

04-25-2025 LETTING ITEM 011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	1
ILLINOIS CONTRACT NO. 61K44				

61K44

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN
WILL COUNTY

DESIGN DESIGNATION
BIKE TRAIL

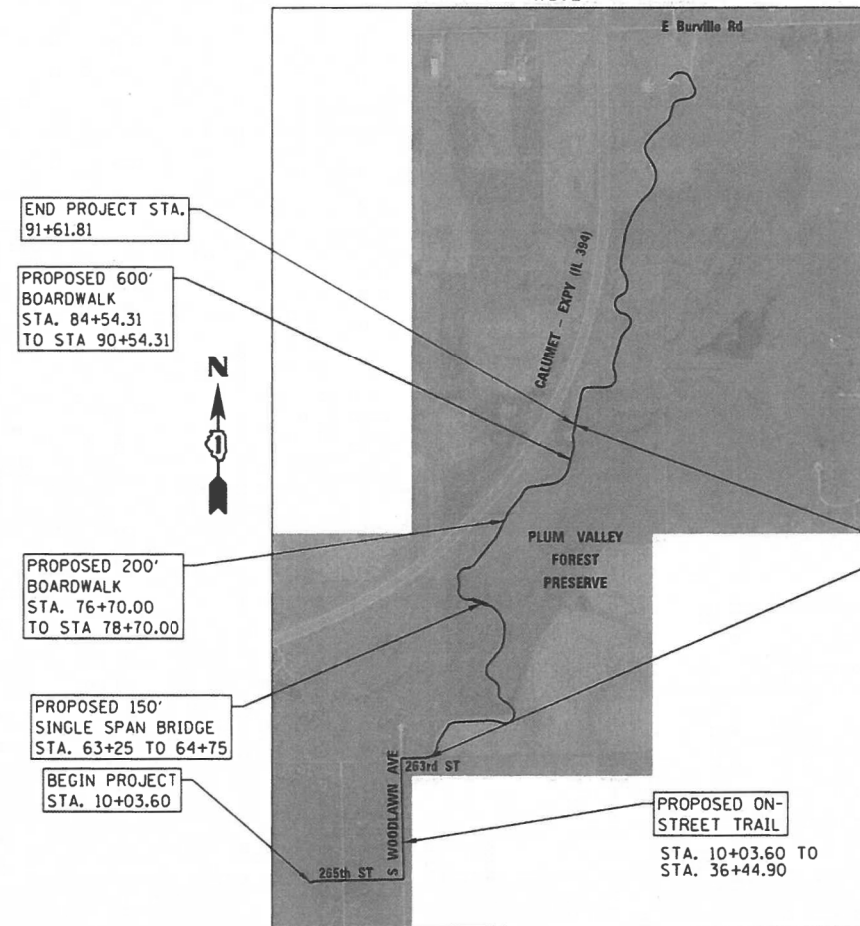
DESIGN SPEED LIMIT
20 M.P.H.

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

PLUM CREEK GREENWAY TRAIL SEGMENT 3
SECTION 20-F3000-06-BT
PROJECT L7MD(600)
FOREST PRESERVE DISTRICT OF WILL COUNTY
WILL COUNTY

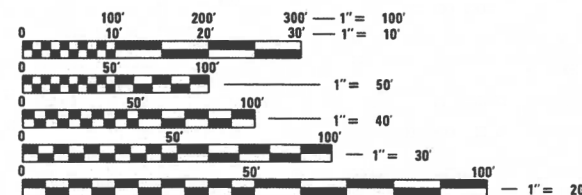
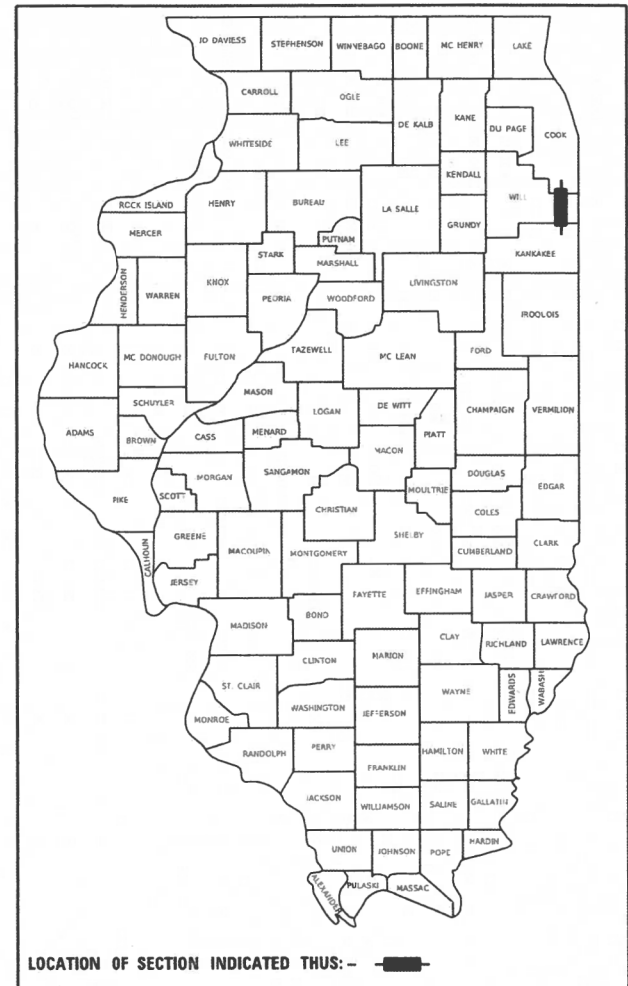
C-91-176-24

R 14 E



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 8,158.21 FT. = 1.55 MILE



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 EXCAVATORS
1-800-892-0123
OR 811

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

AGENCY RESPONSIBLE FOR LETTING

APPROVED FEBRUARY 4, 2025
[Signature]
FOREST PRESERVE DISTRICT OF WILL COUNTY

PASSED FEB 14, 2025
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID
BASED ON
LIMITED REVIEW Feb 20 25
[Signature]
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



DATE: 2-12-25
DAVID LANDEWEER, P.E.
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 062.042363 EXPIRES 11-30-25

CONTRACT NO. 61K44

INDEX OF SHEETS

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DISTRICT 1 DETAILS

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000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424026-04	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15’ AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15’ TO 24” FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15’ TO 24” FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATION OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE “STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION”, ADOPTED JANUARY 1, 2022; THE LATEST EDITION OF THE “ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS” (IMUTCD), THE “DETAILS” IN THE PLANS, AND THE “SPECIAL PROVISIONS” INCLUDED IN THE CONTRACT DOCUMENTS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT.
3. THE CONTRACTOR SHALL LIMIT HIS/HER CONSTRUCTION ACTIVITIES TO THE WORK AREAS DESIGNATED ON THE PLANS. ANY DAMAGE TO AREAS OUTSIDE OF THESE LIMITS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
4. THE CONTRACTOR SHALL NOTIFY THE FOREST PRESERVE DISTRICT OF WILL COUNTY REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK AND COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
5. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. IF EXISTING SIGNS ARE DAMAGED DURING THE REMOVAL AND REPLACEMENT PROCESS, THE SIGN SHALL BE REPLACED.
6. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS.
7. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE 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 UNSTABLE 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 THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER ROADWAY PROJECTS WITHIN THE AREA THAT ARE UNDER CONSTRUCTION AT THE SAME TIME.
9. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM 72 HOURS IN ADVANCE OF BEGINNING WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PROTECTION OF ALL EXISTING PUBLIC OR PRIVATE ROADWAYS, STRUCTURES, AND UTILITIES PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAID ROADWAYS, STRUCTURES, AND UTILITIES. ANY ROADWAY, STRUCTURE, OR UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
11. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
12. STATION, OFFSETS, AND ELEVATIONS FOR PRECAST FLARED END SECTIONS ARE GIVEN FOR THE PIPE END OF THE FLARED END SECTION.

GENERAL NOTES

UTILITIES

1. ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING BUT NOT LIMITED TO SANITARY AND STORM SEWERS, WATER MAINS AND THEIR RESPECTIVE SERVICE LINES, SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UNDERGROUND FACILITIES REPRESENTS ONLY THE OPINION OF THE ENGINEER, AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL UTILITIES AS NECESSARY, PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHLL NOTIFY J.U.L.I.E. AT (800) 892-0123, AND ALL PUBLIC AND PRIVATE UTILITIES BEFORE STARTING CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

SOIL EROSION AND SEDIMENT CONTROLS

1. SOIL EROSION AND SEDIMENT CONTROL (SESC) FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AT A MINIMUM ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE MAINTAINED ON THE SITE AT ALL TIMES.
3. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. ALL ADDITIONAL MEASURES MUST BE IN PLACE WITHIN 3 DAYS OF DISTURBANCE AND ANY EMERGENCY SESC MEASURES MUST BE INSTALLED IMMEDIATELY.
4. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREAS AS THE PROJECT PROGRESSES, AND INSTALL TEMPORARY OR PERMANET EROSION PROTECTION TO CONTROL SOIL EROSION, OR INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL.
5. ACCESS TO THE WORK AREA WILL ONLY BE ALLOWED FROM STABILIZED CONSTRUCTION ENTRANCES WHERE SHOWN ON THE PLAN. ANY SOIL REACHING PUBLIC OR PRIVATE ROADWAYS MUST BE REMOVED IMMEDIATELY.
6. DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G. STONE), SEDIMENT FILTER BAG, OR BOTH. ADEQUATE EROSION AND SEDIMENT CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. DE-WATERING SEDIMENT LADEN WATER DIRECTLY INTO FIELD TILES, STORM WATER STRUCTURES, OR “WATERS OF THE US” IS PROHIBITED.
7. CONSTRUCTION ACTIVITIES MUST BE SCHEDULED TO MINIMIZE THE TIME SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE WILL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) DAYS PRIOR TO THE INITATION OF IMPROVEMENTS.
8. ALL DISTURBED SOILS ARE TO BE STABILIZED, TEMPORARILY OR PERMANENTLY, WITHIN SEVEN (7) DAYS OF CONSTRUCTION ACTIVITY HAVING CEASED IF THE SOIL IS TO REMAIN UNDISTURBED FOR MORE THAN FOURTEEN (14) DAYS.
9. THE CONTRACTOR SHALL COORDINATE WITH AND OBTAIN ANY NECESSARY PERMITS FROM THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT.

COMMITMENTS

1. HEAVY EQUIPMENT SHALL ONLY UTILIZE DESIGNATED ACCESS PATHS AND REMAIN ON DESIGNATED SURFACES TO THE EXTENT PRACTICABLE.
2. SILT FENCING SHALL BE USED AND TRENCHED IN 6 INCHES BELOW GROUND SURFACE.
3. ANY AND ALL MATTING USED ON SITE SHALL BE CLEANED AND WEED SEED FREE PRIOR TO PLACEMENT.
4. ALL APPROPRIATE SWPPP AND EROSION CONTROL MEASURES SHALL BE USED AND MAINTAINED IN GOOD ORDER THROUGHOUT THE CONSTRUCTION PROCESS.
5. ANY AREAS DISTURBED BY ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION SHALL BE RESTORED TO ORIGINAL GROUND CONTOURS AND SEEDED WITH AN APPROPRIATE MIX AS SOON AS PRACTICABLE.

MODEL NAME:MMF5
FILE NAME:ST1E15



USER NAME = SUSERS	DESIGNED - MIA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - DDL	REVISED -
PLOT DATE = \$DATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
INDEX OF SHEETS, GENERAL NOTES AND STANDARDS

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	2
CONTRACT NO. 61K44				
		ILLINOIS	FED. AID PROJECT	

• SPECIALTY ITEM

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 FED 80/LA 20	BRIDGE 0028 FED 80/LA 20
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	746	746	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	542	542	
	20101000	TEMPORARY FENCE	FOOT	170	170	
•	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	35	35	
•	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	35	35	
	20200100	EARTH EXCAVATION	CU YD	1140	1140	
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	860	860	
	20400800	FURNISHED EXCAVATION	CU YD	3940	3940	
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3938	3938	
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	5134	5134	
	21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQ YD	130	130	
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	5910	5910	
*	25000115	SEEDING, CLASS 1B	ACRE	0.25	0.25	
*	25000310	SEEDING, CLASS 4	ACRE	2.25	2.25	

MODEL SHEET NAMES
FILE NAMES: STYLES



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PLOT DATE = S\$DATE\$	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	3
			CONTRACT NO.61K44	
			ILLINOIS FED. AID PROJECT	

• SPECIALTY ITEM

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 FED 80/LA 20	BRIDGE 0028 FED 80/LA 20
*	25000324	SEEDING, CLASS 5B	ACRE	0.25	0.25	
*	25000750	MOWING	ACRE	1.00	1.00	
*	25200200	SUPPLEMENTAL WATERING	UNIT	25	25	
	28000305	TEMPORARY DITCH CHECKS	FOOT	128	128	
	28000400	PERIMETER EROSION BARRIER	FOOT	7178	7178	
	28100107	STONE RIPRAP, CLASS A4	SQ YD	298		298
	28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	42	42	
	28200200	FILTER FABRIC	SQ YD	340	42	298
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	860	860	
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	24	24	
	35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	6547	6547	
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	9175	9175	
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1835	1835	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	168	168	

MODEL SHEET NAMES
FILE NAMES: STILES



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	4
CONTRACT NO.61K44				
ILLINOIS FED. AID PROJECT				

• SPECIALTY ITEM

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 FED 80/LA 20	BRIDGE 0028 FED 80/LA 20
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	431	431	
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	372	372	
	42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	200	200	
	42400800	DETECTABLE WARNINGS	SQ FT	40	40	
	44201690	CLASS D PATCHES, TYPE I, 4 INCH	SQ YD	100	100	
	44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	100	100	
	44201694	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	100	100	
	44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	100	100	
	50200100	STRUCTURE EXCAVATION	CU YD	487		487
	50300225	CONCRETE STRUCTURES	CU YD	21.8		21.8
	50300300	PROTECTIVE COAT	SQ YD	229		229
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	21.2		21.2
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6100		6100
	51200961	FURNISHING METAL SHELL PILES 16" X 0.312"	FOOT	184		184

MODEL: SMOELNAMES
FILE NAME: SFELE3



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3 SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
STA.		TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	5
CONTRACT NO.61K44				
		ILLINOIS	FED. AID PROJECT	

• SPECIALTY ITEM

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 FED 80/LA 20	BRIDGE 0028 FED 80/LA 20
	51202305	DRIVING PILES	FOOT	184		184
	51203200	TEST PILE METAL SHELLS	EACH	2		2
	51500100	NAME PLATES	EACH	1		1
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	26		26
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2	
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	10	10	
	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	
	542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	14	14	
	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	87	87	
	542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	18	18	
	58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	38		38
	58700300	CONCRETE SEALER	SQ FT	169		169
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	34		34
	60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	70		70

MODEL & MODEL NAMES
FILE NAME: ST113



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	6
			CONTRACT NO.61K44	
			ILLINOIS FED. AID PROJECT	

▪ SPECIALTY ITEM

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 FED 80/LA 20	BRIDGE 0028 FED 80/LA 20
	60600605	CONCRETE CURB, TYPE B	FOOT	31	31	
▪	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2380	2380	
▪	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	
▪	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
▪	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
▪	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	20	20	
	67100100	MOBILIZATION	L SUM	1	1	
▪	72000100	SIGN PANEL - TYPE 1	SQ FT	57.5	57.5	
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
▪	72900100	METAL POST - TYPE A	FOOT	188	188	
▪	73000100	WOOD SIGN SUPPORT	FOOT	69	69	
▪	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	64	64	
▪	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2937	2937	

MODEL: SHOE1.NAMES
FILE NAME: SH1E13



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	7
			CONTRACT NO.61K44	
			ILLINOIS FED. AID PROJECT	

▪ SPECIALTY ITEM

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0028 FED 80/LA 20	BRIDGE 0028 FED 80/LA 20
▪	A2006512	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
▪	A2007112	TREE, QUERCUS RUBRA (RED OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
	K1005418	TEMPORARY SEEDING	ACRE	3. 50	3. 50	
▪	K1005421	SEEDING (SPECIAL)	ACRE	0. 75	0. 75	
	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	1800		1800
	X0326806	WASHOUT BASIN	L SUM	1	1	
	X0327997	TRASH RECEPTACLES	EACH	2	2	
	X2011001	HIGH VISIBILITY TEMPORARY FENCING	FOOT	1150	1150	
▪	X2510900	TURF REINFORCEMENT MAT (SPECIAL)	SQ YD	356	356	
▪	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	13324	13324	
	X6640104	FENCE REMOVAL	FOOT	31	31	
▪	X6640624	RUSTIC RAIL FENCE	FOOT	192	192	
	X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	

MODEL & MODEL NAMES
FILE NAME: ST113



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	DRAWN - JS	REVISED -
PLOT SCALE = \$SCALES	CHECKED - DDL	REVISED -
PLOT DATE = \$DATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	8
		CONTRACT NO.61K44		
ILLINOIS		FED. AID PROJECT		

[illegible]

■■ CONSTRUCTION CODE 0042		
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	DRAWN - JS	REVISED -
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DATE = \$DATES	DATE - 2-12-25	REVISED -

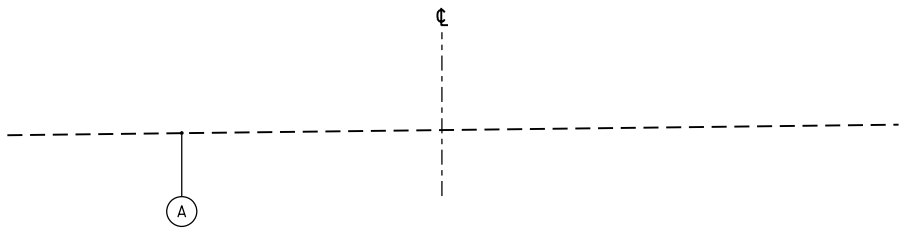
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLUM CREEK GREENWAY TRAIL SEGMENT 3 SUMMARY OF QUANTITIES				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

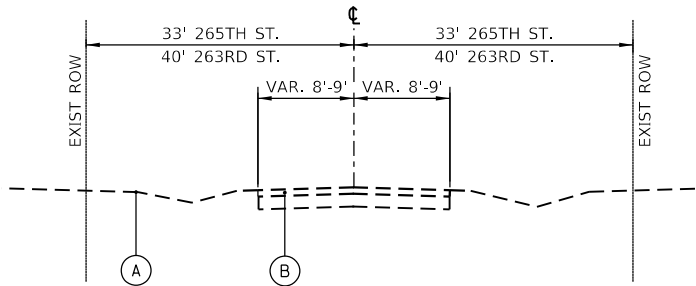


TERRA
ENGINEERING LTD.

