

07-31-2020 LETTING ITEM 007

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

## FAP RTE 0344 (US ROUTE 45) US ROUTE 45 UNDERPASS MILLENNIUM TRAIL - FOREST PRESERVE TRAIL SECTION 16-F3000-05-BT PROJECT NO. E30B(007) LAKE COUNTY C-91-181-20

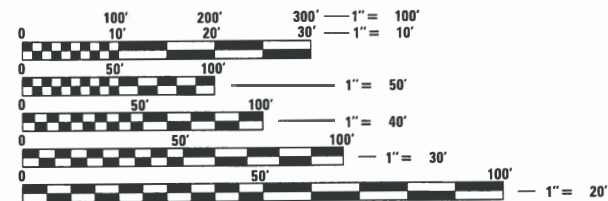
FOR INDEX OF SHEETS AND LIST OF STATE STANDARDS, SEE SHEET NO. 2

PROJECT LOCATED IN ANTIOCH TOWNSHIP.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	1
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

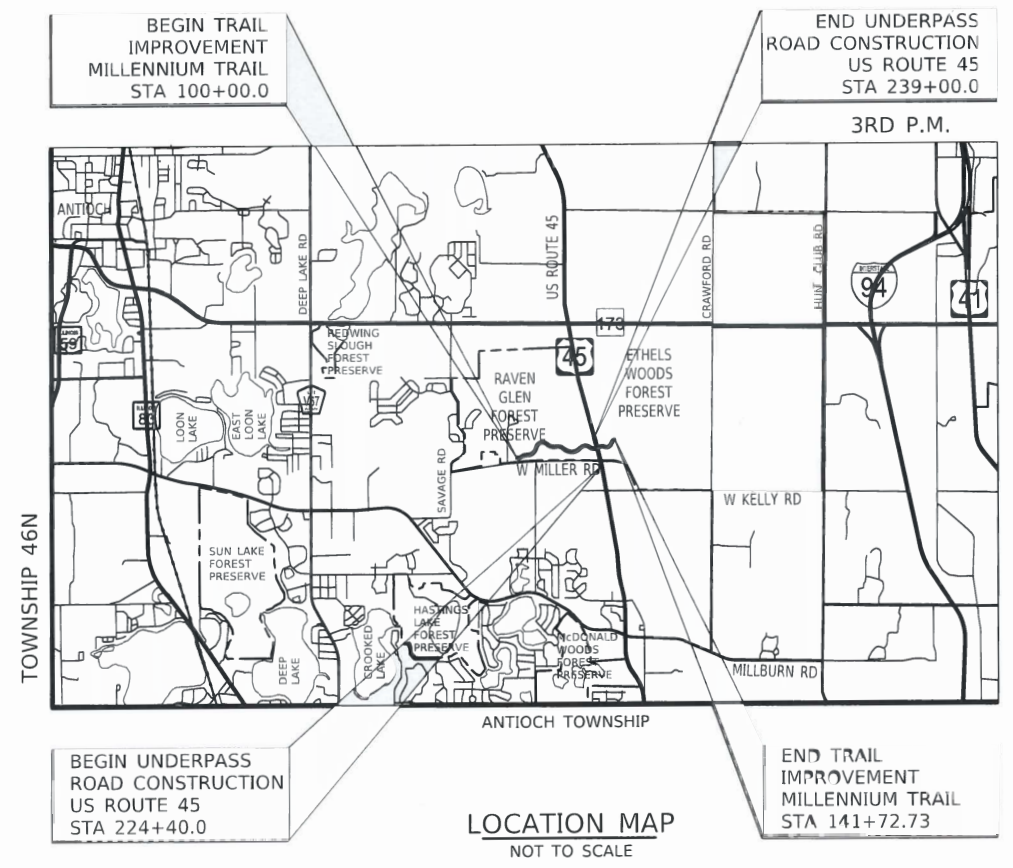


**US ROUTE 45**  
 DESIGN DESIGNATION = PRINCIPAL ARTERIAL  
 POSTED SPEED = 55 MPH  
 2018 ADT = 7,000 VPD  
 2040 ADT = 12,800 VPD



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



**ROADWAY LENGTH:**  
 US ROUTE 45 (STA 224+40.0 TO 239+00.00) - 1,460.0 FT (0.277 MI)

**TRAIL LENGTH:**  
 MILLENNIUM TRAIL (STA 100+00.0 TO 141+72.73) - 4,172.7 FT (0.790 MI)  
 PARK TRAIL (STA 300+00.0 TO 301+40.30) - 140.30 FT (0.026 MI)  
 TOTAL TRAIL LENGTH - 4,313 FT (0.816 MI)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Approved: 4/20/2020  
*[Signature]*  
 Lake County Forest Preserve District

Passed: 4-30-2020  
*[Signature]*  
 District One Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: 4-30-2020  
*[Signature]*  
 Regional Engineer

APPLIES TO SHEETS 59-71

*[Signature]*  
 REGISTERED S.E., STATE OF ILLINOIS EXPIRES 11/30/2020

STATE OF ILLINOIS  
 REGISTERED PROFESSIONAL ENGINEER  
 082-084574

APPLIES TO SHEETS 1-55; 72-146

*[Signature]*  
 REGISTERED P.E., STATE OF ILLINOIS EXPIRES 11/30/2021

REGISTERED PROFESSIONAL ENGINEER  
 PETRO KRIVETS  
 082-084574

APPLIES TO SHEETS 56-58

*[Signature]*  
 REGISTERED P.E., STATE OF ILLINOIS EXPIRES 11/30/2021

REGISTERED PROFESSIONAL ENGINEER  
 DEREK N. MALL  
 082-051588

PLANS PREPARED BY:  
  
 Two Pierce Place, Suite 1400 - Itasca, Illinois 60143  
 Tel: 630.773.3900 - Fax: 630.773.3975  
 www.qvjtechinc.com

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL

CONTRACT NO. 61G65

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375mm) THRU 84" (2100mm) DIA.
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS
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701301-04	LANE CLOSURE, 2L-2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L,2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEED 45 MPH OR MORE
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
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701901-08	TRAFFIC CONTROL DEVICES
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**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS") ADOPTED APRIL 1, 2016, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2020, THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS", AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS". ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT STANDARD.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IDOT DISTRICT 1 TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, AND THE LAKE COUNTY FOREST PRESERVE DISTRICT (847) 968-3277 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET TO THE SATISFACTION OF THE ENGINEER.
- 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 LAKE COUNTY FOREST PRESERVE DISTRICT, AN AUTHORIZED SURVEYOR, OR ANY AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER IN COORDINATION WITH THE OWNER SHALL BE FINAL AND CONCLUSIVE.
- ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL KEEP A SET OF "APPROVED" CONSTRUCTION PLANS ON THE JOB SITE, AND SHALL MAINTAIN (AS INDICATED HEREIN AND ELSEWHERE WITHIN THESE CONSTRUCTION NOTES, SPECIFICATIONS, AND PLANS) LEGIBLE RECORD ON SAID PLANS OF ANY FIELD TILE ENCOUNTERED, ANY MODIFICATIONS/ALTERATIONS TO ALIGNMENT AND/OR TO PLANS AND SPECIFICATIONS OF PROPOSED IMPROVEMENTS, ETC. UPON COMPLETION OF THE CONTRACTORS' WORK, SAID PLANS AND INFORMATION SHALL BE PROVIDED TO THE ENGINEER.
- LOCATION, SIZE AND SHAPE OF ALL HAUL ROADS, STAGING AREAS, BORROW AREAS AND CONSTRUCTION ROUTES SHALL BE DETERMINED IN FIELD AS COORDINATED WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- WHEN REMOVING PAVEMENT OR ANY OTHER STRUCTURE, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO ENSURE THAT THERE WILL BE NO DAMAGE TO UNDERGROUND PUBLIC OR PRIVATE UTILITIES. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL CONCRETE BREAKER BE ALLOWED.
- THE THICKNESSES OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE BINDER OR BASE UPON WHICH THE HOT-MIX ASPHALT MATERIALS ARE PLACED.
- ALL TEMPORARY CONSTRUCTION FENCE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE PROPOSED LINES AND GRADES SHOWN ON THE CONSTRUCTION PLANS REPRESENT FINISHED GRADE ELEVATIONS. LINE AND GRADE STAKES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR OTHER ACCEPTABLE METHOD.
- SUBGRADE SHALL BE PREPARED PER SPECIFICATIONS AND COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) BASED ON STANDARD PROCTOR IN ACCORDANCE WITH ASTM D-698 AND THE STANDARD SPECIFICATIONS.
- ALL PROOF ROLLING AND FIELD TESTING SHALL BE DONE IN THE PRESENCE OF THE ENGINEER.
- WHEN PROOF ROLLING OF SUBGRADE REVEALS UNSTABLE AREAS OR UNSUITABLE SOIL IS ENCOUNTERED IT SHALL BE UNDERCUT, AND REMOVED AS DIRECTED BY THE SOILS ENGINEER. IF THE SOILS ENGINEER IS REQUIRED TO RETEST AN AREA MORE THAN ONE TIME IT WILL BE AT THE CONTRACTOR'S EXPENSE.

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

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

**STORM SEWERS, STRUCTURES, AND UTILITIES**

17. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
18. 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, ARTICLES 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.
19. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
20. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR ON -SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
21. CULVERTS SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) PIPE IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE CULVERTS SHALL BE OF DIAMETERS AND LENGTHS SPECIFIED ON PLANS. ALL CULVERTS SHALL BE INSTALLED SO THERE IS EQUAL DISTANCE FROM THE TRAIL CENTER LINE TO THE END OF THE CULVERT ON BOTH SIDES OR AS SPECIFIED ON THE PLANS.
22. THE CONTRACTOR SHALL CONFIRM ALL EXISTING STORM SEWER PIPE SIZES AND INVERTS PRIOR TO ORDERING STRUCTURES. ANY MODIFICATION OF STRUCTURES DUE TO THE FAILURE OF THE CONTRACTOR TO PERFORM THIS TASK MAY LEAD TO THE REJECTION OF THE STRUCTURE IN THE FIELD.
23. STATIONS, OFFSETS, AND INVERT ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE CENTERLINE OF THE OUTLET END OF THE FLARED END SECTION. THE FLARED END SECTION SHALL BE INSTALLED AT THE SAME SLOPE AS THE OULTET PIPE.

**LANDSCAPING**

24. THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE. AT NO TIEM SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFIED BY THE DIRECTION OF THE ENGINEER.

**SPECIAL PROJECT NOTES**

25. NO HEAVY EQUIPMENT WILL BE ALLOWED ON COMPLETED UNDERPASS.
26. THE CONTRACTOR SHALL PROVIDE AS-BUILT DATA TO DOCUMENT THE FLOOD PLAIN CUT & FILL. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO COLLECT DATA AND DOCUMENT WITH PLANS AND CROSS-SECTIONS THE RELATED FLOODPLAIN IMPACTS (FILL) TO THE LAKE COUNTY STORMWATER MANAGEMENT COMMISSION.
27. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSUITABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

**SURVEY**

28. BEARINGS ARE REFERENCED TO THE ILLINOIS COORDINATE SYSTEM NAD 83(2011) EAST ZONE AT FOUND NATIONAL GEODETIC SURVEY MONUMENTS LAK45 1A, P.I.D. AJ2896, PUBLISHED COORDINATE VALUES OF N.2,106,661.43- E.1,070,957.85 AND LAK45 1B, P.I.D. AJ2904, PUBLISHED COORDINATE VALUES OF N.2,108,804.42-E.1,070,259.49.
29. BASIS OF ELEVATIONS ELEVATIONS ARE BASED ON THE FOUND NATIONAL GEODETIC SURVEY MONUMENTS LAK45 1A, P.I.D. AJ2896, PUBLISHED NAVD '88 ELEVATION 759.17 AND LAK45 1B, P.I.D. AJ2904, PUBLISHED NAVD '88 ELEVATION 759.25.

**COMMITMENTS**

30. THE CONTRACTOR SHALL COORDINATE WITH WEST SHORE PIPE LINE WHEN LAYING OUT PROPOSED IMPROVEMENTS IN THE FIELD AND PRIOR TO THE BEGINNING OF CONSTRUCTION.

**CONTACTS**

**LAKE COUNTY FOREST PRESERVE DISTRICT**

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**NORTH SHORE GAS**

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WAUKEGAN, IL 60085  
jimmy.ly@northshoregasdelivery.com

**WEST SHORE PIPELINE**

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3400 S BADGER DRIVE  
ARLINGTON HEIGHTS, IL 60005  
(847) 878-3428  
womalley@buckeye.com

**ANTIOCH POLICE DEPARTMET**

433 ORCHARD STREET  
ANTIOCH, IL 60002  
(847) 395-8585

**ANTIOCH FIRE DEPARTMENT**

STATION 1  
835 HOLBEK DRIVE  
ANTIOCH, IL 60002  
(847) 395-5511

**ANTIOCH SCHOOL DISTRICT 34**

964 SPAFFORD STREET  
ANTIOCH, IL 60002  
(847) 838-8400

**ANTIOCH COMMUNITY HIGH**

SCHOOL DISTRICT 117  
1625 DEEP LAKE ROAD  
LAKE VILLA, IL 60046  
(847) 395-9001

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

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



Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - PK	REVISED -
DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
INDEX & GENERAL NOTES**

SHEET 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	3
CONTRACT NO. 61G65			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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

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

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED	80% FED	80% FED
				20% LCFPD	20% LCFPD	20% LCFPD
				ROADWAY	BRIDGE	LIGHTING
				0028	0028	0031
^ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	77	77		
^ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	60	60		
	20101000	TEMPORARY FENCE	FOOT	7,983	7,983	
* 20200100	EARTH EXCAVATION	CU YD	47,128	47,128		
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	5,270	5,270	
	20800150	TRENCH BACKFILL	CU YD	58	58	
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	6,000	6,000	
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	28,380	28,380	
^ 25000210	SEEDING, CLASS 2A	ACRE	2.00	2.00		
^ 25000750	MOWING	ACRE	36.00	36.00		
^ 25100125	MULCH, METHOD 3	ACRE	16.00	16.00		
^ 25200200	SUPPLEMENTAL WATERING	UNIT	347	347		
	28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	55	55	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,794	1,794	
	28000305	TEMPORARY DITCH CHECKS	FOOT	630	630	
	28000400	PERIMETER EROSION BARRIER	FOOT	3,027	3,027	

- ^ DENOTES SPECIALTY ITEM
- ^^ DENOTES CONSTRUCTION TYPE CODE 0042
- \* DENOTES SPECIAL PROVISION

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

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED 20% LCFPD	80% FED 20% LCFPD	80% FED 20% LCFPD
				ROADWAY 0028	BRIDGE 0028	LIGHTING 0031
28000510	INLET FILTERS	EACH	15	15		
* 28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	100	100		
28100107	STONE RIPRAP, CLASS A4	SQ YD	70	70		
28200200	FILTER FABRIC	SQ YD	230	230		
* 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	113	113		
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	291	291		
35101700	AGGREGATE BASE COURSE, TYPE B 5"	SQ YD	5,826	5,826		
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1,855	1,855		
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	338	338		
35300200	PORTLAND CEMENT CONCRETE BASE COURSE 7"	SQ YD	271	271		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	5,677	5,677		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,081	2,081		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	26	26		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	138	138		
40604060	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	TON	396	396		
40604062	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	TON	500	500		

- ^ DENOTES SPECIALTY ITEM
- ^^ DENOTES CONSTRUCTION TYPE CODE 0042
- \* DENOTES SPECIAL PROVISION

FINAL SURVEY	DATE
NO. _____	_____
SURVEYED	BY
TEMPERATURE	_____
AREAS	_____
CHECKED	_____

ORIGINAL SURVEY	DATE
NO. _____	_____
SURVEYED	BY
TEMPERATURE	_____
AREAS	_____
CHECKED	_____

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED	80% FED	80% FED
				20% LCFPD	20% LCFPD	20% LCFPD
				ROADWAY	BRIDGE	LIGHTING
				0028	0028	0031
44000100	PAVEMENT REMOVAL	SQ YD	3,248	3,248		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	4,210	4,210		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	340	340		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	2,720	2,720		
50200100	STRUCTURE EXCAVATION	CU YD	5,790		5,790	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	154		154	
50300225	CONCRETE STRUCTURES	CU YD	896.2		896.2	
50300254	RUBBED FINISH	SQ FT	5,455		5,455	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	115,070		115,070	
50800515	BAR SPLICERS	EACH	130		130	
51500100	NAME PLATES	EACH	1		1	
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,698		1,698	
5421D012	PIPE CULVERTS, CLASS D, TYPE 1 12" (TEMPORARY)	FOOT	25	25		
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	6	6		
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	13	13		
* 54261415	CONCRETE END SECTION, STANDARD 542001, 15", 1:4	EACH	2	2		

^ DENOTES SPECIALTY ITEM  
 ^^ DENOTES CONSTRUCTION TYPE CODE 0042  
 \* DENOTES SPECIAL PROVISION

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

DATE	BY	DESIGNED	PK	REVISED	
ORIGINAL SURVEY NOTE BOOK NO.					

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED 20% LCFPD	80% FED 20% LCFPD	80% FED 20% LCFPD
				ROADWAY 0028	BRIDGE 0028	LIGHTING 0031
* 54261424	CONCRETE END SECTION, STANDARD 542001, 24", 1:4	EACH	3	3		
54262712	METAL FLARED END SECTIONS 12"	EACH	8	8		
54262815	METAL FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	4	4		
54262824	METAL FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	4	4		
542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	100	100		
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	48	48		
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	48	48		
542D5470	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	62	62		
542D5479	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	85	85		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	56	56		
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	211	211		
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	442	442		
550A4100	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	6	6		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	1,477		1,477	
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	2,488	2,488		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		

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DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 SUMMARY OF QUANTITIES**

SHEET 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	7
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED 20% LCFPD	80% FED 20% LCFPD	80% FED 20% LCFPD
				ROADWAY 0028	BRIDGE 0028	LIGHTING 0031
^ *	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	527		
^ *	66900530	SOIL DISPOSAL ANALYSIS	EACH	4		
^ *	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1		
^ *	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1		
^ *	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10		
*	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15		
	67100100	MOBILIZATION	LSUM	1		
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	126		
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,560		
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	853		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	279		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	281		
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		
	70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		
^	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,872		
^	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	22		

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
SUMMARY OF QUANTITIES**

SHEET 5 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	8
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT			CONTRACT NO. 61G65	



DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED	80% FED	80% FED
				20% LCFPD	20% LCFPD	20% LCFPD
				ROADWAY	BRIDGE	LIGHTING
				0028	0028	0031
^	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	10,481	10,481	
^	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24	
^	78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	68	68	
^	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	48	48	
*	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	106	106	
^ *	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1
^ *	80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1		1
^	81028170	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1" DIA.	FOOT	100		100
^	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	200		200
^	81200100	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	309		309
^	81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	2		2
^	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,466		1,466
^	81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	210		210
^	82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1		1
^ *	K0026852	PRAIRIE WEED CONTROL	ACRE	15.00	15.00	
^ *	K1004572	PRAIRIE SEEDING (SPECIAL)	ACRE	15.00	15.00	

^ DENOTES SPECIALTY ITEM  
 ^^ DENOTES CONSTRUCTION TYPE CODE 0042  
 \* DENOTES SPECIAL PROVISION

FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
SURVEYED	BY
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CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED 20% LCFFPD	80% FED 20% LCFFPD	80% FED 20% LCFFPD
				ROADWAY 0028	BRIDGE 0028	LIGHTING 0031
^	K1005887	TURF FERTILIZATION (SPECIAL)	TON	1	1	
^^*	K1007905	2,4-D AMINE, DICAMBA AND DRIFT CONTROL AGENT MIXTURE	GALLON	4	4	
*	X0323697	RUSTIC RAIL FENCE REMOVAL	FOOT	204	204	
*	X0324079	EXISTING FIELD TILE REMOVAL	FOOT	802	802	
*	X0324840	DISKING	ACRE	15.00	15.00	
*	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	4,812	4,812	
*	X0426200	DEWATERING	LSUM	1	1	
*	X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	371	371	
*	X1700034	FORM LINER TEXTURED SURFACE, SPECIAL	SQ FT	3,638	3,638	
*	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	154	154	
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100	
^*	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.25	1.25	
^*	X2501100	SEEDING, CLASS 3 (SPECIAL)	ACRE	15.00	15.00	
^*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	8,700	8,700	
*	X2800302	TEMPORARY DITCH CHECKS (SPECIAL)	FOOT	70	70	
*	X2810108	STONE RIPRAP, CLASS A4 (SPECIAL)	SQ YD	160	160	

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

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS		
				80% FED	80% FED	80% FED
				20% LCFPD	20% LCFPD	20% LCFPD
				ROADWAY	BRIDGE	LIGHTING
				0028	0028	0031
* X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2		
* X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	2	2		
* X5030290	STAINING CONCRETE STRUCTURES	SQ FT	3,638		3,638	
^ * X5090850	ORNAMENTAL RAILING	FOOT	200		200	
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
* X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	68	68		
^ * X8211000	UNDERPASS LUMINAIRE (SPECIAL)	EACH	14			14
* XX005968	TURBIDITY CURTAIN	SQ YD	102	102		
* XX006658	FLOCCULATION LOGS	EACH	10	10		
* XX006659	FLOCCULATION POWDER	POUND	20	20		
* XX006821	CONCRETE TRUCK WASHOUT	LSUM	1	1		
* XX007518	OBSERVATION STRUCTURE (EXISTING DRAIN TILE)	EACH	20	20		
* XX008310	AGGREGATE SURFACE COURSE, TYPE B 3" (SPECIAL)	SQ YD	3,304	3,304		
* Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	206	206		
* Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
* Z0019598	DUST CONTROL, SPECIAL	GALLON	1,000	1,000		

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

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

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ITEP FUNDS	ITEP FUNDS	ITEP FUNDS
				80% FED 20% LCFPD	80% FED 20% LCFPD	80% FED 20% LCFPD
				ROADWAY	BRIDGE	LIGHTING
				0028	0028	0031
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52		
^ * Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8			8
* Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	1,460	1,460		
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	792		792	
* Z0062456	TEMPORARY PAVEMENT	SQ YD	2,978	2,978		
^^ * Z0076600	TRAINEES	HOUR	500	500		
^^ * Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

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 DEPARTMENT OF TRANSPORTATION**

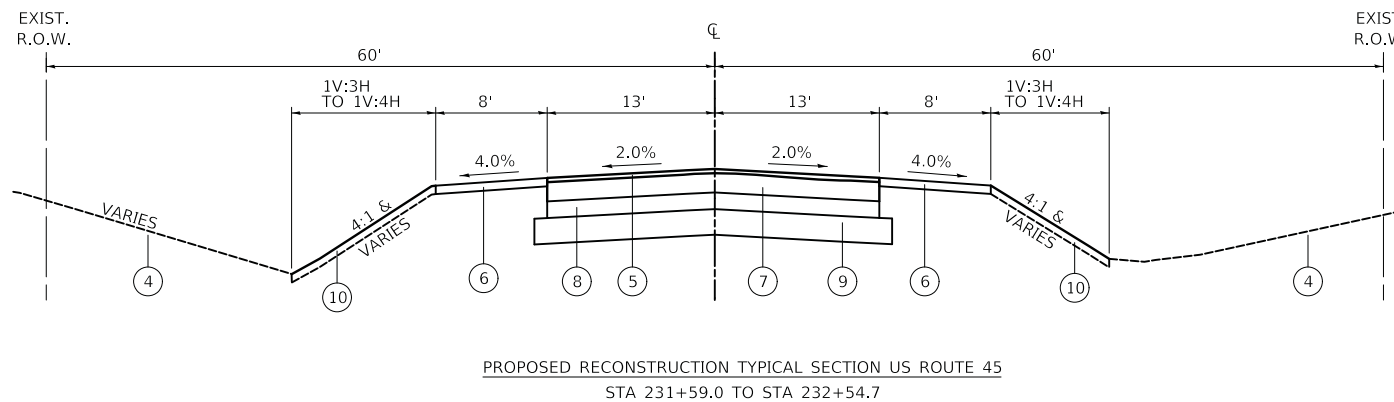
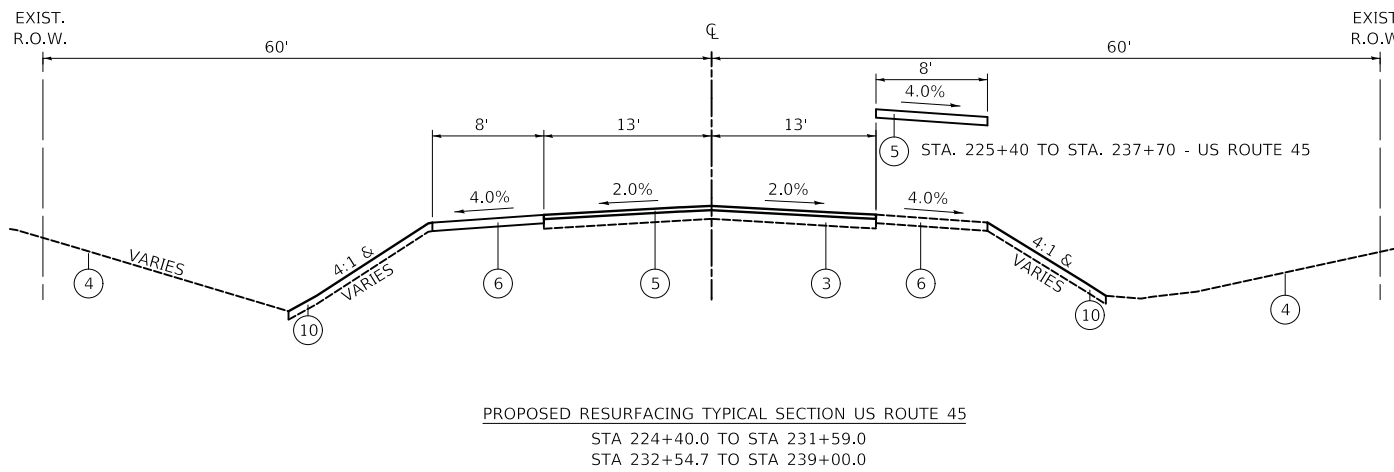
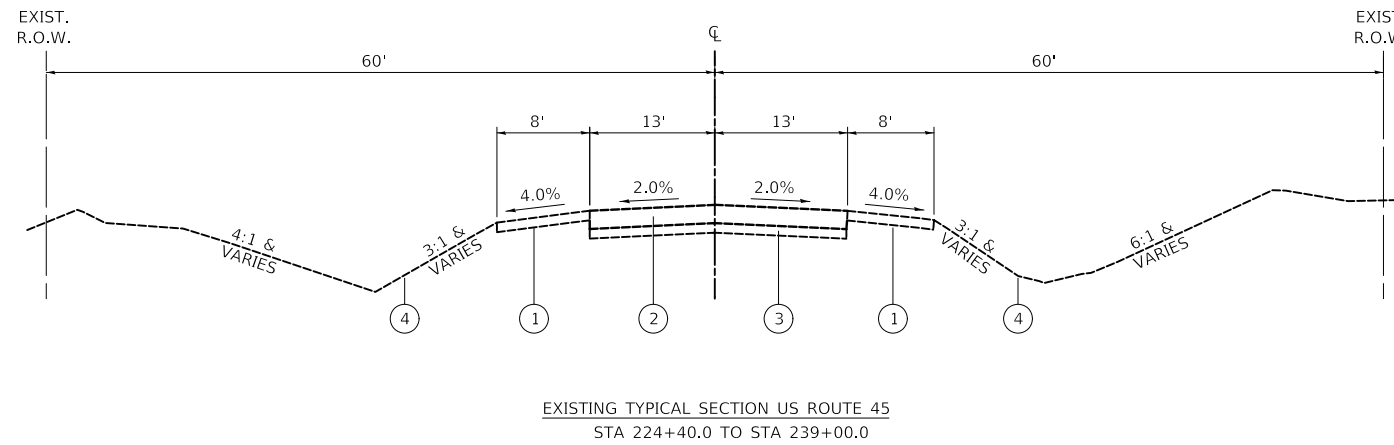
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 SUMMARY OF QUANTITIES**

SHEET 9 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	12
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT			CONTRACT NO. 61G65	

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NOTE BOOK	
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**LEGEND**

- ① EXISTING AGGREGATE SHOULDER, TYPE B, 4"
- ② EXISTING HOT-MIX ASPHALT PAVEMENT, THICKNESS VARIES FROM 10-3/4" TO 11"
- ③ EXISTING PORTLAND CEMENT CONCRETE, THICKNESS VARIES FROM 6" TO 7"
- ④ EXISTING GROUND
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- ⑥ PROPOSED AGGREGATE SHOULDER, TYPE B, 6"
- ⑦ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 9"
- ⑧ PROPOSED PORTLAND CEMENT CONCRETE BASE COURSE 7"
- ⑨ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑩ SEEDING, CL 2A  
TOPSOIL EXCAVATION AND PLACEMENT, 4"

**NOTE:**

- 1. APPLY LONGITUDINAL JOINT SEALANT UNDER THE SURFACE LIFT AT THE PAVED LANE LINES.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
<b>PAVEMENT RECONSTRUCTION (US ROUTE 45)</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 2"	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 9"	4% @ 70 Gyr.
<b>PAVEMENT RESURFACING (US ROUTE 45)</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70; 2"	4% @ 70 Gyr.
<b>DRIVEWAYS</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2-1/2"	4% @ 50 Gyr.
<b>BIKE PATH PAVEMENT (MILLENNIUM TRAIL)</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 3"	4% @ 50 Gyr.
<b>TEMPORARY PAVEMENT (US ROUTE 45)</b>	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 8"	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SQ YD/ IN. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



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**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
TYPICAL SECTIONS**

SHEET 1 OF 2 SHEETS STA. TO STA.

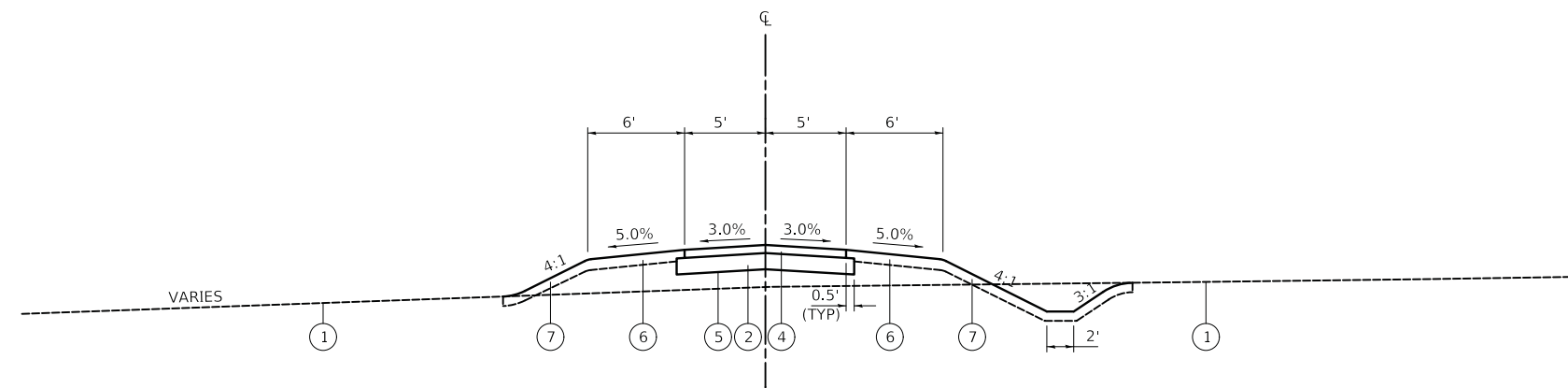
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	13
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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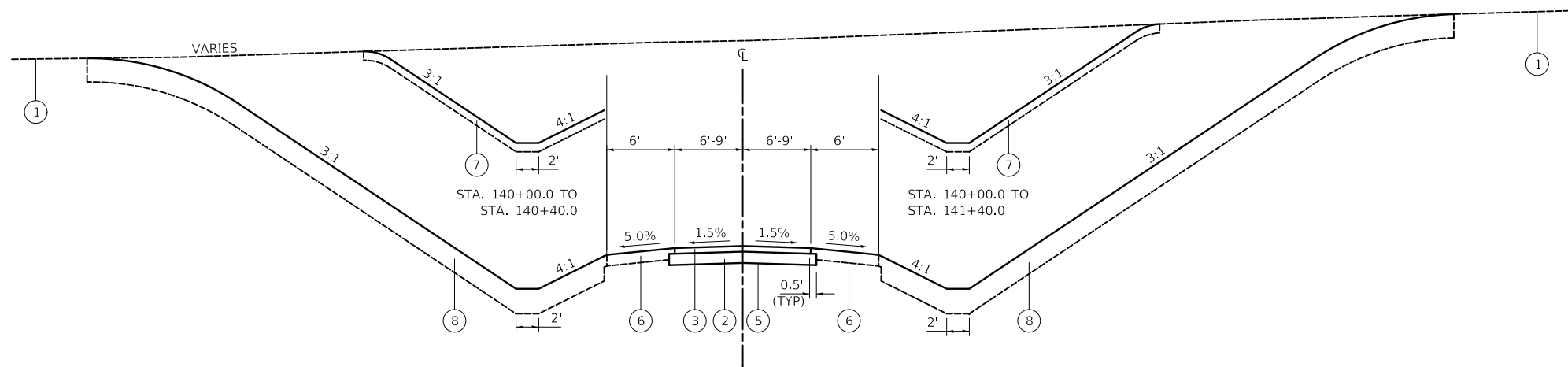
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NOTE BOOK	
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**LEGEND**

- ① EXISTING GROUND
- ② AGGREGATE BASE COURSE, TYPE B, 5"
- ③ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 3"
- ④ AGGREGATE SURFACE COURSE, TYPE B, 3" (SPECIAL)
- ⑤ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AS NEEDED)
- ⑥ 6' MOWN GRASS SHOULDER SEEDING, CL 2 (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT, 4"
- ⑦ PRAIRIE SEEDING (SPECIAL)  
SEE LANDSCAPING PLANS  
TOPSOIL EXCAVATION AND PLACEMENT, 4"
- ⑧ PRAIRIE SEEDING (SPECIAL)  
SEE LANDSCAPING PLANS  
TOPSOIL EXCAVATION AND PLACEMENT, 15"



PROPOSED AGGREGATE TYPICAL SECTION MILLENNIUM TRAIL  
 STA 100+00.0 TO STA 128+00.0  
 STA 140+40.0 TO STA 141+72.73



PROPOSED HOT-MIX ASPHALT TYPICAL SECTION MILLENNIUM TRAIL  
 STA 128+00.0 TO STA 140+40.0

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AREAS CHECKED	
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SCHEDULE OF EARTHWORK QUANTITIES (BREAKDOWN)								
STATION	DISTANCE	EARTH EXCAVATION (CUT)	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)	
Millennium Trail								
100+00	50	22	13	11	33	559	1,650	
100+50	50	0.34	53	7	34	334	1,675	
101+00	1.35	13	14	23	15	31	20	
101+01	48.65	33	16	38	10	1,824	486	
101+50	50	42	4	36	6	1,800	275	
102+00	50	30	7	22	13	1,100	625	
102+50	50	14	18	10	27	475	1,350	
103+00	50	5	36	6	34	275	1,700	
103+50	50	6	32	17	19	850	925	
104+00	50	28	5	33	5	1,650	225	
104+50	50	38	4	26	14	1,275	700	
105+00	50	13	24	14	22	700	1,075	
105+50	50	15	19	19	14	925	700	
106+00	50	22	9	20	10	975	475	
106+50	50	17	10	16	11	800	525	
107+00	50	15	11	15	11	725	525	
107+50	50	14	10	14	12	675	575	
108+00	50	13	13	13	14	625	675	
108+50	50	12	14	13	13	650	650	
109+00	50	14	12	14	13	700	650	
109+50	50	14	14	13	18	625	875	
110+00	16.69	11	21	14	22	234	359	
110+17	33.31	17	22	22	15	733	500	
110+50	50	27	8	27	8	1,350	375	
111+00	50	27	7	33	22	1,650	1,075	
111+50	50	39	36	33	44	1,650	2,200	
112+00	50	27	52	21	85	1,025	4,250	
112+50	50	14	118	18	140	900	6,975	
113+00	50	22	161	38	171	1,900	8,525	
113+50	50	54	180	36	296	1,775	14,800	

SCHEDULE OF EARTHWORK QUANTITIES (BREAKDOWN) (CONTINUED)								
STATION	DISTANCE	EARTH EXCAVATION (CUT)	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)	
114+00	24.52	17	412	9	522	208	12,799	
114+25	25.48		632	0	533	0	13,581	
114+50	50		434	7	294	350	14,675	
115+00	50	14	153	15	118	750	5,900	
115+50	50	16	83	8	87	400	4,325	
116+00	50		90	0	93	0	4,650	
116+50	50		96	8	67	400	3,325	
117+00	50	16	37	21	21	1,050	1,025	
117+50	50	26	4	19	9	950	450	
118+00	50	12	14	8	23	375	1,125	
118+50	50	3	31	2	42	85	2,100	
119+00	50	0.41	53	1	53	35	2,625	
119+50	50	1	52	3	46	125	2,275	
120+00	50	4	39	4	39	200	1,950	
120+50	50	4	39	4	41	175	2,025	
121+00	50	3	42	2	49	100	2,450	
121+50	4.68	1	56	1	73	3	339	
121+55	45.32	0.30	89	2	69	97	3,104	
122+00	50	4	48	6	45	275	2,250	
122+50	50	7	42	9	37	450	1,825	
123+00	50	11	31	12	32	575	1,600	
123+50	50	12	33	10	36	500	1,800	
124+00	50	8	39	12	27	600	1,325	
124+50	50	16	14	24	14	1,175	675	
125+00	50	31	13	33	9	1,625	450	
125+50	50	34	5	26	10	1,275	500	
126+00	50	17	15	12	22	575	1,100	
126+50	30	6	29	4	52	120	1,560	
126+80	20	2	75	2	55	40	1,090	
127+00	50	2	34	10	21	475	1,025	
127+50		17	7					



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Itasca, Illinois 60143  
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CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
EARTHWORK SCHEDULES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	15
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET 1 OF 5 SHEETS STA. TO STA.

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

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

SCHEDULE OF EARTHWORK QUANTITIES (BREAKDOWN) (CONTINUED)							
STATION	DISTANCE	EARTH EXCAVATION (CUT)	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)
	50			44	39	2,200	1,950
128+00		71	71				
	50			101	65	5,025	3,250
128+50		130	59				
	50			199	49	9,950	2,425
129+00		268	38				
	50			453	25	22,625	1,225
129+50		637	11				
	50			1,125	6	56,225	275
130+00		1,612					
	50			1,438	0	71,875	0
130+50		1,263					
	50			1,298	0	64,875	0
131+00		1,332					
	50			1,400	0	69,975	0
131+50		1,467					
	50			1,547	0	77,350	0
132+00		1,627					
	50			1,567	0	78,350	0
132+50		1,507					
	17			1,478	0	25,118	0
132+67		1,448					
	33			1,485	0	48,989	0
133+00		1,521					
	22			1,330	0	28,755	0
STRUCTURAL EXCAVATION (QUANTIFIED BY STRUCTURES)							
133+22		1,139					
	0			570	0	0	0
133+22				0	0	0	0
				0	0	0	0
134+70				516	0	0	0
	0						
134+70		1,031					
	12			1,263	0	15,282	0
STRUCTURAL EXCAVATION (QUANTIFIED BY STRUCTURES)							
134+82		1,495					
	18			1,495	12	26,453	212
135+00		1,494	24				
	50			1,482	253	74,075	12,650
135+50		1,469	482				
	50			1,431	486	71,525	24,275
136+00		1,392	489				
	50			1,307	478	65,350	23,875
136+50		1,222	466				
	50			1,105	489	55,250	24,450
137+00		988	512				
	50			903	515	45,125	25,725
137+50		817	517				
	50			751	508	37,550	25,375
138+00		685	498				
	50			626	501	31,300	25,050
138+50		567	504				
	50			459	526	22,925	26,275
139+00		350	547				
	50			272	622	13,600	31,100
139+50		194	697				
	50			106	808	5,275	40,375
140+00		17	918				
	50			18	793	900	39,625

SCHEDULE OF EARTHWORK QUANTITIES (BREAKDOWN) (CONTINUED)							
STATION	DISTANCE	EARTH EXCAVATION (CUT)	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)
140+50		19	667				
	50			19	421	925	21,050
141+00		18	175				
	50			27	89	1,350	4,450
141+50		36	3				
	24			34	4	806	95
141+74		32	5				
				16	3	0	0
Total						1,070,780	483,047
Connector Trail							
200+00							
	50			0	0	0	0
200+50							
	50			0	0	0	0
201+00							
	50			17	1	825	50
201+50		33	2				
	50			119	1	5,925	50
202+00		204					
	50			123	0	6,125	0
202+50		41					
	50			21	0	1,025	0
203+00							
	7			0	0	0	0
203+07							
Total						13,900	100
Park Trail							
300+00							
	50			3	1	150	25
300+50		6	1				
	50			3	1	158	25
301+00		0.30	0				
	40			0	1	6	40
301+40			2				
Total						314	90
US Route 45 - Stage 1							
224+00							
	50			0	0	0	0
224+50							
	50			0	0	0	0
225+00							
	50			0	0	0	0
225+50							
	50			0	0	0	0
226+00							
	50			0	0	0	0
226+50							
	50			0	4	0	175
227+00			7				
	50			0	6	0	300
227+50			5				
	50			0	5	0	250
228+00			5				
	50			0	12	0	575
228+50			18				
	50			0	20	0	1,000
229+00			22				
	50			0	22	0	1,075
229+50			21				



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DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
EARTHWORK SCHEDULES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	16
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET 2 OF 5 SHEETS STA. TO STA.



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

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

SCHEDULE OF EARTHWORK QUANTITIES (BREAKDOWN) (CONTINUED)							
STATION	DISTANCE	EARTH EXCAVATION (CUT)	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)
	50			0	31	0	1,525
230+00			40				
	50			0	43	0	2,150
230+50			46				
	50			0	46	0	2,300
231+00			46				
	50			0	46	0	2,300
231+50			46				
	50			0	46	0	2,300
232+00			46				
	50			0	47	0	2,325
232+50			47				
	50			0	31	0	1,550
233+00			15				
	50			0	31	0	1,525
233+50			46				
	50			0	44	0	2,200
234+00			42				
	50			0	38	0	1,875
234+50			33				
	50			0	30	0	1,500
235+00			27				
	50			0	16	0	800
235+50			5				
	50			0	3	0	125
236+00							
	50			0	0	0	0
236+50							
	50			0	4	0	200
237+00			8				
	50			0	8	0	375
237+50			7				
	50			0	4	0	175
238+00							
	50			0	0	0	0
238+50							
	50			0	0	0	0
239+00							
	50			0	0	0	0
239+50							
				0	0	0	0
						Total	0 26,600
US Route 45 - Stage 2							
224+00							
	50			0	3	0	150
224+50			6				
	50			0	6	0	275
225+00			5				
	50			0	4	0	200
225+50			3				
	50			0	4	0	200
226+00			5				
	50			0	7	0	325
226+50			8				
	50			0	9	0	425
227+00			9				
	50			0	9	0	450
227+50			9				
	50			0	20	0	975
228+00			30				
	50			0	31	0	1,550

SCHEDULE OF EARTHWORK QUANTITIES (BREAKDOWN) (CONTINUED)							
STATION	DISTANCE	EARTH EXCAVATION (CUT)	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)	EARTH EXCAVATION	EMBANKMENT (FILL)
(XX+XX)	(FT)	(SQ FT)	(SQ FT)	AVG. (SQ FT)	AVG. (SQ FT)	(CU FT)	(CU FT)
	50			0	27	0	1,350
228+50			32				
	50			0	27	0	1,350
229+00			22				
	50			0	11	0	550
229+50							
	50			0	26	0	1,275
230+00			51				
	50			0	33	0	1,650
230+50			15				
	50			0	38	0	1,875
231+00			60				
	50			0	62	0	3,075
231+50			63				
	50			0	64	0	3,175
232+00			64				
	50			0	63	0	3,150
232+50			62				
	50			0	60	0	2,975
233+00			57				
	50			0	56	0	2,800
233+50			55				
	50			0	56	0	2,800
234+00			57				
	50			0	59	0	2,950
234+50			61				
	50			0	61	0	3,025
235+00			60				
	50			0	59	0	2,925
235+50			57				
	50			0	52	0	2,600
236+00			47				
	50			0	41	0	2,025
236+50			34				
	50			0	32	0	1,575
237+00			29				
	50			0	17	0	850
237+50			5				
	50			0	6	0	300
238+00			7				
	50			0	7	0	350
238+50			7				
	50			0	4	0	175
239+00							
	50			0	0	0	0
239+50							
						Total	0 46,000
US Route 45 - Stage 3							
224+00							
	50			3	0	125	5
224+50		5	0.2				
	50			5	0	250	15
225+00		5	0.4				
	50			4	1	175	35
225+50		2	1				
	50			2	1	75	50
226+00		1	1				
	50			2	1	75	50
226+50		2	1				
	50			3	1	125	50
227+00		3	1				
	50			3	1	150	50



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

SCHEDULE OF EARTHWORK QUANTITIES (SUMMARY)	
	EARTH EXCAVATION (20200100)
	(CU FT)
SUBTOTAL MILLENNIUM TRAIL	1,070,780
SUBTOTAL CONNECTOR TRAIL	13,900
SUBTOTAL PARK TRAIL	314
SUBTOTAL US ROUTE 45 - STAGE I	0
SUBTOTAL US ROUTE 45 - STAGE II	0
SUBTOTAL US ROUTE 45 - STAGE III	68,000
SUBTOTAL WEST BERM	38,795
SUBTOTAL EAST BERM	470
SUBTOTAL UNDERPASS	80,190
PROJECT SUBTOTAL (CU. FT.)	1,272,449
PROJECT TOTAL (CU. YD.)	47,128

**NOTE:**

- ESTIMATE INCLUDES 12 INCHES OF TOPSOIL STRIPPING WITHIN LIMITS OF GRADING AND 4 INCHES BETWEEN THE LIMITS OF GRADING AND THE LIMITS OF RESTORATION.
- THERE IS NO HAUL-OFF OF SUITABLE SOIL ANTICIPATED AND CUT SHOULD BE USED ON SITE AT THE DIRECTION OF THE ENGINEER.
- IF THE TOPSOIL EXCAVATION EXCEEDS THE TOPSOIL PLACEMENT, THE EXCESS TOPSOIL SHALL BE RE-SPREAD ONSITE AT THE DIRECTION OF THE ENGINEER, WHICH SHALL BE PAID FOR AS "TOPSOIL EXCAVATION AND PLACEMENT".



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
EARTHWORK SCHEDULES**

SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	19
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G65	



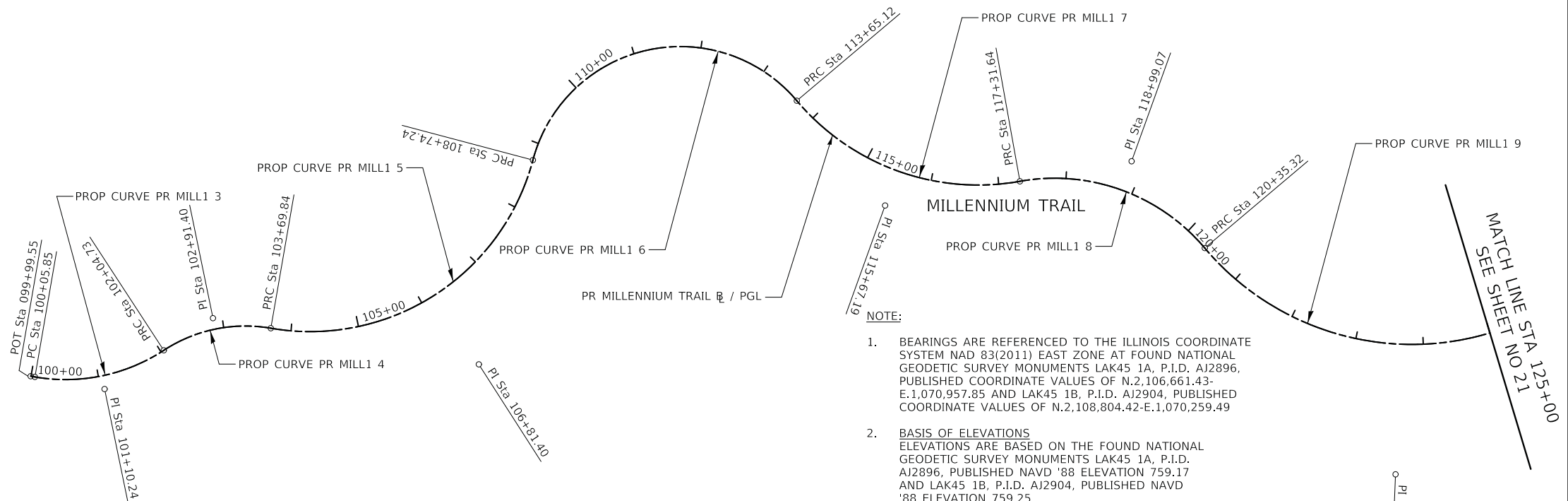
### BENCHMARKS

BM NO.	LOCATION	ELEVATION	DESCRIPTION
TBM #1	STA. 103+48.88, 153.65' RT	767.42	FOUND RAILROAD SPIKE IN POWERPOLE WITH LIGHT IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF BECK ROAD & MILLER ROAD
TBM #2	STA. 116+28.18, 426.49' RT	767.02	RAILROAD SPIKE (SET) IN POWER POLE ON THE SOUTH SIDE OF MILLER ROAD AT 19711 MILLER ROAD, AS SHOWN HEREON
TBM #3	STA. 134+65.63, 163.81' RT	767.76	RAILROAD SPIKE (SET) IN FIRST POWER POLE NORTH OF MILLER ROAD ON THE EAST SIDE OF U.S. ROUTE 45

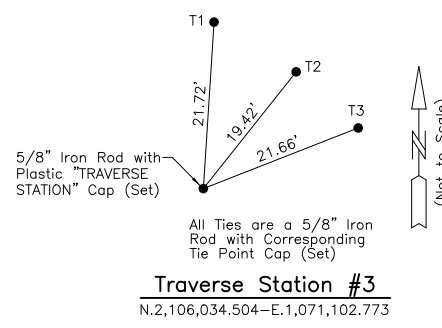
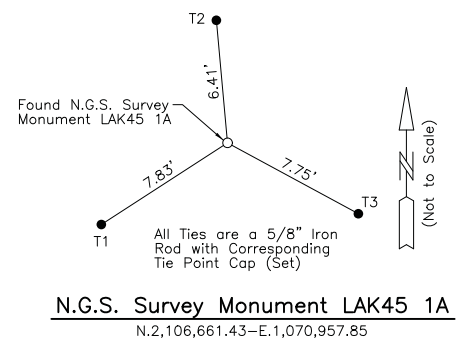
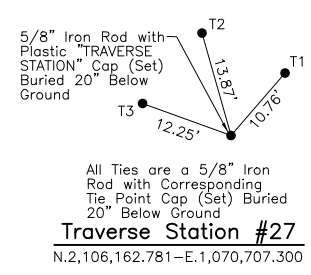
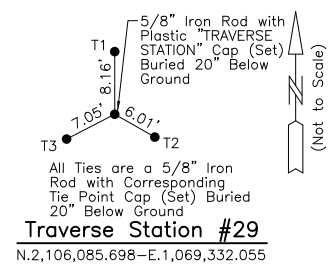
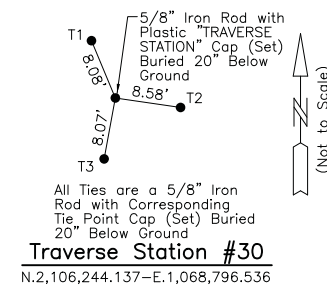
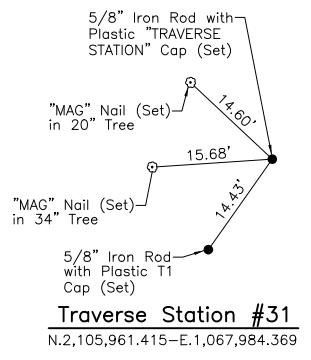
DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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

PROPOSED MILLENNIUM TRAIL ALIGNMENT				
	DESCRIPTION	STATION	NORTHING	EASTING
233	POT	99+99.55	2106146.2518	1068035.6570
CURVE PR MILL 1 3	PC	100+05.85	2106145.1734	1068041.8735
	PI	101+10.24	2106127.3318	1068144.7237
	PRC	102+04.73	2106184.4270	1068232.1116
CURVE PR MILL 1 4	PRC	102+04.73	2106184.4270	1068232.1116
	PI	102+91.40	2106231.8267	1068304.6600
	PRC	103+69.84	2106217.0148	1068390.0451
CURVE PR MILL 1 5	PRC	103+69.84	2106217.0148	1068390.0451
	PI	106+81.40	2106163.7646	1068697.0132
	PRC	108+74.24	2106464.9236	10658776.8148
CURVE PR MILL 1 6	PRC	108+74.24	2106464.9236	10658776.8148
	PI	113+06.46	2106882.7253	1068887.5247
	PRC	113+65.12	2106552.3959	1069166.2673
CURVE PR MILL 1 7	PRC	113+65.12	2106552.3959	1069166.2673
	PI	115+67.19	2106397.9597	1069296.5854
	PRC	117+31.64	2106433.6005	1069495.4901
CURVE PR MILL 1 8	PRC	117+31.64	2106433.6005	1069495.4901
	PI	118+99.07	2106463.1314	1069660.2968
	PRC	120+35.32	2106335.1700	1069768.2747
CURVE PR MILL 1 9	PRC	120+35.32	2106335.1700	1069768.2747
	PI	124+71.85	2106001.5524	1070049.7920
	PRC	126+98.55	2106311.0752	1070357.6042
CURVE PR MILL 1 10	PRC	126+98.55	2106311.0752	1070357.6042
	PI	129+49.31	2106488.8804	1070534.4629
	PRC	130+92.01	2106311.5183	1070711.6941
CURVE PR MILL 1 11	PRC	130+92.01	2106311.5183	1070711.6941
	PI	132+11.06	2106227.3152	1070795.8521
	PT	133+07.72	2106258.6781	1070910.6959
CURVE PR MILL 1 14	PC	135+01.47	2106309.7210	1071097.6036
	PI	135+74.96	2106329.0818	1071168.4983
	PRC	136+40.63	2106292.0200	1071231.9596
CURVE PR MILL 1 15	PRC	136+40.63	2106292.0200	1071231.9596
	PI	138+25.82	2106198.6244	1071391.8819
	PT	139+31.42	2106358.6460	1071485.1073
CURVE PR MILL 1 18	PC	140+31.42	2106445.0522	1071535.4459
	PI	141+05.94	2106509.4417	1071572.9579
	PT	141+72.73	2106528.4735	1071645.0062



- NOTE:
- BEARINGS ARE REFERENCED TO THE ILLINOIS COORDINATE SYSTEM NAD 83(2011) EAST ZONE AT FOUND NATIONAL GEODETIC SURVEY MONUMENTS LAK45 1A, P.I.D. AJ2896, PUBLISHED COORDINATE VALUES OF N.2,106,661.43-E.1,070,957.85 AND LAK45 1B, P.I.D. AJ2904, PUBLISHED COORDINATE VALUES OF N.2,108,804.42-E.1,070,259.49
  - BASIS OF ELEVATIONS  
ELEVATIONS ARE BASED ON THE FOUND NATIONAL GEODETIC SURVEY MONUMENTS LAK45 1A, P.I.D. AJ2896, PUBLISHED NAVD '88 ELEVATION 759.17 AND LAK45 1B, P.I.D. AJ2904, PUBLISHED NAVD '88 ELEVATION 759.25
  - THREE POINT TIES ARE PROVIDED ONLY TO FIND GENERAL LOCATIONS OF CONTROL POINTS, NOT TO ACCURATELY ESTABLISH THE POINTS.



PROP CURVE PR_MILL1 3 PI STA. = 101+10.24 Δ = 43° 00' 00" (LT) D = 21° 37' 16" R = 265.00' T = 104.39' L = 198.88' E = 19.82' P.C. STA = 100+05.85 P.T. STA = 102+04.73	PROP CURVE PR_MILL1 4 PI STA. = 102+91.40 Δ = 43° 00' 00" (RT) D = 26° 02' 37" R = 220.00' T = 86.66' L = 165.11' E = 16.45' P.C. STA = 102+04.73 P.T. STA = 103+69.84	PROP CURVE PR_MILL1 5 PI STA. = 106+81.40 Δ = 85° 00' 00" (LT) D = 16° 51' 06" R = 340.00' T = 311.55' L = 504.40' E = 121.16' P.C. STA = 103+69.84 P.T. STA = 108+74.24	PROP CURVE PR_MILL1 6 PI STA. = 113+06.46 Δ = 125° 00' 00" (RT) D = 25° 27' 53" R = 225.00' T = 432.22' L = 490.87' E = 262.28' P.C. STA = 108+74.24 P.T. STA = 113+65.12	PROP CURVE PR_MILL1 7 PI STA. = 115+67.19 Δ = 60° 00' 00" (LT) D = 16° 22' 13" R = 350.00' T = 202.07' L = 366.52' E = 54.15' P.C. STA = 113+65.12 P.T. STA = 117+31.64	PROP CURVE PR_MILL1 8 PI STA. = 118+99.07 Δ = 60° 00' 00" (RT) D = 19° 45' 26" R = 290.00' T = 167.43' L = 303.69' E = 44.86' P.C. STA = 117+31.64 P.T. STA = 120+35.32	PROP CURVE PR_MILL1 9 PI STA. = 124+71.85 Δ = 95° 00' 00" (LT) D = 14° 19' 26" R = 400.00' T = 436.52' L = 663.23' E = 192.07' P.C. STA = 120+35.32 P.T. STA = 126+98.55
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
ALIGNMENT, TIES, AND BENCHMARKS**

SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	20
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PROP CURVE PR_US45 1 PI STA. = 226+25.00 Δ = 0° 05' 40" (LT) D = 0° 12' 00" R = 28,646.47' T = 23.62' L = 47.23' E = 0.01' P.C. STA = 226+01.39 P.T. STA = 226+48.62	PROP CURVE PR_US45 2 PI STA. = 227+36.65 Δ = 1° 15' 40" (LT) D = 0° 42' 58" R = 8,000.00' T = 88.04' L = 176.07' E = 0.48' P.C. STA = 226+48.62 P.T. STA = 228+24.68	PROP CURVE PR_US45 5 PI STA. = 237+31.33 Δ = 2° 51' 54" (RT) D = 0° 42' 58" R = 8,000.00' T = 200.06' L = 400.04' E = 2.50' P.C. STA = 235+31.27 P.T. STA = 239+31.31	PROP CURVE PR_US45 6 PI STA. = 241+31.38 Δ = 2° 51' 54" (LT) D = 0° 42' 58" R = 8,000.00' T = 200.06' L = 400.04' E = 2.50' P.C. STA = 239+31.31 P.T. STA = 243+31.35
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FUTURE US ROUTE 45 ALIGNMENT				
	DESCRIPTION	STATION	NORTHING	EASTING
CURVE PR US45 1	PC	226+01.39	2105697.1351	1071158.0029
	PI	226+25.00	2105720.0578	1071152.3220
	PCC	226+48.62	2105742.9711	1071146.6033
CURVE PR US45 2	PCC	226+48.62	2105742.9711	1071146.6033
	PI	227+36.65	2105828.3877	1071125.2851
CURVE PR US45 5	PT	228+24.68	2105913.3144	1071102.0923
	PC	235+31.27	2106594.9404	1070915.9460
CURVE PR US45 6	PI	237+31.33	2106787.9357	1070863.2406
	PRC	239+31.31	2106983.3241	1070820.2479
CURVE PR US45 6	PRC	239+31.31	2106983.3241	1070820.2479
	PI	241+31.38	2107178.7125	1070777.2551
4	PT	243+31.35	2107371.7078	1070724.5498
	POT	247+75.18	2107800.1427	1070607.5478

PROPOSED WEST BERM ALIGNMENT				
	DESCRIPTION	STATION	NORTHING	EASTING
2001	POT	400+00.00	2106275.8179	1070393.0574
2005	POT	405+50.00	2106105.9109	1070916.1555

PROPOSED CONNECTOR TRAIL GRADING ALIGNMENT				
	DESCRIPTION	STATION	NORTHING	EASTING
144	POT	200+00.00	2106372.0295	1070613.7175
CURVE PR CONNECTOR 3	PC	200+25.00	2106395.7535	1070621.6023
	PI	201+02.37	2106469.1747	1070646.0040
	PRC	201+56.70	2106463.9897	1070723.2001
CURVE PR CONNECTOR 4	PRC	201+56.70	2106463.9897	1070723.2001
	PI	202+01.91	2106460.9801	1070768.0074
	PRC	202+41.12	2106492.4710	1070800.0243
CURVE PR CONNECTOR 5	PRC	202+41.12	2106492.4710	1070800.0243
	PI	202+67.26	2106510.8062	1070818.6657
145	PT	202+92.27	2106517.6701	1070843.8959
	POT	203+07.12	2106521.5679	1070858.2234

PROP CURVE PR_CONNECTOR 3 PI STA. = 201+02.37 Δ = 75° 27' 30" (RT) D = 57° 17' 45" R = 100.00' T = 77.37' L = 131.70' E = 26.44' P.C. STA = 200+25.00 P.T. STA = 201+56.70	PROP CURVE PR_CONNECTOR 4 PI STA. = 202+01.91 Δ = 48° 22' 05" (LT) D = 57° 17' 45" R = 100.00' T = 44.91' L = 84.42' E = 9.62' P.C. STA = 201+56.70 P.T. STA = 202+41.12	PROP CURVE PR_CONNECTOR 5 PI STA. = 202+67.26 Δ = 29° 18' 23" (RT) D = 57° 17' 45" R = 100.00' T = 26.15' L = 51.15' E = 3.36' P.C. STA = 202+41.12 P.T. STA = 202+92.27
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CURVE EX_US45 1				
	DESCRIPTION	STATION	NORTHING	EASTING
CURVE EX_US45 1	PC	222+49.61	2105355.1703	1071240.5263
	PI	227+64.40	2105856.3300	1071122.8374
	PT	232+79.08	2106352.9376	1070987.2180
405	POT	247+75.18	210796.1910	1070593.0777

EXISTING US ROUTE 45 ALIGNMENT				
	DESCRIPTION	STATION	NORTHING	EASTING
CURVE EX_US45 1	PC	222+49.61	2105355.1703	1071240.5263
	PI	227+64.40	2105856.3300	1071122.8374
	PT	232+79.08	2106352.9376	1070987.2180
405	POT	247+75.18	210796.1910	1070593.0777

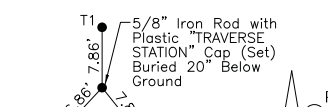
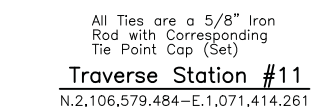
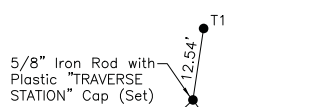
PROPOSED EAST BERM ALIGNMENT				
	DESCRIPTION	STATION	NORTHING	EASTING
2010	POT	500+00.00	2106397.9749	1071057.8482
2015	POT	505+63.44	2106546.2271	1071601.4292

PROPOSED PARKING LOT TRAIL ALIGNMENT				
	DESCRIPTION	STATION	NORTHING	EASTING
396	POT	300+00.00	2106362.5828	1071487.4008
CURVE PR PARK1 3	PC	300+23.26	2106350.8776	1071507.5035
	PI	300+60.54	2106332.1216	1071539.7154
	PT	300+94.62	2106296.8574	1071551.7915
397	PT	303+00.00	2106102.5553	1071618.3296

PROP CURVE PR_PARK1 3 PI STA. = 300+60.54 Δ = 40° 53' 08" (RT) D = 57° 17' 45" R = 100.00' T = 37.27' L = 71.36' E = 6.72' P.C. STA = 300+23.26 P.T. STA = 300+94.62	PROP CURVE PR_MILL1 18 PI STA. = 129+49.31 Δ = 90° 10' 27" (RT) D = 22° 55' 06" R = 250.00' T = 250.76' L = 393.46' E = 104.09' P.C. STA = 126+98.55 P.T. STA = 130+92.01	PROP CURVE PR_MILL1 11 PI STA. = 132+11.06 Δ = 60° 17' 24" (LT) D = 27° 56' 57" R = 205.00' T = 119.05' L = 215.71' E = 32.06' P.C. STA = 130+92.01 P.T. STA = 133+07.72	PROP CURVE PR_MILL1 14 PI STA. = 135+74.96 Δ = 45° 33' 35" (RT) D = 32° 44' 26" R = 175.00' T = 73.49' L = 139.15' E = 14.80' P.C. STA = 135+01.47 P.T. STA = 136+40.63	PROP CURVE PR_MILL1 15 PI STA. = 138+25.82 Δ = 90° 03' 39" (LT) D = 30° 58' 14" R = 185.00' T = 185.20' L = 290.79' E = 76.77' P.C. STA = 136+40.63 P.T. STA = 139+31.42	PROP CURVE PR_MILL1 18 PI STA. = 141+05.94 Δ = 44° 58' 44" (RT) D = 31° 49' 52" R = 180.00' T = 74.52' L = 141.31' E = 14.82' P.C. STA = 140+31.42 P.T. STA = 141+72.73
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DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
FINAL SURVEY	NOTE BOOK	NO.			

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



Traverse Station #11  
N.2,106,579.484--E.1,071,414.261

Traverse Station #24  
N.2,106,033.458--E.1,071,578.579

Traverse Station #28  
N.2,106,186.664--E.1,070,141.081

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DATE - 05/15/2020

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



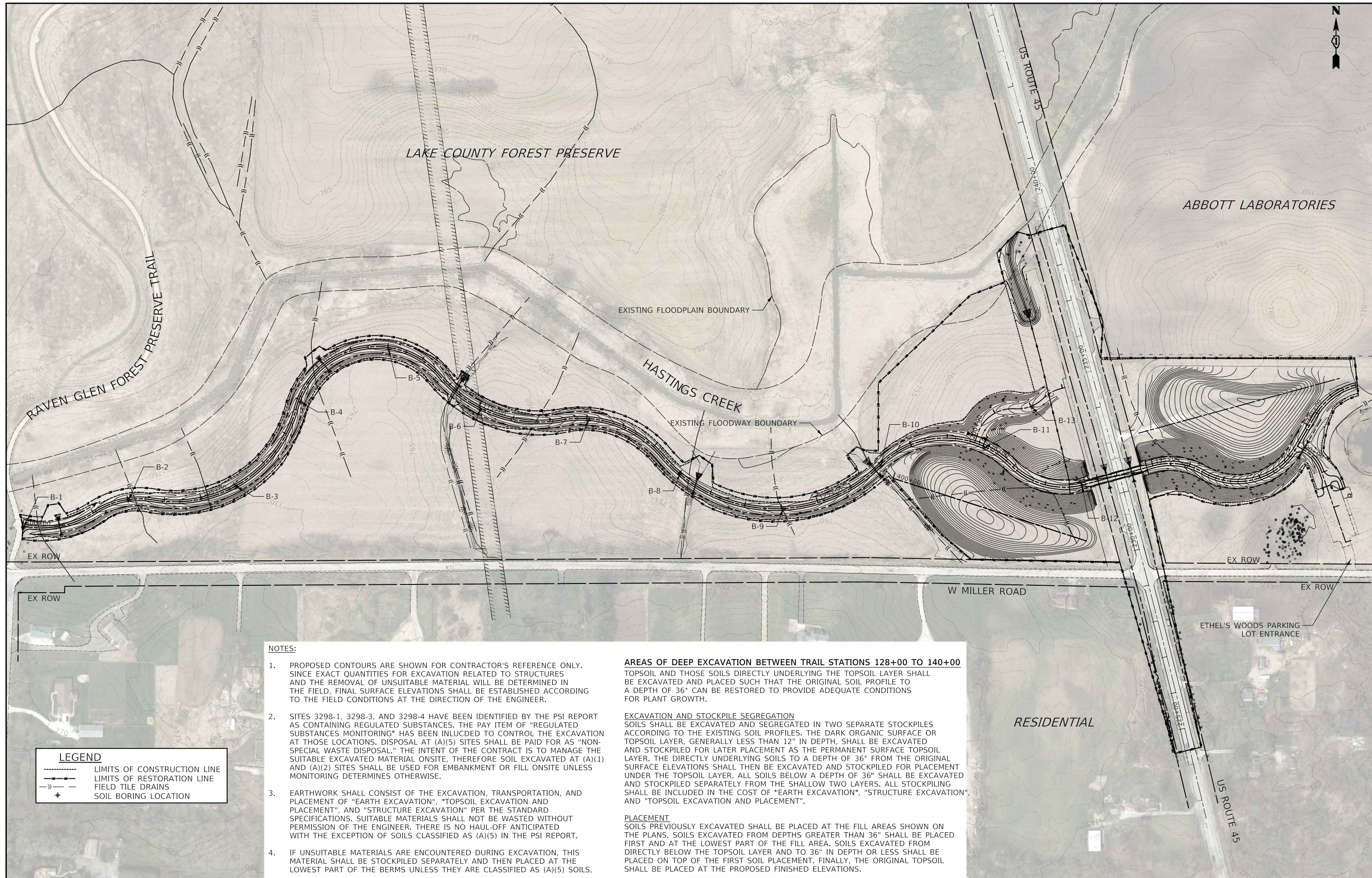
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**ALIGNMENT, TIES, AND BENCHMARKS**

SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	21
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



**NOTES:**

- PROPOSED CONTOURS ARE SHOWN FOR CONTRACTOR'S REFERENCE ONLY. SINCE EXACT QUANTITIES FOR EXCAVATION RELATED TO STRUCTURES AND THE REMOVAL OF UNSUITABLE MATERIAL WILL BE DETERMINED IN THE FIELD, FINAL SURFACE ELEVATIONS SHALL BE ESTABLISHED ACCORDING TO THE FIELD CONDITIONS AT THE DIRECTION OF THE ENGINEER.
- SITES 3298-1, 3298-3, AND 3298-4 HAVE BEEN IDENTIFIED BY THE PSI REPORT AS CONTAINING REGULATED SUBSTANCES. THE PAY ITEM OF "REGULATED SUBSTANCES MONITORING" HAS BEEN INCLUCED TO CONTROL THE EXCAVATION AT THOSE LOCATIONS. DISPOSAL AT (A)(5) SITES SHALL BE PAID FOR AS "NON-SPECIAL WASTE DISPOSAL." THE INTENT OF THE CONTRACT IS TO MANAGE THE SUITABLE EXCAVATED MATERIAL ONSITE, THEREFORE SOIL EXCAVATED AT (A)(1) AND (A)(2) SITES SHALL BE USED FOR EMBANKMENT OR FILL ONSITE UNLESS MONITORING DETERMINES OTHERWISE.
- EARTHWORK SHALL CONSIST OF THE EXCAVATION, TRANSPORTATION, AND PLACEMENT OF "EARTH EXCAVATION", "TOPSOIL EXCAVATION AND PLACEMENT", AND "STRUCTURE EXCAVATION" PER THE STANDARD SPECIFICATIONS. SUITABLE MATERIALS SHALL NOT BE WASTED WITHOUT PERMISSION OF THE ENGINEER. THERE IS NO HAUL-OFF ANTICIPATED WITH THE EXCEPTION OF SOILS CLASSIFIED AS (A)(5) IN THE PSI REPORT.
- IF UNSUITABLE MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THIS MATERIAL SHALL BE STOCKPILED SEPARATELY AND THEN PLACED AT THE LOWEST PART OF THE BERMS UNLESS THEY ARE CLASSIFIED AS (A)(5) SOILS.

**AREAS OF DEEP EXCAVATION BETWEEN TRAIL STATIONS 128+00 TO 140+00**  
 TOPSOIL AND THOSE SOILS DIRECTLY UNDERLYING THE TOPSOIL LAYER SHALL BE EXCAVATED AND PLACED SUCH THAT THE ORIGINAL SOIL PROFILE TO A DEPTH OF 36" CAN BE RESTORED TO PROVIDE ADEQUATE CONDITIONS FOR PLANT GROWTH.

**EXCAVATION AND STOCKPILE SEGREGATION**  
 SOILS SHALL BE EXCAVATED AND SEGREGATED IN TWO SEPARATE STOCKPILES ACCORDING TO THE EXISTING SOIL PROFILES. THE DARK ORGANIC SURFACE OR TOPSOIL LAYER, GENERALLY LESS THAN 12" IN DEPTH, SHALL BE EXCAVATED AND STOCKPILED FOR LATER PLACEMENT AS THE PERMANENT SURFACE TOPSOIL LAYER. THE DIRECTLY UNDERLYING SOILS TO A DEPTH OF 36" FROM THE ORIGINAL SURFACE ELEVATIONS SHALL THEN BE EXCAVATED AND STOCKPILED FOR PLACEMENT UNDER THE TOPSOIL LAYER. ALL SOILS BELOW A DEPTH OF 36" SHALL BE EXCAVATED AND STOCKPILED SEPARATELY FROM THE SHALLOW TWO LAYERS. ALL STOCKPILING SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION", "STRUCTURE EXCAVATION", AND "TOPSOIL EXCAVATION AND PLACEMENT".

**PLACEMENT**  
 SOILS PREVIOUSLY EXCAVATED SHALL BE PLACED AT THE FILL AREAS SHOWN ON THE PLANS. SOILS EXCAVATED FROM DEPTHS GREATER THAN 36" SHALL BE PLACED FIRST AND AT THE LOWEST PART OF THE FILL AREA. SOILS EXCAVATED FROM DIRECTLY BELOW THE TOPSOIL LAYER AND TO 36" IN DEPTH OR LESS SHALL BE PLACED ON TOP OF THE FIRST SOIL PLACEMENT. FINALLY, THE ORIGINAL TOPSOIL SHALL BE PLACED AT THE PROPOSED FINISHED ELEVATIONS.

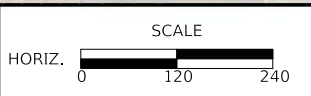
**LEGEND**

---	LIMITS OF CONSTRUCTION LINE
---	LIMITS OF RESTORATION LINE
- - -	FIELD TILE DRAINS
+	SOIL BORING LOCATION

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DATE - 05/15/2020	REVISED -

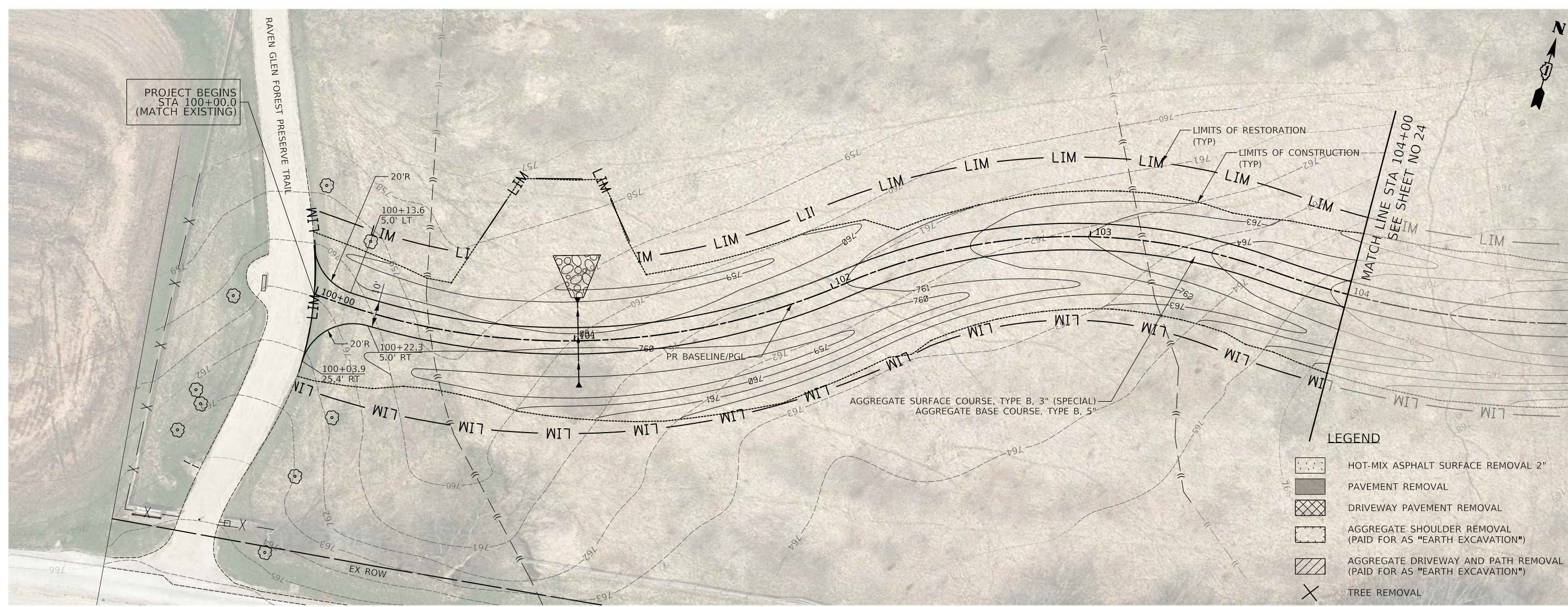
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**SITE PLAN**  
 SHEET 1 OF 1 SHEETS

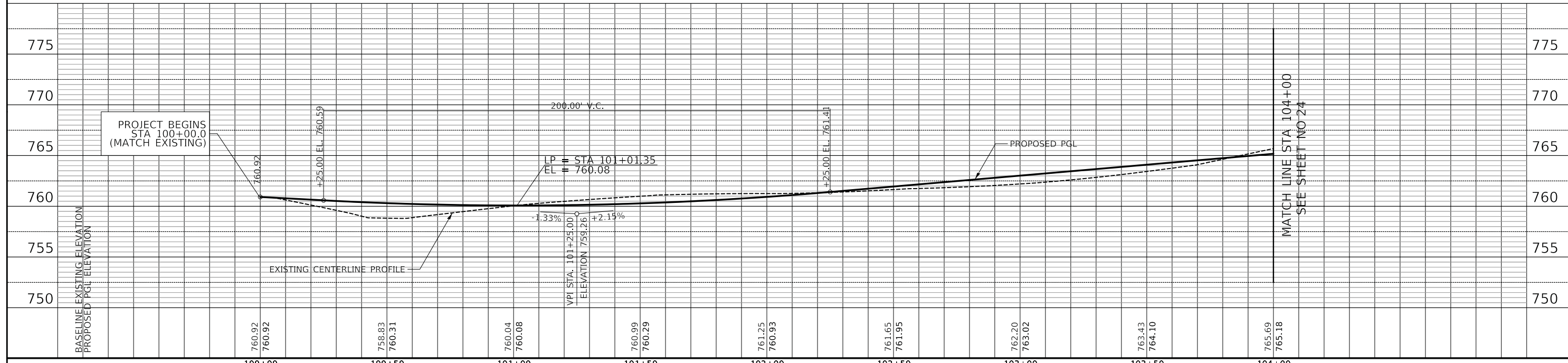
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	22
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



# MILLENNIUM TRAIL

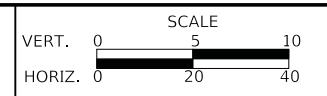
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



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DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

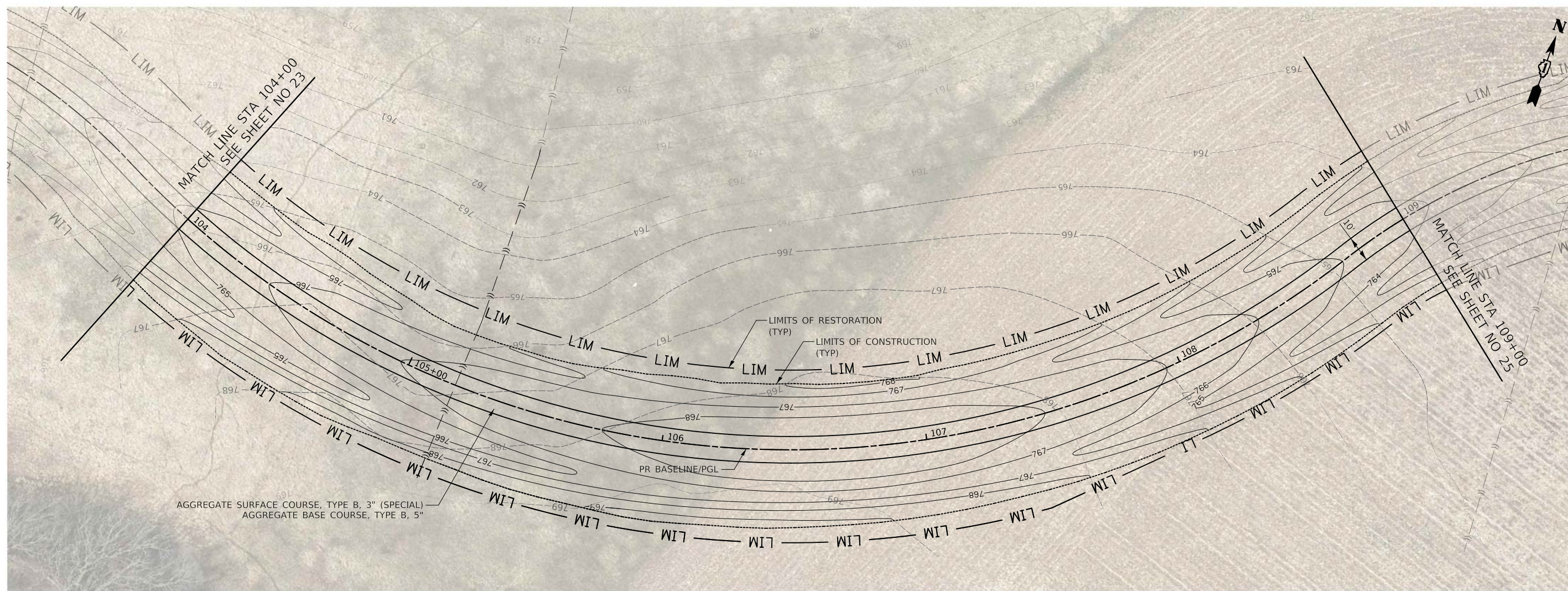


**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
TRAIL PLAN AND PROFILE**

SHEET 1 OF 10 SHEETS STA. 100+00 TO STA. 104+00

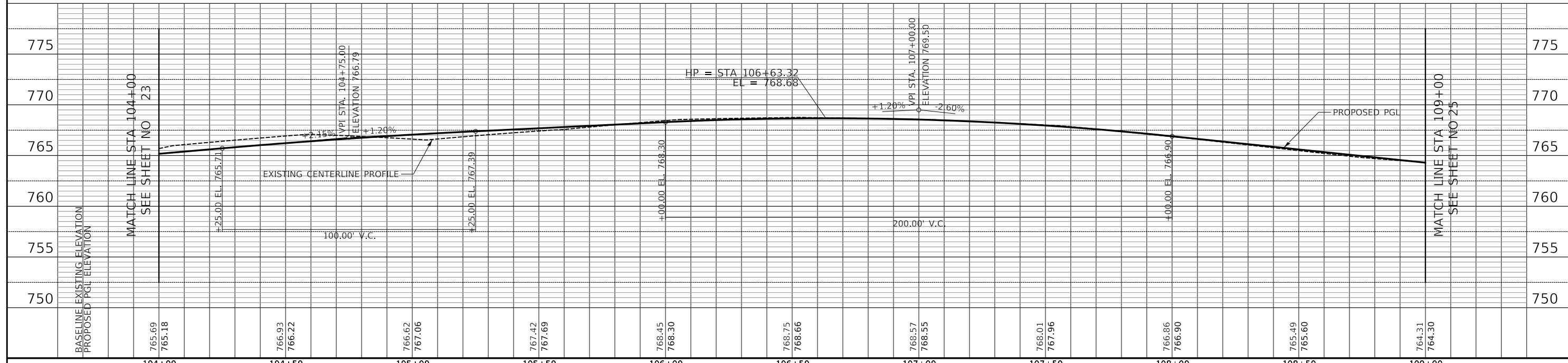
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	23
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



# MILLENNIUM TRAIL

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



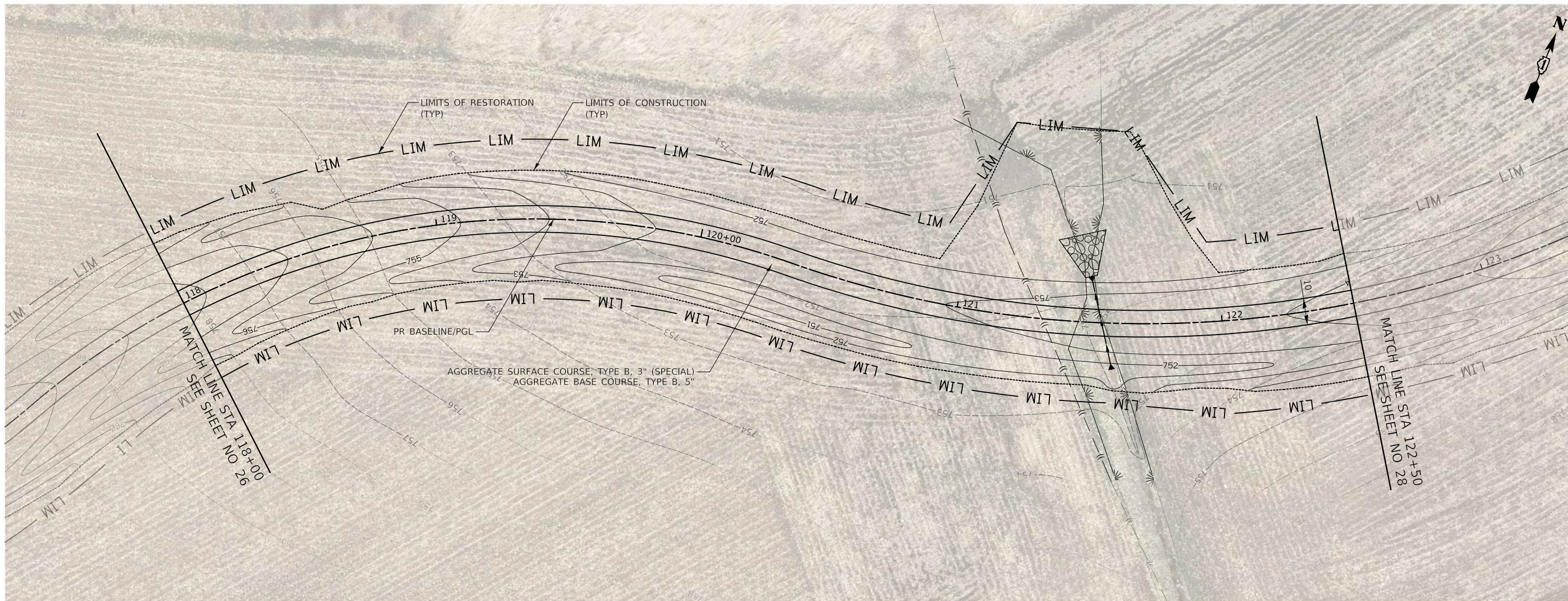
<p>Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com</p>	DESIGNED - PK DRAWN - AAS CHECKED - JRV DATE - 05/15/2020	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	VERT. 0 5 10 HORIZ. 0 20 40 SCALE	<b>US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL</b> <b>TRAIL PLAN AND PROFILE</b>	F.A.P. 0334 RTE. 16-F3000-05-BT	SECTION COUNTY LAKE	TOTAL SHEETS 146 SHEET NO. 24	CONTRACT NO. 61G65 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
	SHEET 2 OF 10 SHEETS STA. 104+00 TO STA. 109+00					SHEET NO.			





