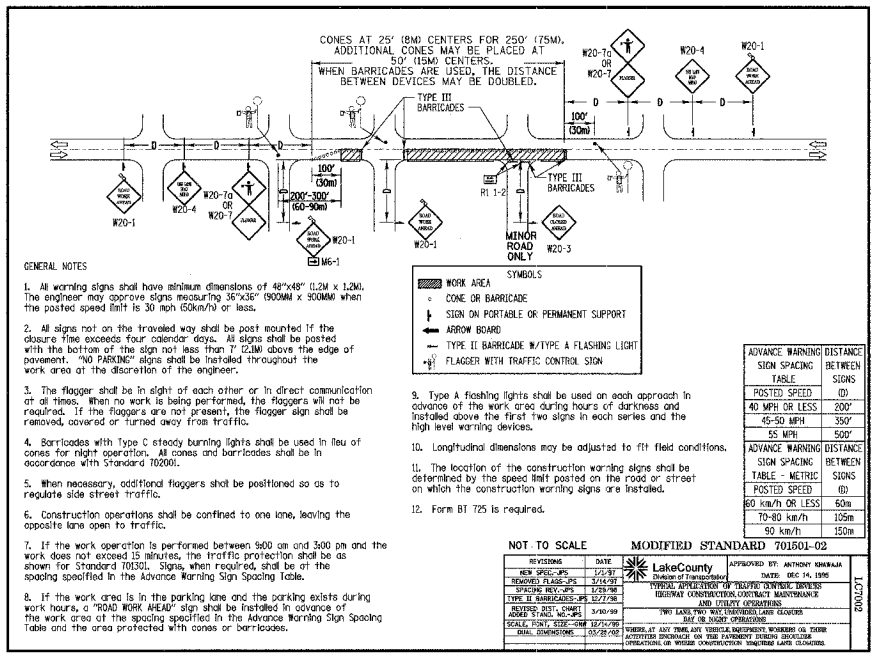
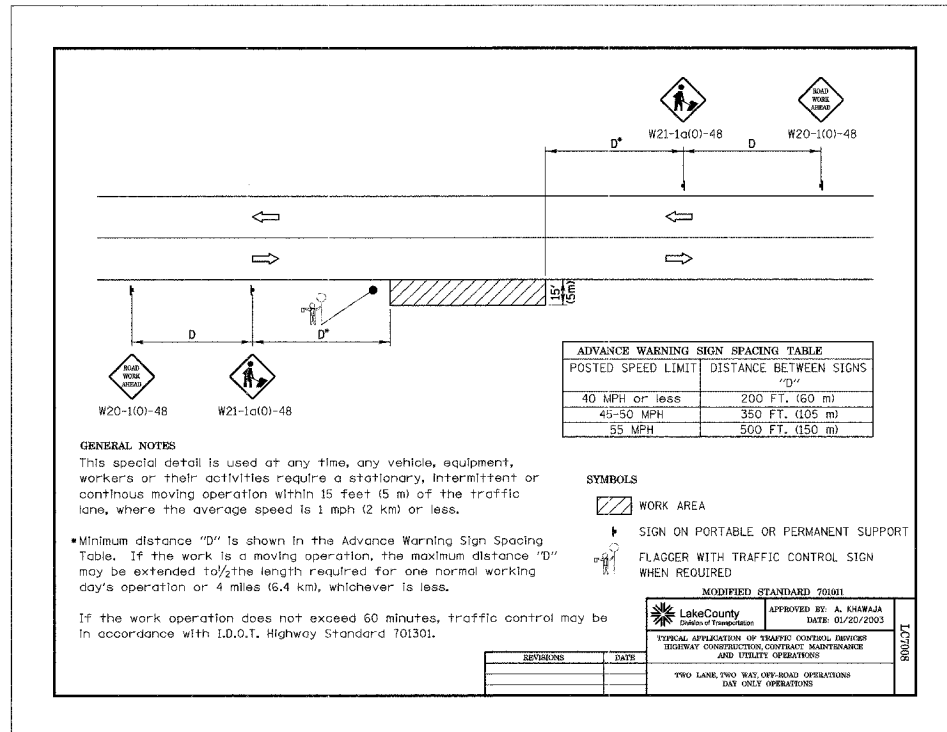
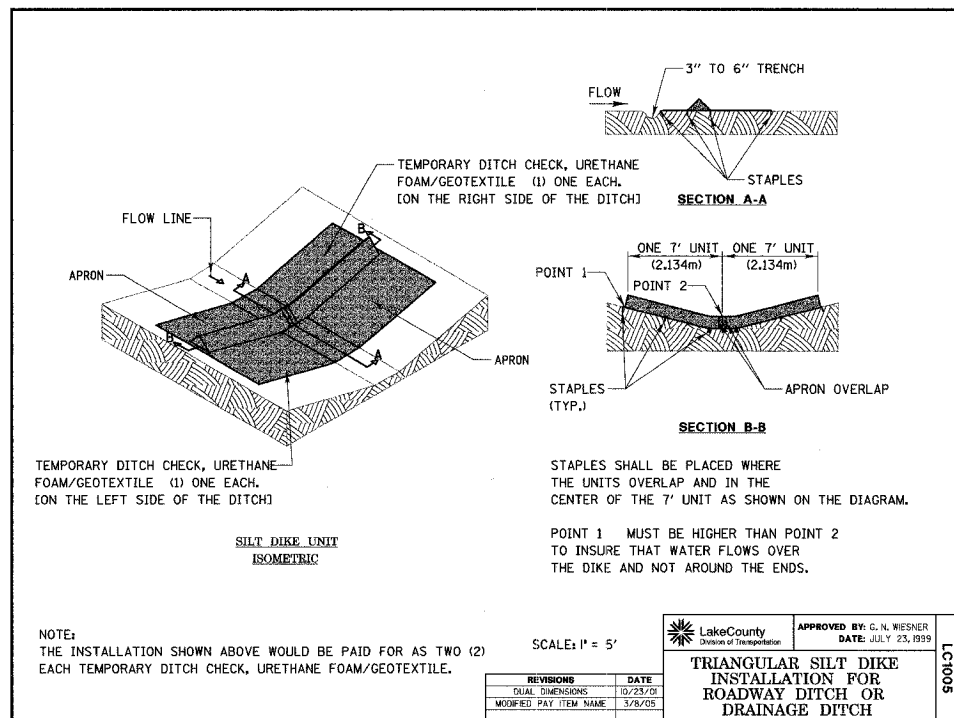
MONAVILLE ROAD BIKE PATH UNDERPASS