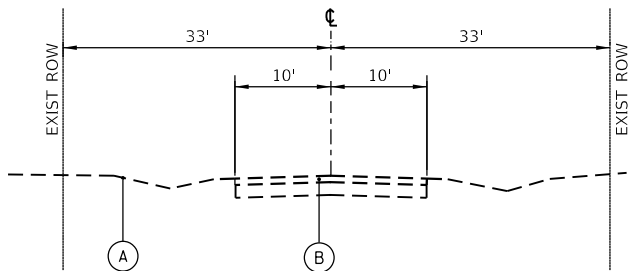
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FILE NAME: \$FILE\$



EXISTING TYPICAL SECTION
STATION 10+03.60 TO 10+58.70
STATION 72+00 TO 90+54.3



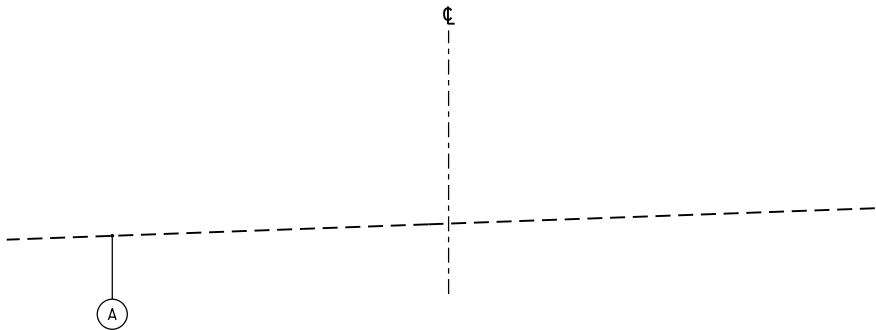
EXISTING TYPICAL SECTION
265th ST. AND 263rd ST.
STATION 10+58.70 TO 13+51.00
STATION 33+61.00 TO 36+44.90



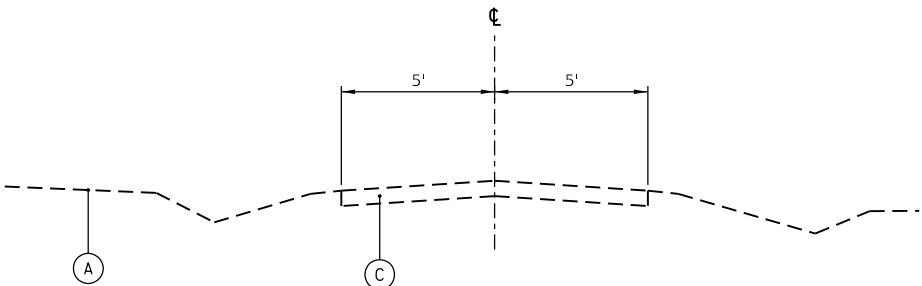
EXISTING TYPICAL SECTION
265TH ST. AND S. WOODLAND AVE
STATION 13+51.00 TO 33+61.00

LEGEND

- (A) EXISTING GROUND
- (B) EXISTING ASPHALT PAVEMENT
- (C) EXISTING AGGREGATE PATH
- (1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
- (2) TOPSOIL FURNISH AND PLACE, 6" (21101625)
- (3) TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH (21101600)
- (4) SEEDING, CLASS 1B (25000115)
- (5) SEEDING, CLASS 4 (25000310)
- (6) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5" (40604060)
- (7) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2" (40604060)
- (8) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5" (40603080)
- (10) AGGREGATE BASE COURSE, TYPE B 8" (35102000)
- (11) PROPOSED ON - STREET TRAIL SIGN
- (12) LIMESTONE SCREENING SURFACE, 2" (XX007606)
- (13) SEEDING (SPECIAL) (K1005421)



EXISTING TYPICAL SECTION
STATION 36+44.90 TO 72+00.00



EXISTING TYPICAL SECTION
STATION 90+54.30 TO 91+61.81

MODEL: MODEL NAMES
FILE: DRAWING: STYLES

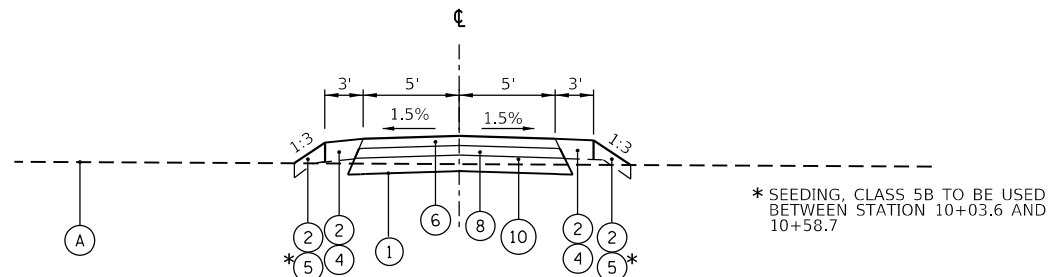


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	DRAWN - JS	REVISED -
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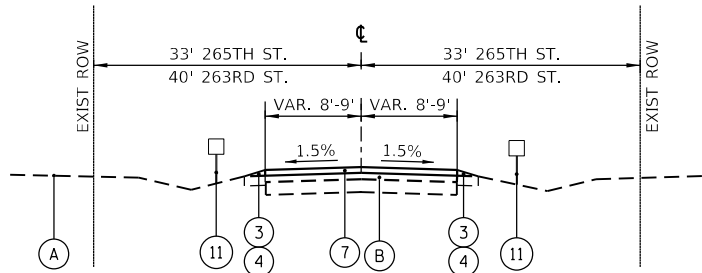
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3 TYPICAL SECTIONS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

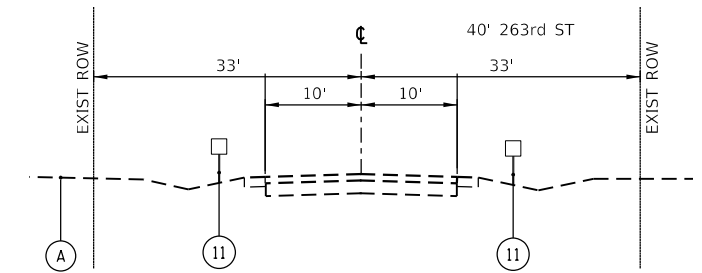
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	10
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



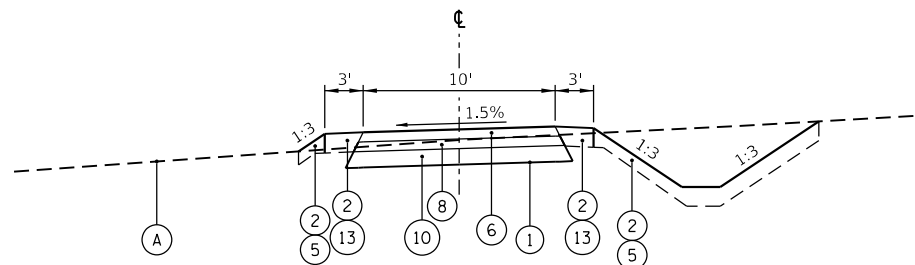
PROPOSED TYPICAL SECTION
STATION 10+03.60 TO 10+58.70



PROPOSED TYPICAL SECTION
265th ST, AND 263rd ST.
STATION 10+58.70 TO 13+51.00
STATION 33+61.00 TO 36+44.90



PROPOSED TYPICAL SECTION
265TH AND S. WOODLAND AVE
STATION 13+51.00 TO 33+61.00



PROPOSED TYPICAL SECTION
STATION 36+44.90 TO 64+90

LEGEND

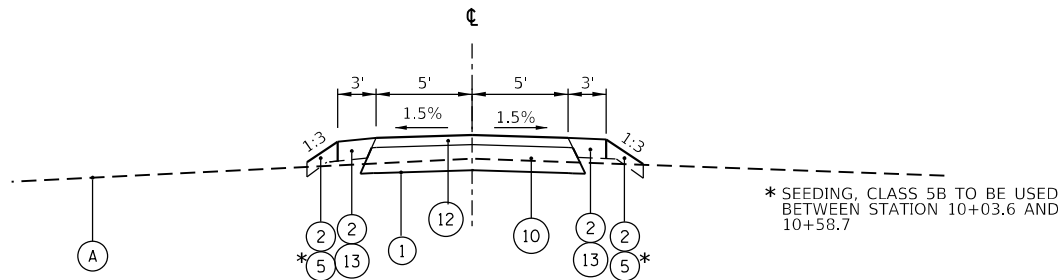
- (A) EXISTING GROUND
- (B) EXISTING ASPHALT PAVEMENT
- (C) EXISTING AGGREGATE PATH
- (1) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
- (2) TOPSOIL FURNISH AND PLACE, 6" (21101625)
- (3) TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH (21101600)
- (4) SEEDING, CLASS 1B (25000115)
- (5) SEEDING, CLASS 4 (25000310)
- (6) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5" (40604060)
- (7) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2" (40604060)
- (8) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5" (40603080)
- (10) AGGREGATE BASE COURSE, TYPE B 8" (35102000)
- (11) PROPOSED ON - STREET TRAIL SIGN
- (12) LIMESTONE SCREENING SURFACE, 2" (XX007606)
- (13) SEEDING (SPECIAL) (K1005421)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE

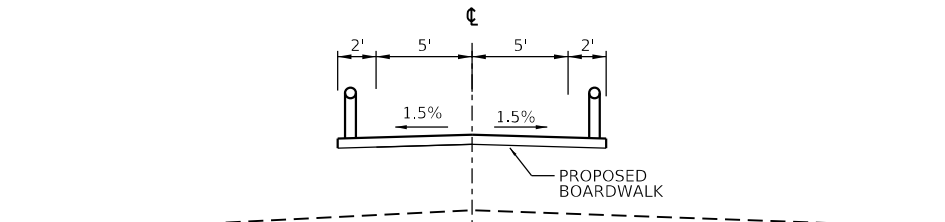
	MIXTURE	AIR VOIDS @ NDES	QMP
HMA PATH	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1.5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"	4% @ 50 GYR 4% @ 50 GYR	LR1030-2 LR1030-2
ROADWAY RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 2"	4% @ 50 GYR	LR1030-2
PATCHING	CLASS D PATCH (HMA BINDER IL-19.0)	4% @ 50 GYR	LR1030-2
QMP DESIGNATION	QUALITY CONTROL / QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

HMA NOTES:

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQYD/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 RECLAIMED MATERIALS SPECIFICATION



PROPOSED TYPICAL SECTION
STATION 64+90 TO 76+70
STATION 78+70 TO 84+54.31
STATION 90+54.31 TO 91+61.81



PROPOSED TYPICAL SECTION
STATION 76+70 TO 78+70
STATION 84+54.31 TO 90+54.31

MODEL: MODEL NAMES
FILE: DRAWING: STYLES



USER NAME = SUSERS	DESIGNED - MIA	REVISED -
PLOT SCALE = 5SCALES	DRAWN - JS	REVISED -
PLOT DATE = 5DATES	CHECKED - DDL	REVISED -
	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	11
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL, MODEL NAMES
FILE, DRAWING, SHEETS

TREE REMOVAL					
			20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)	20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)	NOTE
STATION	OFFSET	RT/LT	UNIT	UNIT	
36+88.13	4.6'	LT	7		
36+89.31	9.2'	LT	8		
36+91.73	7.8	LT		18	
36+94.66	8.7	LT	6		
55+57.70	12.1	LT		22	
55+83.16	10.3'	LT		23	
56+74.28	5.2'	LT		18	
56+77.97	7.9'	LT		20	
57+39.21	8.7'	LT		18	
57+46.12	7.8'	LT		21	
58+29.08	2.5'	LT		28	
58+70.23	3.0'	LT		15	
59+67.67	4.5'	LT		24	
61+11.73	7.5'	LT	12		DEAD
61+39.78	12.9'	LT	6		DEAD
61+90.08	0.5'	LT	6		
62+23.85	5.3'	LT	7		
62+30.82	0.1'	LT	9		
62+44.70	7.9'	LT	6		DEAD
62+61.08	1.4'	LT	7		
62+70.91	9.1'	LT	6		
64+65.41	17.0'	LT		20	
64+75.60	22.5'	LT	13		
64+77.32	24.5'	LT	7		
64+93.17	8.9'	LT	9		
64+93.62	7.6'	LT	12		
65+06.56	1.8'	LT	6		DEAD
65+19.51	14.0'	LT	6		DEAD
65+37.05	5.9'	LT		16	
65+67.98	10.0'	LT	13		
65+88.52	0.0'	LT	15		DEAD
66+07.97	11.7'	LT	10		
66+11.29	0.2'	LT	6		
66+22.11	19.1'	LT	15		
66+31.37	5.6'	LT	15		
66+33.81	25.7'	LT	10		
66+43.99	3.2'	LT	12		DEAD
66+48.57	13.3'	LT	11		
66+51.87	10.6'	LT	11		
66+71.19	7.0'	LT	6		
66+87.07	7.3'	LT	6		
66+96.21	16.7'	LT	9		
67+06.47	22.2'	LT	7		
67+30.33	12.8'	LT	6		
67+59.13	9.1'	LT	7		
67+99.13	16.3'	LT	6		
68+00.05	15.1'	LT	8		
68+56.89	19.9'	LT	6		
68+57.87	11.8'	LT	6		
68+78.38	2.2'	LT	13		
68+78.54	16.8'	LT	9		
77+61.23	3.3'	LT	11		
36+78.11	2.8'	RT	10		
36+99.33	5.8'	RT	8		
55+61.95	6.2'	RT		18	
55+66.45	7.6'	RT		18	
55+80.00	7.8'	RT		18	
55+83.67	12.4'	RT	12		DEAD
56+61.46	8.6'	RT		28	
56+74.17	14.1'	RT		18	
56+78.32	16.5'	RT	14		DEAD
57+06.81	20.8'	RT	8		
57+15.82	0.2'	RT	6		
57+37.91	5.2'	RT		21	
57+44.80	12.0'	RT		18	
57+63.44	19.7'	RT	15		
57+70.20	7.3'	RT		23	
57+78.84	17.6'	RT	6		DEAD