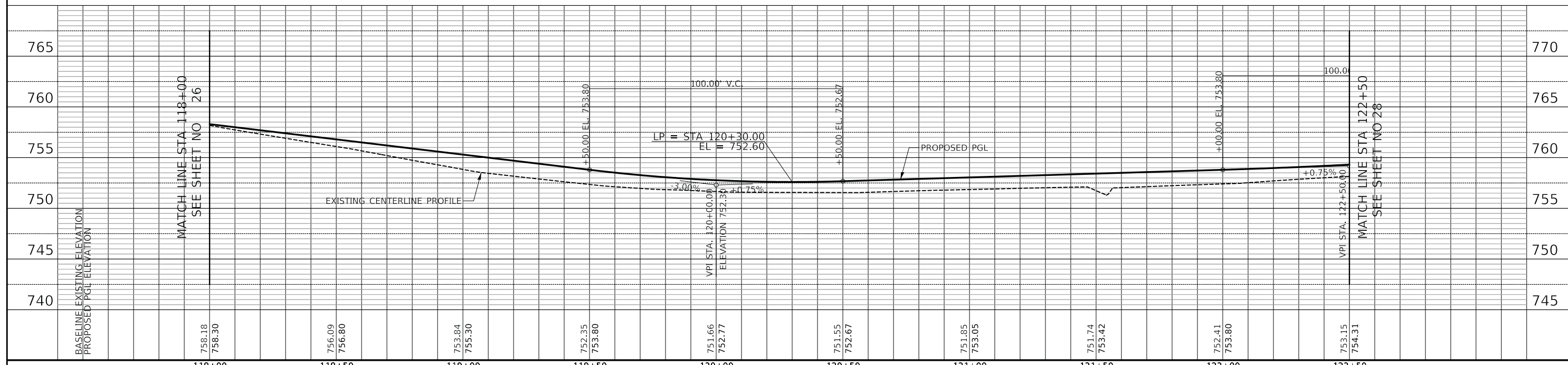


FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



# MILLENNIUM TRAIL

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

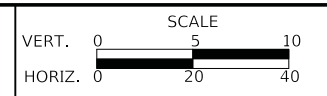


BASELINE EXISTING ELEVATION	758.18	756.09	753.84	752.35	751.66	751.55	751.85	751.74	752.41	753.15	770
PROPOSED PGL ELEVATION	758.30	756.80	755.30	753.80	752.77	752.67	753.05	753.42	753.80	754.31	765
	118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	760
											755
											750
											745

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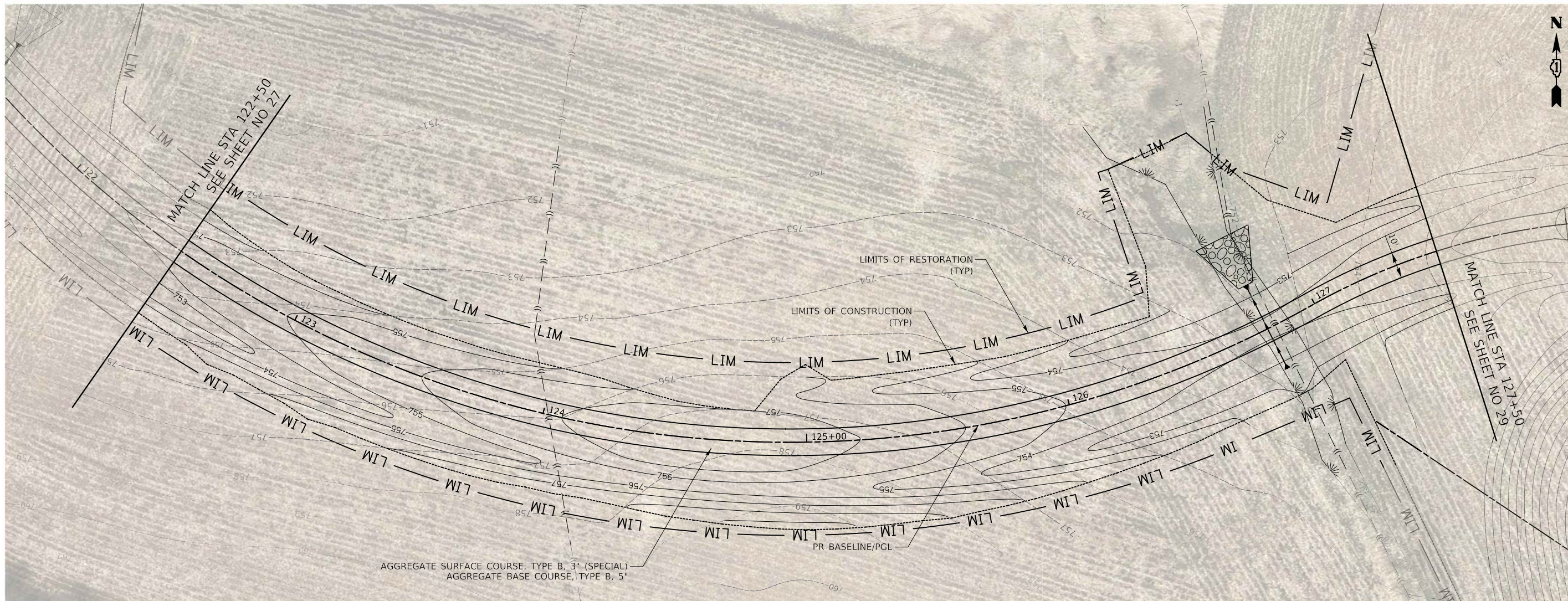
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**TRAIL PLAN AND PROFILE**  
 SHEET 5 OF 10 SHEETS STA. 118+00 TO STA. 122+50

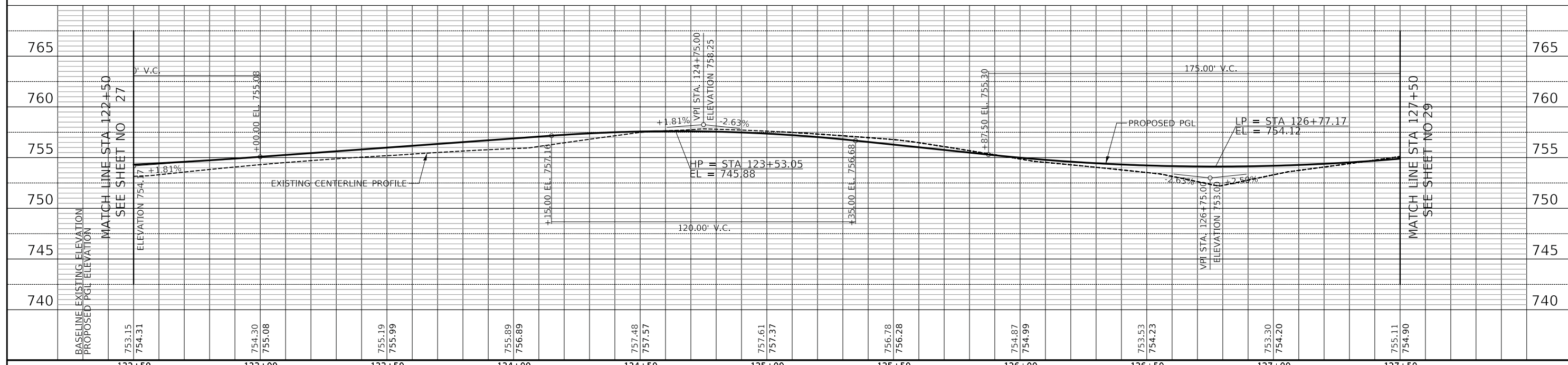
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	27
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



# MILLENNIUM TRAIL

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

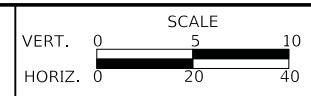


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122+50	123+00	123+50	124+00	124+50	125+00	125+50	126+00	126+50	127+00	127+50											

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DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS**  
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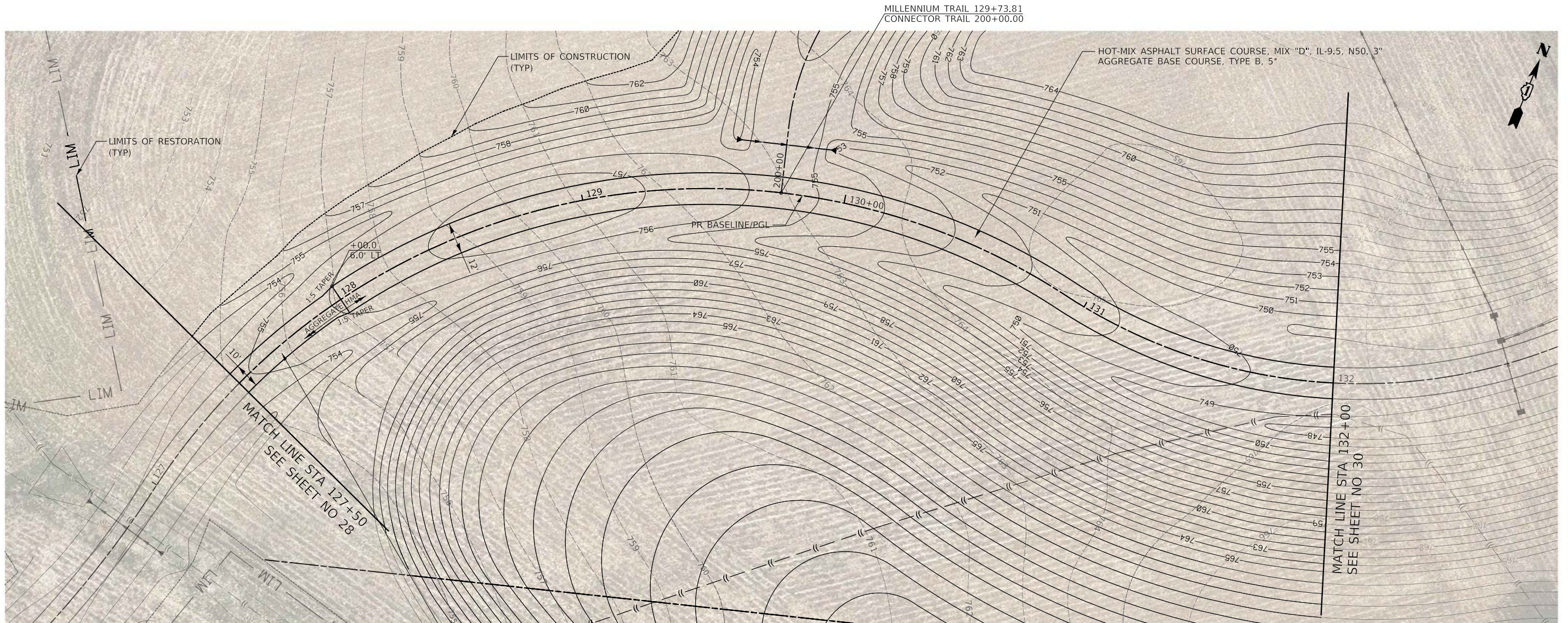


**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**TRAIL PLAN AND PROFILE**

SHEET 6 OF 10 SHEETS STA. 122+50 TO STA. 127+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	28
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

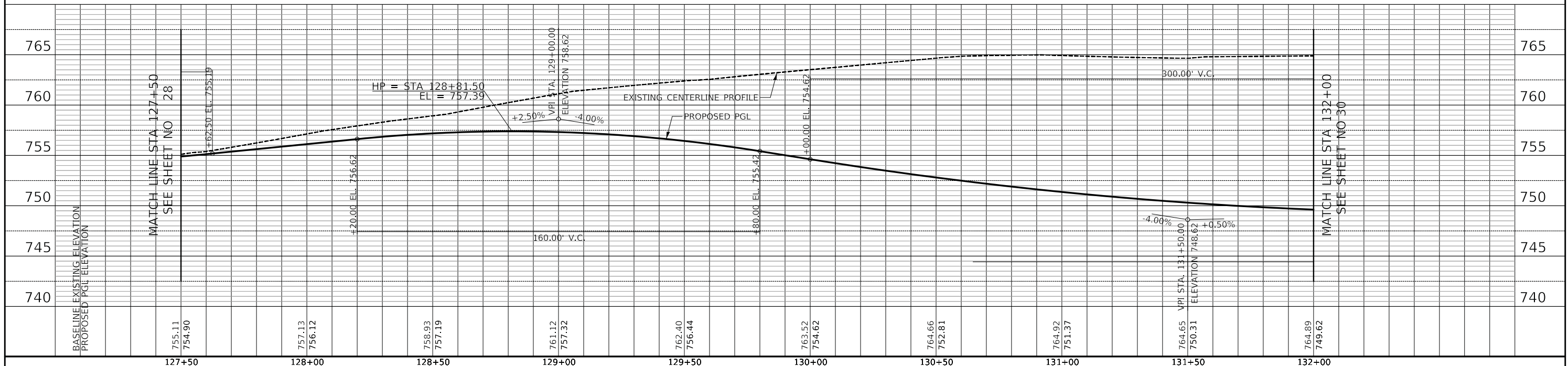
FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED
BY	DATE
NO.	



AGGREGATE SURFACE COURSE, TYPE B, 3" (SPECIAL)  
AGGREGATE BASE COURSE, TYPE B, 5"

# MILLENNIUM TRAIL

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



755.11	757.13	758.93	761.12	762.40	763.52	764.66	764.92	764.65	764.89
754.90	756.12	757.19	757.32	756.44	754.62	752.81	751.37	750.31	749.62
127+50	128+00	128+50	129+00	129+50	130+00	130+50	131+00	131+50	132+00

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**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**TRAIL PLAN AND PROFILE**

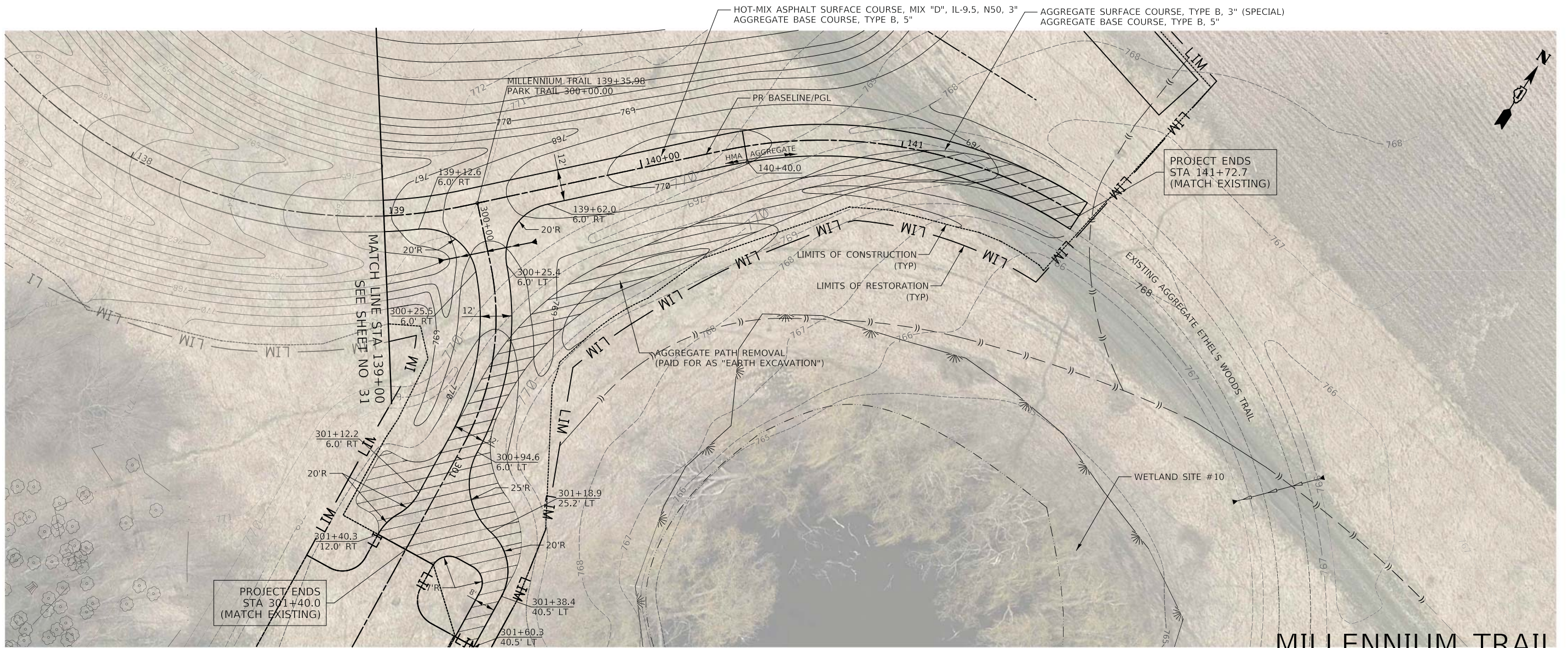
SHEET 7 OF 10 SHEETS STA. 127+50 TO STA. 132+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	29
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

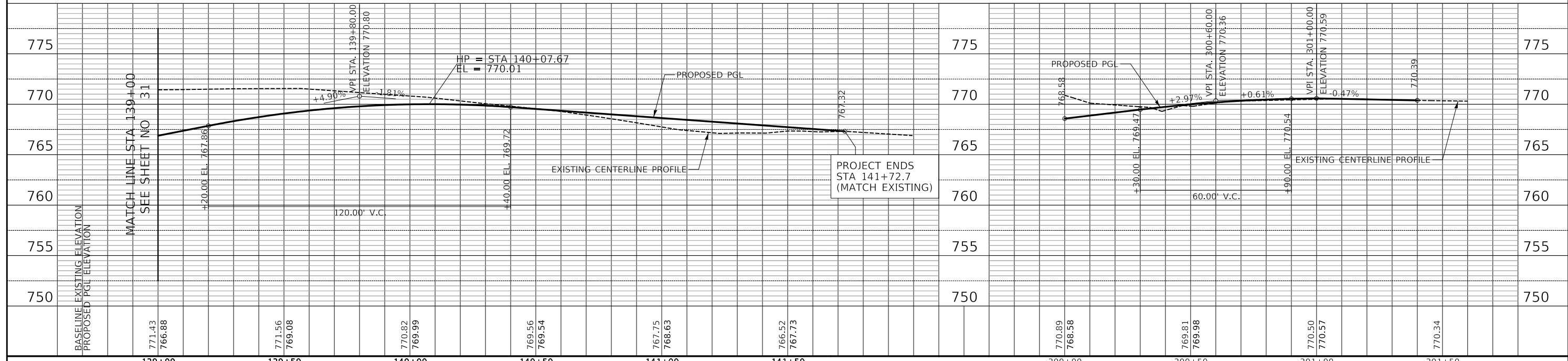




FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
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	AREAS CHECKED		



ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	TEMPLATE		
	AREAS CHECKED		

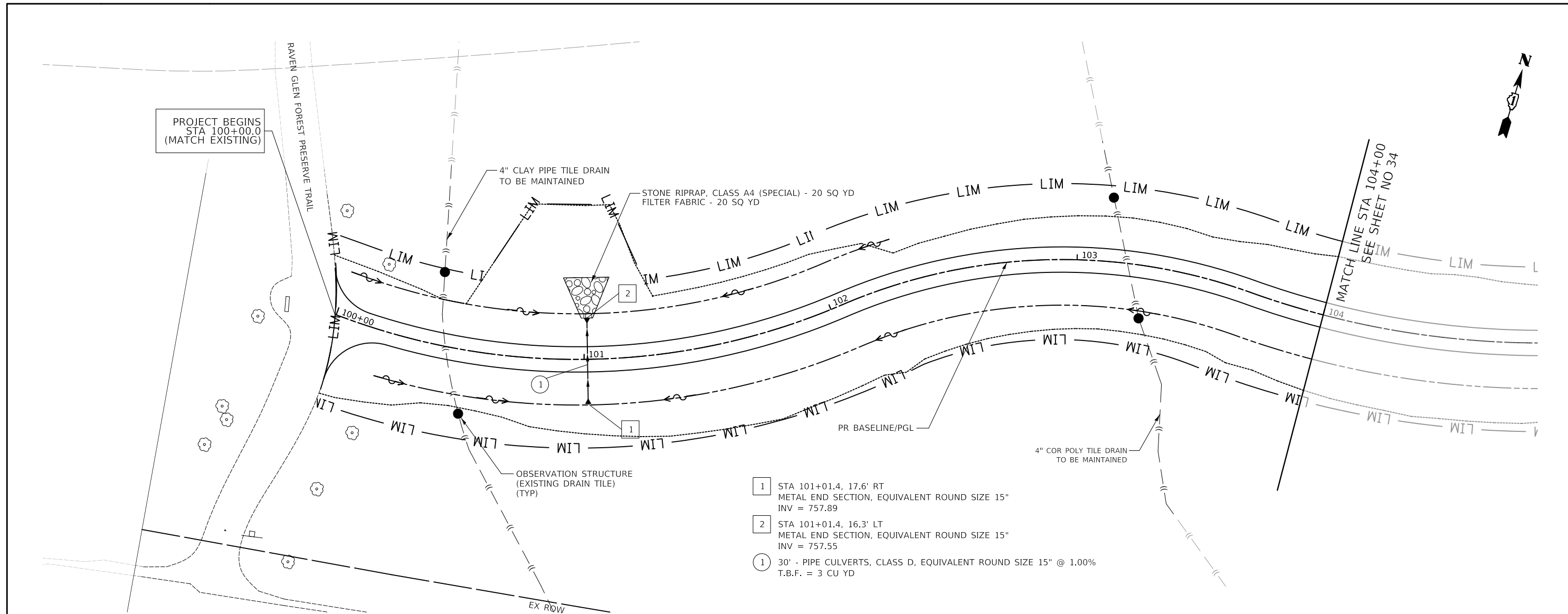


<p>Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com</p>	DESIGNED - PK	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	VERT. 0 5 10	<p align="center"><b>US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL</b> <b>TRAIL PLAN AND PROFILE</b></p>	F.A.P. 0334	SECTION 16-F3000-05-BT	COUNTY LAKE	TOTAL SHEETS 146	SHEET NO. 32
	DRAWN - AAS	REVISED -		HORIZ. 0 20 40		SHEET 10 OF 10 SHEETS	STA. 140+00 TO STA. 141+72.7	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
CHECKED - JRV	REVISED -					CONTRACT NO. 61G65				
DATE - 05/15/2020	REVISED -									

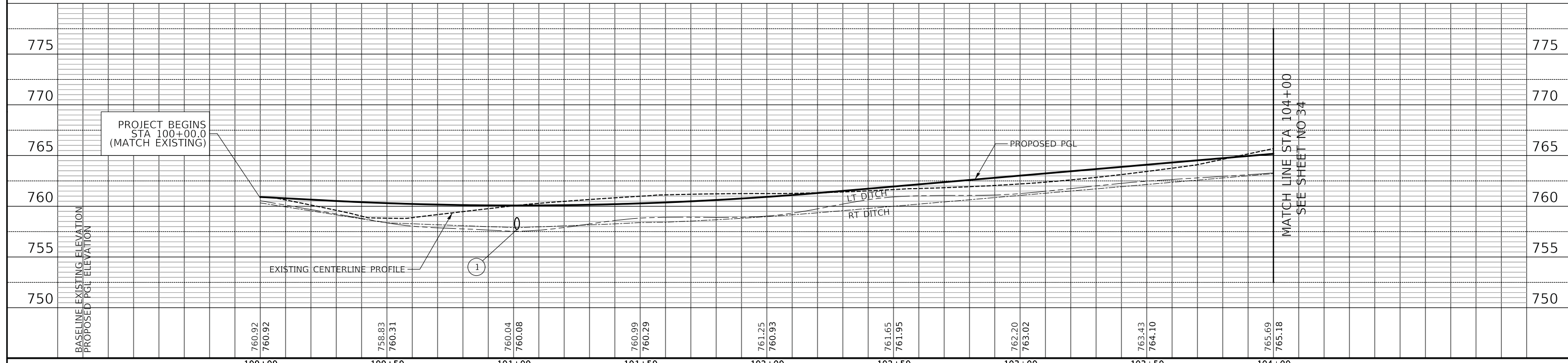


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NOTE BOOK NO.	PLOTTED BY	
	TEMPLATE AREAS CHECKED	

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

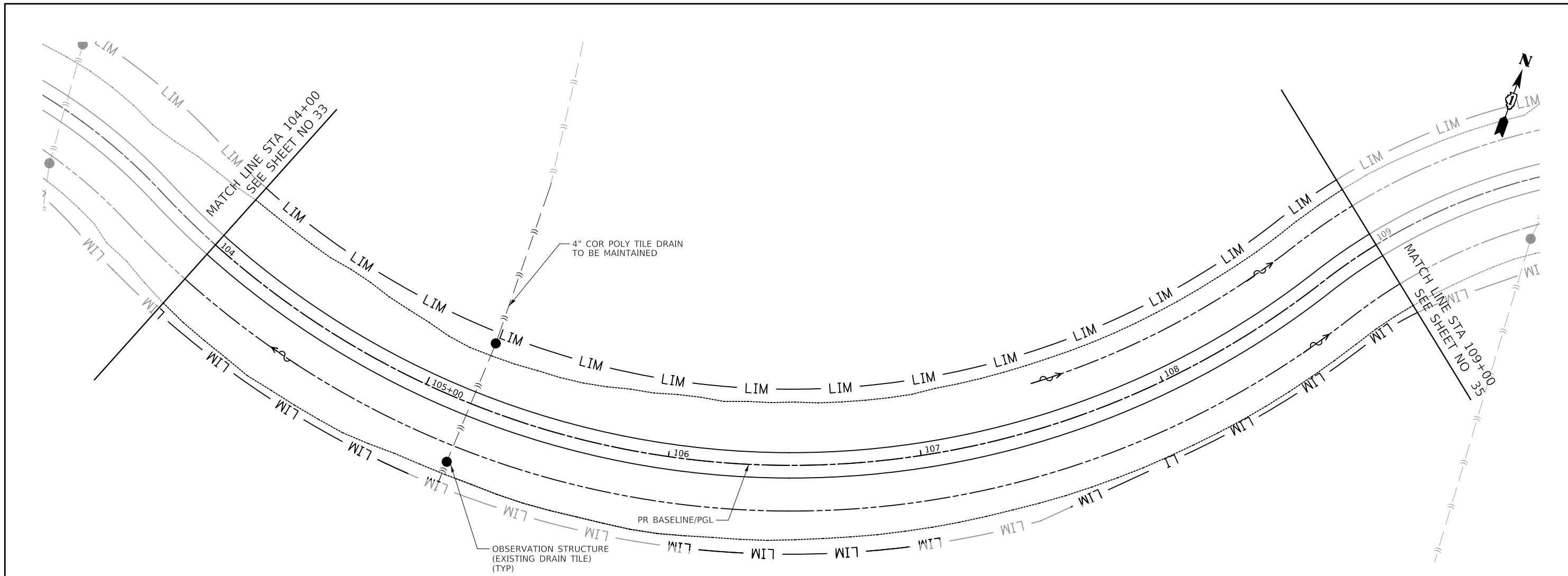


# MILLENNIUM TRAIL

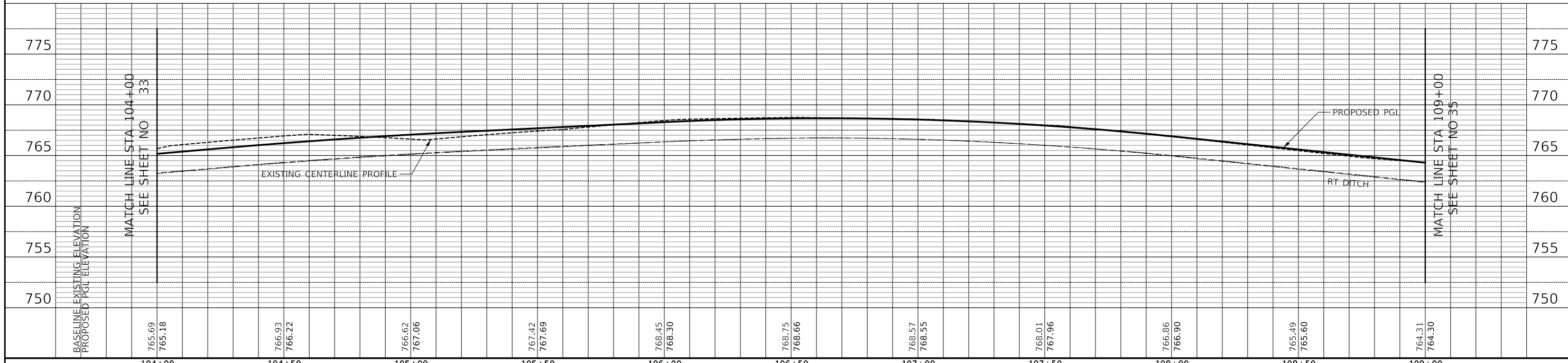


FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
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ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
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	AREAS CHECKED	



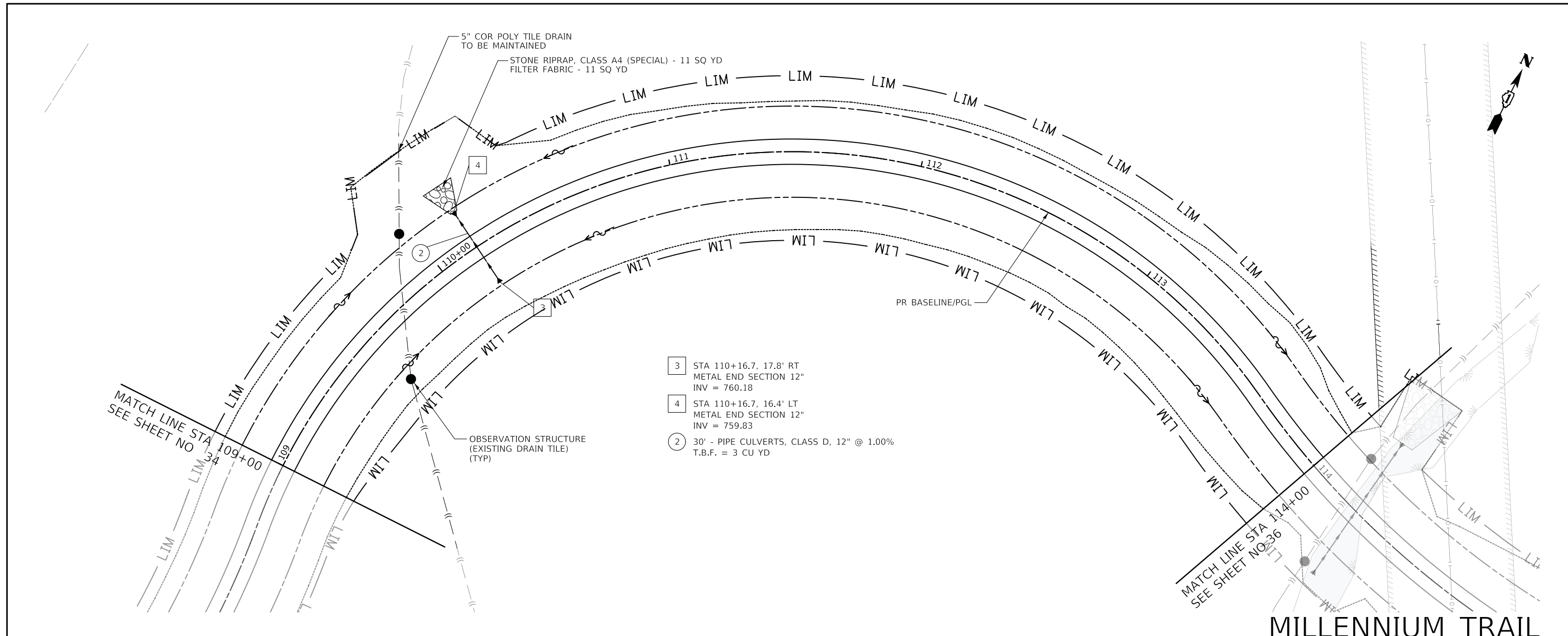
# MILLENNIUM TRAIL



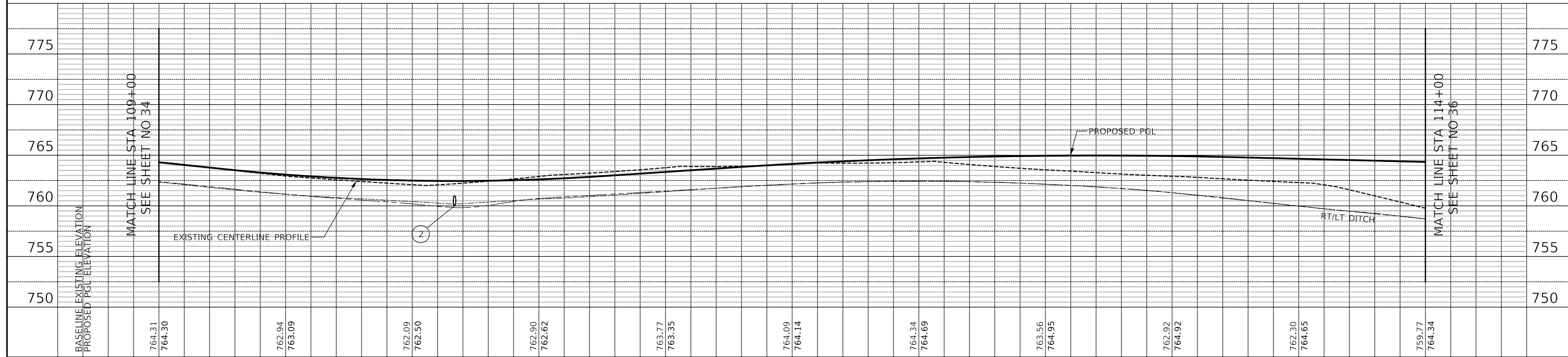
<p>Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com</p>	DESIGNED - PK DRAWN - AAS CHECKED - JRV DATE - 05/15/2020	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	VERT. 0 5 10 HORIZ. 0 20 40	<b>US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL</b> <b>TRAIL DRAINAGE AND UTILITIES</b>	F.A.P. RTE. 0334 SECTION 16-F3000-05-BT COUNTY LAKE TOTAL SHEETS 146 SHEET NO. 34 CONTRACT NO. 61G65	SHEET 2 OF 10 SHEETS STA. 104+00 TO STA. 109+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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- 3 STA 110+16.7, 17.8' RT  
METAL END SECTION 12"  
INV = 760.18
- 4 STA 110+16.7, 16.4' LT  
METAL END SECTION 12"  
INV = 759.83
- 2 30' - PIPE CULVERTS, CLASS D, 12" @ 1.00%  
T.B.F. = 3 CU YD

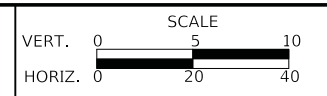


109+00	109+50	110+00	110+50	111+00	111+50	112+00	112+50	113+00	113+50	114+00
764.31 764.30	762.94 763.09	762.09 762.50	762.90 762.62	763.77 763.35	764.09 764.14	764.34 764.69	763.56 764.95	762.92 764.92	762.30 764.65	759.77 764.34

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DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

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



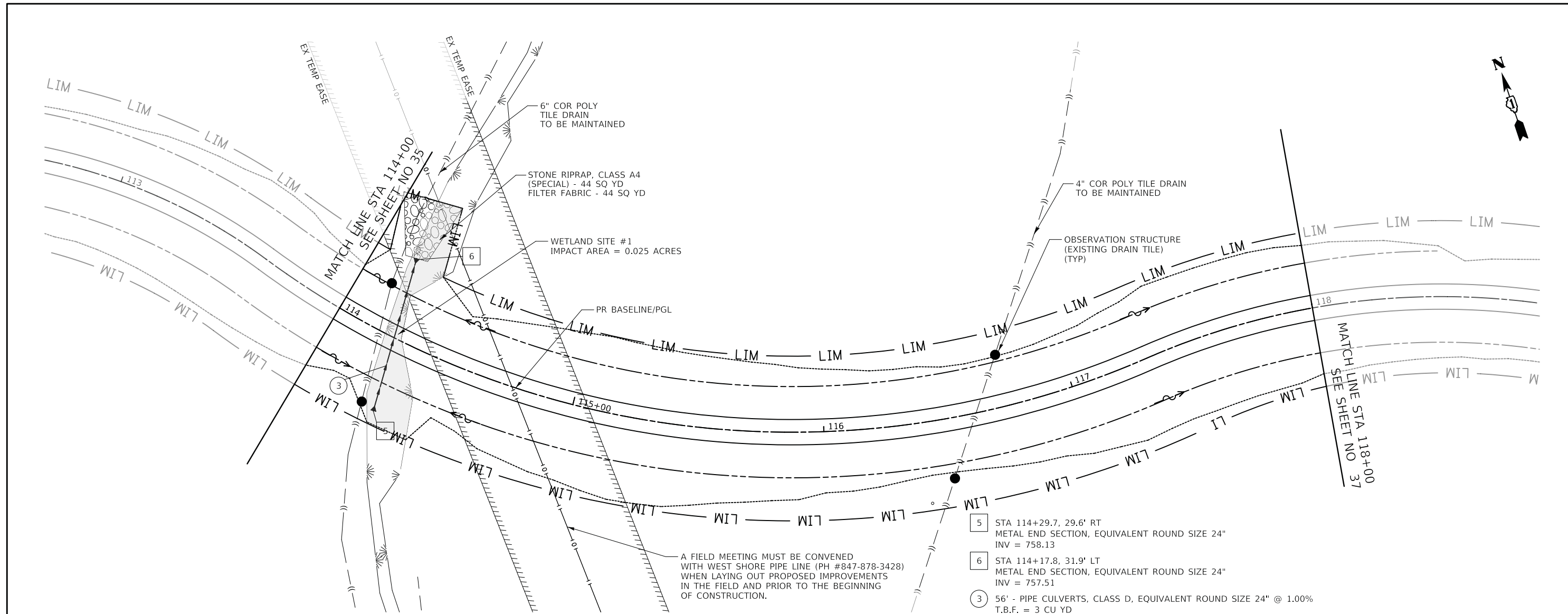
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**TRAIL DRAINAGE AND UTILITIES**

F.A.P. RTE. 0334	SECTION 16-F3000-05-BT	COUNTY LAKE	TOTAL SHEETS 146	SHEET NO. 35
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

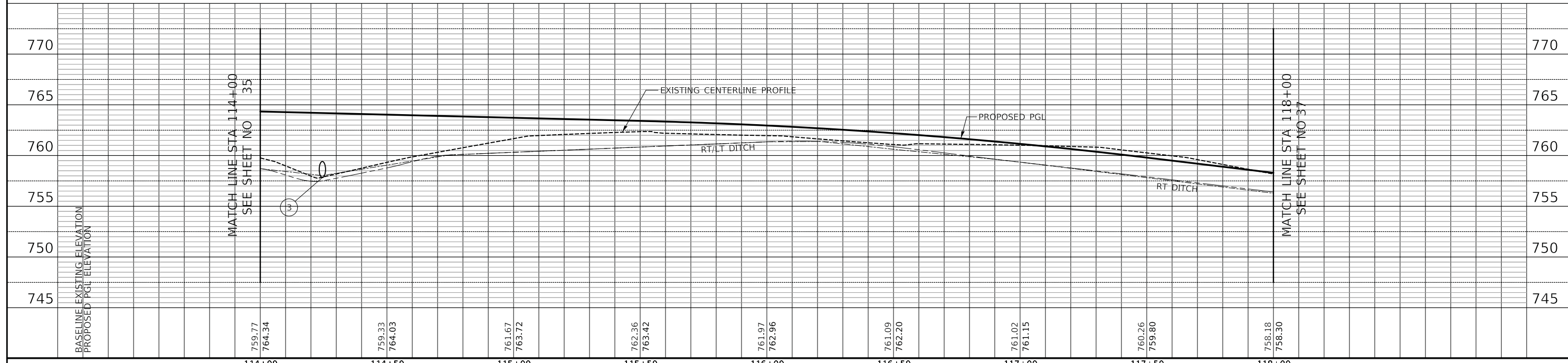
SHEET 3 OF 10 SHEETS STA. 109+00 TO STA. 114+00

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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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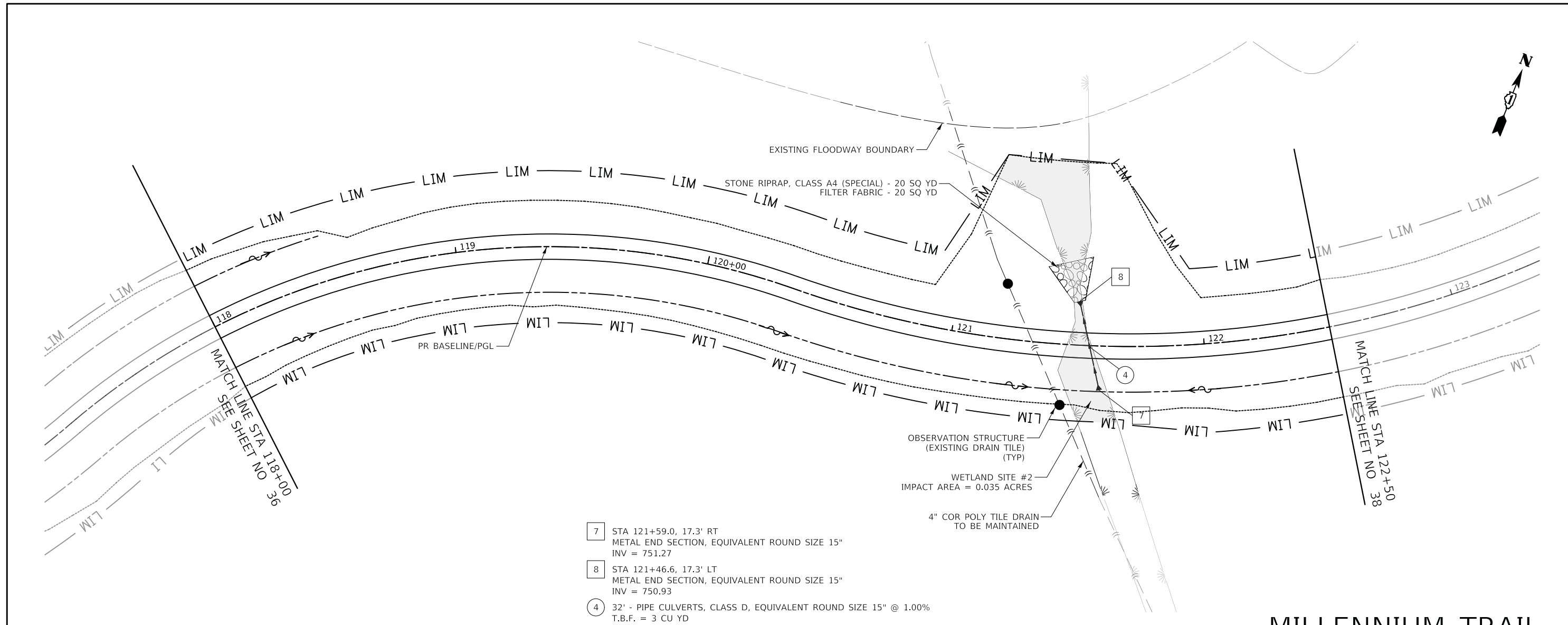
# MILLENNIUM TRAIL



<p>Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com</p>	DESIGNED - PK DRAWN - AAS CHECKED - JRV DATE - 05/15/2020	REVISED - REVISED - REVISED - REVISED -	<p align="center"><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p> <p>VERT. 0 5 10 HORIZ. 0 20 40</p> <p align="center"><b>SCALE</b></p>	<p align="center"><b>US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL TRAIL DRAINAGE AND UTILITIES</b></p>	F.A.P. RTE. 0334 SECTION 16-F3000-05-BT COUNTY LAKE TOTAL SHEETS 146 SHEET NO. 36 CONTRACT NO. 61G65
	SHEET 4 OF 10 SHEETS STA. 114+00 TO STA. 118+00	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

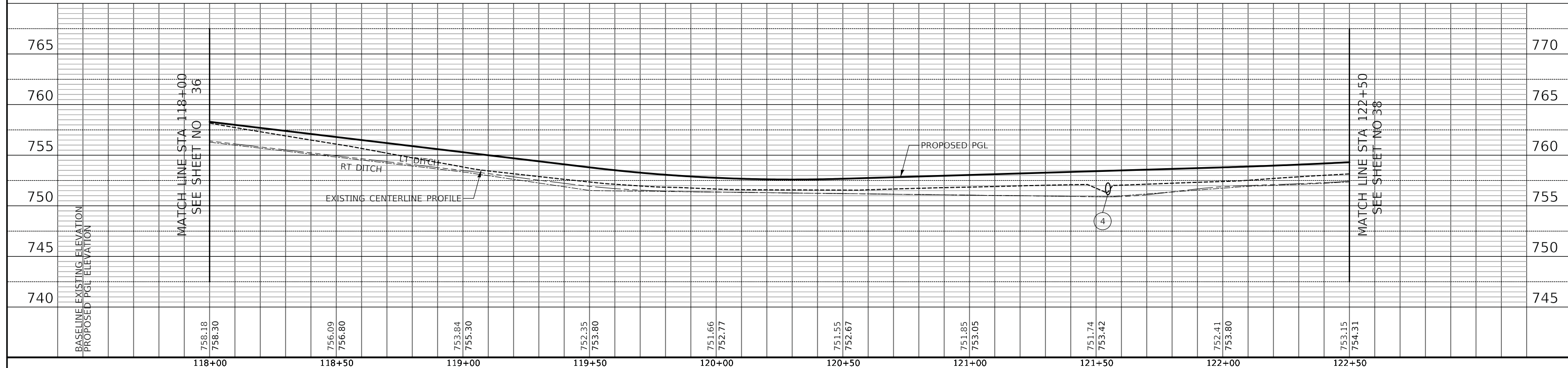
FINAL SURVEY NO.	SURVEYED BY	DATE

ORIGINAL SURVEY NO.	SURVEYED BY	DATE



- 7 STA 121+59.0, 17.3' RT  
METAL END SECTION, EQUIVALENT ROUND SIZE 15"  
INV = 751.27
- 8 STA 121+46.6, 17.3' LT  
METAL END SECTION, EQUIVALENT ROUND SIZE 15"  
INV = 750.93
- 4 32" - PIPE CULVERTS, CLASS D, EQUIVALENT ROUND SIZE 15" @ 1.00%  
T.B.F. = 3 CU YD

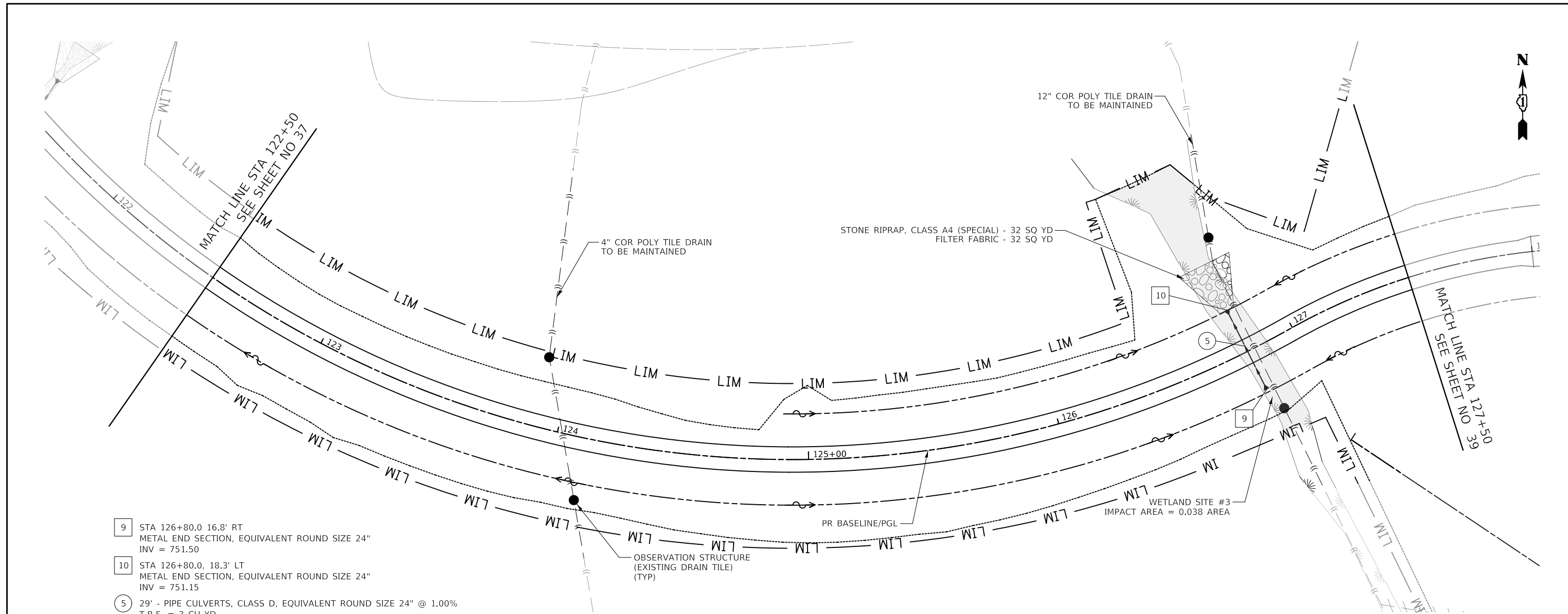
# MILLENNIUM TRAIL



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	SHEET 5 OF 10 SHEETS STA. 118+00 TO STA. 122+50						

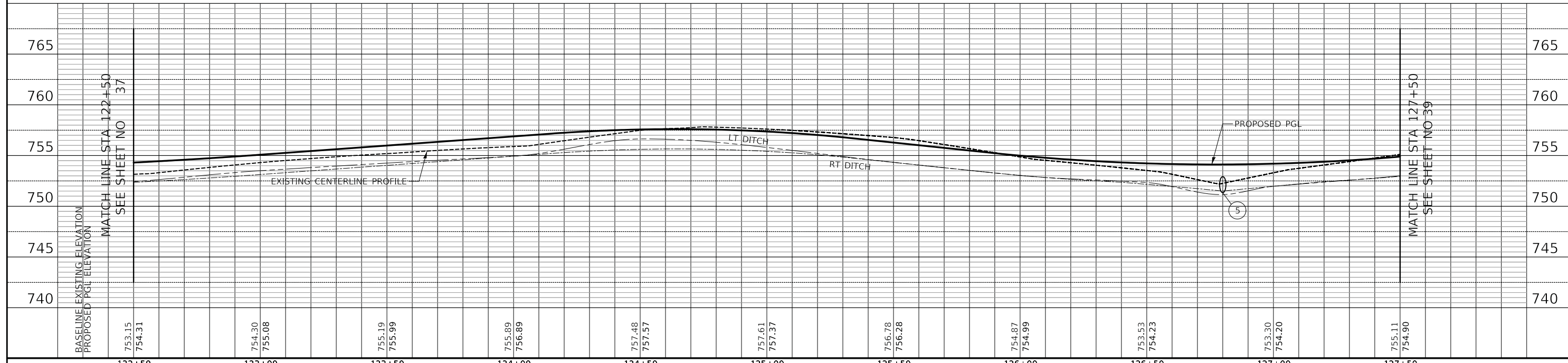
FINAL SURVEY NO.	SURVEYED BY	DATE
NO.	PLOTTED BY	
	TEMPLATE	
	AREAS CHECKED	

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



- 9 STA 126+80.0 16.8' RT  
METAL END SECTION, EQUIVALENT ROUND SIZE 24"  
INV = 751.50
- 10 STA 126+80.0, 18.3' LT  
METAL END SECTION, EQUIVALENT ROUND SIZE 24"  
INV = 751.15
- 5 29' - PIPE CULVERTS, CLASS D, EQUIVALENT ROUND SIZE 24" @ 1.00%  
T.B.F. = 3 CU YD

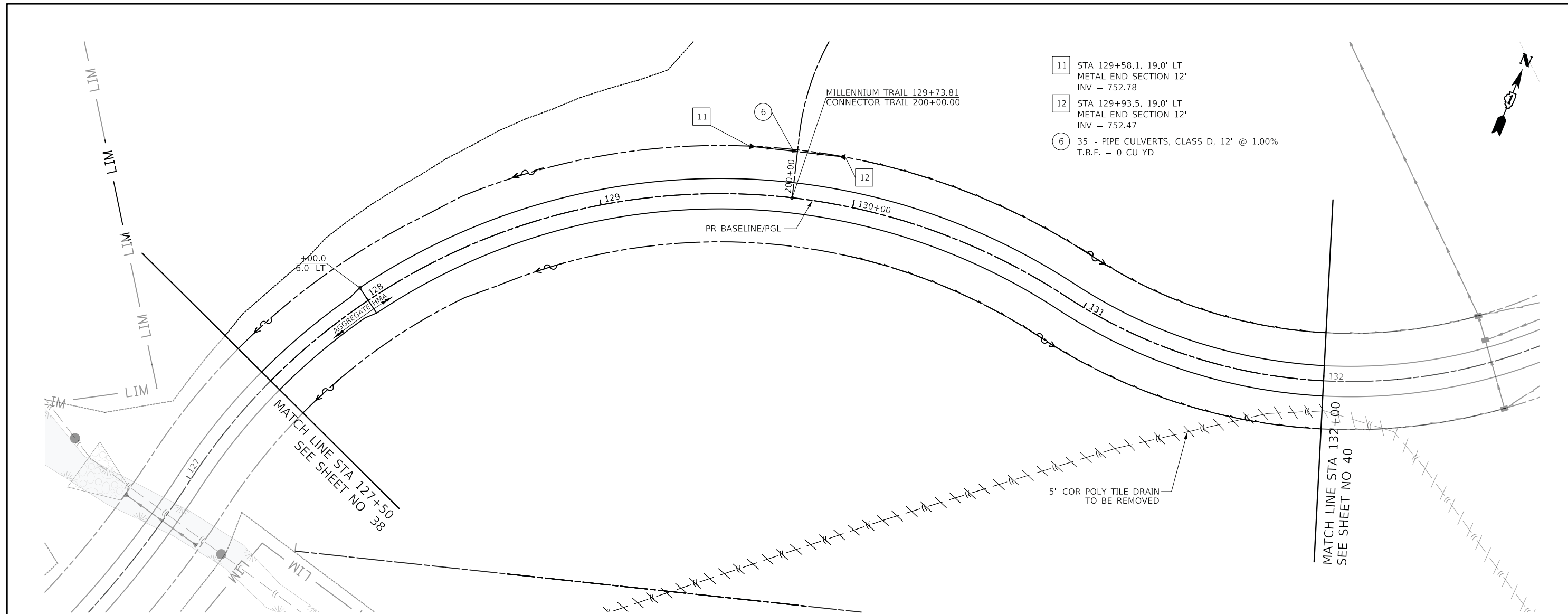
# MILLENNIUM TRAIL



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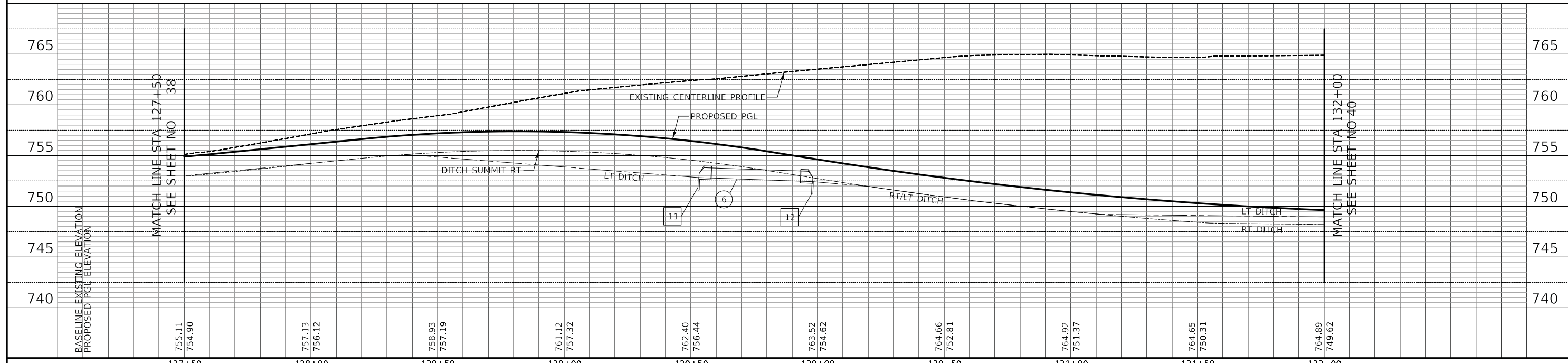
FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	PLOTTED BY	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	



- 11 STA 129+58.1, 19.0' LT METAL END SECTION 12" INV = 752.78
- 12 STA 129+93.5, 19.0' LT METAL END SECTION 12" INV = 752.47
- 6 35' - PIPE CULVERTS, CLASS D, 12" @ 1.00% T.B.F. = 0 CU YD

# MILLENNIUM TRAIL

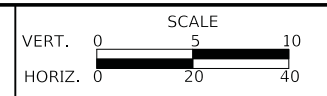


BASELINE EXISTING ELEVATION	755.11	757.13	758.93	761.12	762.40	763.52	764.66	764.92	764.65	764.89
PROPOSED PGL ELEVATION	754.90	756.12	757.19	757.32	756.44	754.62	752.81	751.37	750.31	749.62
	127+50	128+00	128+50	129+00	129+50	130+00	130+50	131+00	131+50	132+00

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CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

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



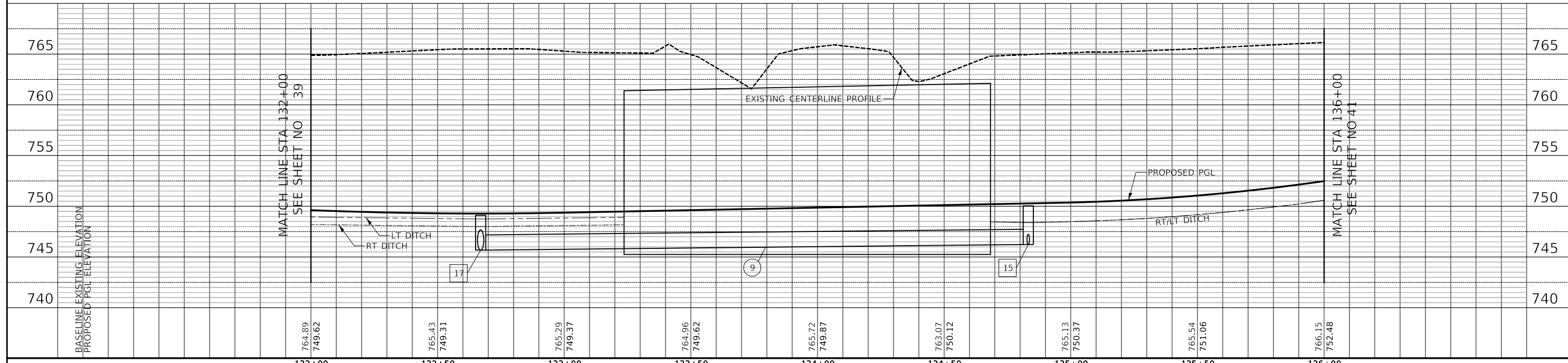
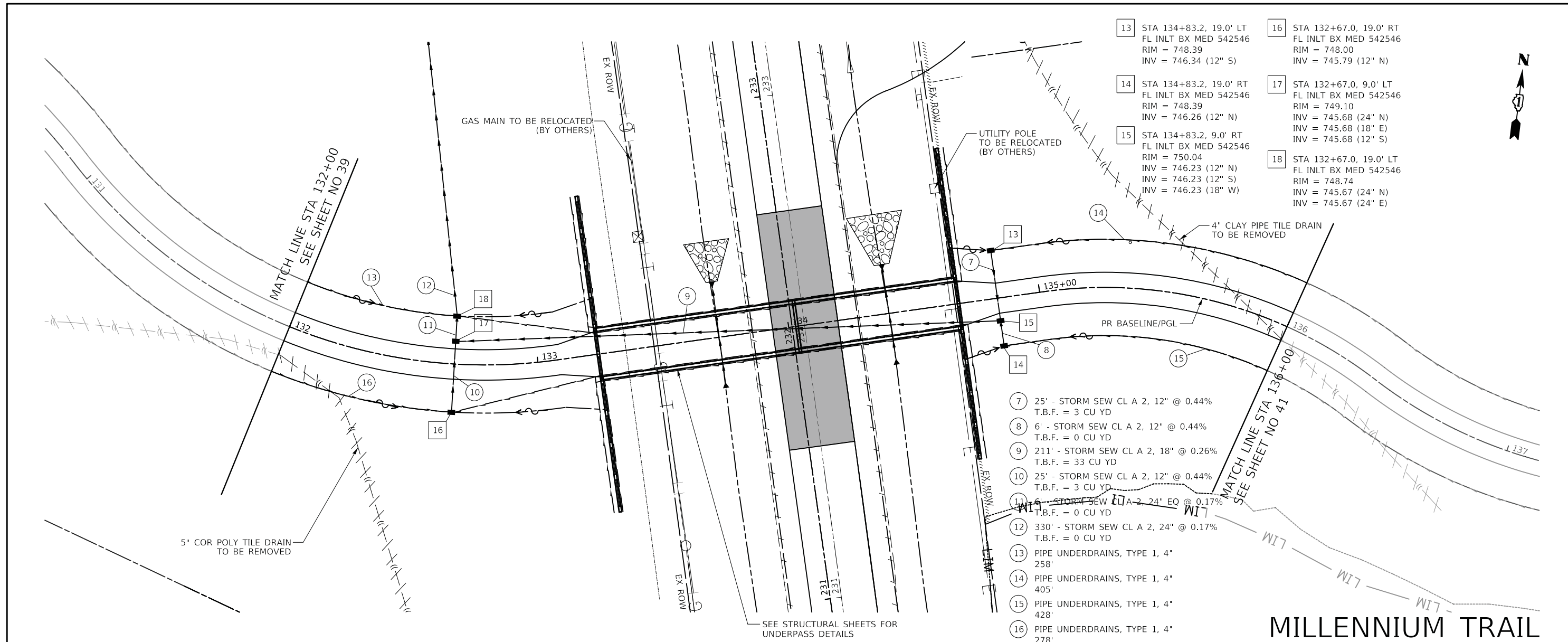
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**TRAIL DRAINAGE AND UTILITIES**

SHEET 7 OF 10 SHEETS STA. 127+50 TO STA. 132+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	39
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
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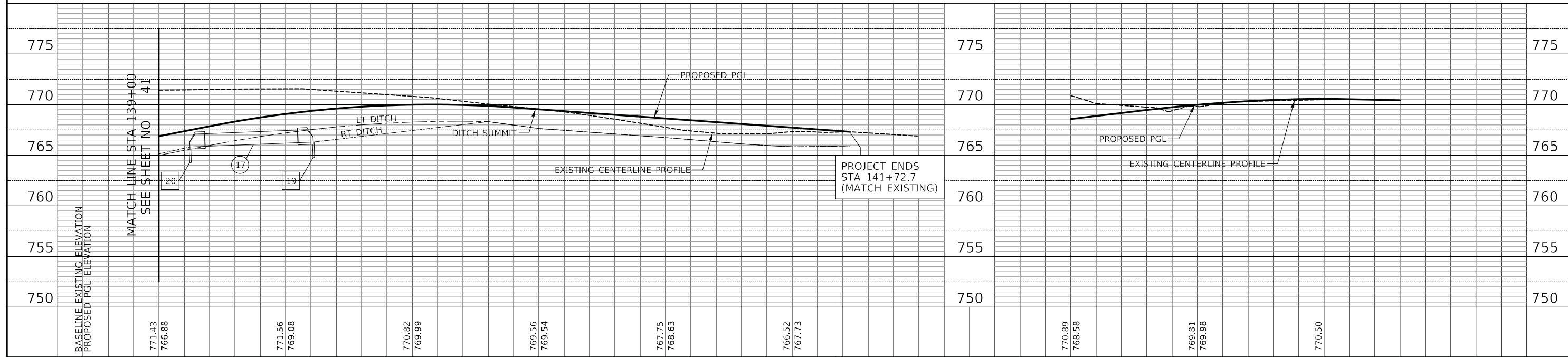
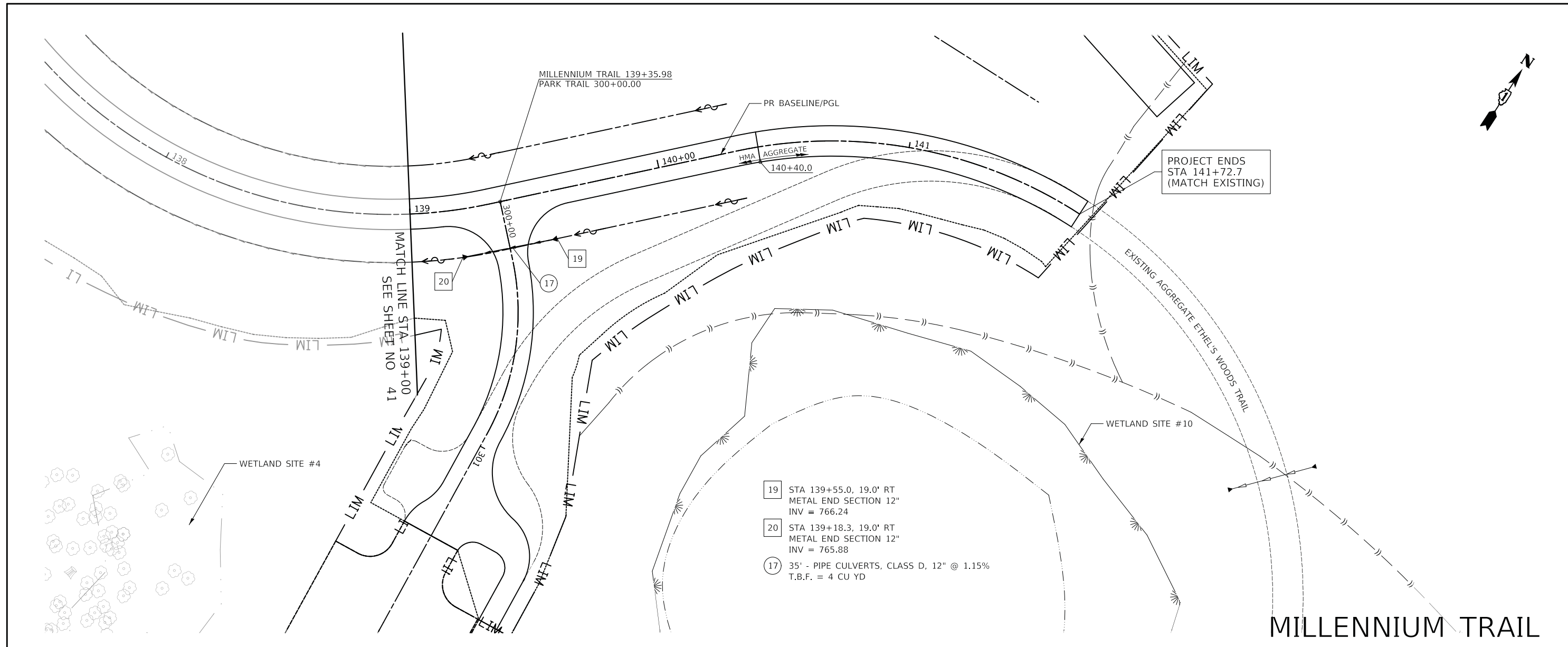






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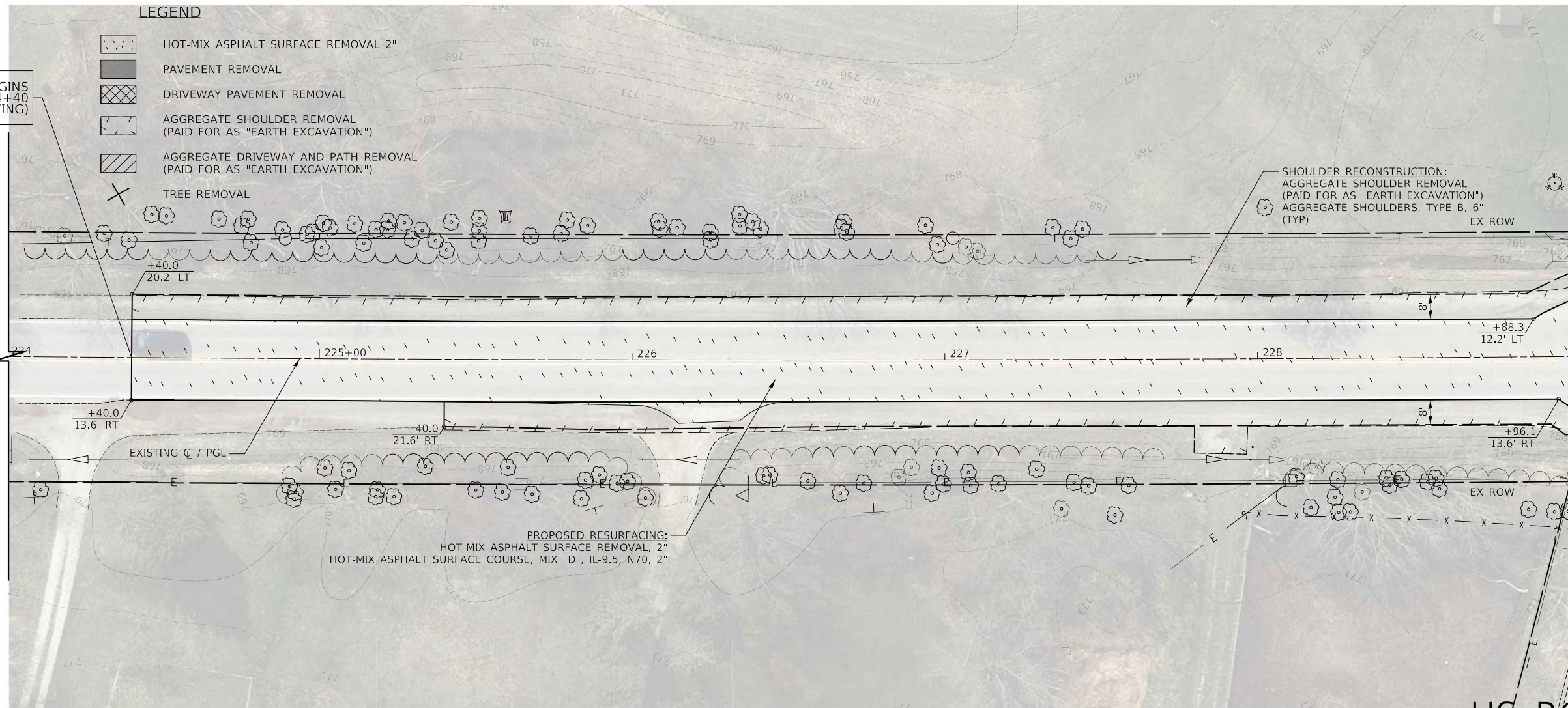


<p>Two Pierce Place, Suite 1400 Itasca, Illinois 60143 Tel: 630.773.3900 Fax: 630.773.3975 www.civiltechinc.com</p>	DESIGNED - PK DRAWN - AAS CHECKED - JRV DATE - 05/15/2020	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	VERT. 0 5 10 HORIZ. 0 20 40 SCALE	<b>US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL</b> <b>TRAIL DRAINAGE AND UTILITIES</b>	F.A.P. RTE. 0334 SECTION 16-F3000-05-BT COUNTY LAKE TOTAL SHEETS 146 SHEET NO. 42 CONTRACT NO. 61G65	SHEET 10 OF 10 SHEETS STA. 140+00 TO STA. 141+72.7	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
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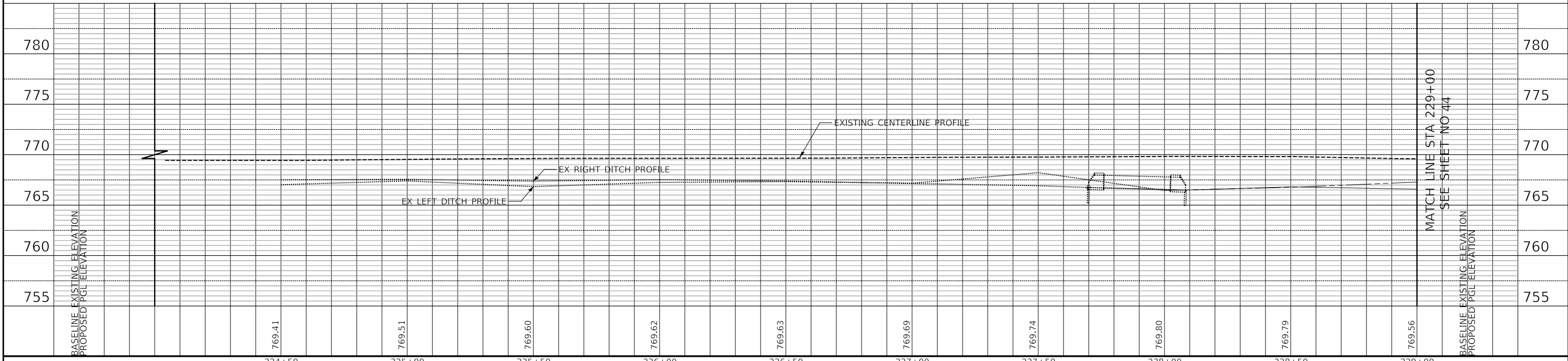


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FINAL SURVEY	
NOTE BOOK	
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TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



US ROUTE 45



224+50	225+00	225+50	226+00	226+50	227+00	227+50	228+00	228+50	229+00
769.41	769.51	769.60	769.62	769.63	769.69	769.74	769.80	769.79	769.56
DESIGNED - PK	REVISÉD -	DESIGNED - PK	REVISÉD -	DESIGNED - PK	REVISÉD -	DESIGNED - PK	REVISÉD -	DESIGNED - PK	REVISÉD -
DRAWN - AAS	REVISÉD -	DRAWN - AAS	REVISÉD -	DRAWN - AAS	REVISÉD -	DRAWN - AAS	REVISÉD -	DRAWN - AAS	REVISÉD -
CHECKED - JRV	REVISÉD -	CHECKED - JRV	REVISÉD -	CHECKED - JRV	REVISÉD -	CHECKED - JRV	REVISÉD -	CHECKED - JRV	REVISÉD -
DATE - 05/15/2020	REVISÉD -	DATE - 05/15/2020	REVISÉD -	DATE - 05/15/2020	REVISÉD -	DATE - 05/15/2020	REVISÉD -	DATE - 05/15/2020	REVISÉD -

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

SCALE  
 VERT. 0 5 10  
 HORIZ. 0 20 40

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 PLAN AND PROFILE /DRAINAGE AND UTILITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	43
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET 1 OF 3 SHEETS STA. 224+40 TO STA. 229+00

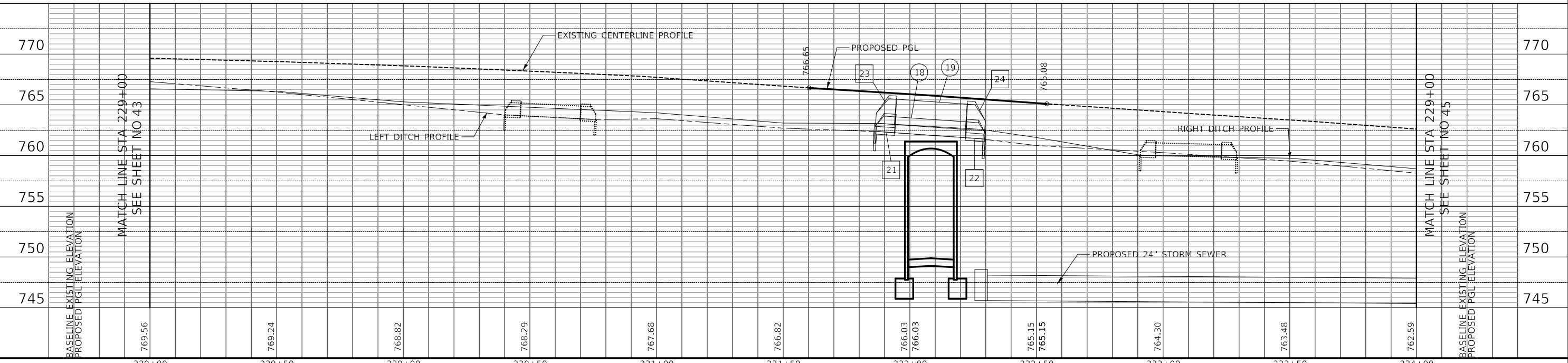
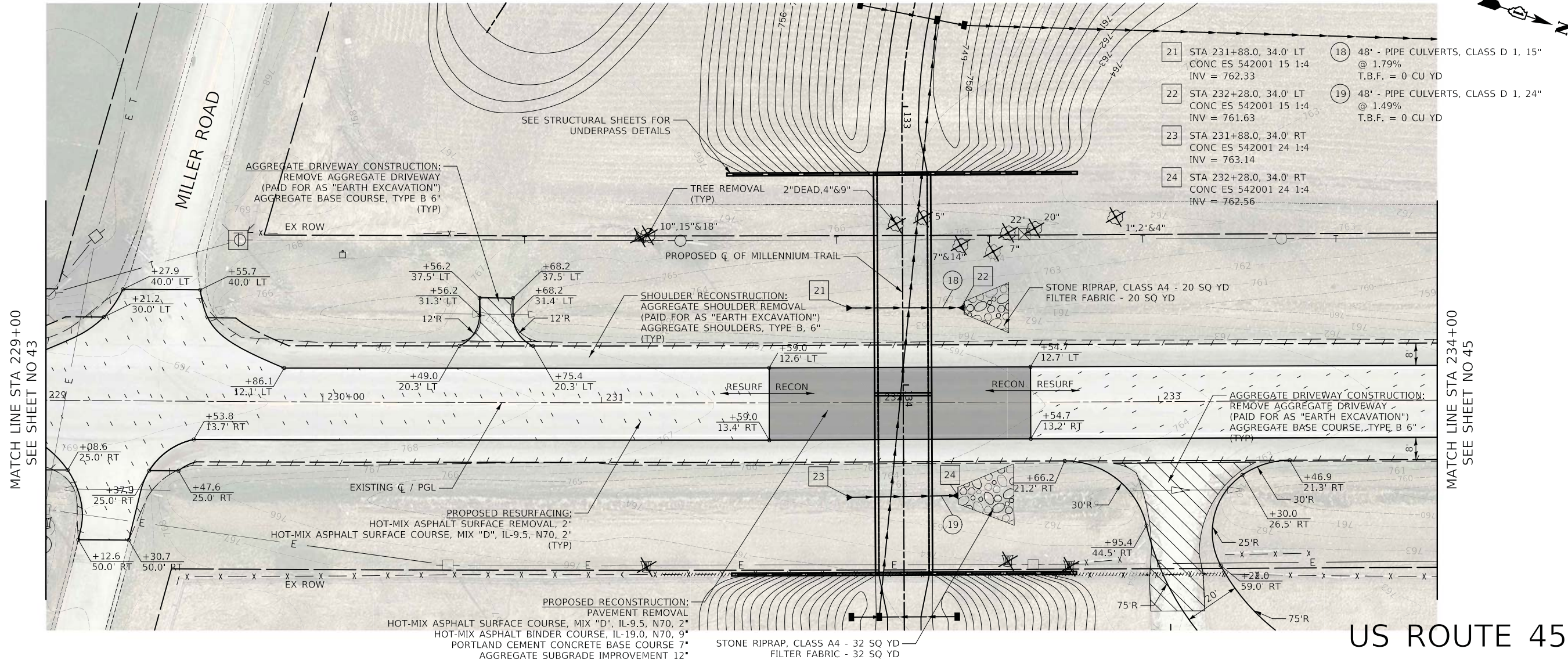
MATCH LINE STA 229+00  
SEE SHEET NO 44

MATCH LINE STA 229+00  
SEE SHEET NO 44



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NOTE BOOK	
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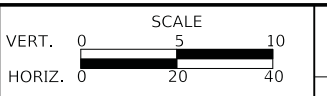


229+00	229+50	230+00	230+50	231+00	231+50	232+00	232+50	233+00	233+50	234+00
769.56	769.24	768.82	768.29	767.68	766.82	766.03 766.03	765.15 765.15	764.30	763.48	762.59

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DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

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



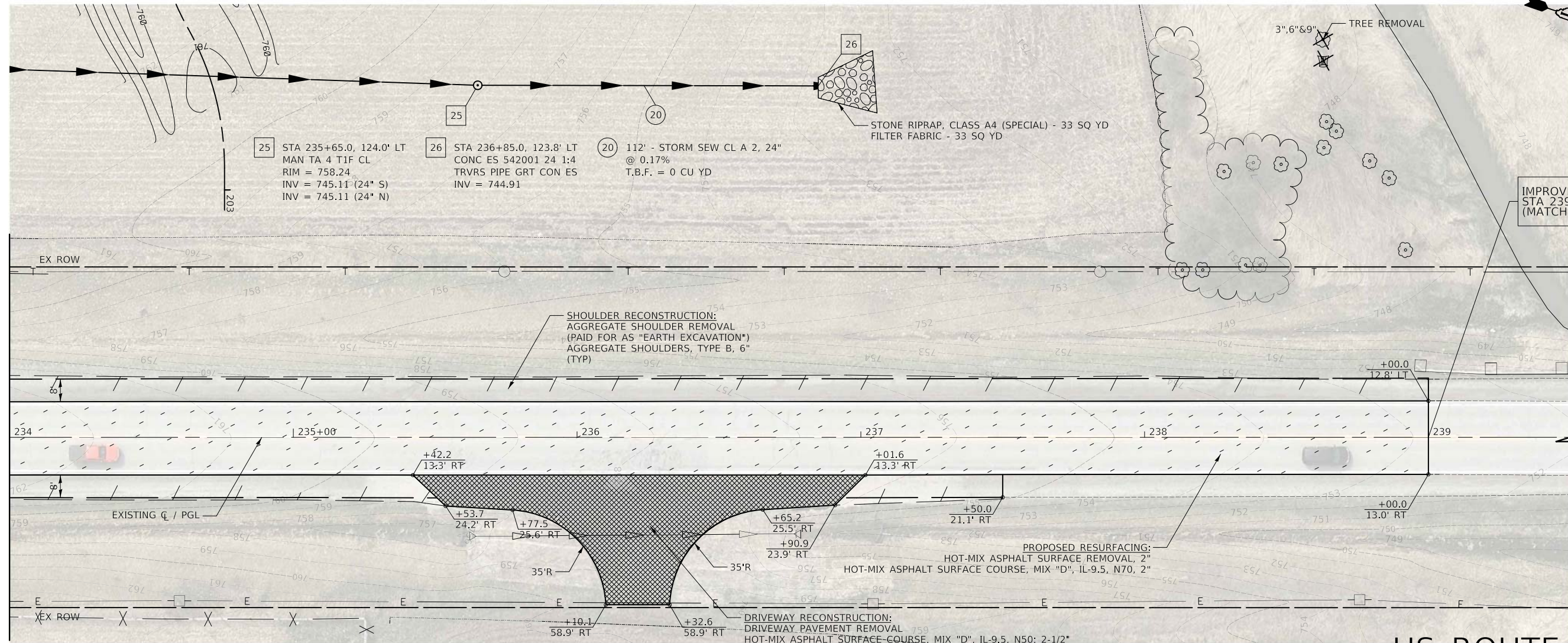
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 PLAN AND PROFILE / DRAINAGE AND UTILITIES**

SHEET 2 OF 3 SHEETS STA. 229+00 TO STA. 234+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	44
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

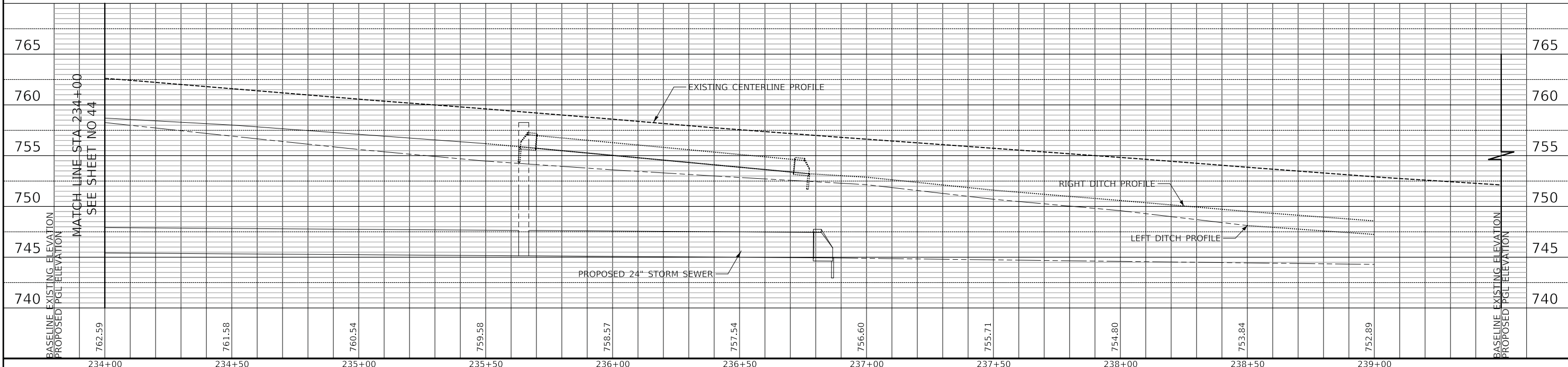
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS CHECKED		



MATCH LINE STA 234+00  
SEE SHEET NO 44

US ROUTE 45



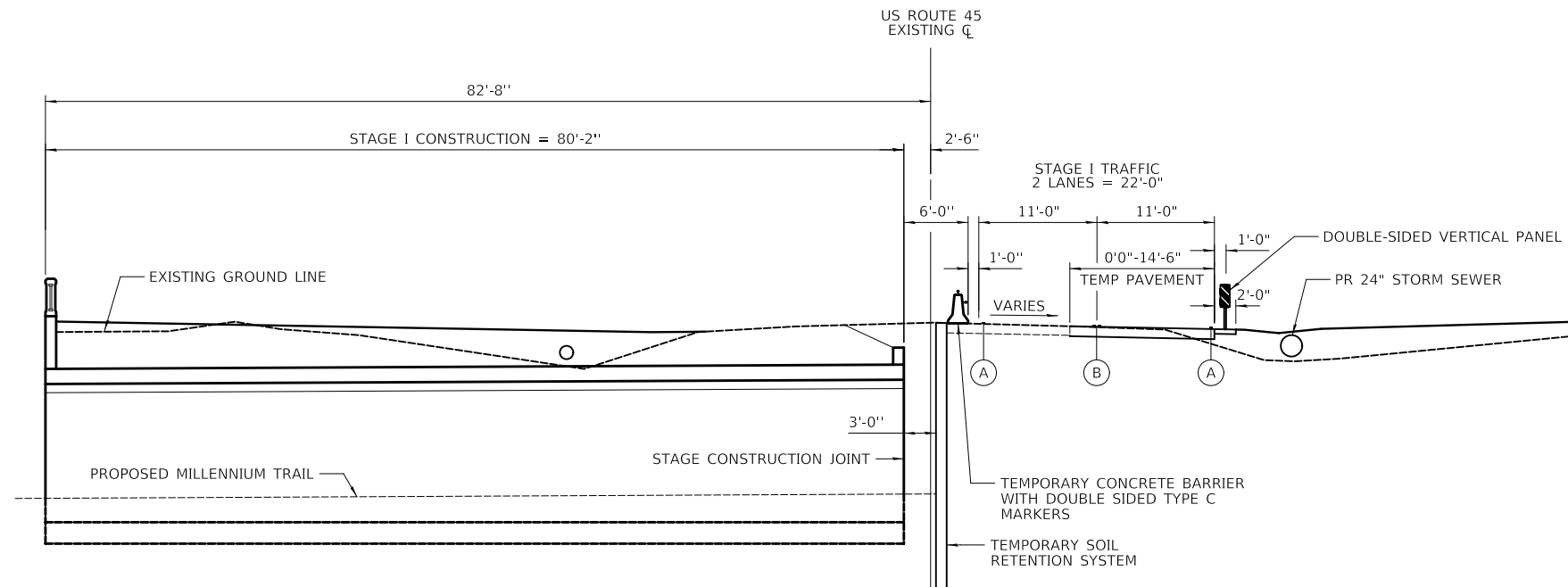
DESIGNED - PK	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SCALE VERT. 0 5 10 HORIZ. 0 20 40	<b>US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL</b> <b>US ROUTE 45 PLAN AND PROFILE /DRAINAGE AND UTILITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - AAS	REVISED -				0334	16-F3000-05-BT	LAKE	146	45
CHECKED - JRV	REVISED -				CONTRACT NO. 61G65				
DATE - 05/15/2020	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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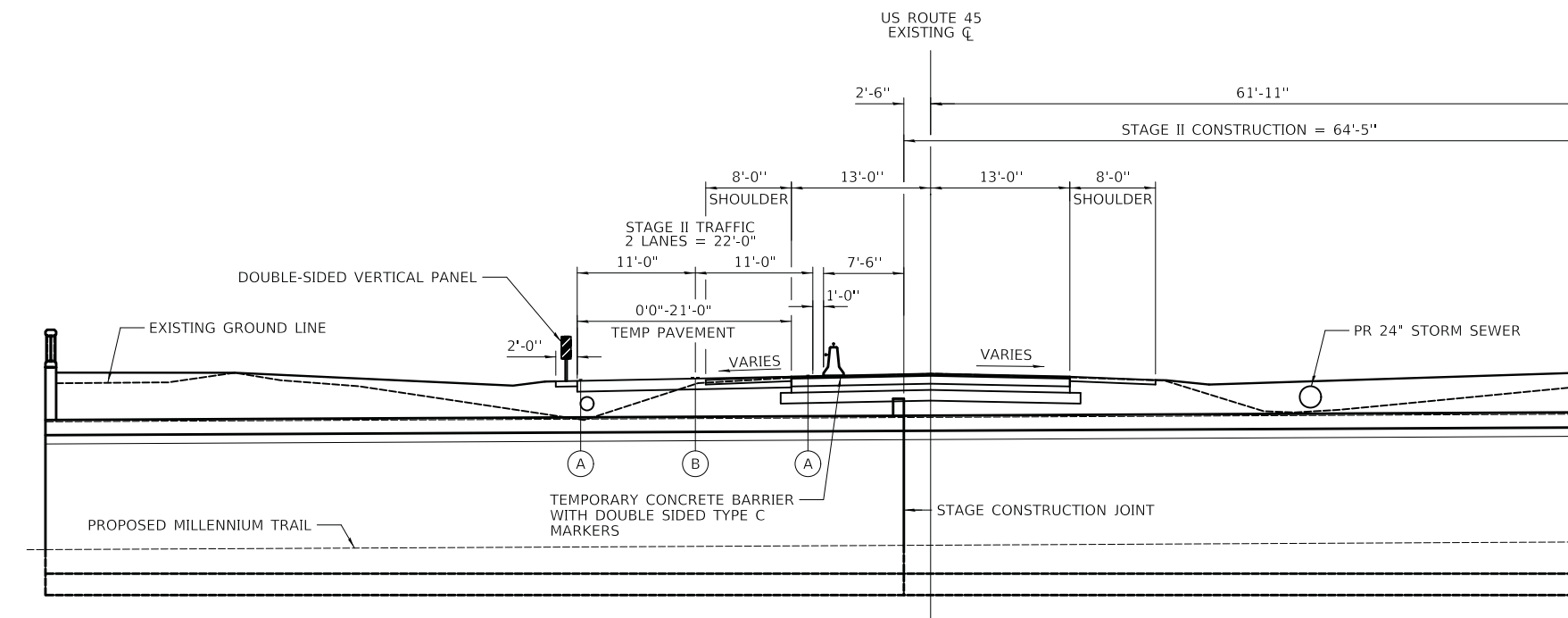
SHEET 3 OF 3 SHEETS STA. 234+00 TO STA. 239+00

DATE	
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TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



**STAGE I CONSTRUCTION**  
(LOOKING NORTH)



**STAGE II CONSTRUCTION**  
(LOOKING NORTH)

**PRE-STAGE**

INSTALL PERIMETER EROSION BARRIER AND EROSION CONTROL MEASURES. REMOVE EXISTING PAVEMENT MARKINGS ON US ROUTE 45. CLOSE NORTHBOUND SHOULDER UTILIZING STATE STANDARDS 701201 AND 701326. CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY DITCHES. REMOVE TREES IN CONFLICT. UTILITY POLES ARE TO BE RELOCATED BY OTHERS PRIOR TO TEMPORARY PAVEMENT CONSTRUCTION.