DETAILS

CHECKED BY: D.J.K.
DATE: 10/18/06

REVISIONS	
NAME	DATE

NOT TO SCALE



ILLINOIS DEPARTMENT OF TRANSPORTATION

MONVILLE ROAD BIKE PATH UNDERPASS

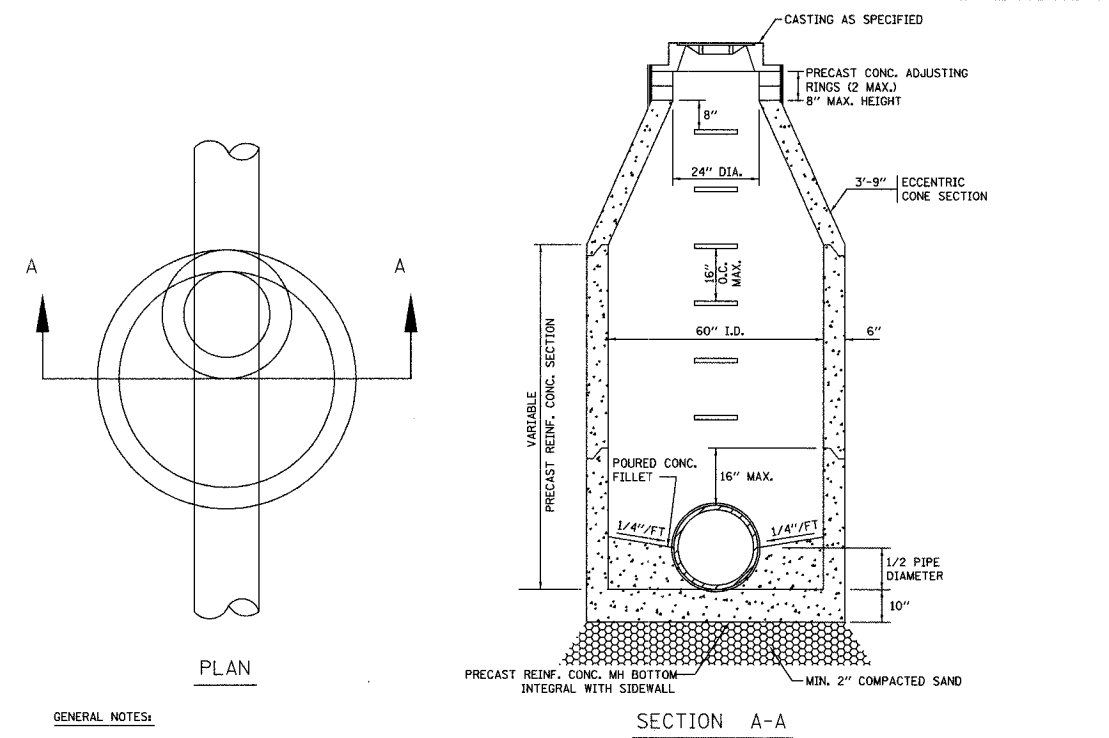
DETAILS

NOT TO SCALE

CHECKED BY: D.J.K.
 DATE: 10/18/06

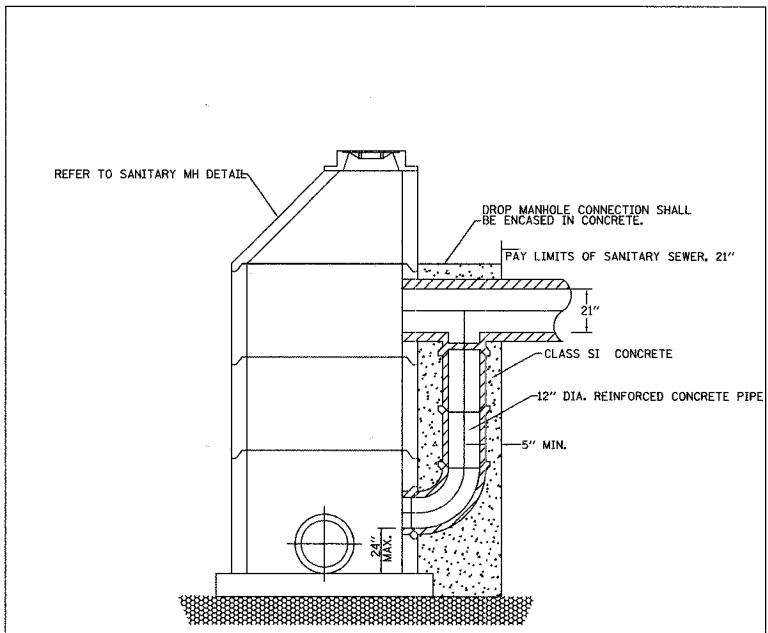
REVISIONS	NAME	DATE

CONTRACT NO. 83880				
F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	24
DETAILS				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80036959				



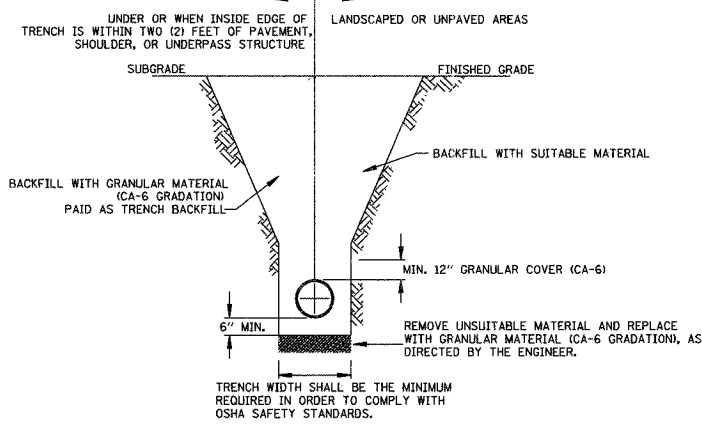
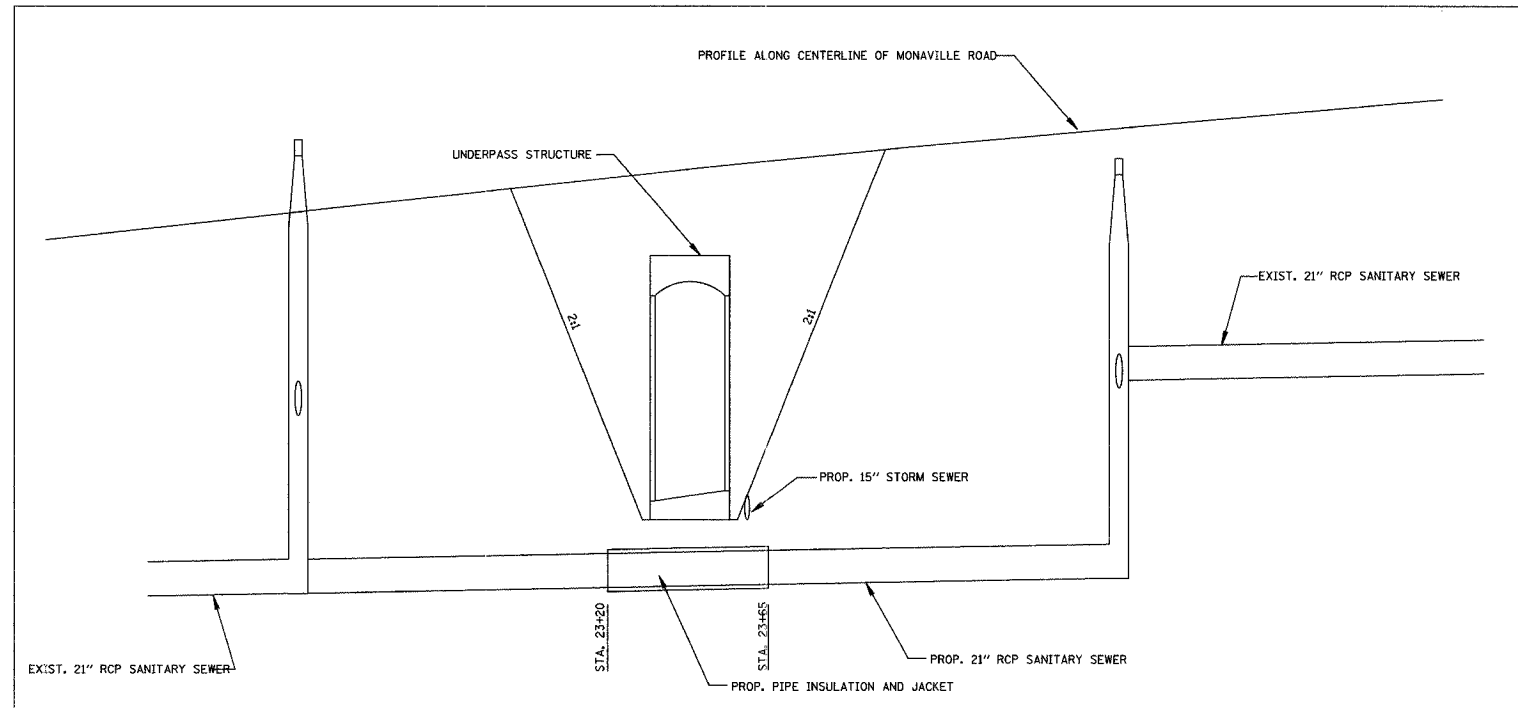
- GENERAL NOTES:**
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
 2. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT.
 3. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT.
 4. SANITARY MANHOLES SHALL BE CONSTRUCTED WITH A CHIMNEY SEALING SYSTEM APPROVED BY THE VILLAGE.