TREE REMOVAL					
			20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)	20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)	NOTE
STATION	OFFSET	RT/LT	UNIT	UNIT	
58+69.60	0.2'	RT	6		
58+94.69	8.4'	RT	7		
59+29.16	19.2'	RT	6		DEAD
59+28.90	16.3'	RT	7		DEAD
59+39.21	12.1'	RT	6		
59+93.05	22.0'	RT	6		DEAD
59+96.47	19.0'	RT	6		DEAD
60+25.33	3.0'	RT		24	
60+45.10	1.2'	RT		24	
60+50.06	10.4'	RT		24	
60+98.93	6.8'	RT	6		
61+29.23	12.8'	RT	6		
61+95.23	8.1'	RT	8		
62+56.04	2.3'	RT		20	
63+16.76	0.9'	RT		24	
63+27.94	29.4'	RT		21	
64+83.71	4.0'	RT	11		
64+93.40	4.0'	RT	7		DEAD
65+11.80	14.3'	RT	10		DEAD
65+35.23	11.0'	RT	15		
65+64.54	12.2'	RT	6		
65+89.13	21.7'	RT	13		
66+03.11	4.1'	RT	6		DEAD
66+11.10	35.4'	RT	13		
66+39.48	39.3'	RT	13		DEAD
66+41.67	38.9'	RT	6		DEAD
66+37.23	6.9'	RT	10		
66+51.60	4.1'	RT	10		
66+57.74	6.9'	RT	14		
66+71.40	23.4'	RT	6		DEAD
66+74.99	9.6'	RT	12		
66+79.95	40.9'	RT	7		
67+02.31	29.6'	RT	6		DEAD
67+05.43	25.1'	RT	6		
67+14.51	17.8'	RT	6		
67+17.18	18.8'	RT	9		
67+24.88	21.7'	RT	6		
67+30.68	17.9'	RT	6		
67+66.45	1.1'	RT	8		
68+59.01	8.7'	RT	8		
68+80.79	4.0'	RT	12		
68+81.68	12.6'	RT	12		
68+82.34	14.4'	RT	6		DEAD
77+86.68	1.9'	RT	8		
SUBTOTAL			746	542	

TEMPORARY FENCE AND PERIMETER EROSION BARRIER				
		20101000	28000400	X2011001
START STATION	END STATION	TEMPORARY FENCE	PERIMETER EROSION BARRIER	HIGH VISIBILITY TEMPORARY FENCING
	SIDE			
		FOOT	FOOT	FOOT
10+04 - 10+59	LT	15	85	40
10+04 - 10+59	RT	15	60	
36+45 - 53+50	LT	30	1700	50
36+45 - 53+50	RT	30		120
53+50 - PLUM CREEK	LT		1030	85
53+50 - PLUM CREEK	RT		295	65
PLUM CREEK - 72+00	LT		550	436
PLUM CREEK - 72+00	RT		723	354
72+00 - 87+00	LT	50	1460	
72+00 - 87+00	RT		1055	
87+00 - 104+00	LT	15	110	
87+00 - 104+00	RT	15	110	
TOTAL		170	7178	1150

TEMPORARY DITCH CHECKS		
		28000305
STATION	SIDE	TEMPORARY DITCH CHECKS
		FOOT
39+00	RT	8
41+60	RT	8
41+95	RT	8
45+00	RT	8
47+00	RT	8
48+45	RT	8
49+05	RT	8
51+50	RT	8
53+10	RT	8
53+50	RT	8
55+30	RT	8
55+70	RT	8
59+00	RT	8
61+00	RT	8
66+00	LT	8
68+50	LT	8
TOTAL		128

STONE DUMPED RIP RAP, CLASS A3		
		28100705
STATION	SIDE	STONE DUMPED RIP RAP, CLASS A3
		SQ.YD
10+39	LT	3
10+52	RT	3
41+80	LT	3
41+80	RT	3
48+83	LT	3
48+79	RT	3
53+30	RT	3
53+30	LT	3
55+50	LT	3
55+50	RT	3
69+00	LT	3
69+00	RT	3
70+50	LT	3
70+50	RT	3
TOTAL		42

EARTHWORK SCHEDULE

	EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) FURNISHED EX 20400800	TOPSOIL EXCAVATION (TOPSOIL EXCAVATION AND PLACEMENT) 21101505	TOPSOIL MATERIAL ADJUSTED FOR SHRINKAGE (15%)	TOPSOIL PLACEMENT, 6"	TOPSOIL PLACEMENT, VARIABLE DEPTH	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (TOPSOIL)
STATION TO STATION	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
10+03.6 10+58.7	0	0	0	0	41	35	15	0	20
36+44.9 PLUM CREEK	384	326	2583	-2257	3012	2560	1285	0	1275
PLUM CREEK 91+61.8	756	643	2325	-1682	2077	1765	671	0	1094
TEMPORARY ACCESS ROAD	0	0	0	0	4	3	0	0	3
265TH STREET	0	0	0	0	0	0	0	4	-4
263RD STREET	0	0	0	0	0	0	0	4	-4
	1,140	969	4,908	-3,939	5,134	4,363	1,971	8	2,384

QUANTITY OF TOPSOIL PLACEMENT PROVIDED FOR CONTRACTOR INFORMATION ONLY.

TOPSOIL THAT IS STRIPPED SHALL BE STOCKPILED, SORTED, AND REUSED FOR THE PROPOSED LANDSCAPING IMPROVEMENTS. THE ACTUAL REMOVAL DEPTH AND QUANTITY OF TOPSOIL REMOVAL SHALL BE VERIFIED IN THE FIELD. QUANTITY OF FURNISH AND PLACE TOPSOIL, 6" AND FURNISH AND PLACE TOPSOIL, VARIABLE DEPTH PROVIDED FOR BIDDING PURPOSES. QUANTITY TO BE USED, IF NEEDED, TO BE VERIFIED IN FIELD.



USER NAME = SUSERS	DESIGNED - MIA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = SCALES	CHECKED - DDL	REVISED -
PLOT DATE = SDATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3 SCHEDULE OF QUANTITIES				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					20-F3000-06-BT	WILL	88	12
							CONTRACT NO.61K44	
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID PROJECT	

MODEL SHOWN NAMES
FILE NAMES: STYLES



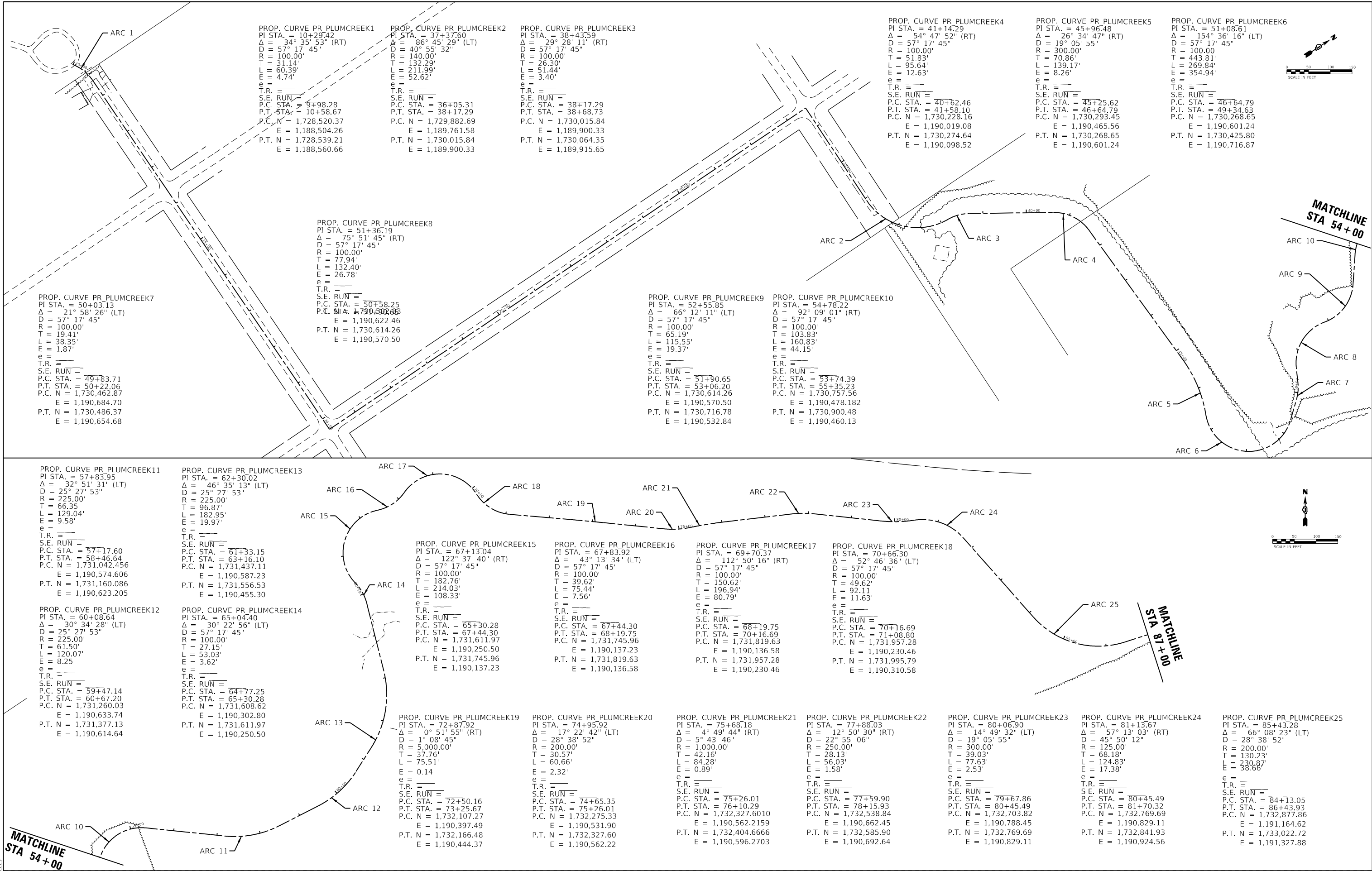
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DRAWN -	JS	REVISED -			
PLOT SCALE =	SSCALES	CHECKED -	DDL	REVISED -	
PLOT DATE =	SDATES	DATE -	2-12-25	REVISED -	

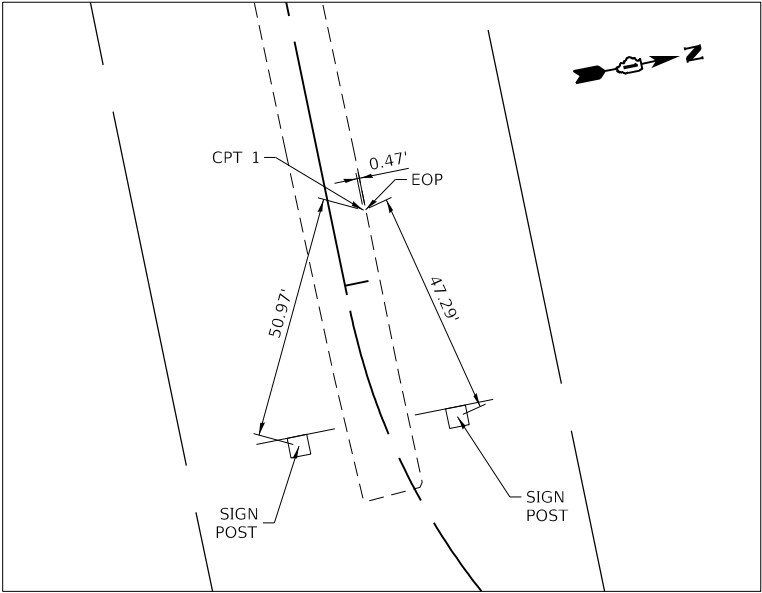
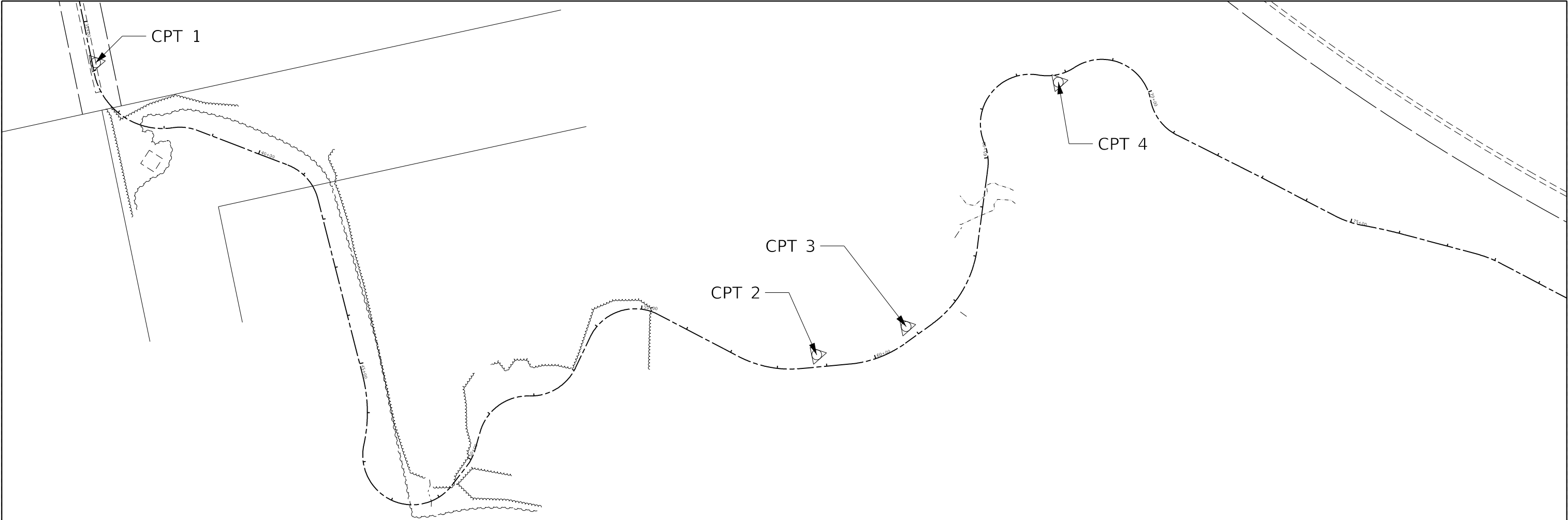
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
ALIGNMENT AND TIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	13
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

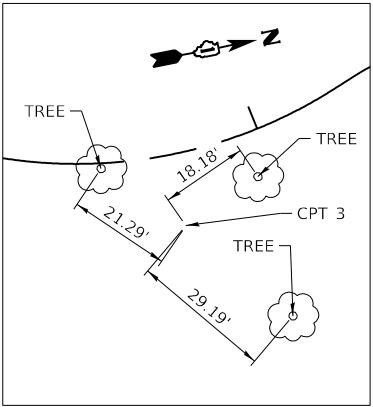




CONTROL POINT #1

SURVEY POINT

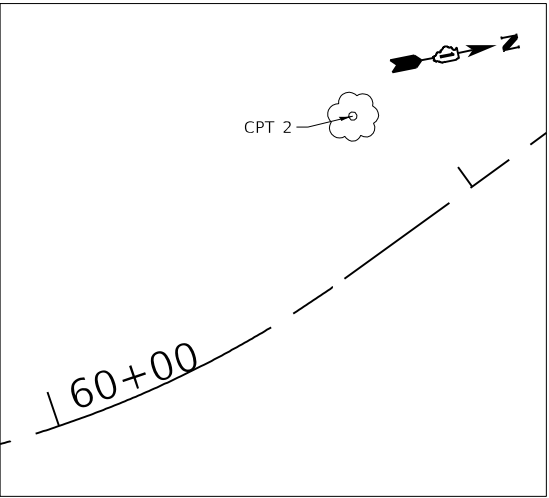
STA. 35+85.36, 6.96' LT
N 1,729,889.49
E 1,189,741.58
ELEV. 727.36



CONTROL POINT #2

SURVEY POINT

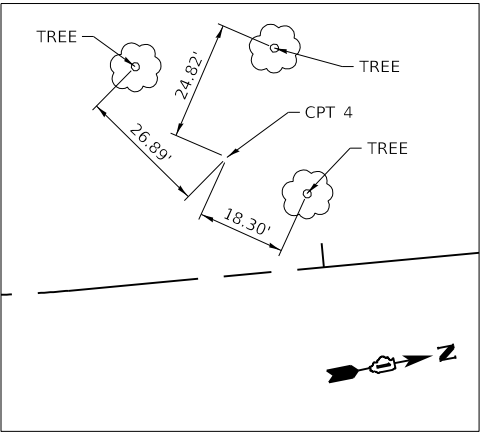
STA. 58+82.00, 15.14' RT
N 1,731,782.18
E 1,190,159.07
ELEV. 684.30