**STAGE 1 – CONSTRUCT WESTERN SECTION OF UNDERPASS**

CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY DITCHES ALONG NORTHBOUND US ROUTE 45. CONSTRUCT WESTERN PORTION OF US ROUTE 45 UNDERPASS AND BINDER COURSE. CONSTRUCT MILLENNIUM TRAIL WEST OF US ROUTE 45. INSTALL DITCH CHECKS. PLACE TEMPORARY SEEDING AS SHOWN ON THE PLANS.

ACCESS TO PRIVATE DRIVES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION EXCEPT FOR PERIODS OF SHORT DURATION WHEN APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH DETAIL LC7201.

**STAGE 2 – CONSTRUCT EASTERN SECTION OF UNDERPASS**

CONSTRUCT TEMPORARY PAVEMENT AND TEMPORARY DITCHES ALONG SOUTHBOUND US ROUTE 45. TRANSFER TRAFFIC FROM NORTHBOUND LANES TO SOUTHBOUND LANES AND TEMPORARY PAVEMENT. CONSTRUCT EASTERN PORTION OF US ROUTE 45 UNDERPASS AND BINDER COURSE. REMOVE TEMPORARY PAVEMENT ALONG SOUTHBOUND US ROUTE 45 AND CONSTRUCT SOUTHBOUND AGGREGATE SHOULDERS, CULVERT, AND DITCHES. CONSTRUCT MILLENNIUM TRAIL EAST OF US ROUTE 45. INSTALL DITCH CHECKS. PLACE TEMPORARY SEEDING AS SHOWN ON THE PLANS.

ACCESS TO PRIVATE DRIVES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION EXCEPT FOR PERIODS OF SHORT DURATION WHEN APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH DETAIL LC7201.

UPON COMPLETION OF UNDERPASS WORK AND AT THE DIRECTION OF THE ENGINEER THE TEMPORARY SOIL RETENTION SYSTEM, CONCRETE BARRIERS AND TEMPORARY PAVEMENT RAMPS SHALL BE REMOVED. FINAL SURFACE COURSE PAVING COMPLETED, ALONG WITH FINAL EARTHWORK GRADING, SHOULDER RESTORATION AND PERMANENT PAVEMENT MARKINGS WITHIN THE LIMITS OF US ROUTE 45.

PAVEMENT MARKING REMOVAL GRINDING SHALL BE USED ON EXISTING OR TEMPORARY PAVEMENTS THAT WILL BE RESURFACED OR REMOVED.

**STAGE 3 – RESURFACE US ROUTE 45**

REMOVE TEMPORARY PAVEMENT ALONG NORTHBOUND US ROUTE 45 AND CONSTRUCT NORTHBOUND AGGREGATE SHOULDERS, CULVERT, AND DITCHES. RESURFACE US ROUTE 45 FROM STA. 225+40 TO 239+00 AND PLACE FINAL PAVEMENT MARKINGS. PERFORM ROADSIDE WORK UTILIZING STATE STANDARD 701006 AND ALL PAVING AND STRIPING OPERATIONS USING STATE STANDARD 701501. TILL SOIL AND PLACE PERMANENT SEEDING IN ALL DISTURBED AREAS.

- (A) SOLID 4" WHITE LINE
- (B) 4" DOUBLE YELLOW @ 11" C-C  
TEMPORARY RAISED REFLECTIVE  
PAVEMENT MARKER @ 40' C-C

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

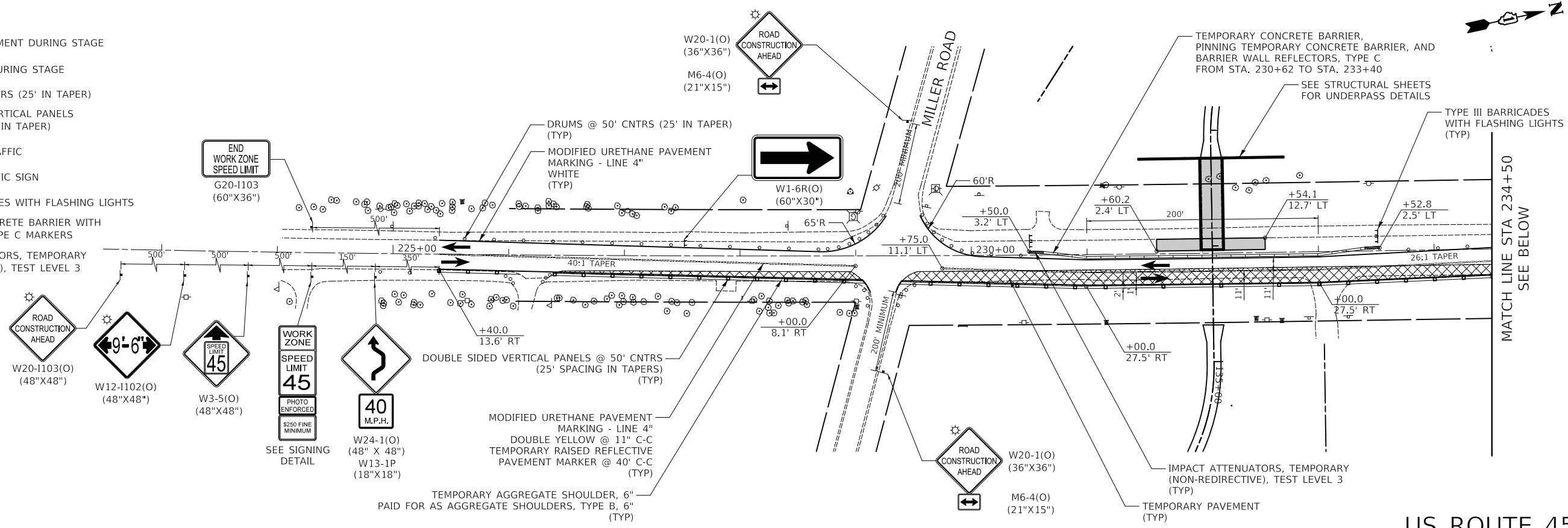
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

**LEGEND**

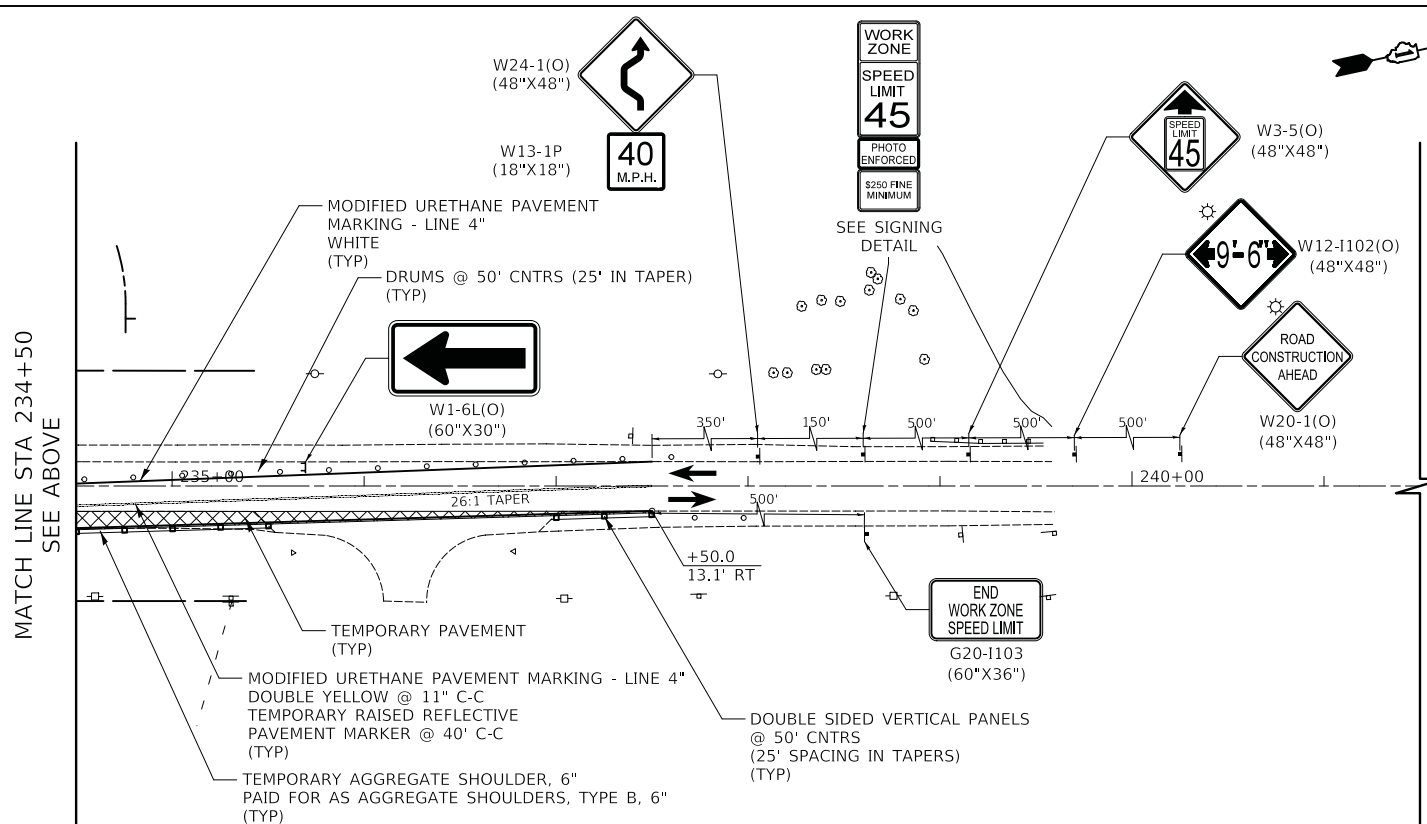
- TEMPORARY PAVEMENT DURING STAGE
- CONSTRUCTION DURING STAGE
- DRUMS @ 50' CNTRS (25' IN TAPER)
- DOUBLE-SIDED VERTICAL PANELS @ 50' CNTRS (25' IN TAPER)
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED TYPE C MARKERS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

**SIGNING DETAIL**

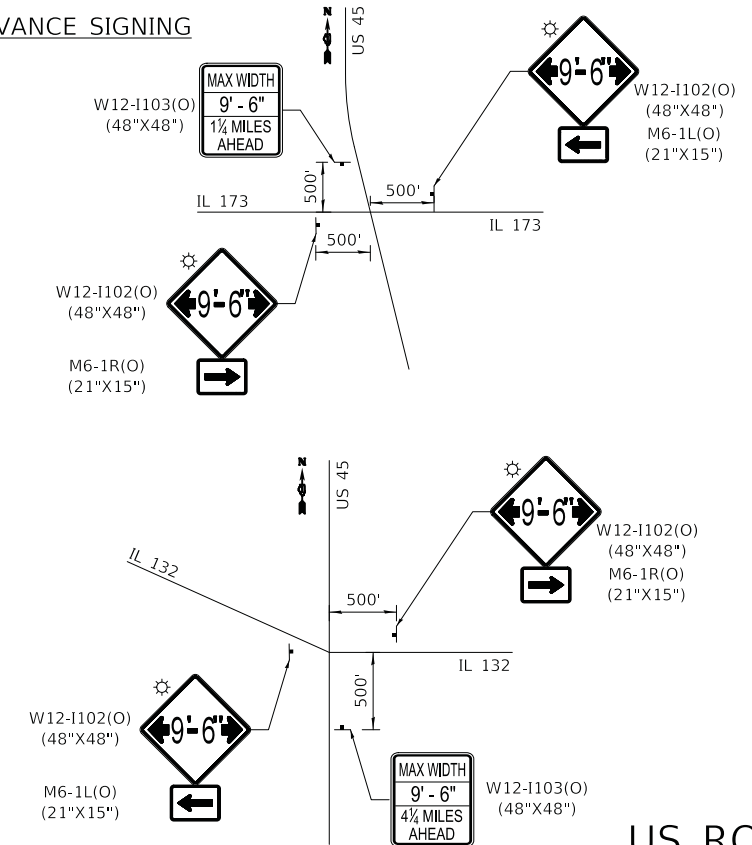
- WORK ZONE** W21-1115(O) (36"x18")
- SPEED LIMIT 45** R2-1 (36"x48")
- PHOTO ENFORCED** R10-1108P (36"x18")
- \$250 FINE MINIMUM** R2-1106P (36"x18")



US ROUTE 45



**ADVANCE SIGNING**



US ROUTE 45

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

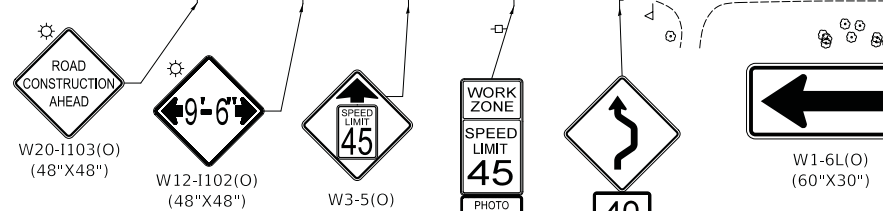
**LEGEND**

- TEMPORARY PAVEMENT DURING STAGE
- CONSTRUCTION DURING STAGE
- DRUMS @ 50' CNTRS (25' IN TAPER)
- DOUBLE-SIDED VERTICAL PANELS @ 50' CNTRS (25' IN TAPER)
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED TYPE C MARKERS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

**SIGNING DETAIL**

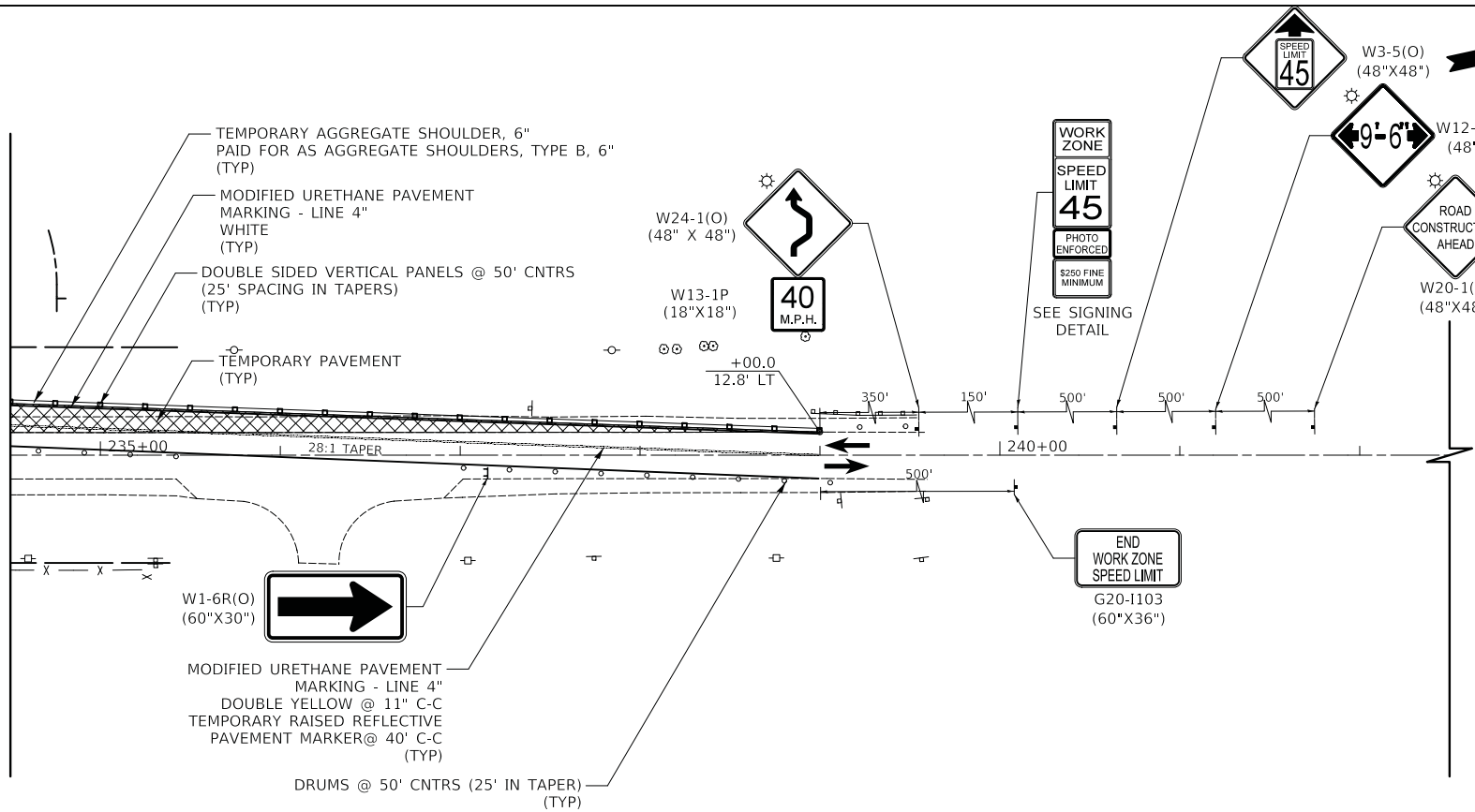
- WORK ZONE** W21-1115(O) (36"X18")
- SPEED LIMIT** R2-1 (36"X48") **45**
- PHOTO ENFORCED** R10-1108P (36"X18")
- \$250 FINE MINIMUM** R2-1106P (36"X18")

END WORK ZONE SPEED LIMIT  
G20-1103 (60"X36")

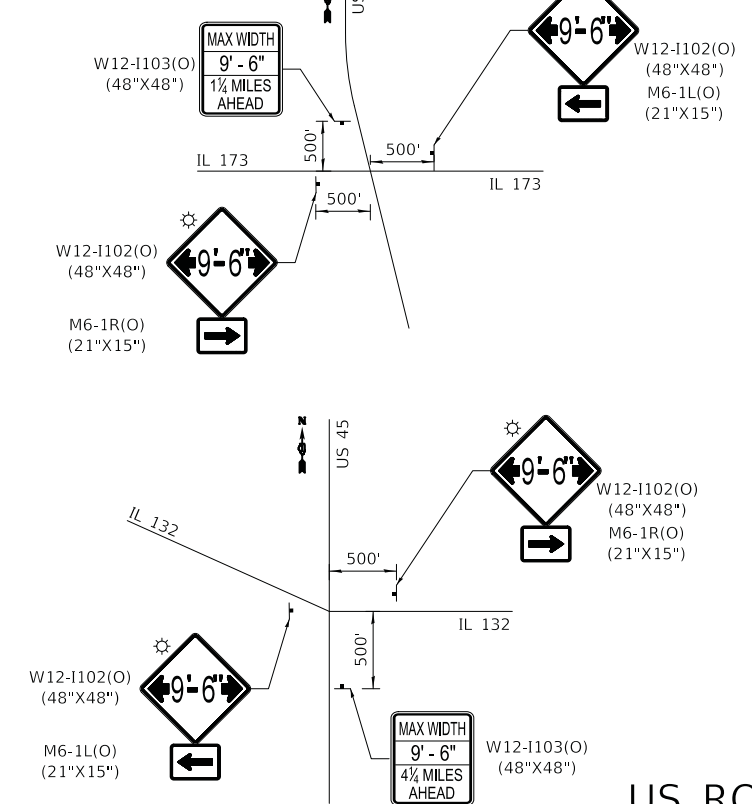


US ROUTE 45

MATCH LINE STA 234+50  
SEE ABOVE



**ADVANCE SIGNING**



US ROUTE 45

**CIVILTECH**  
Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - PK	REVISED -
DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
STAGES OF CONSTRUCTION / STAGE II**

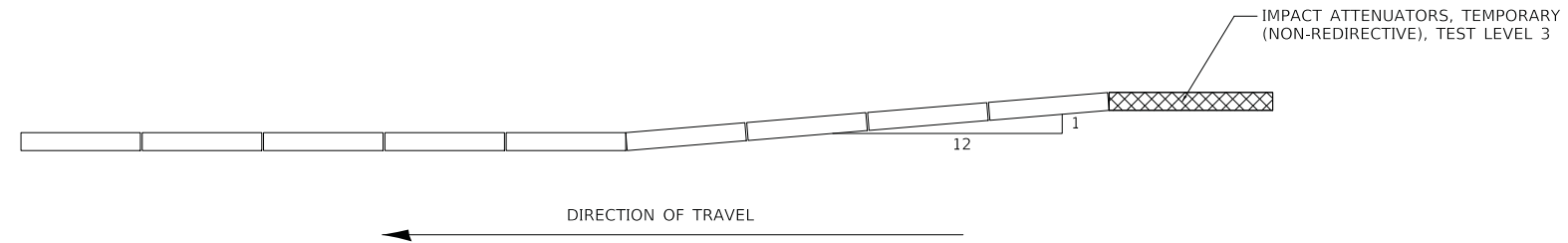
SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	48
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



**TEMPORARY CONCRETE BARRIER  
END TREATMENT DETAIL**



Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

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CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
STAGES OF CONSTRUCTION / DETAIL**

SHEET 1 OF 1 SHEETS STA. TO STA.

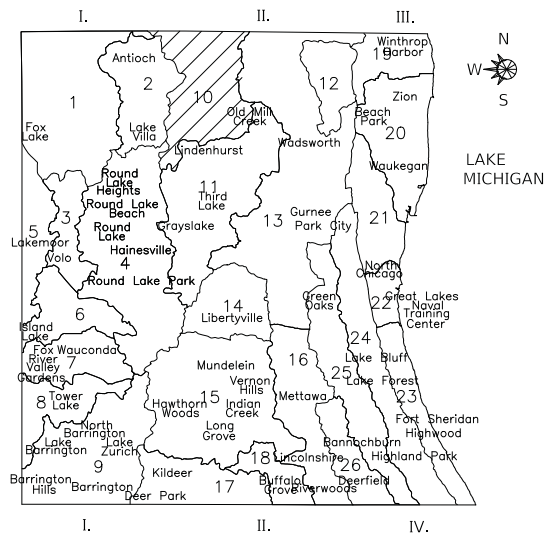
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	49
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

## SEDIMENTATION AND EROSION CONTROL NOTES

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:  
 -UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.  
 -AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. 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.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

## DRAINAGE BASINS OF LAKE COUNTY

- I. FOX RIVER WATERSHED
1. UPPER FOX RIVER
  2. SEQUOIT CREEK
  3. FISH LAKE DRAIN
  4. SQUAW CREEK
  5. LOWER FOX RIVER
  6. MUTTON CREEK
  7. SLOCUM 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. APTAKISIC 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



## NPDES STATEMENT:

THIS PROJECT DISTURBS 16.8 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1.0 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT IS REQUIRED FOR THIS PROJECT.

## SMC TYPICAL CONSTRUCTION SEQUENCE

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
  - A. SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
  - B. SILT FENCE INSTALLATION
  - C. CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
  - D. STABILIZED CONSTRUCTION ENTRANCE
2. TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB)
3. CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS\*)
4. CONSTRUCT DETENTION FACILITIES AND OUTLET CONTROL STRUCTURE WITH RESTRICTOR & TEMPORARY PERFORATED RISER
5. STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
6. TEMPORARILY STABILIZE TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE)
7. INSTALL STORM SEWER, SANITARY SEWER, WATER AND ASSOCIATED INLET & OUTLET PROTECTION
8. PERMANENTLY STABILIZE DETENTION BASINS WITH SEED AND EROSION CONTROL BLANKET
9. TEMPORARILY STABILIZE ALL AREAS INCLUDING LOTS THAT HAVE REACHED TEMPORARY GRADE
10. INSTALL ROADWAYS
11. PERMANENTLY STABILIZE ALL OUTLOT AREAS
12. INSTALL STRUCTURES AND GRADE INDIVIDUAL LOTS
13. PERMANENTLY STABILIZE LOTS
14. REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION

\* SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY ½ OR GREATER RAINFALL EVENT











## NOTES

1. STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED BY THE ENGINEER.
2. SHOULDER AREAS THROUGH BACKSIDE OF THE SWALE SHALL BE RESTORED WITH SEEDING, CLASS 2 (SPECIAL) AND ALL OTHER AREAS SHALL BE RESTORED WITH PRAIRIE SEEDING (SPECIAL).
3. QUANTITIES HAVE BEEN PROVIDED FOR EROSION CONTROL BLANKET (SPECIAL), TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET SPECIAL, FLOCCULATION LOGS, FLOCCULATION POWDER, MULCH METHOD 3, AND TEMPORARY SEEDING TO BE USED AT THE DIRECTION OF THE RESIDENT ENGINEER.

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

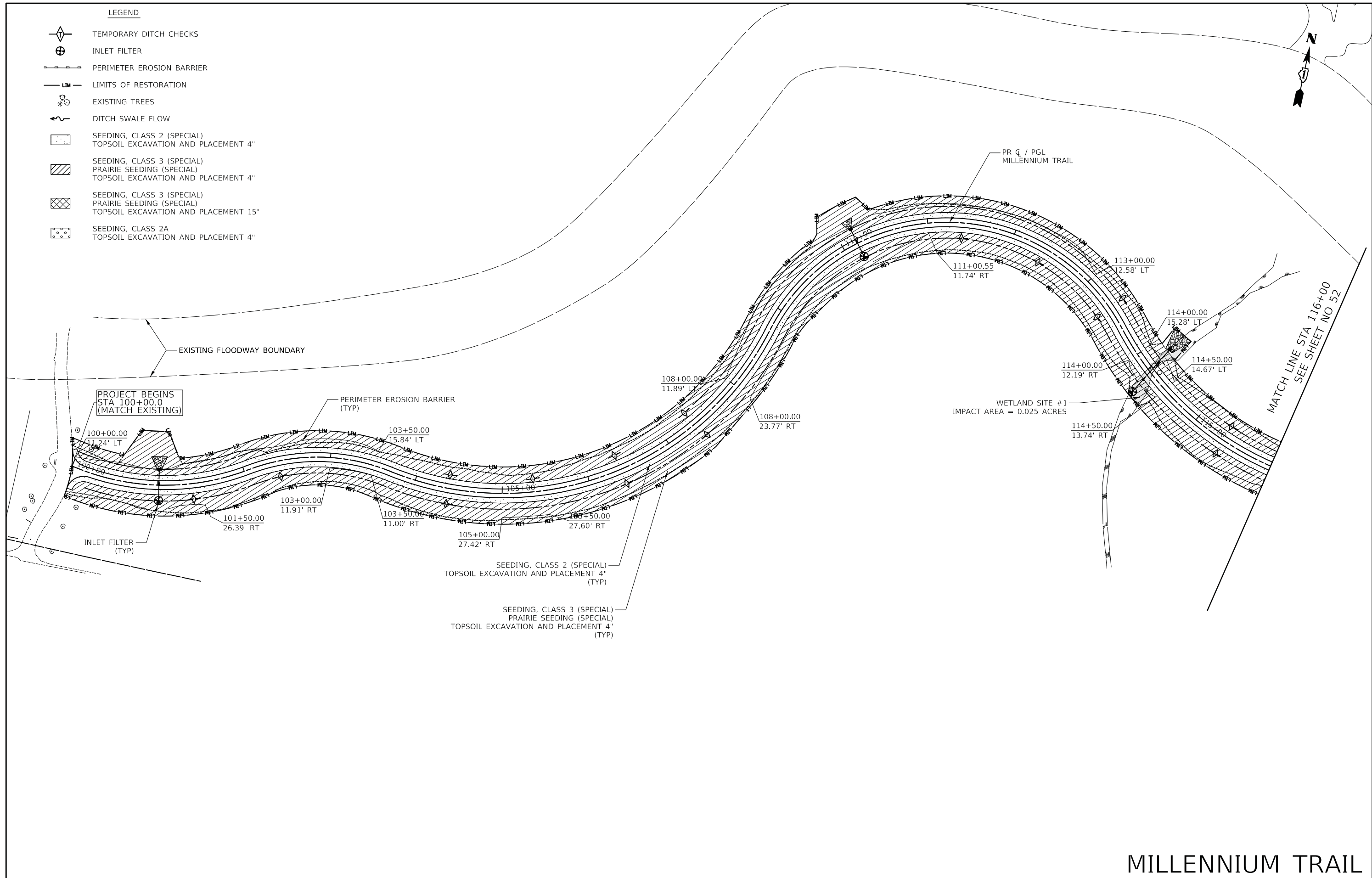
DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
ORIGINAL SURVEY NOTE BOOK NO.					

LEGEND

-  TEMPORARY DITCH CHECKS
-  INLET FILTER
-  PERIMETER EROSION BARRIER
-  LIMITS OF RESTORATION
-  EXISTING TREES
-  DITCH SWALE FLOW
-  SEEDING, CLASS 2 (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"
-  SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"
-  SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 15"
-  SEEDING, CLASS 2A (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"

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

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

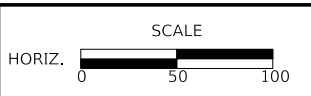


MILLENNIUM TRAIL

**CIVILTECH**  
Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - PK	REVISED -
DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**













**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
TRAIL EROSION CONTROL AND LANDSCAPING**

SHEET 1 OF 4 SHEETS STA. 100+00 TO STA. 116+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	51
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

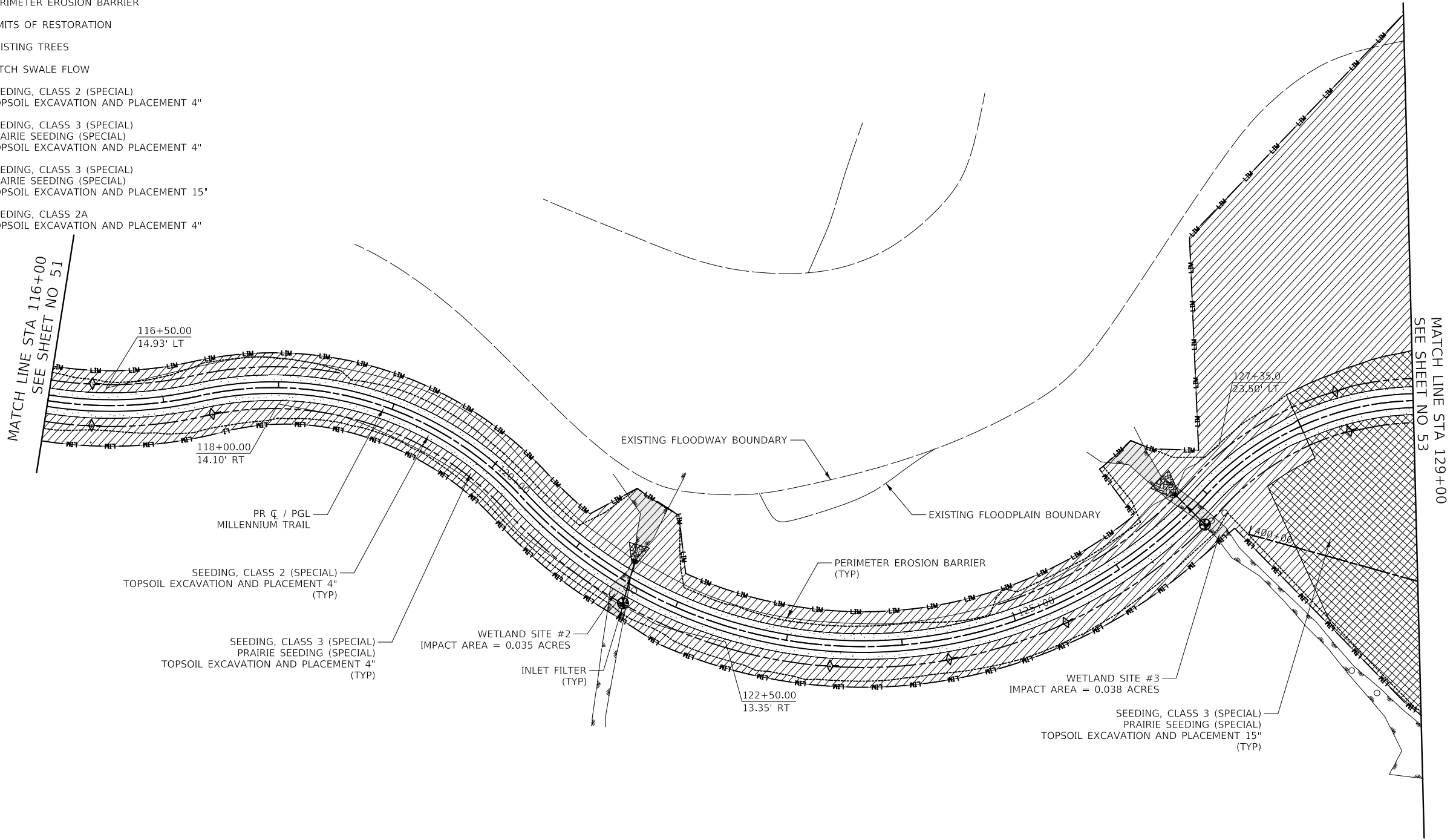
LEGEND

-  TEMPORARY DITCH CHECKS
-  INLET FILTER
-  PERIMETER EROSION BARRIER
-  LIMITS OF RESTORATION
-  EXISTING TREES
-  DITCH SWALE FLOW
-  SEEDING, CLASS 2 (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"
-  SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"
-  SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 15"
-  SEEDING, CLASS 2A  
TOPSOIL EXCAVATION AND PLACEMENT 4"



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

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



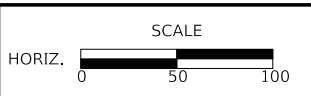
# MILLENNIUM TRAIL



Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - PK	REVISED -
DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
TRAIL EROSION CONTROL AND LANDSCAPING**

SHEET 2 OF 4 SHEETS STA. 116+00 TO STA. 129+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	52
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

TURBIDITY CURTAIN - 56 SQ YD  
TURBIDITY CURTAIN - 46 SQ YD  
TEMPORARY SEDIMENT TRAP  
(PAID FOR AS EARTH EXCAVATION  
FOR EROSION CONTROL, FILTER FABRIC,  
AGGREGATE BASE COURSE, TYPE B,  
STONE RIPRAP CLASS A4)

EXISTING FLOODWAY BOUNDARY  
SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"  
(TYP)

MATCH LINE STA 129+00  
SEE SHEET NO 52

SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 15"  
(TYP)

LEGEND

	TEMPORARY DITCH CHECKS
	INLET FILTER
	PERIMETER EROSION BARRIER
	LIMITS OF RESTORATION
	EXISTING TREES
	DITCH SWALE FLOW
	SEEDING, CLASS 2 (SPECIAL) TOPSOIL EXCAVATION AND PLACEMENT 4"
	SEEDING, CLASS 3 (SPECIAL) PRAIRIE SEEDING (SPECIAL) TOPSOIL EXCAVATION AND PLACEMENT 4"
	SEEDING, CLASS 3 (SPECIAL) PRAIRIE SEEDING (SPECIAL) TOPSOIL EXCAVATION AND PLACEMENT 15"
	SEEDING, CLASS 2A TOPSOIL EXCAVATION AND PLACEMENT 4"



PROJECT ENDS  
STA 141+72.7  
(MATCH EXISTING)

SEEDING, CLASS 2 (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"  
(TYP)

INLET FILTER  
(TYP)

PR Q / PGL  
MILLENNIUM TRAIL

SEE SHEET 54 FOR ROUTE 45 LANDSCAPING PLAN

# MILLENNIUM TRAIL

**CIVILTECH**  
Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

DESIGNED - PK	REVISED -
DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**











SCALE  
HORIZ. 0 50 100

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
TRAIL EROSION CONTROL AND LANDSCAPING**

SHEET 3 OF 4 SHEETS STA. 129+00 TO STA. 141+72.7

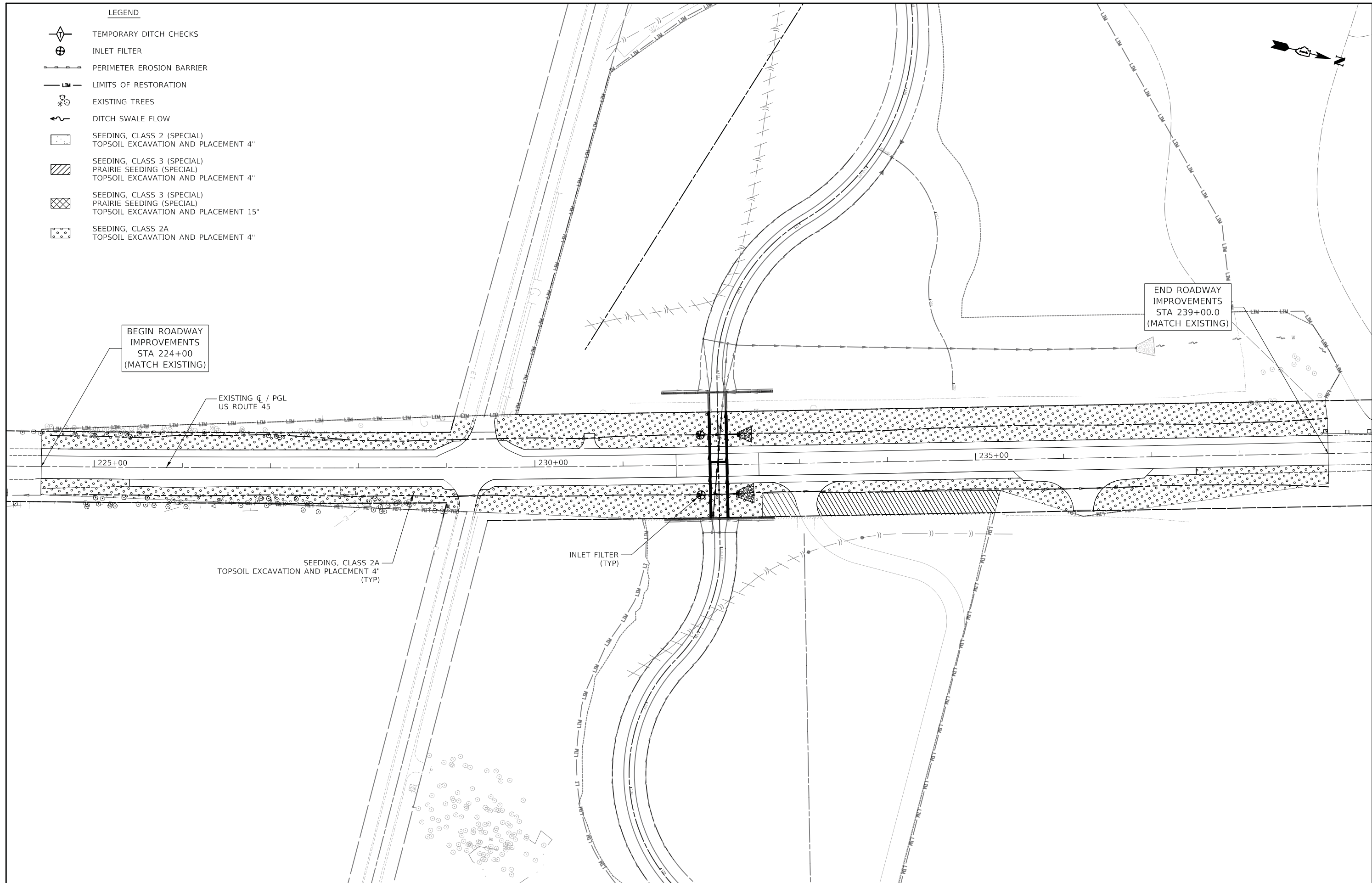
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	53
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

-  TEMPORARY DITCH CHECKS
-  INLET FILTER
-  PERIMETER EROSION BARRIER
-  LIMITS OF RESTORATION
-  EXISTING TREES
-  DITCH SWALE FLOW
-  SEEDING, CLASS 2 (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"
-  SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 4"
-  SEEDING, CLASS 3 (SPECIAL)  
PRAIRIE SEEDING (SPECIAL)  
TOPSOIL EXCAVATION AND PLACEMENT 15"
-  SEEDING, CLASS 2A  
TOPSOIL EXCAVATION AND PLACEMENT 4"

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

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



BEGIN ROADWAY IMPROVEMENTS STA 224+00 (MATCH EXISTING)

END ROADWAY IMPROVEMENTS STA 239+00.0 (MATCH EXISTING)

SEEDING, CLASS 2A TOPSOIL EXCAVATION AND PLACEMENT 4" (TYP)

INLET FILTER (TYP)

EXISTING Q / PGL US ROUTE 45



Two Pierce Place, Suite 1400  
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DATE	- 05/15/2020	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
TRAIL EROSION CONTROL AND LANDSCAPING

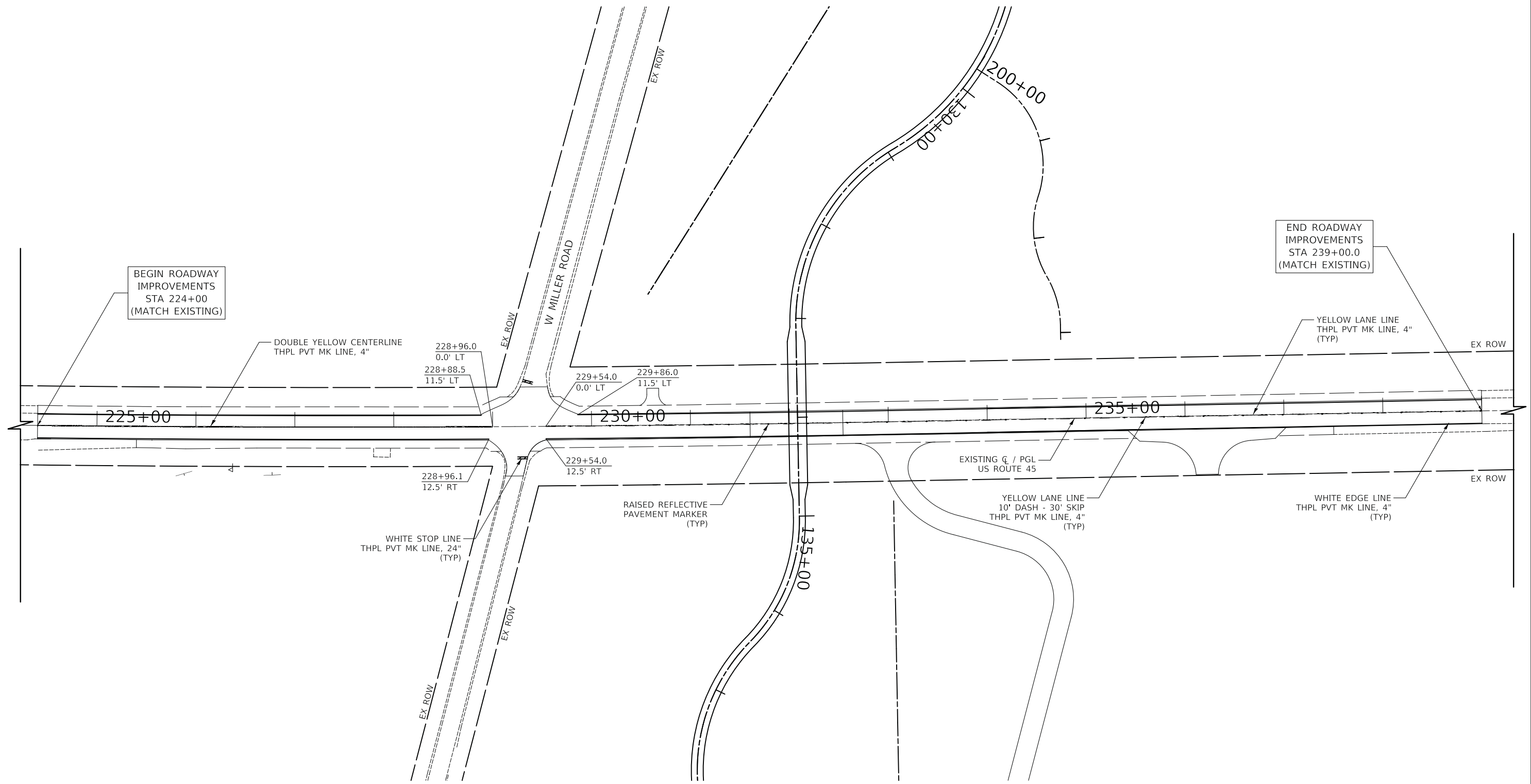
SHEET 4 OF 4 SHEETS STA. 100+00 TO STA. 116+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	54
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

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



BEGIN ROADWAY IMPROVEMENTS STA 224+00 (MATCH EXISTING)

DOUBLE YELLOW CENTERLINE THPL PVT MK LINE, 4"

228+96.0  
0.0' LT  
228+88.5  
11.5' LT

229+54.0  
0.0' LT  
229+86.0  
11.5' LT

END ROADWAY IMPROVEMENTS STA 239+00.0 (MATCH EXISTING)

YELLOW LANE LINE THPL PVT MK LINE, 4" (TYP)

225+00

230+00

235+00

228+96.1  
12.5' RT

229+54.0  
12.5' RT

EXISTING Q / PGL US ROUTE 45

WHITE STOP LINE THPL PVT MK LINE, 24" (TYP)

RAISED REFLECTIVE PAVEMENT MARKER (TYP)

YELLOW LANE LINE 10' DASH - 30' SKIP THPL PVT MK LINE, 4" (TYP)

WHITE EDGE LINE THPL PVT MK LINE, 4" (TYP)

W MILLER ROAD

200+00

135+00

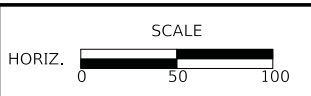
US ROUTE 45



Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
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DESIGNED - PK	REVISED -
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DATE - 05/15/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION








US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
PAVEMENT MARKING AND SIGNING

SHEET 1 OF 1 SHEETS STA. 224+40 TO STA. 239+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	55
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**LEGEND**

-  UNDERPASS LUMINAIRE (SPECIAL)
-  RIGID GALVANIZED STEEL CONDUIT, TYPE AND SIZE AS NOTED
-  JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 8"x8"x6"
-  PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60 AMP
-  PROPOSED POWER POLE

**NOTES:**

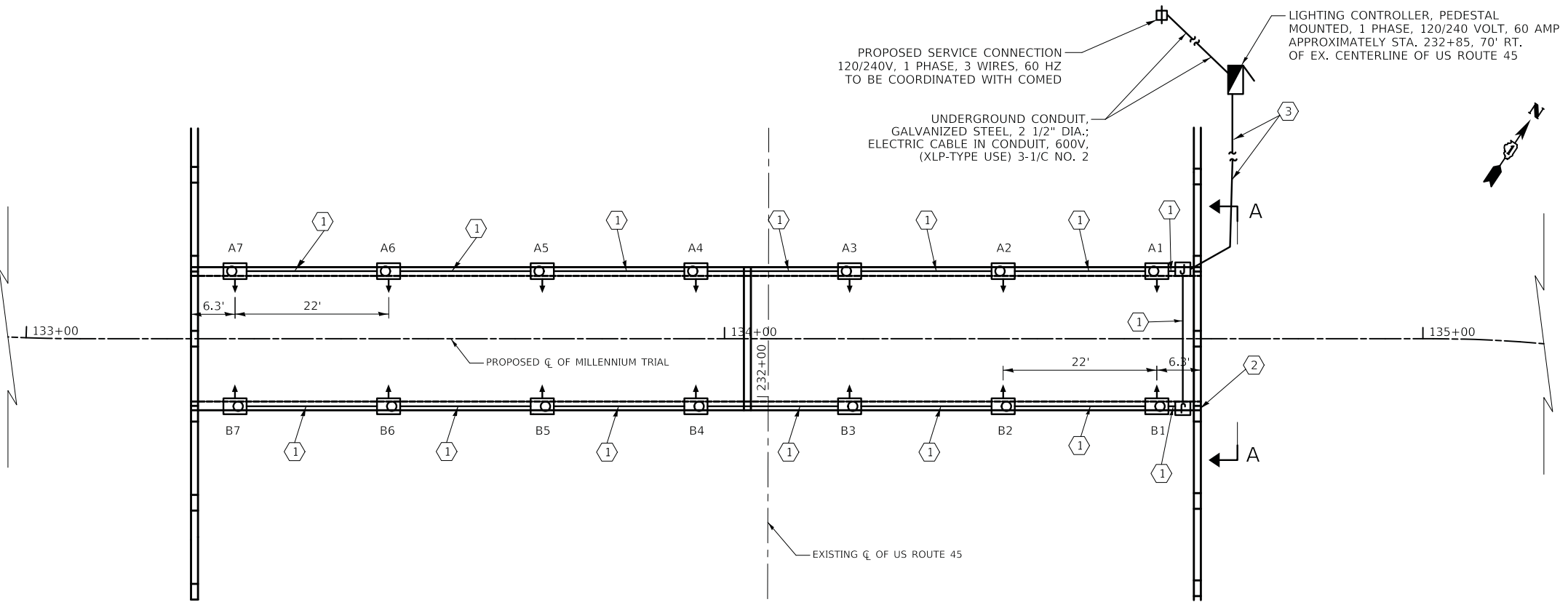
1. ALL WALL MOUNTED LUMINAIRES ARE MOUNTED 8' FROM THE BOTTOM OF THE LUMINAIRE TO THE FINISHED SURFACE OF THE BIKE PATH.

**WIRE AND CONDUIT TABLE**

TAG	WIRE	RIGID GALVANIZED STEEL CONDUIT
①	2-1/C NO. 10 AND 1/C NO. 10 GROUND	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA. GALVANIZED STEEL
②	3-1/C NO. 10 AND 1/C NO. 10 GROUND	CONDUIT EMBEDDED IN STRUCTURE, 1" DIA. GALVANIZED STEEL
③	3-1/C NO. 10 AND 1/C NO. 10 GROUND	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1" DIA.,

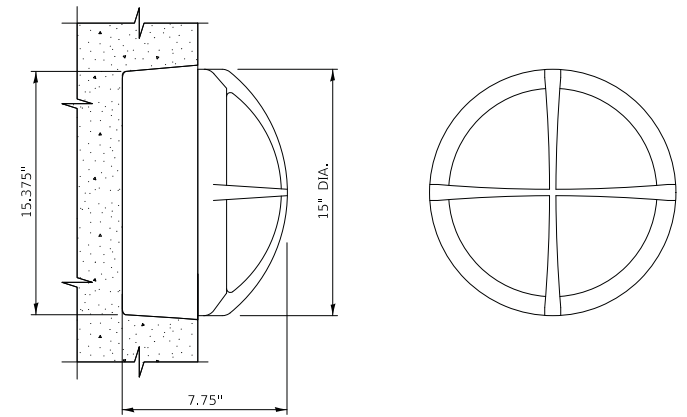
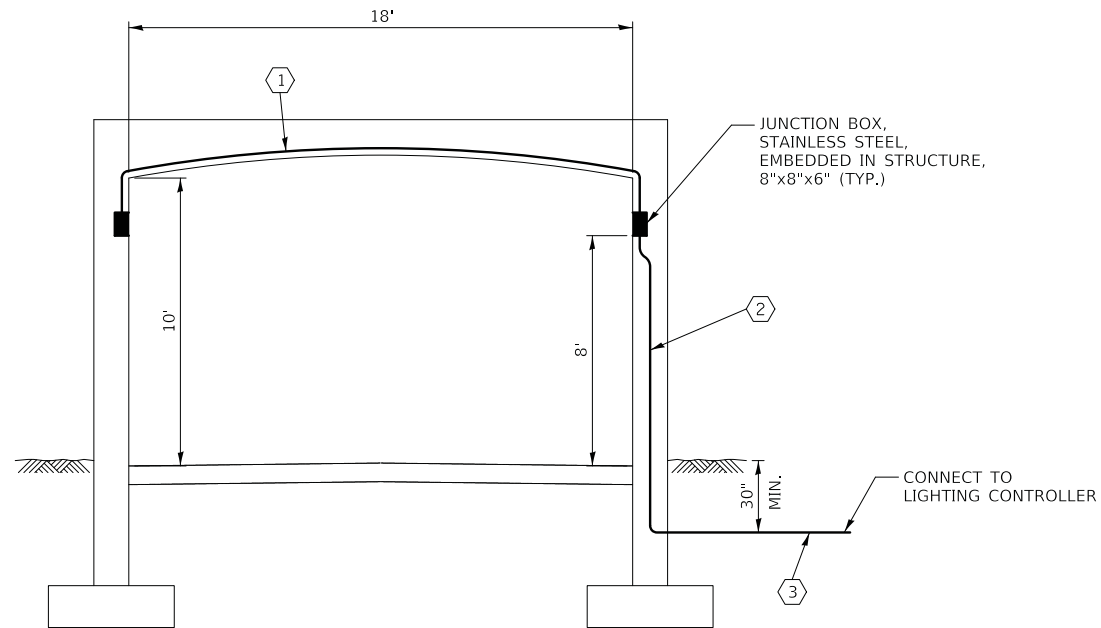
**UNDERPASS LUMINAIRE LOCATIONS**

LUMINAIRE NO.	STATION	OFFSET
A1	134+61.9	9.0' LT.
A2	134+39.9	9.0' LT.
A3	134+17.9	9.0' LT.
A4	133+95.9	9.0' LT.
A5	133+73.9	9.0' LT.
A6	133+51.9	9.0' LT.
A7	133+29.9	9.0' LT.
B1	134+61.9	9.0' RT.
B2	134+39.9	9.0' RT.
B3	134+17.9	9.0' RT.
B4	133+95.9	9.0' RT.
B5	133+73.9	9.0' RT.
B6	133+51.9	9.0' RT.
B7	133+29.9	9.0' RT.



CIRCUIT	QTY	TOTAL AMPS	KW LOAD @ 120V	CIRCUIT	QTY	TOTAL AMPS	KW LOAD @ 120V
A	7	3.2	0.38	B	7	3.2	0.38
TOTAL:		3.2	0.38	TOTAL:		3.2	0.38

40 WATT LED LUMINAIRE (120V) = 0.45 AMPS



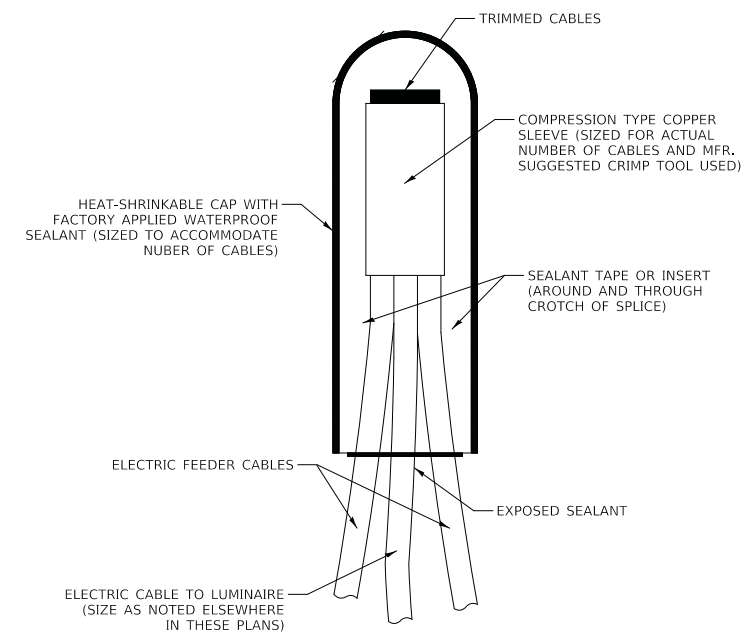
**UNDERPASS LUMINAIRE (SPECIAL)  
DETAIL**

**SECTION A-A**

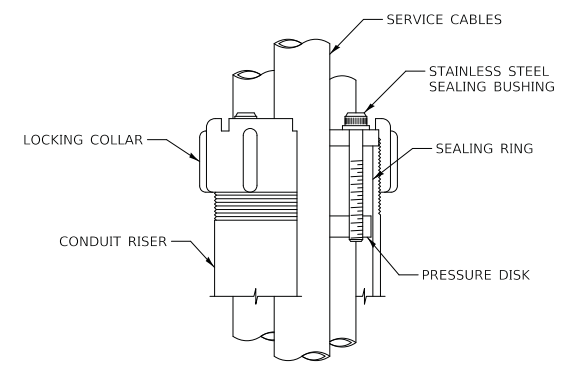


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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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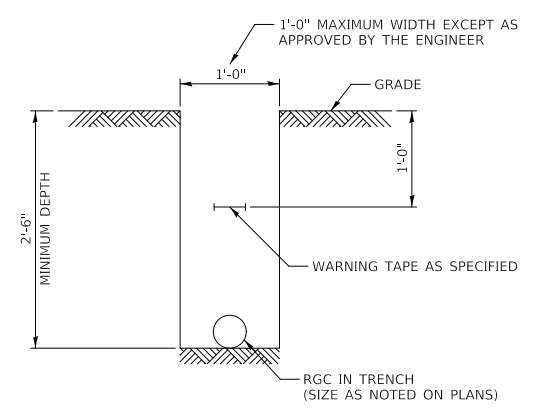
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ORIGINAL SURVEY	
NOTE BOOK	
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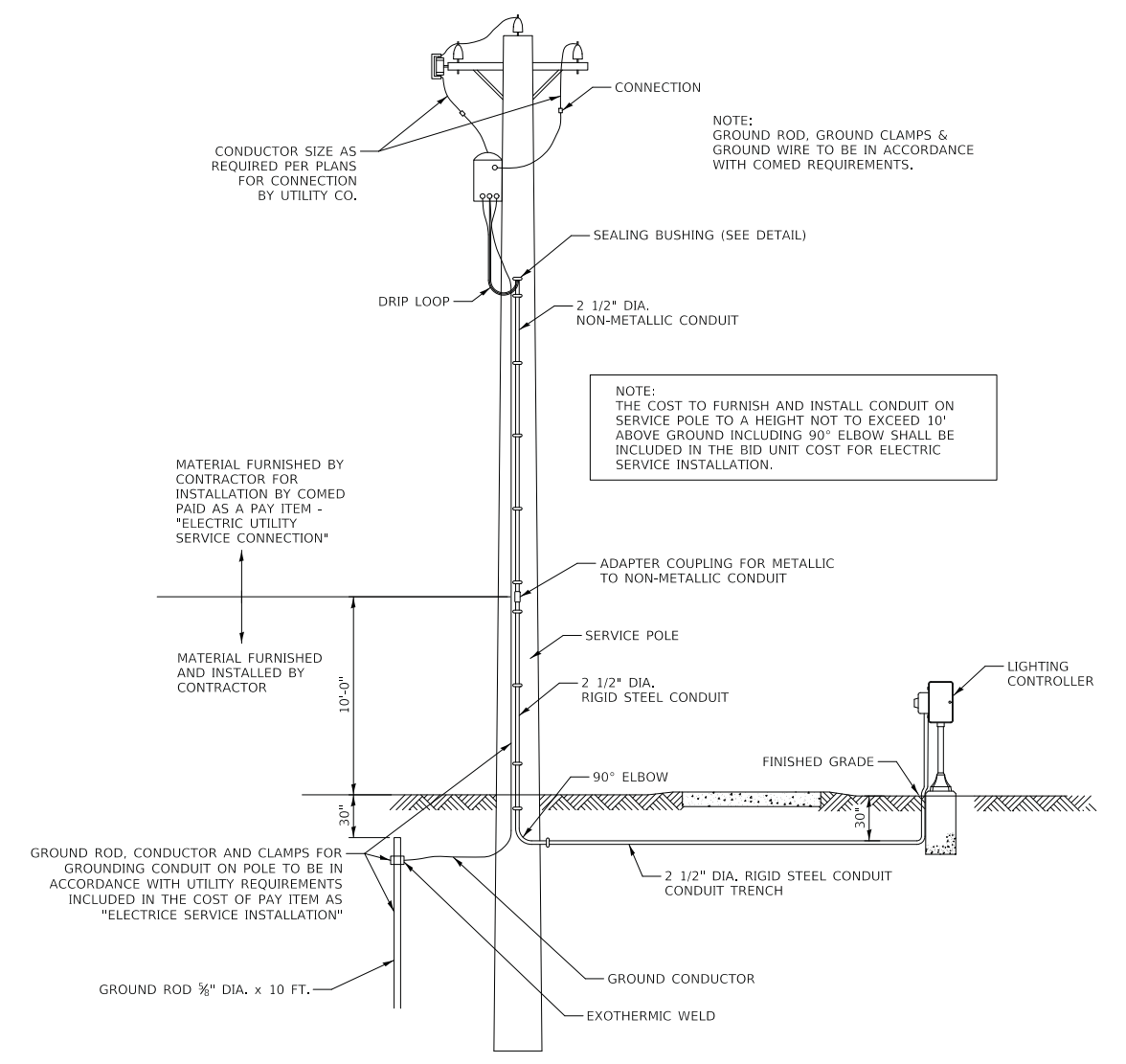
NOTE: NUMBER OF CABLES IN SPLICE MAY VARY  
**SPLICING ELECTRIC CABLES**  
**BASIC MATERIALS AND METHODS**



**SEALING BUSHING DETAIL**



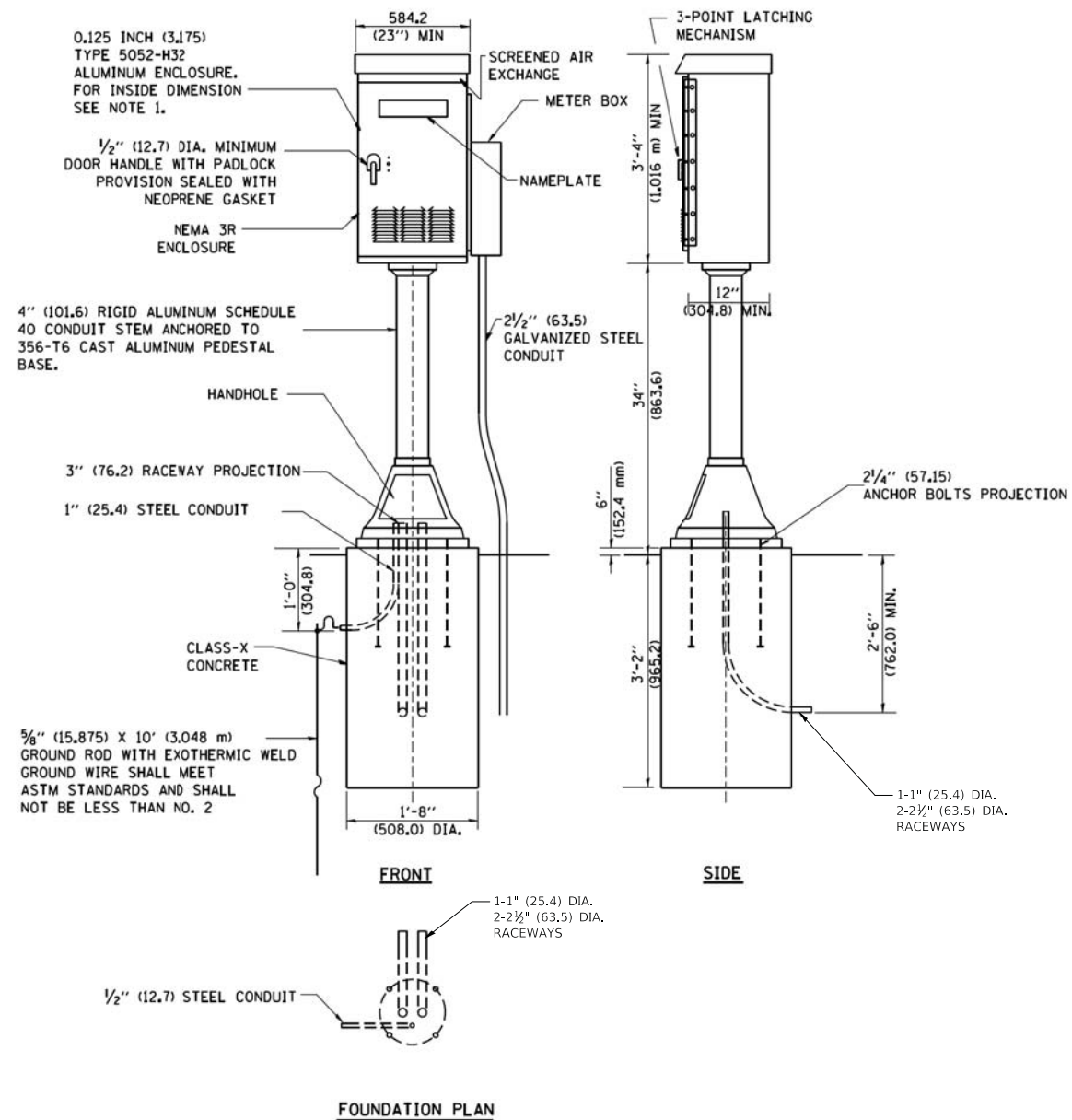
**TYPICAL WIRING IN TRENCH - DETAIL**



**PROPOSED SERVICE INSTALLATION**  
**POLE TOP MOUNTED TRANSFORMER**

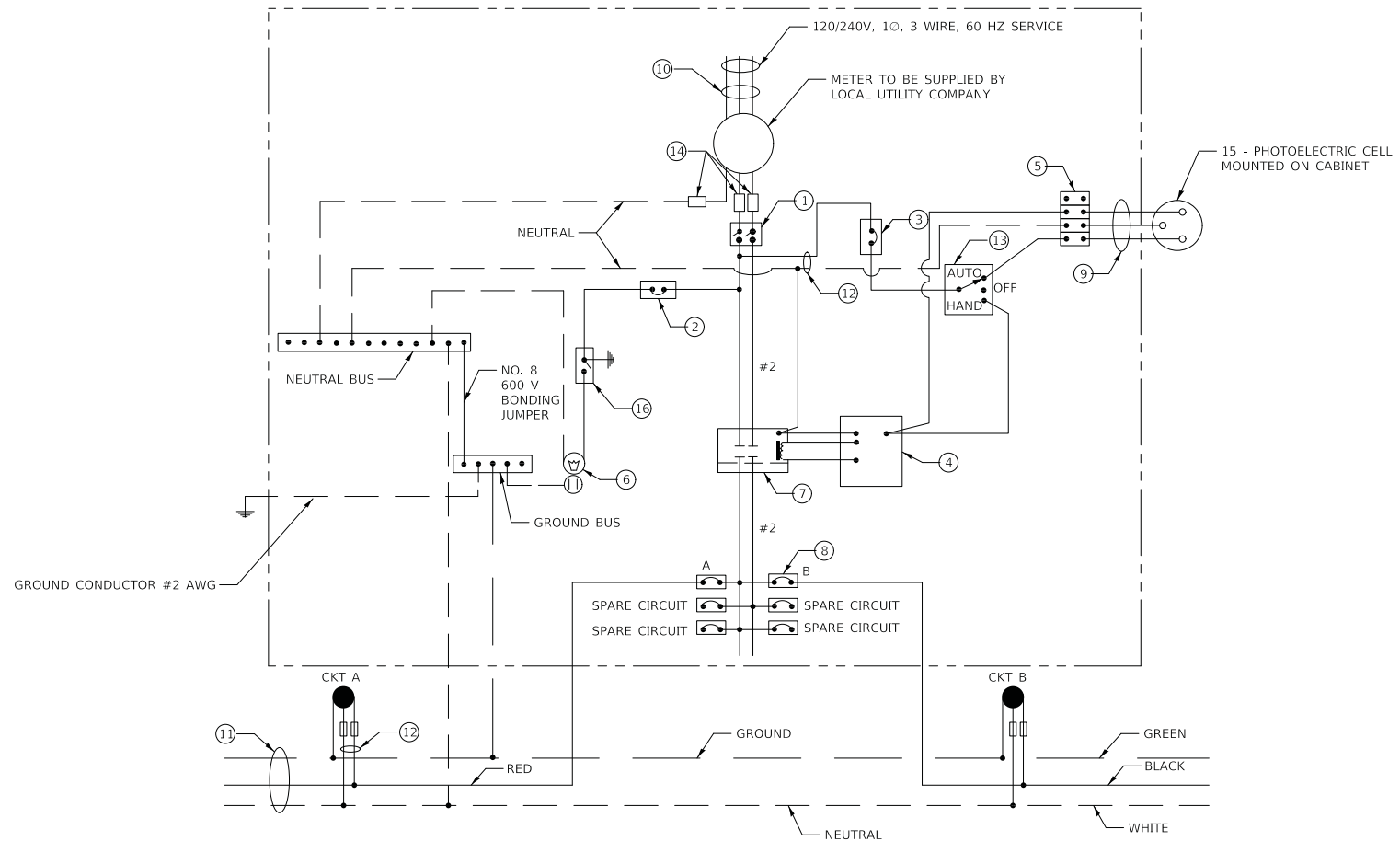
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REVISION	
NO.	



**NOTES:**

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
R = RED      BL = BLUE      W = WHITE  
B = BLACK    Y = YELLOW      G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".



**LIGHTING CONTROLLER COMPONENT SCHEDULE**

ITEM	SPECIFICATION OR EQUAL
1 MAIN CIRCUIT BREAKER	60 AMPERE, 2 POLE, 240 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 600V
2 LAMPHOLDER CIRCUIT BREAKER	15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 14,000 RMS SYMMETRICAL AMPS AT 277V
3 PHOTOELECTRIC CELL CONTROL CIRCUIT BREAKER	15 AMPERE, 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 14,000 RMS SYMMETRICAL AMPS AT 277V
4 AUXILIARY RELAY	120 VOLT SP5T 60 HZ COIL
5 FOUR POINT TERMINAL BLOCK	600 VOLT
6 LAMPHOLDER AND OUTLET	120 VOLT SWITCHED LAMPHOLDER AND 15 AMP GFI DUPLEX RECEPTACLE
7 REMOTE CONTROL SWITCH	60 AMPERE, 2 POLE, 240 VOLT RATING, ELECTRICALLY OPERATED, MECHANICALLY HELD
8 BRANCH LINE CIRCUIT BREAKERS	CKTS A-B 20 AMP 1 POLE, 120 VOLT RATING INTERRUPTING CAPACITY NOT LESS THAN 10,000 RMS SYMMETRICAL AMPS AT 277V
9 PHOTOELECTRIC CELL CONTROL WIRE	3-600V XLP NO. 10
10 SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2
11 BRANCH LINE CABLES	SEE PLANS FOR SIZE
12 LIGHTING POLE WIRE	2-600V XLP NO. 10 CABLES WITH POLE GROUND AND FUSING
13 HAND-AUTO-OFF CONTROL SWITCH	10 AMPERE, 3 POLE, 120 VOLT
14 LIGHTING ARRESTOR	BRACKET MOUNTED SURGE ARRESTOR FOR 120/240V 3W SERVICE
15 PHOTOELECTRIC CELL	120 SECONDS OFF TIME DELAY, 120V
16 MICRO SWITCH	MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN

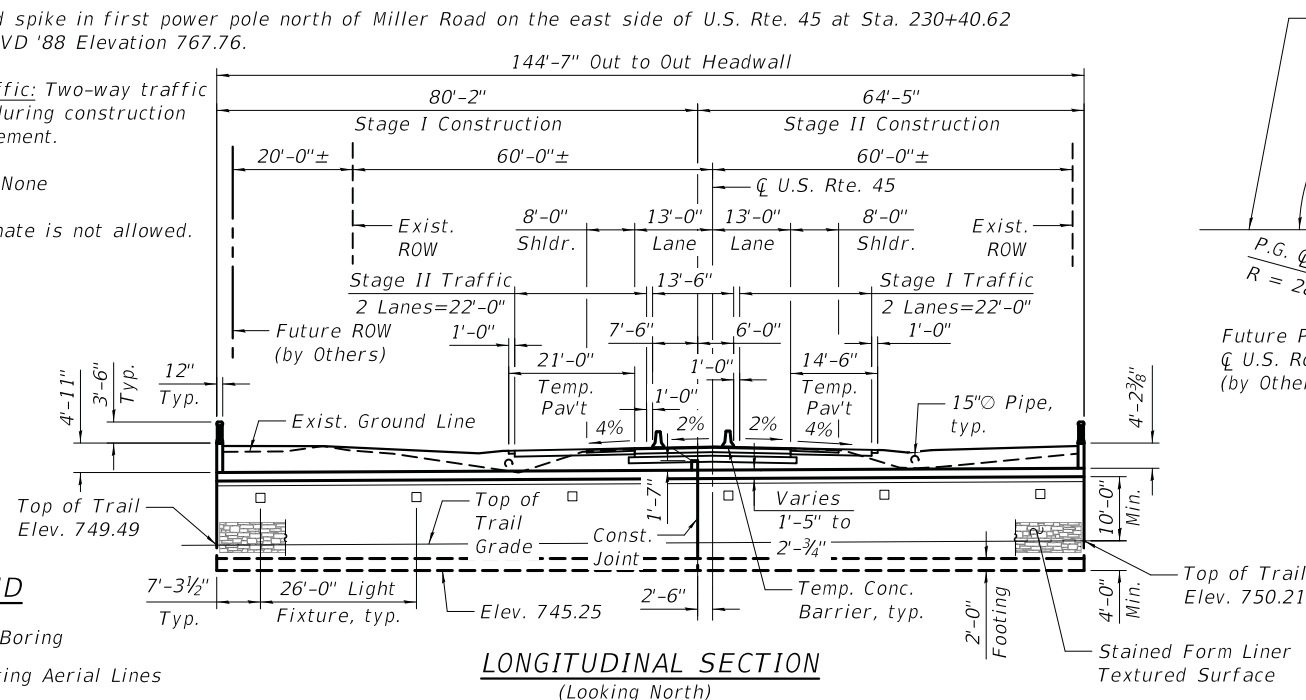
**LIGHTING CONTROLLER WIRING DIAGRAM**

Benchmark: Railroad spike in first power pole north of Miller Road on the east side of U.S. Rte. 45 at Sta. 230+40.62  
 Offset 60.25' Rt. NAVD '88 Elevation 767.76.