SANITARY MANHOLE DETAIL



- GENERAL NOTES:**
1. THE COST OF ENCASED THE DROP CONNECTION IN CLASS S1 CONCRETE SHALL BE INCLUDED IN THE COST OF "OUTSIDE DROP CONNECTION."

OUTSIDE DROP CONNECTION



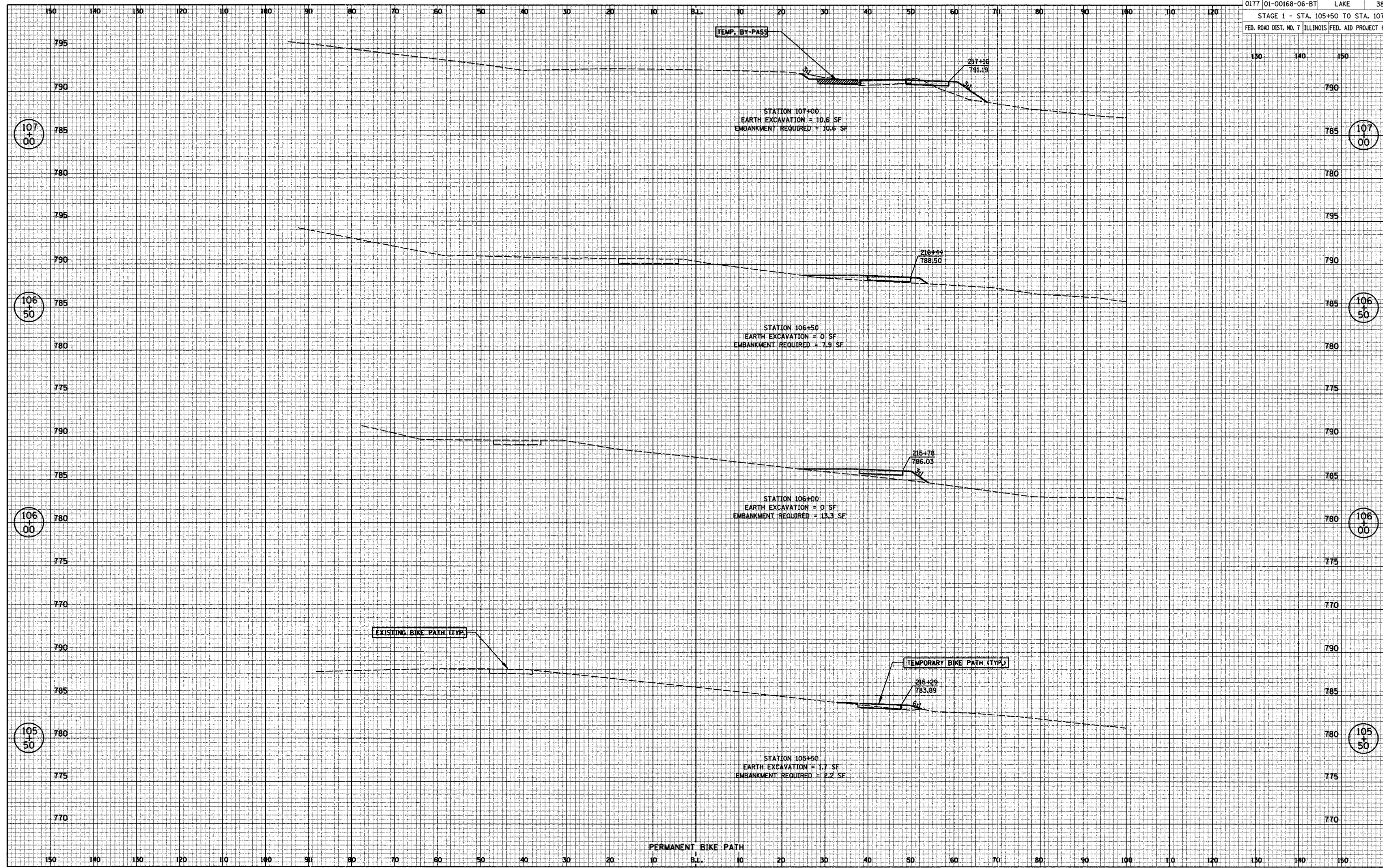
- GENERAL NOTES:**
1. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A SAFE MANNER AT ALL TIMES AND SHALL COMPLY WITH ALL APPLICABLE GOVERNING REGULATIONS, INCLUDING BUT NOT LIMITED TO OSHA SAFETY STANDARDS.
 2. BACKFILL MATERIALS SHALL BE PLACED IN LIFTS TWELVE INCHES (12") THICK (LOOSE MEASURE) AND EACH LAYER SHALL BE COMPACTED BY RAMMING OR TAMPING TO ACHIEVE REQUIRED COMPACTION.

SANITARY SEWER DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MONVILLE ROAD BIKE PATH UNDERPASS
DETAILS
 CHECKED BY: D.J.K.
 DATE: 10/18/06
 NOT TO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	26
STAGE 1 - STA. 105+50 TO STA. 107+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				



STAGE 1 CROSS SECTIONS

FINAL SURVEY NOTE BOOK No. _____

DATE _____

BY _____

SURVEYED _____

PLOTTED _____

CHECKED _____

AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK No. _____

DATE _____

BY _____

SURVEYED _____

PLOTTED _____

CHECKED _____

AREAS CHECKED _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	27
STAGE 1 - STA. 107+65 TO STA. 109+50				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