CONTROL POINT #3

SURVEY POINT

STA. 60+88.43, 26.50' LT
N 1,731,385.44
E 1,190,581.71
ELEV. 684.44



CONTROL POINT #4

SURVEY POINT

STA. 58+81.99, 24.66' LT
N 1,731,197.84
E 1,190,602.41
ELEV. 694.89

MODEL: SHOOTING
FILE: DRAWING: STYLES

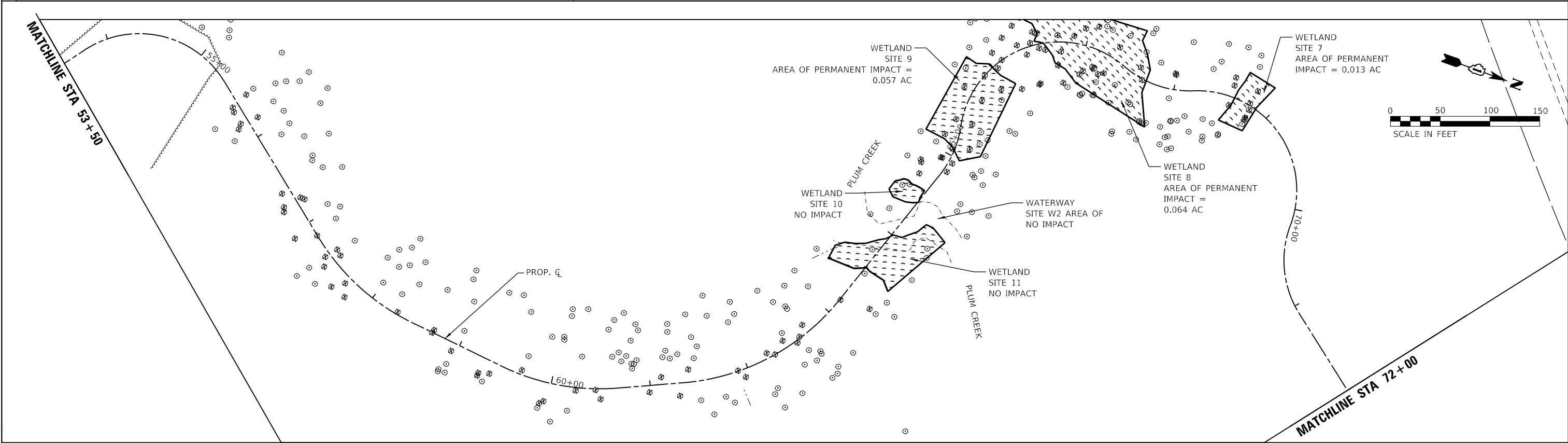
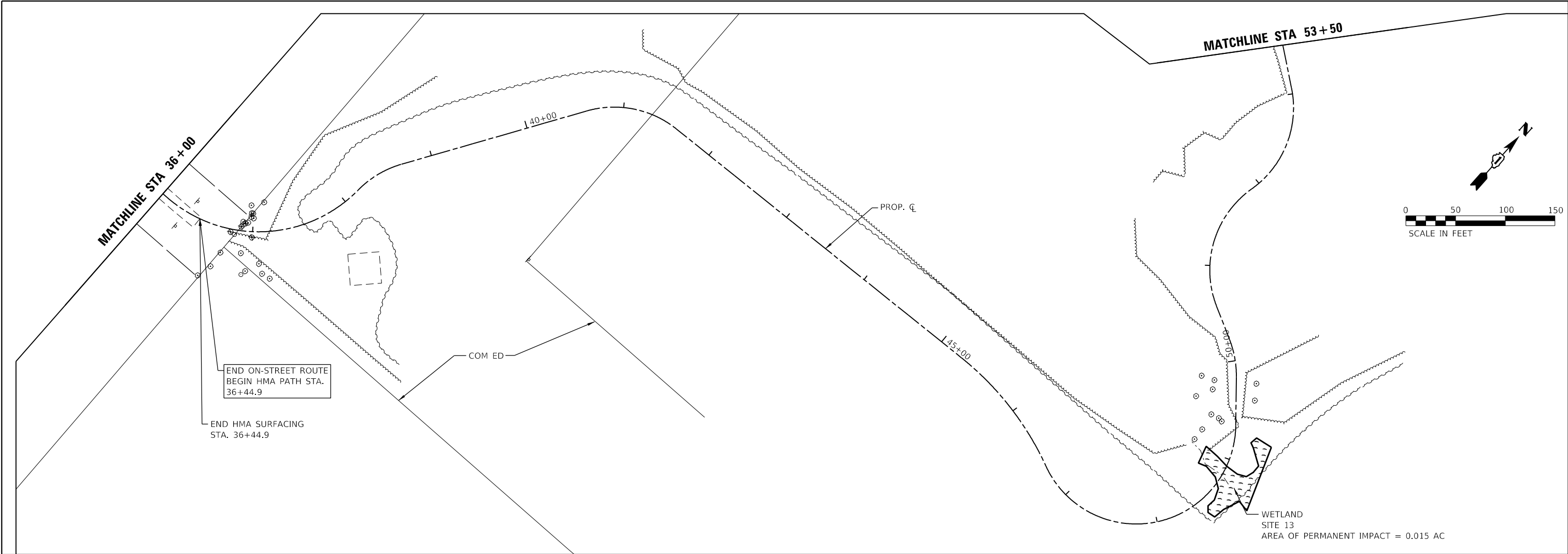


USER NAME = SUSERS	DESIGNED - MIA	REVISED -
DRAWN - JS	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - DDL	REVISED -
PLOT DATE = \$DATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

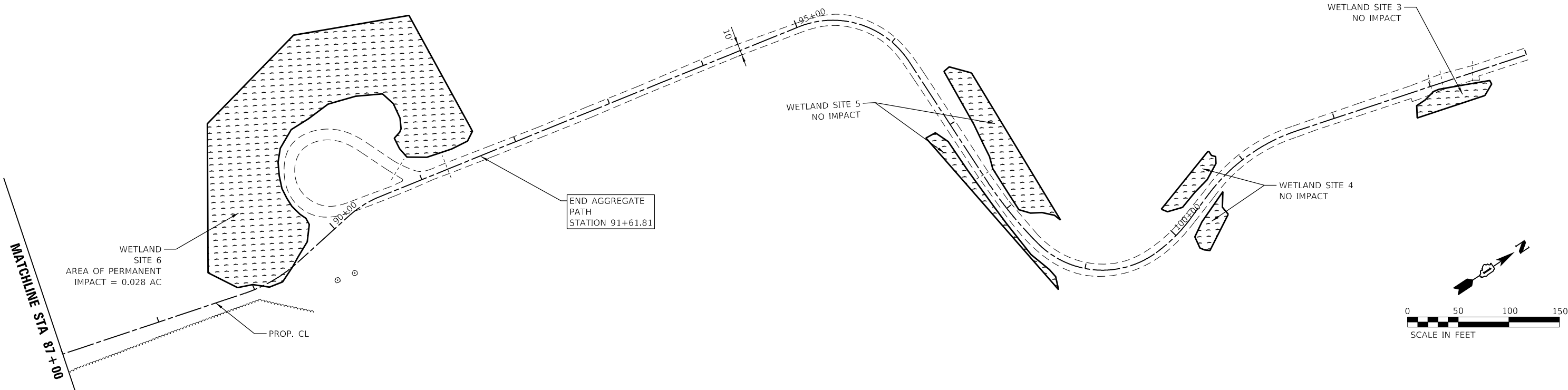
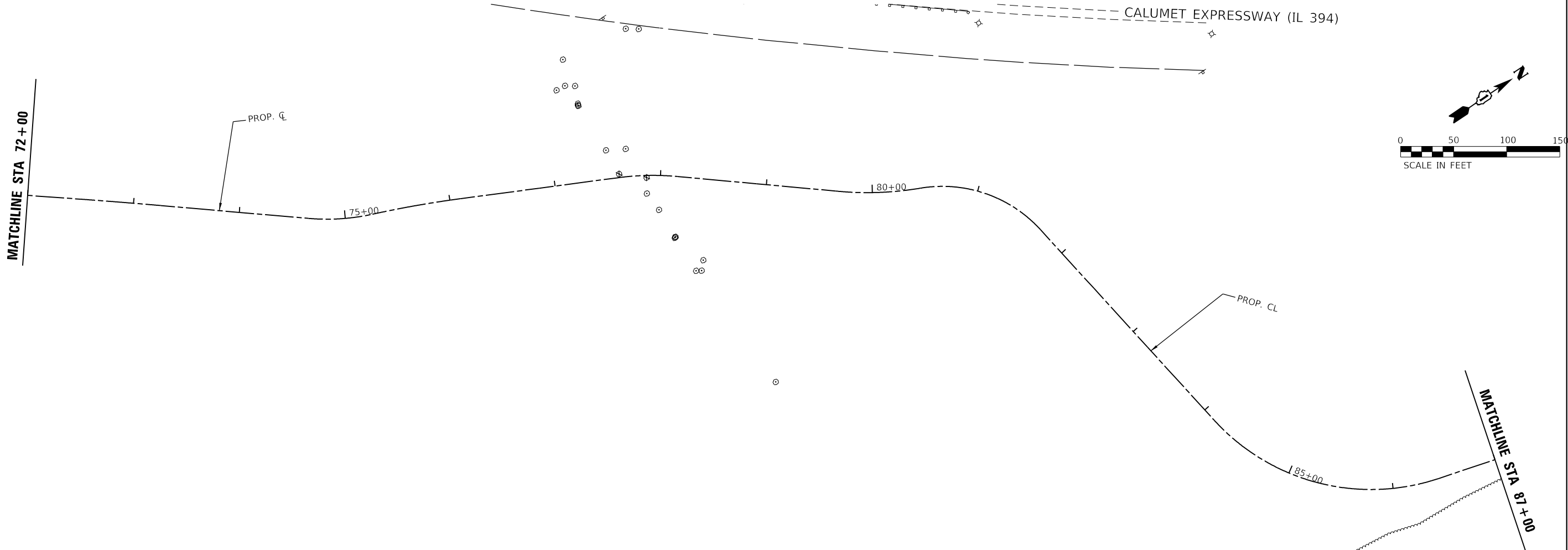
PLUM CREEK GREENWAY TRAIL SEGMENT 3 ALIGNMENT AND TIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	15
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



MODEL: SHOWNAMES
FILE: DRAWING: SITE1

 TERRA ENGINEERING LTD.	USER NAME = SUSERS	DESIGNED - MJA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLUM CREEK GREENWAY TRAIL SEGMENT 3 REMOVAL PLAN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JS	REVISED -							20-F3000-06-BT	WILL	88	17
	PLOT SCALE = 55CALES	CHECKED - DDL	REVISED -		CONTRACT NO. 61K44								
	PLOT DATE = 5DATES	DATE - 2-12-25	REVISED -		ILLINOIS FED. AID PROJECT								
SCALE:		SHEET	OF	SHEETS	STA.	TO STA.							



MODEL: SHORLNAME\$
FILE: DRAWING: SITE1.DWG



USER NAME = SUSER\$	DESIGNED - MIA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = S\$SCALE\$	CHECKED - DDL	REVISED -
PLOT DATE = S\$DATE\$	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
REMOVAL PLAN

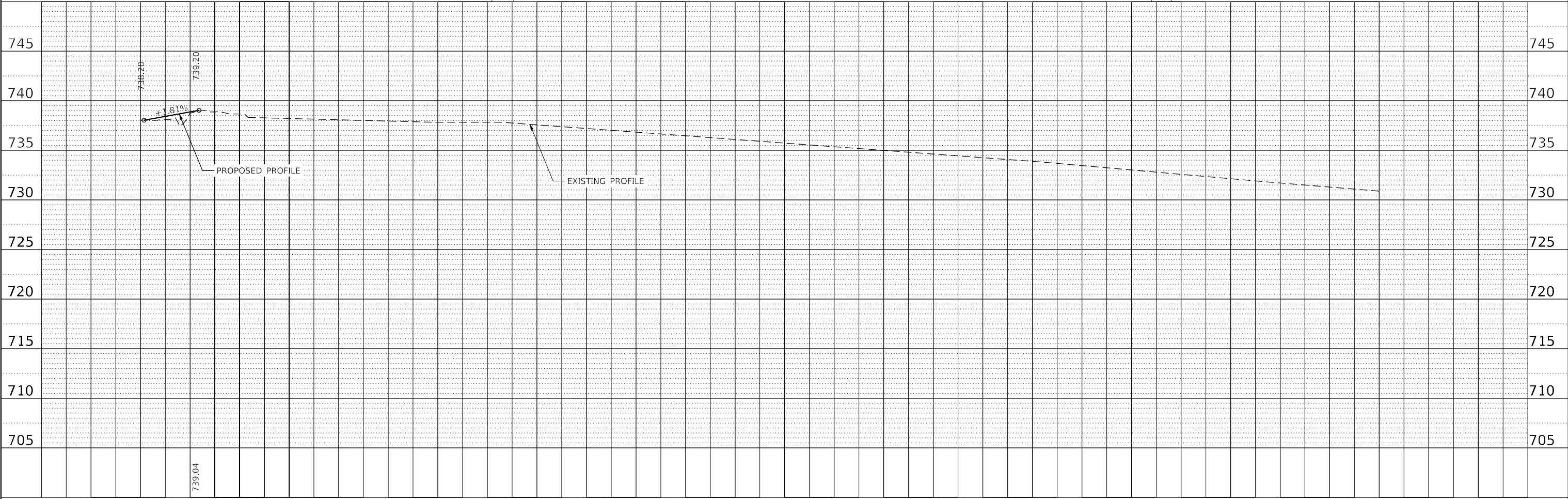
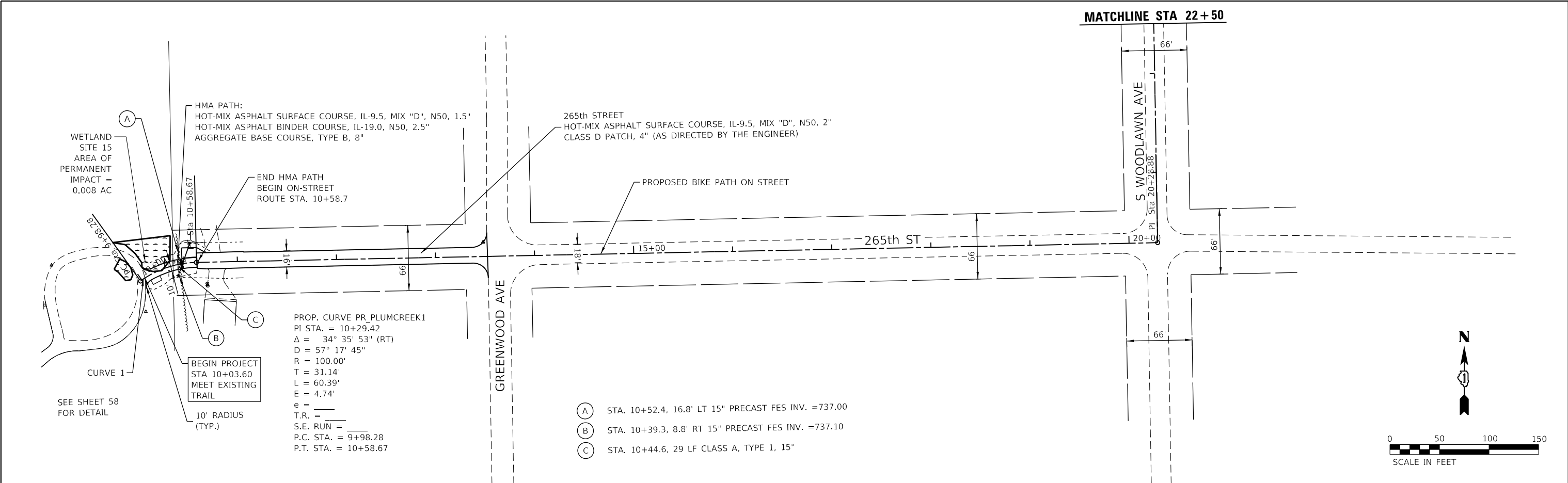
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	18
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