Maintenance of Traffic: Two-way traffic will be maintained during construction with temporary pavement.

Existing Structure: None

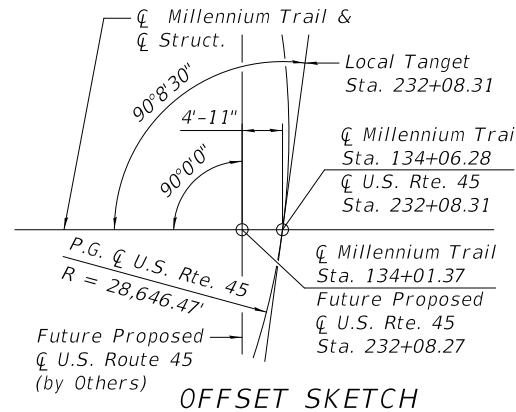
Note: Precast alternate is not allowed.



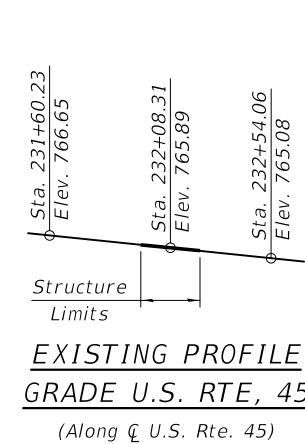
**LEGEND**

- ⊕ Soil Boring
- Existing Aerial Lines
- Existing Underground Telephone
- x - x - Existing Fence
- Proposed Storm Sewer
- ▲ Proposed Headwall

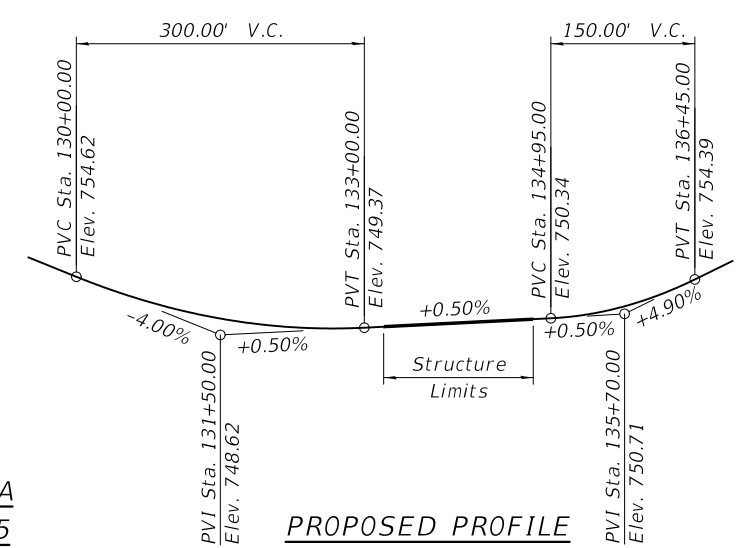
**LONGITUDINAL SECTION**  
(Looking North)



**OFFSET SKETCH**



**EXISTING PROFILE**  
GRADE U.S. RTE, 45  
(Along C U.S. Rte. 45)



**PROPOSED PROFILE**  
GRADE MILLENNIUM TRAIL  
(Along C Millennium Trail)

**INDEX OF SHEETS**

- S1 General Plan & Logitudinal Section
- S2 General Data
- S3 Underpass Plan & Elevation
- S4 Underpass Details (West Entrance)
- S5 Underpass Details (East Entrance)
- S6 West Wingwalls
- S7 East Wingwalls
- S8 Wingwall Details
- S9 Architectural Details
- S10 Bar Splicer Assembly Details
- S11 Underpass Soil Boring Logs
- S12 Underpass Soil Boring Logs
- S13 Underpass Soil Boring Logs

**CURVE DATA**

- U.S. RTE. 45**
- Δ = 6° 49' 37"
  - D = 0° 12' 00"
  - T = 1,708.69'
  - L = 3,413.33'
  - E = 50.91'
  - R = 28,646.47'
  - S.E. = Normal Crown
  - P.C. = Sta. 198+65.75
  - P.T. = Sta. 232+79.08
  - P.I. = Sta. 215+74.44

**DESIGN STRESSES**

**FIELD UNITS**

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

**LOADING HL-93**

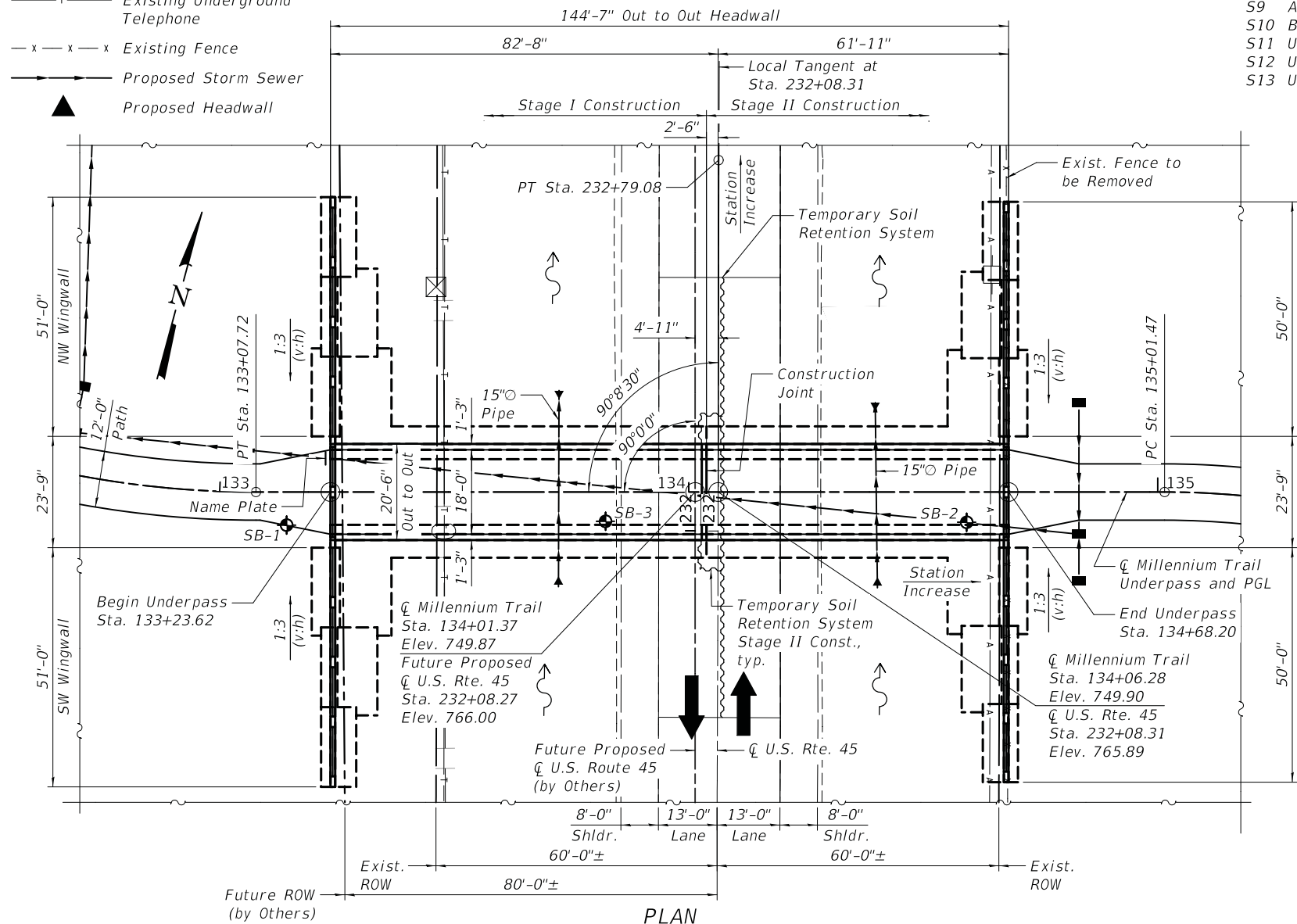
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**SEISMIC DATA**

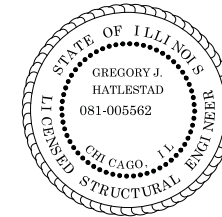
- Seismic Performance Zone (SPZ) = 1
- Design Spectral Acceleration at 1.0 sec. (SD1) = 0.075
- Design Spectral Acceleration at 0.2 sec. (SDS) = 0.121
- Soil Site Class = D



**PLAN**

**APPROVED**  
For Structural Adequacy Only  
*Gregory J. Hatlestad*  
Engineer of Bridges & Structures

CIVILTECH ENGINEERING, INC.  
GREGORY J. HATLESTAD, S.E.



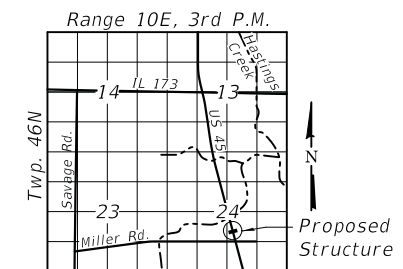
*Greg Hatlestad*  
GREGORY J. HATLESTAD, S.E.  
# 081-005562

EXP 11/30/2020

DATE 05/05/2020

U.S. ROUTE 45  
BUILT 20\_\_ BY  
LAKE COUNTY FOREST  
PRESERVE DISTRICT  
SEC. 16-F3000-05-BT  
F.A.U. 1446 STA. 232+08.31  
STR. NO. 049-0505 LOADING HL-93

**NAME PLATE**  
See Std. 515001



**LOCATION SKETCH**

**GENERAL PLAN & LONGITUDINAL SECTION**

**U.S. ROUTE 45 OVER MILLENNIUM TRAIL**

**SEC. 16-F3000-05-BT**

**LAKE COUNTY**

**STA. 232+08.31**

**STRUCTURE NUMBER 049-0505**

**GENERAL PLAN AND ELEVATION**  
**U.S. ROUTE 45 OVER MILLENNIUM TRAIL**  
**STRUCTURE NO. 049-0505**

SHEET NO. 51 OF 513 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	59

ILLINOIS FED. AID PROJECT

**CIVILTECH**  
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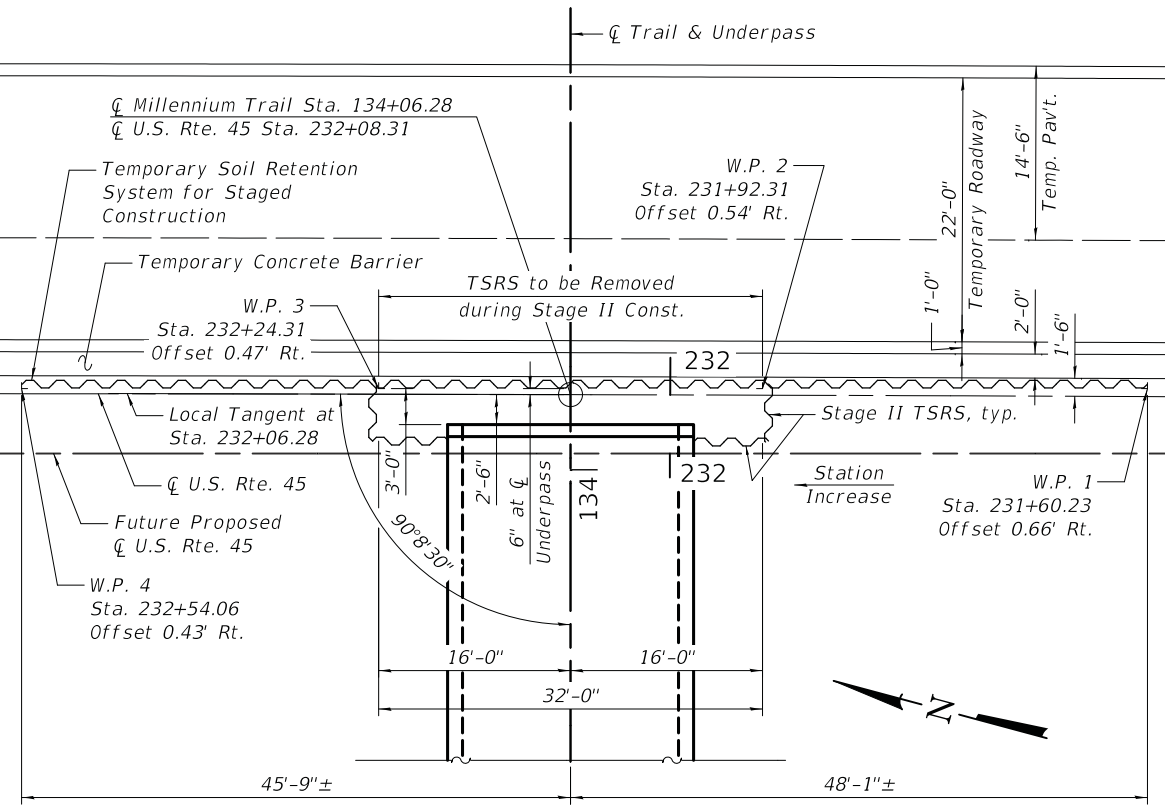
DRAWN - J. LOAYZA-RAMOS  
DESIGNED - J. LOAYZA-RAMOS  
CHECKED - G. HATLESTAD  
DATE - 05/05/20

REVISED -  
REVISED -  
REVISED -  
REVISED -

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

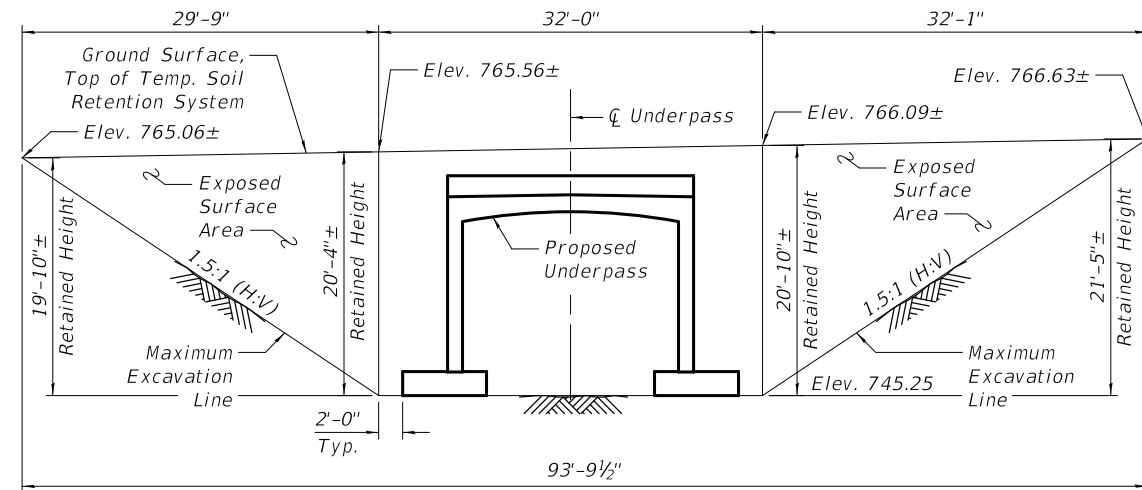
**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



**TEMPORARY SOIL RETENTION SYSTEM - PLAN**

- Notes:
1. Stations and offsets are measured from  $\bar{C}$  U.S. Route 45.
  2. TSRS = Temporary Soil Retention System  
W.P. = Work Point

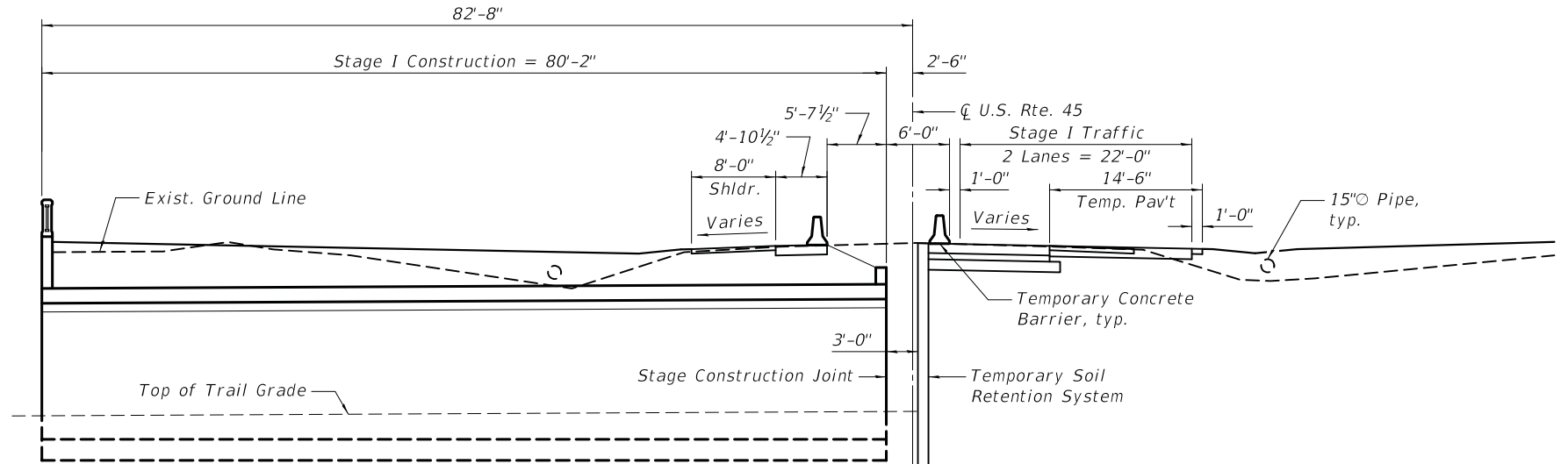


**TEMPORARY SOIL RETENTION SYSTEM - ELEVATION**

(Looking East)

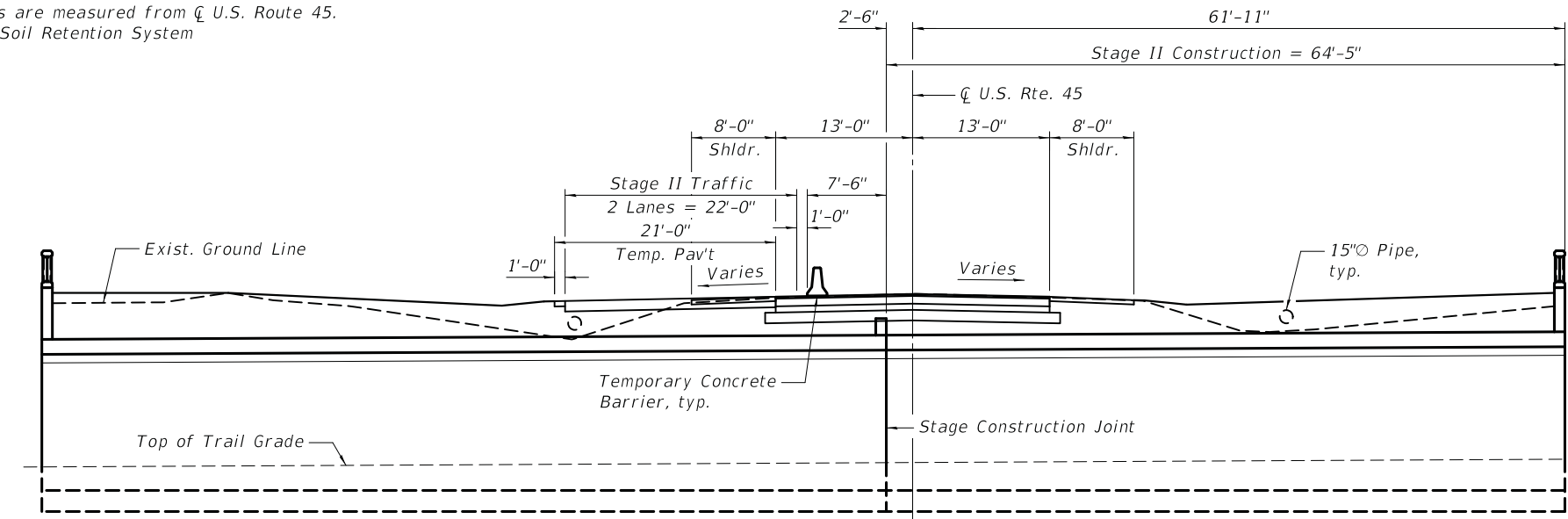
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	5,270
Structure Excavation	Cu. Yd.	5,790
Concrete Structures	Cu. Yd.	896.2
Rubbed Finish	Sq. Ft.	5,455
Reinforcement Bars, Epoxy Coated	Pound	115,070
Bar Splicers	Each	130
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	1,698
Geocomposite Wall Drain	Sq. Yd.	1,477
Membrane Waterproofing System For Buried Structures	Sq. Yd.	371
Form Liner Textured Surface, Special	Sq. Ft.	3,638
Staining Concrete Structures	Sq. Ft.	3,638
Ornamental Railing	Foot	200
Pipe Underdrains for Structures, 4"	Foot	792
Porous Granular Embankment, Special	Cu. Yd.	154
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	154



**STAGE I CONSTRUCTION**

(Looking North)



**STAGE II CONSTRUCTION**

(Looking North)

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA  
U.S. ROUTE 45 OVER MILLENNIUM TRAIL  
STRUCTURE NO. 049-0505**

SHEET NO. 52 OF 513 SHEETS

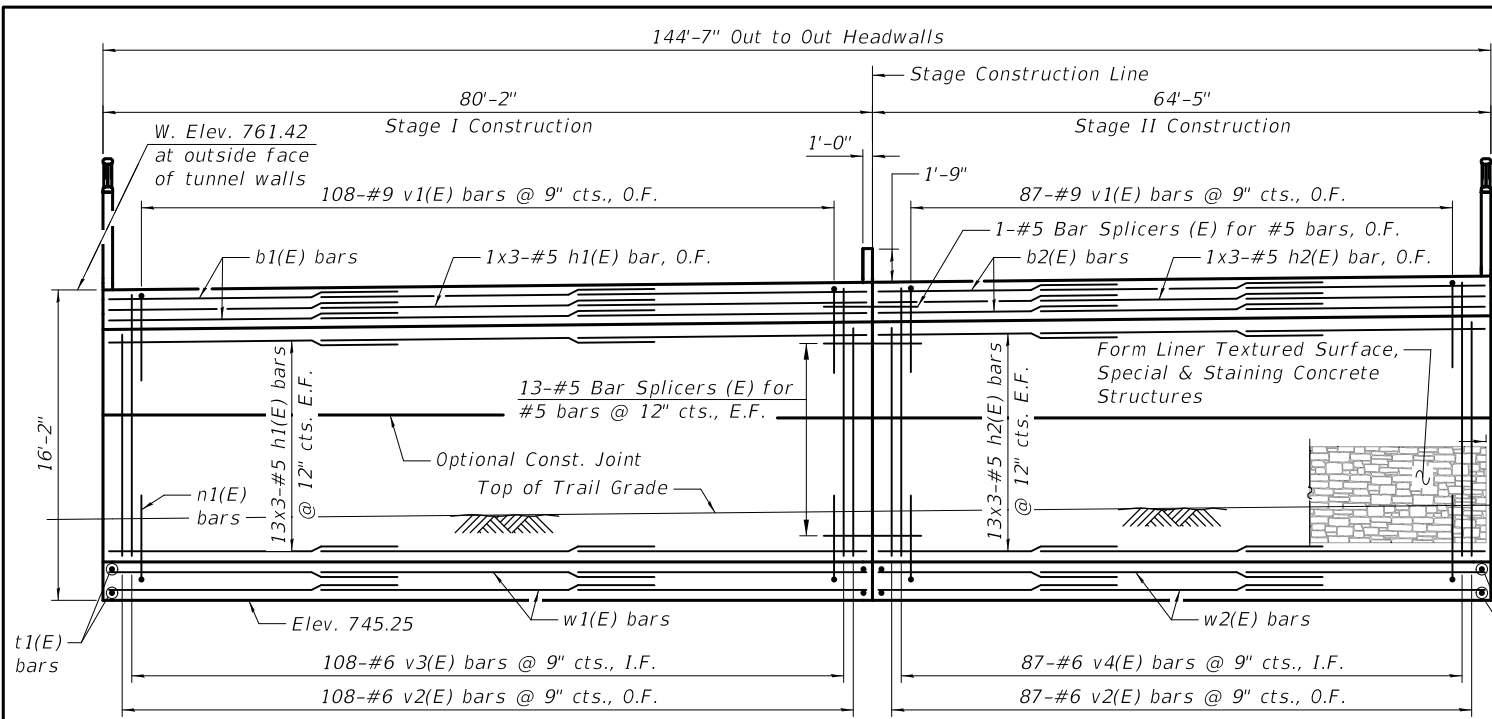
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	60

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DRAWN	- J. LOAYZA-RAMOS	REVISED	-
DESIGNED	- J. LOAYZA-RAMOS	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 05/05/20	REVISED	-

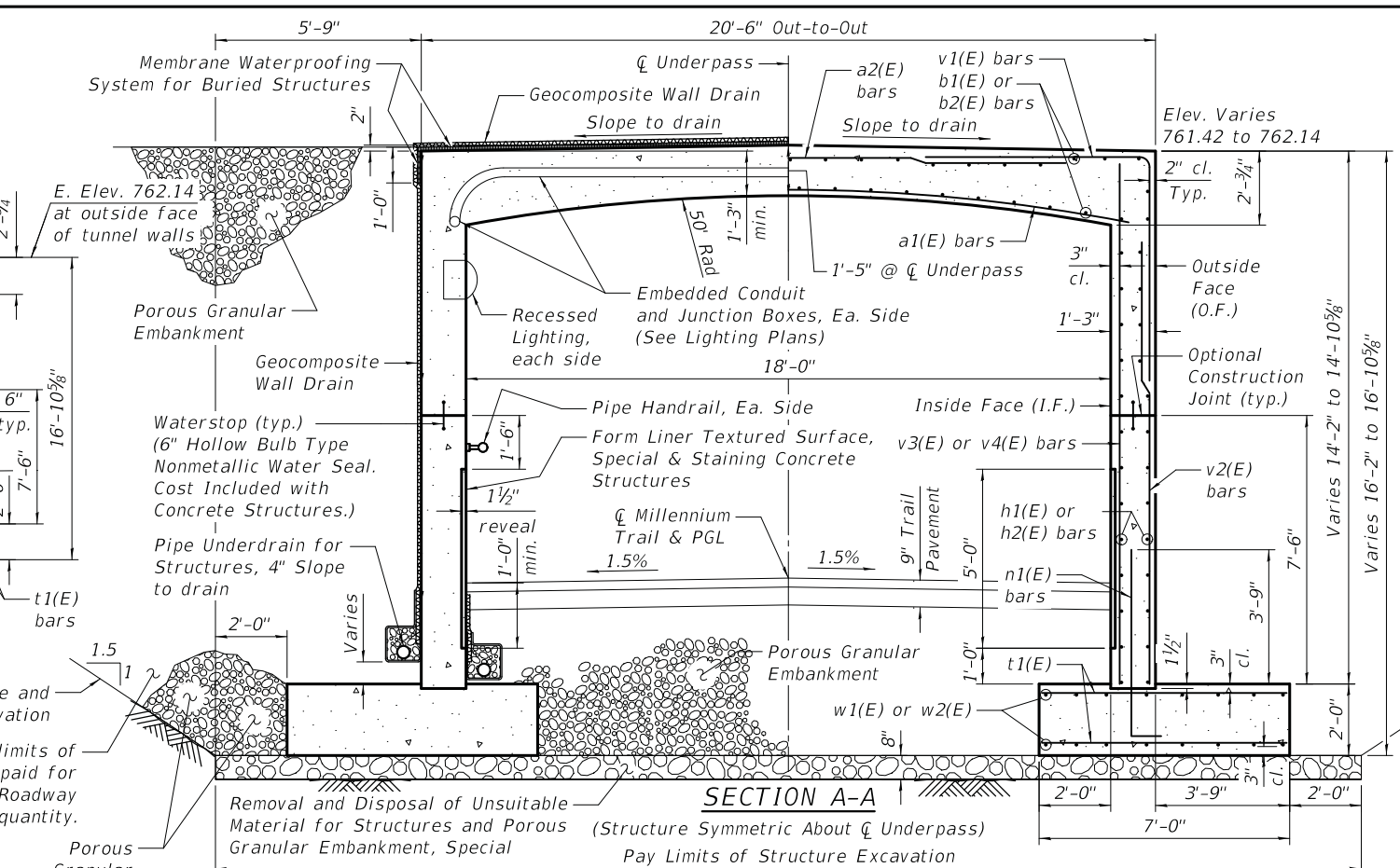


**ELEVATION**

(North Wall Shown, Looking North - South Wall is Similar)

Maximum Excavation Line and limits of Earth Excavation

Excavation beyond the limits of Structure Excavation will be paid for as Earth Excavation. See Roadway Plans for quantity.



**SECTION A-A**

(Structure Symmetric About ϕ Underpass)

Pay Limits of Structure Excavation

Note: Maximum Factored Resistance Applied = 5,117 psf  
Maximum Factored Resistance Available = 5,250 psf

**FOOTING - PLAN**

(South Footing Shown - North Footing Similar)

**SECTION B-B**

(Underpass Reinforcement Not Shown)

**LEGEND**

Underpass and Wingwall reinforcement will overlap

**MINIMUM BAR LAP**

#5 = 3'-7"  
#6 = 4'-4"

- Note:
- See sheet S5 for Bill of Material and Bar Diagrams.
  - See sheet S6 & S7 for pipe underdrain invert elevations and S8 for Pipe Underdrain Detail.
  - The pay limits for Geocomposite Wall Drain are along the perimeter of the top and side walls. Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.
  - Bars indicated thus 13x3-#6 etc. indicates 13 lines of bars with 3 lengths per line.

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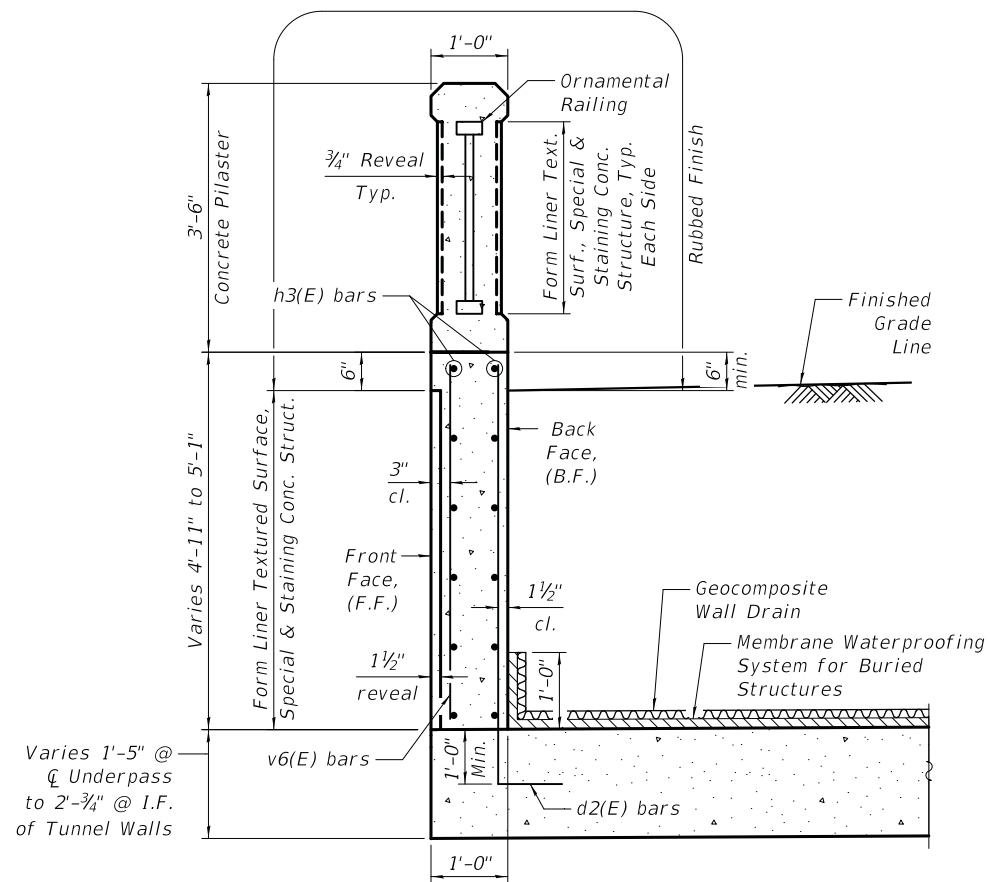
DRAWN	- J. LOAYZA-RAMOS	REVISED	-
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CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 05/05/20	REVISED	-

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

**UNDERPASS PLAN AND ELEVATION**  
**U.S. ROUTE 45 OVER MILLENNIUM TRAIL**  
**STRUCTURE NO. 049-0505**

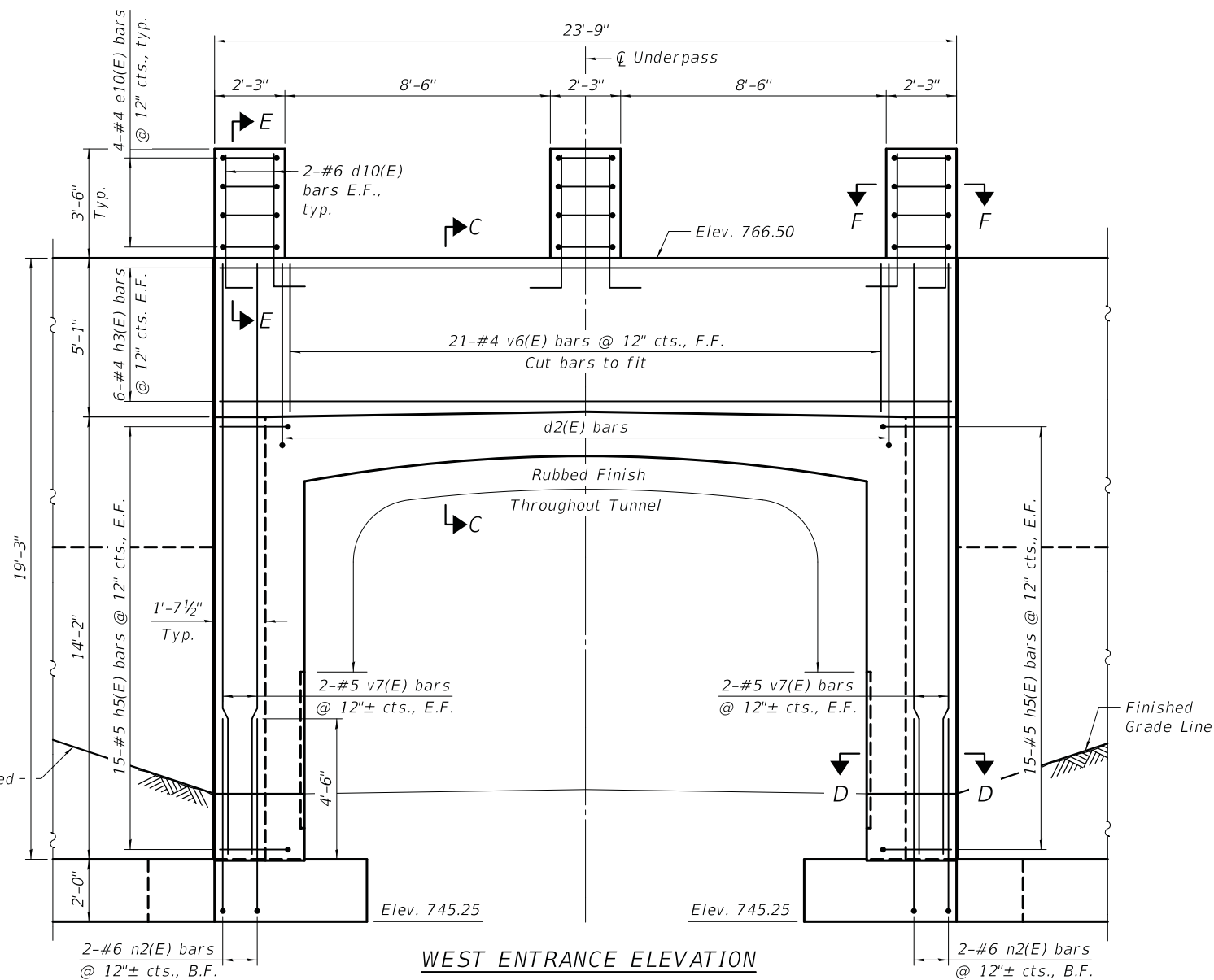
SHEET NO. 53 OF 513 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	61
ILLINOIS FED. AID PROJECT				

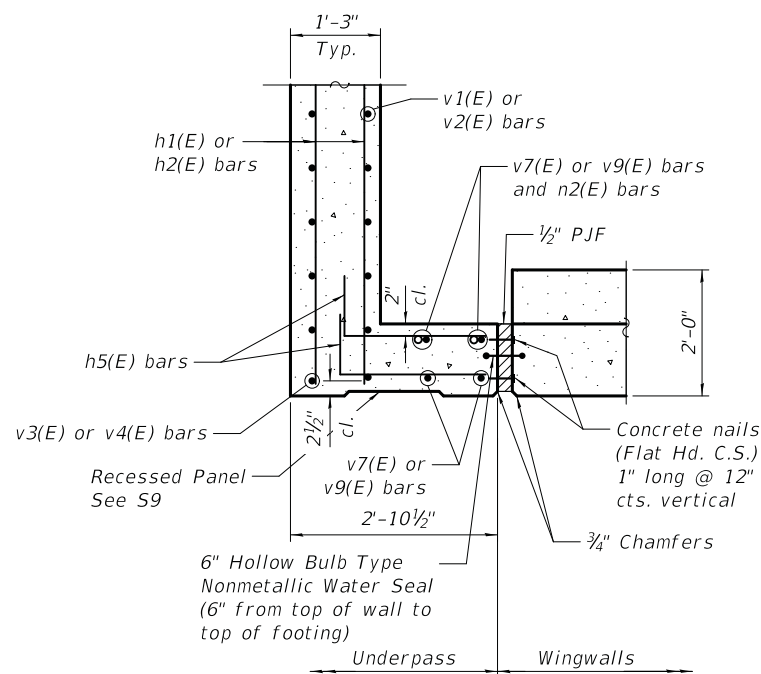


**SECTION C-C**

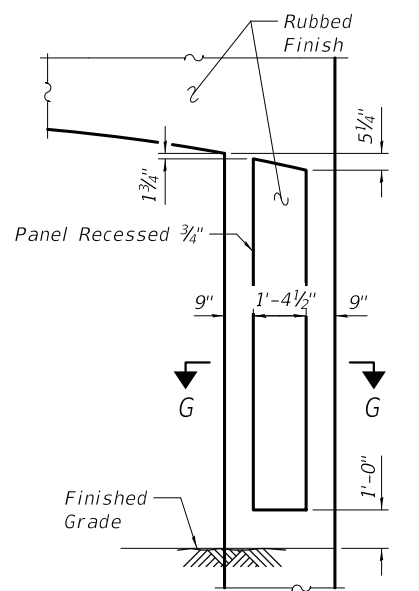
(Pilaster and Underpass Reinforcement Not Shown)



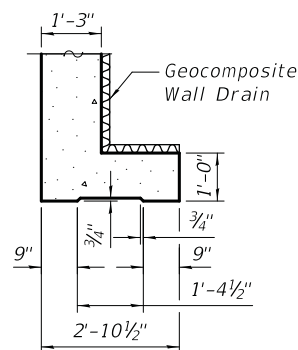
**WEST ENTRANCE ELEVATION**



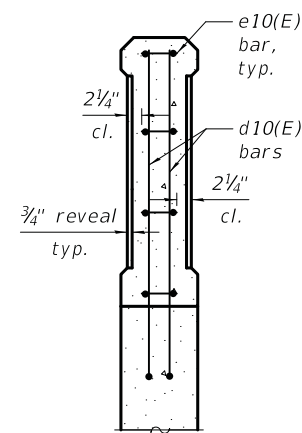
**SECTION D-D**



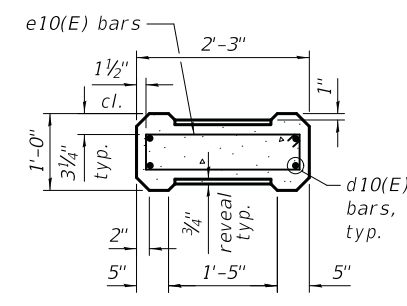
**RECESSED PANEL DETAIL**



**SECTION G-G**



**SECTION E-E**



**SECTION F-F**

**MINIMUM BAR LAP**

#6 = 4'-4"

- Note:  
 1. See sheet S5 for Bill of Material and Bar Diagrams.  
 2. See sheet S9 for detailed concrete pilaster dimensions.

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	62

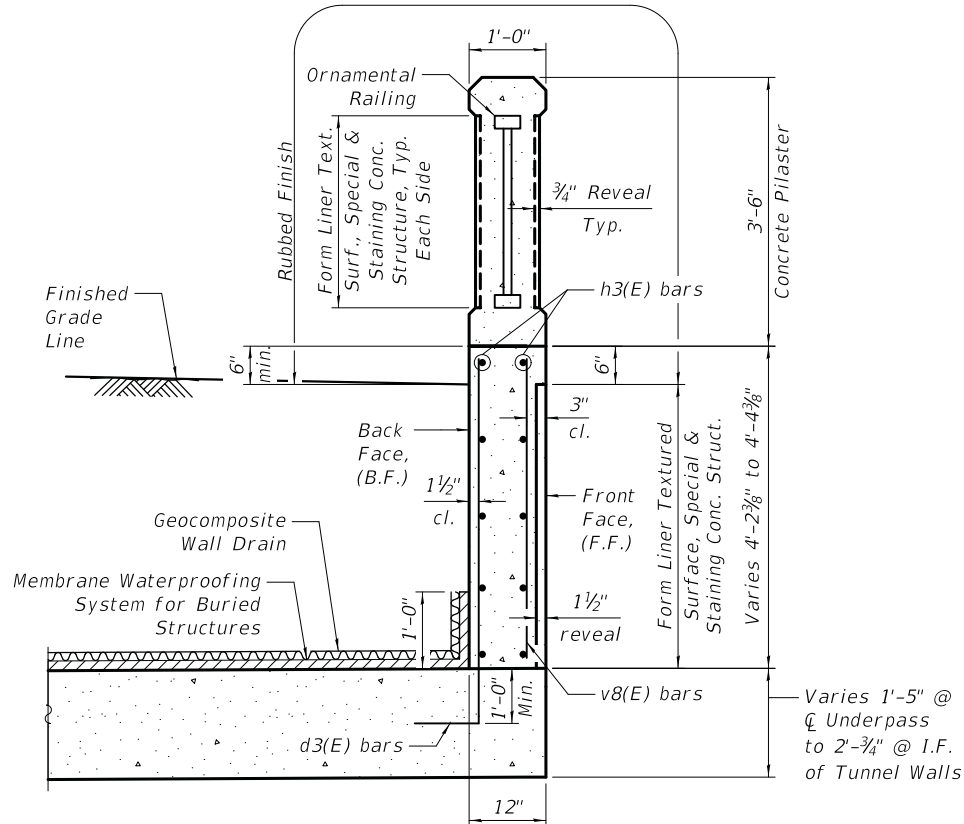
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	195	#7	19'-2"	
a2(E)	195	#6	18'-0"	
b1(E)	126	#5	29'-1"	
b2(E)	126	#5	23'-10"	
d1(E)	21	#4	3'-4"	
d2(E)	21	#5	6'-9"	
d3(E)	21	#5	6'-0"	
d10(E)	24	#6	5'-6"	
e10(E)	24	#4	5'-8"	
h1(E)	162	#5	29'-1"	
h2(E)	162	#5	23'-10"	
h3(E)	22	#4	23'-5"	
h4(E)	6	#4	20'-2"	
h5(E)	124	#5	3'-0"	
n1(E)	292	#5	6'-4"	
n2(E)	8	#6	7'-2"	
v1(E)	390	#9	12'-8"	
v2(E)	390	#6	12'-9"	
v3(E)	216	#6	13'-10"	
v4(E)	174	#6	14'-3"	
v5(E)	21	#4	2'-8"	
v6(E)	21	#4	4'-11"	
v7(E)	16	#5	18'-11"	
v8(E)	21	#4	4'-0"	
t1(E)	584	#8	6'-8"	
w1(E)	96	#5	29'-1"	
w2(E)	96	#5	23'-10"	

Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	2,832
Structure Excavation	Cu. Yd.	3,750
Concrete Structures	Cu. Yd.	527.0
Rubbed Finish	Sq. Ft.	4,854
Reinforcement Bars, Epoxy Coated	Pound	80,260
Geocomposite Wall Drain	Sq. Yd.	1,202
Membrane Waterproofing System For Buried Structures	Sq. Yd.	371
Form Liner Textured Surface, Special	Sq. Ft.	1,677
Staining Concrete Structures	Sq. Ft.	1,677
Pipe Underdrain for Structures, 4"	Foot	579
Porous Granular Embankment, Special	Cu. Yd.	118
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	118

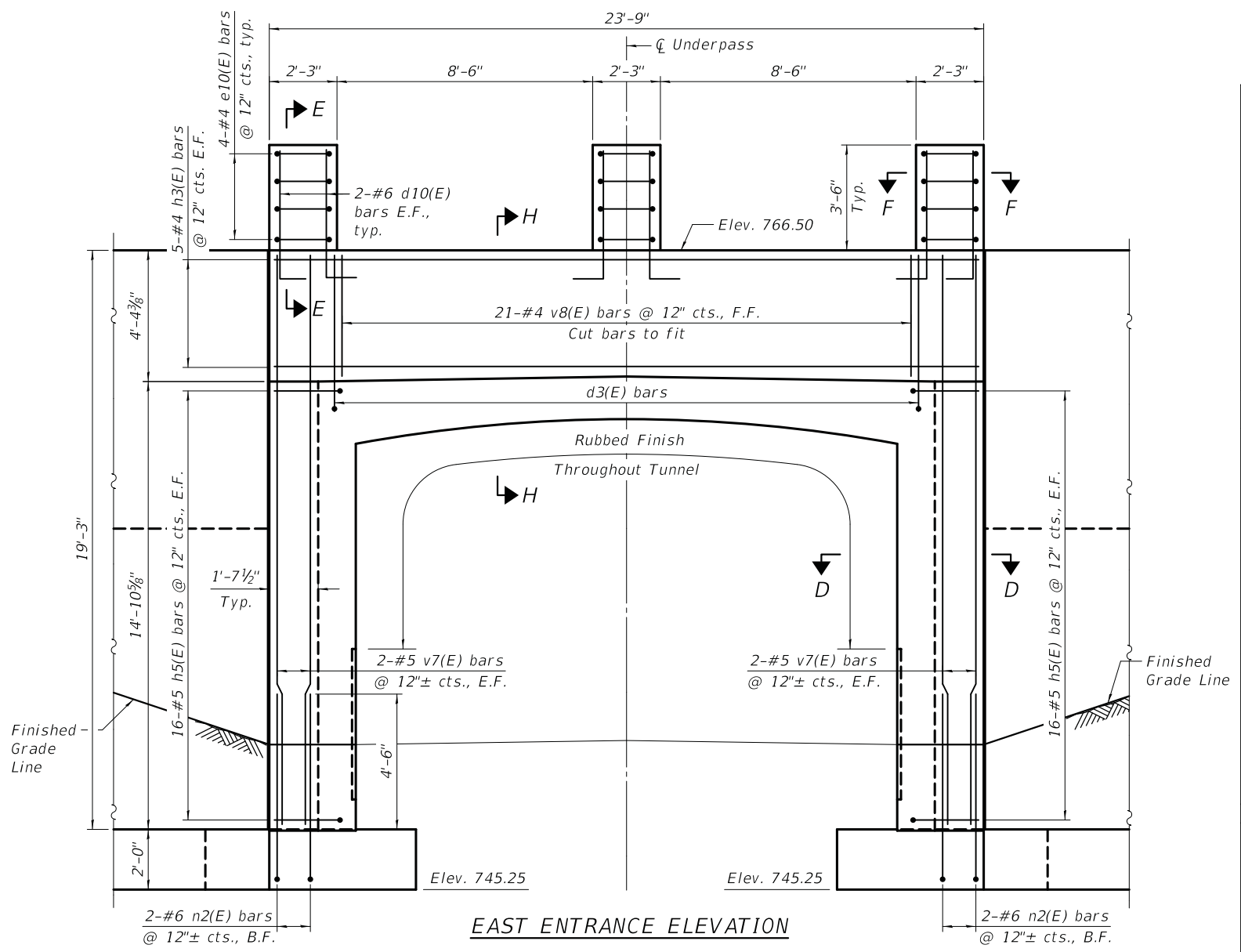
**MINIMUM BAR LAP**

#6 = 4'-4"

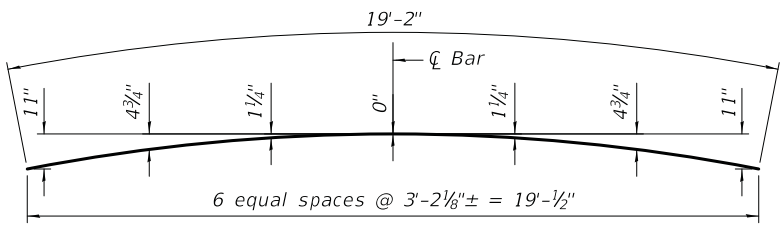


**SECTION H-H**

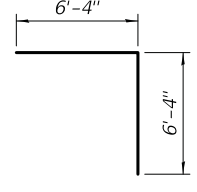
(Pilaster and Underpass Reinforcement Not Shown)



**EAST ENTRANCE ELEVATION**



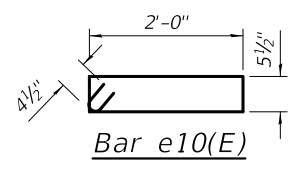
**BAR a1(E)**



**BAR v1(E)**

**BARS d1(E), d2(E), d3(E), d10(E), h5(E), n1(E) & n2(E)**

Bar	A	B
d1(E)	8"	2'-8"
d2(E)	10"	5'-11"
d3(E)	10"	5'-2"
d10(E)	1'-0"	4'-6"
h5(E)	10"	2'-2"
n1(E)	10"	5'-6"
n2(E)	1'-0"	6'-2"



**Bar e10(E)**

Note:  
1. See sheet S4 for Sections E-E, F-F and D-D.

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DATE	- 05/05/20	REVISED	-

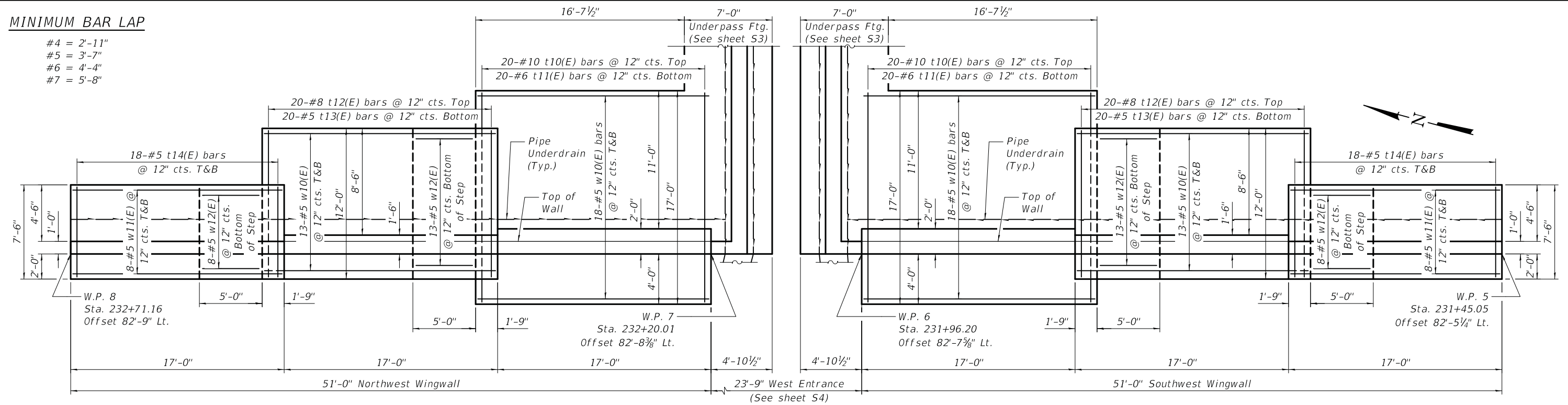
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**UNDERPASS DETAILS (EAST ENTRANCE)  
U.S. ROUTE 45 OVER MILLENNIUM TRAIL  
STRUCTURE NO. 049-0505**  
SHEET NO. 55 OF 513 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	63
ILLINOIS FED. AID PROJECT				

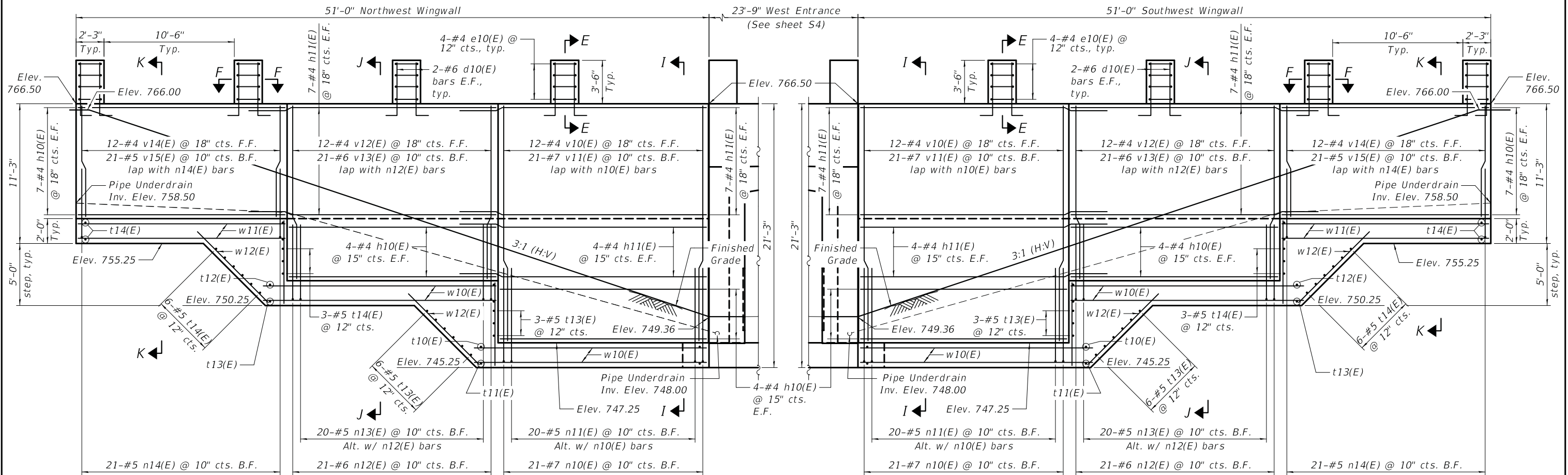
**MINIMUM BAR LAP**

- #4 = 2'-11"
- #5 = 3'-7"
- #6 = 4'-4"
- #7 = 5'-8"



**PLAN**

- Notes:
- See Sheet S4 for Sections E-E and F-F.
  - See Sheet S8 for Bar Schedule, Bill of Material, and Sections I-I, J-J and K-K.
  - See Sheet S9 for Pilaster Railing Details.
  - Stations and offsets are measured from  $\hat{C}$  U.S. Route 45.



**ELEVATION**

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CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 05/05/20	REVISED	-

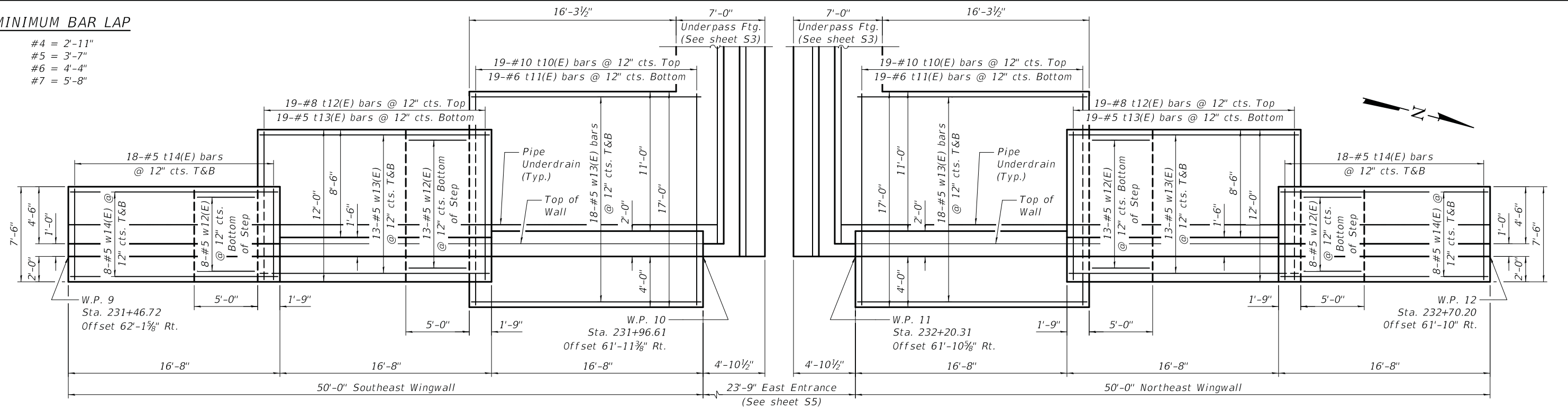
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	64

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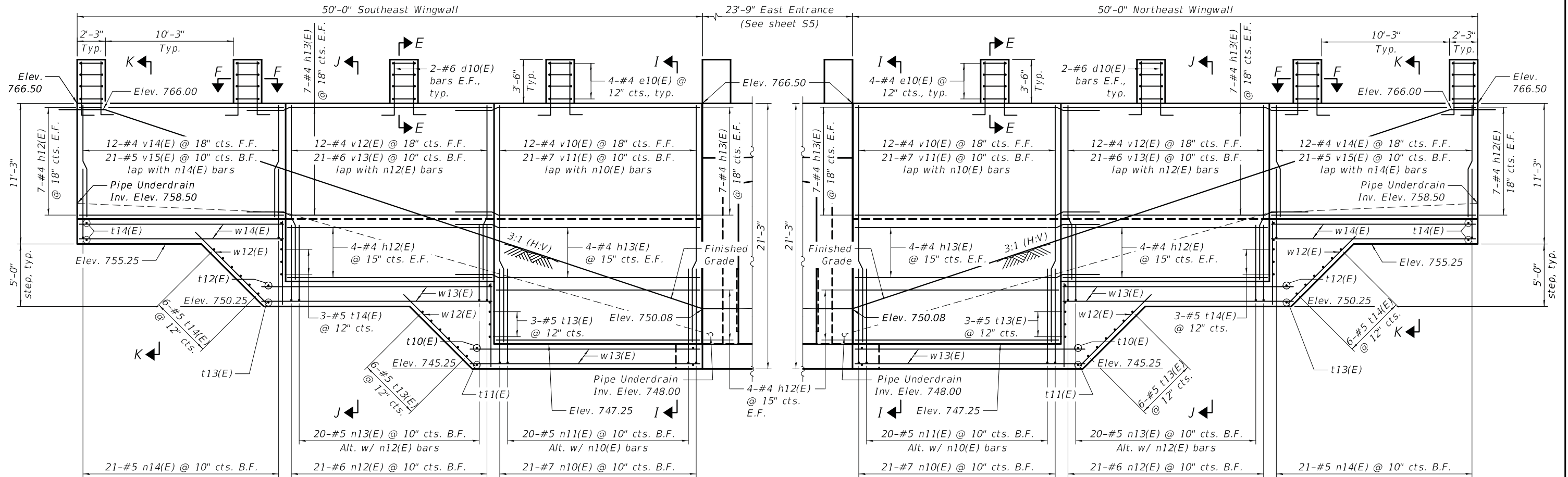
**MINIMUM BAR LAP**

- #4 = 2'-11"
- #5 = 3'-7"
- #6 = 4'-4"
- #7 = 5'-8"



**PLAN**

- Notes:
- See Sheet S4 for Sections E-E and F-F.
  - See Sheet S8 for Bar Schedule, Bill of Material, and Sections I-I, J-J and K-K.
  - See Sheet S9 for Pilaster Railing Details.
  - Stations and offsets are measured from  $\bar{c}$  U.S. Route 45.



**ELEVATION**

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DATE	- 05/05/20	REVISED	-

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	65

**BILL OF MATERIAL**

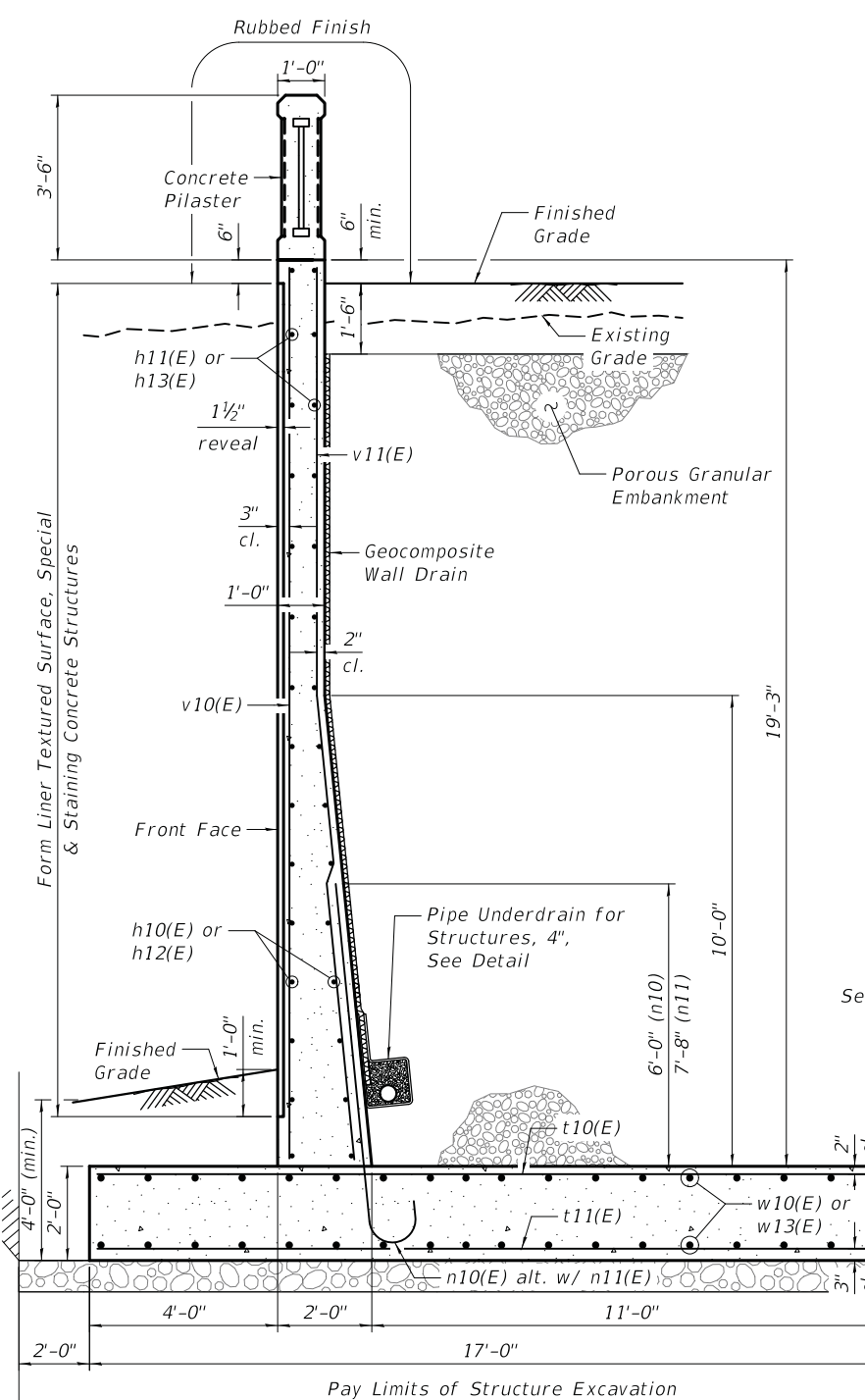
Bar	No.	Size	Length	Shape
d10(E)	64	#6	5'-6"	L
e10(E)	64	#4	5'-8"	U
h10(E)	60	#4	16'-8"	—
h11(E)	72	#4	19'-11"	—
h12(E)	60	#4	16'-4"	—
h13(E)	72	#4	19'-7"	—
n10(E)	84	#7	8'-7"	U
n11(E)	80	#5	10'-0"	U
n12(E)	84	#6	6'-11"	U
n13(E)	80	#5	8'-7"	U
n14(E)	84	#5	6'-5"	U
t10(E)	78	#10	16'-8"	—
t11(E)	78	#6	16'-8"	—
t12(E)	78	#8	11'-8"	—
t13(E)	114	#5	11'-8"	—
t14(E)	180	#5	7'-2"	—
v10(E)	48	#4	18'-11"	—
v11(E)	84	#7	18'-11"	—
v12(E)	48	#4	13'-11"	—
v13(E)	84	#6	13'-11"	—
v14(E)	48	#4	8'-11"	—
v15(E)	84	#5	8'-11"	—
w10(E)	124	#5	18'-5"	—
w11(E)	32	#5	16'-8"	—
w12(E)	84	#5	8'-0"	—
w13(E)	124	#5	18'-1"	—
w14(E)	32	#5	16'-4"	—

Item	Unit	Quantity
Porous Granular Embankment	Cu. Yd.	2,438
Structure Excavation	Cu. Yd.	2,040
Concrete Structures	Cu. Yd.	369.2
Rubbed Finish	Sq. Ft.	601
Reinforcement Bars, Epoxy Coated	Pound	34,810
Geocomposite Wall Drain	Sq. Yd.	275
Form Liner Textured Surface, Special	Sq. Ft.	1,961
Staining Concrete Structures	Sq. Ft.	1,961
Pipe Underdrain for Structures, 4"	Foot	213
Porous Granular Embankment, Special	Cu. Yd.	36
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	36

Notes:  
See Sheet S4 for Concrete Pilasters Details.  
See Sheets S6 & S7 for Pipe Underdrain Invert Elevations.  
See Sheet S9 for Pilaster Railing Details.

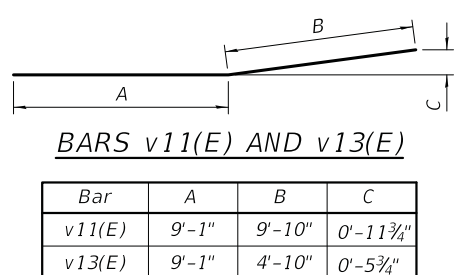
**MINIMUM BAR LAP**

#5 = 3'-7"  
#6 = 4'-4"  
#7 = 5'-8"



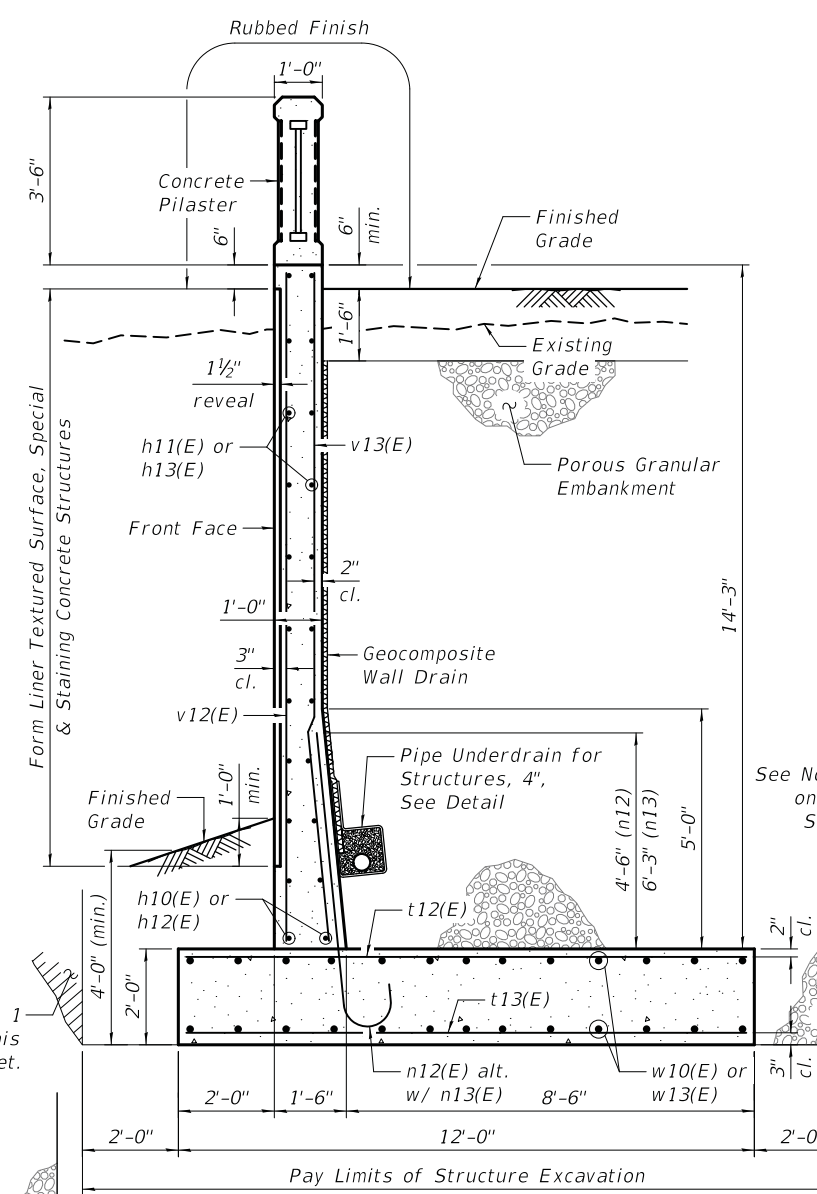
**SECTION I-I**

Note:  
Maximum Factored Resistance Applied = 4,261 psf  
Maximum Factored Resistance Available = 5,250 psf



**BARS v11(E) AND v13(E)**

Bar	A	B	C
v11(E)	9'-1"	9'-10"	0'-11 3/4"
v13(E)	9'-1"	4'-10"	0'-5 3/4"

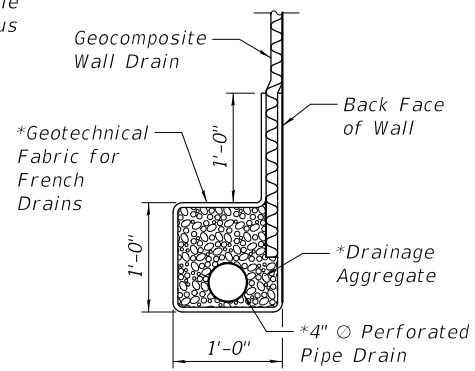


**SECTION J-J**

Maximum Excavation Line and limits of Earth Excavation. See Note 1 on this Sheet.  
Porous Granular Embankment  
Removal and Disposal of Unsuitable Material for Structures and Porous Granular Embankment, Special

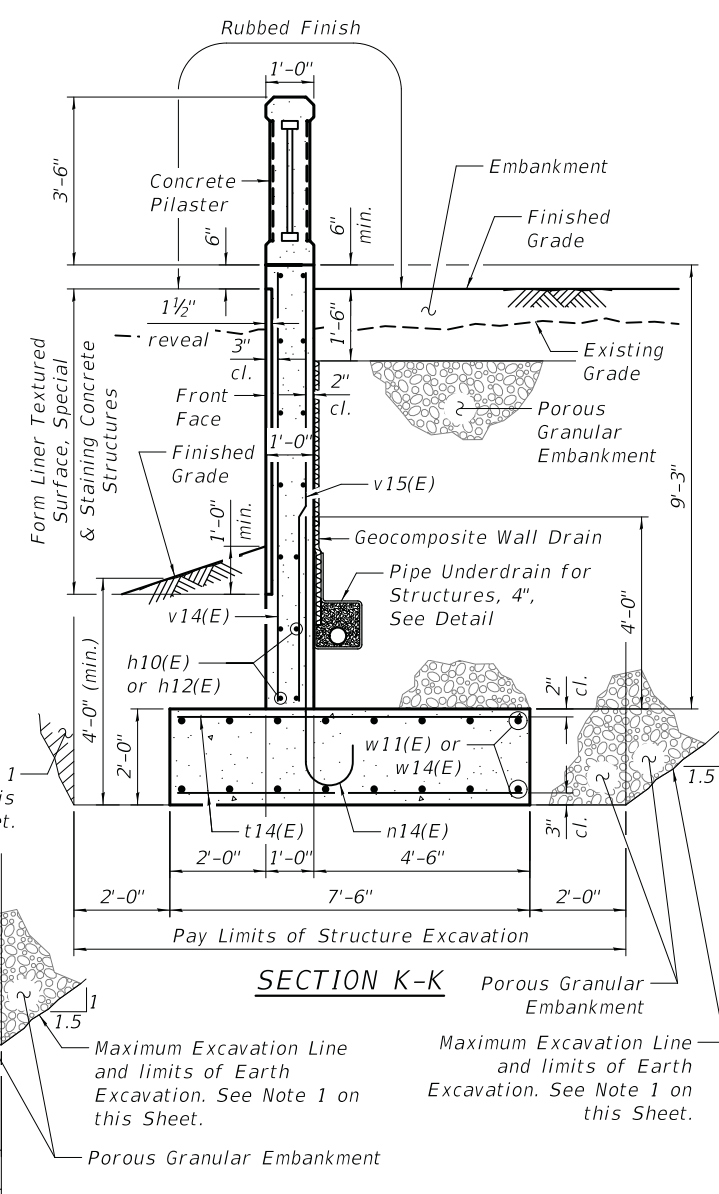
**BARS n10(E) THRU n14(E)**

Bar	A	B	C
n10(E)	7'-9"	0'-10"	0'-7"
n11(E)	9'-5"	0'-7"	0'-5"
n12(E)	6'-3"	0'-8"	0'-6"
n13(E)	8'-0"	0'-7"	0'-5"
n14(E)	5'-9"	0'-7"	0'-5"



**PIPE UNDERDRAIN DETAIL**

\*Included in the cost of Pipe Underdrains for Structures, 4"



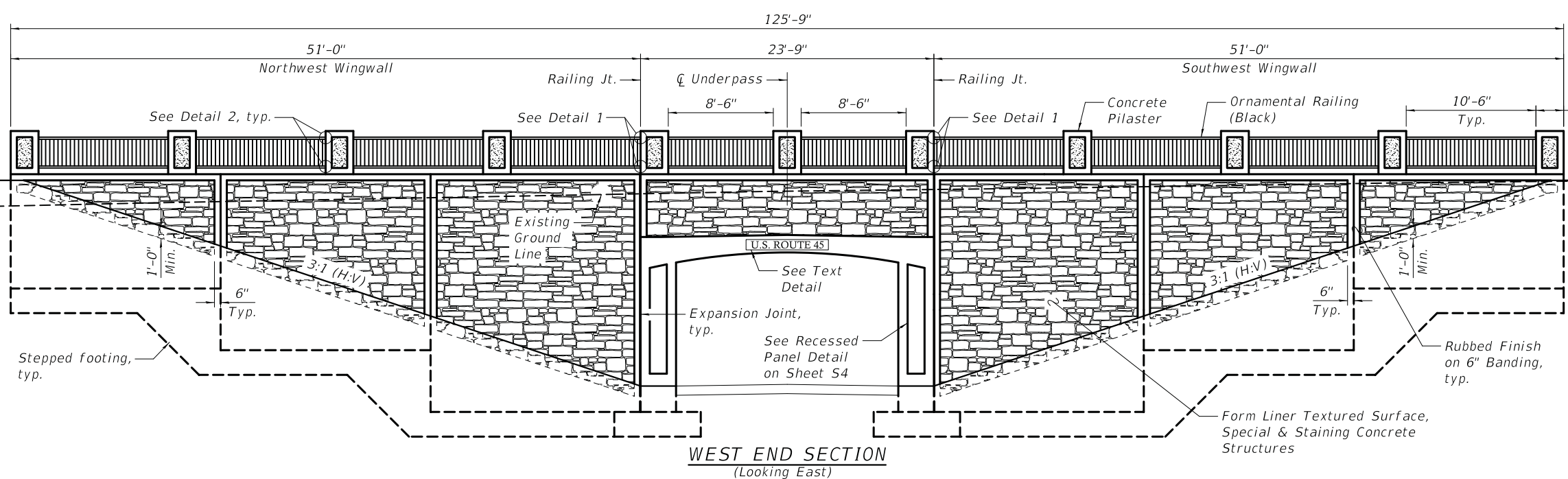
**SECTION K-K**

Note:  
1. Excavation beyond the limits of Structure Excavation will be paid for as Earth Excavation. See Roadway Plans for quantity.

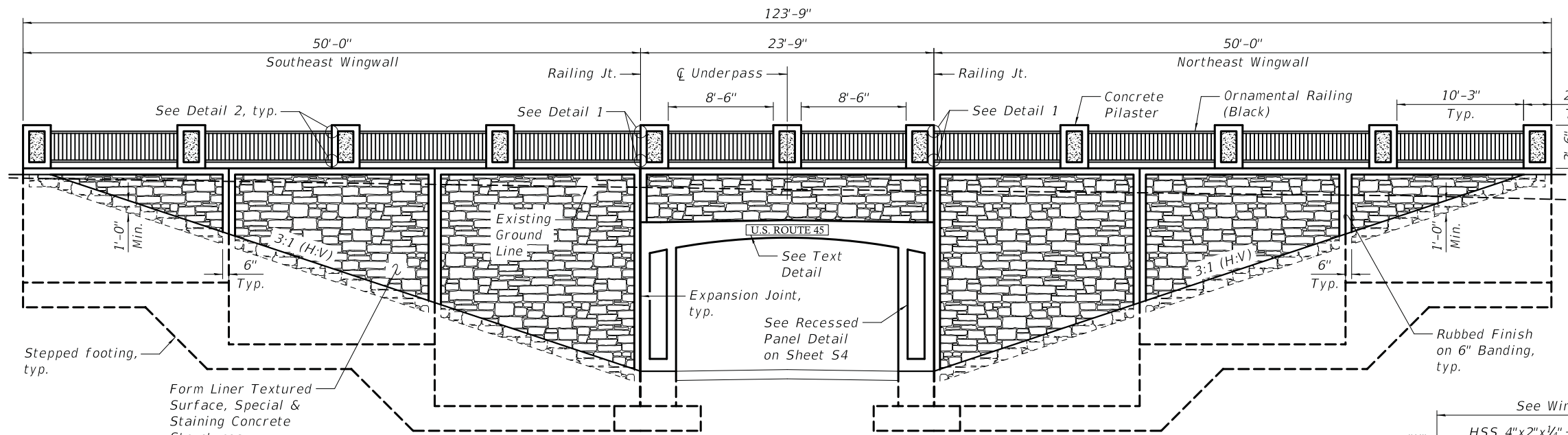
**BAR d10(E)**

**Bar e10(E)**

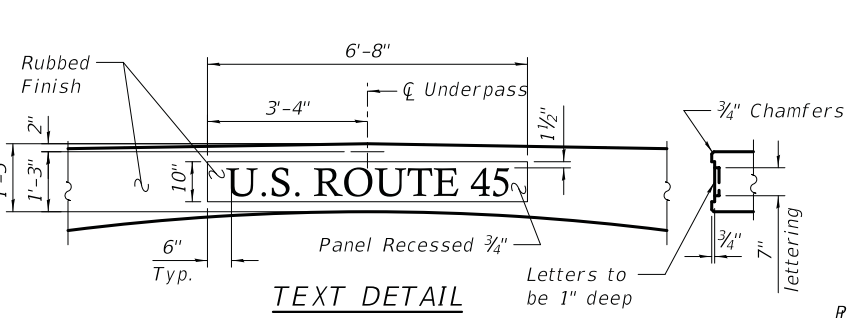
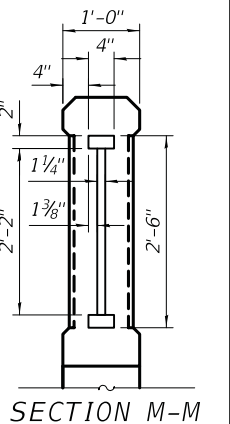
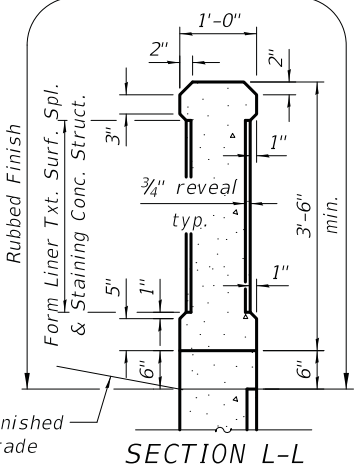
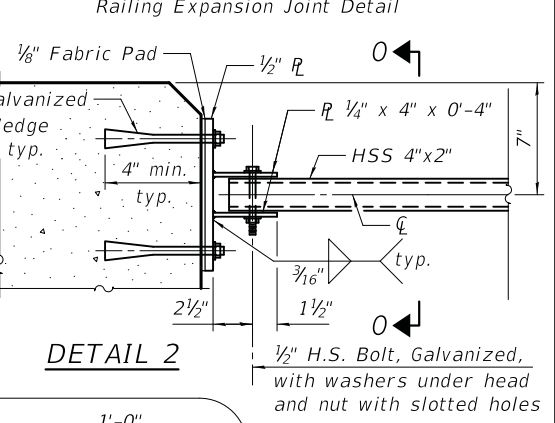
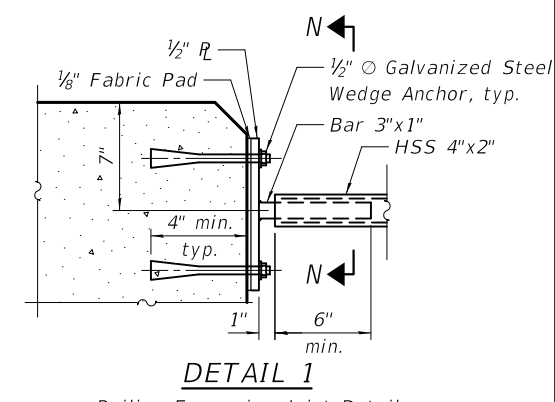
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**WEST END SECTION**  
(Looking East)

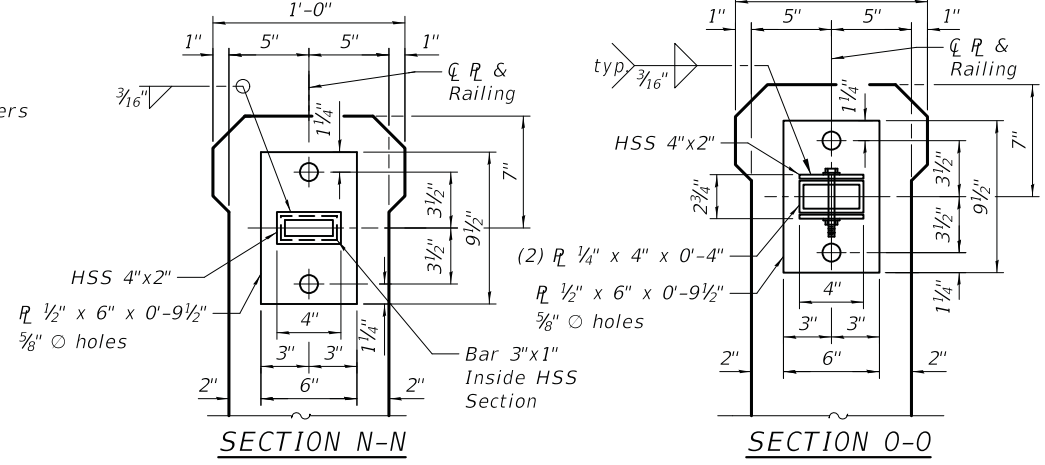


**EAST END SECTION**  
(Looking West)



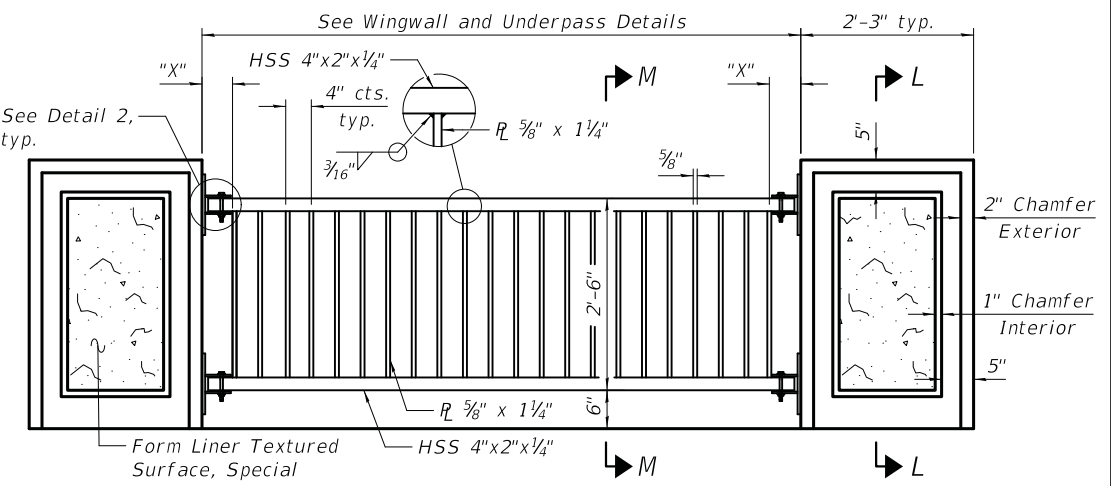
**TEXT DETAIL**

The Contractor shall provide a one-piece precast concrete name panel to be inset in the poured in place structure in the dimensions shown. This cost shall be included with Concrete Structures. Provide a shop drawing indications design mix, dimensions and attachment method.