FINAL SURVEY NOTE BOOK No. _____

DATE _____

BY _____

SURVEYED _____

PLOTTED _____

CHECKED _____

AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK No. _____

DATE _____

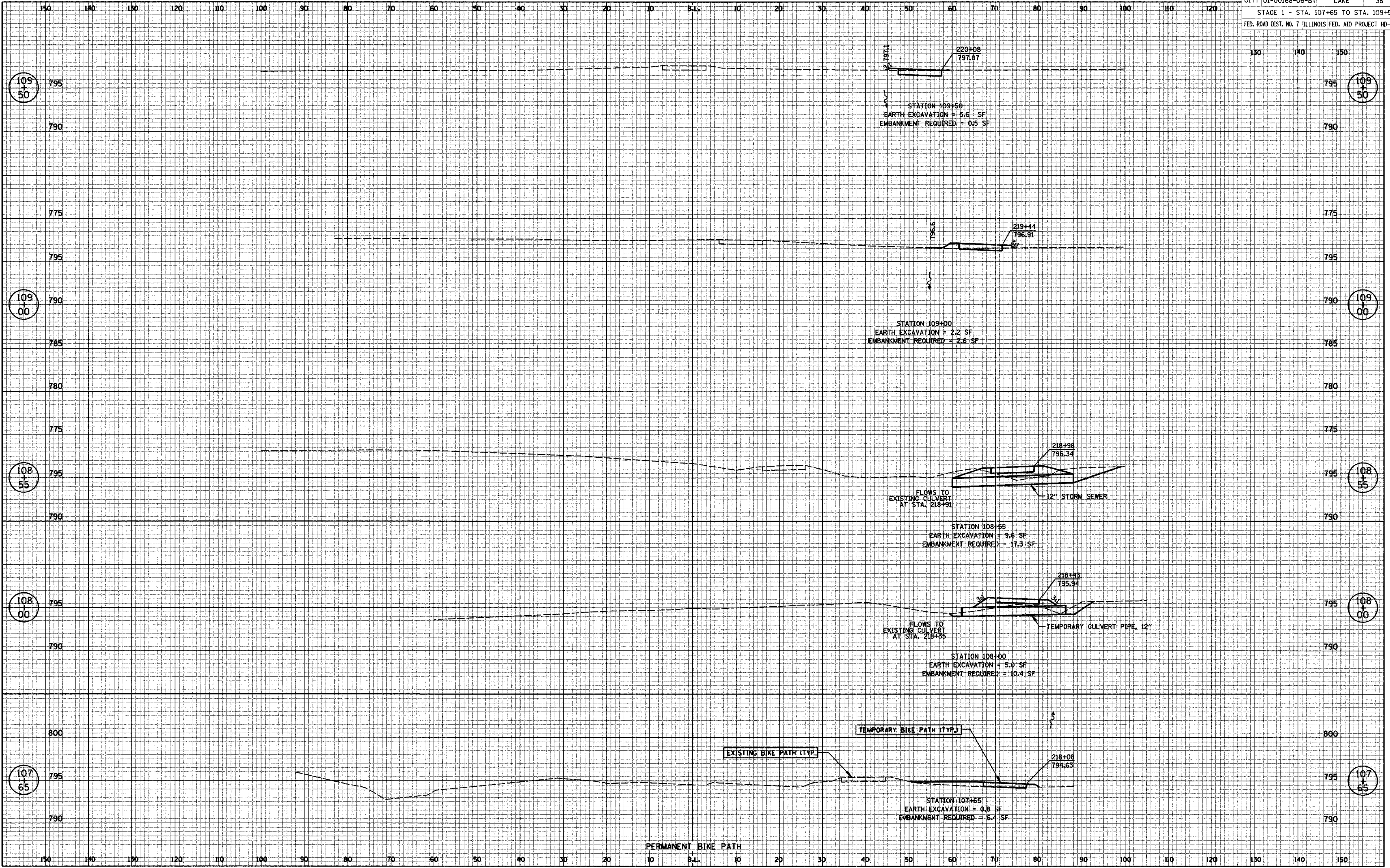
BY _____

SURVEYED _____

PLOTTED _____

CHECKED _____

AREAS CHECKED _____



STAGE 1 CROSS SECTIONS

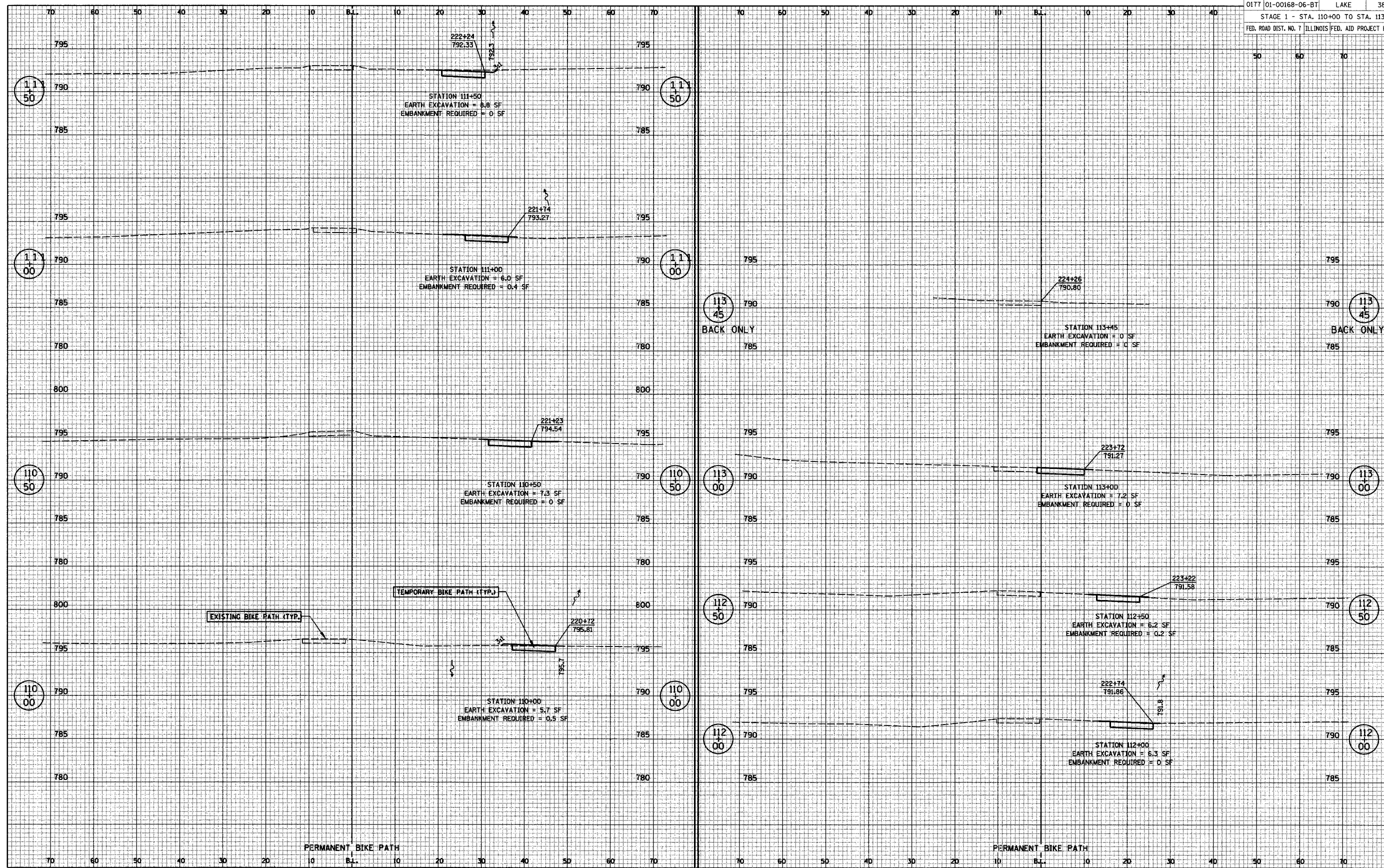
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	28
STAGE 1 - STA. 110+00 TO STA. 113+45				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003(695)				

FINAL SURVEY NOTE BOOK No. _____

SURVEYED	DATE
PLOTTED	
AREAS CHECKED	

ORIGINAL SURVEY NOTE BOOK No. _____

SURVEYED	DATE
PLOTTED	
AREAS CHECKED	



STAGE 1 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	29
STAGE 2 - STA. 100+00 TO STA. 105+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