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

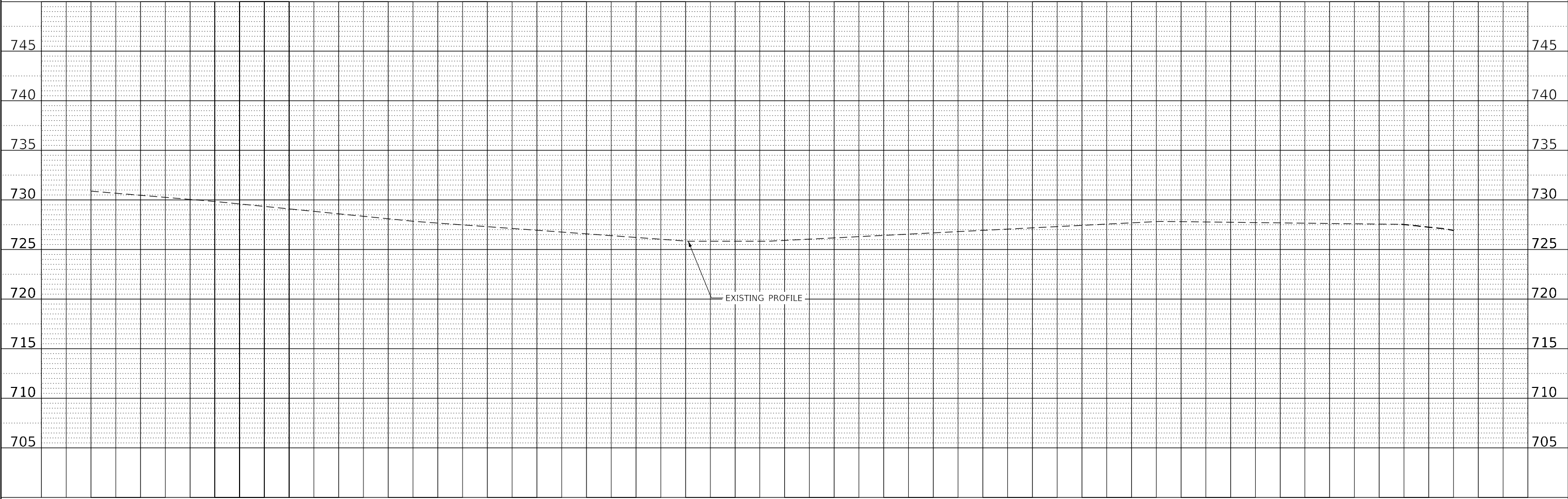
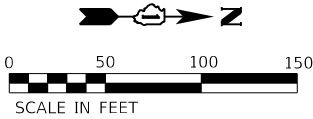
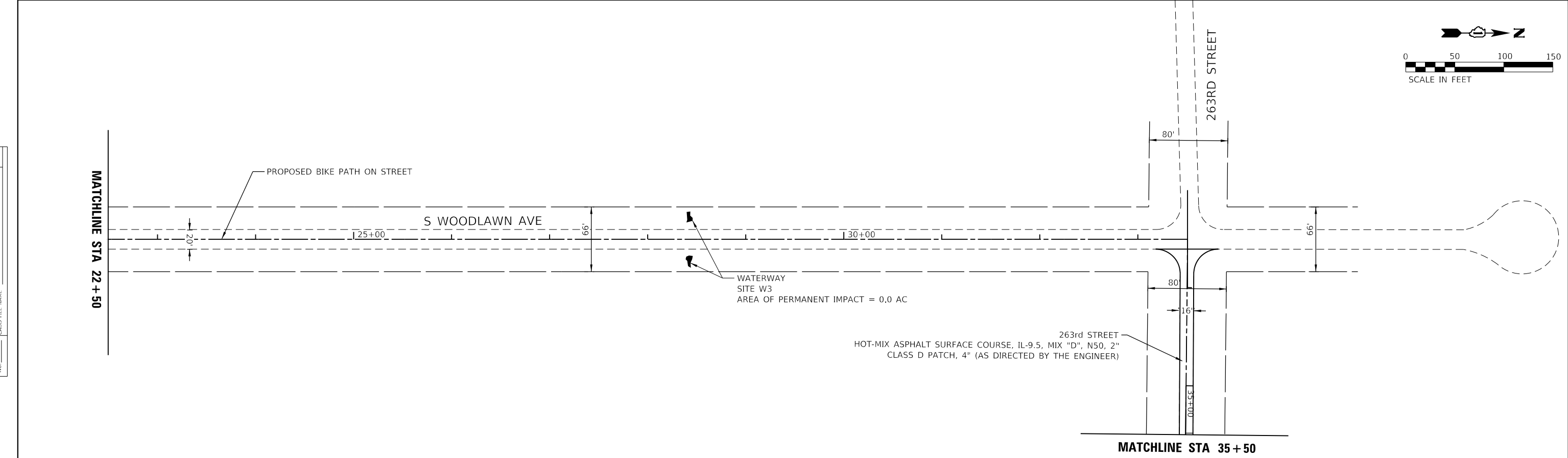
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	BY	
NOTE BOOK	PLOTTED	
	NO.	
	GRADES CHECKED	
	STRUCTURE NOTATION CHKD	

MODEL: SMODELNAME'S
FILE NAME: \$FILE\$



PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED		
	AS NOTED		
NO.	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	GRADES CHECKED		
	STRUCTURE NOTATION CHKD		
NO.			



MODEL: \$MODELNAME\$
FILE NAME: \$FILES

PROFILE		BY	DATE
	SURVEYED _____		
	PLOTTED _____		
NOTE BOOK	GRADES CHECKED _____		
	B.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CHK'D _____		

MODEL: \$MODELNAME
FILE NAME: \$FILE\$

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	21
		CONTRACT NO. 61K44		
ILLINOIS		FED. AID PROJECT		

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK _____	GRADES CHECKED _____		
NO. _____	B.M. NOTED _____		
	STRUCTURE NOTATION CHKD _____		

PROP. CURVE PR. PLUMCREEK9
PI STA. = 52+55.85
Δ = 66° 12' 11" (LT)
D = 57° 17' 45"
R = 100.00'
T = 65.19'
L = 115.55'
E = 19.37'
e = ____
T.R. = ____
S.E. RUN = ____
P.C. STA. = 51+90.65
P.T. STA. = 53+06.20

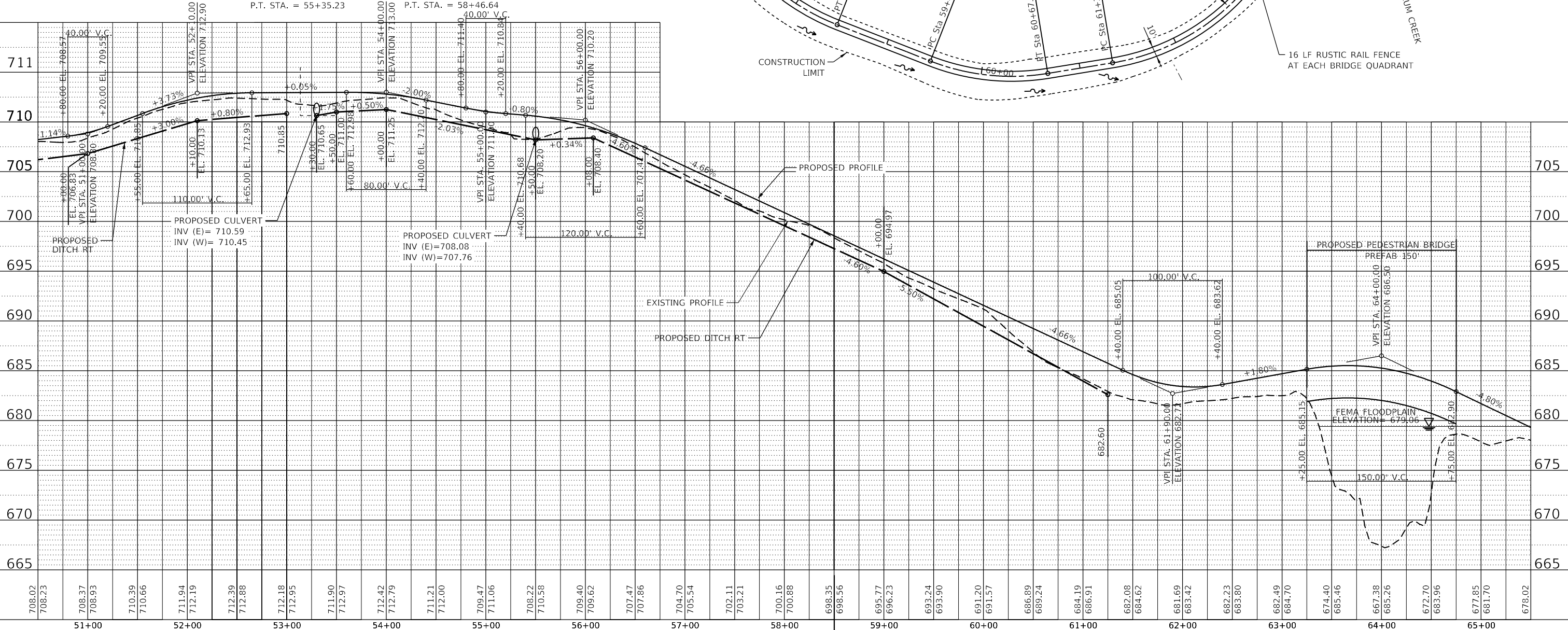
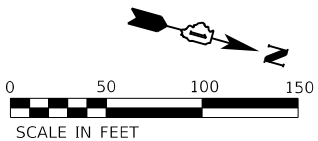
PROP. CURVE PR_PLUM0
PI STA. = 54+78.22
 $\Delta = 92^{\circ} 09' 01''$ (RT)
 $D = 57^{\circ} 17' 45''$
R = 100.00'
T = 103.83'
L = 160.83'
E = 44.15'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 53+74.39
P.T. STA. = 55+35.23

PROP. CURVE PR_PLUM
PI STA. = 57+83.95
Δ = 32° 51' 31" (LT)
D = 25° 27' 53"
R = 225.00'
T = 66.35'
L = 129.04'
E = 9.58'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 57+17.60
P.T. STA. = 58+46.64

PROP. CURVE PR_PLUM
PI STA. = 60+08.64
 $\Delta = 30^\circ 34' 28''$ (LT)
D = 25° 27' 53"
R = 225.00'
L = 61.50'
T = 120.07'
E = 8.25'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 59+47.14
P.T. STA. = 60+67.20

PROP. CURVE PR_PLUM
PI STA. = 62+30.02
Δ = 46° 35' 13" (LT)
D = 25° 27' 53"
R = 225.00'
T = 96.87'
L = 182.95'
E = 19.97'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 61+33.15
P.T. STA. = 63+16.10

PROP. CURVE PR_PLUM
PI STA. = 65+04.40
 $\Delta = 30^\circ 22' 56''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $L = 27.15'$
 $L = 53.03'$
 $E = 3.62'$
 $e =$ _____
 $T.R. =$ _____ A
 $S.E. RUN =$ _____
 $P.C. STA. = 64+77.25$
 $P.T. STA. = 65+30.28$

MODEL: \$MODELNAMES
FILE NAME: \$FILE\$

USER NAME = \$USERS	DESIGNED - MIA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = \$SCALES	CHECKED - DDL	REVISED -
PLOT DATE = \$DATES	DATE - 2/12/25	REVISED -

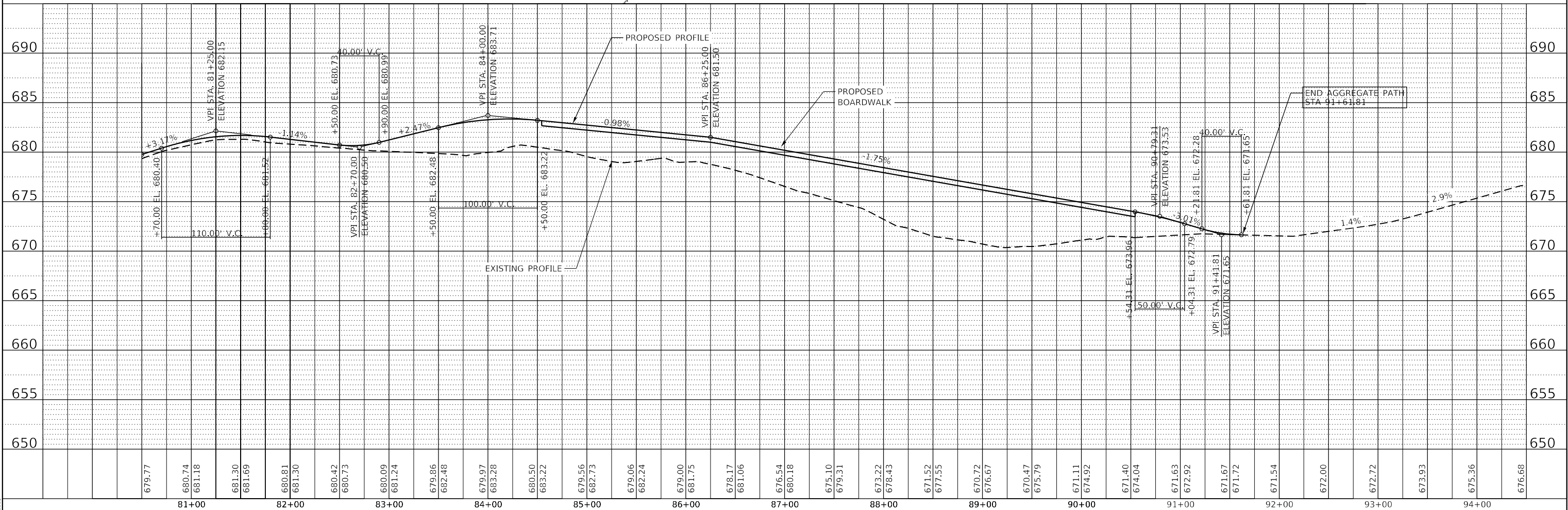
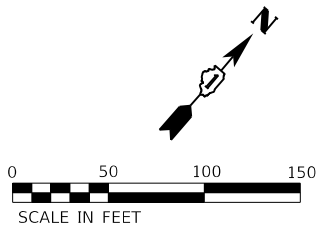
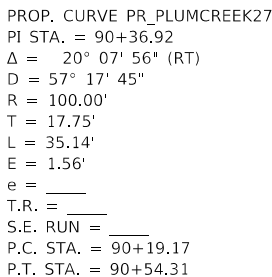
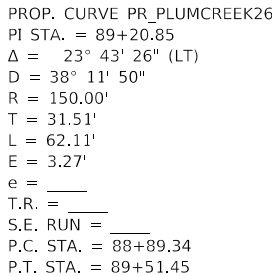
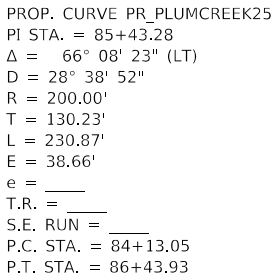
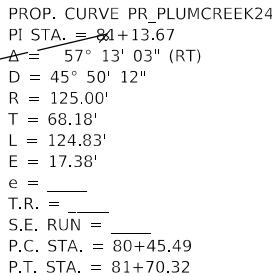
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLUM CREEK GREENWAY TRAIL SEGMENT 3 PLAN AND PROFILE

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	22
		CONTRACT NO. 61K44		
ILLINOIS		FED. AID PROJECT		

PROFILE		BY	DATE
NOTE BOOK	SURVEYED _____		
	PLOTTED _____		
	GRADES CHECKED _____		
	B.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CHK'D _____		