**SECTION N-N**

**SECTION O-O**



**TYPICAL RAILING ELEVATION**

Dimension "X" Equals Remaining Distance After Even Plate Spacing

See Wingwall and Underpass sheets for Bills of Material

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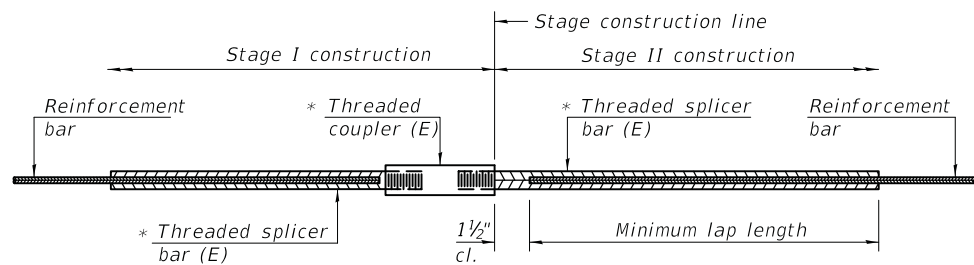
DRAWN	- J. LOAYZA-RAMOS	REVISED	-
DESIGNED	- J. LOAYZA-RAMOS	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 05/05/20	REVISED	-

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

**ARCHITECTURAL DETAILS**  
**U.S. ROUTE 45 OVER MILLENNIUM TRAIL**  
**STRUCTURE NO. 049-0505**  
SHEET NO. 59 OF 513 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	67

ILLINOIS FED. AID PROJECT

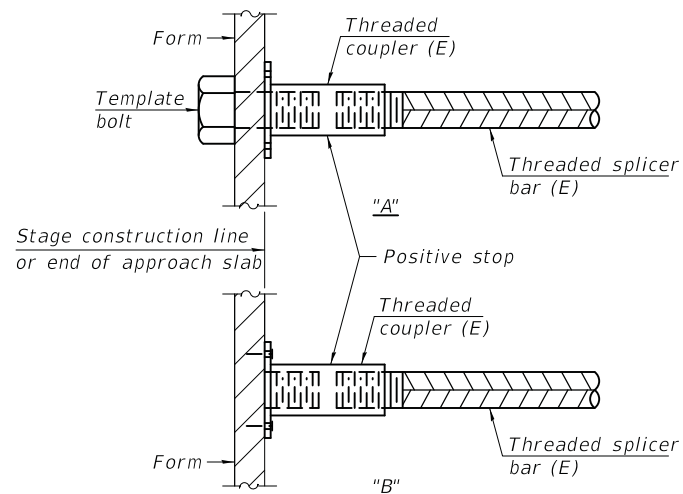


**STANDARD BAR SPLICER ASSEMBLY**

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

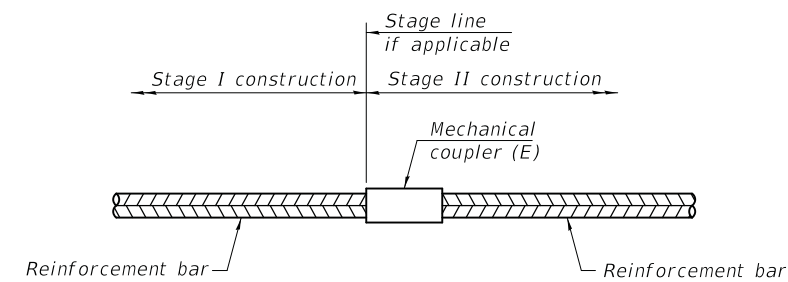
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Underpass Walls	#5	56	3'-7"
Underpass Top Slab	#5	42	3'-7"
Underpass Footings	#5	32	3'-7"



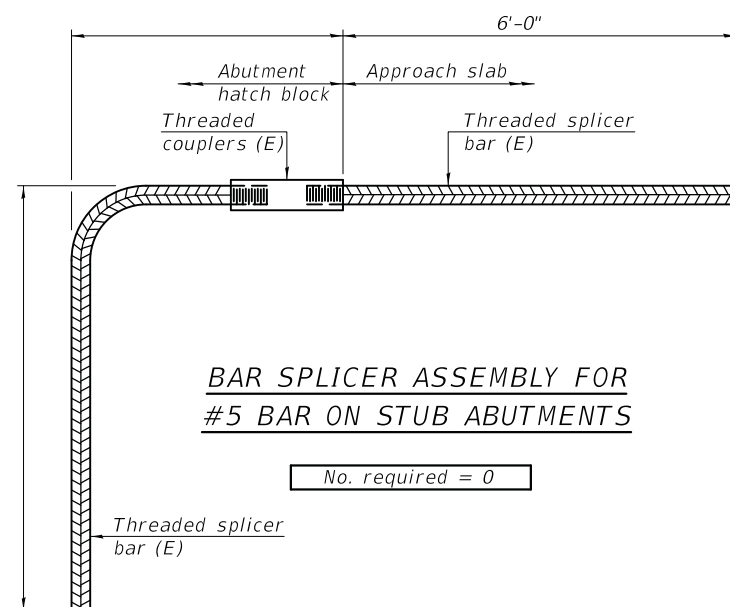
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = 0

**NOTES**

Splicer bars shall be deformed with Threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

2-17-2017



Two Pierce Place, Suite 1400  
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 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DRAWN	- J. LOAYZA-RAMOS	REVISED	-
DESIGNED	- J. LOAYZA-RAMOS	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 05/05/20	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS  
 U.S. ROUTE 45 OVER MILLENNIUM TRAIL  
 STRUCTURE NO. 049-0505**

SHEET NO. S10 OF 513 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	68

ILLINOIS FED. AID PROJECT

MSET PROJECT NO.: 17517		LOG OF BORING NO. SB-1		Page 1 of 2					
PROJECT: Millennium Trail Under Rt. 45			SITE LOCATION: Lake County, Illinois						
BORING LOCATION: Station 232+01, 92' L.			CLIENT: Civiltech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS		REMARKS
				TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	
0		Topsail - Black CLAY (12" +/-)	765.0						
		Brown and Grey CLAY, trace Sand, trace Gravel, A-6, hard to very stiff	764.0	SS 1	12	18	105	4.99	
4		Brown, Grey and Dark Grey, moist at 4.0'		SS 2	12	22	102	5.15	
				SS 3	14	21	103	5.77	
8				SS 4	11	22	102	3.88	
		Grey CLAY, trace Sand, trace Gravel, A-6, stiff	754.5	SS 5	8	33	86	1.59	
12		Brown to Grey Clay LOAM, A-6, moist, medium dense	752.0	SS 6	16	20		--	
16		Grey CLAY, trace Sand, trace Gravel, A-6, hard to stiff	749.5	SS 7	11	12	124	4.07	
				SS 8	7	17	113	1.94	
20				SS 9	5	16	113	1.75	
24				SS 10	11	15	116	3.69	
				SS 11	11	16	114	2.25	
28		Grey CLAY, trace Sand, trace Gravel, A-6, hard to stiff		SS 12	5	17	112	1.94	

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: 37.0'  
 IMMEDIATELY AFTER DRILLING: 28.6'  
 DELAYED READING AFTER

MSET

BORING STARTED: 10/25/17  
 BORING COMPLETED: 10/25/17  
 LOGGED BY: CPE  
 BORING METHOD: H.S.A.

Midland Standard Engineering & Testing, Inc. 411 Nolan Drive, South Elgin, Illinois 60177 (847) 844-1895 (847) 844-3875

MSET PROJECT NO.: 17517		LOG OF BORING NO. SB-1		Page 2 of 2					
PROJECT: Millennium Trail Under Rt. 45			SITE LOCATION: Lake County, Illinois						
BORING LOCATION: Station 232+01, 92' L.			CLIENT: Civiltech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS		REMARKS
				TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	
32				SS 13	8	16	117	2.13	
36									
		Grey SAND (f-m), A-3, wet, medium dense	728.0						
				SS 14A	8	18			
40		Grey CLAY, trace Sand, trace Gravel, A-6, very stiff	726.0	SS 14B	12	27	94	3.26	
		End of Boring at 40'	725.0						

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: 37.0'  
 IMMEDIATELY AFTER DRILLING: 28.6'  
 DELAYED READING AFTER

MSET

BORING STARTED: 10/25/17  
 BORING COMPLETED: 10/25/17  
 LOGGED BY: CPE  
 BORING METHOD: H.S.A.

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**CIVILTECH**  
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 www.civiltechinc.com

DRAWN - J. LOAYZA-RAMOS	REVISED -
DESIGNED - J. LOAYZA-RAMOS	REVISED -
CHECKED - G. HATLESTAD	REVISED -
DATE - 05/05/20	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**UNDERPASS SOIL BORING LOGS  
 U.S. ROUTE 45 OVER MILLENNIUM TRAIL  
 STRUCTURE NO. 049-0505**

SHEET NO. 511 OF 513 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	69
		ILLINOIS	FED. AID PROJECT	

MSET PROJECT NO.: 17517		LOG OF BORING NO. SB-2		Page 1 of 2					
PROJECT: Millennium Trail Under Rt. 45			SITE LOCATION: Lake County, Illinois						
BORING LOCATION: Station 232+02, 53' R			CLIENT: Civiltech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS		REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	
0		Topsail - Black CLAY (10" +/-)	762.5						Temporary Well Pipe Installed
		Brown and Grey, little Dark Grey CLAY, trace Sand, A-6, very stiff	761.7	SS 1	6	26	93	3.45	
4		Brown and Grey CLAY, trace Sand, trace Gravel, A-6, stiff to very stiff	759.5	SS 2	7	32	91	1.40	
		hard		SS 3	19	21	103	7.29	
				SS 4	13	26	95	3.84	
12		Grey CLAY, trace Sand, trace Gravel, A-6, moist, stiff	750.5	SS 5	6	24	97	1.47	
		Grey Clay LOAM, little Sand, trace Gravel, A-6, moist, stiff	749.0	SS 6	9	16	113	1.16	
16		Grey CLAY, trace Sand, trace Gravel, A-6, very stiff	747.0	SS 7	12	15	119	3.38	
				SS 8	11	15	116	3.49	
				SS 9	9	16	114	2.25	
24		Grey CLAY, trace Sand, trace Gravel, A-6, very stiff		SS 10	8	16	114	2.68	
				SS 11	10	18	110	2.41	
28				SS 12	9	17	114	2.21	

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: 35.0'  
 IMMEDIATELY AFTER DRILLING: 18.0'  
 DELAYED READING AFTER 20 Days: 17.8'  

 BORING STARTED: 10/25/17  
 BORING COMPLETED: 10/25/17  
 LOGGED BY: CPE  
 BORING METHOD: H.S.A.

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MSET PROJECT NO.: 17517		LOG OF BORING NO. SB-2		Page 2 of 2					
PROJECT: Millennium Trail Under Rt. 45			SITE LOCATION: Lake County, Illinois						
BORING LOCATION: Station 232+02, 53' R			CLIENT: Civiltech Engineering, Inc.						
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS		REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	
32				SS 13	12	17	114	3.45	
36		Grey SAND (f-m), A-3, moist to wet, slightly dense	727.5						
40		Grey CLAY, trace Sand, trace Gravel, A-6, hard	723.0	SS 14A	8	26		--	End of Boring at 40'
			722.5	SS 14B	18	17		4.35	

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: 35.0'  
 IMMEDIATELY AFTER DRILLING: 18.0'  
 DELAYED READING AFTER 20 Days: 17.8'  

 BORING STARTED: 10/25/17  
 BORING COMPLETED: 10/25/17  
 LOGGED BY: CPE  
 BORING METHOD: H.S.A.

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DESIGNED	- J. LOAYZA-RAMOS	REVISED	-
CHECKED	- G. HATLESTAD	REVISED	-
DATE	- 05/05/20	REVISED	-

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

**UNDERPASS SOIL BORING LOGS**  
**U.S. ROUTE 45 OVER MILLENNIUM TRAIL**  
**STRUCTURE NO. 049-0505**  
 SHEET NO. 512 OF 513 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	70
		ILLINOIS	FED. AID PROJECT	

MSET PROJECT NO.: 17517		LOG OF BORING NO. SB-3		Page 1 of 2						
PROJECT: Millennium Trail Under Rt. 45			SITE LOCATION: Lake County, Illinois							
BORING LOCATION: Station 232+02, 24' L.			CLIENT: Civiltech Engineering, Inc.							
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, lb	
0		FILL - Crushed Gravel (5") over Brown, Grey and Dark Grey CLAY, little Sand, A-6, hard	765.5	SS 1A	4	26	96	5.63		
		Black CLAY, A-7-6, very stiff	764.0	SS 1B	10	27	89	3.96		
4		Brown, Grey and Dark Grey CLAY, trace Sand, A-6, stiff	762.5	SS 2	6	32	83	1.24		
		Brown and Grey CLAY, trace Sand, trace Gravel, A-6, hard	759.5	SS 3	13	22	100	7.26		
8				SS 4	21	21	104	9.12		
12		Grey CLAY, trace Sand, trace Gravel, A-6, very stiff to stiff	752.5	SS 5	17	22	101	6.91		
		Sand seam at 16.2', wet		SS 6	7	30	88	3.10		
16				SS 7	8	17	113	3.34		
20				SS 8	15	15	117	4.15		
24				SS 9	9	17	113	2.13		
28		Grey CLAY, trace Sand, trace Gravel, A-6, very stiff to stiff		SS 10	7	18	108	1.90		
				SS 11	11	17	112	1.04		
				SS 12	9	17	113	1.78		

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: 16.2'  
 IMMEDIATELY AFTER DRILLING: 27.7'  
 DELAYED READING AFTER



BORING STARTED: 10/25/17  
 BORING COMPLETED: 10/25/17  
 LOGGED BY: CPE  
 BORING METHOD: H.S.A.

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MSET PROJECT NO.: 17517		LOG OF BORING NO. SB-3		Page 2 of 2						
PROJECT: Millennium Trail Under Rt. 45			SITE LOCATION: Lake County, Illinois							
BORING LOCATION: Station 232+02, 24' L.			CLIENT: Civiltech Engineering, Inc.							
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, lb	
32				SS 13	9	16	113	2.06		
36										
		Grey SAND (f-m), A-3, wet, medium dense	728.0	SS 14	13	16				clay in tip
40		End of Boring at 40'	725.5							

WATER LEVEL OBSERVATIONS, ft.  
 DURING DRILLING: 16.2'  
 IMMEDIATELY AFTER DRILLING: 27.7'  
 DELAYED READING AFTER



BORING STARTED: 10/25/17  
 BORING COMPLETED: 10/25/17  
 LOGGED BY: CPE  
 BORING METHOD: H.S.A.

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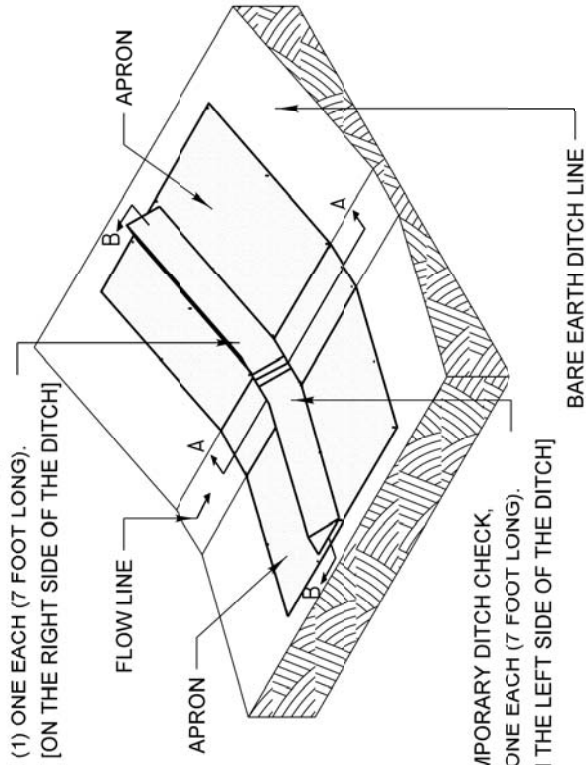
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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

## FOR BARE EARTH APPLICATION ONLY

TEMPORARY DITCH CHECK,  
(1) ONE EACH (7 FOOT LONG),  
[ON THE RIGHT SIDE OF THE DITCH]



TEMPORARY DITCH CHECK,  
(1) ONE EACH (7 FOOT LONG),  
[ON THE LEFT SIDE OF THE DITCH]

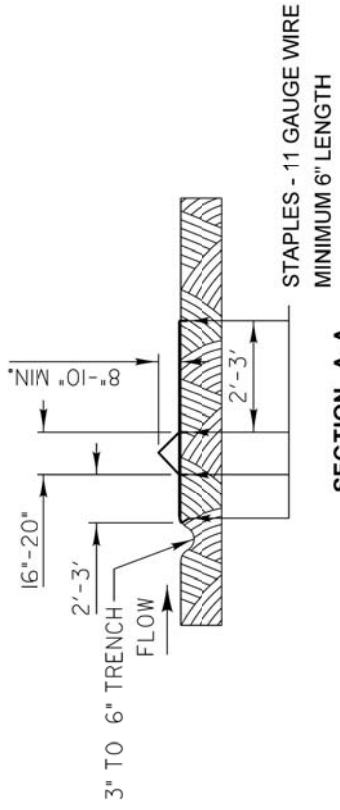
### SILT DIKE UNIT ISOMETRIC

NOTES:  
THE TEMPORARY DITCH CHECK SHALL BE USED IN BARE EARTH DITCH LINES AND SHALL BE REMOVED JUST PRIOR TO THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A TEMPORARY DITCH CHECK 14 FEET IN LENGTH.

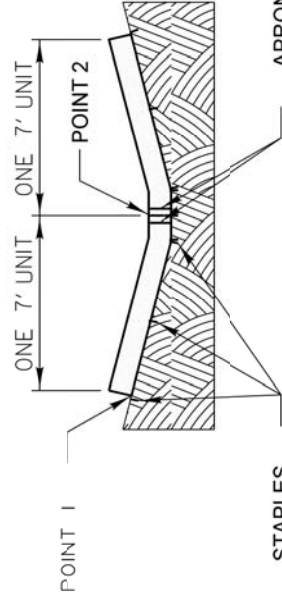
STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAM.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.



### SECTION A-A

STAPLES - 11 GAUGE WIRE  
MINIMUM 6" LENGTH



### SECTION B-B

REVISIONS		DATE	APPROVED BY: M. G. ZEMAITIS
ADDED DIMENSIONS	04/17/08	LakeCounty	DATE: APRIL 1, 2007
REVISED PAY ITEM	04/15/10	Division of Transportation	
ADDED PLASTIC BERM (pp2)	10/10/12		

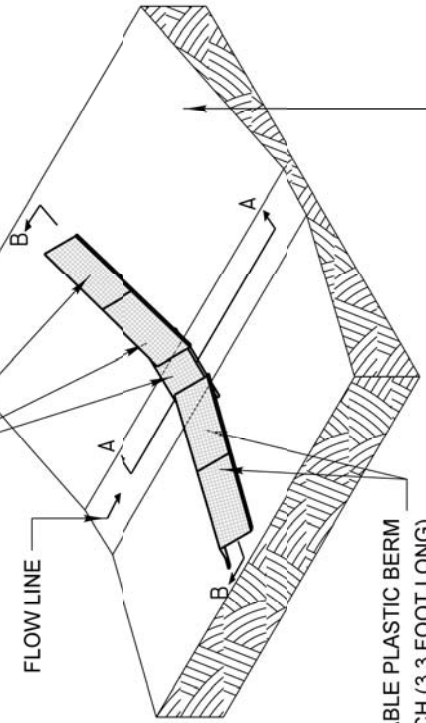
## TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH

(SHEET 1 OF 2)

LC2050

## FOR USE WHILE ESTABLISHING FINAL LANDSCAPING

PERMEABLE PLASTIC BERM  
ONE EACH (3.3 FOOT LONG)



PERMEABLE PLASTIC BERM  
ONE EACH (3.3 FOOT LONG)

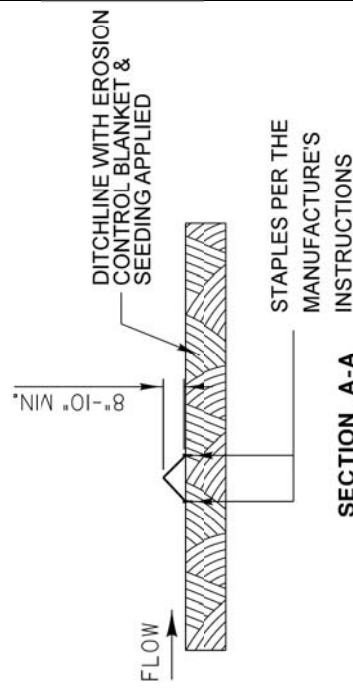
### PERMEABLE PLASTIC BERM ISOMETRIC

NOTES:  
THE PERMEABLE PLASTIC BERM SHALL REPLACE THE TEMPORARY DITCH CHECK AFTER THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

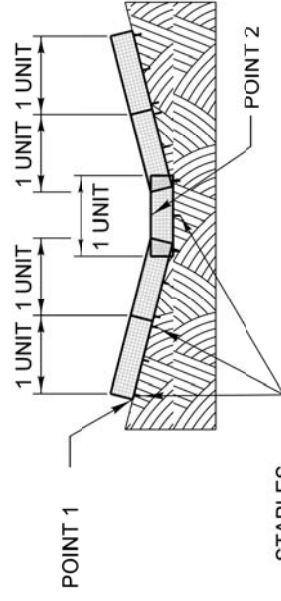
EACH PERMEABLE PLASTIC BERM IS 3.3 FEET IN LENGTH. THE MINIMUM INSTALLATION IN A DITCH SHALL BE THREE UNITS. THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A PERMEABLE PLASTIC BERM 16.5 FEET IN LENGTH (5 UNITS).

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS THROUGH OR OVER THE BERM AND NOT AROUND THE ENDS.



### SECTION A-A



### SECTION B-B

REVISIONS		DATE	APPROVED BY: M. G. ZEMAITIS
ADDED DIMENSIONS	04/17/08	LakeCounty	DATE: APRIL 1, 2007
REVISED PAY ITEM	04/15/10	Division of Transportation	
ADDED PLASTIC BERM (pp2)	10/10/12		

## TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH

(SHEET 2 OF 2)

LC2050



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CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CONSTRUCTION DETAILS

SHEET 1 OF 4 SHEETS

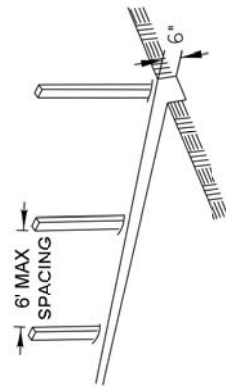
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	72
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



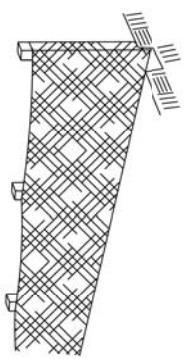
FINAL SURVEY NO.	SURVEY PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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

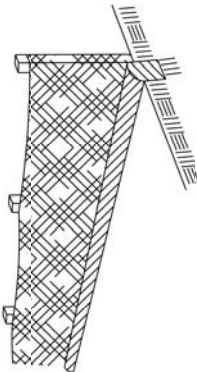
1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS



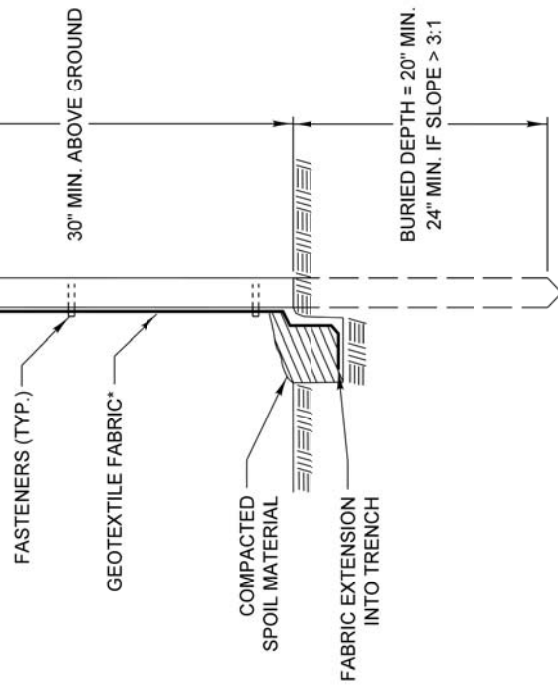
2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH



3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS



POSTS - CHOICE OF:  
 1.2" X 1.2" NOMINAL HARDWOOD POSTS  
 2.6" X 2.6" NOMINAL NO.2 SOUTHERN PINE OR U.T.L. OR C-SHAPE STEEL POSTS WITH MIN. WEIGHT 1.33 LBS/FT

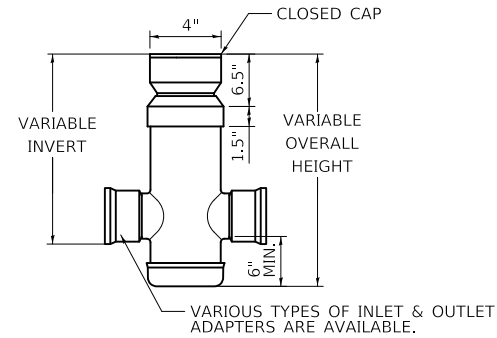


\* NOTE: OPTIONAL WIRE SUPPORT  
 - MIN. 30" HEIGHT  
 - MIN. 14 GAUGE WIRE  
 - MIN. 6 HORIZ. WIRES  
 - MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

Requirements	Test Methods	Wire Backed Supported Silt Fence <sup>a</sup>	Geotextile Elongation >=50% <sup>b</sup>	Unsupported Silt Fence Geotextile Elongation <50% <sup>b</sup>
Maximum Post Spacing	ASTM D 4632	4 feet	4 feet	6 feet
Grab Strength		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100lbs
Permittivity <sup>c</sup>	ASTM D 4491	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>	0.05 sec <sup>-1</sup>
Apparent Opening Size	ASTM D 4751	0.024in	maximum average roll value	
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

REVISIONS	DATE	APPROVED BY: M. G. ZEMAITIS
ORIG. by LCSM/C	4/21/08	DATE: JUNE 20, 2008
Update Text	7/15/11	
<b>PERIMETER EROSION BARRIER INSTALLATION</b>		



FIELD TILE OBSERVATION STRUCTURE DETAIL  
 (PAID FOR AS "OBSERVATION STRUCTURE (EXISTING DRAIN TILE)")

- NOTES:  
 1. STRUCTURE TYPE TO BE APPROVED BY OWNER PRIOR TO INSTALLATION.  
 2. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.



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CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CONSTRUCTION DETAILS

SHEET 2 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	73
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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

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



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Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

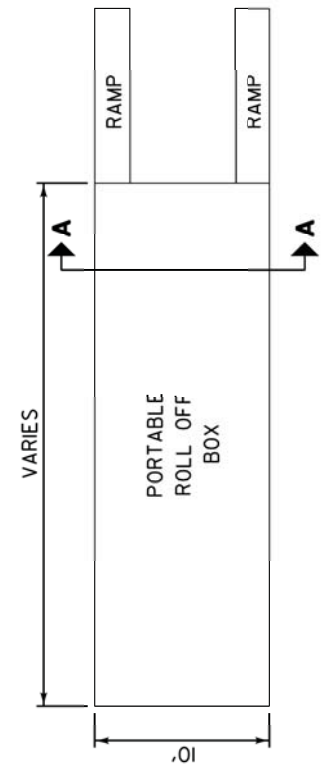
DESIGNED - PK	REVISED -
DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

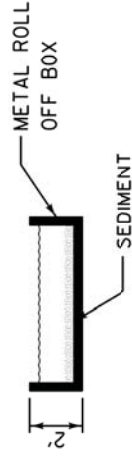
US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CONSTRUCTION DETAILS

SHEET 3 OF 4 SHEETS

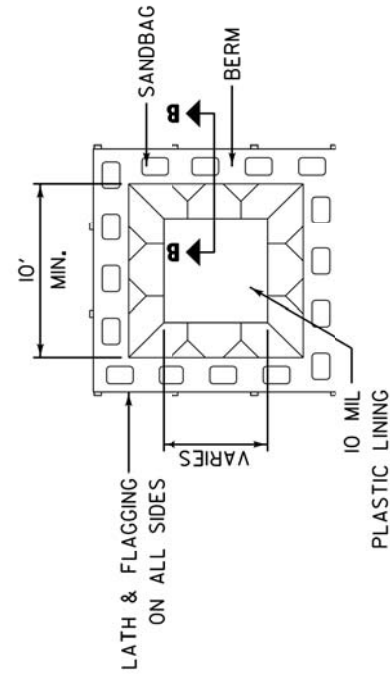
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	74
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN VIEW PREFAB PORTABLE WASHOUT

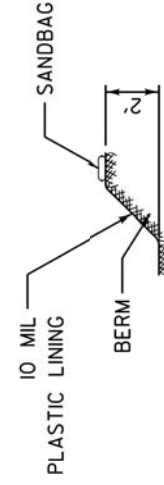


SECTION A-A



PLAN VIEW

BELOW GRADE



SECTION B-B

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS

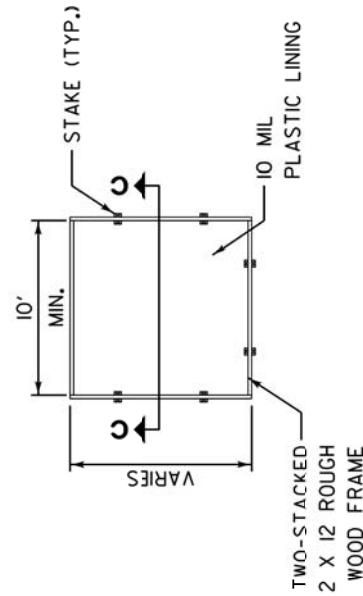
REVISIONS	DATE



APPROVED BY: MCZ  
DATE: March 17, 2008

LC4202

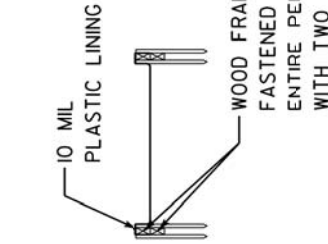
CONCRETE WASHOUT FACILITIES  
SHEET 1 OF 2



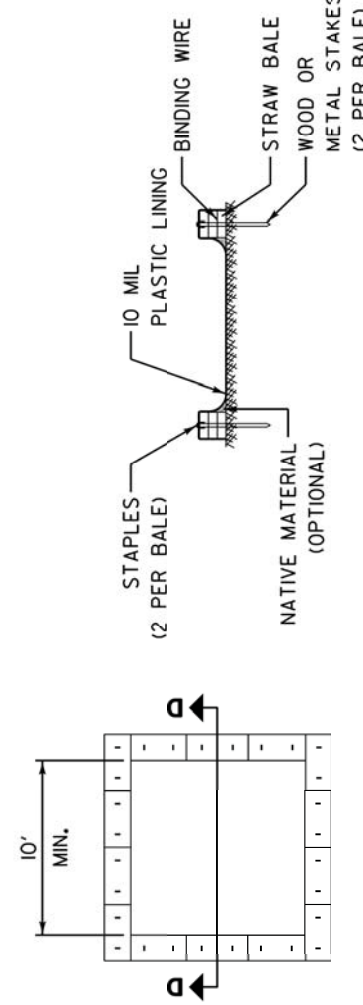
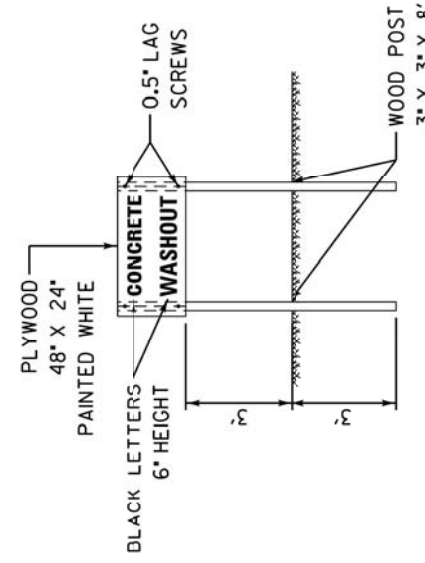
PLAN VIEW

ABOVE GRADE

SECTION C-C



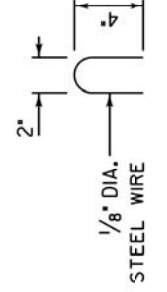
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



PLAN VIEW

ABOVE GRADE WITH

SECTION D-D



NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

NOT TO SCALE

REVISIONS

REVISIONS	DATE



APPROVED BY: MCZ  
DATE: March 17, 2008

LC4202

CONCRETE WASHOUT FACILITIES  
SHEET 2 OF 2

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

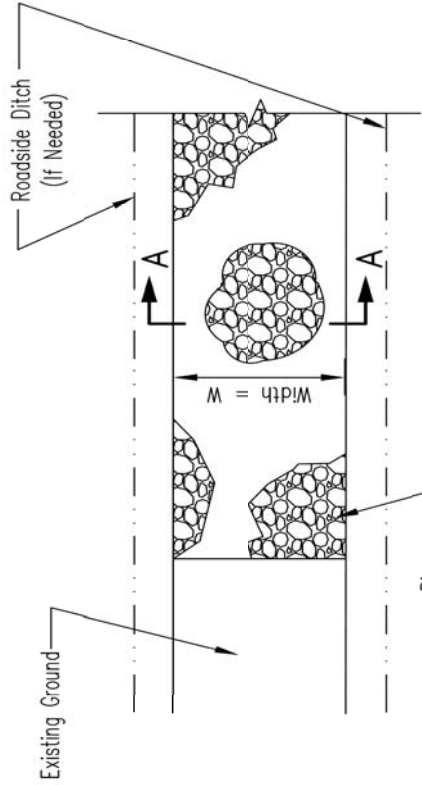
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

DESIGNED - PK	REVISED -
DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

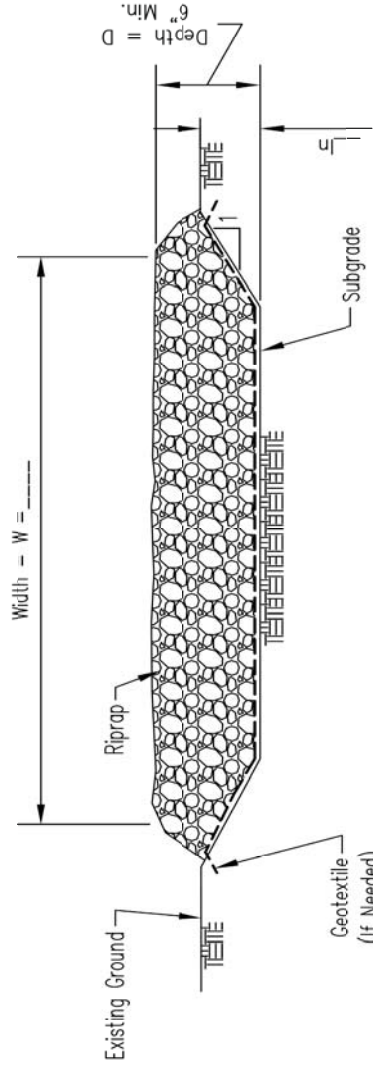
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	75
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**NOTES:**

1. Rock shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
2. See plans for construction road location, D and W dimensions.
3. Minimum width is 14 feet for one-way traffic and 20 feet for two-way traffic. Two-way traffic widths shall be increased a minimum of 4 feet for trailer traffic. Depending on the type of vehicle or equipment, speed, loads, climatic and other conditions under which vehicles and equipment operate an increase in the minimum widths may be required.
4. Roadway shall follow the contour of the natural terrain to the extent possible.
5. Geotextile (non-woven, needle punched) min. criteria:  
 Grab Tensile strength (lb) ASTM D 4632 \_\_\_\_\_ 202  
 Elongation at failure (%) ASTM D 4632 \_\_\_\_\_ ≥50  
 Trapezoidal tear strength (lb) ASTM D 4533 \_\_\_\_\_ 79  
 Puncture strength (lb) ASTM D 6241 \_\_\_\_\_ 433  
 Ultraviolet light (% retained strength) ASTM 4355 \_\_\_\_\_ min 50  
 Apparent opening size (AOS) ASTM D 4751 \_\_\_\_\_  
 max 0.22 mm (US sieve size 70)  
 Permittivity sec<sup>-1</sup>/ ASTM D 4491 \_\_\_\_\_ min 0.70
6. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.



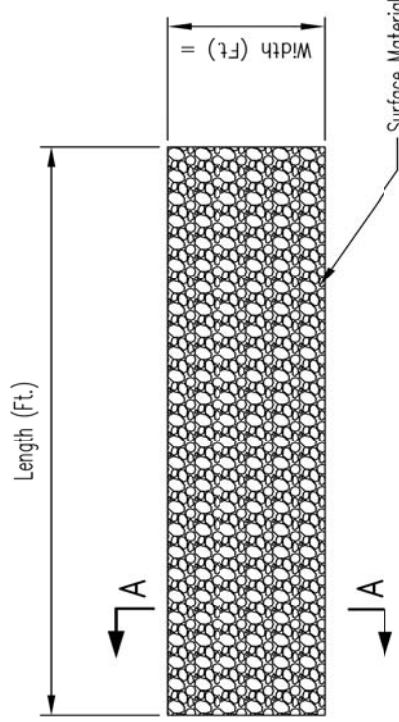
**PLAN VIEW**



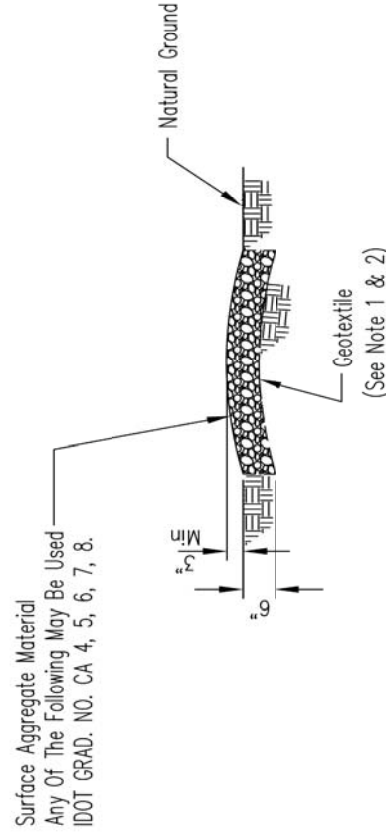
**SECTION A-A**

BILL OF MATERIAL	
Length	Feet
Width	Feet
Surface Material	Tons
Geotextile	Sq.Yd.

- NOTES:**
1. Geotextile (non-woven, needle punched) min. criteria:  
 Grab Tensile strength (lb) ASTM D 4632 \_\_\_\_\_ 202  
 Elongation at failure (%) ASTM D 4632 \_\_\_\_\_ ≥50  
 Trapezoidal tear strength (lb) ASTM D 4533 \_\_\_\_\_ 79  
 Puncture strength (lb) ASTM D 6241 \_\_\_\_\_ 433  
 Ultraviolet light (% retained strength) ASTM 4355 min 50  
 Apparent opening size (AOS) ASTM D 4751 \_\_\_\_\_  
 max 0.22 mm (US sieve size 70)  
 Permittivity sec<sup>-1</sup>/ ASTM D 4491 \_\_\_\_\_ min 0.70
  2. Any geotextile splices shall overlap a minimum of 18 inches, with upstream or upslope geotextile overlapping the abutting downslope geotextile.
  3. Crown the surface aggregate 3" to 6" above natural ground to prevent water from ponding on the surface.
  4. Compact the road surface with the track or tire of the equipment used for construction over the entire surface and shall not leave any large depressions or irregularities that would not drain.
  5. Revegetate non-crop areas disturbed by construction as specified in construction plans.



**ACCESS ROAD PLAN VIEW**



**SECTION A-A**

Designed	M. GUINONES	Date	10/7/13
Drawn	M. GUINONES		
Checked			
Approved			

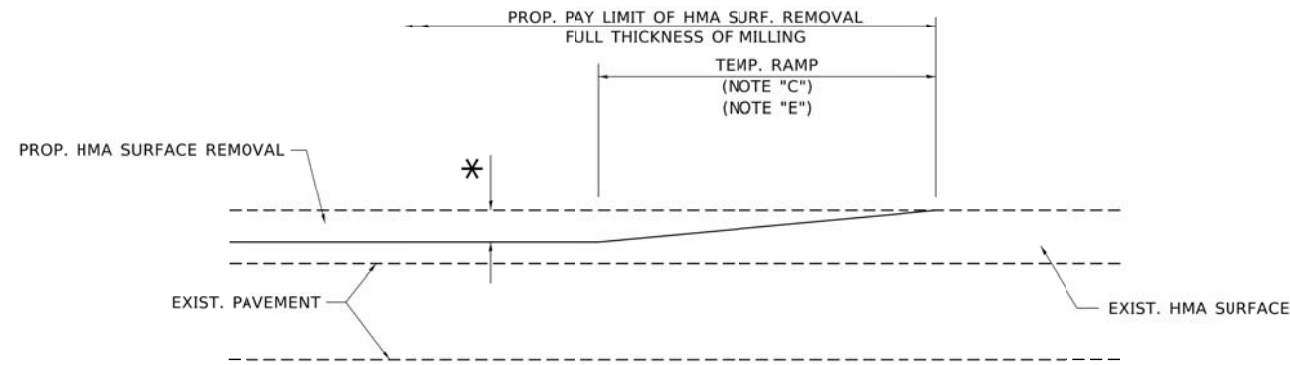
**CONSTRUCTION ROAD  
 STABILIZATION**

United States Department of Agriculture	USDA	Natural Resources Conservation Service
File No.	IL-ENG-58	Drawing No.
		Page 1 of 1
		Sheet of

Designed	M. GUINONES	Date	9/17/17
Drawn			
Checked			
Approved			

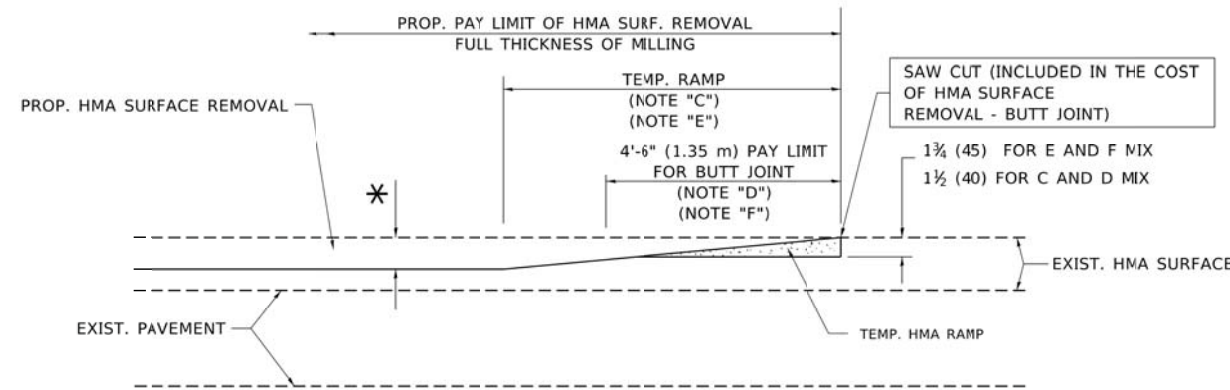
**ACCESS ROAD DETAIL**

United States Department of Agriculture	USDA	Natural Resources Conservation Service
File No.	IL-ENG-01	Drawing No.
		Page 1 of 1
		Sheet of



**MILLED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

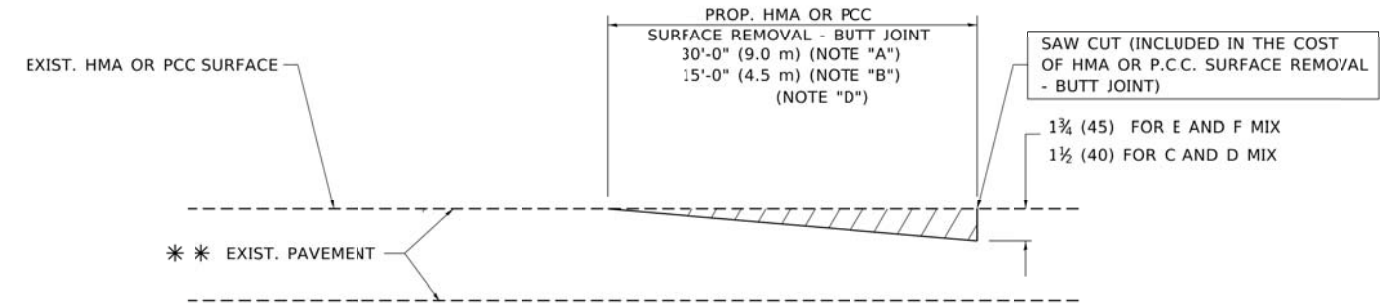
**OPTION 1**



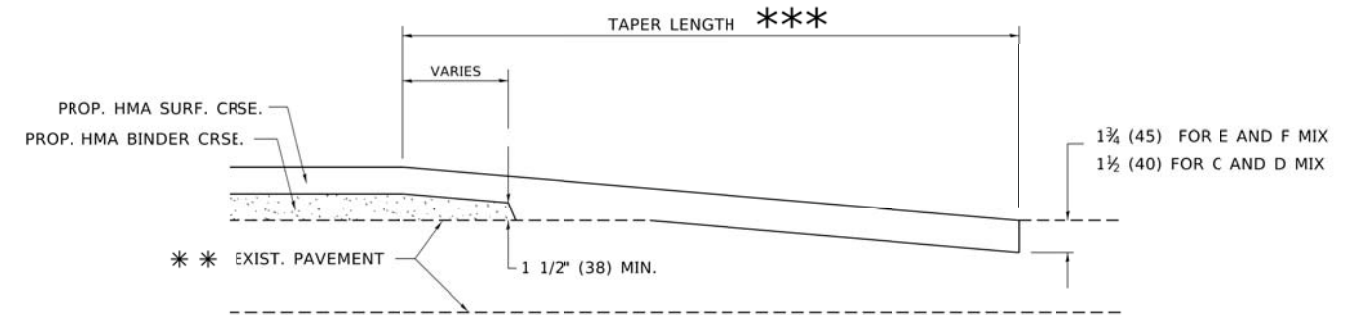
**HMA CONSTRUCTED TEMPORARY RAMP**  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

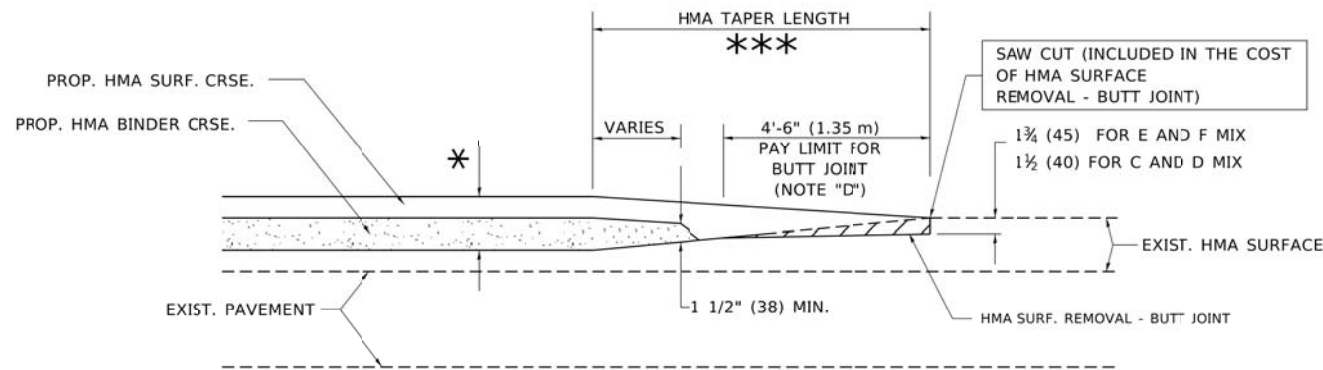
**NOTES**

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.  
\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".  
\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



**BUTT JOINT AND HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

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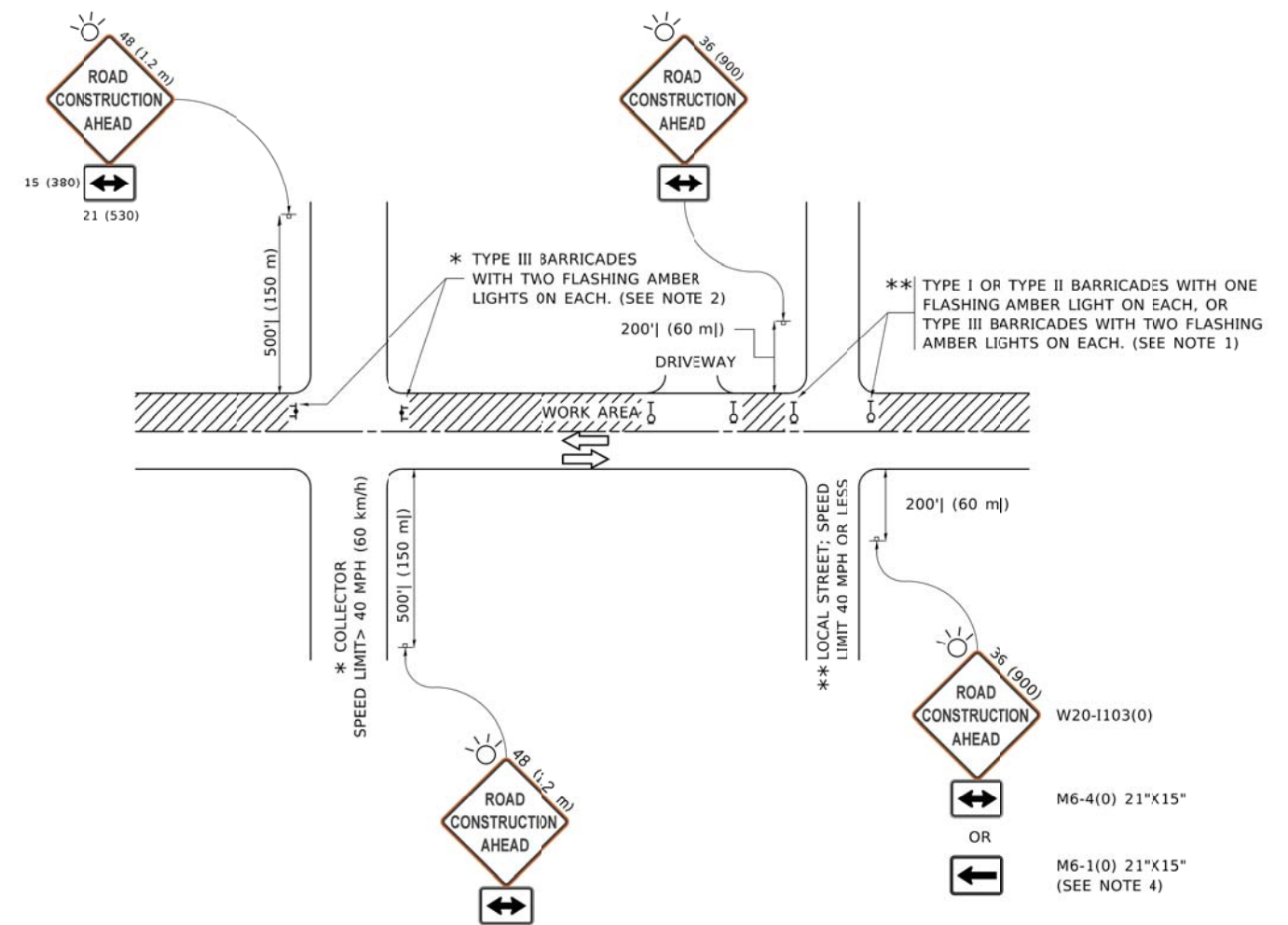
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	DRAWN -	REVISED - A. ABBAS 03-21-97
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*LOT DATE = 3/27/2019	DATE - 06-13-90	REVISED - R.BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	76
BD400-05 BD32		CONTRACT NO. 61G65		
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.  
THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

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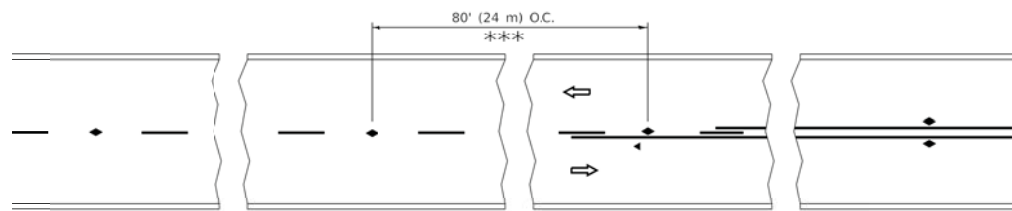
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%LOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

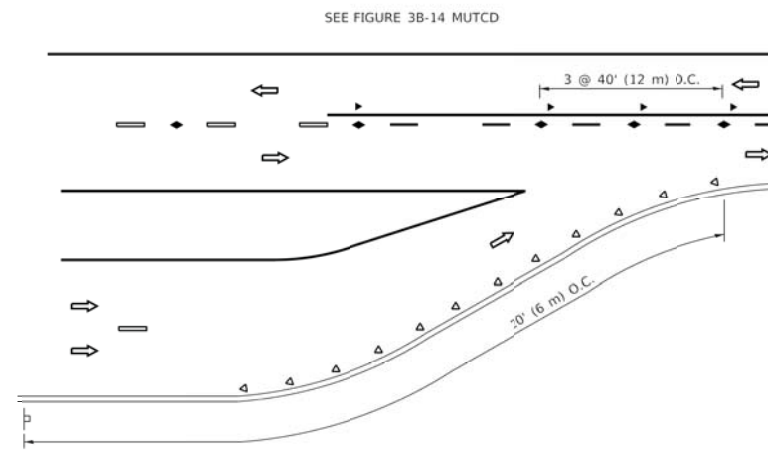
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>		CONTRACT NO. 61G65		
ILLINOIS   FED. AID PROJECT				

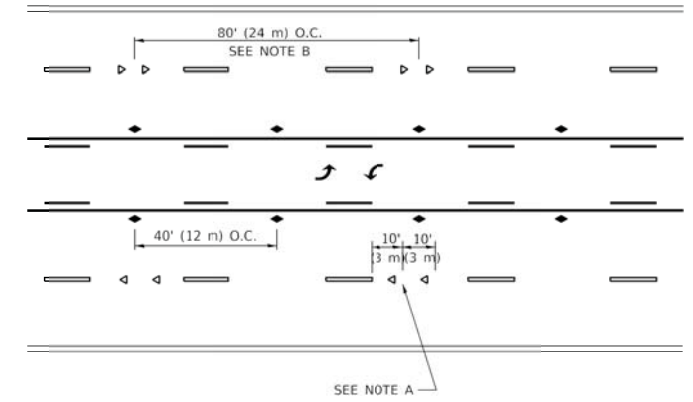


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 15 M.P.H. (70 km/h) OR LESS.

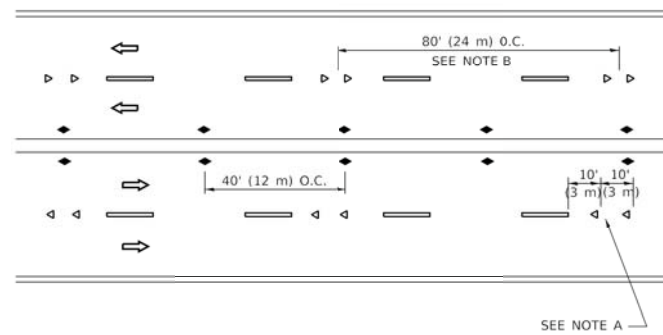
**TWO-LANE/TWO-WAY**



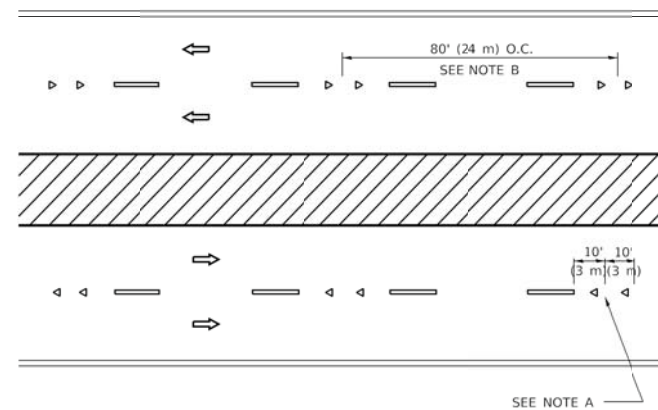
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWC CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES.

**SYMBOLS**

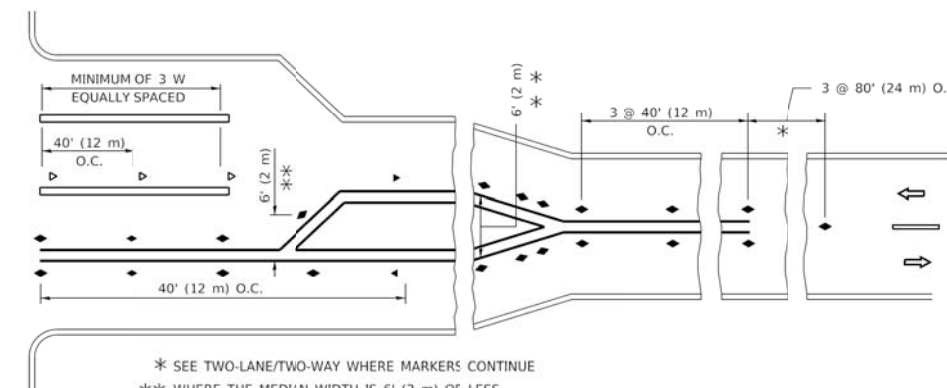
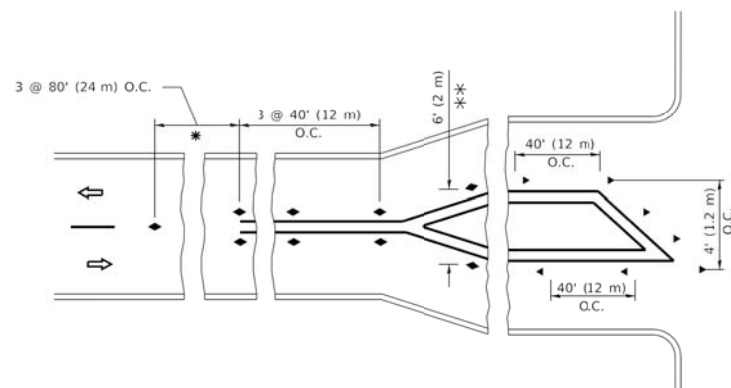
- YELLOW STRIPE
- WHITE STRIPE
- ◄ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



**TURN LANES**

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

All dimensions are in inches (millimeters) unless otherwise shown.

MODEL: Default  
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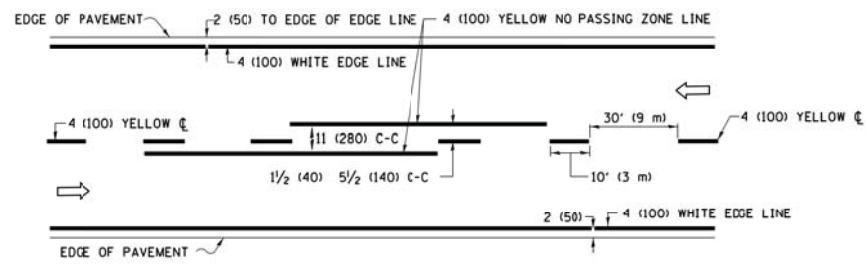
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LOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

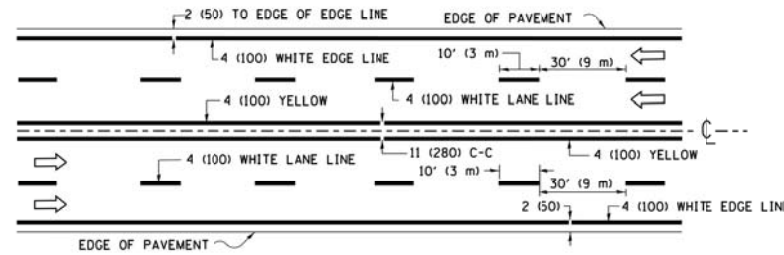
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

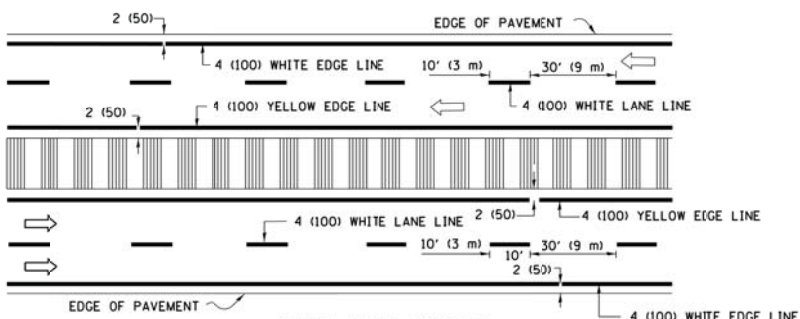
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	78
TC-11			CONTRACT NO. 61G65	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**

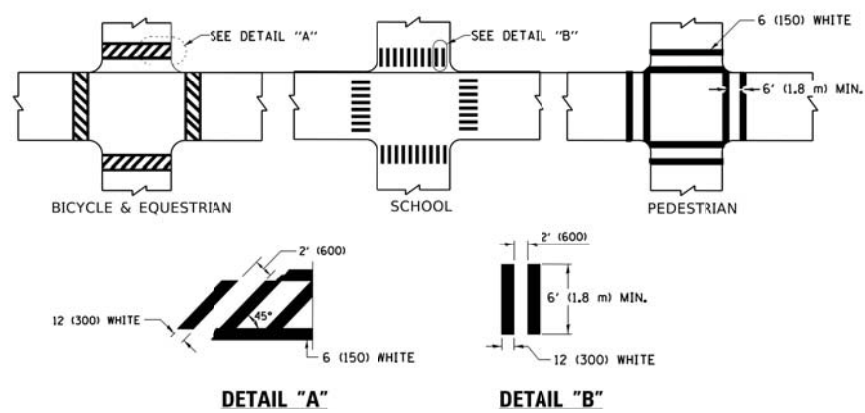


**MULTI-LANE UNDIVIDED**

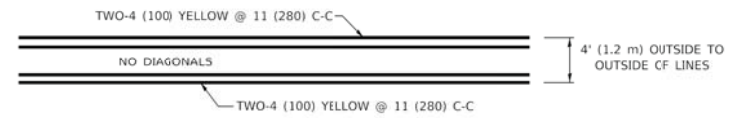


**MULTI-LANE DIVIDED WITH MEDIAN**

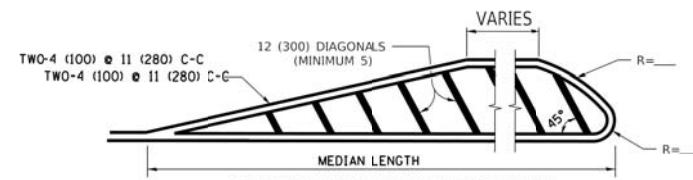
**TYPICAL LANE AND EDGE LINE MARKING**



**TYPICAL CROSSWALK MARKING**

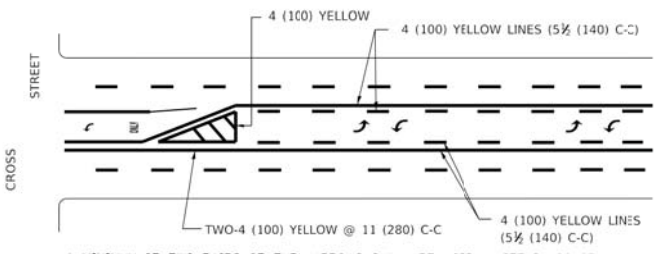


**4' (1.2 m) WIDE MEDIANS ONLY**



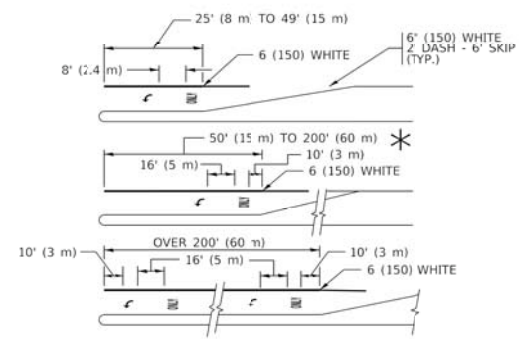
**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



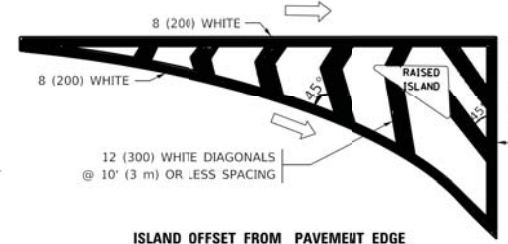
**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

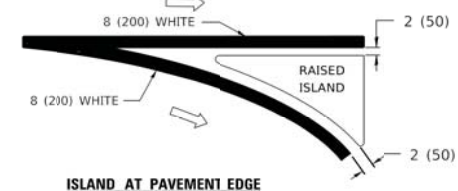


**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

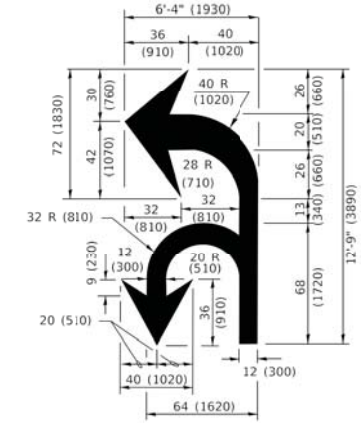


**ISLAND OFFSET FROM PAVEMENT EDGE**

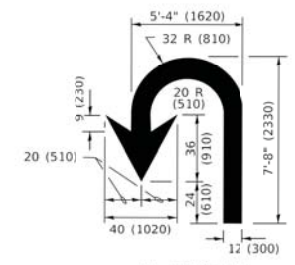


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' (4.5 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA CF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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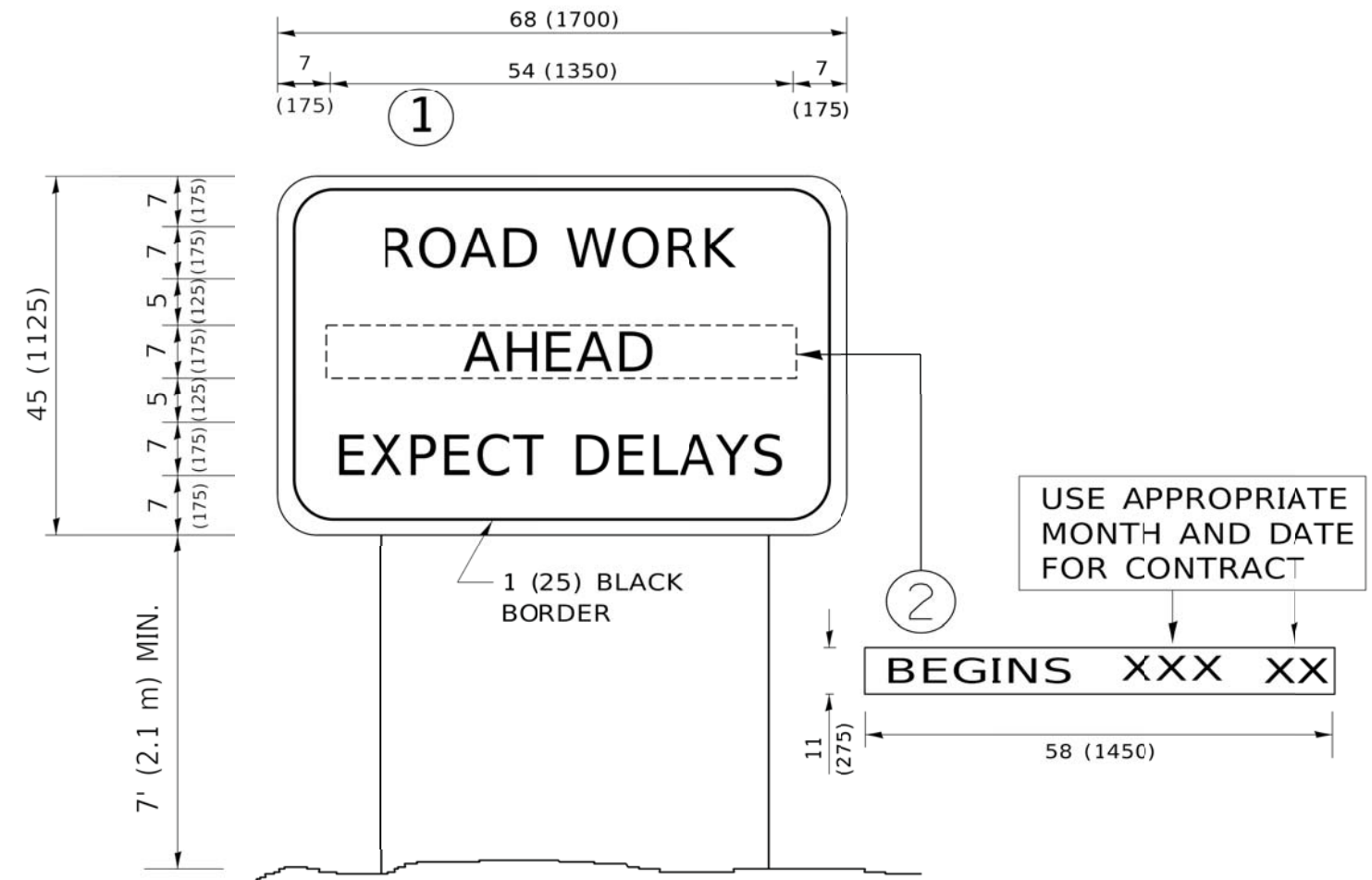
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DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	79
<b>TC-13</b>			CONTRACT NO.	61G65
ILLINOIS / FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFCRMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default  
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	DRAWN -	REVISED - R. MIRS 12-11-97
*LOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - T. RAMMACHER 02-02-99
*LOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

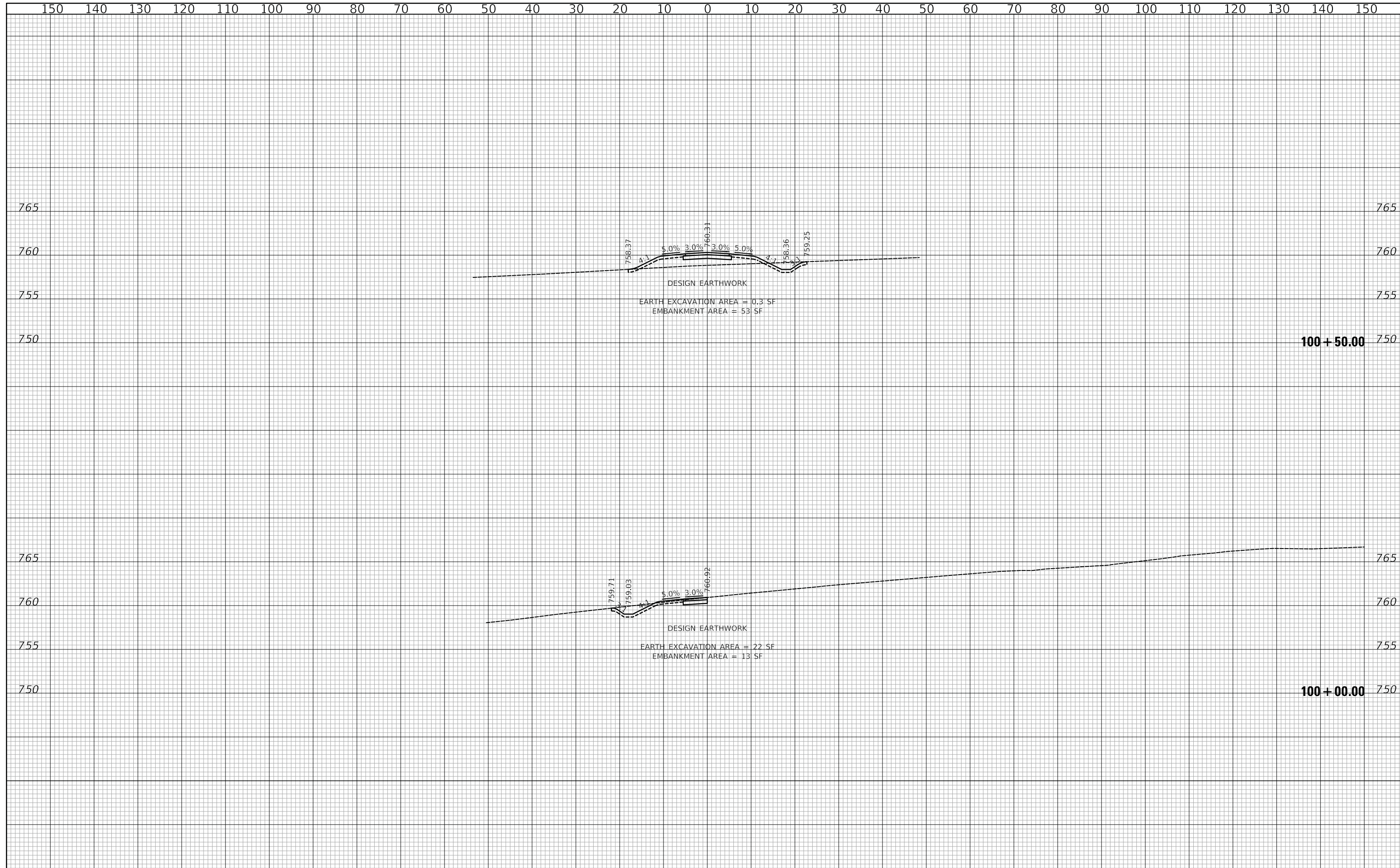
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0344	16-F3000-05-BT	LAKE	146	80
<b>TC-22</b>			CONTRACT NO. 61G65	
ILLINOIS FED. AID PROJECT				



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

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



DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 0.3 SF  
 EMBANKMENT AREA = 53 SF

DESIGN EARTHWORK  
 EARTH EXCAVATION AREA = 22 SF  
 EMBANKMENT AREA = 13 SF

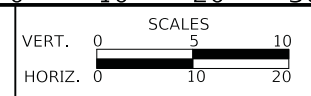
**100 + 50.00**

**100 + 00.00**

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DRAWN - AAS	REVISED -
CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
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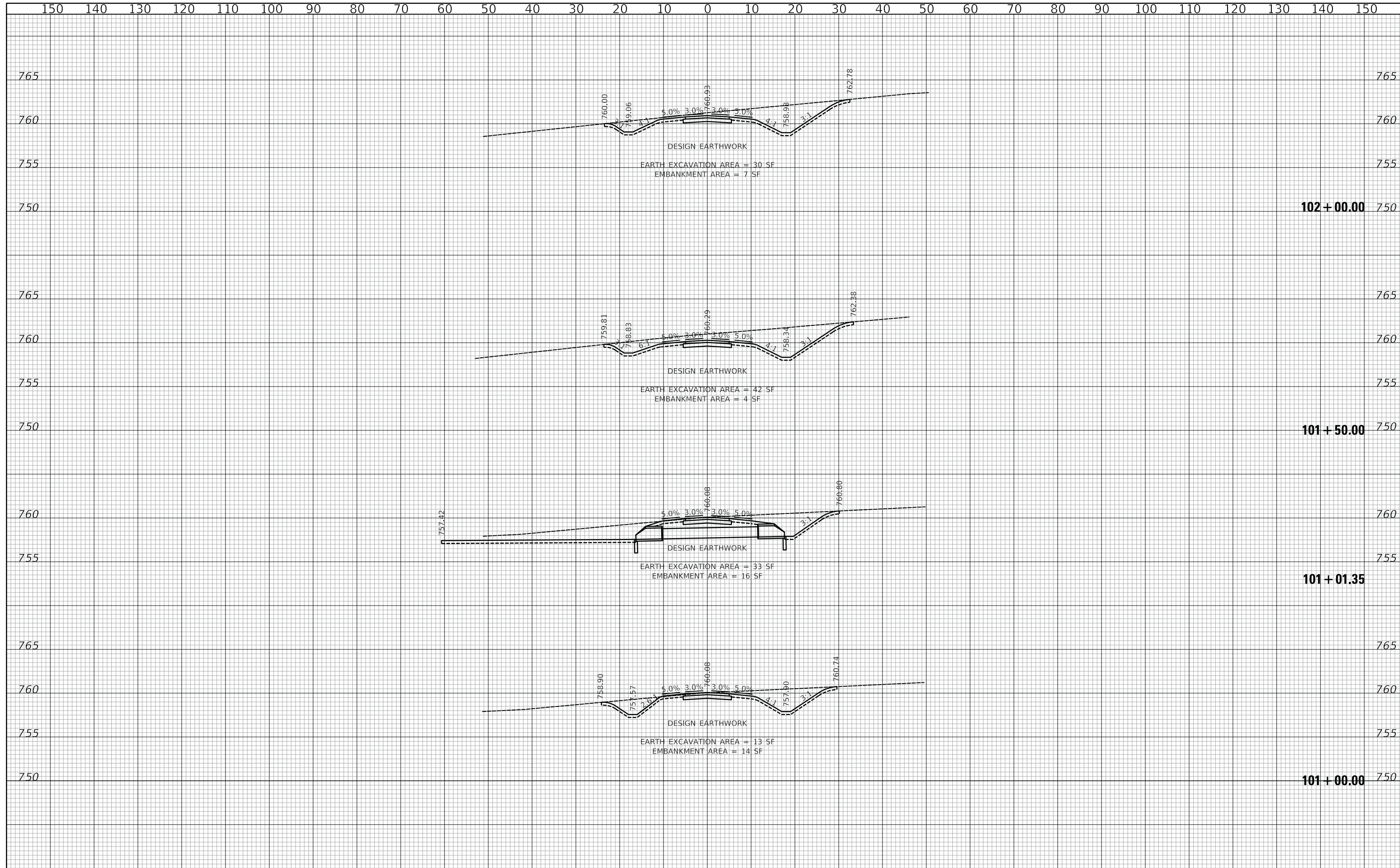
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 1 OF 27 SHEETS STA. 99+99.95 TO STA. 100+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	81
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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SURVEYED	
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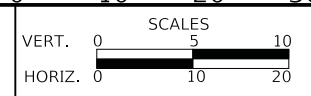
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NOTE BOOK	
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