FINAL SURVEY NOTE BOOK No. _____

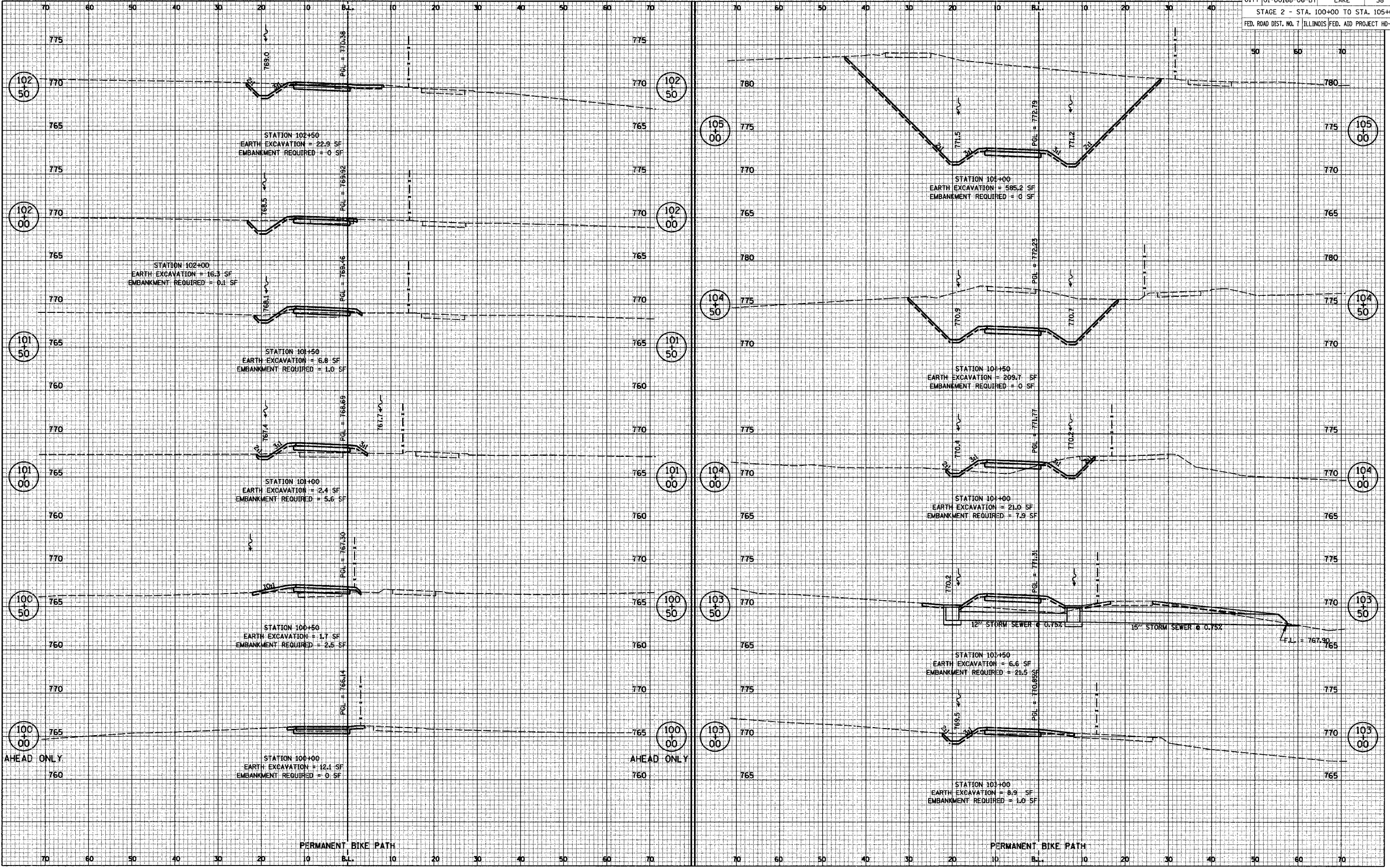
DATE	BY

SURVEYED _____
 PLOTTED _____
 AREAS _____
 AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK No. _____

DATE	BY

SURVEYED _____
 PLOTTED _____
 AREAS _____
 AREAS CHECKED _____

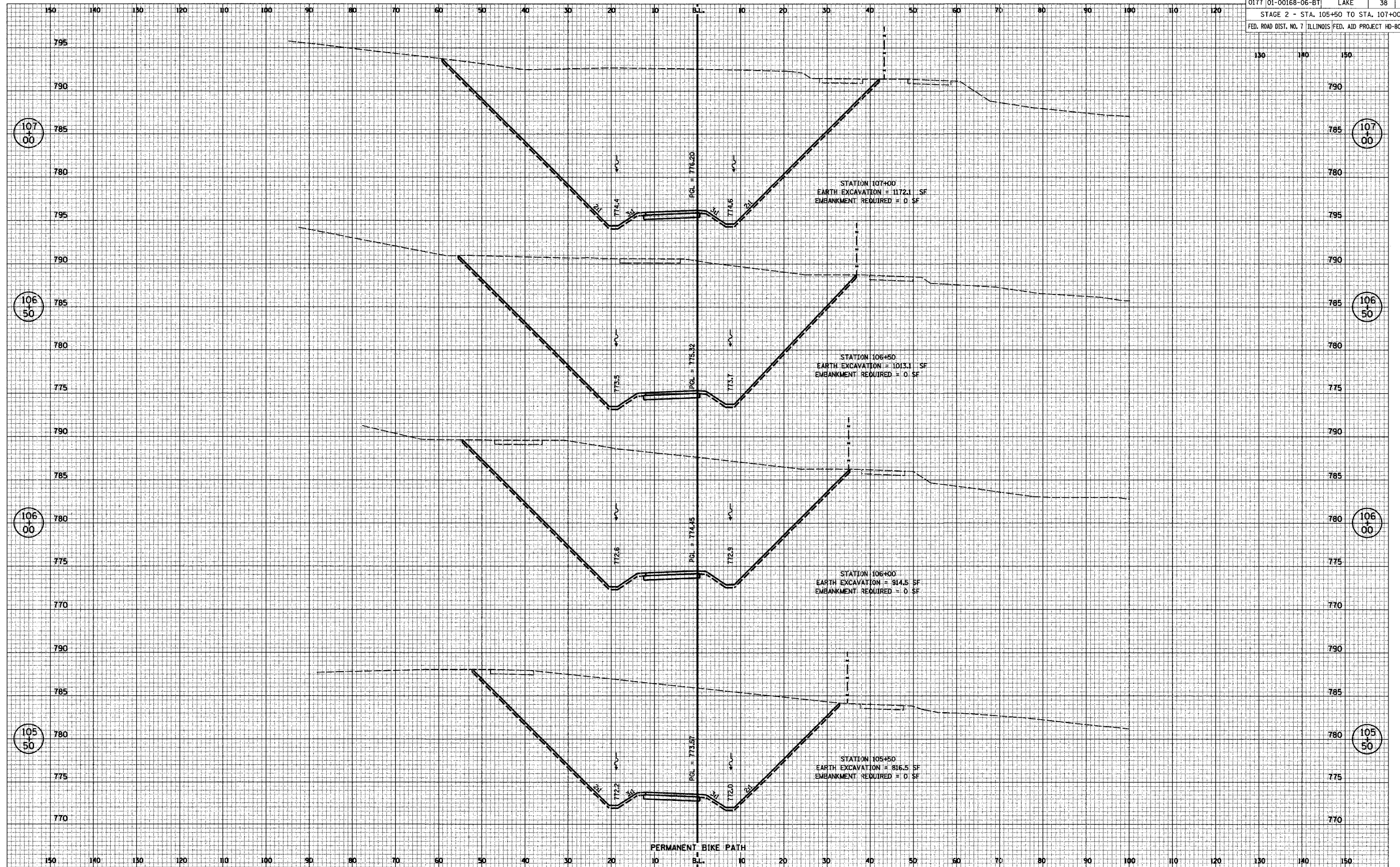


STAGE 2 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	30
STAGE 2 - STA. 105+50 TO STA. 107+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