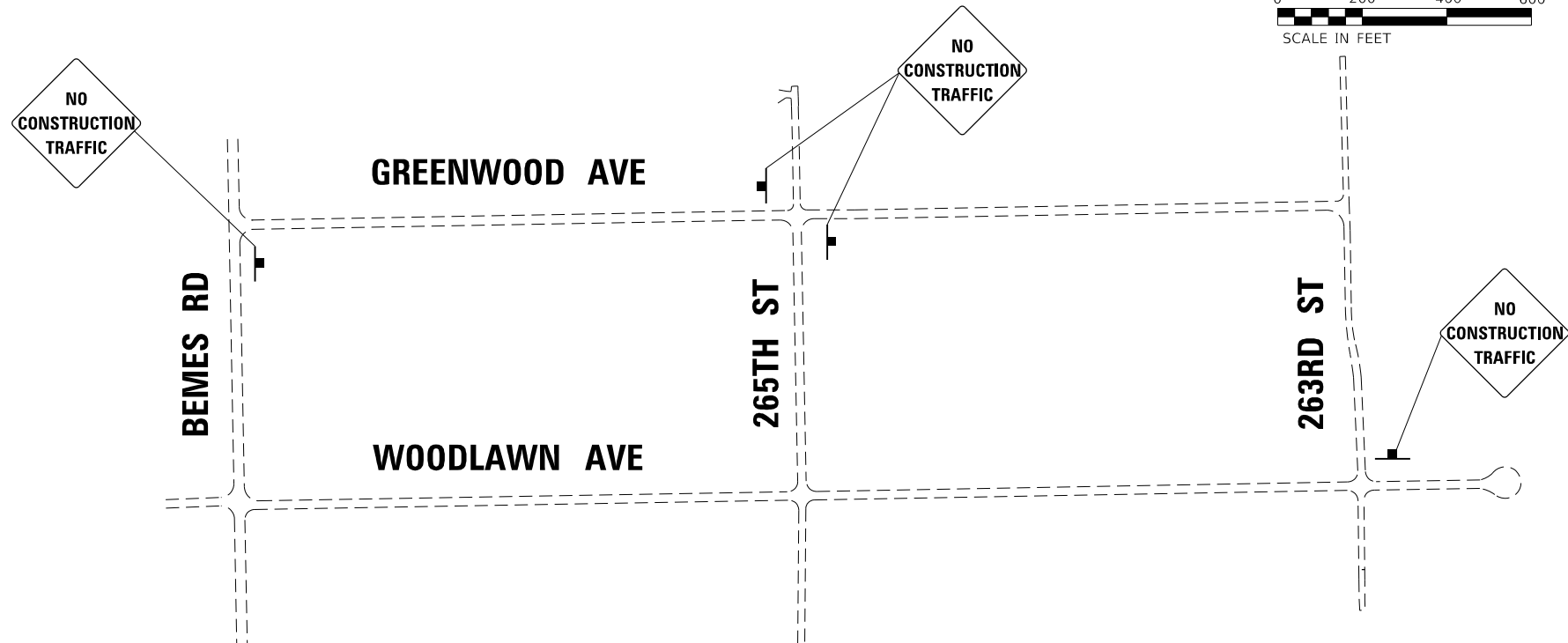


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MODEL: $MODELNAMES
FILE NAME: $FILE$
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 TERRA ENGINEERING LTD.	USER NAME = USERS	DESIGNED - MIA	REVISED -
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	PLOT DATE = \$DATE\$	CHECKED - DDL	REVISED -
		DATE - 2/12/25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3 PLAN AND PROFILE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					20-F3000-06-BT	WILL	88	24
				CONTRACT NO. 61K44				
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

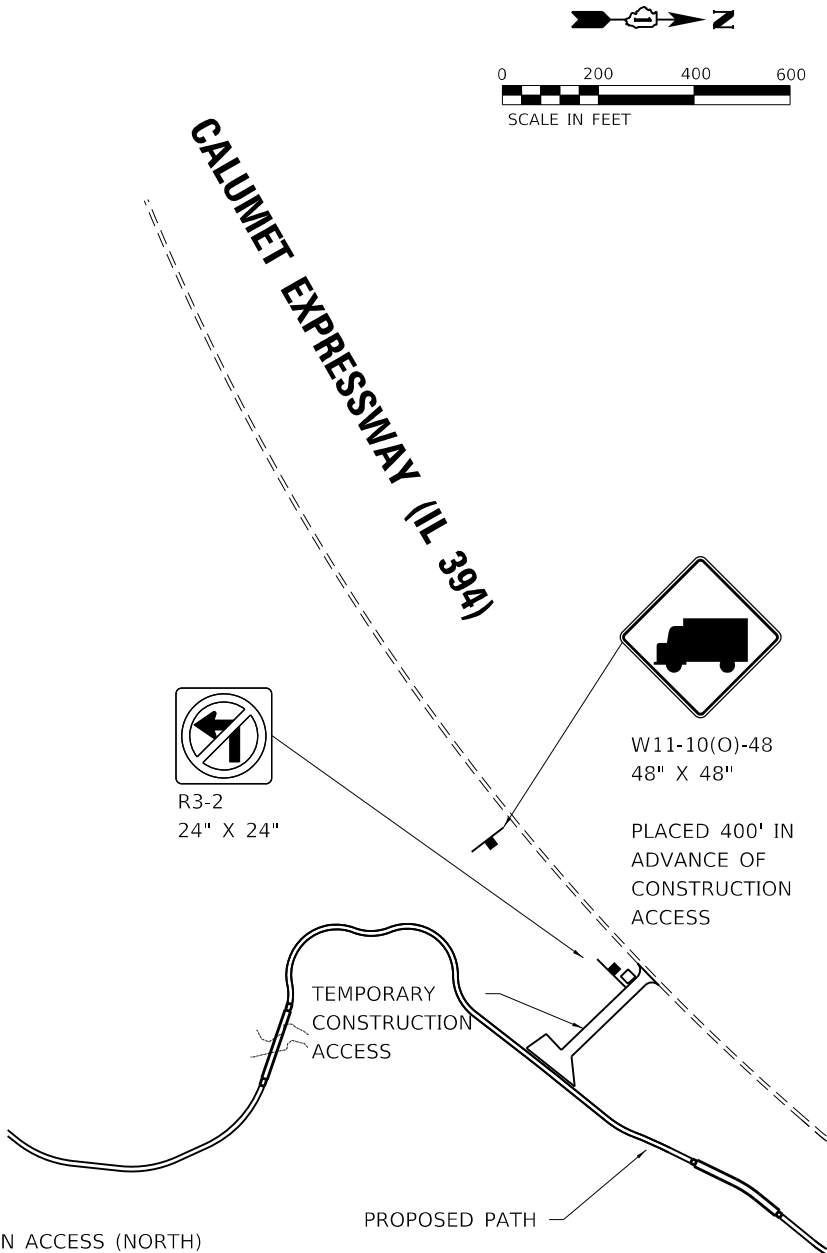


CONSTRUCTION ACCESS (SOUTH)

CONSTRUCTION ACCESS TO THE SOUTH SIDE OF THE PROJECT SHALL BE LIMITED TO USING IL ROUTE 394 AND BE REQUIRED TO USE GOODENOW ROAD, STONEY ISLAND AVENUE (BETWEEN GOODENOW ROAD AND BEMES ROAD), BEMES ROAD (BETWEEN STONEY ISLAND AVENUE AND WOODLAWN AVENUE), AND WOODLAWN AVENUE NORTH OF BEMES ROAD.

DESIGNATED CONSTRUCTION ACCESS ROUTES SHALL BE LIMITED WITHIN THE SUBDIVISION TO WOODLAWN AVENUE (BETWEEN 263RD STREET AND BEMES ROAD), 265TH STREET, AND 263RD STREET EAST OF WOODLAWN.

CONSTRUCTION TRAFFIC WITHIN THE SUBDIVISION SHALL BE LIMITED TO BETWEEN 8:00 AM AND 3:00 PM MONDAY THROUGH FRIDAY AND SHALL NOT EXCEED 15 MPH.



CONSTRUCTION ACCESS (NORTH)

CONSTRUCTION ACCESS TO THE NORTH SIDE OF THE PROJECT SHALL BE REQUIRED TO USE A TEMPORARY ACCESS ROAD FROM IL ROUTE 394. NO CONSTRUCTION TRAFFIC WILL BE ALLOWED FROM BURVILLE ROAD EXCEPT AS ALLOWED BY THE ENGINEER.

STANDARD 701101 SHALL BE USED WHEN THE TEMPORARY ACCESS ROAD IS CONSTRUCTED AND REMOVED.

MODEL: SHODEN MAMES
FILE: DRAWING: STYLES



USER NAME = SUSERS	DESIGNED - MIA	REVISED -
DRAWN - JS	REVISED -	
PLOT SCALE = 5SCALES	CHECKED - DDL	REVISED -
PLOT DATE = 5DATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
TRAFFIC CONTROL /CONTRACTOR ACCESS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	25
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

40 LF HIGH VISIBILITY
TEMPORARY FENCING

WETLAND
SITE 15
AREA OF
PERMANENT
IMPACT =
0.008 AC

PERIMETER
EROSION
BARRIER

3 SY STONE DUMPED
RIPRAP, CLASS A3

END HMA PATH
BEGIN ON-STREET
ROUTE STA. 10+58.7

PERIMETER EROSION BARRIER

3 SY STONE DUMPED
RIPRAP, CLASS A3

PATH
CLOSED

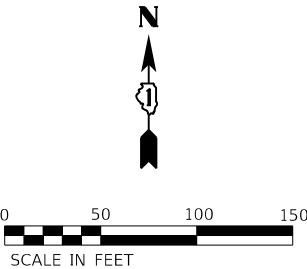
48" X 30"

BEGIN PROJECT
STA 10+03.6
MEET EXISTING
TRAIL

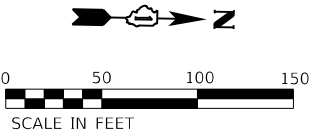
30 LF
TEMPORARY
FENCE

LEGEND

-  EROSION CONTROL BLANKET (SPECIAL)
-  PERIMETER EROSION BARRIER (PEB)
-  TEMPORARY DITCH CHECKS
-  HIGH VISIBILITY TEMPORARY FENCE
-  TEMPORARY FENCE
-  FLOW ARROWS
-  TEMPORARY SIGN
-  WETLAND



MATCHLINE STA 22+50



NOTES:

1. NO STORAGE OF MATERIAL, EQUIPMENT OR STAGING SHALL BE ALLOWED ON ANY STREETS OR AT THE WORK AREA AT THE WEST END OF 265th STREET.
2. NO VEHICLES OF ANY KIND SHALL BE PARKED OR STOPPED ON ANY STREET EXCEPT WHEN WORK IS TO BE PERFORMED ON THE STREETS.
3. MATERIAL AND EQUIPMENT STORAGE SHALL ONLY OCCUR AT LOCATIONS DESIGNATED ON THE PLAN.
4. THE COST OF ALL TRAIL CLOSURE SIGNING SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). THE TRAIL CLOSURE SIGNING IS THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL TRAIL CLOSING MEASURES AS DIRECTED BY THE FOREST PRESERVE OR ENGINEER.
5. TEMPORARY FENCE SHALL BE PLACED ACROSS THE EXISTING TRAIL AND AT THE CONSTRUCTION ACCESS LOCATIONS. THE CONTRACTOR SHALL ENSURE THAT THE FENCE IS PLACED ACROSS THE CONSTRUCTION ACCESS LOCATIONS AT ALL TIMES WHEN THE CONTRACTOR IS NOT ON SITE.

MODEL: 3/20/2015
FILE: 3/20/2015



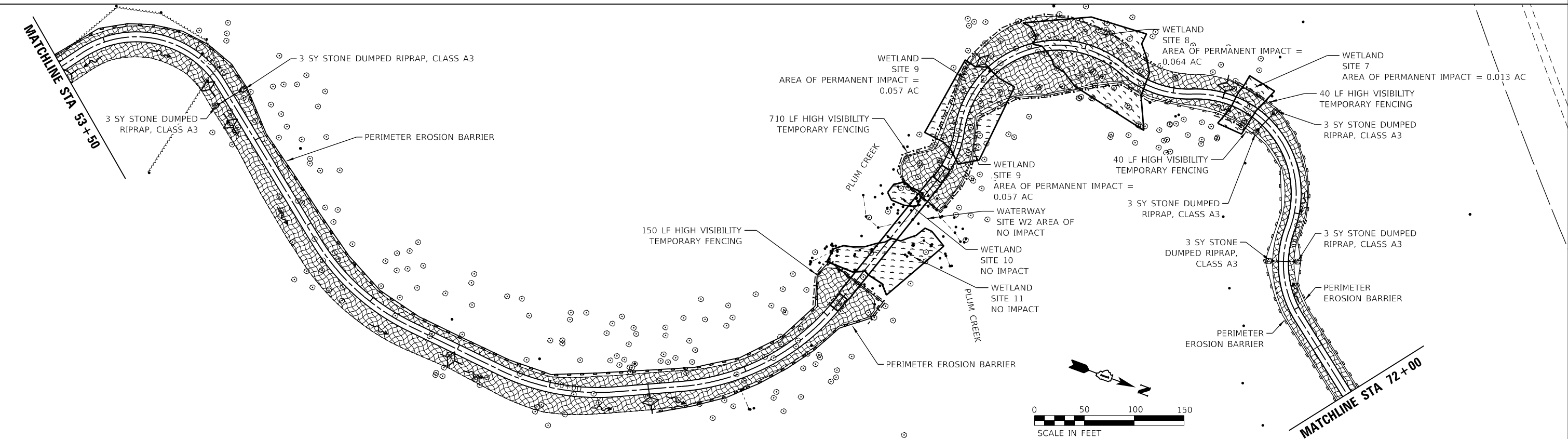
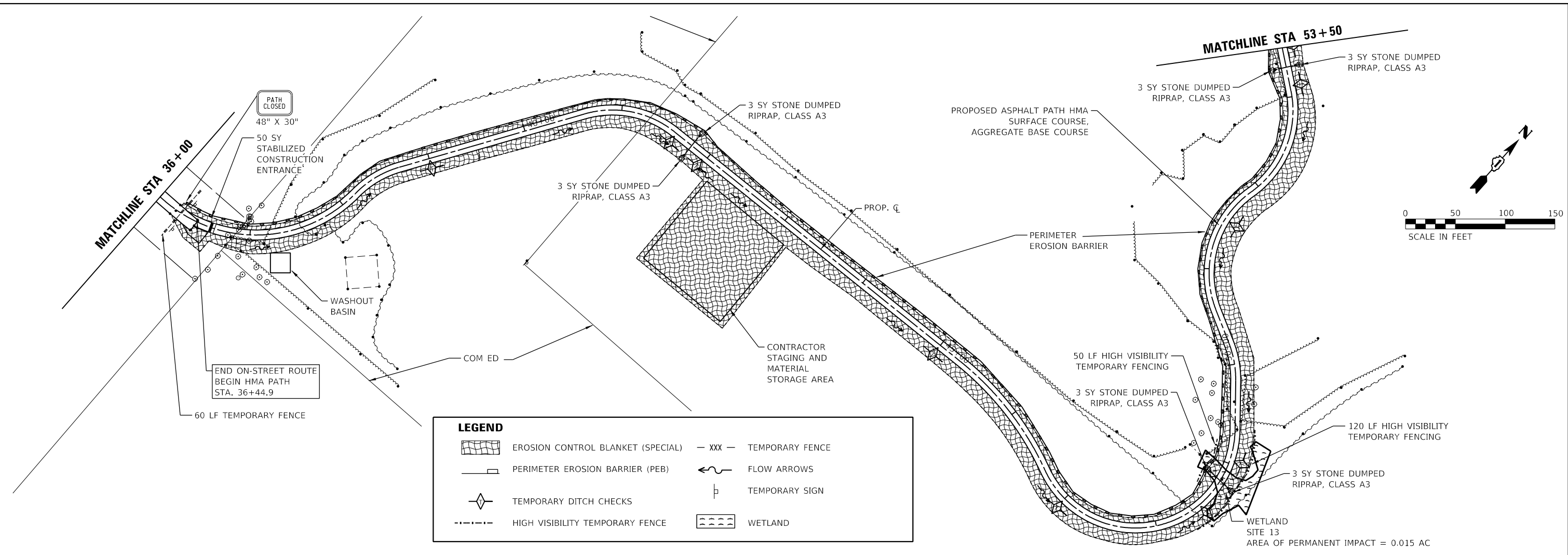
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PLOT DATE = 5DATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
EROSION, SEDIMENT CONTROL, AND STAGING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	26
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