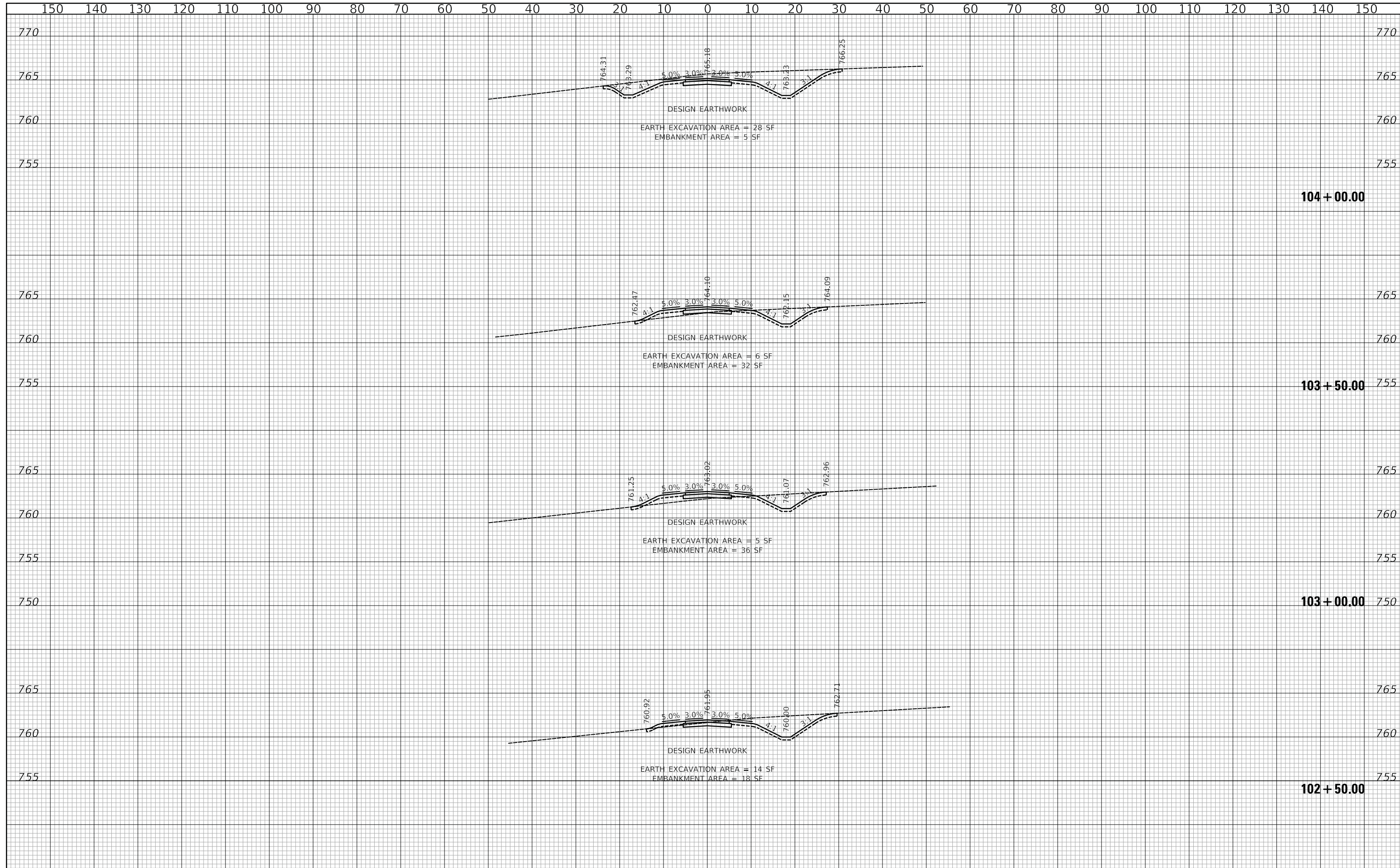
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 2 OF 27 SHEETS STA. 101+00.00 TO STA. 102+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	82
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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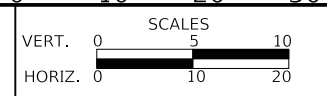
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NOTE BOOK	PLOTTED	BY
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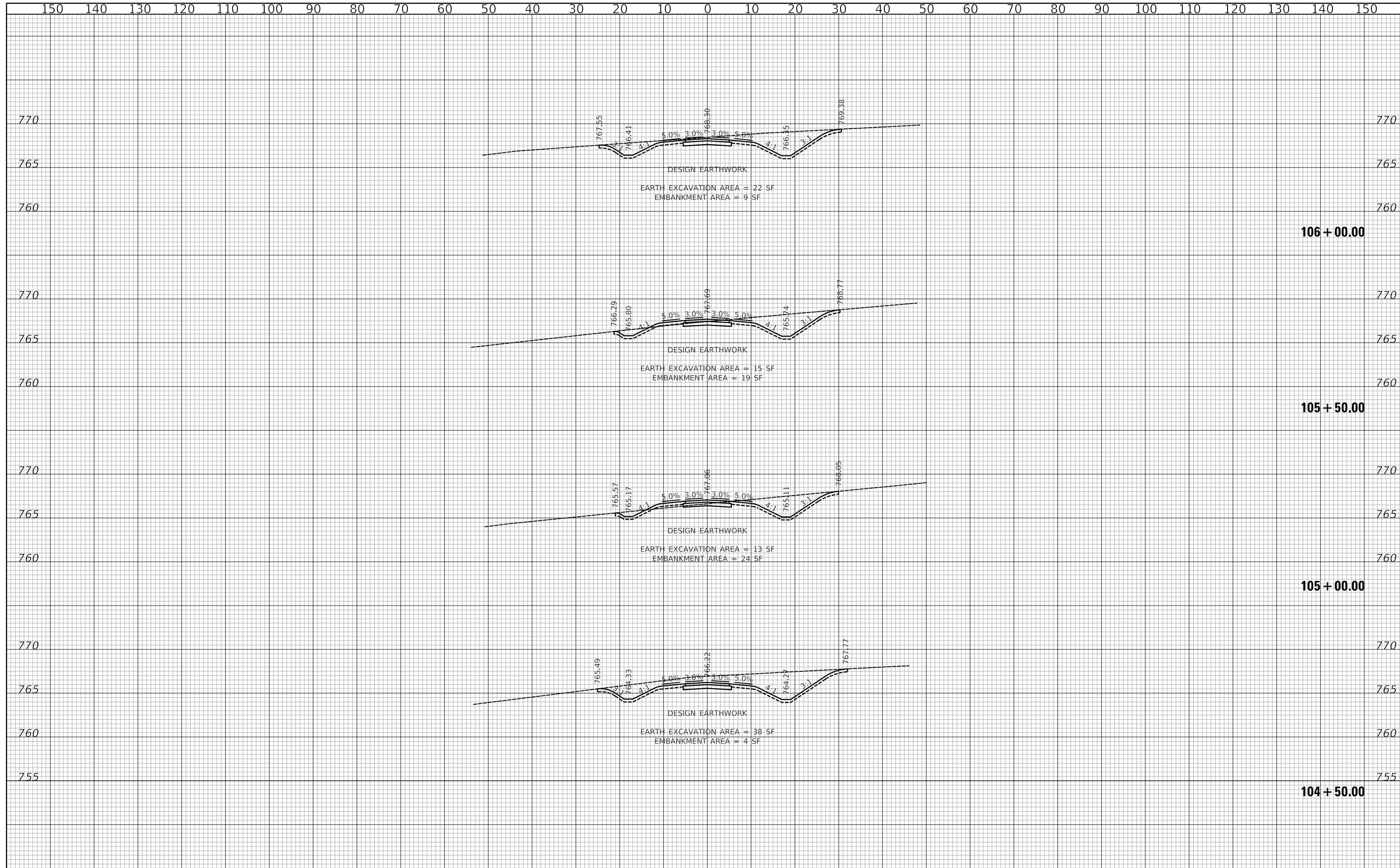
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 3 OF 27 SHEETS STA. 102+50.00 TO STA. 104+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	83
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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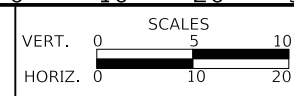
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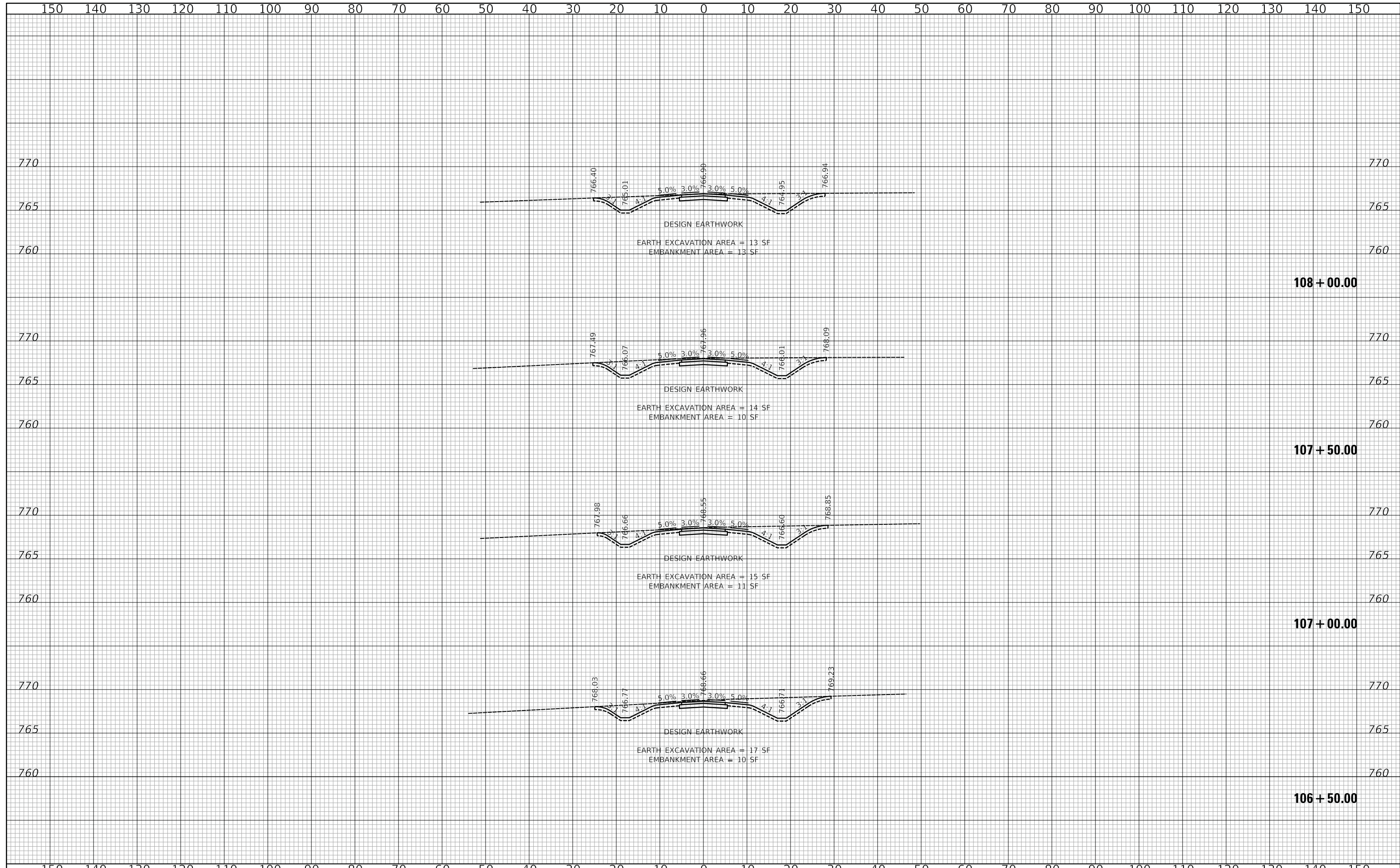
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 4 OF 27 SHEETS STA. 104+50.00 TO STA. 106+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	84
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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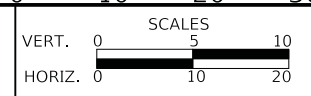
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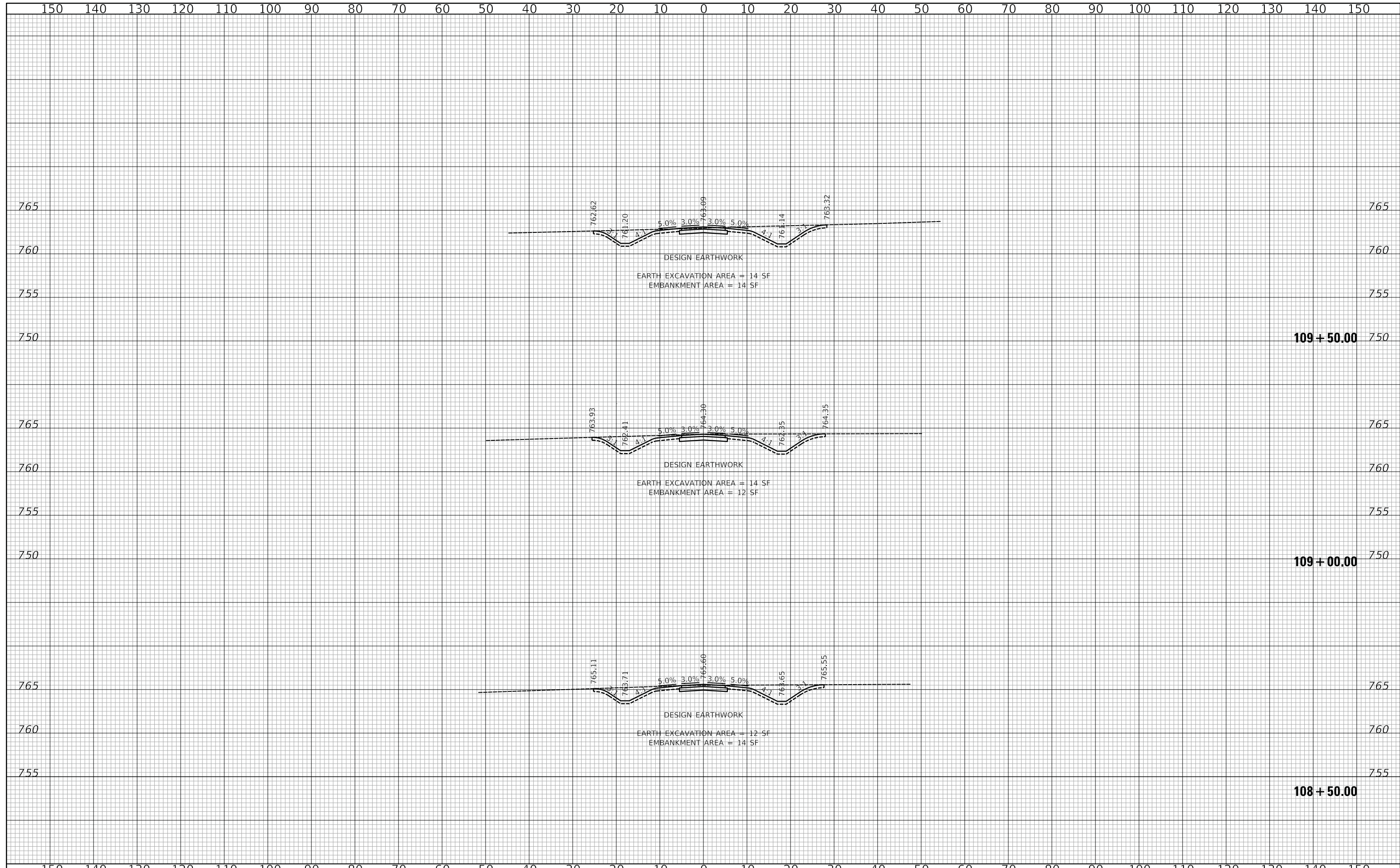
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 5 OF 27 SHEETS STA. 106+50.00 TO STA. 108+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	85
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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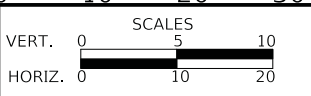
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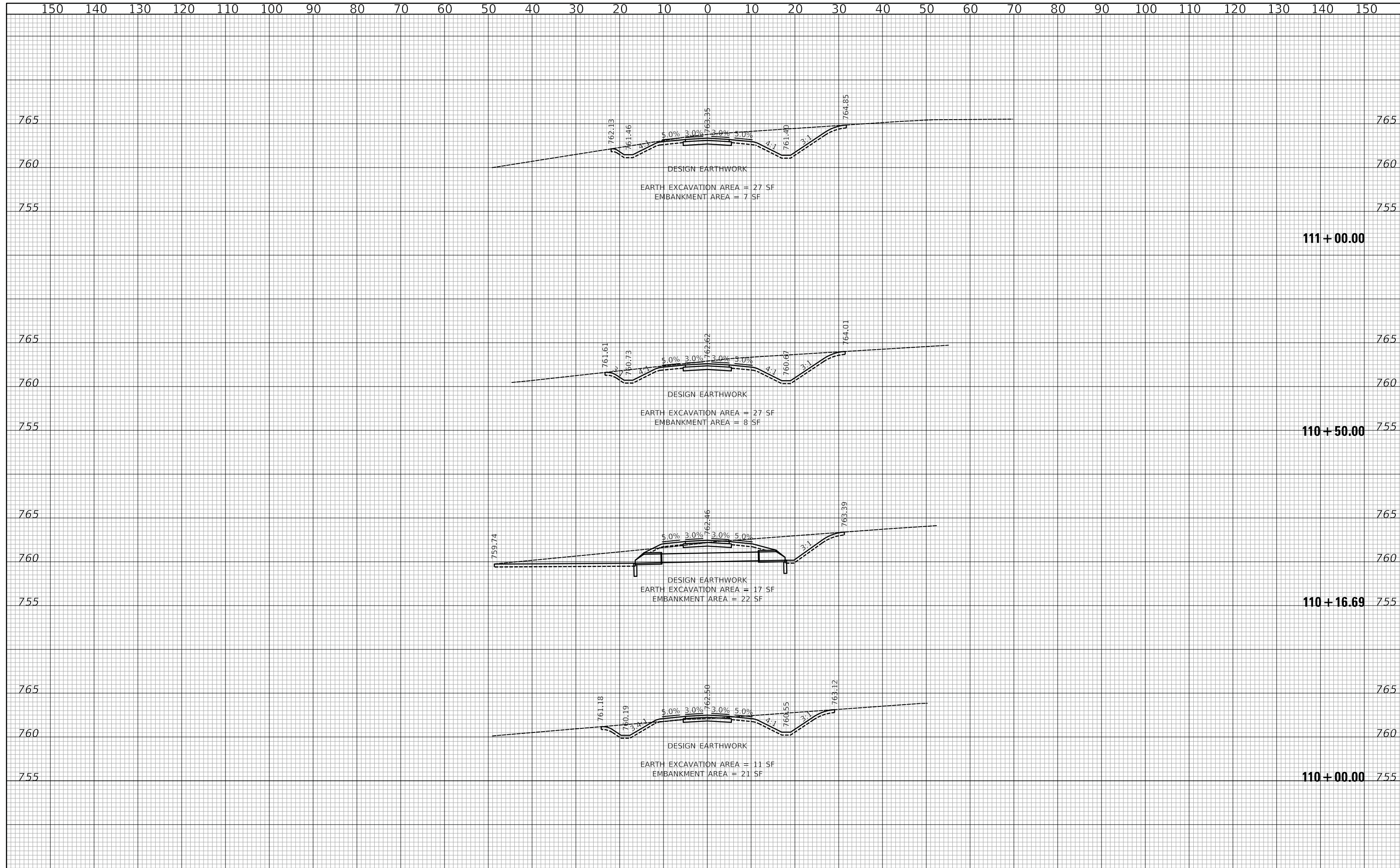
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 6 OF 27 SHEETS STA. 108+50.00 TO STA. 109+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	86
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
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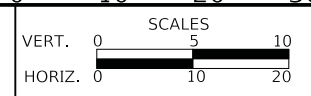
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NOTE BOOK NO.	PLOTTED	BY
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



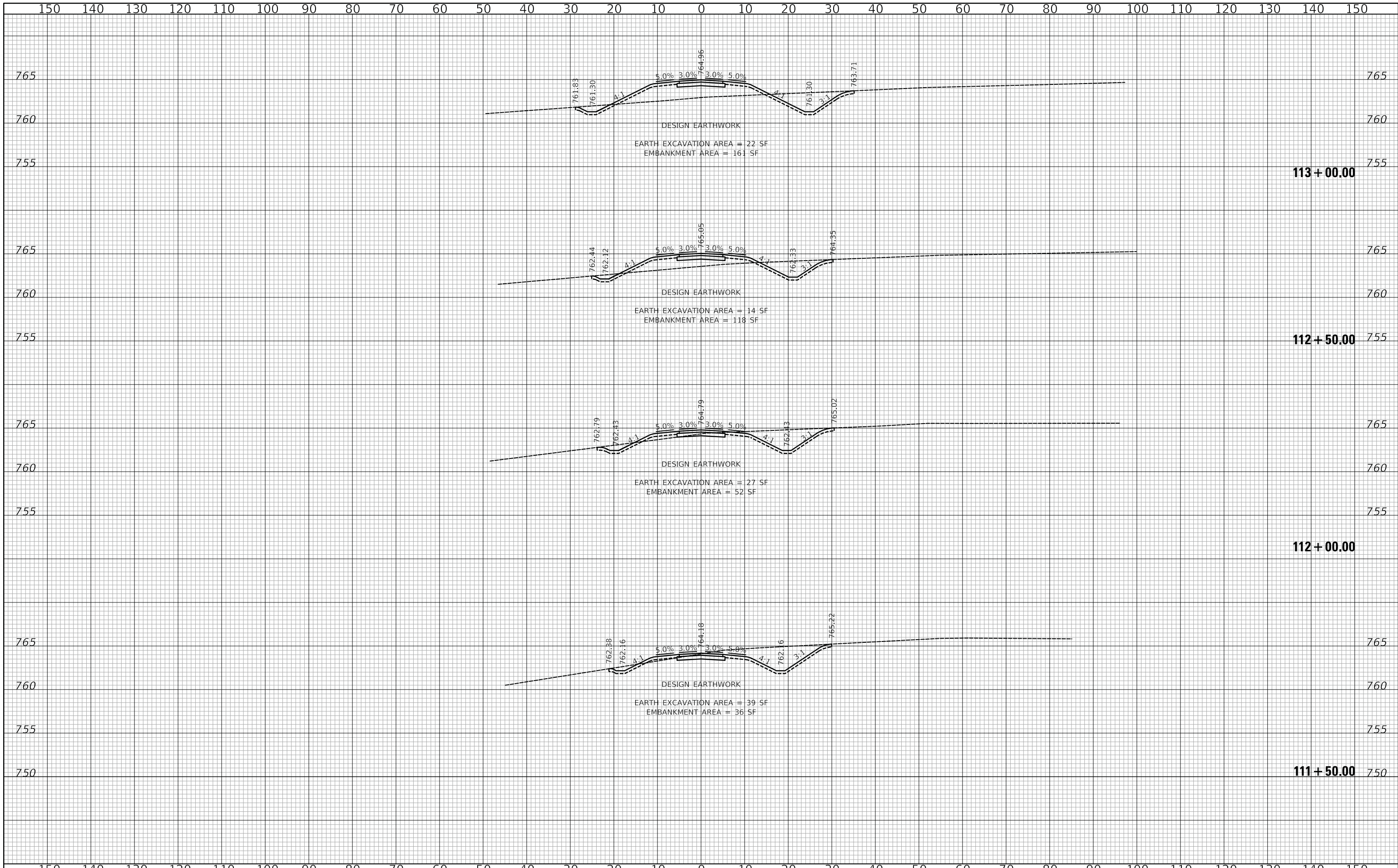
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 7 OF 27 SHEETS STA. 110+00.00 TO STA. 111+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	87
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
NOTE BOOK	
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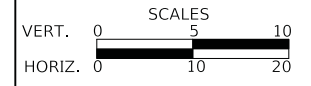
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

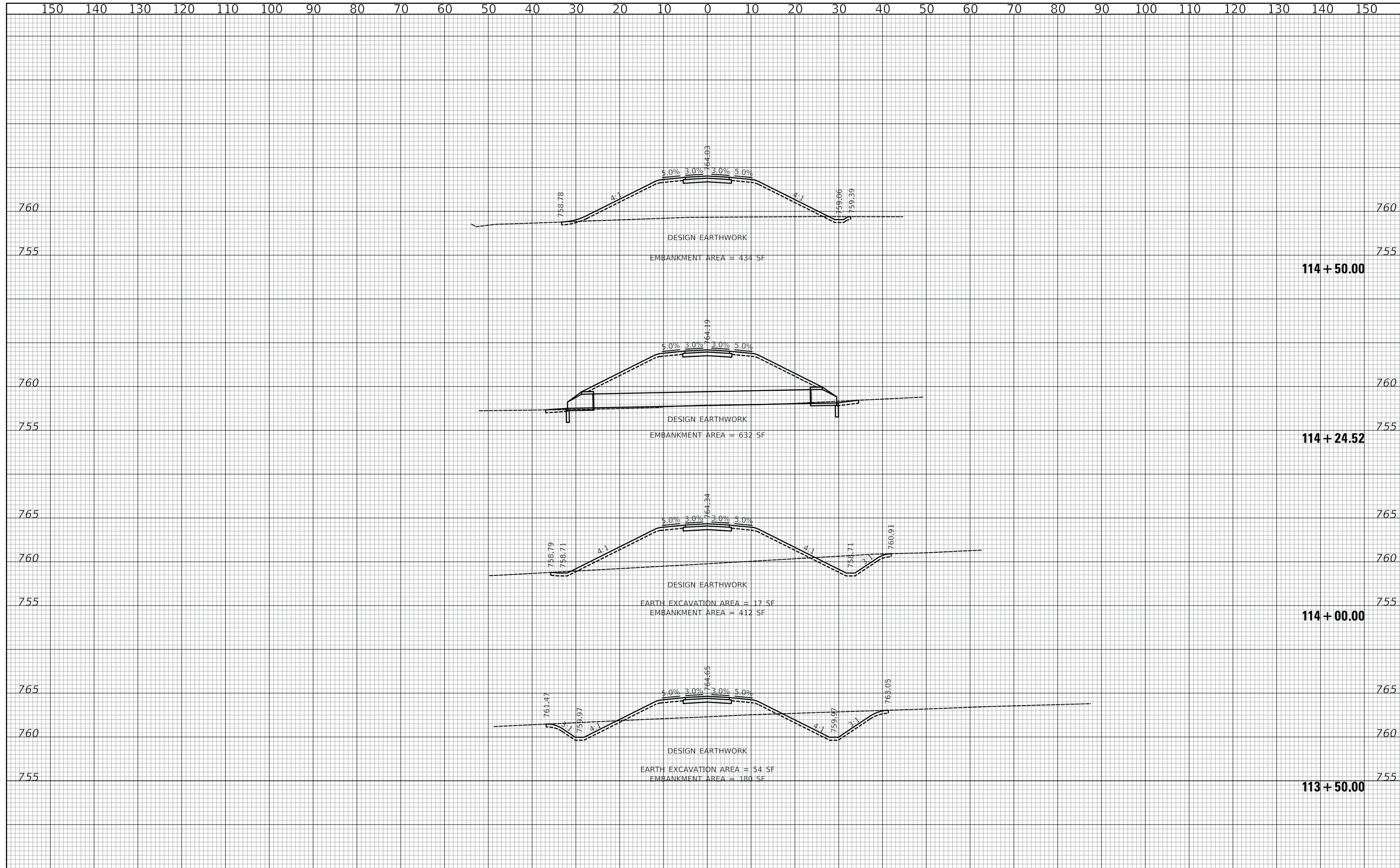
SHEET 8 OF 27 SHEETS STA. 111+50.00 TO STA. 113+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	88
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



DATE	
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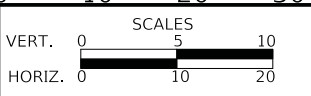
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CHECKED - JRV	REVISED -
DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



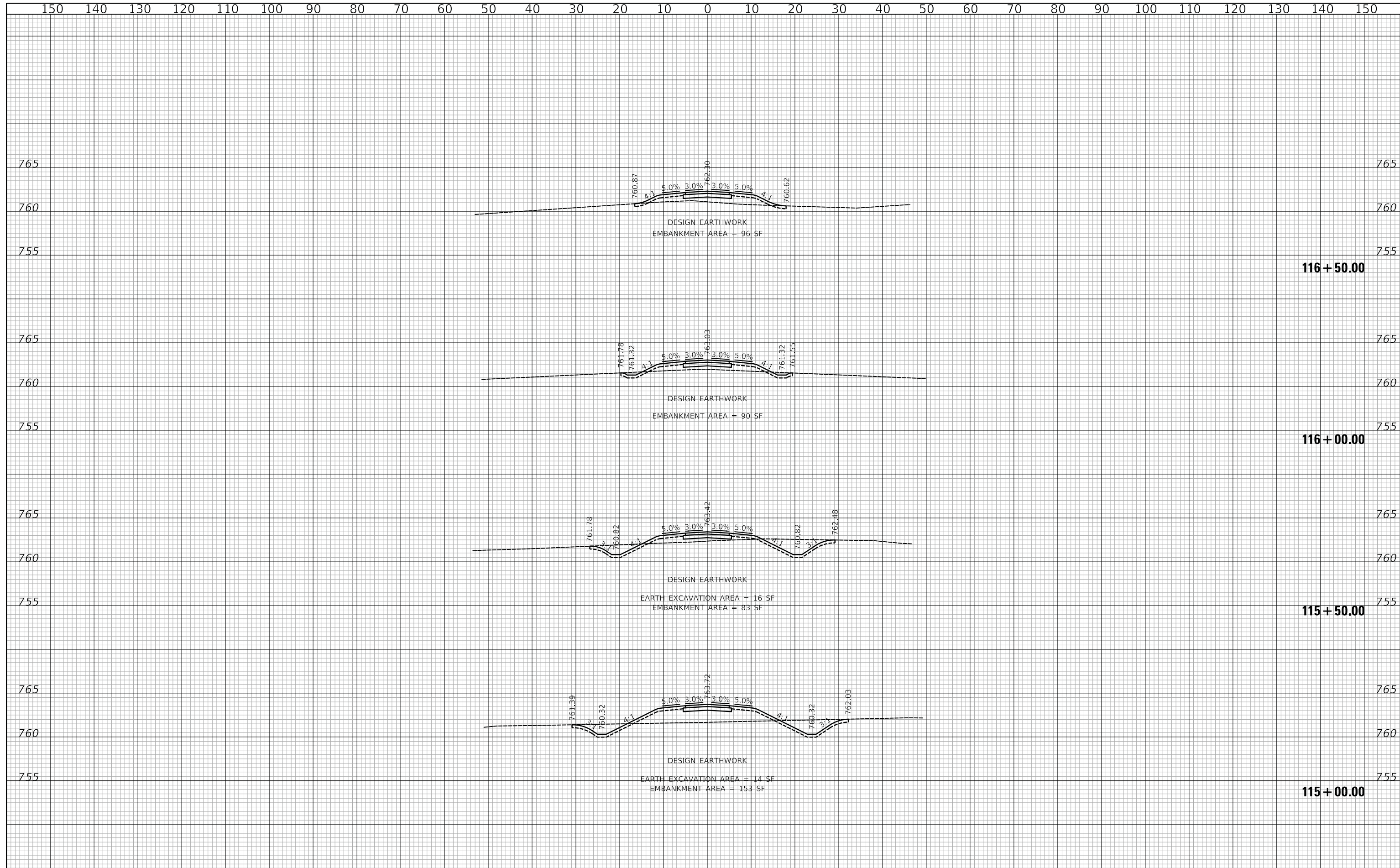
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 9 OF 27 SHEETS STA. 113+50.00 TO STA. 114+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	89
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

DATE	
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NOTE BOOK	
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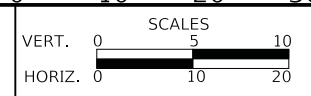
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



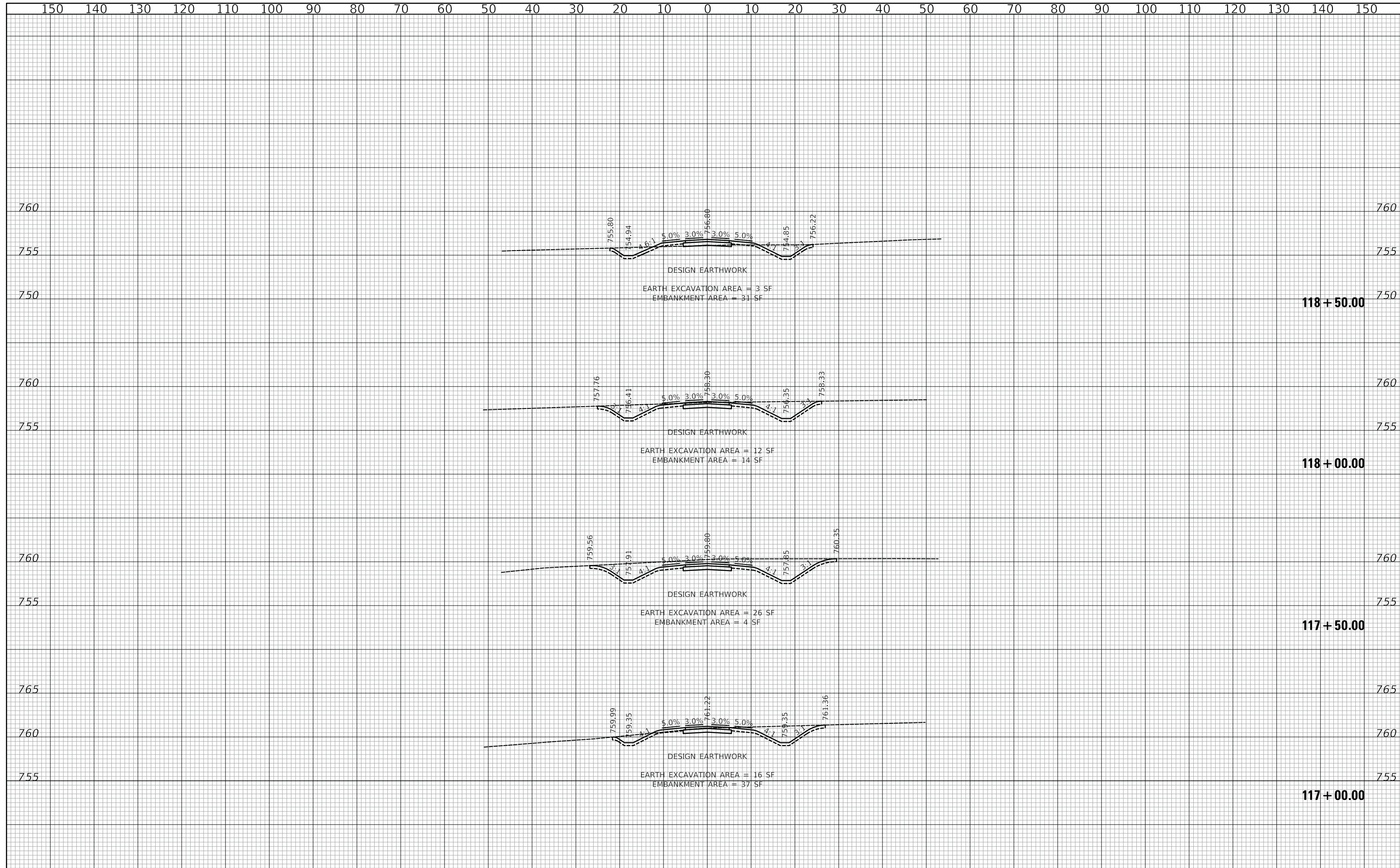
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 10 OF 27 SHEETS STA. 115+00.00 TO STA. 116+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	90
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

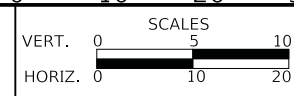
ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	AREAS		
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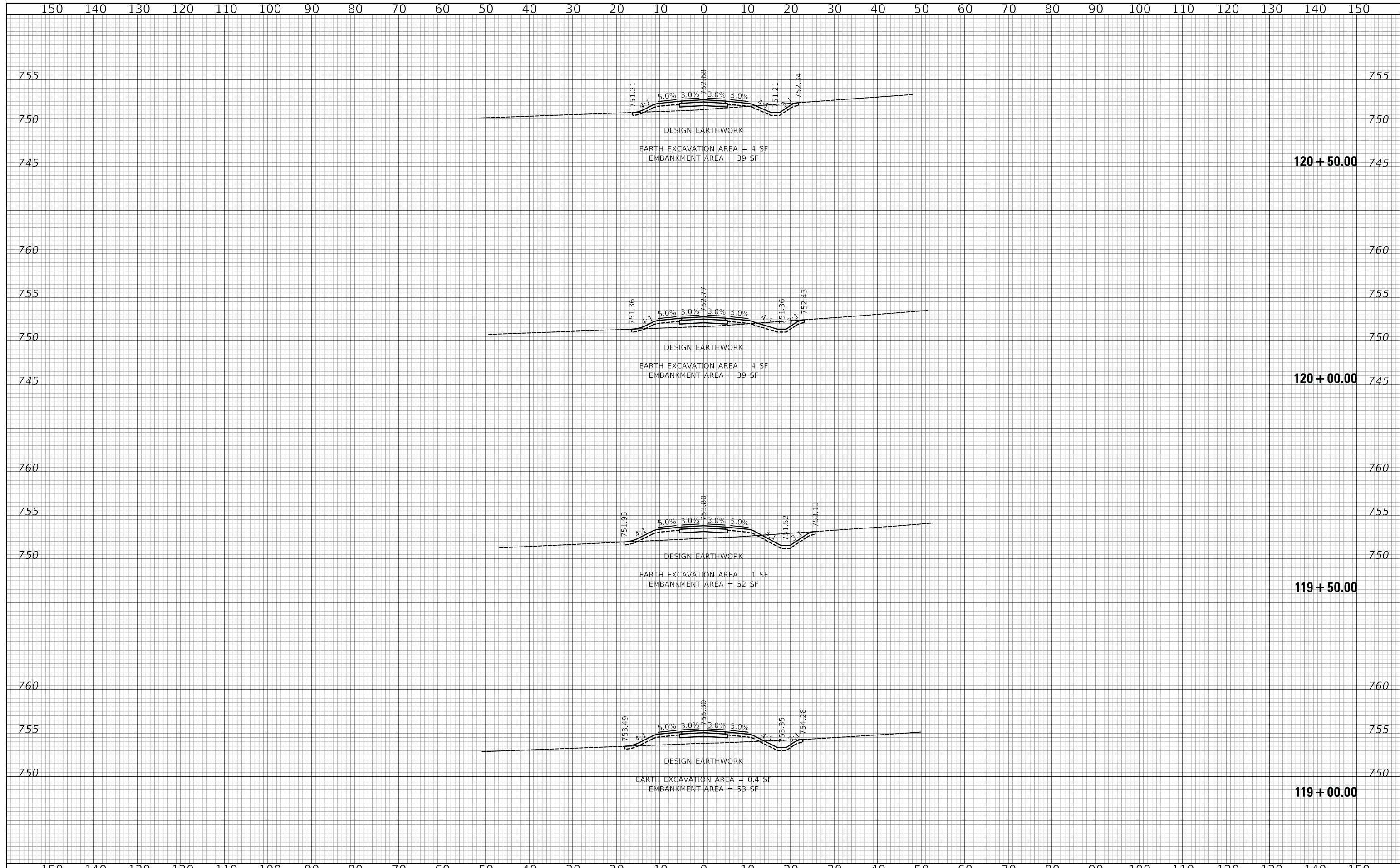
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 11 OF 27 SHEETS STA. 117+00.00 TO STA. 118+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	91
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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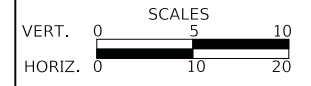
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ORIGINAL SURVEY	
NOTE BOOK	
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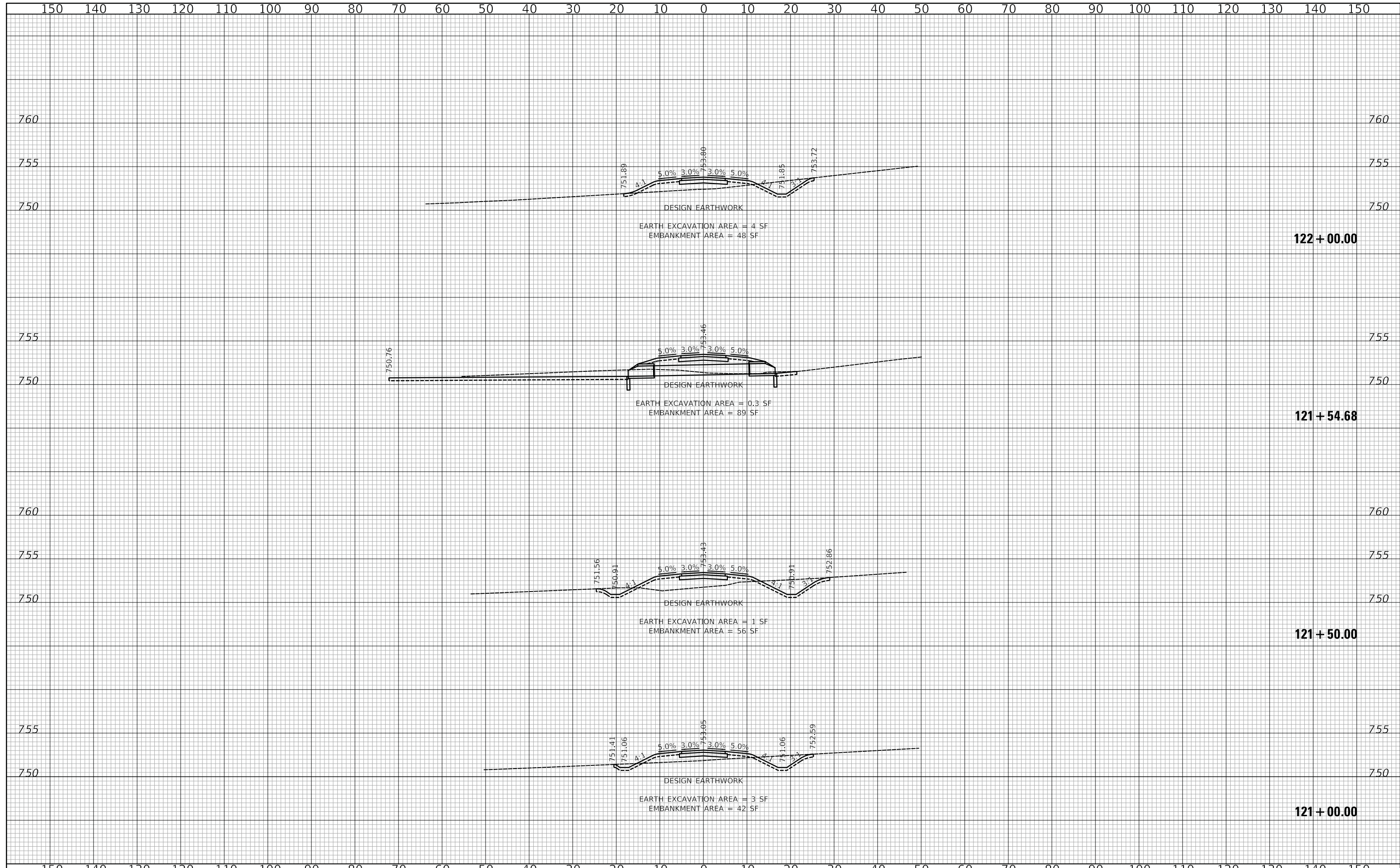
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 12 OF 27 SHEETS STA. 119+00.00 TO STA. 120+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	92
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G65	

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NOTE BOOK	
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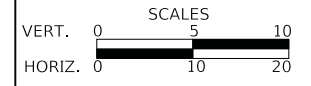
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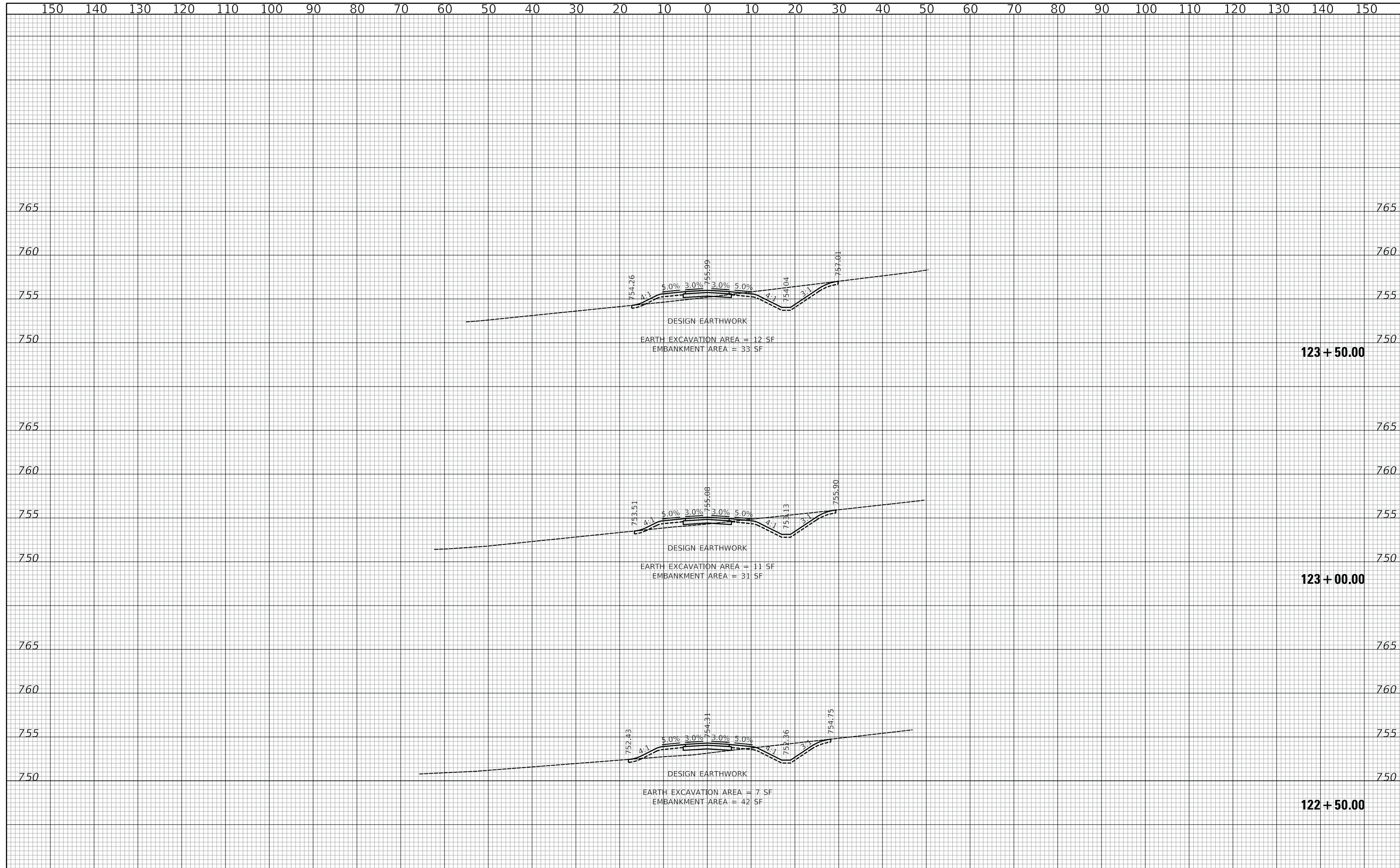
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 13 OF 27 SHEETS STA. 121+00.00 TO STA. 122+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	93
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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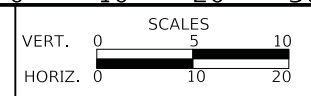
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS	
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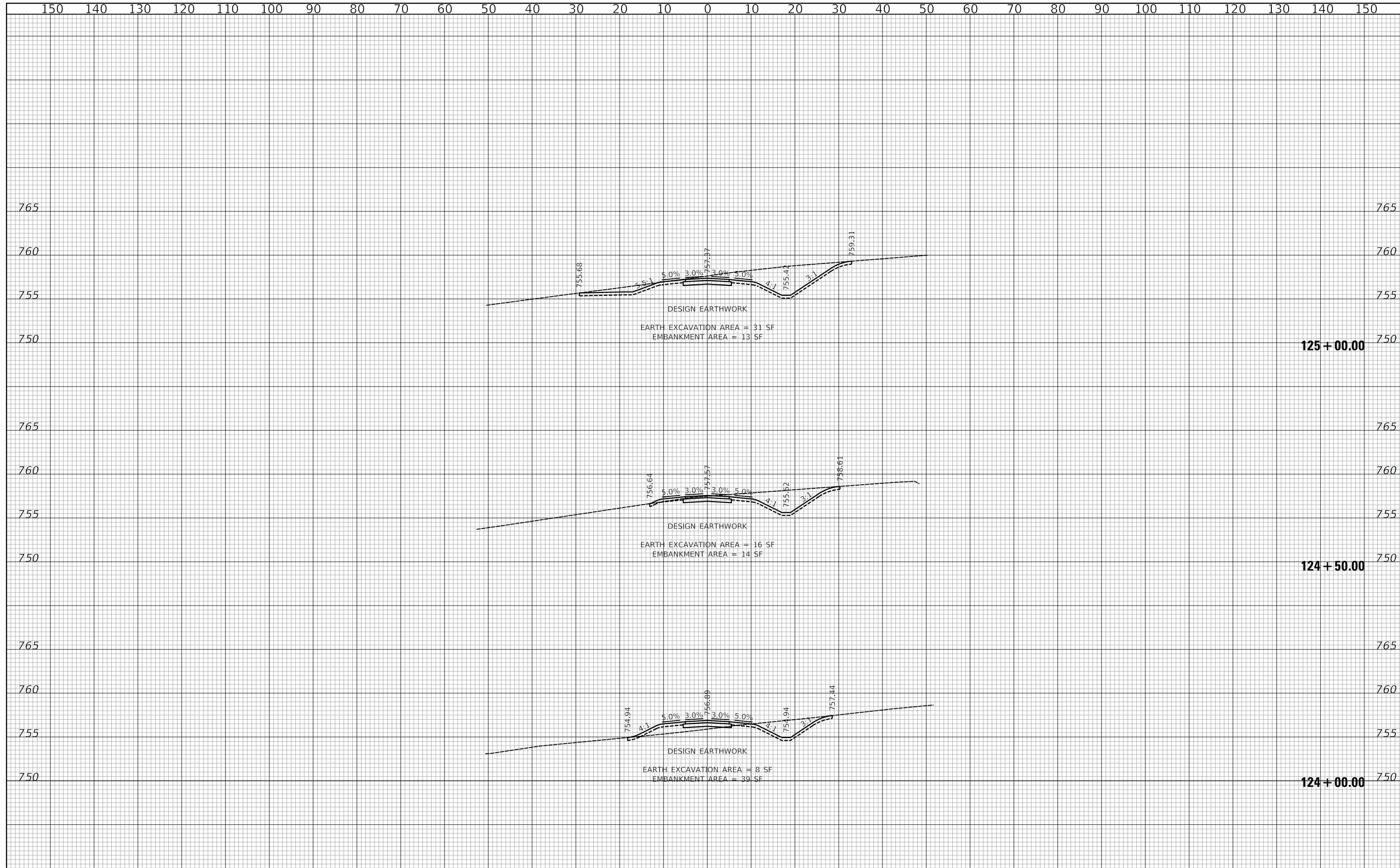
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 14 OF 27 SHEETS STA. 122+50.00 TO STA. 123+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	94
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
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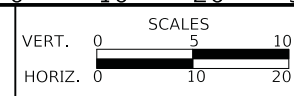
ORIGINAL SURVEY NO.	SURVEYED	DATE
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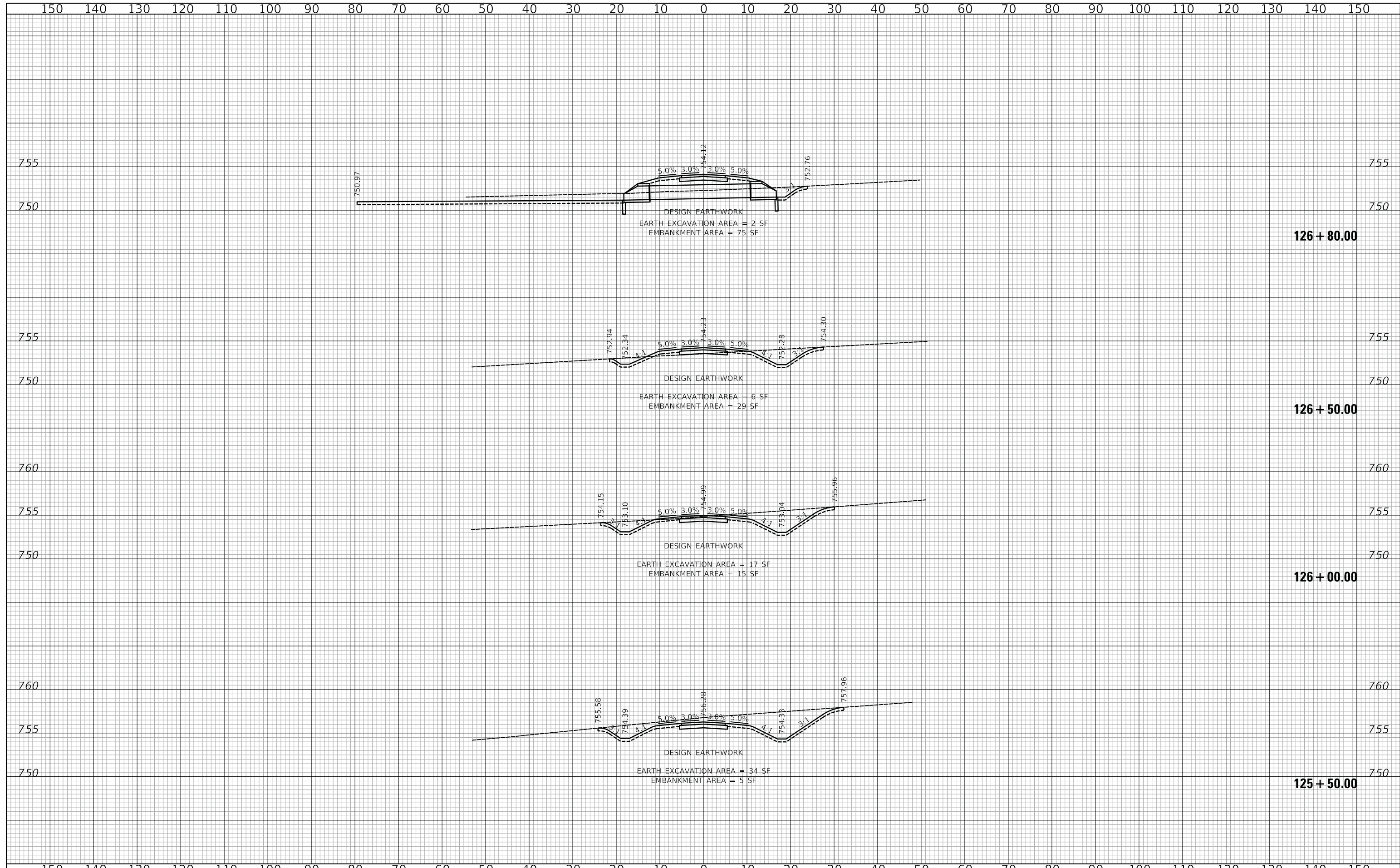
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	95
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SHEET 15 OF 27 SHEETS STA. 124+00.00 TO STA. 125+00.00

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FINAL SURVEY	
NOTE BOOK	
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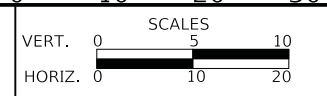
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ORIGINAL SURVEY	
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**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

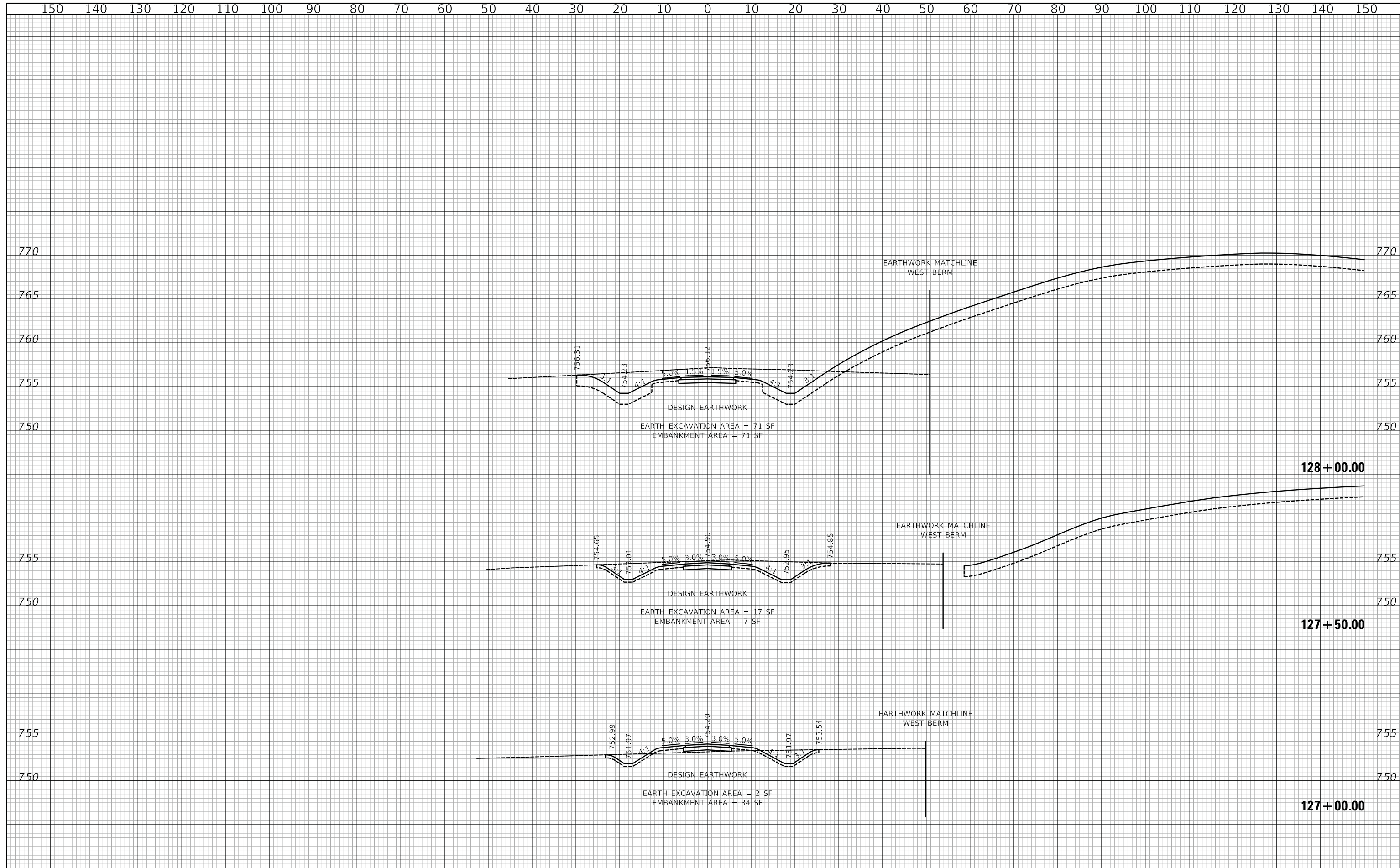
SHEET 16 OF 27 SHEETS STA. 125+50.00 TO STA. 126+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	96
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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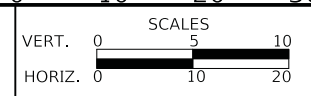
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
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	AREAS CHECKED	



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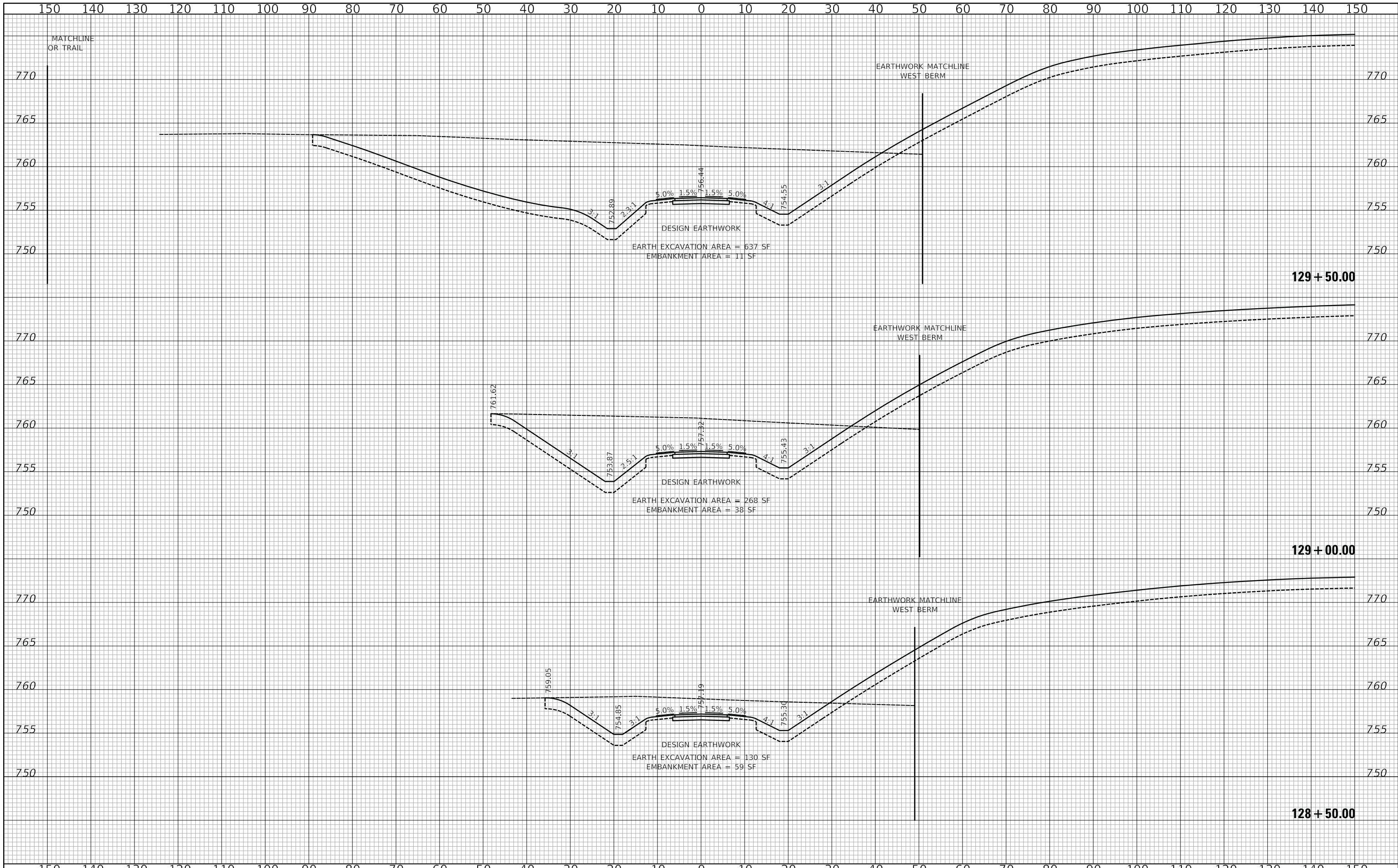
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**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 17 OF 27 SHEETS STA. 127+00.00 TO STA. 128+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	97
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

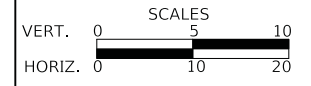
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ORIGINAL SURVEY NO.	NOTE BOOK NO.					



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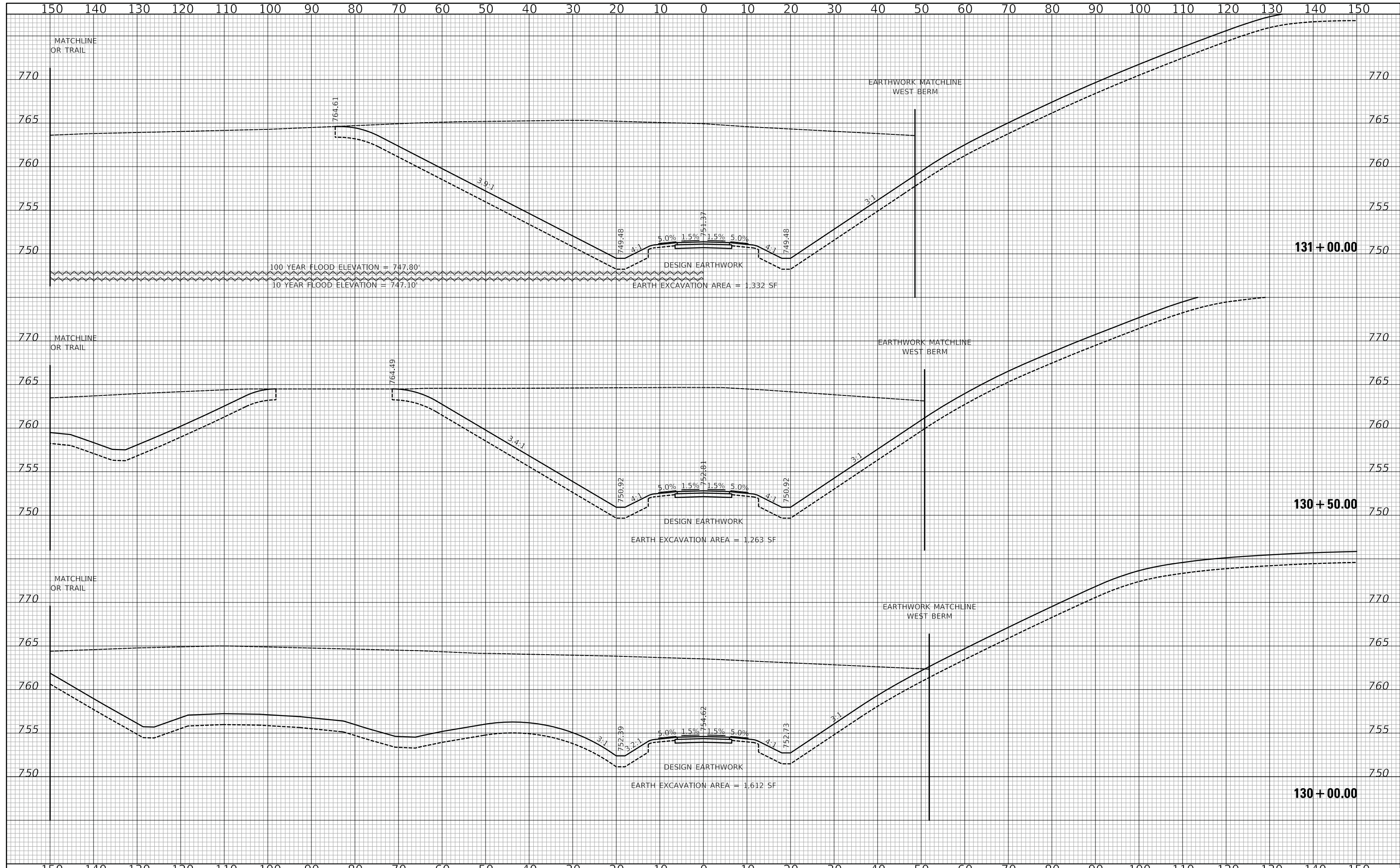


**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	98
CONTRACT NO. 61G65				
SHEET 18 OF 27 SHEETS STA. 128+50.00 TO STA. 129+50.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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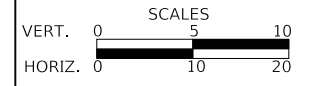
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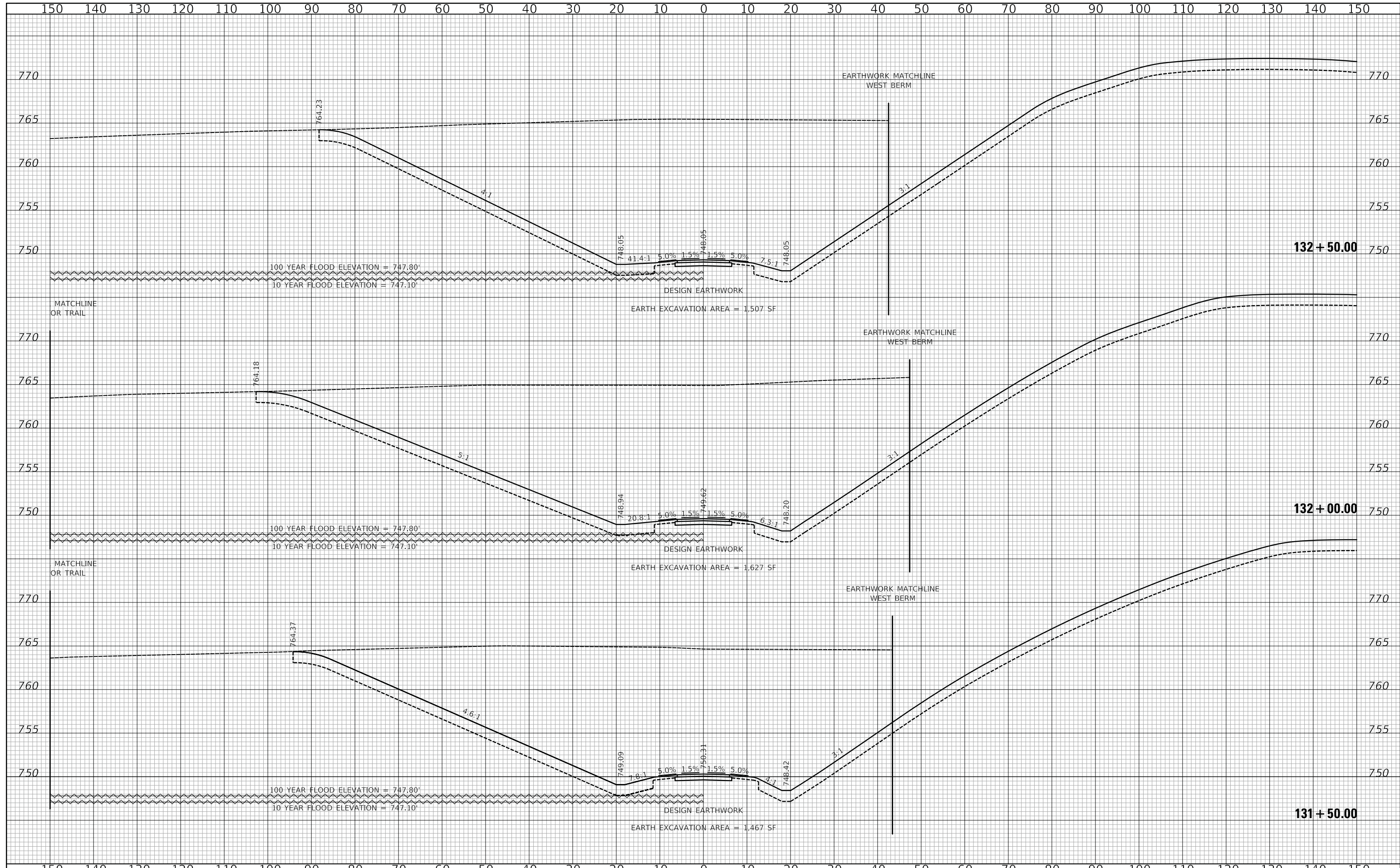
US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CROSS SECTIONS - MILLENNIUM TRAIL

SHEET 19 OF 27 SHEETS STA. 130+00.00 TO STA. 131+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	99
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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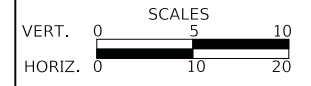
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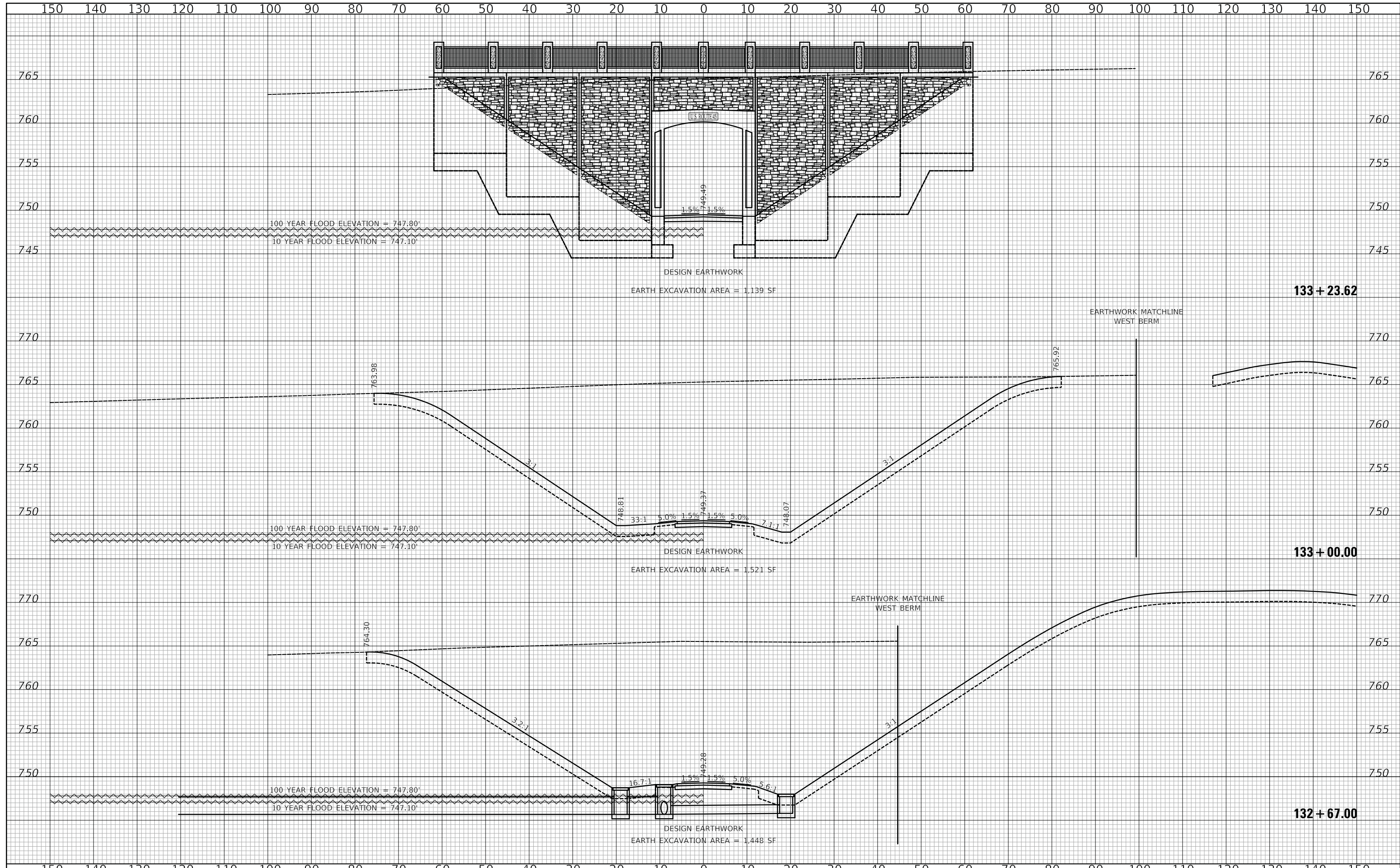
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 20 OF 27 SHEETS STA. 131+50.00 TO STA. 132+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	100
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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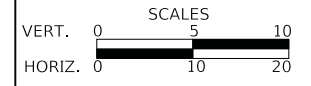
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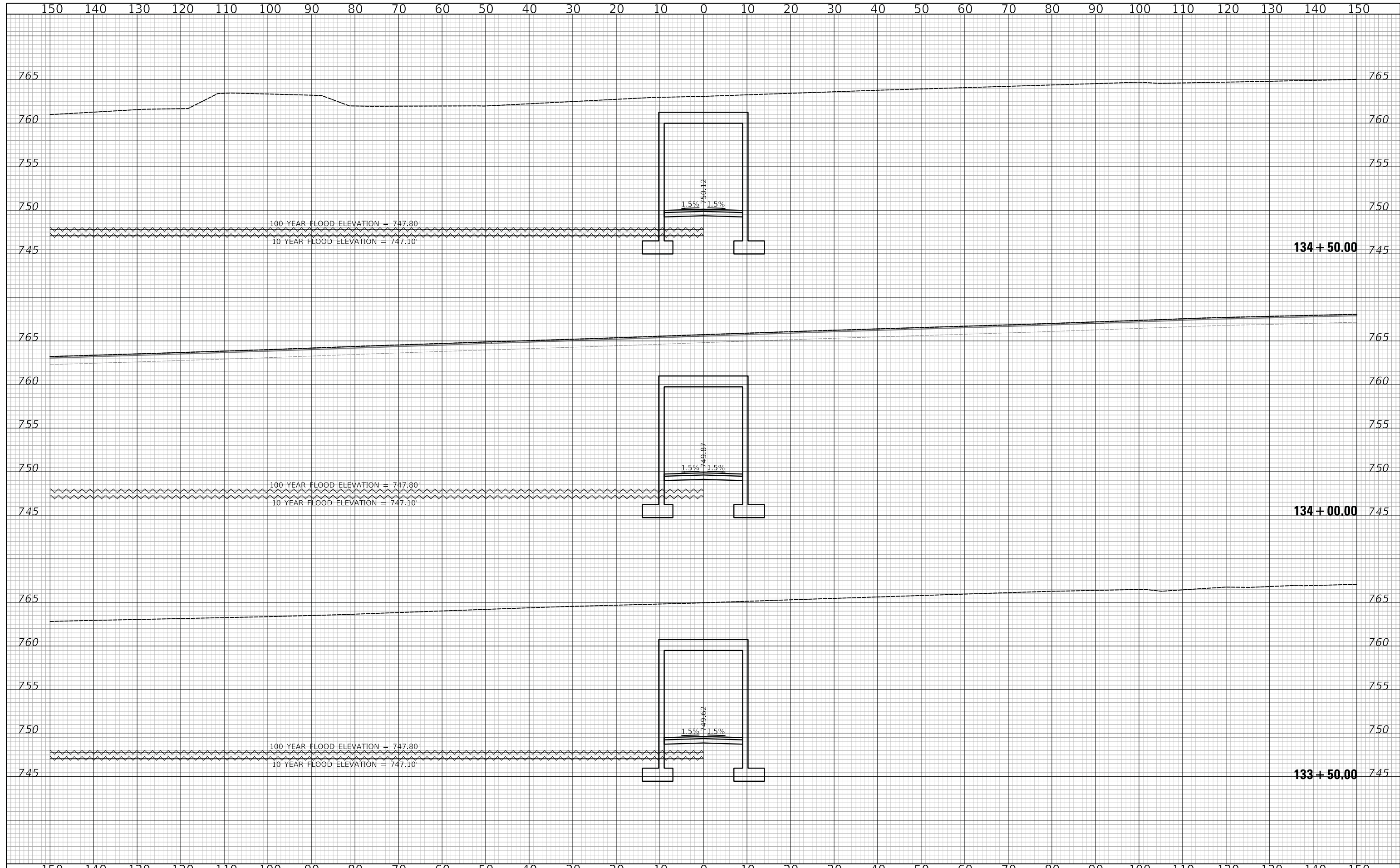
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 21 OF 27 SHEETS STA. 132+67.00 TO STA. 133+23.62

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	101
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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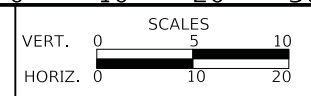
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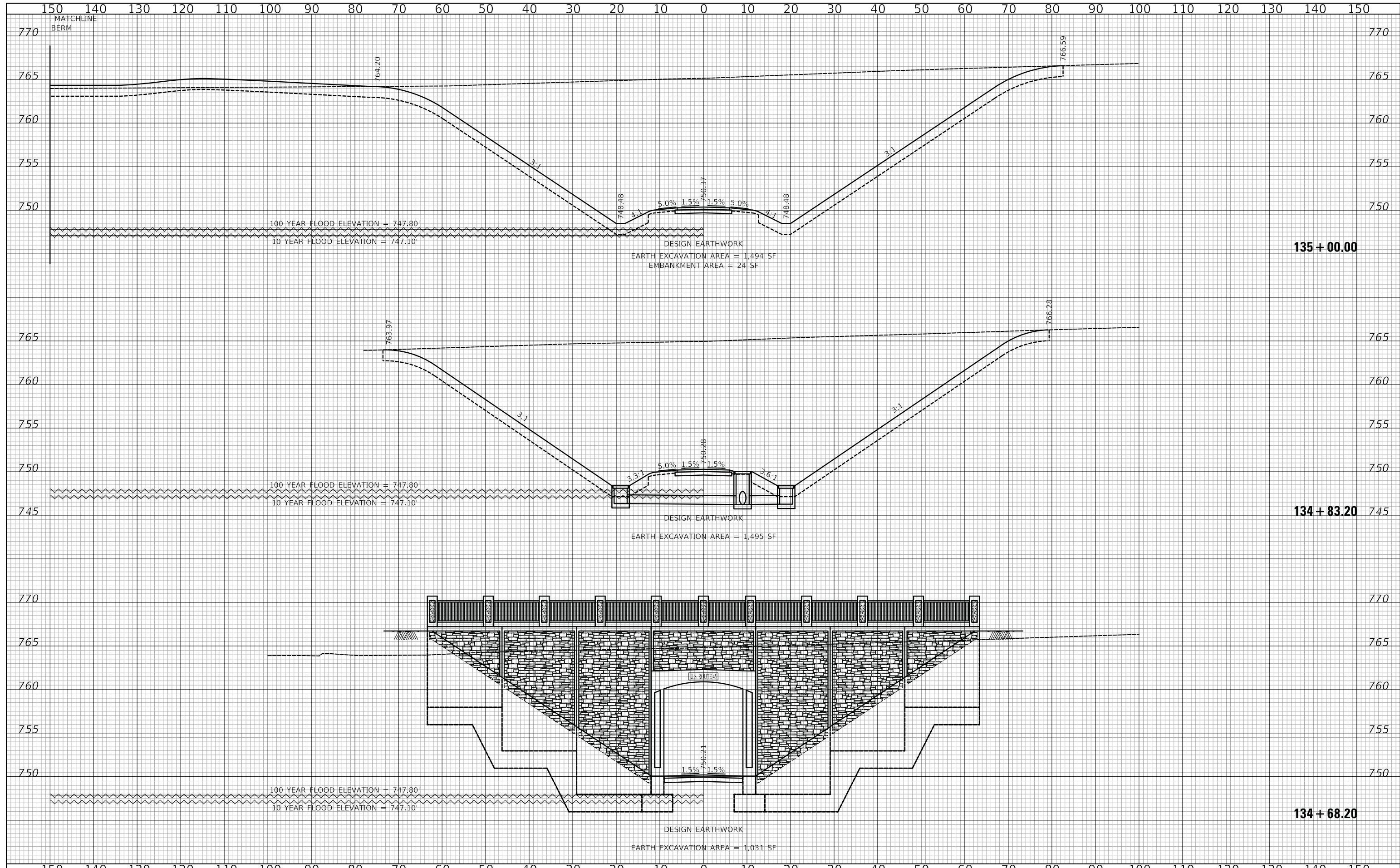
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 22 OF 27 SHEETS STA. 133+50.00 TO STA. 134+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	102
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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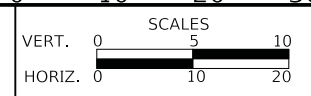
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ORIGINAL SURVEY	
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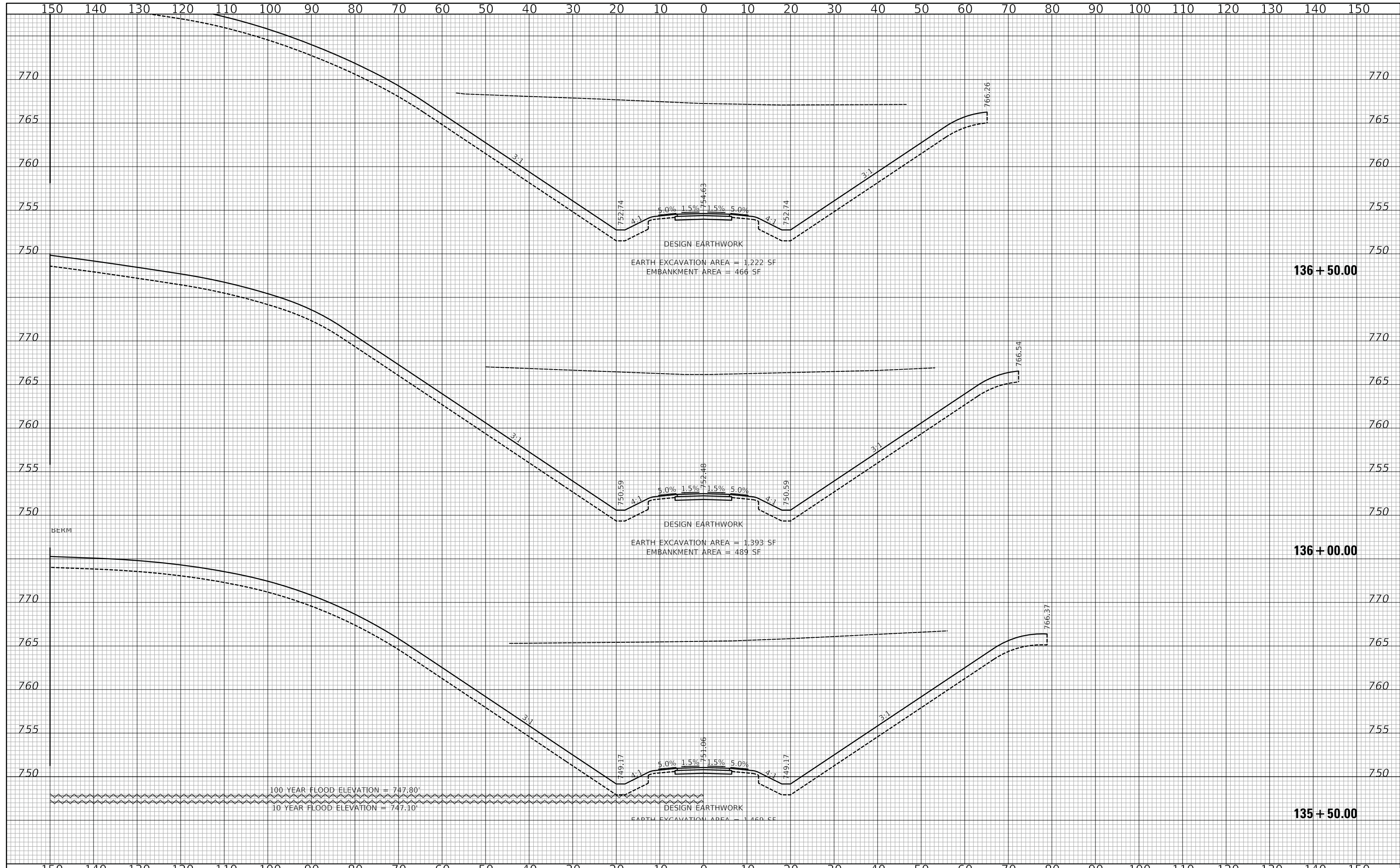
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 23 OF 27 SHEETS STA. 134+68.20 TO STA. 135+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	103
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1				ILLINOIS FED. AID PROJECT