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

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



STAGE 2 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	31
STAGE 2 - STA. 107+65 TO STA. 109+50				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

BY _____ DATE _____

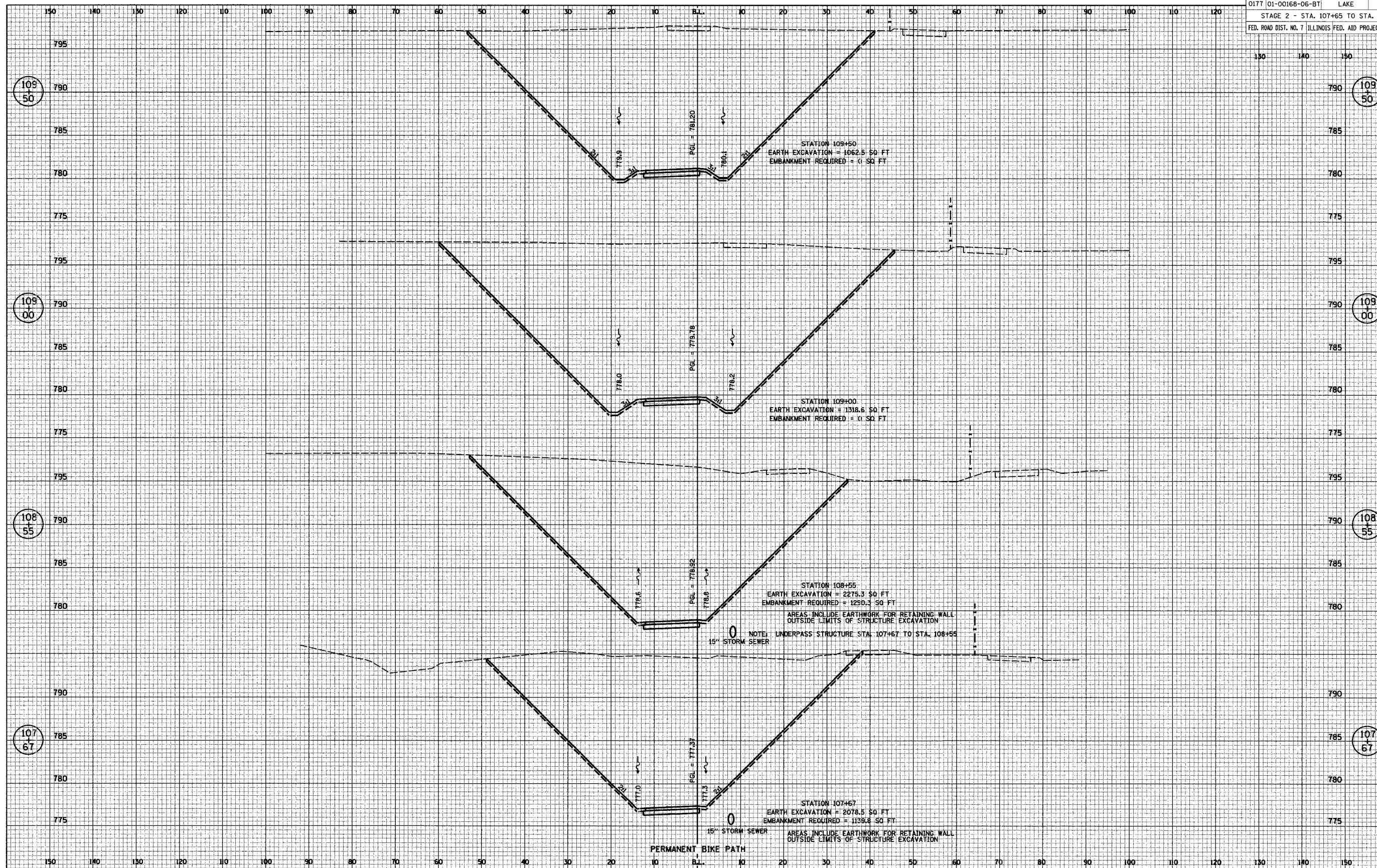
SURVEYED _____
 PLOTTED _____
 FINISHED _____
 AREAS CHECKED _____