MODEL: MODEL NAMES
FILE: DRAWING: STYLES



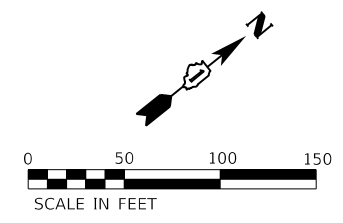
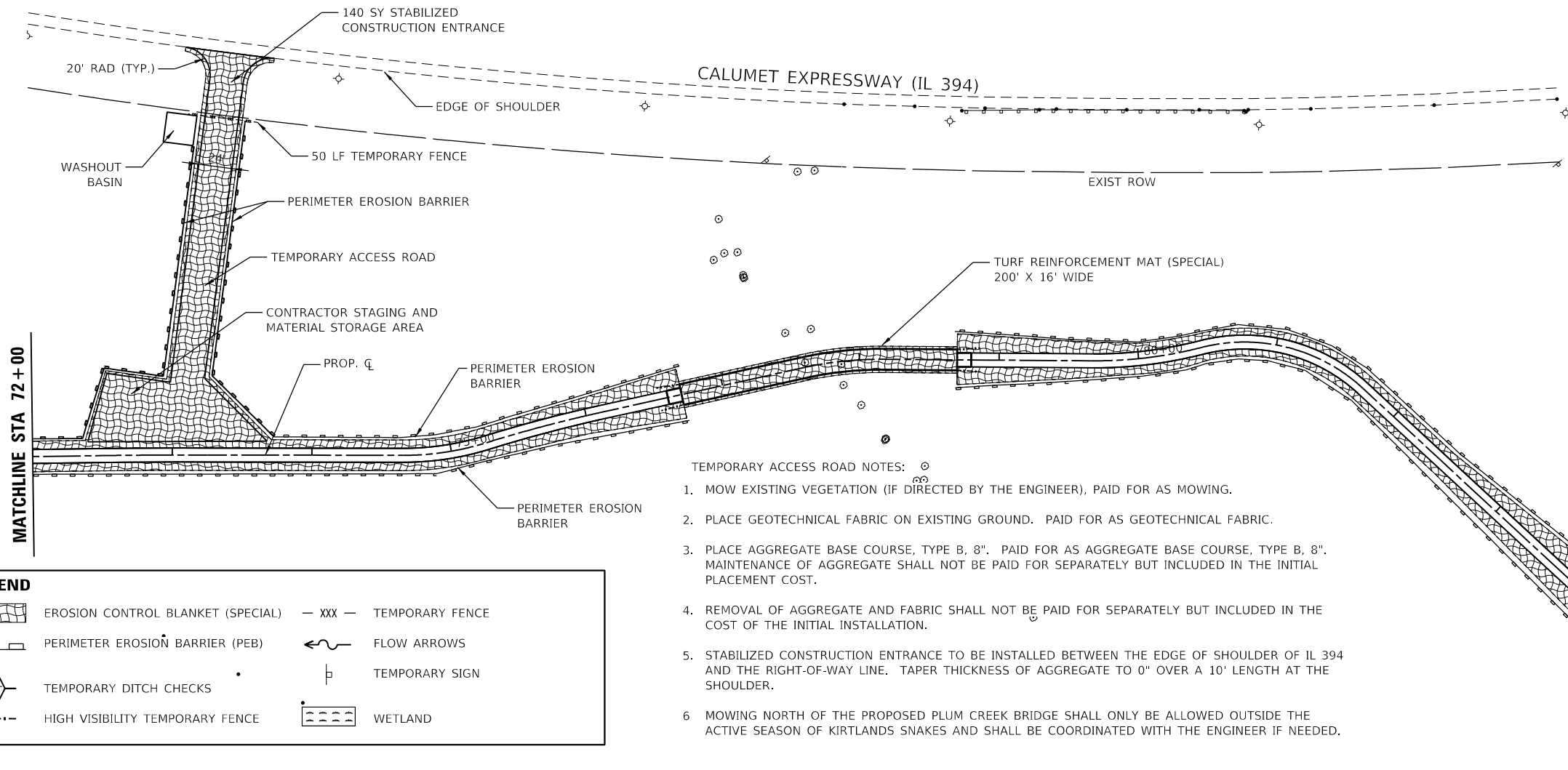
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DRAWN - JS	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED - DDL	REVISED -
PLOT DATE = \$DATE\$	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
EROSION, SEDIMENT CONTROL, AND STAGING DETAILS

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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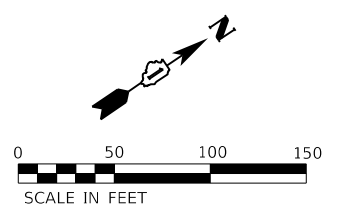
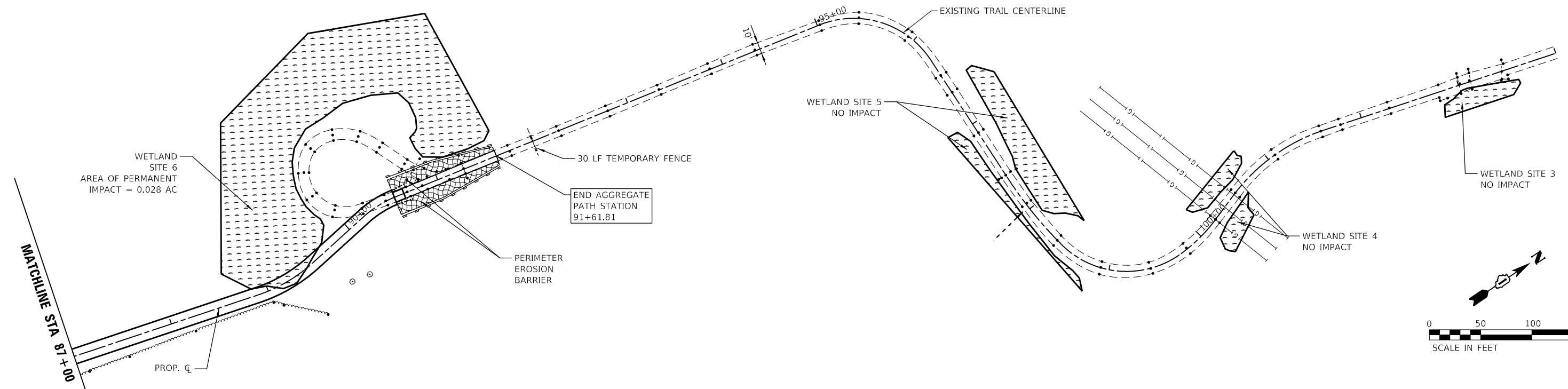
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	20-F3000-06-BT	WILL	88	27
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



LEGEND

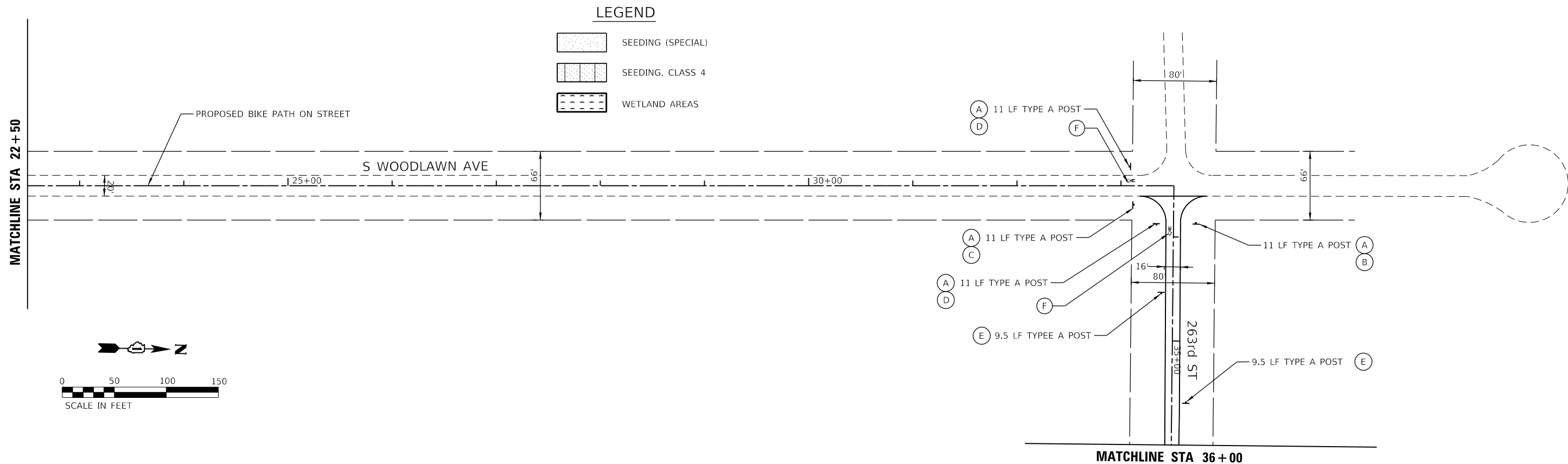
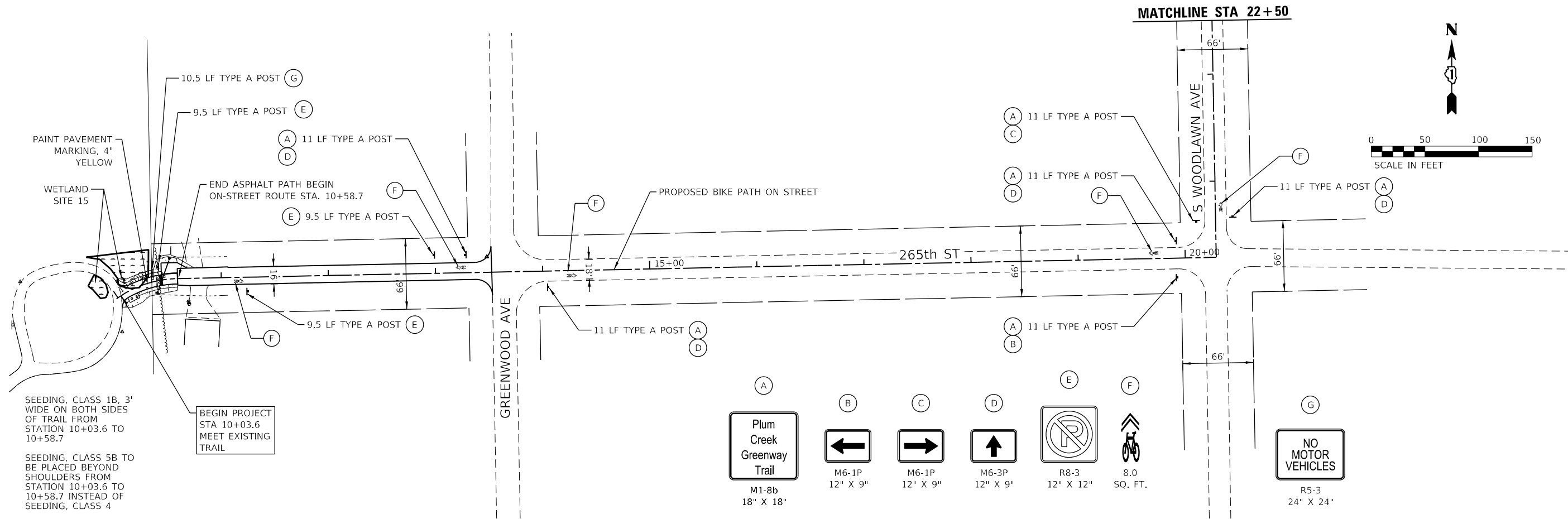
- | | | | |
|--|-----------------------------------|--|-----------------|
| | EROSION CONTROL BLANKET (SPECIAL) | | TEMPORARY FENCE |
| | PERIMETER EROSION BARRIER (PEB) | | FLOW ARROWS |
| | TEMPORARY DITCH CHECKS | | TEMPORARY SIGN |
| | HIGH VISIBILITY TEMPORARY FENCE | | WETLAND |

- TEMPORARY ACCESS ROAD NOTES:
1. MOW EXISTING VEGETATION (IF DIRECTED BY THE ENGINEER), PAID FOR AS MOWING.
 2. PLACE GEOTECHNICAL FABRIC ON EXISTING GROUND. PAID FOR AS GEOTECHNICAL FABRIC.
 3. PLACE AGGREGATE BASE COURSE, TYPE B, 8". PAID FOR AS AGGREGATE BASE COURSE, TYPE B, 8". MAINTENANCE OF AGGREGATE SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE INITIAL PLACEMENT COST.
 4. REMOVAL OF AGGREGATE AND FABRIC SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE INITIAL INSTALLATION.
 5. STABILIZED CONSTRUCTION ENTRANCE TO BE INSTALLED BETWEEN THE EDGE OF SHOULDER OF IL 394 AND THE RIGHT-OF-WAY LINE. TAPER THICKNESS OF AGGREGATE TO 0" OVER A 10' LENGTH AT THE SHOULDER.
 6. MOWING NORTH OF THE PROPOSED PLUM CREEK BRIDGE SHALL ONLY BE ALLOWED OUTSIDE THE ACTIVE SEASON OF KIRTLANDS SNAKES AND SHALL BE COORDINATED WITH THE ENGINEER IF NEEDED.



MODEL: SHOWNAMES
FILE: DRAWING: STYLES

	USER NAME = SUSERS		DESIGNED - MIA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLUM CREEK GREENWAY TRAIL SEGMENT 3 EROSION, SEDIMENT CONTROL, AND STAGING DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - JS		CHECKED - DDL	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			20-F3000-06-BT	WILL	88	28
	PLOT SCALE = SCALES		DATE - 2-12-25	REVISED -				CONTRACT NO. 61K44				
	PLOT DATE = SDATES							ILLINOIS FED. AID PROJECT				



MODEL: SHOOTING
FILE: 20-F3000-06-BT



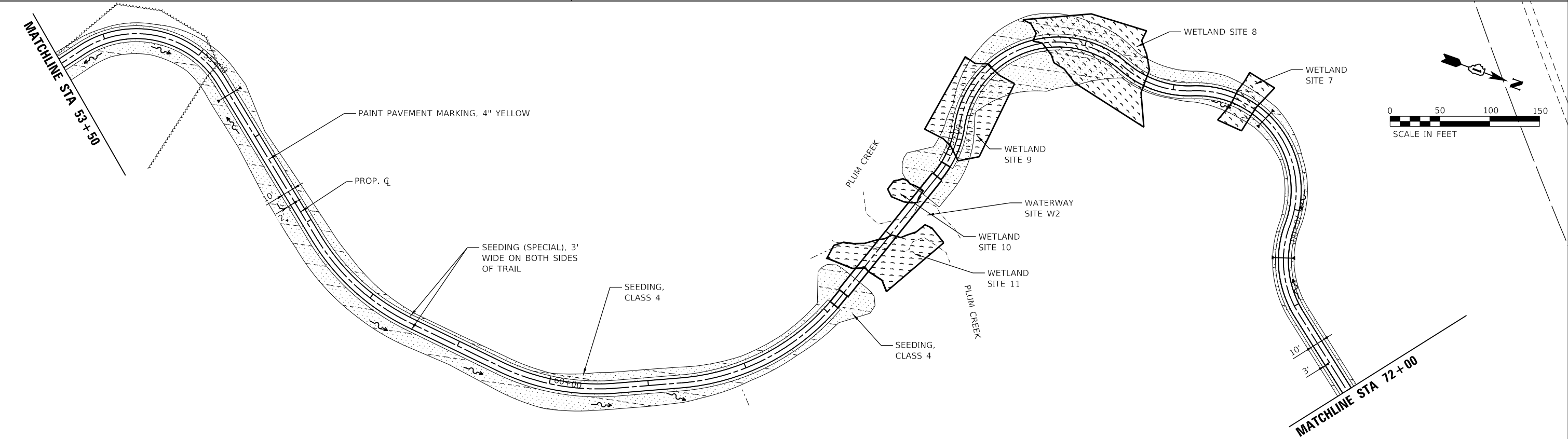
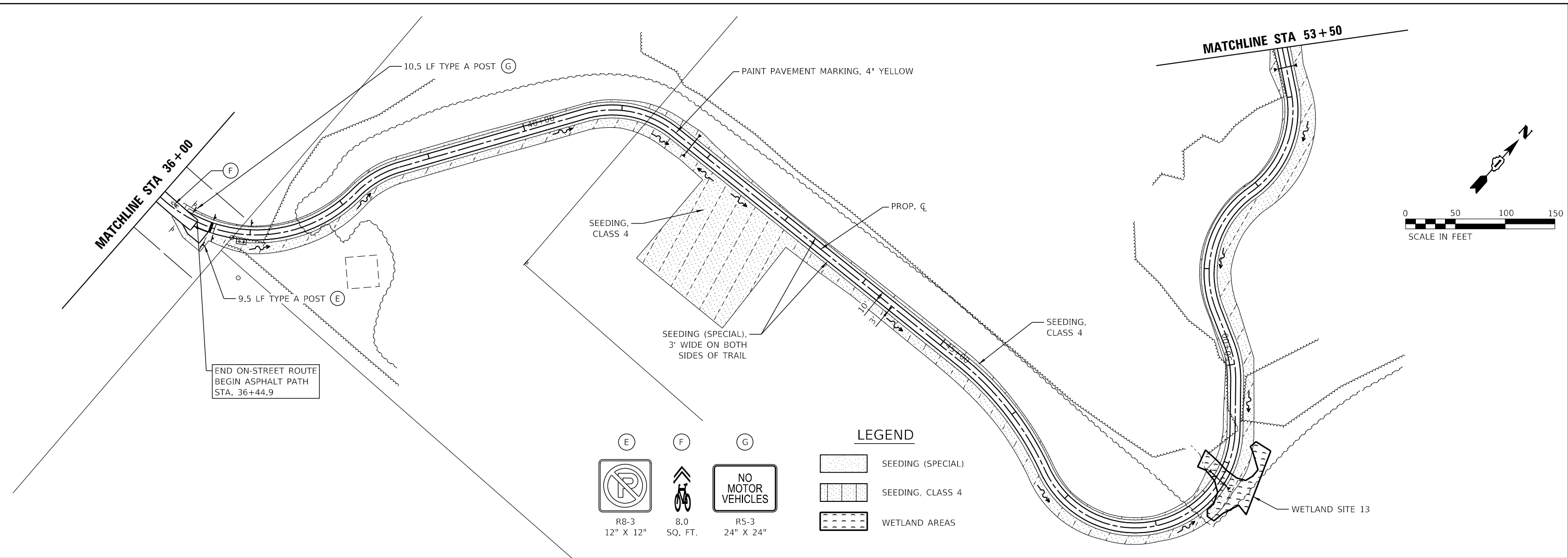
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DRAWN - JS	REVISED -	
PLOT SCALE = 55CALES	CHECKED - DDL	REVISED -
PLOT DATE = 5DATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
LANDSCAPING /SIGNING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	29
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