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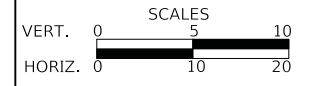
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ORIGINAL SURVEY	
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**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - MILLENNIUM TRAIL**

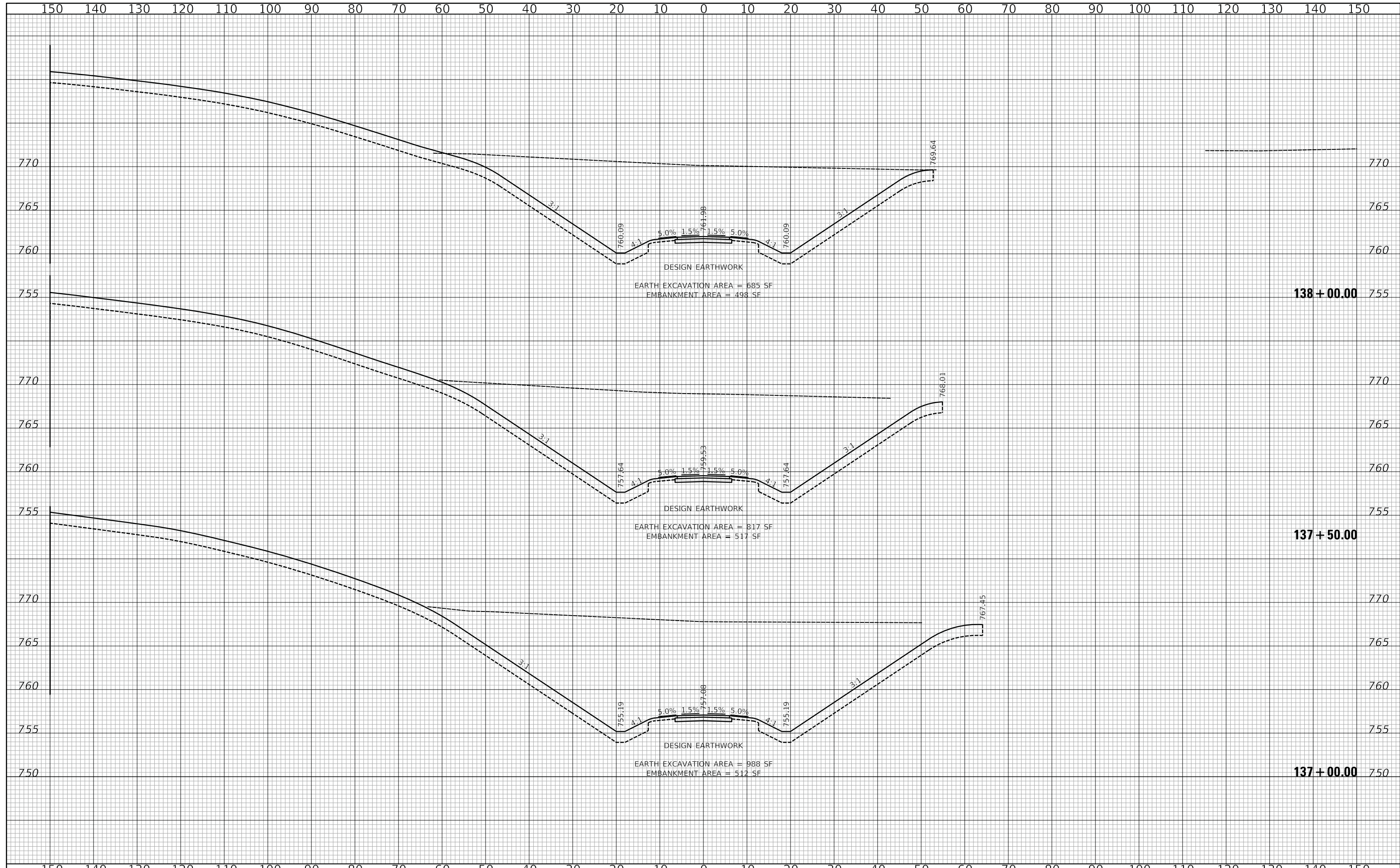
SHEET 24 OF 27 SHEETS STA. 135+50.00 TO STA. 136+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	104
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



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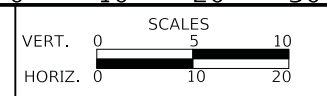
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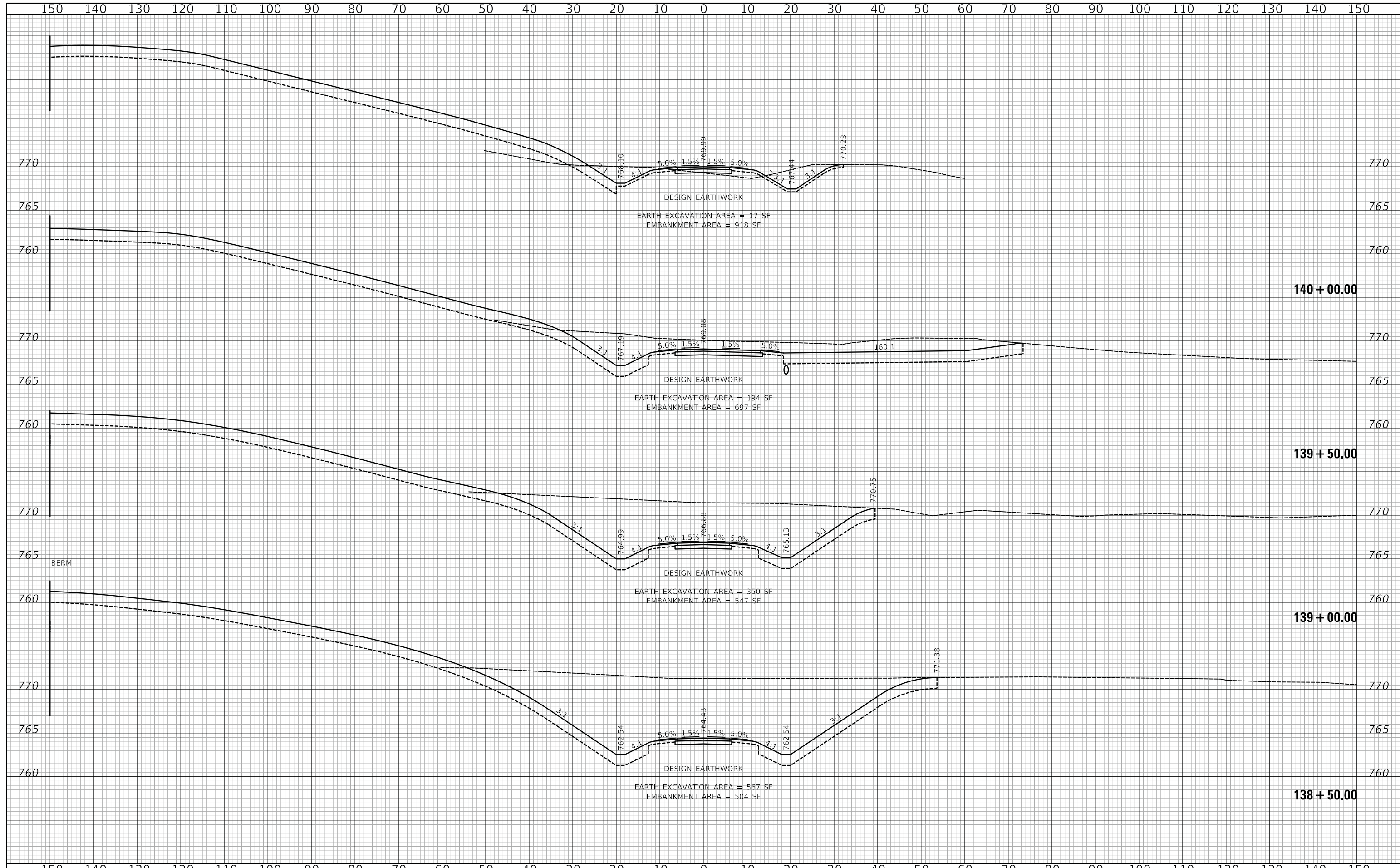
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 25 OF 27 SHEETS STA. 137+00.00 TO STA. 138+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	105
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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

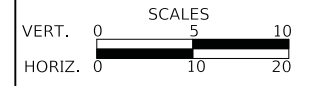
DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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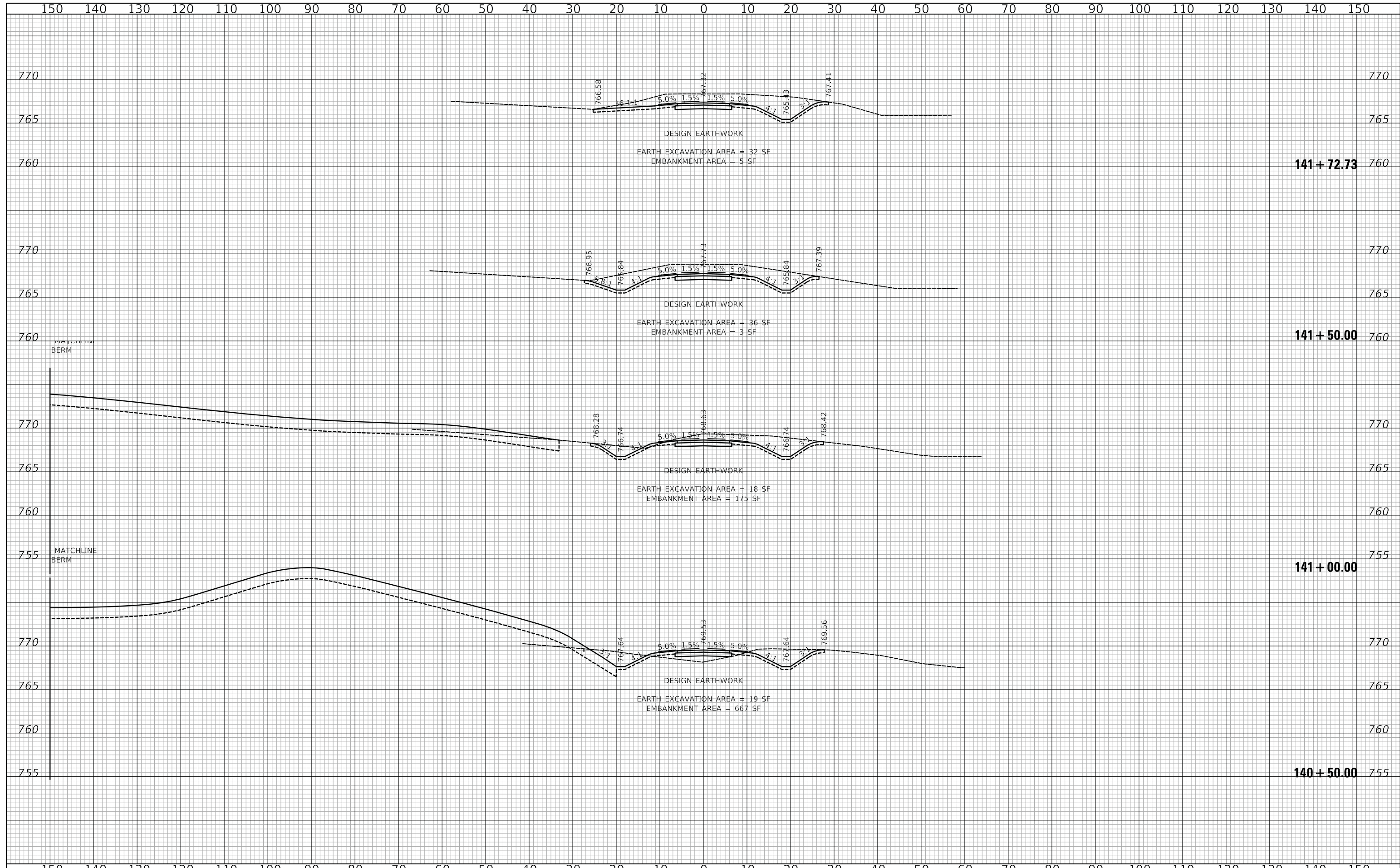
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 26 OF 27 SHEETS STA. 138+50.00 TO STA. 140+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	106
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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

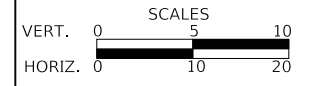
DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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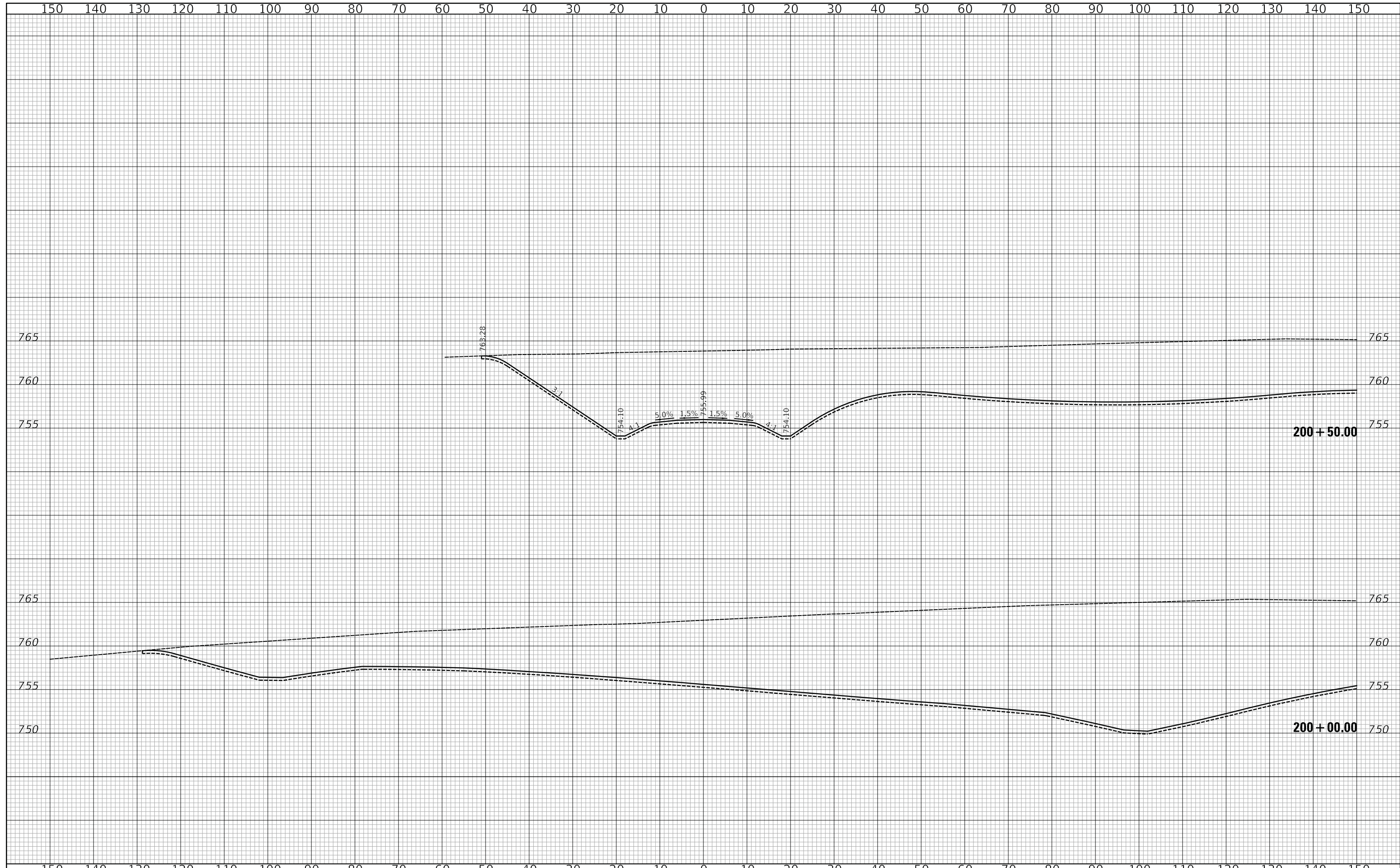
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - MILLENNIUM TRAIL**

SHEET 27 OF 27 SHEETS STA. 140+50.00 TO STA. 141+72.73

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	107
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



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VERT.	0	5	10
HORIZ.	0	10	20

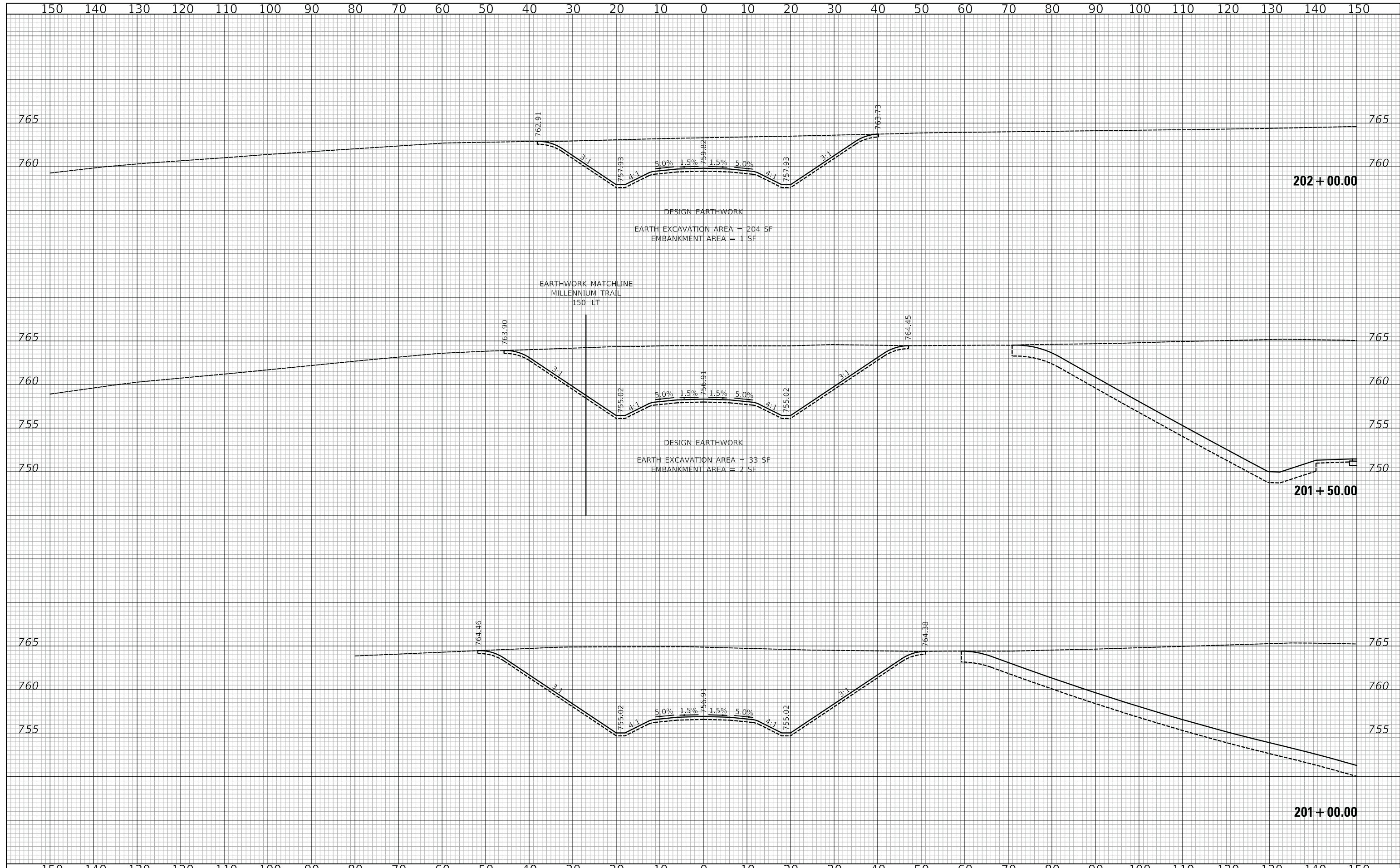
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CROSS SECTIONS - CONNECTOR TRAIL**

SHEET 1 OF 3 SHEETS STA. 200+00 TO STA. 200+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	108
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
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TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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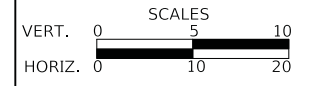
EARTHWORK MATCHLINE  
MILLENNIUM TRAIL  
150' LT



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**STATE OF ILLINOIS  
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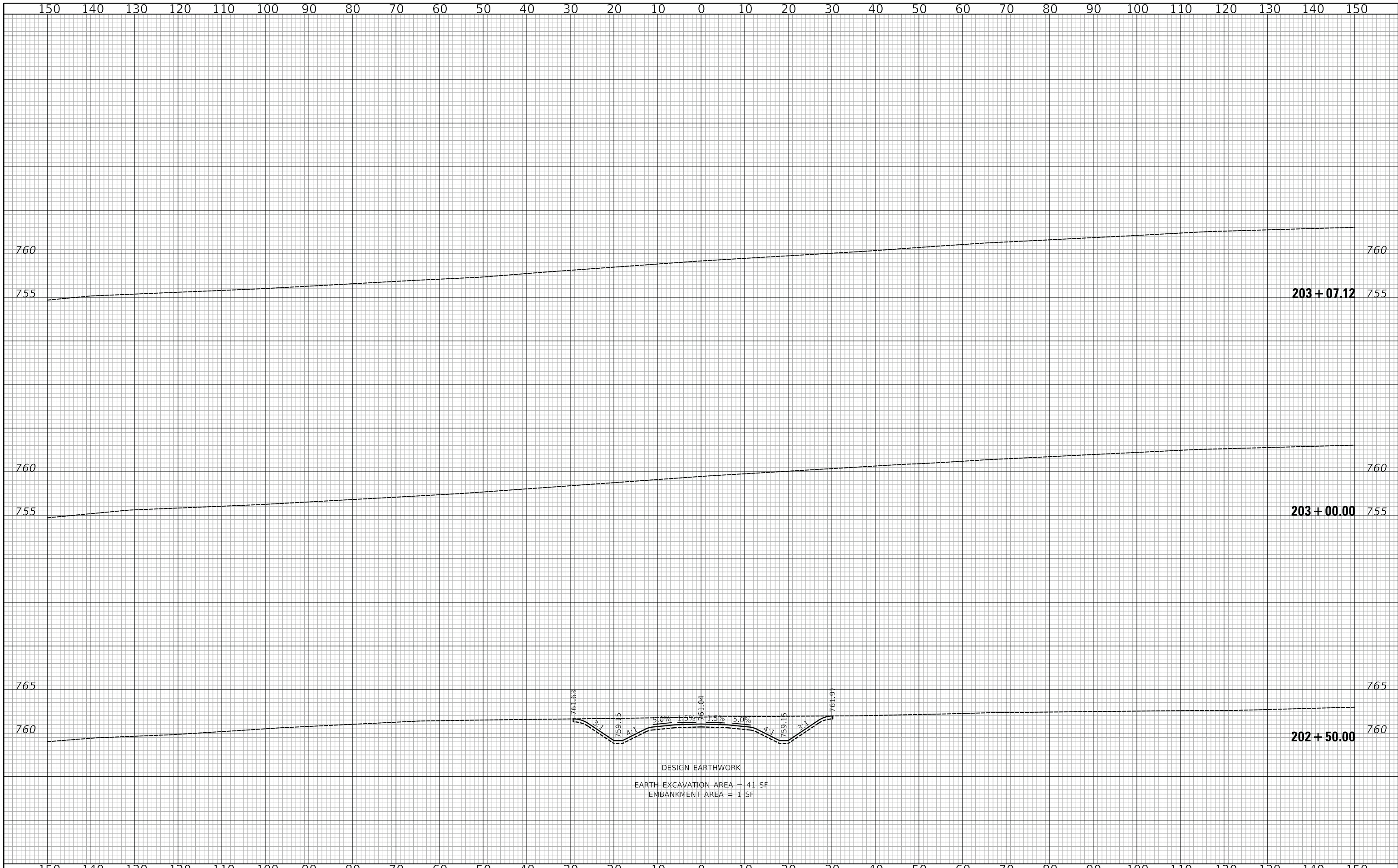
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CROSS SECTIONS - CONNECTOR TRAIL**

SHEET 2 OF 3 SHEETS STA. 201+00 TO STA. 202+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	109
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



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HORIZ. 0	10	20

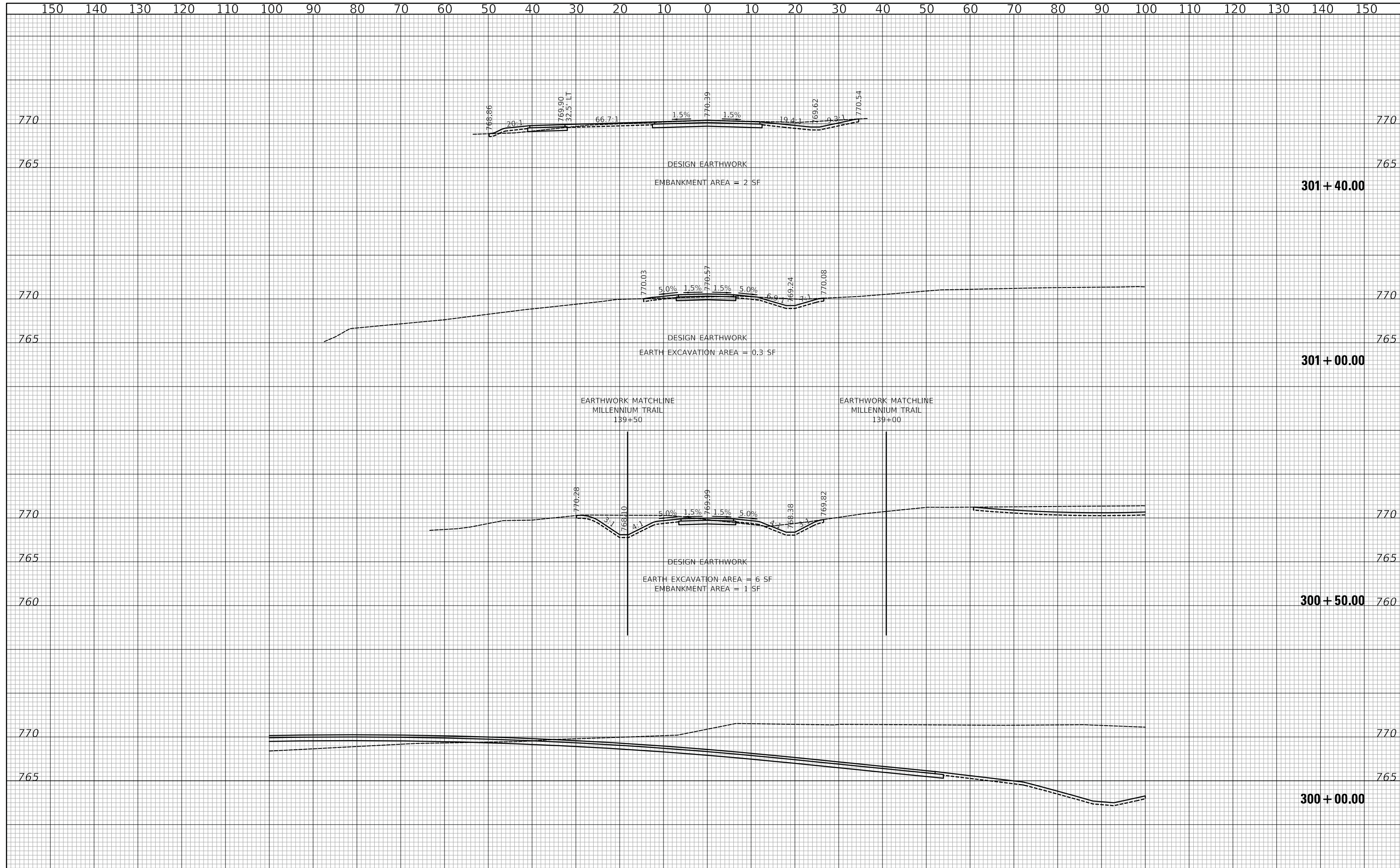
US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CROSS SECTIONS - CONNECTOR TRAIL

SHEET 3 OF 3 SHEETS STA. 202+50 TO STA. 203+07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	110
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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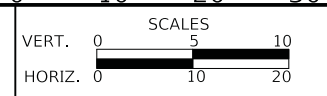
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
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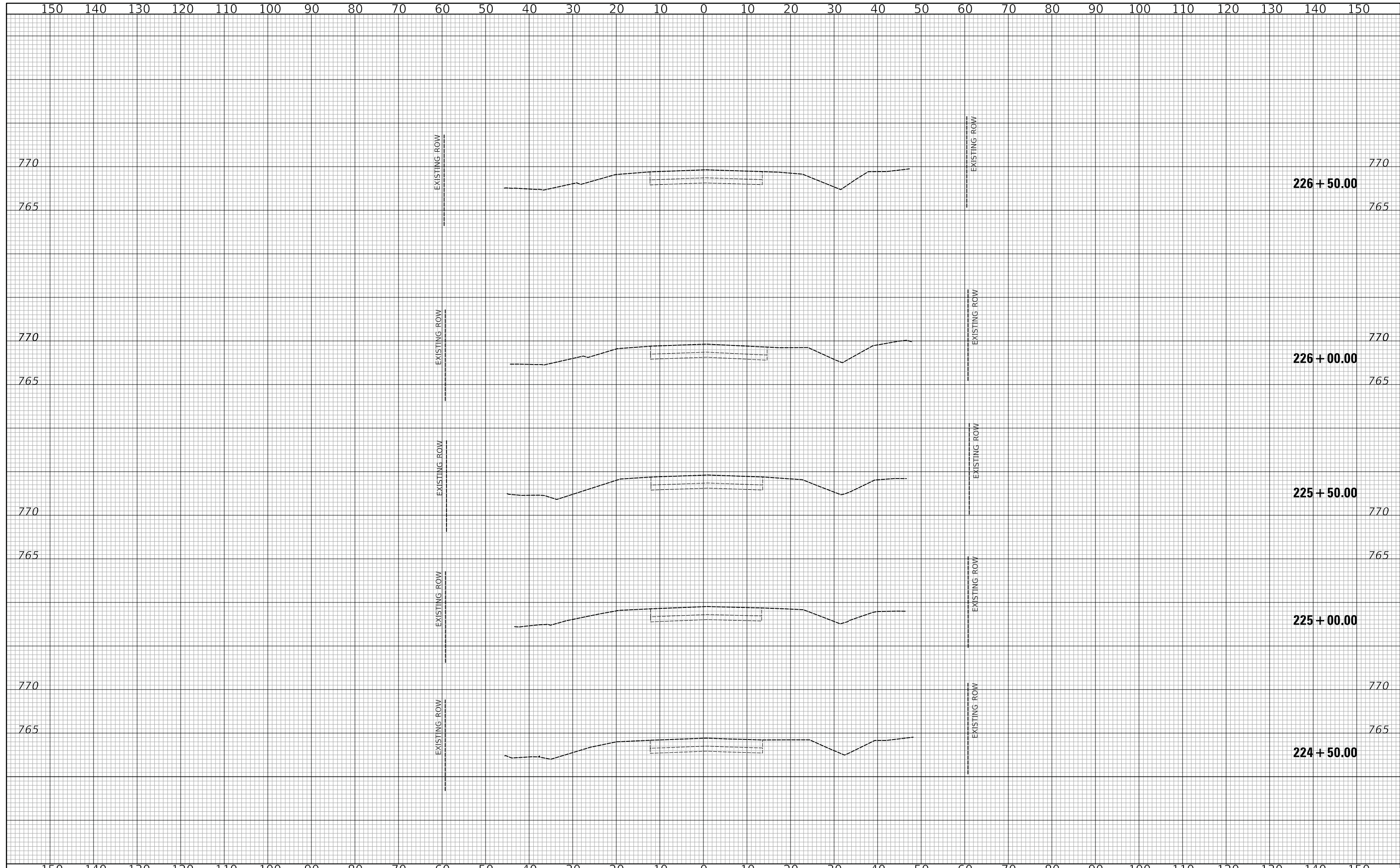
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - PARK TRAIL**

SHEET 1 OF 1 SHEETS STA. 300+00.00 TO STA. 301+40.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	111
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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

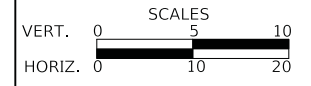
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	



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**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
US ROUTE 45 CROSS SECTIONS - STAGE I**

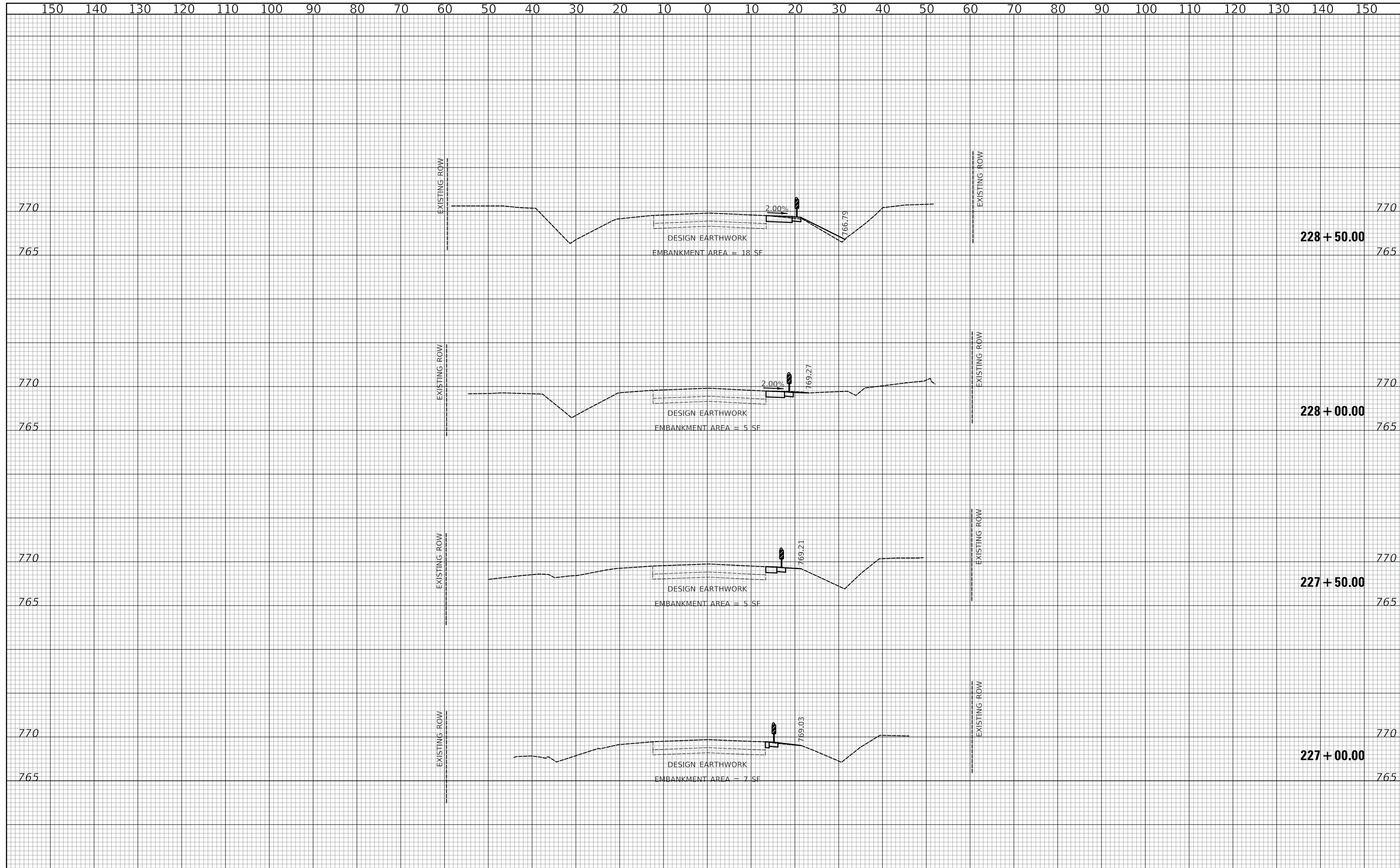
SHEET 1 OF 8 SHEETS STA.224+50.00 TO STA.226+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	112
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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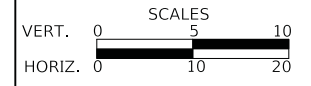
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	



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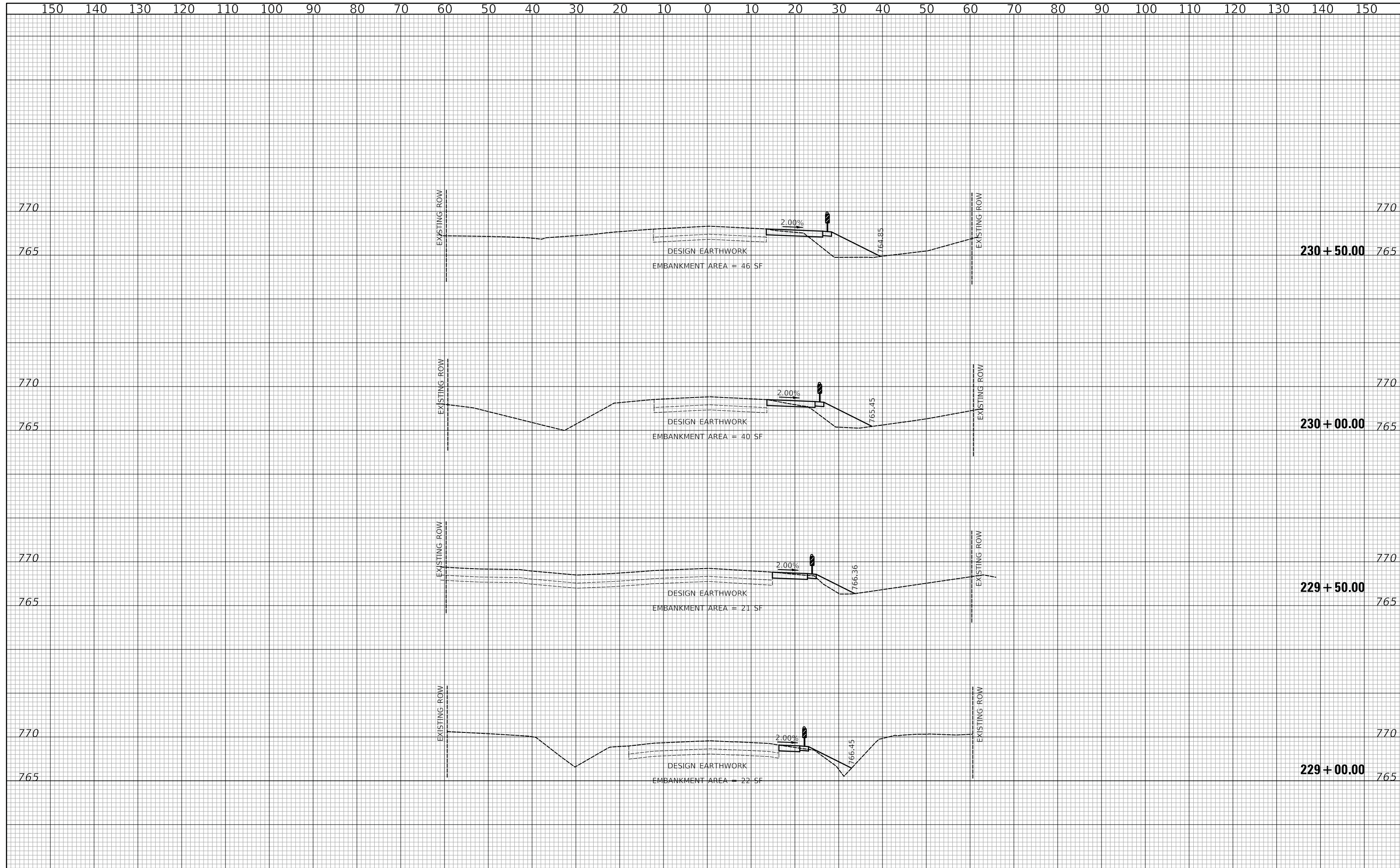
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE I**

SHEET 2 OF 8 SHEETS STA.227+00.00 TO STA.228+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	113
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
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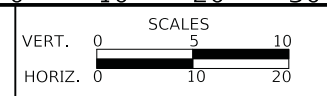
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
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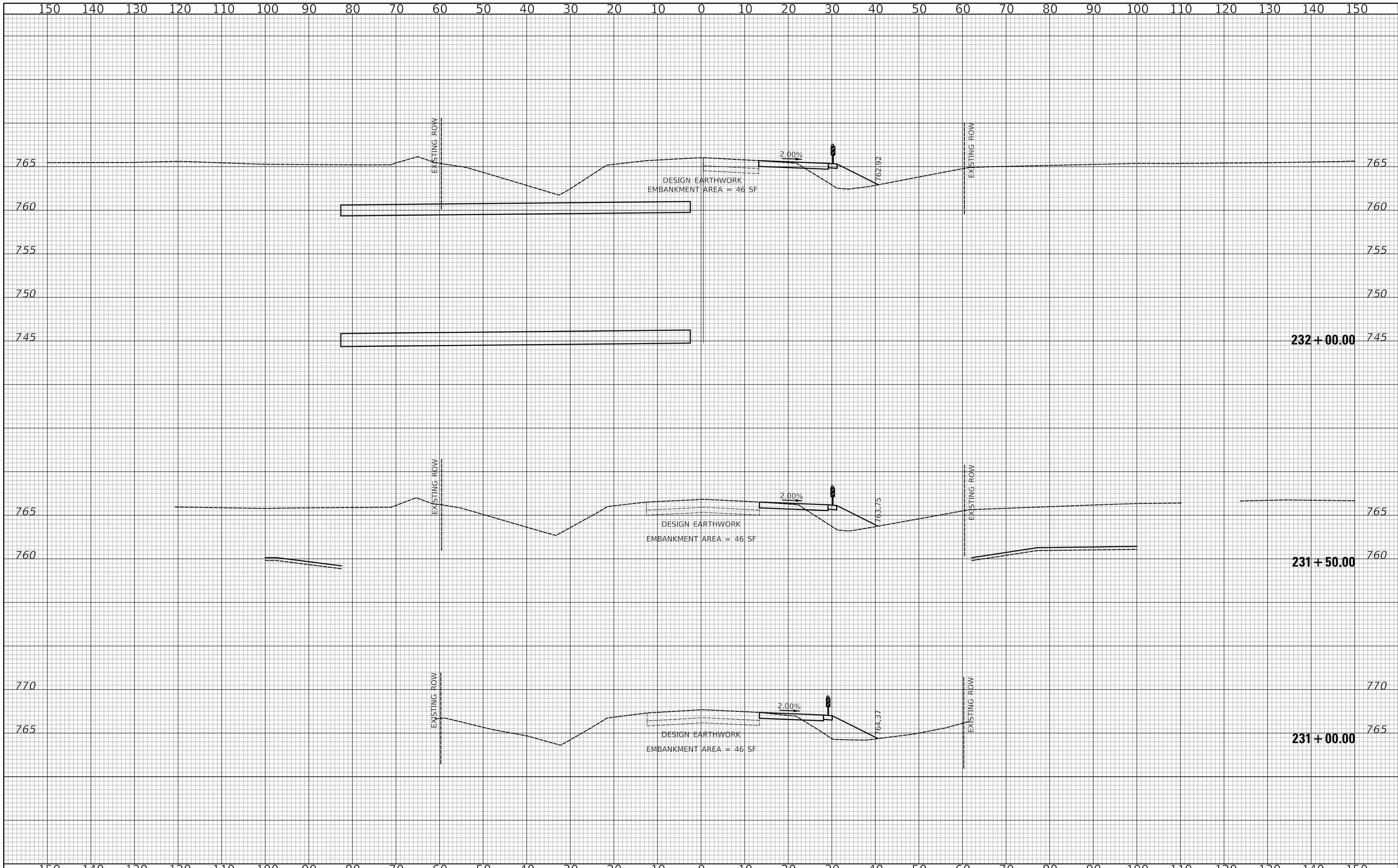
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE I**

SHEET 3 OF 8 SHEETS STA.229+00.00 TO STA.230+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	114
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
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FINAL	
SURVEY	
NOTE BOOK	
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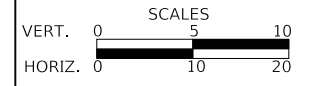
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SURVEY	
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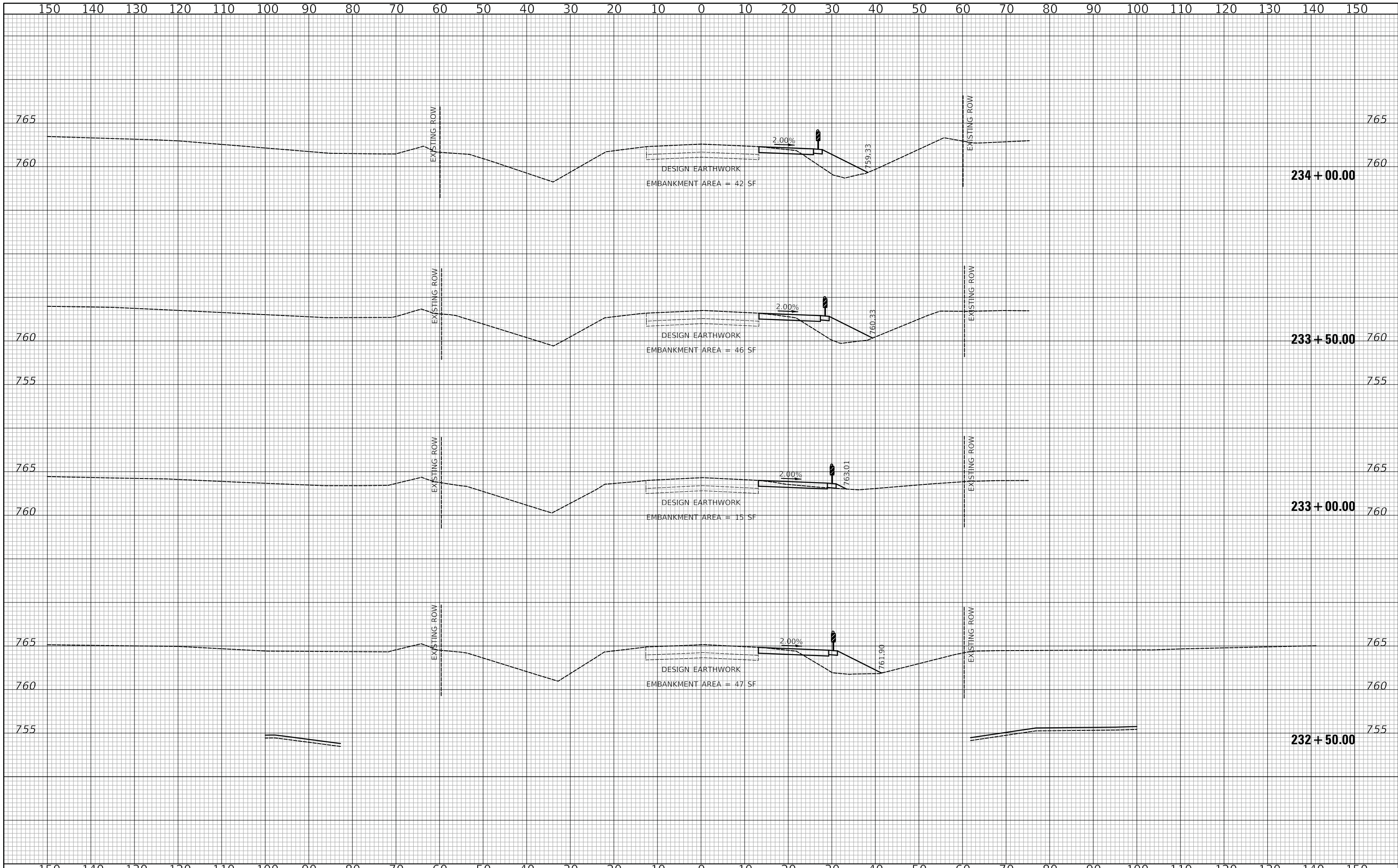
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE I**

SHEET 4 OF 8 SHEETS STA.231+00.00 TO STA.232+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	115
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

DATE	
BY	
SURVEYED	
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NOTE BOOK	
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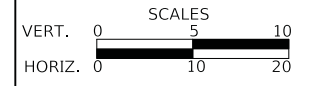
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ORIGINAL SURVEY	
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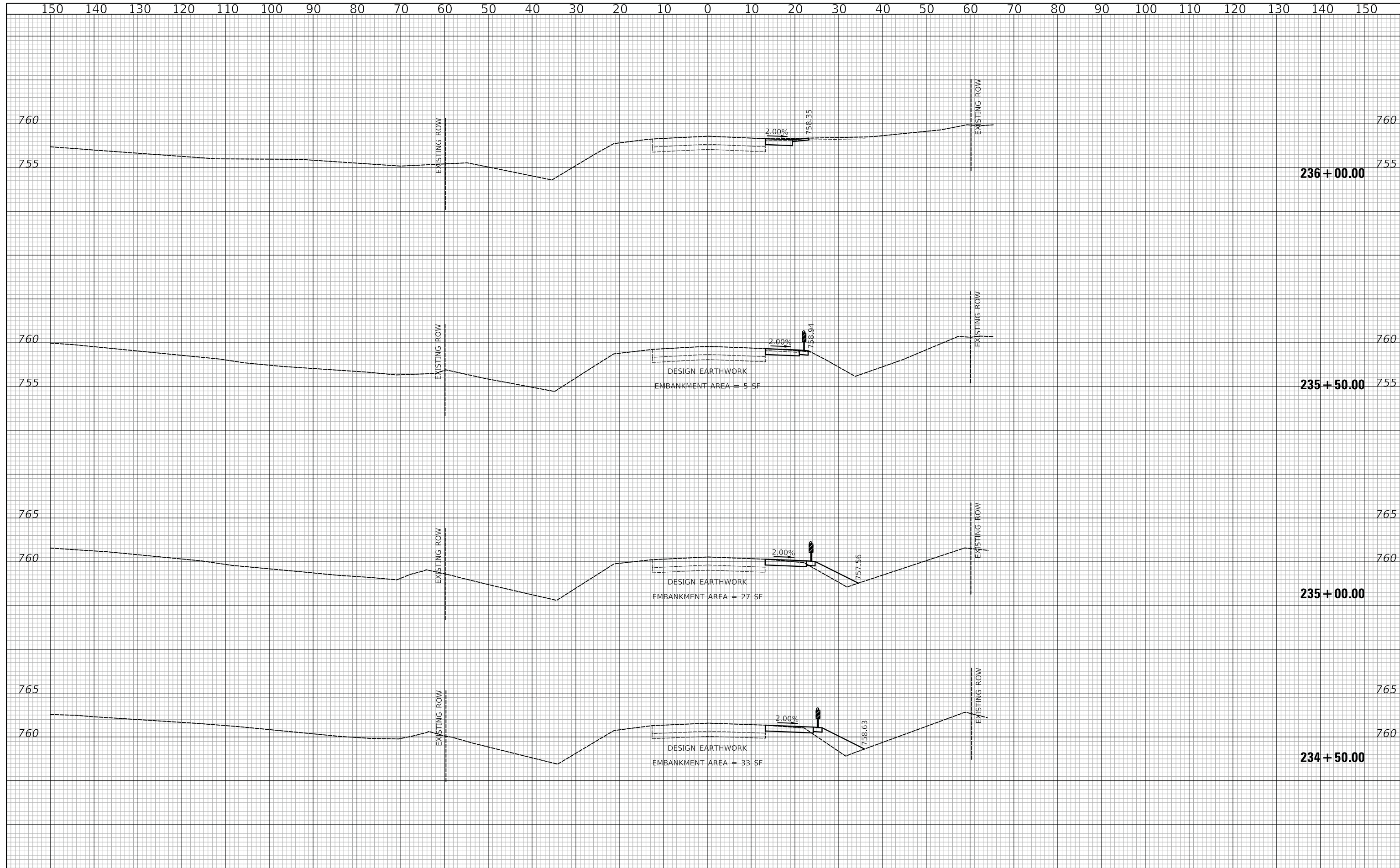


**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE I**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	116
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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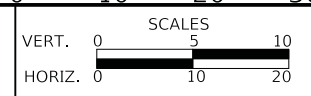
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
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	AREAS CHECKED	
	AREAS CHECKED	



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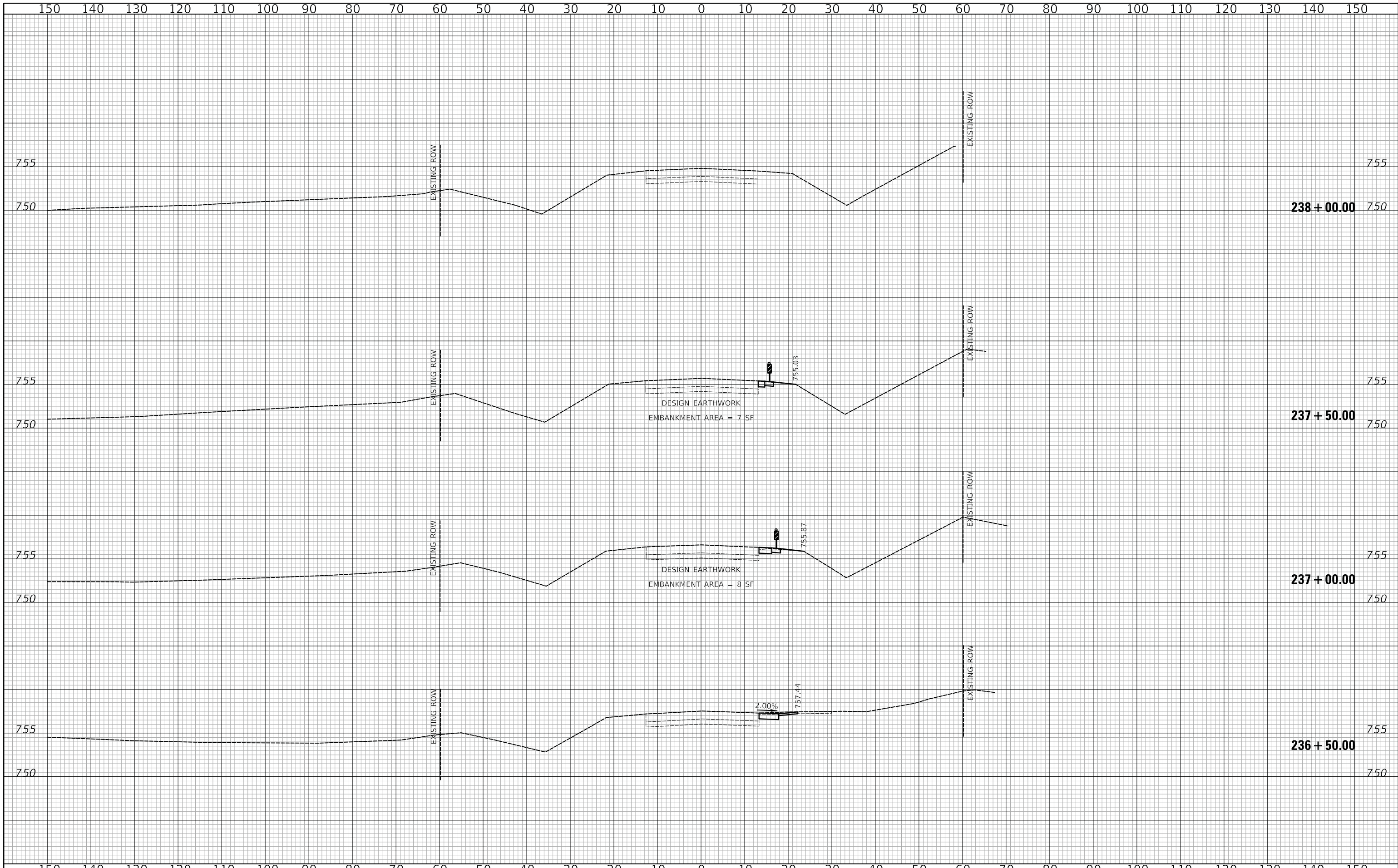
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE I**

SHEET 6 OF 8 SHEETS STA.234+50.00 TO STA.236+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	117
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

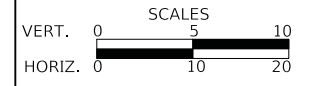
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
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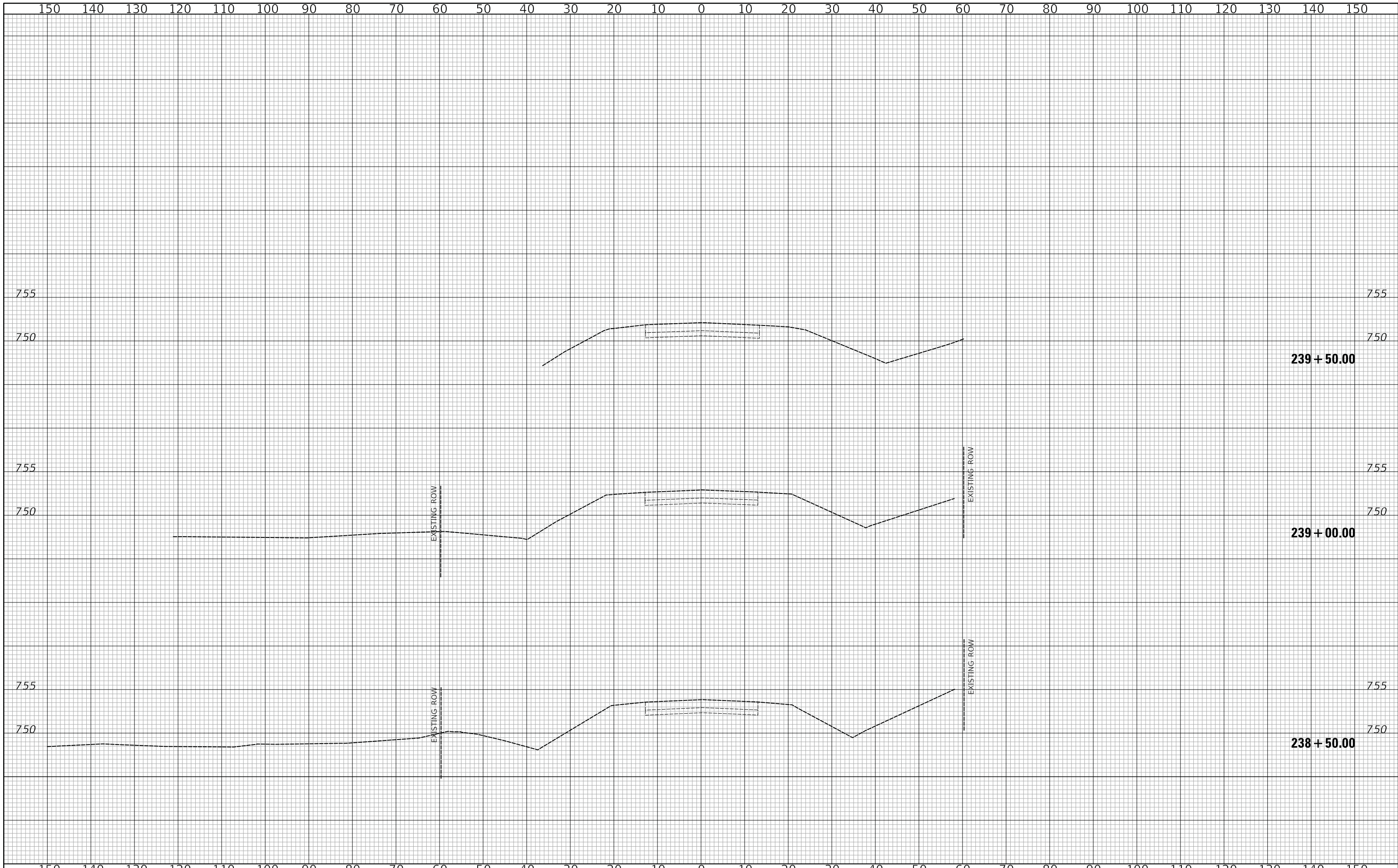
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE I**

SHEET 7 OF 8 SHEETS STA.236+50.00 TO STA.238+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	118
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



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DATE - 05/15/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

VERT.	0	5	10
HORIZ.	0	10	20

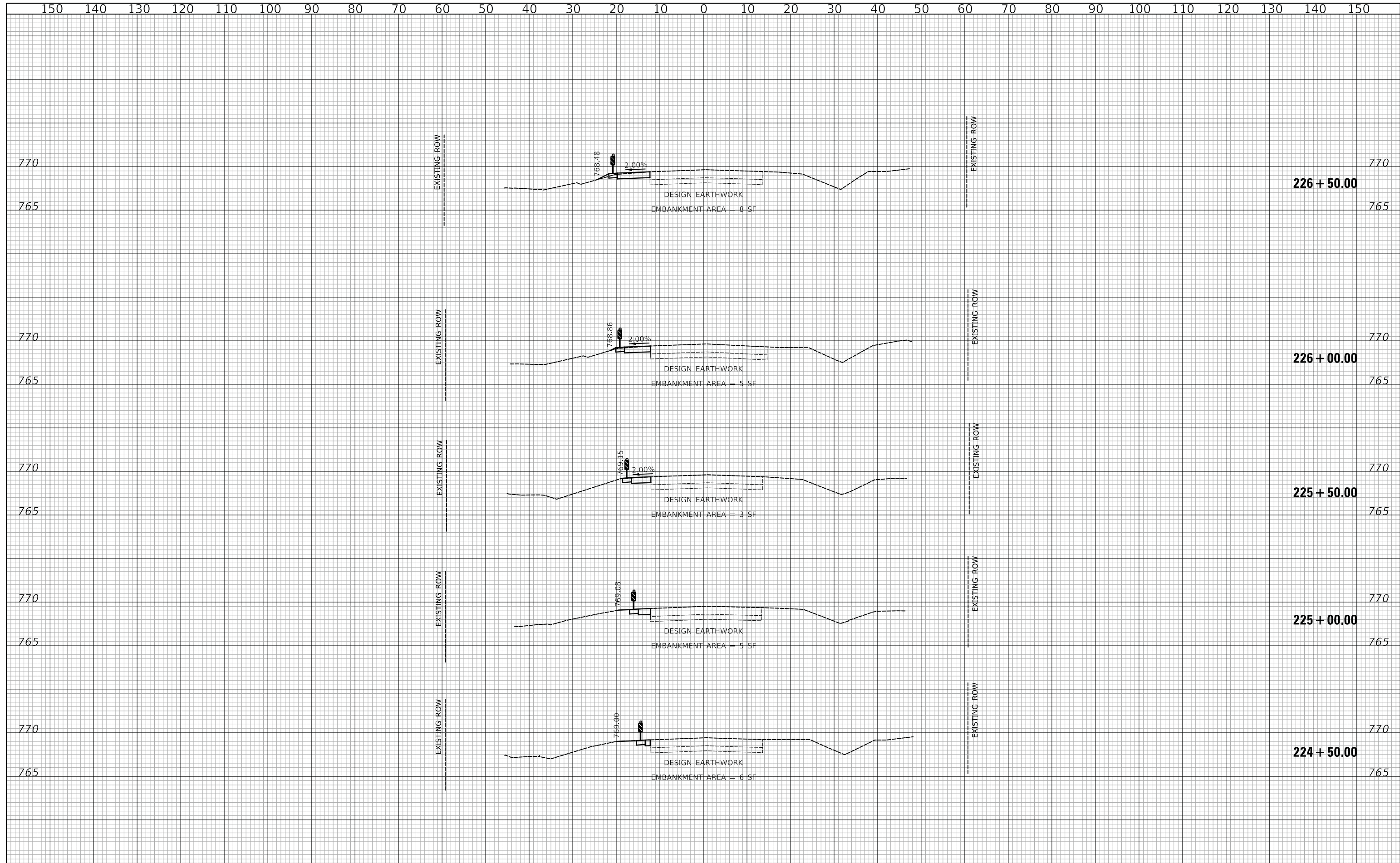
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
US ROUTE 45 CROSS SECTIONS - STAGE I**

SHEET 8 OF 8 SHEETS STA.238+50.00 TO STA.239+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
0334	16-F3000-05-BT	LAKE	146	119	
				CONTRACT NO. 61G65	
FED. ROAD DIST. NO. 1				ILLINOIS	FED. AID PROJECT

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

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

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE II**

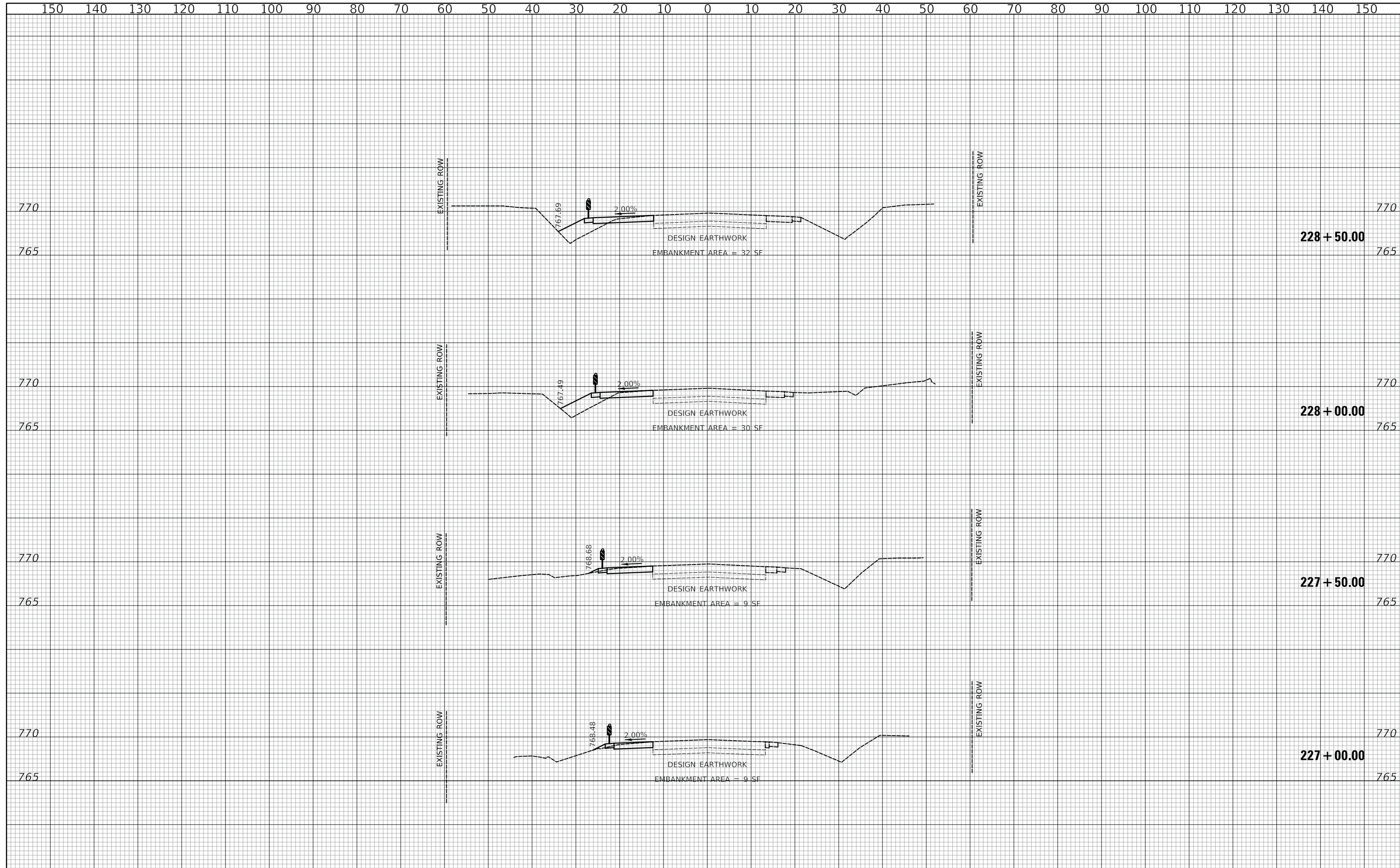
SHEET 1 OF 8 SHEETS STA.224+50.00 TO STA.226+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	120
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS	
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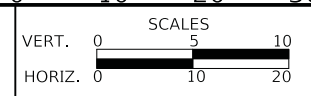
ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
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DRAWN - AAS	REVISIED -
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DATE - 05/15/2020	REVISIED -

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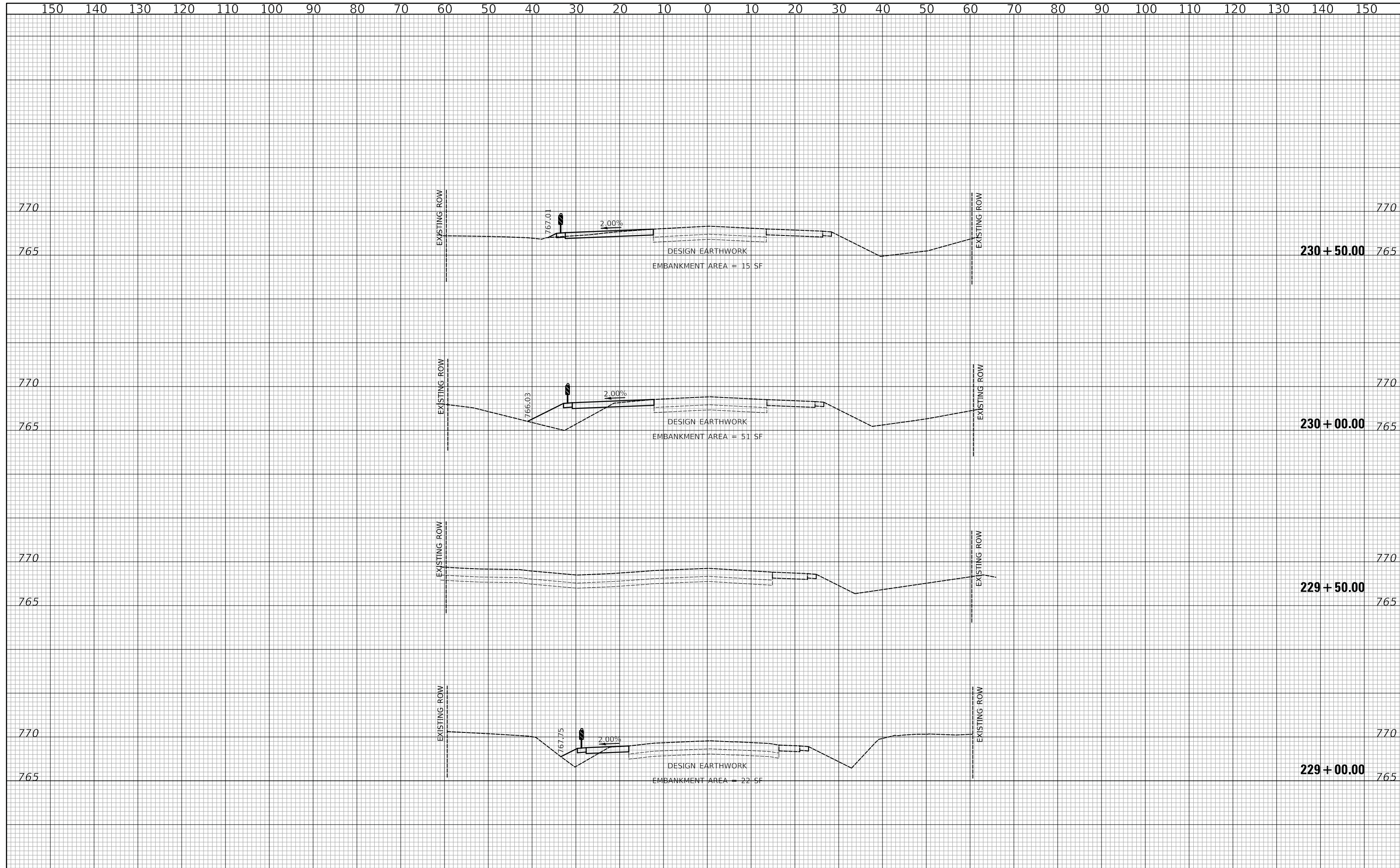
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE II**

SHEET 2 OF 8 SHEETS STA.227+00.00 TO STA.228+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	121
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS	
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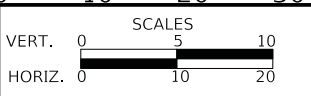
ORIGINAL SURVEY NO.	SURVEYED	DATE
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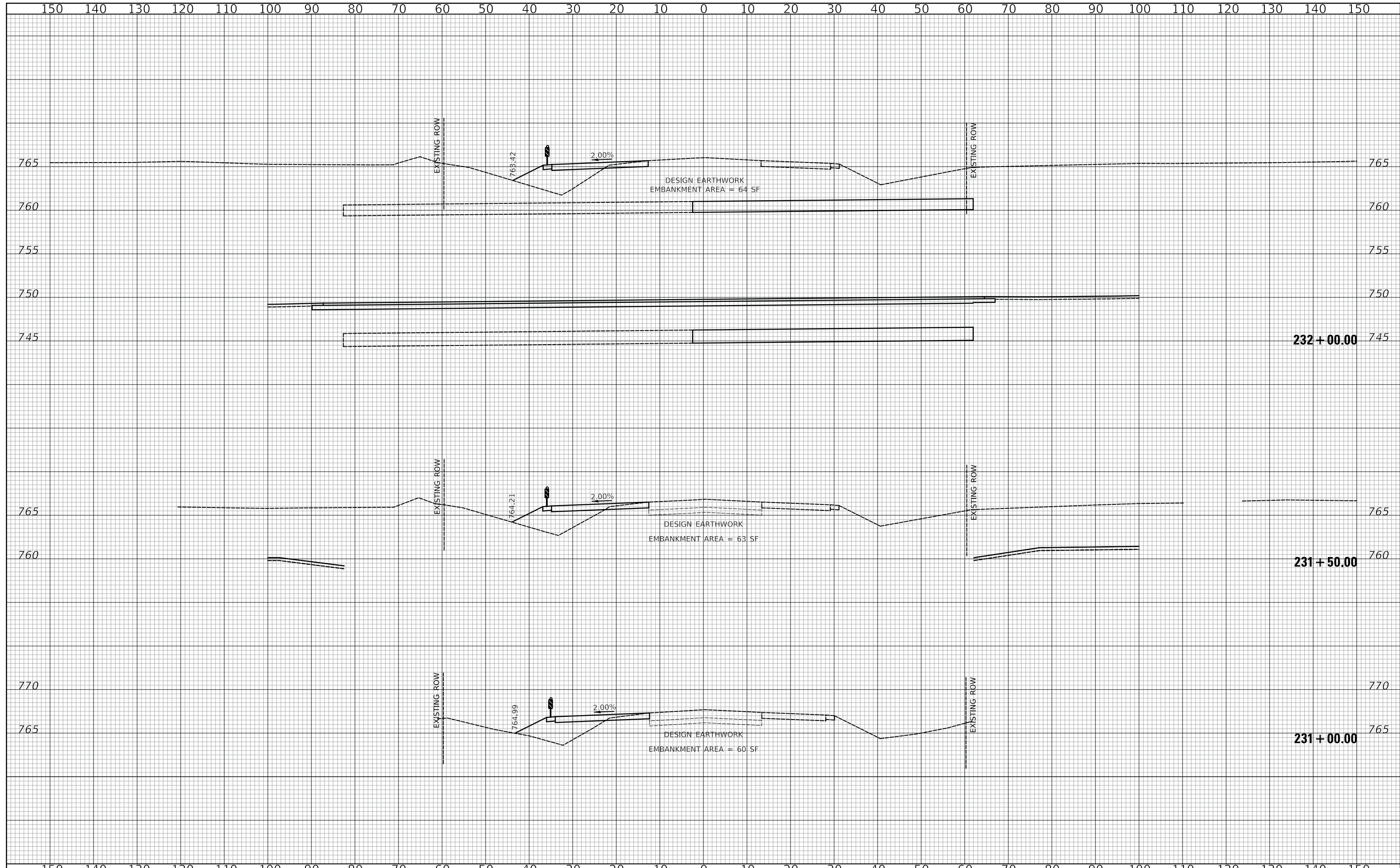
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE II**

SHEET 3 OF 8 SHEETS STA.229+00.00 TO STA.230+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	122
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	
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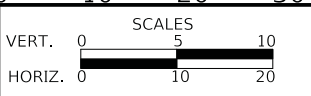
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ORIGINAL SURVEY	
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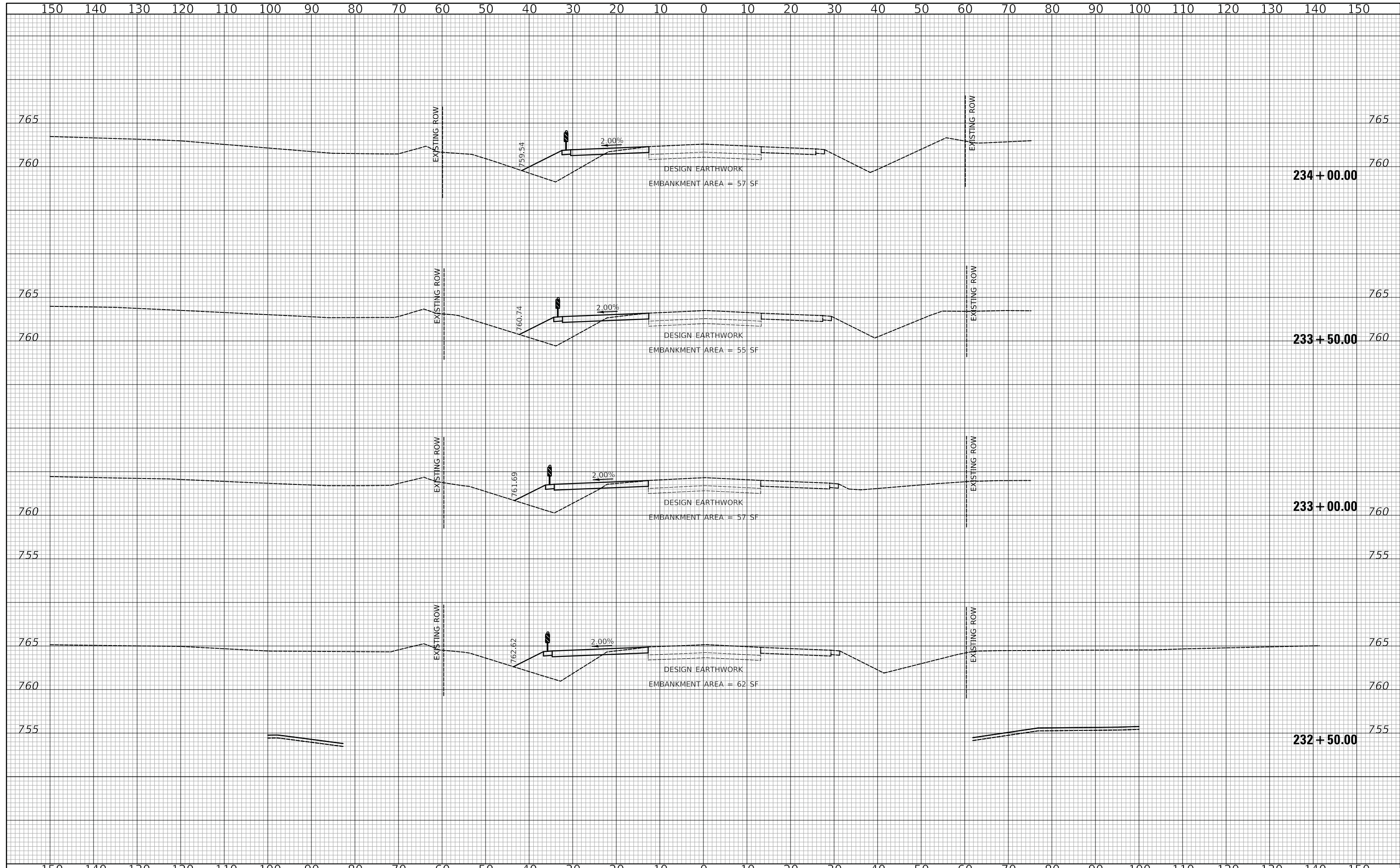
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE II**