FINAL SURVEY NOTE BOOK No. _____

BY _____ DATE _____

SURVEYED _____
 PLOTTED _____
 FINISHED _____
 AREAS CHECKED _____

ORIGINAL SURVEY NOTE BOOK No. _____

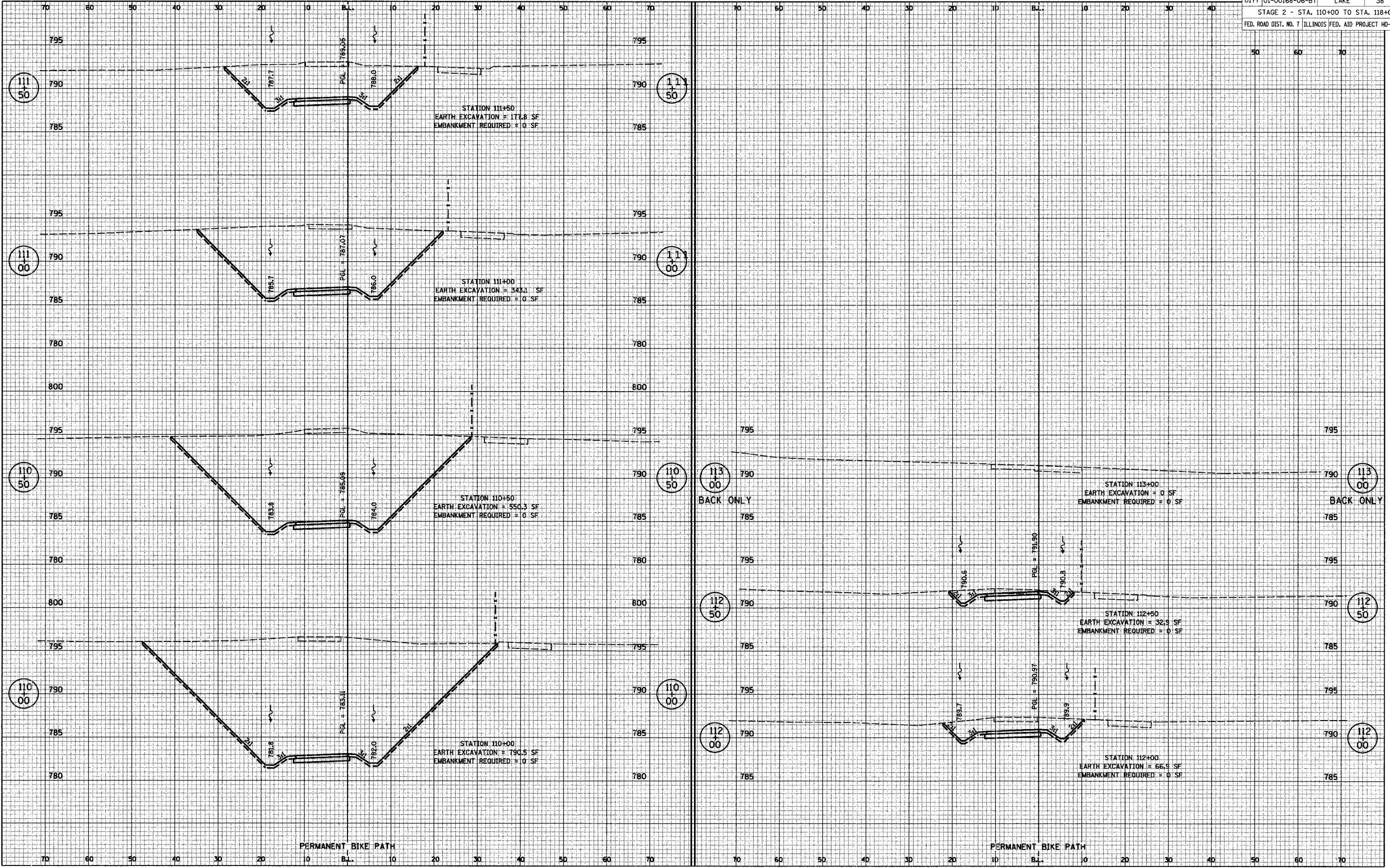


STAGE 2 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	32
STAGE 2 - STA. 110+00 TO STA. 118+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-80036953				

DATE	
BY	
SURVEYED	
PLOTTED	
NOTES	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTES	
AREAS	
CHECKED	
NO.	

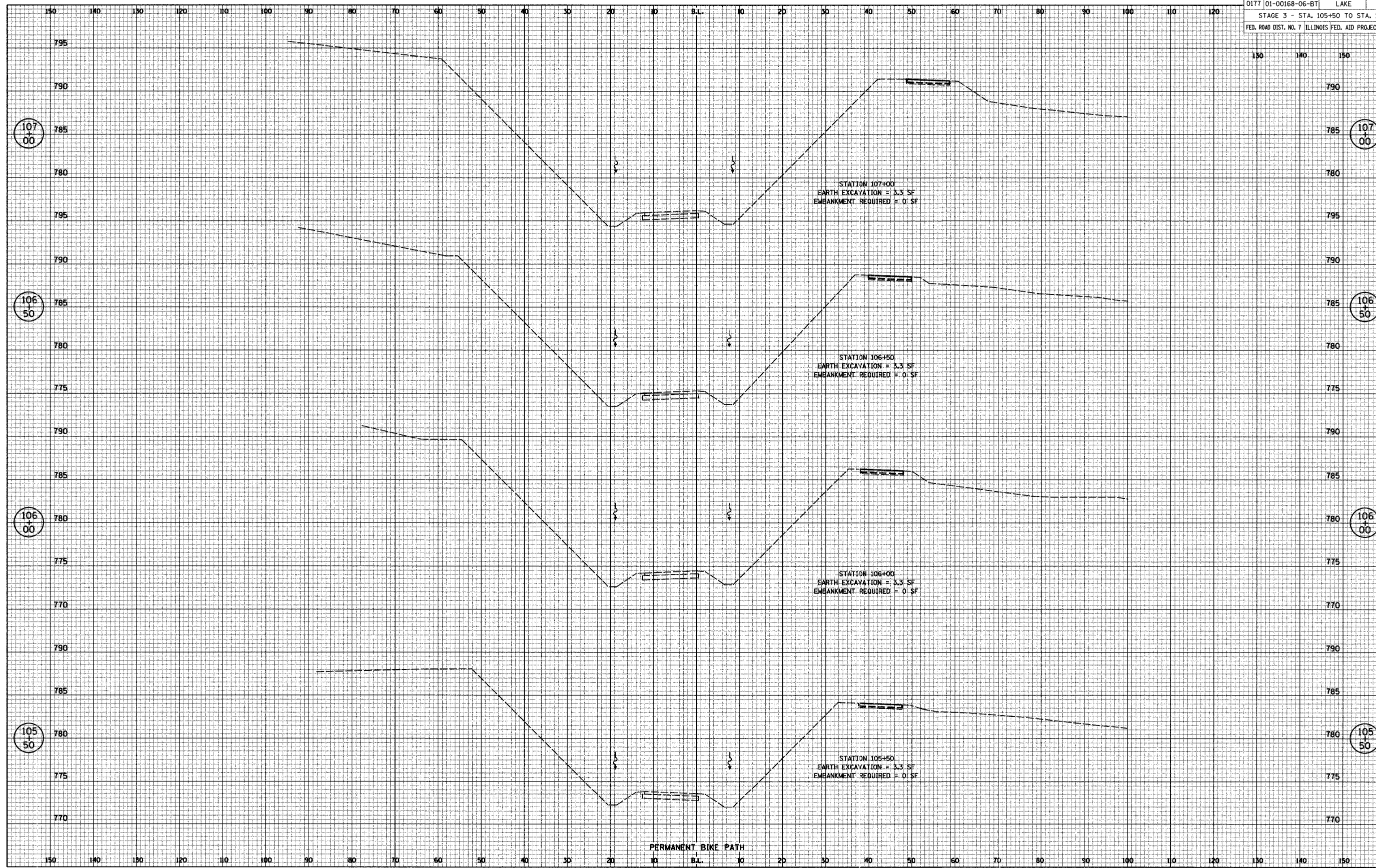


STAGE 2 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	34
STAGE 3 - STA. 105+50 TO STA. 107+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

BY	DATE
SURVEYED _____	
PLOTTED _____	
AREAS _____	
AREAS CHECKED _____	
FINAL SURVEY NOTE BOOK No. _____	

BY	DATE
SURVEYED _____	
PLOTTED _____	
AREAS _____	
AREAS CHECKED _____	
ORIGINAL SURVEY NOTE BOOK No. _____	



STAGE 3 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	35
STAGE 3 - STA. 107+65 TO STA. 109+50				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

BY	DATE

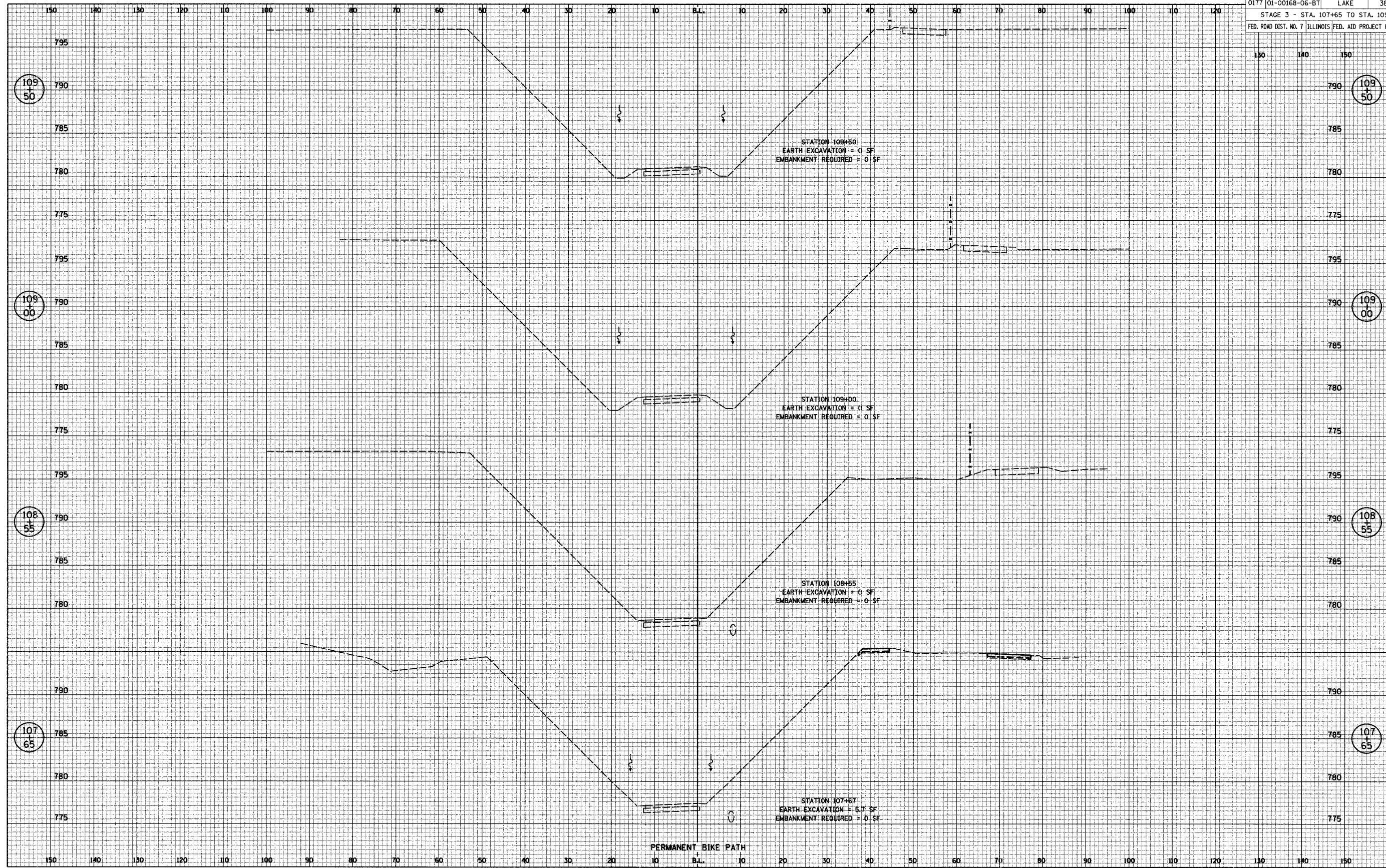
FINAL SURVEY NOTE BOOK No. _____

SURVEYED _____
 PLOTTED _____
 AREAS _____
 AREAS CHECKED _____

BY	DATE

ORIGINAL SURVEY NOTE BOOK No. _____

SURVEYED _____
 PLOTTED _____
 AREAS _____
 AREAS CHECKED _____



STAGE 3 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	36
STAGE 3 - STA. 110+00 TO STA. 113+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

DATE _____ BY _____

FINAL SURVEY NOTE BOOK No. _____

SURVEYED _____ PLOTTED _____

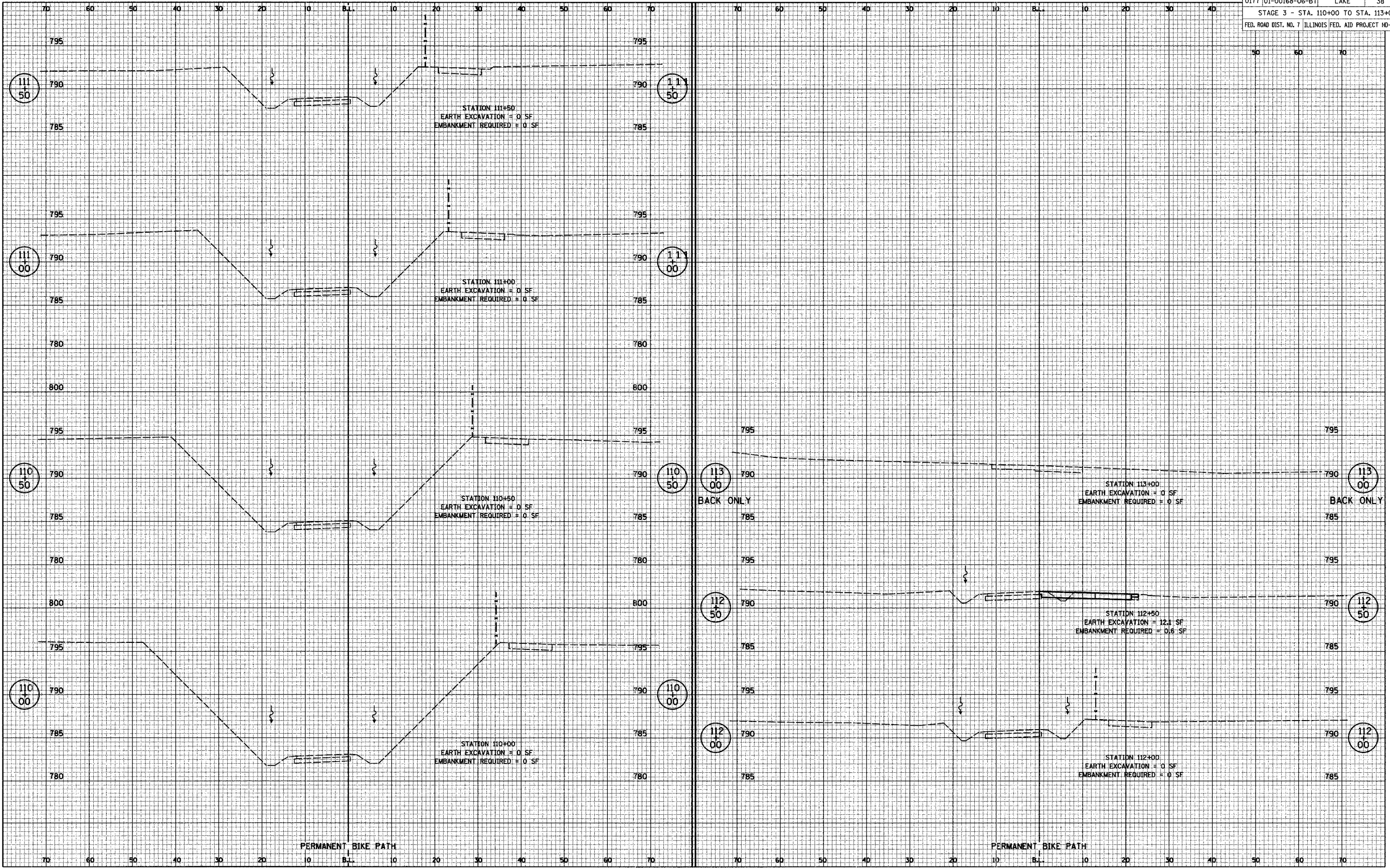
AREAS CHECKED _____

DATE _____ BY _____

ORIGINAL SURVEY NOTE BOOK No. _____

SURVEYED _____ PLOTTED _____

AREAS CHECKED _____



STAGE 3 CROSS SECTIONS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0177	01-00168-06-BT	LAKE	38	37
MONAVILLE ROAD - STA. 20+25 TO STA. 21+00				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT HD-8003695				

DATE	
BY	
SURVEYED	
PLOTTED	
REVISIONS	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK No.	

DATE	
BY	
SURVEYED	
PLOTTED	
REVISIONS	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK No.	