SHEET 4 OF 8 SHEETS STA.231+00.00 TO STA.232+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	123
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	
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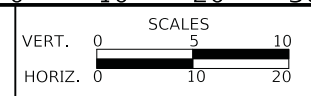
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ORIGINAL SURVEY	
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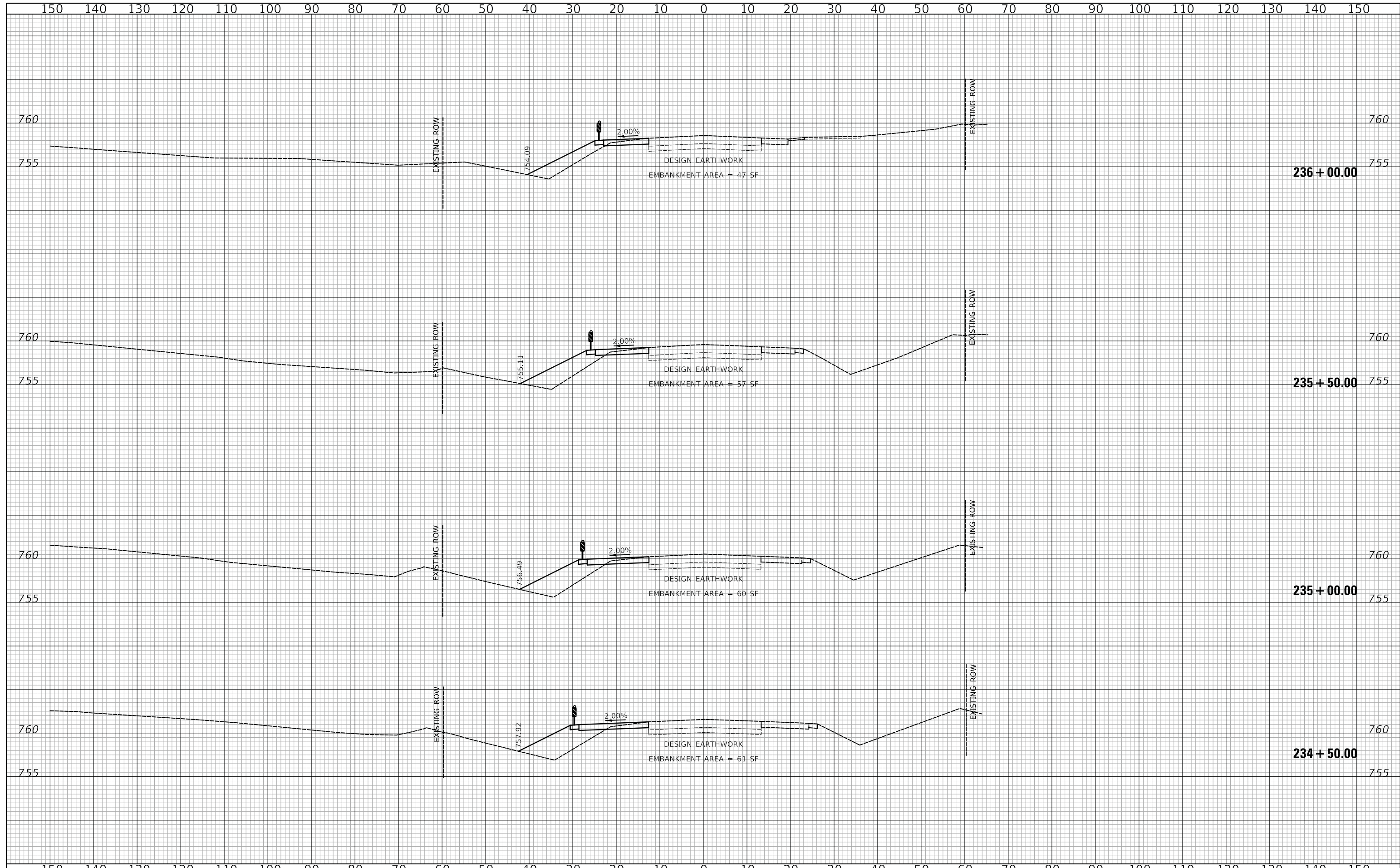
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE II**

SHEET 5 OF 8 SHEETS STA.232+50.00 TO STA.234+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	124
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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SURVEYED	
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FINAL SURVEY	
NOTE BOOK	
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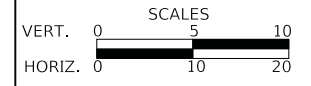
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ORIGINAL SURVEY	
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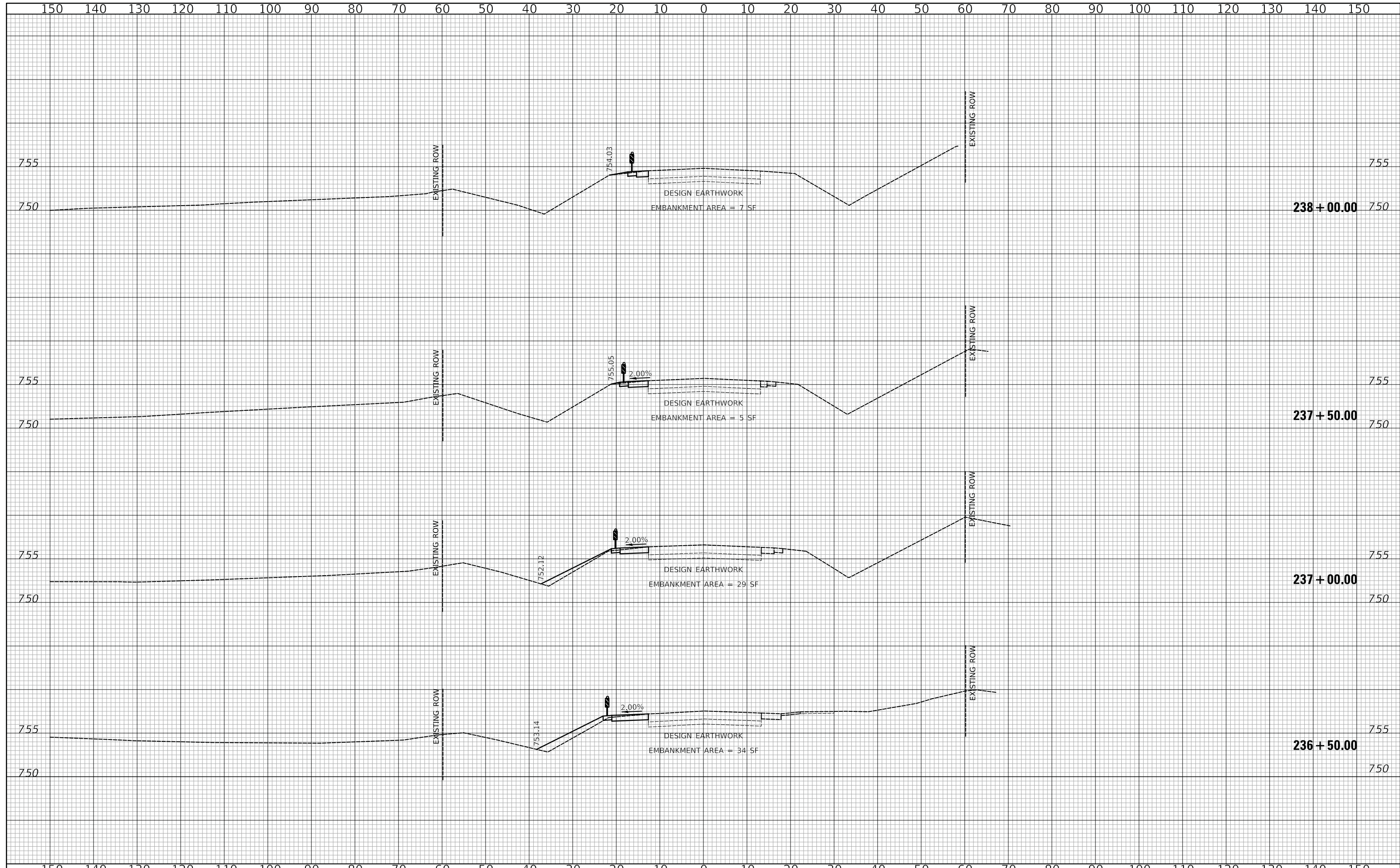
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE II**

SHEET 6 OF 8 SHEETS STA.234+50.00 TO STA.236+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	125
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

DATE	
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SURVEYED	
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TEMPLATE	
AREAS	
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FINAL SURVEY	
NOTE BOOK	
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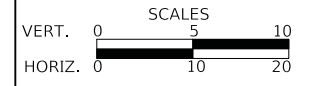
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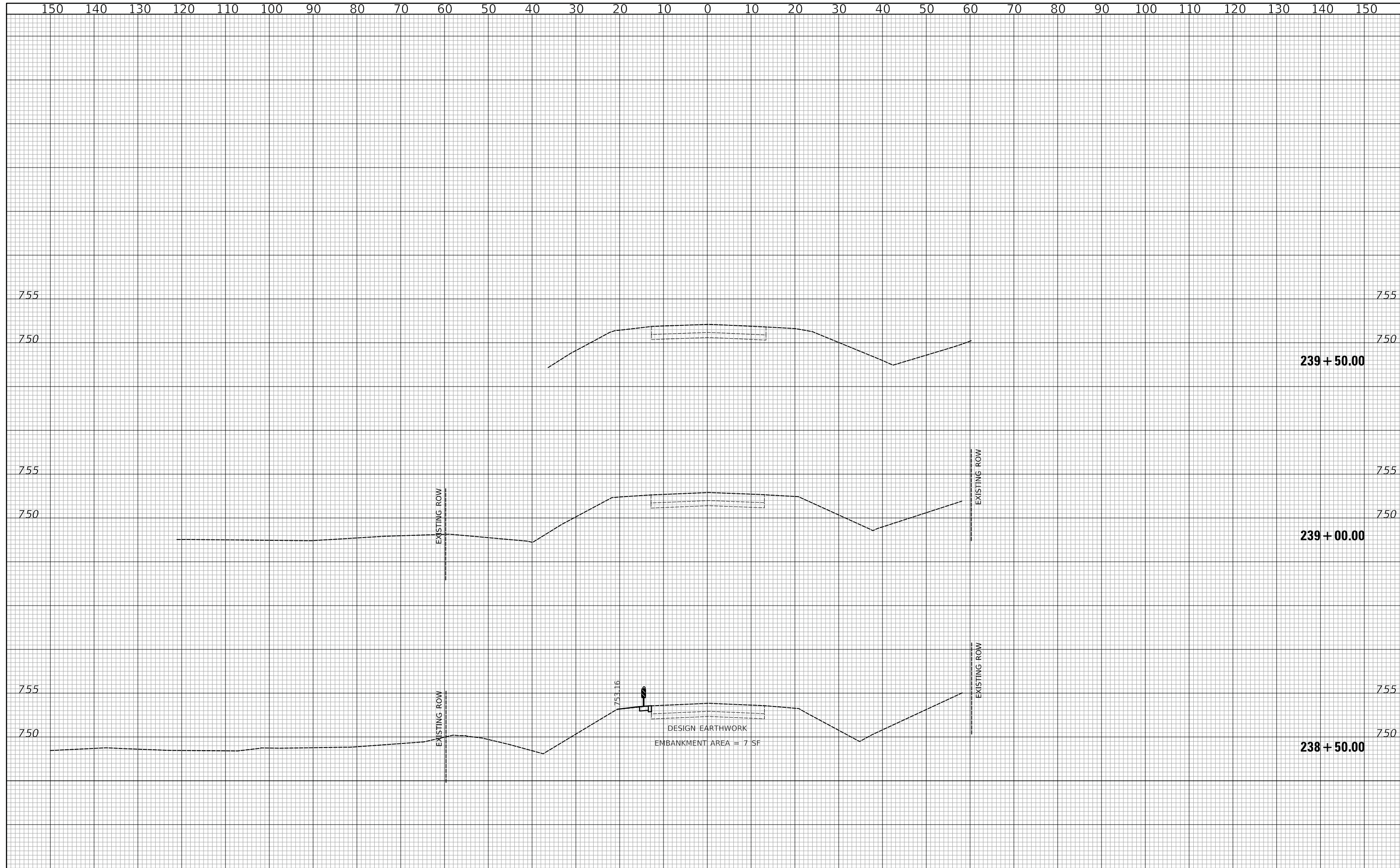
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE II**

SHEET 7 OF 8 SHEETS STA.236+50.00 TO STA.238+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	126
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



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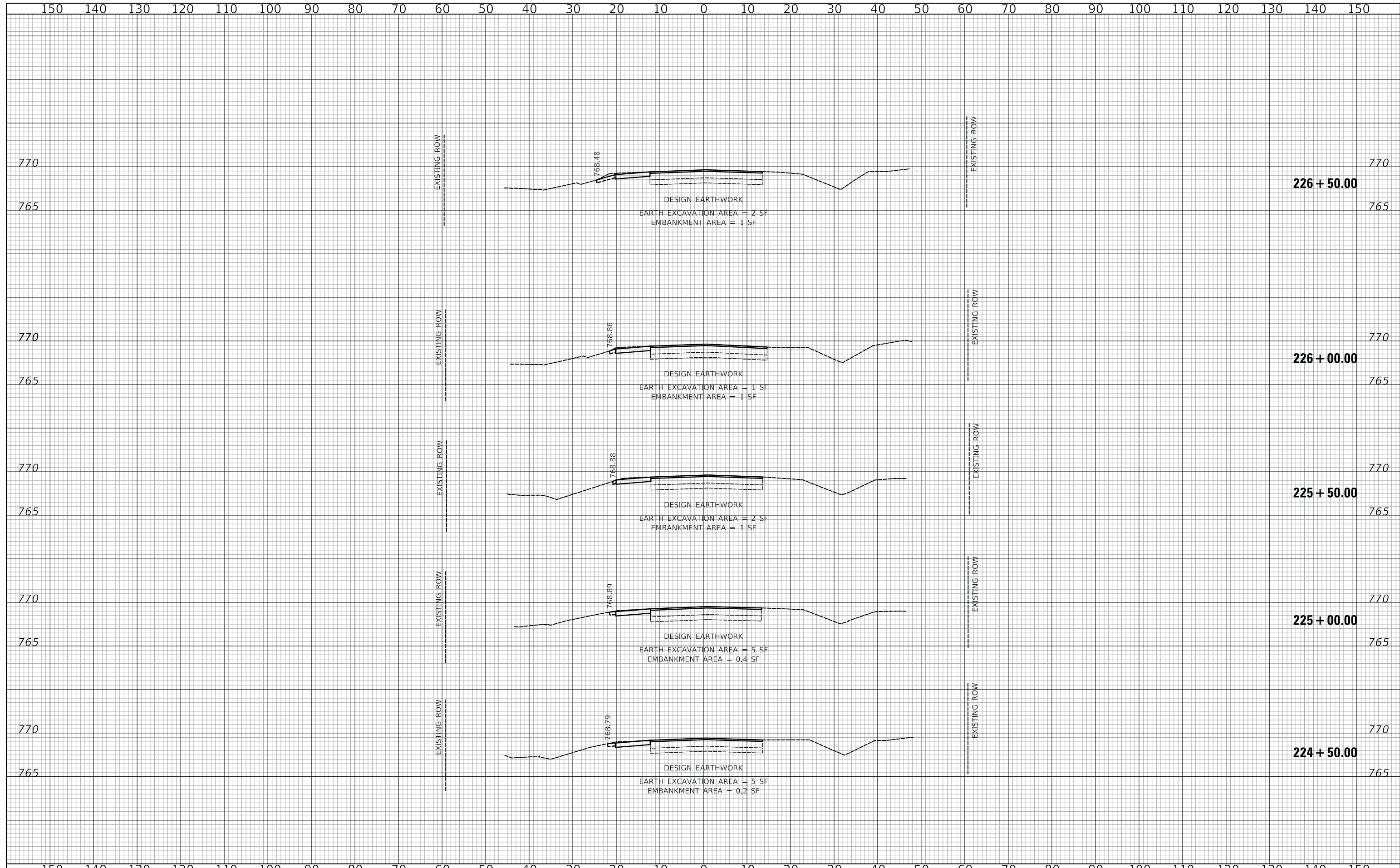
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE II**

SHEET 8 OF 8 SHEETS STA.238+50.00 TO STA.239+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	127
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

DATE	
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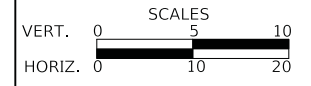
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ORIGINAL SURVEY	
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**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE III**

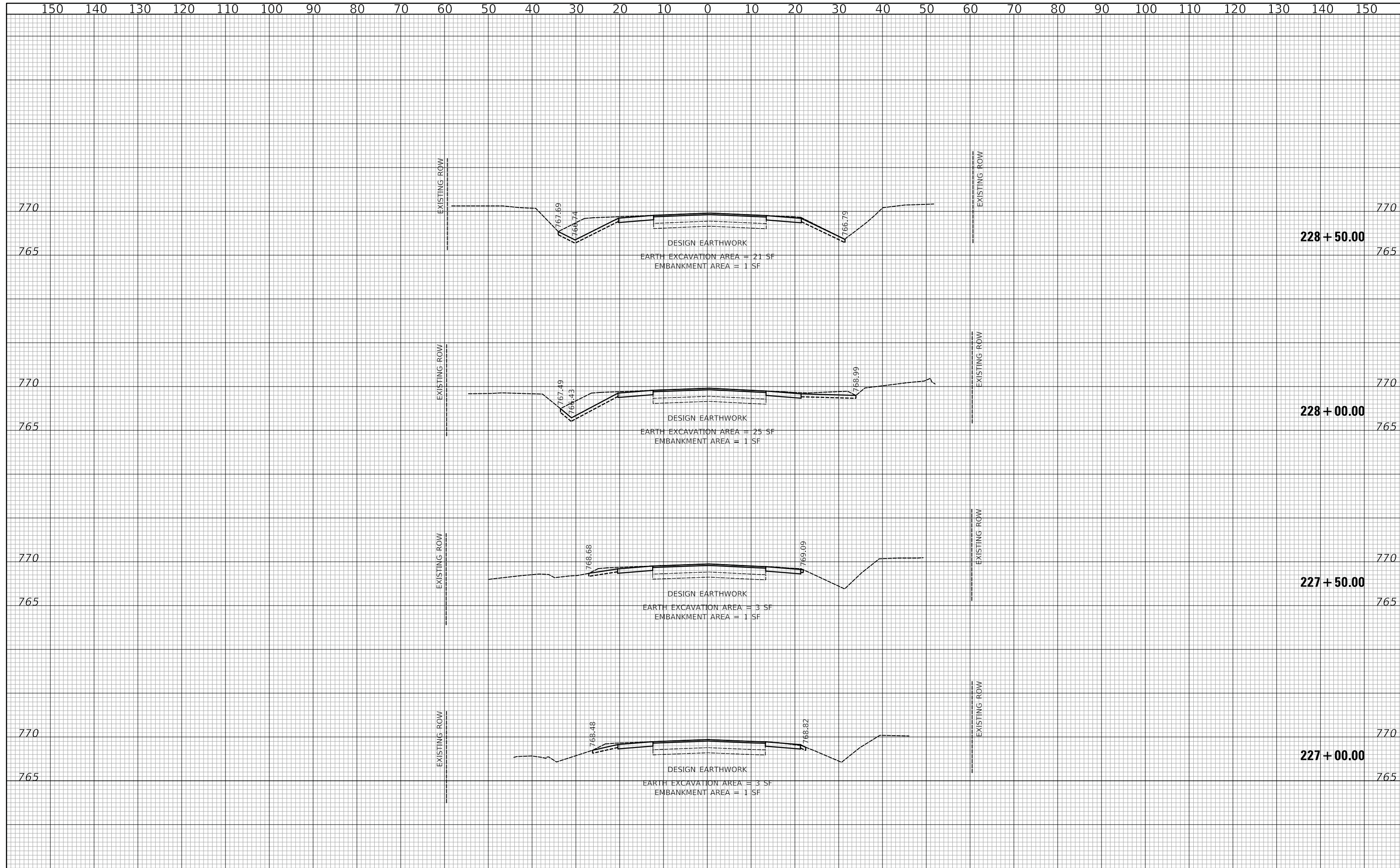
SHEET 1 OF 8 SHEETS STA.224+50.00 TO STA.226+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	128
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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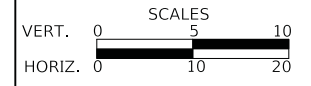
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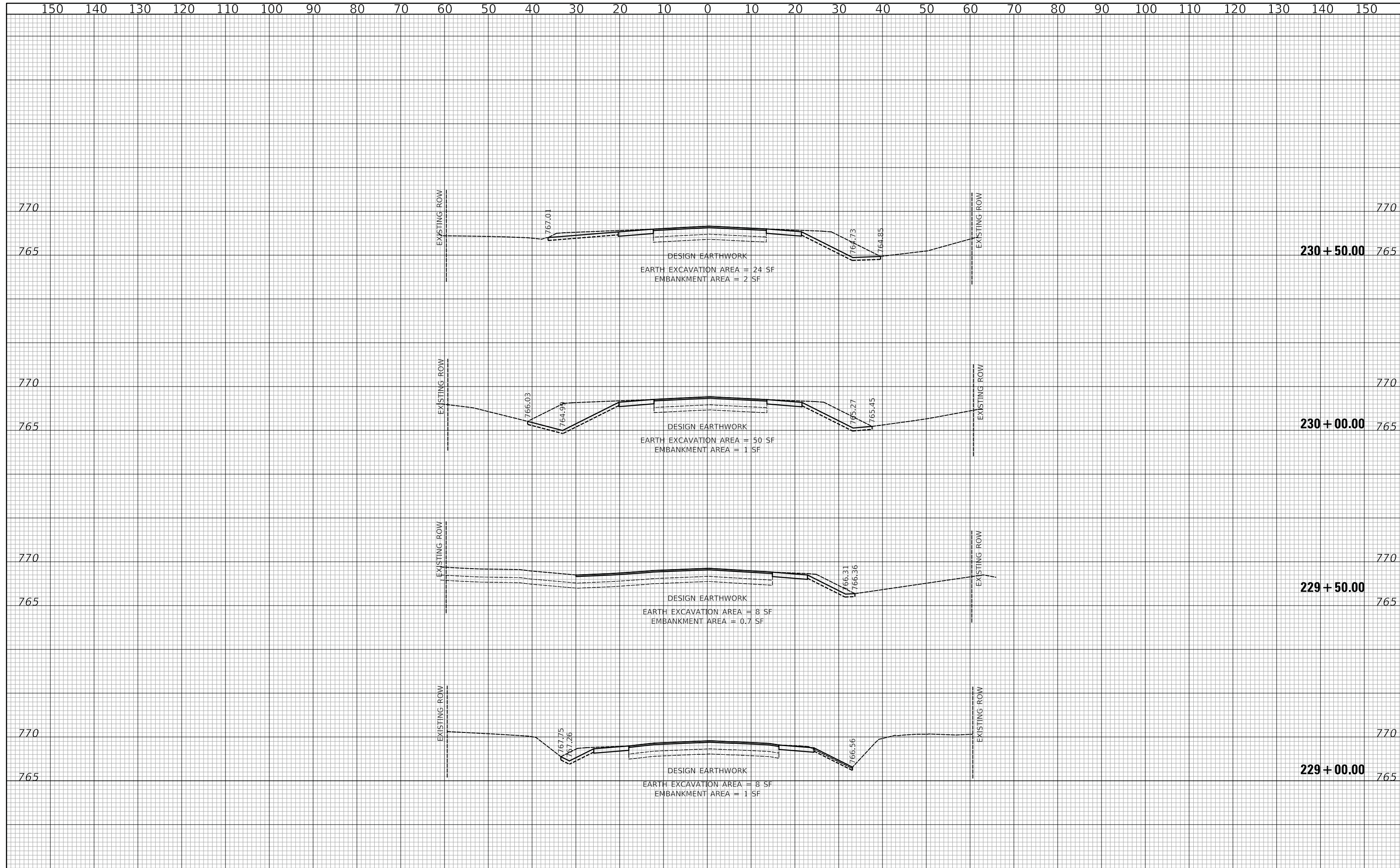
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE III**

SHEET 2 OF 8 SHEETS STA.227+00.00 TO STA.228+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	129
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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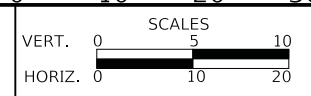
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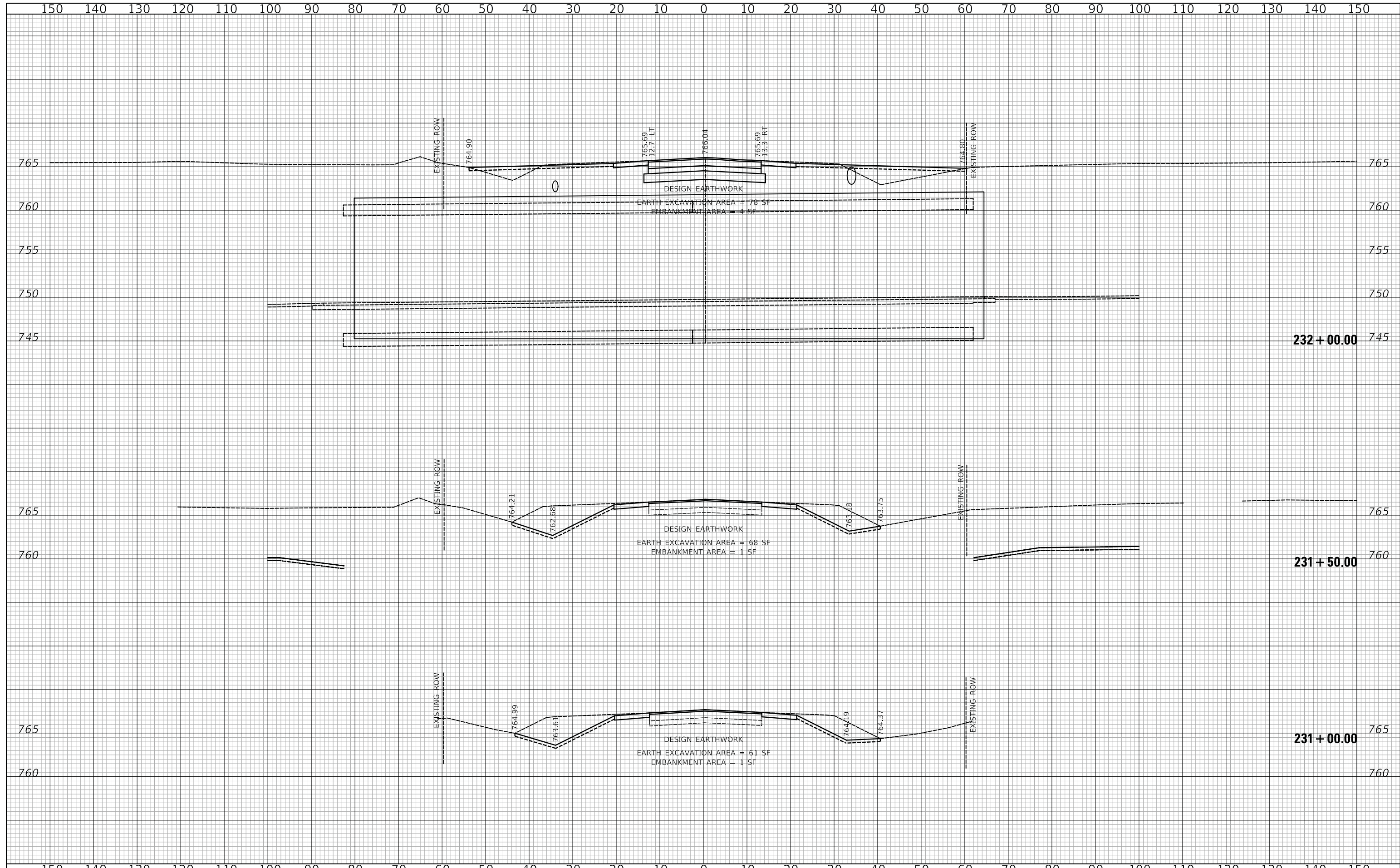
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE III**

SHEET 3 OF 8 SHEETS STA.229+00.00 TO STA.230+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	130
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
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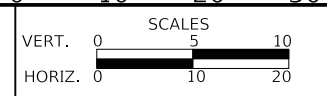
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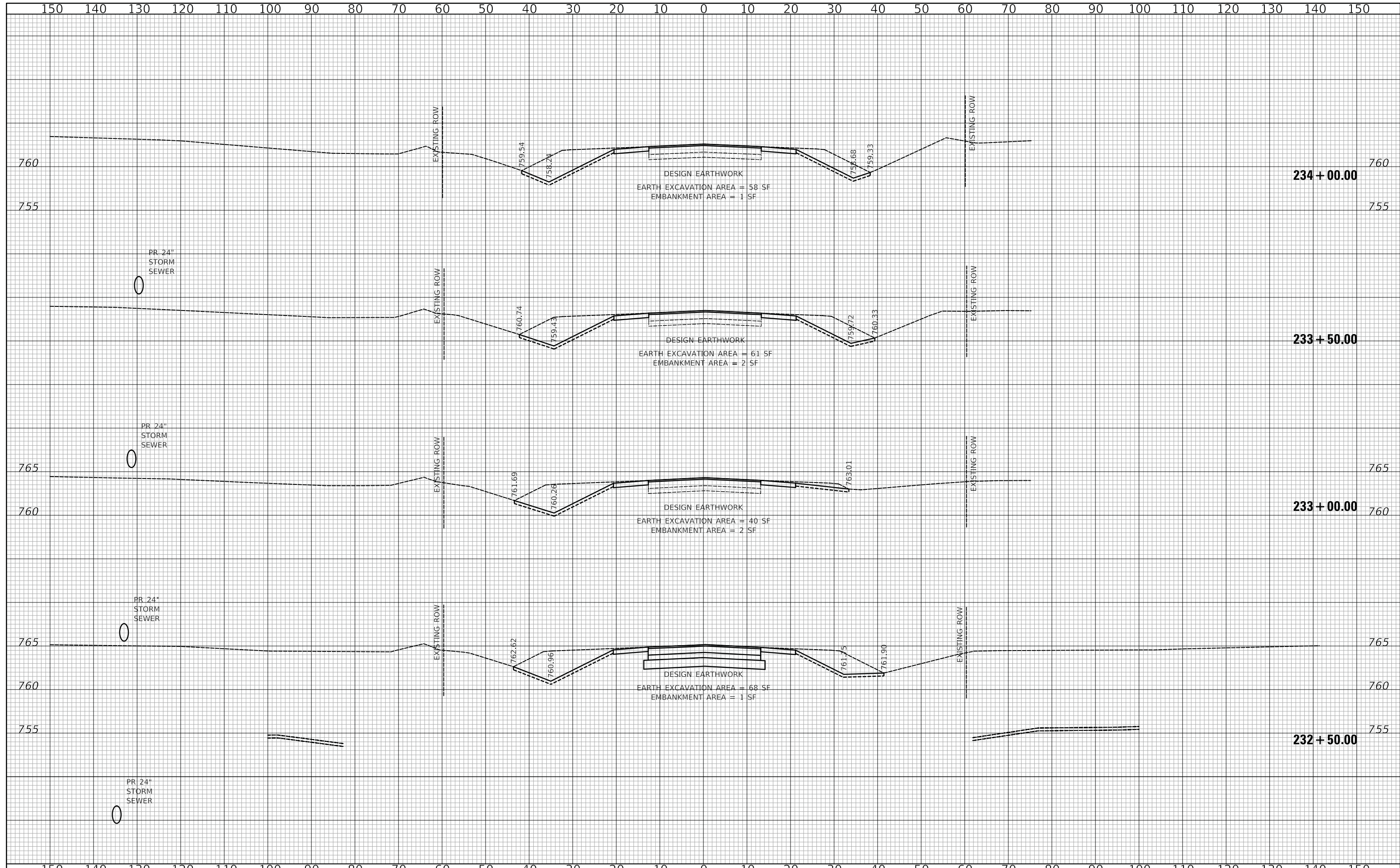
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE III**

SHEET 4 OF 8 SHEETS STA.231+00.00 TO STA.232+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	131
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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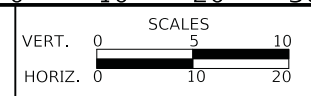
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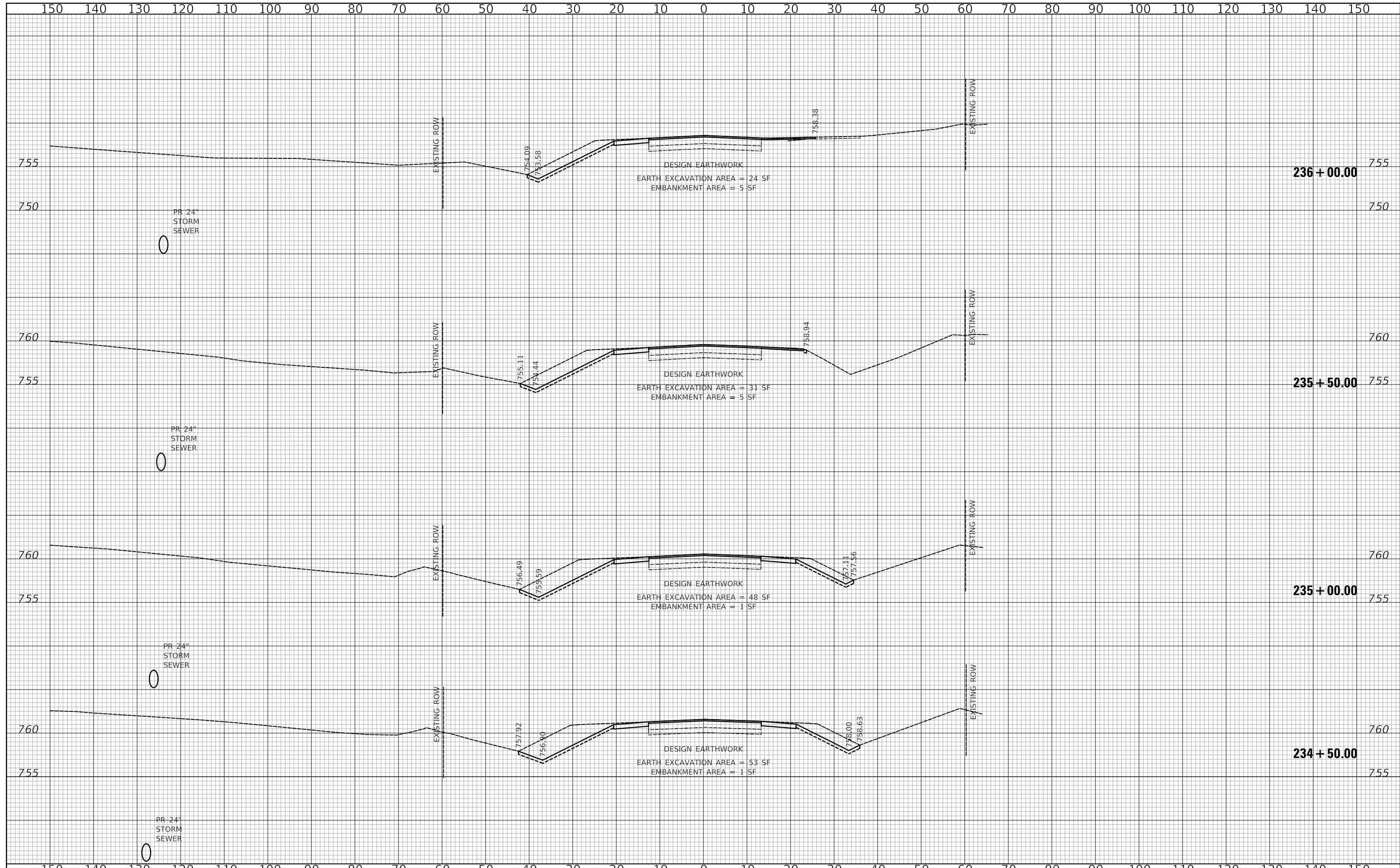
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE III**

SHEET 5 OF 8 SHEETS STA.232+50.00 TO STA.234+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	132
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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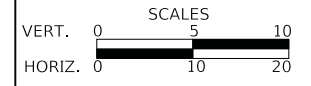
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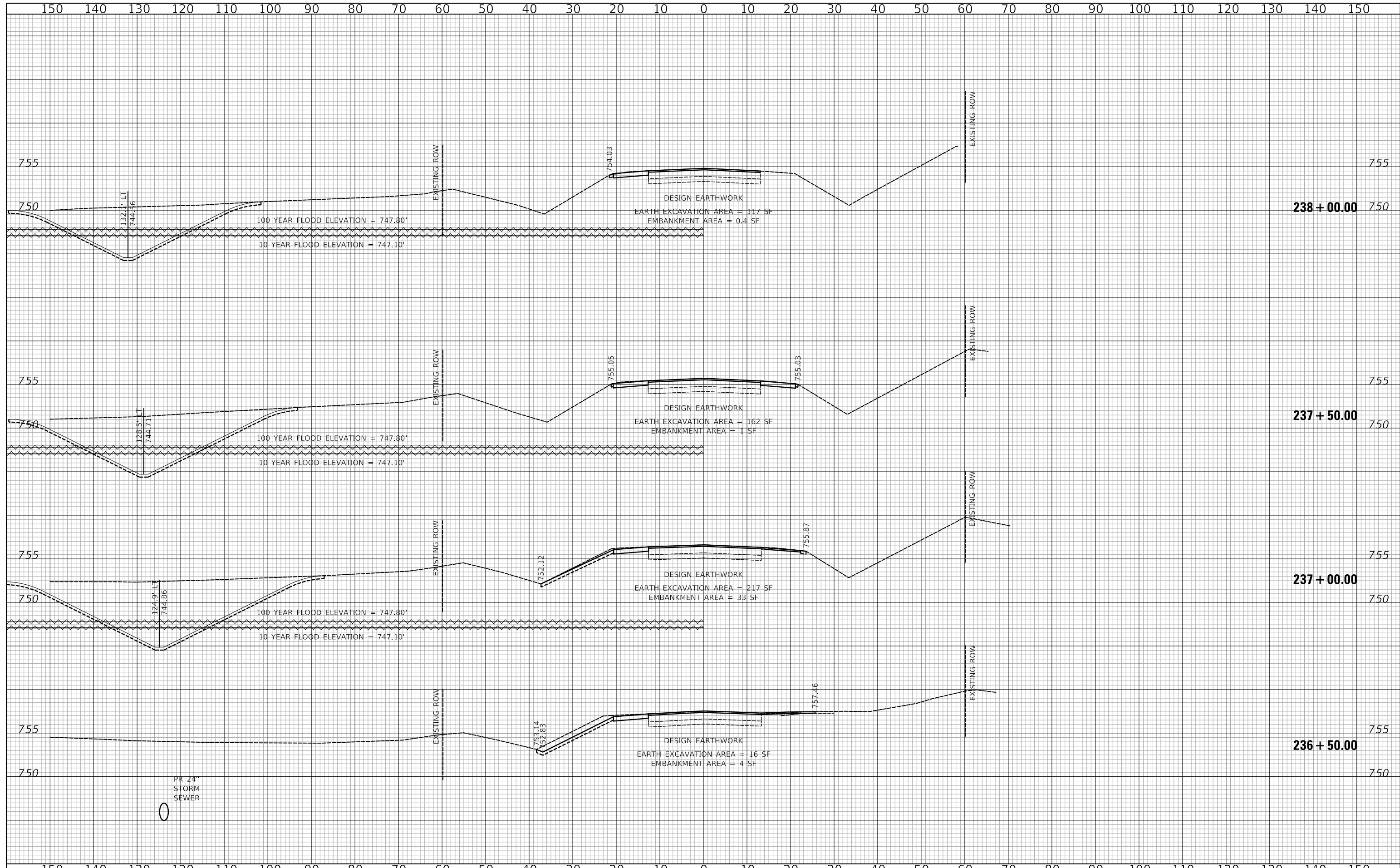
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE III**

SHEET 6 OF 8 SHEETS STA.234+50.00 TO STA.236+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	133
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
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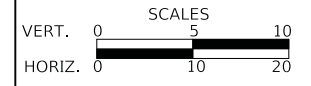
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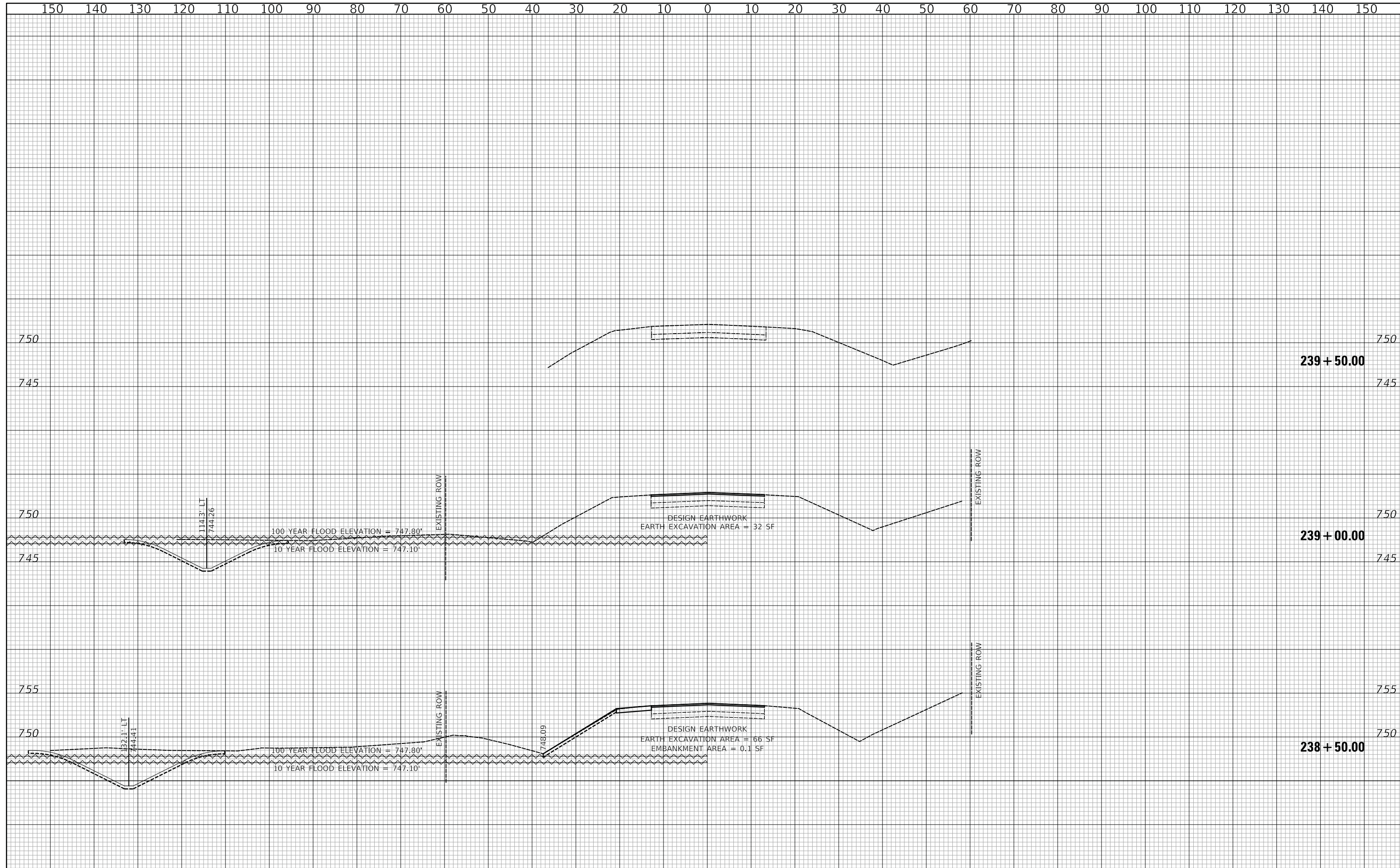
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**US ROUTE 45 CROSS SECTIONS - STAGE III**

SHEET 7 OF 8 SHEETS STA.236+50.00 TO STA.238+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	134
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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

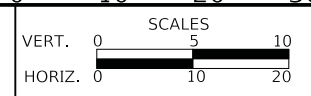
ORIGINAL SURVEY NO.	SURVEYED	DATE
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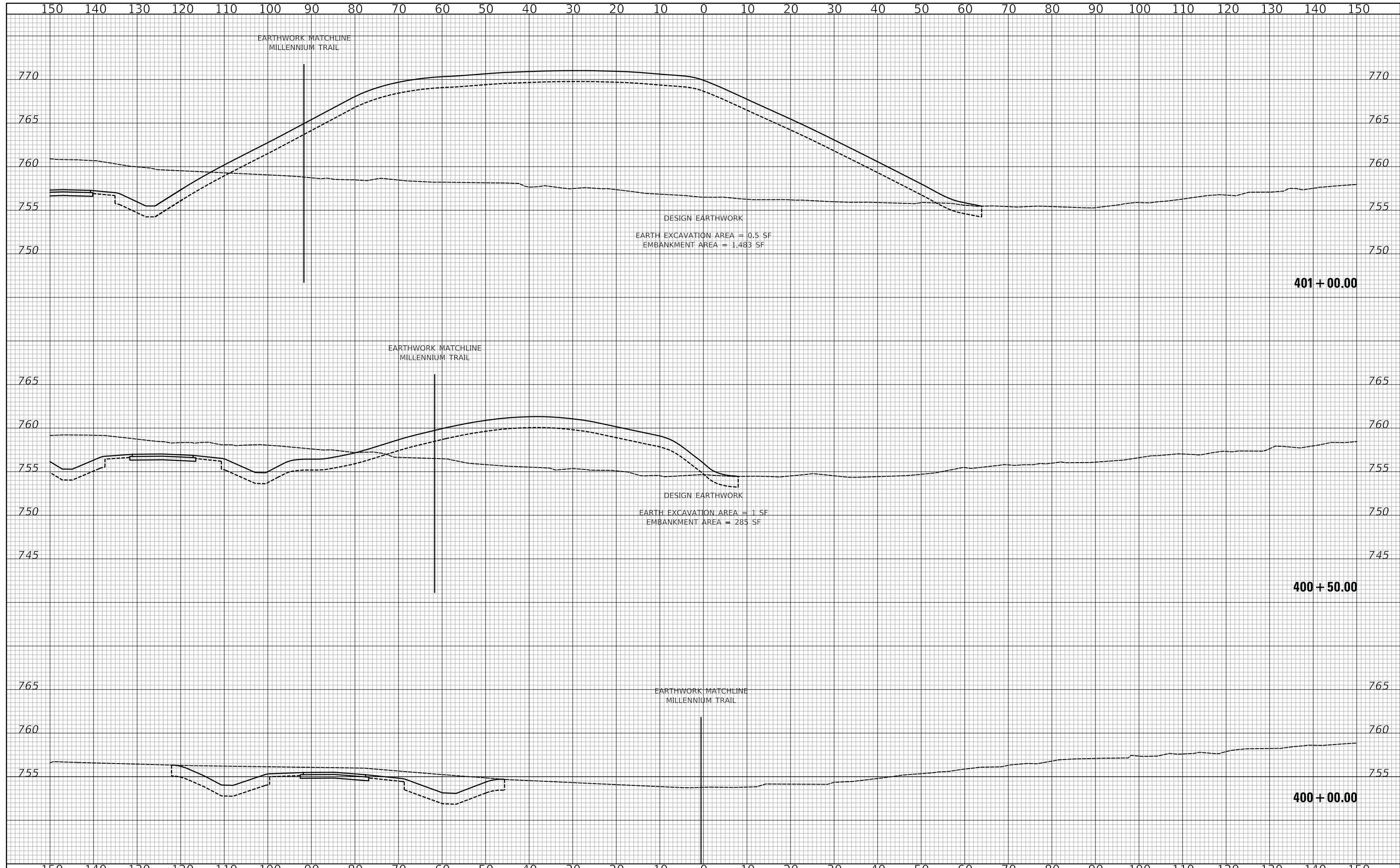
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 US ROUTE 45 CROSS SECTIONS - STAGE III**

SHEET 8 OF 8 SHEETS STA.238+50.00 TO STA.239+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	135
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

DATE	
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DATE - 05/15/2020	REVISED -

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

VERT. 0 5 10  
 HORIZ. 0 10 20

SCALES

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - WEST BERM**

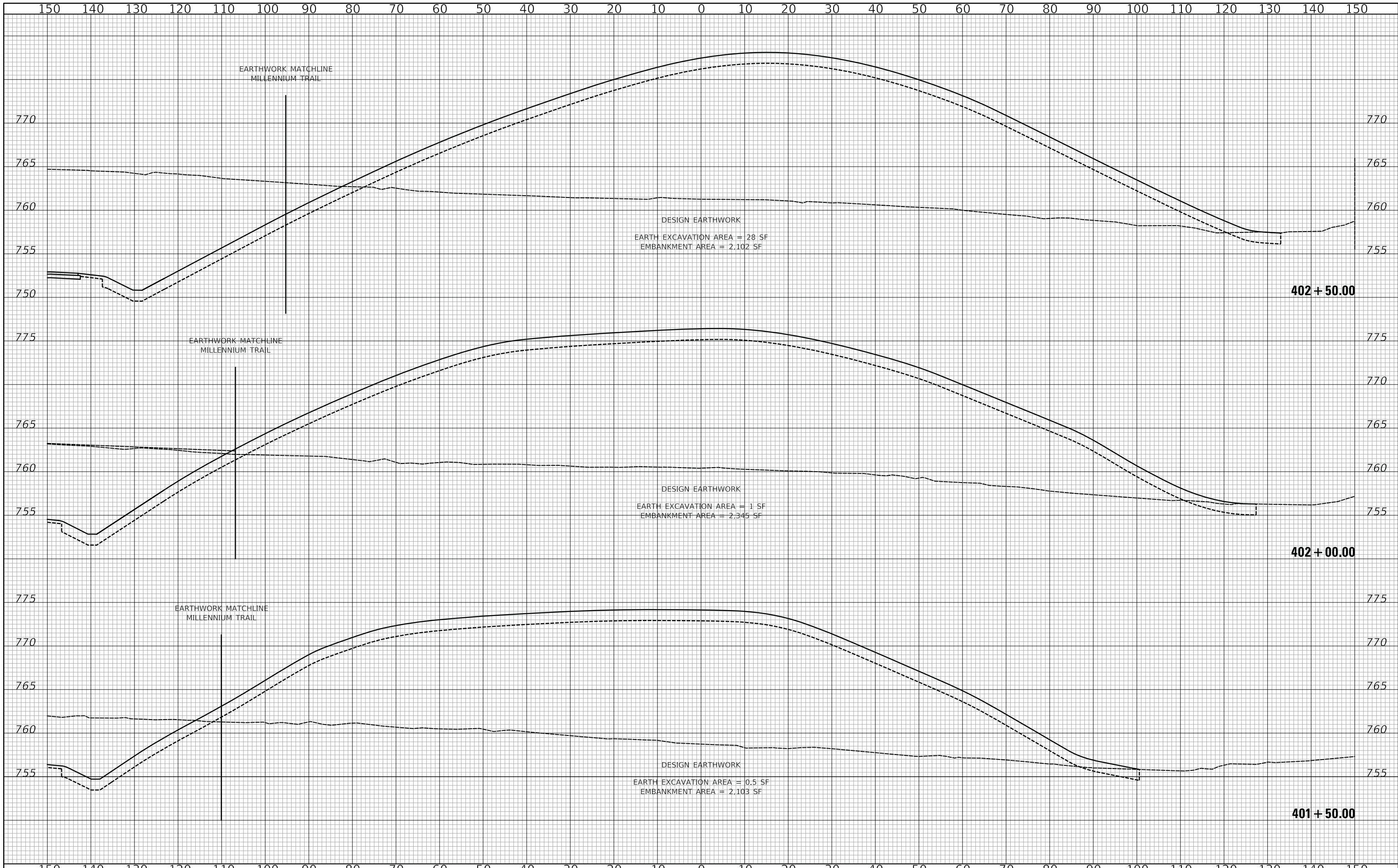
SHEET 1 OF 4 SHEETS STA. 400+00.00 TO STA. 401+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	136
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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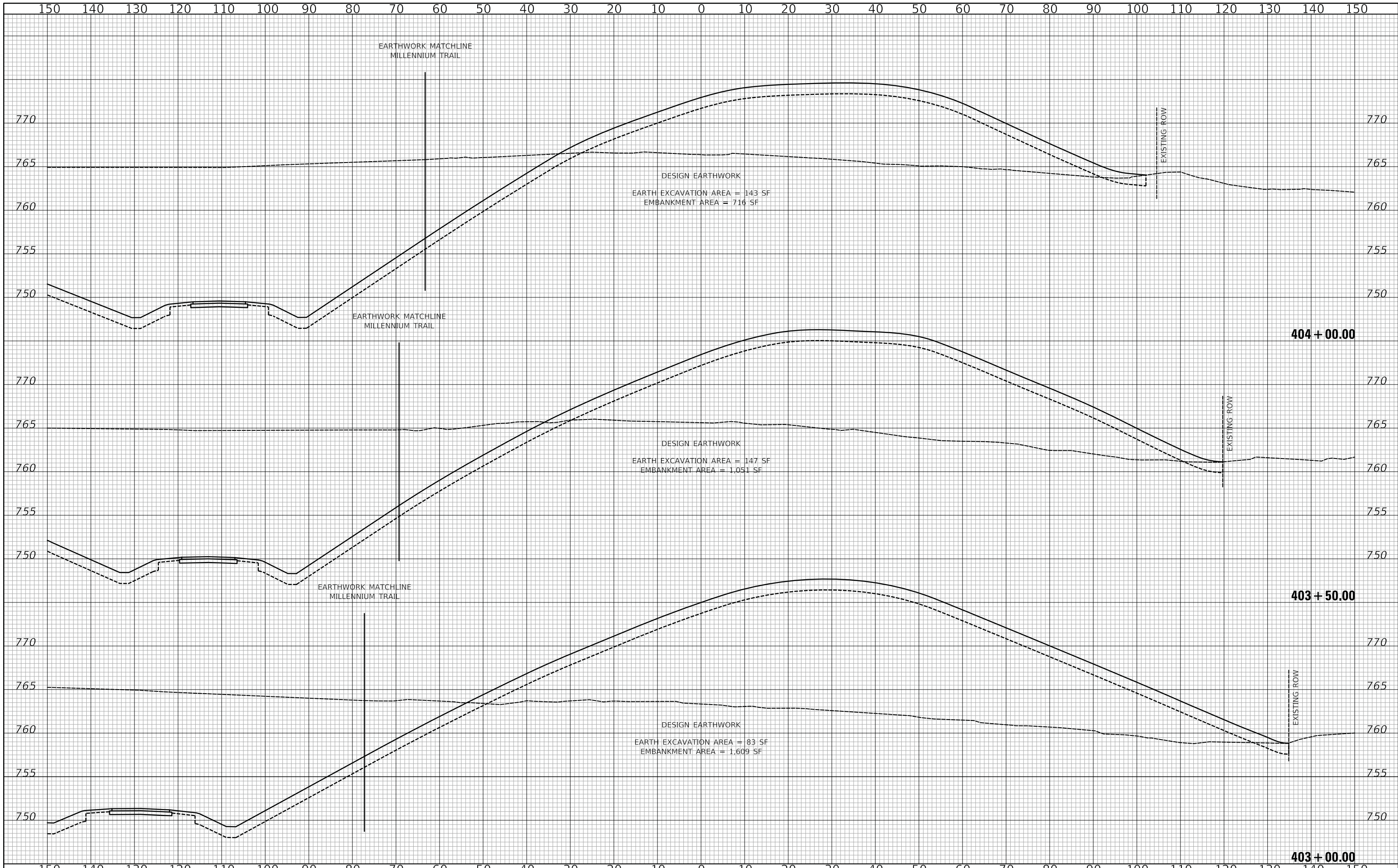
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - WEST BERM**

SHEET 2 OF 4 SHEETS STA. 401+50.00 TO STA. 402+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	137
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

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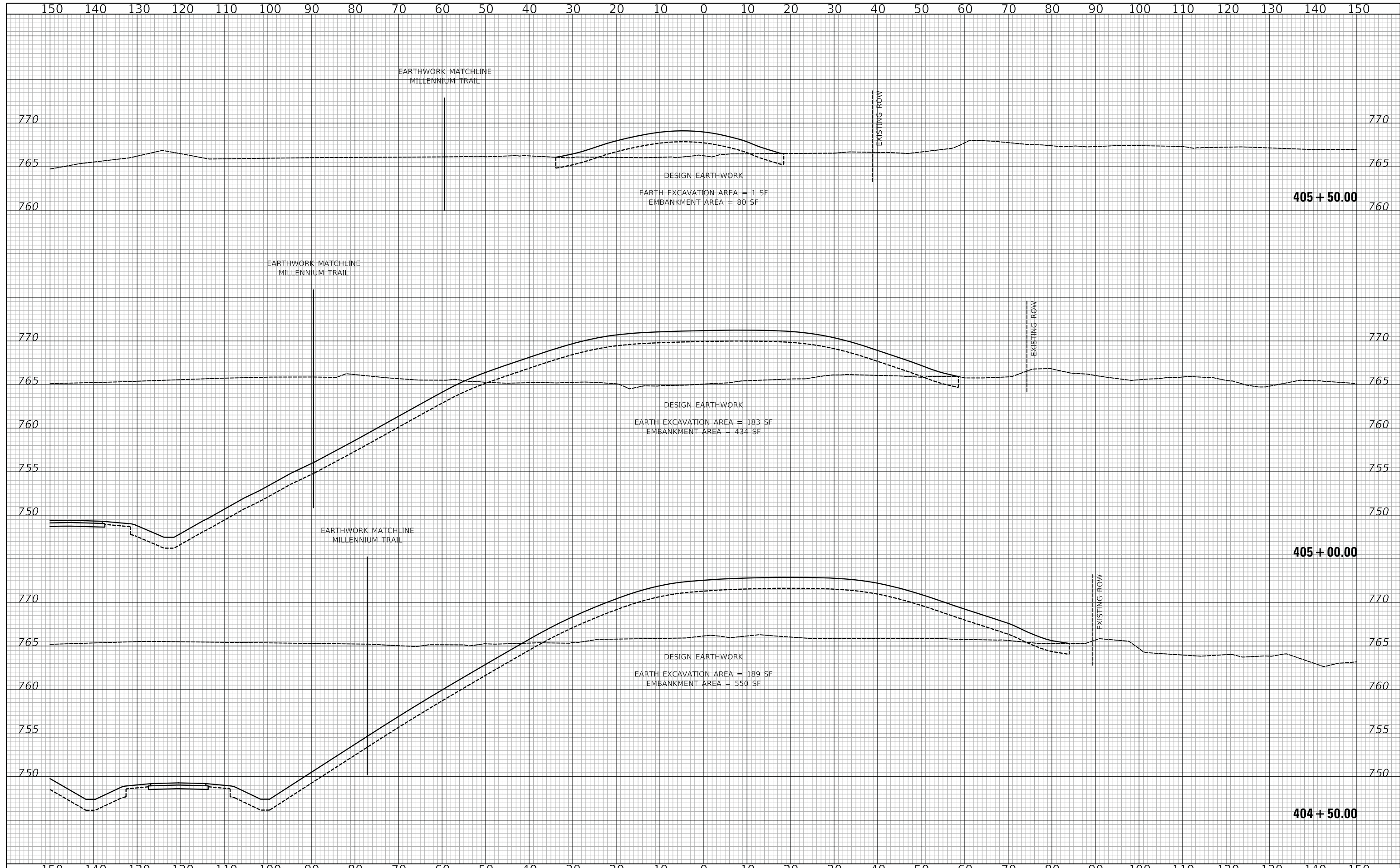
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - WEST BERM**

SHEET 3 OF 4 SHEETS STA. 403+00.00 TO STA. 404+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	138
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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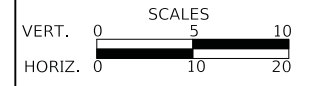
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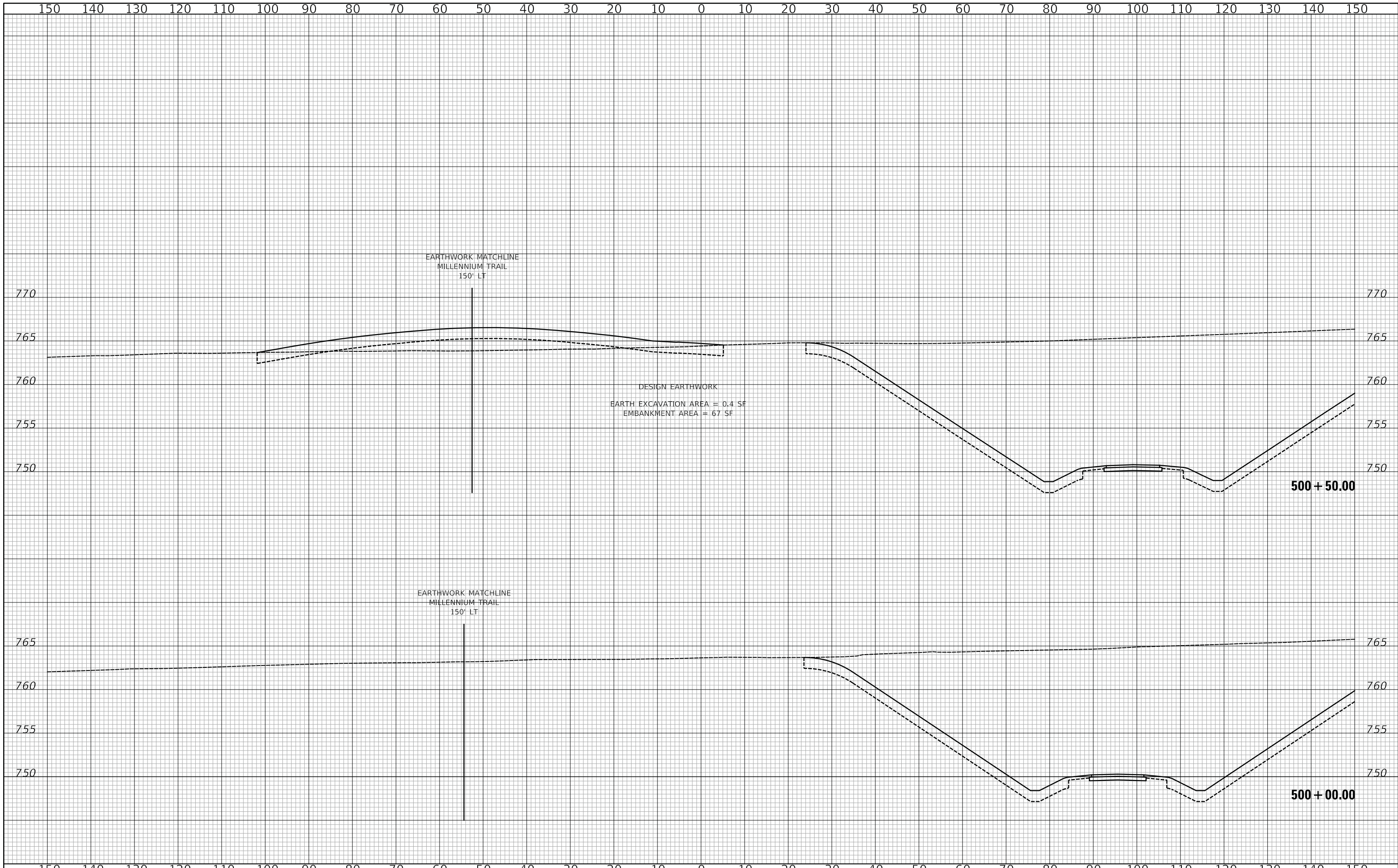
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - WEST BERM**

SHEET 4 OF 4 SHEETS STA. 404+50.00 TO STA. 405+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	139
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

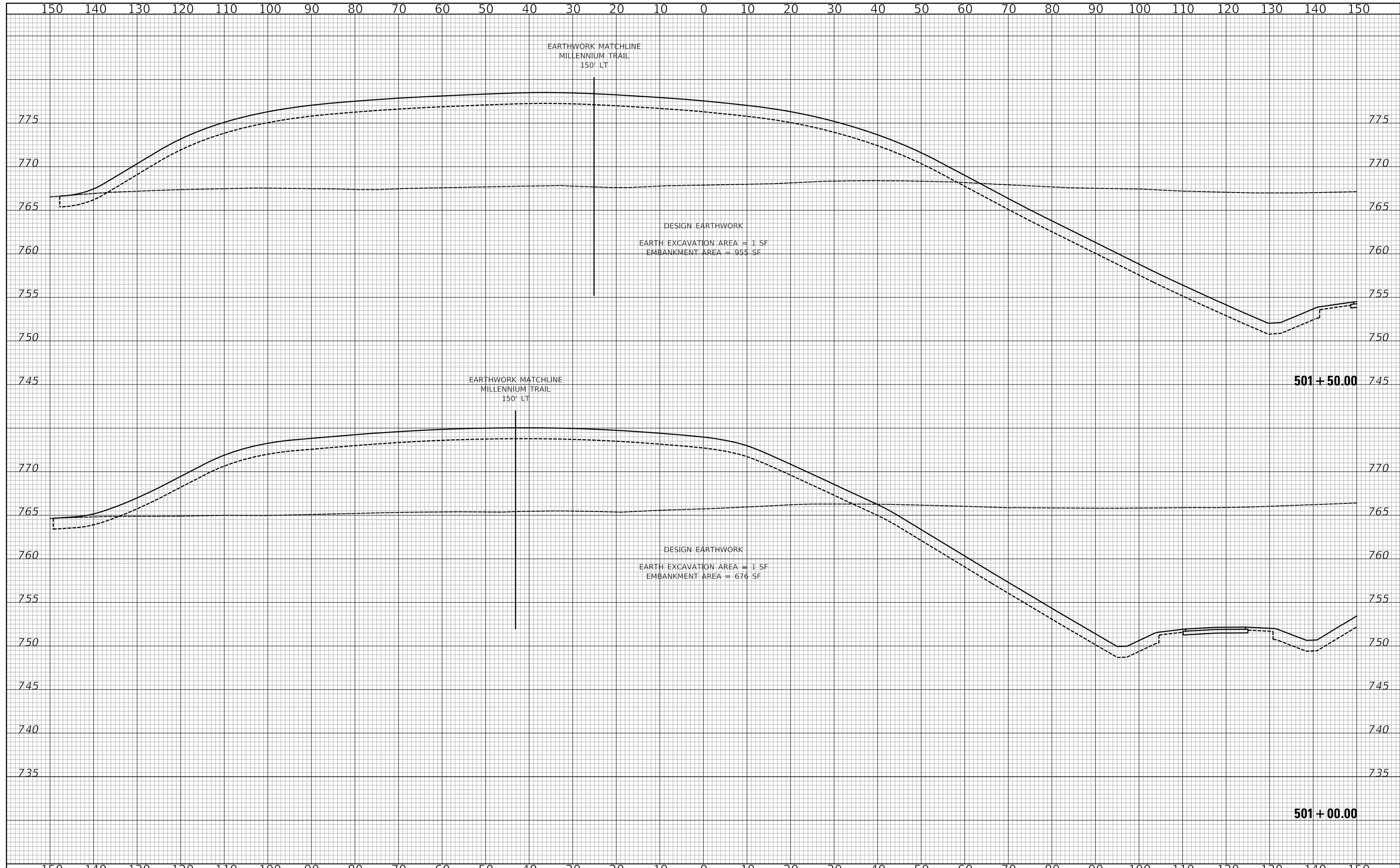


FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
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	AREAS CHECKED	

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

DATE	
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FINAL SURVEY	
NOTE BOOK	
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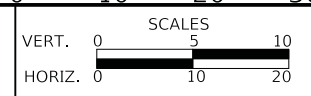
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



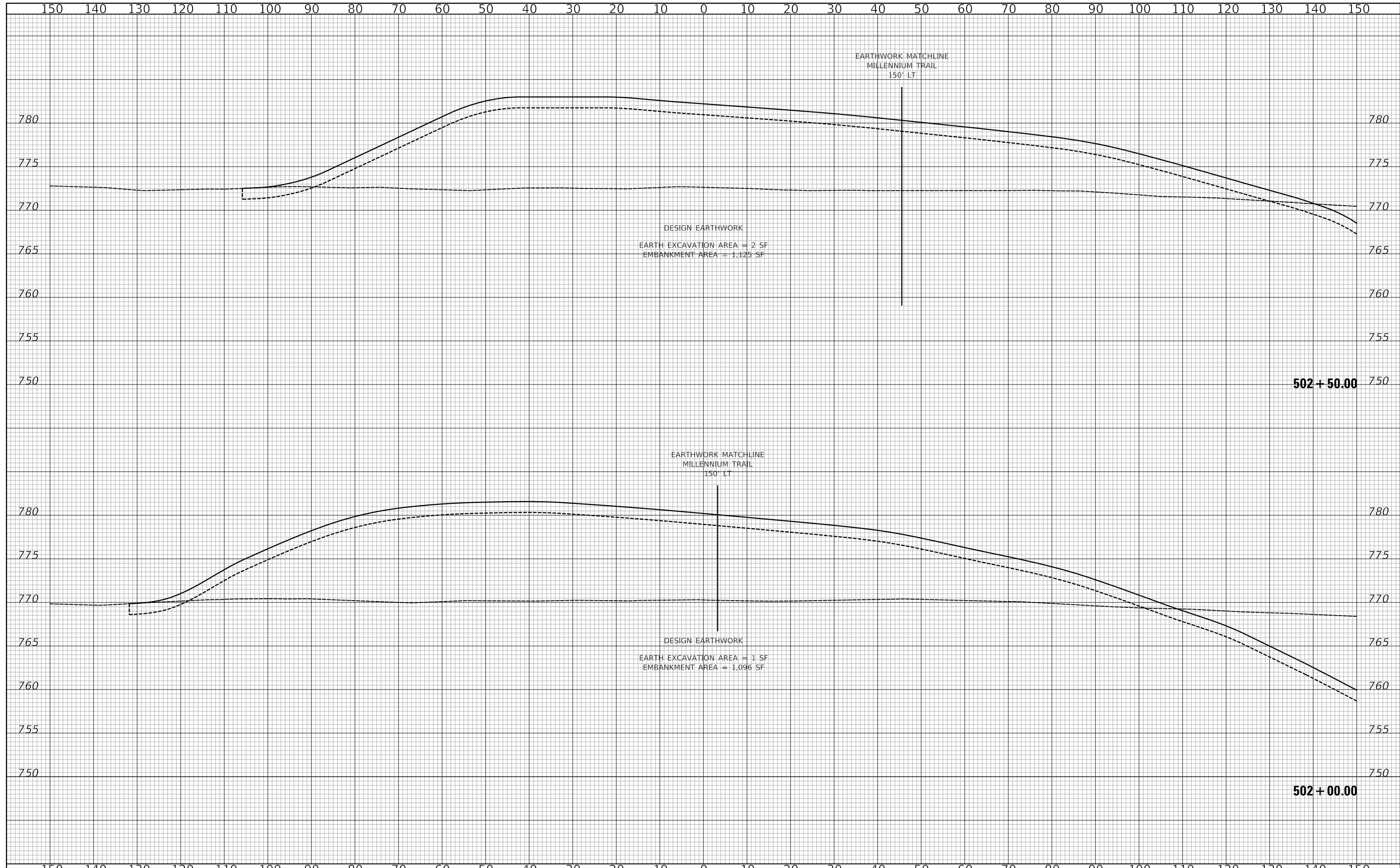
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CROSS SECTIONS - EAST BERM**

SHEET 2 OF 7 SHEETS STA. 501+00.00 TO STA. 501+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	141
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G65	

DATE	
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FINAL SURVEY	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

VERT. 0 5 10  
 HORIZ. 0 10 20

SCALES

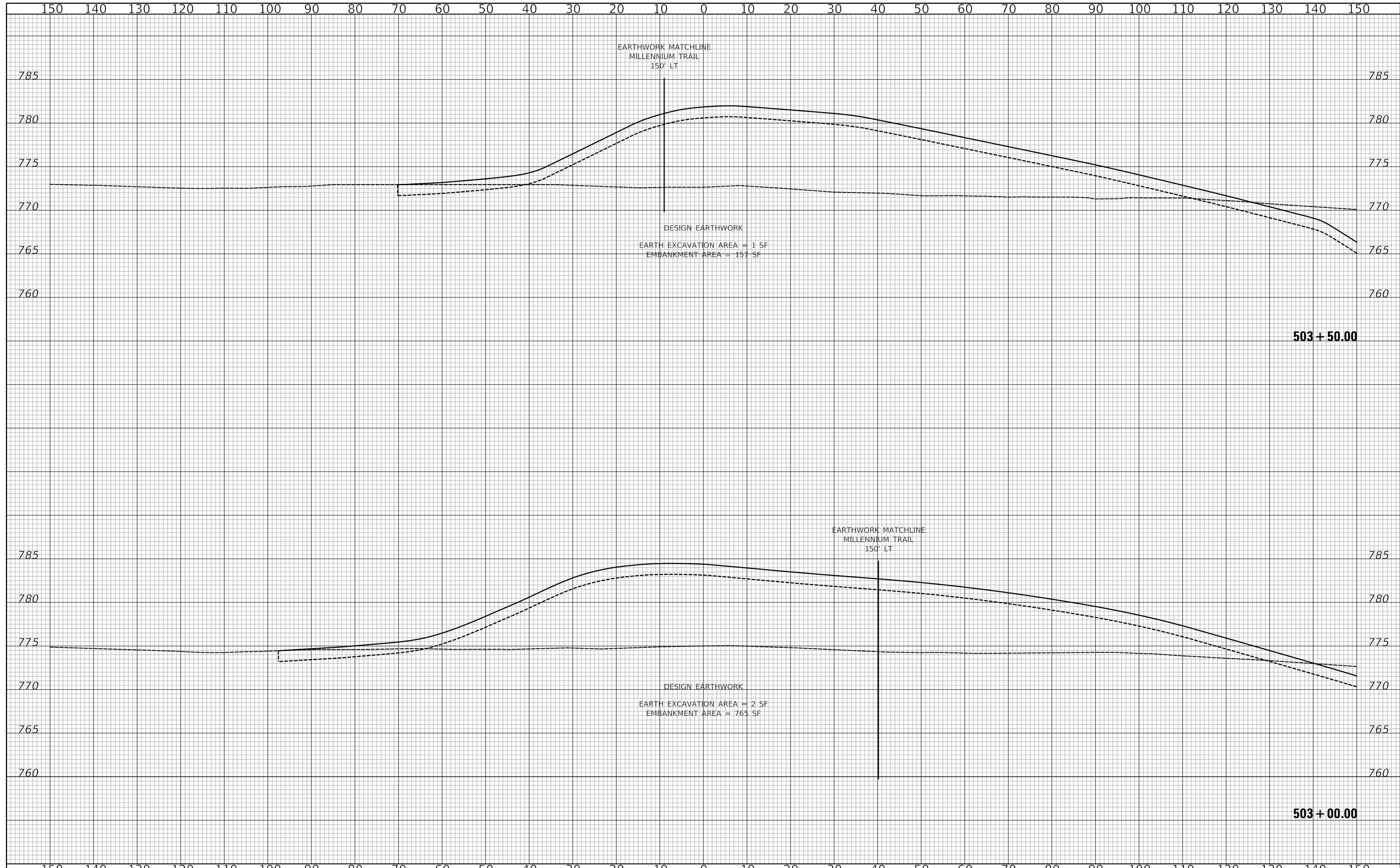
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - EAST BERM**

SHEET 3 OF 7 SHEETS STA. 502+00.00 TO STA. 502+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	142
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1				ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

VERT. 0 5 10  
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SCALES

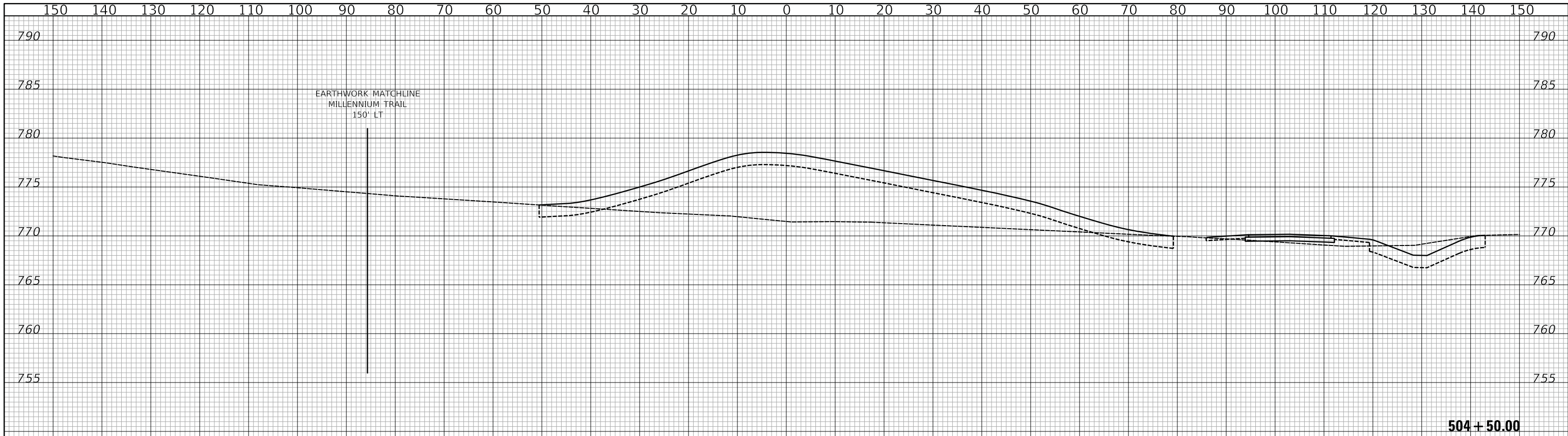
**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - EAST BERM**

SHEET 4 OF 7 SHEETS STA. 503+00.00 TO STA. 503+50.00

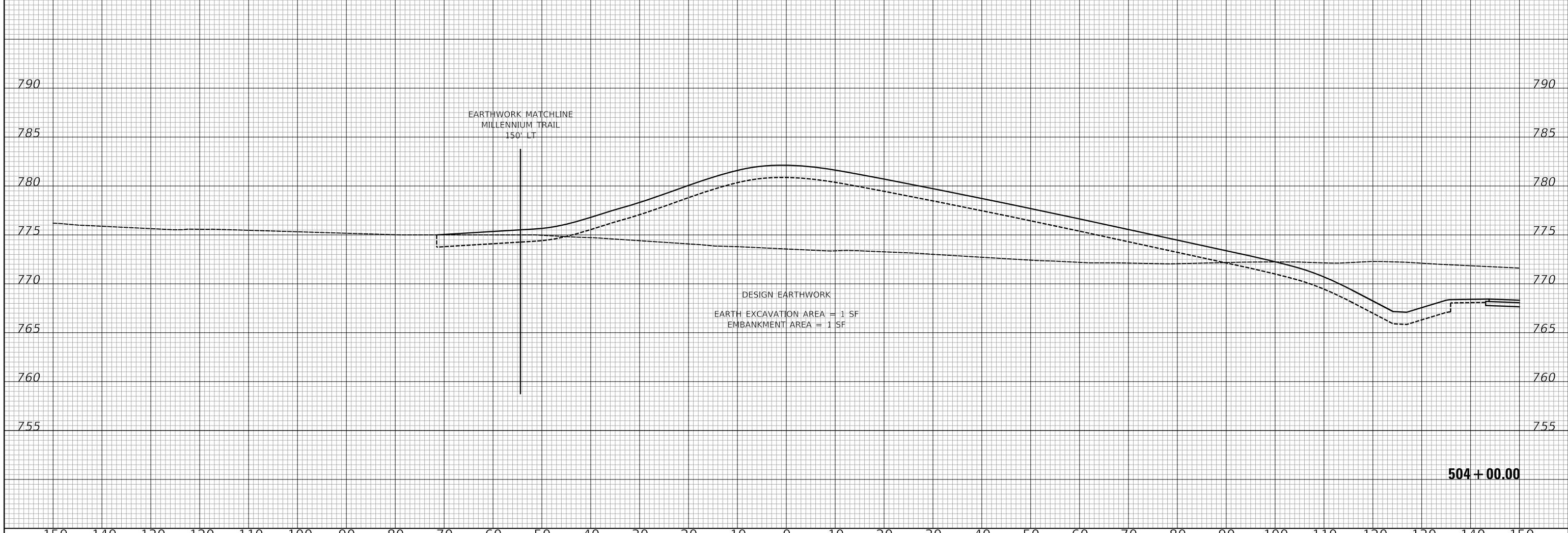
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	143
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
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**504 + 50.00**



**504 + 00.00**



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SCALES

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
CROSS SECTIONS - EAST BERM**

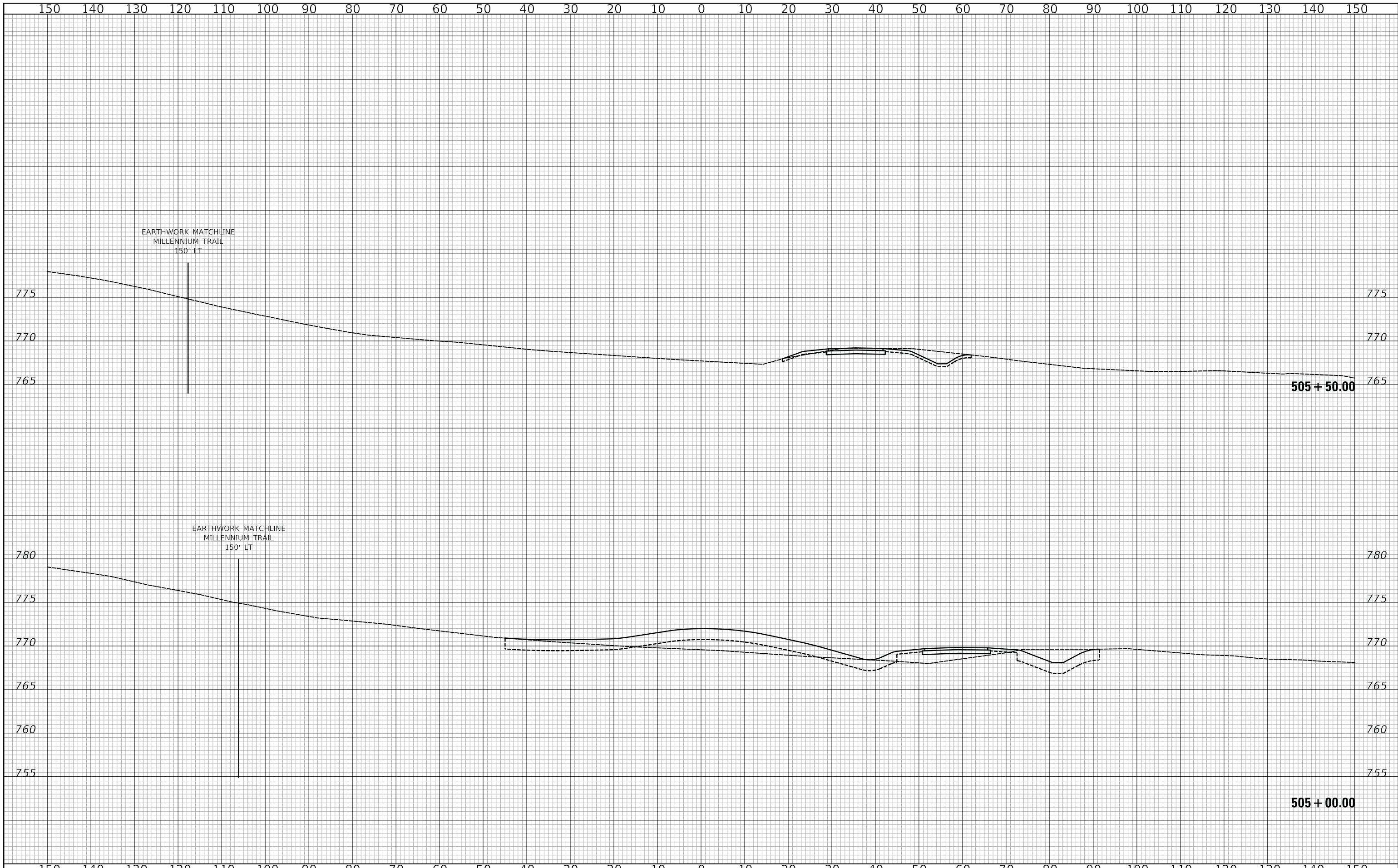
SHEET 5 OF 7 SHEETS STA. 504+00.00 TO STA. 504+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	144
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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**STATE OF ILLINOIS**  
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VERT.	0	5	10
HORIZ.	0	10	20

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL**  
**CROSS SECTIONS - EAST BERM**

SHEET 6 OF 7 SHEETS STA. 505+00.00 TO STA. 505+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	145
				CONTRACT NO. 61G65
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY NO.	SURVEYED	BY	DATE
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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VERT.	0	5	10
HORIZ.	0	10	20

**US ROUTE 45 UNDERPASS AND MILLENNIUM TRAIL  
 CROSS SECTIONS - EAST BERM**

SHEET 7 OF 7 SHEETS STA. 505+63.44 TO STA. 505+63.44

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0334	16-F3000-05-BT	LAKE	146	146
CONTRACT NO. 61G65				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				