MODEL: SHOWNAMES
FILE: DRAWING: SITE1



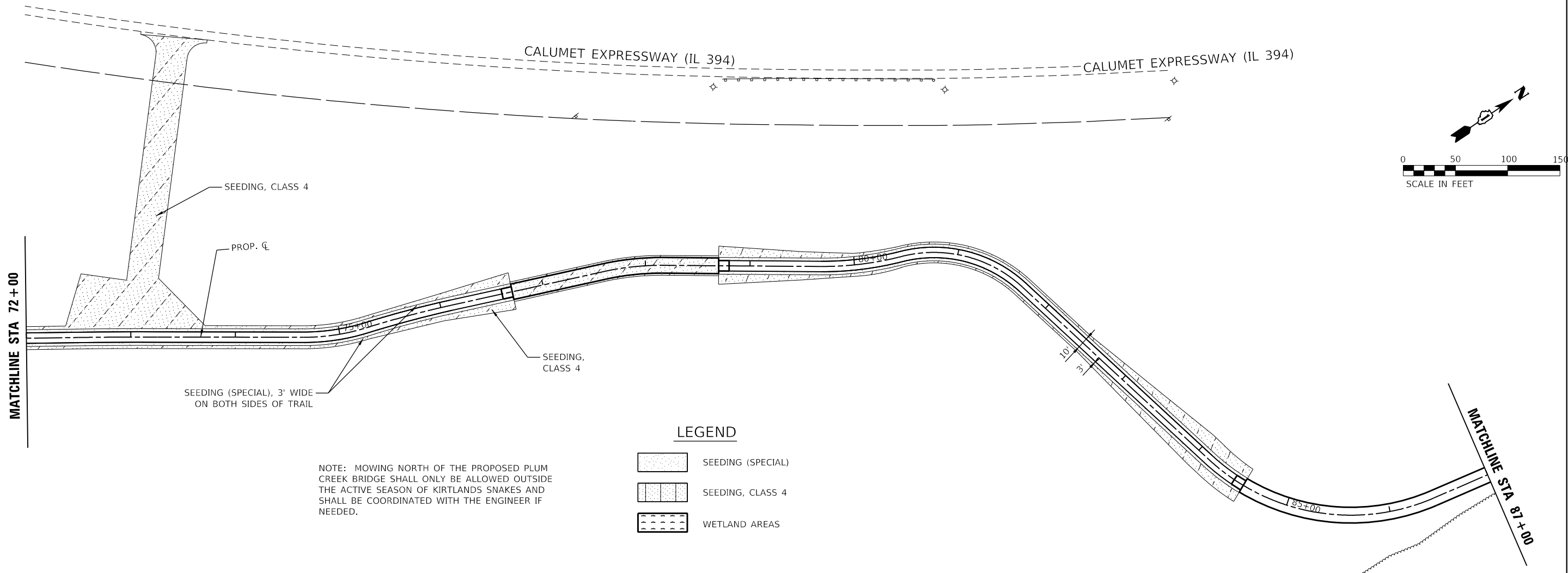
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DRAWN - JS	REVISED -	
PLOT SCALE = SCALES	CHECKED - DDL	REVISED -
PLOT DATE = SDATES	DATE - 2-12-25	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
LANDSCAPING /SIGNING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

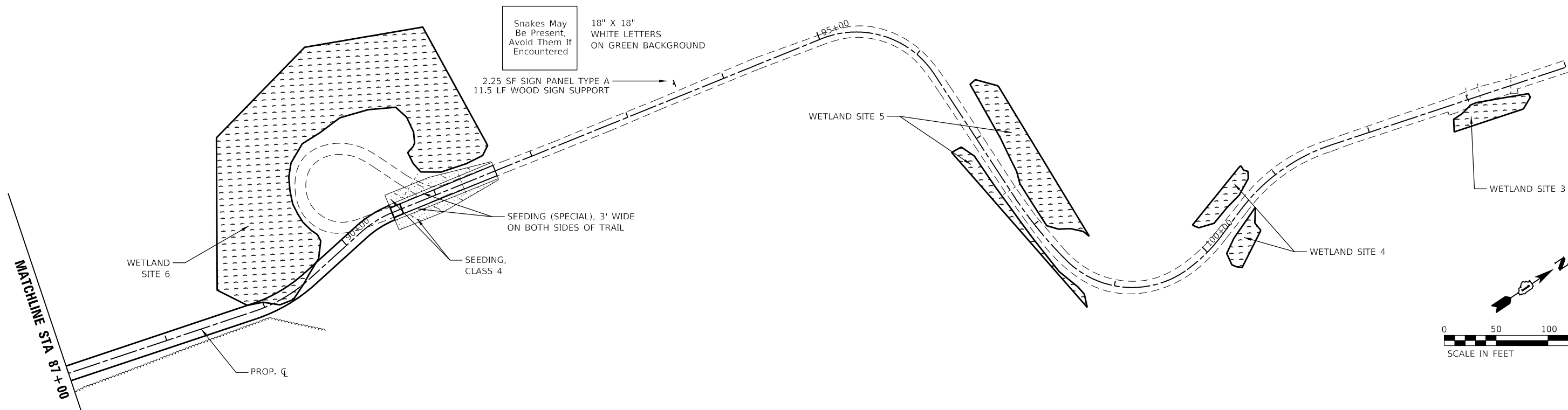
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	30
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



NOTE: MOWING NORTH OF THE PROPOSED PLUM CREEK BRIDGE SHALL ONLY BE ALLOWED OUTSIDE THE ACTIVE SEASON OF KIRTLANDS SNAKES AND SHALL BE COORDINATED WITH THE ENGINEER IF NEEDED.

LEGEND

- SEEDING (SPECIAL)
- SEEDING, CLASS 4
- WETLAND AREAS



Snakes May Be Present, Avoid Them If Encountered

18" X 18" WHITE LETTERS ON GREEN BACKGROUND

2.25 SF SIGN PANEL TYPE A 11.5 LF WOOD SIGN SUPPORT

MODEL: 61K44-06-BT
FILE NAME: 61K44-06-BT



USER NAME = SUSERS	DESIGNED - MIA	REVISED -
DRAWN - JS	REVISED -	
PLOT SCALE = 5SCALES	CHECKED - DDL	REVISED -
PLOT DATE = 5DATES	DATE - 2-12-25	REVISED -

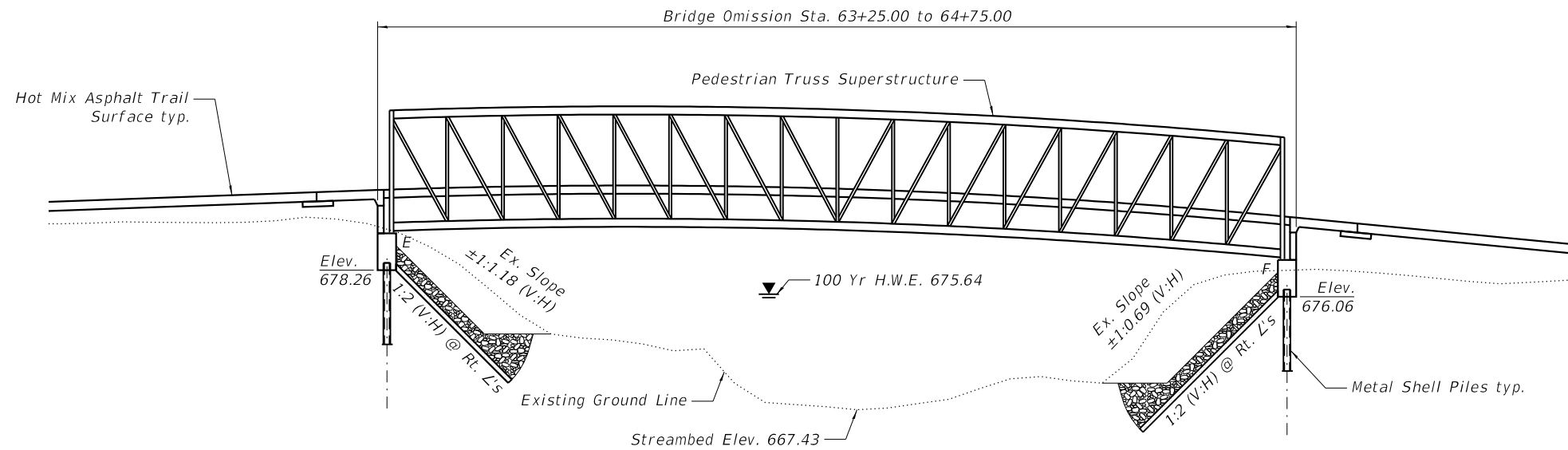
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
LANDSCAPING /SIGNING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

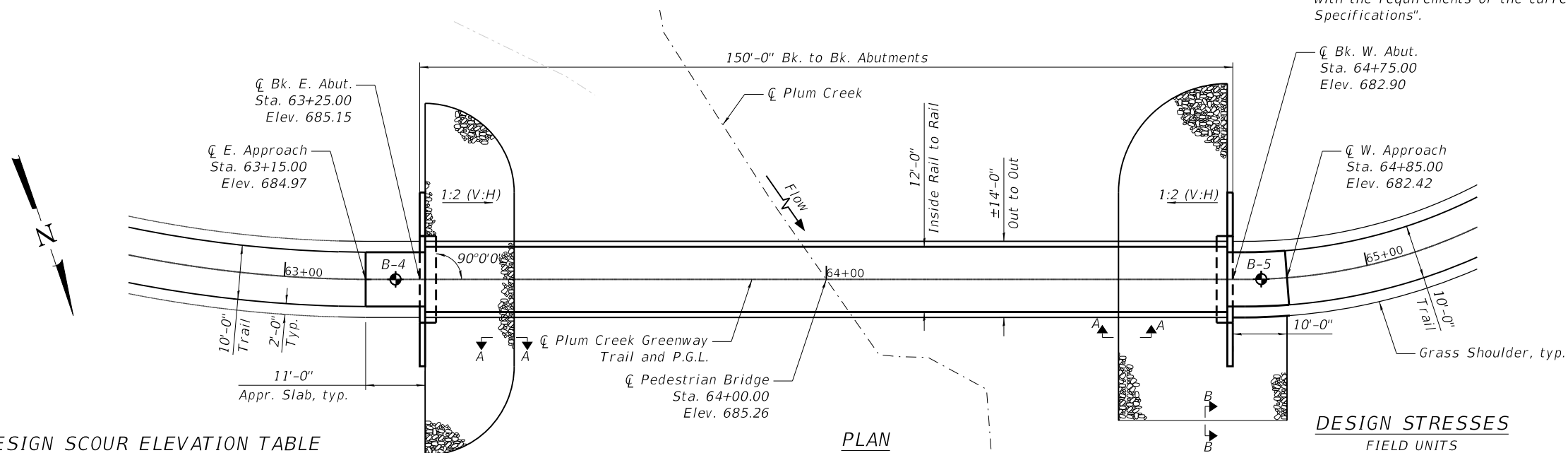
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	31
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

New Structure: New Pedestrian Bridge is a single span prefabricated truss with concrete deck superstructure on reinforced concrete abutments with driven pile foundation.



WATERWAY INFORMATION

Drainage Area = 16.5 sq mi Low Grade Elev. - @ Sta. -									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	580		485.31	674.92	N/A	0.03		674.95
Design	15	609		491.71	675.00	N/A	0.02		675.02
Base	100	910		548.13	675.68	N/A	0.00		675.64
Overtopping									
Max. Calc.	500	1200		592.22	676.16	N/A	0.00		676.12



DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				
State	E. Abut.	Pier -	Pier -	W. Abut.	Item 113
Q100	678.26	N/A	N/A	676.06	8
Q200	678.26	N/A	N/A	676.06	8
Design	678.26	N/A	N/A	676.06	8
Check	678.26	N/A	N/A	676.06	8

DESIGN STRESSES

FIELD UNITS	PLUM
$f'_c = 3,500 \text{ psi}$ (Substructure)	
$f'_c = 4,000 \text{ psi}$ (Superstructure)	
$f_y = 60,000 \text{ psi}$ (Reinforcement)	
$f_y = 50,000 \text{ psi}$ (M270 Grade 50W) - Truss	
$f_y = 46,000 \text{ psi}$ (Weathering Steel) - Truss Tubing	
$f_y = 50,000 \text{ psi}$ (ASTM A252, Grade 3) - Piles	

INDEX OF SHEETS

- | | |
|-------|------------------------------|
| S-1 | General Plan and Elevation |
| S-2 | General Data |
| S-3 | Bridge Approach Slab Details |
| S-4 | West Abutment Details |
| S-5 | East Abutment Details |
| S-6 | Pile Details |
| S-7-8 | Boring Logs |

DESIGN LOADING

Live Load: Pedestrian Live Load 90 Lb./Sq. Ft.
Maintenance Vehicle: AASHTO H10 Truck
Applied Separately From The Uniform Live Load

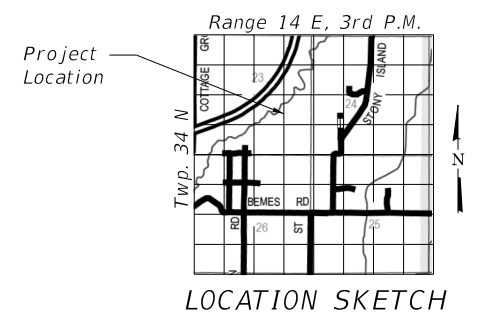
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition.

2009 AASHTO LRFD Guide Specifications for
the Design of Pedestrian Bridges.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.07
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.11
Soil Site Class = D



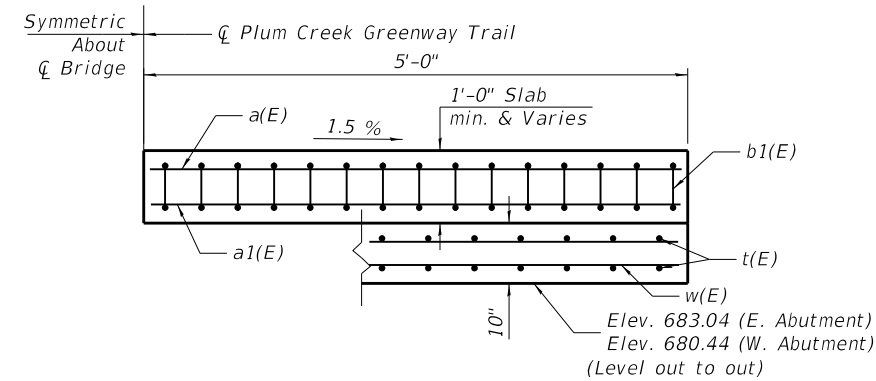
GENERAL PLAN AND ELEVATION
PLUM CREEK GREENWAY TRAIL BRIDGE
OVER PLUM CREEK
WILL COUNTY
STATION 64+00.00

2/5/2025 11:02:43 AM

TWO APPROACHES
BILL OF MATERIAL

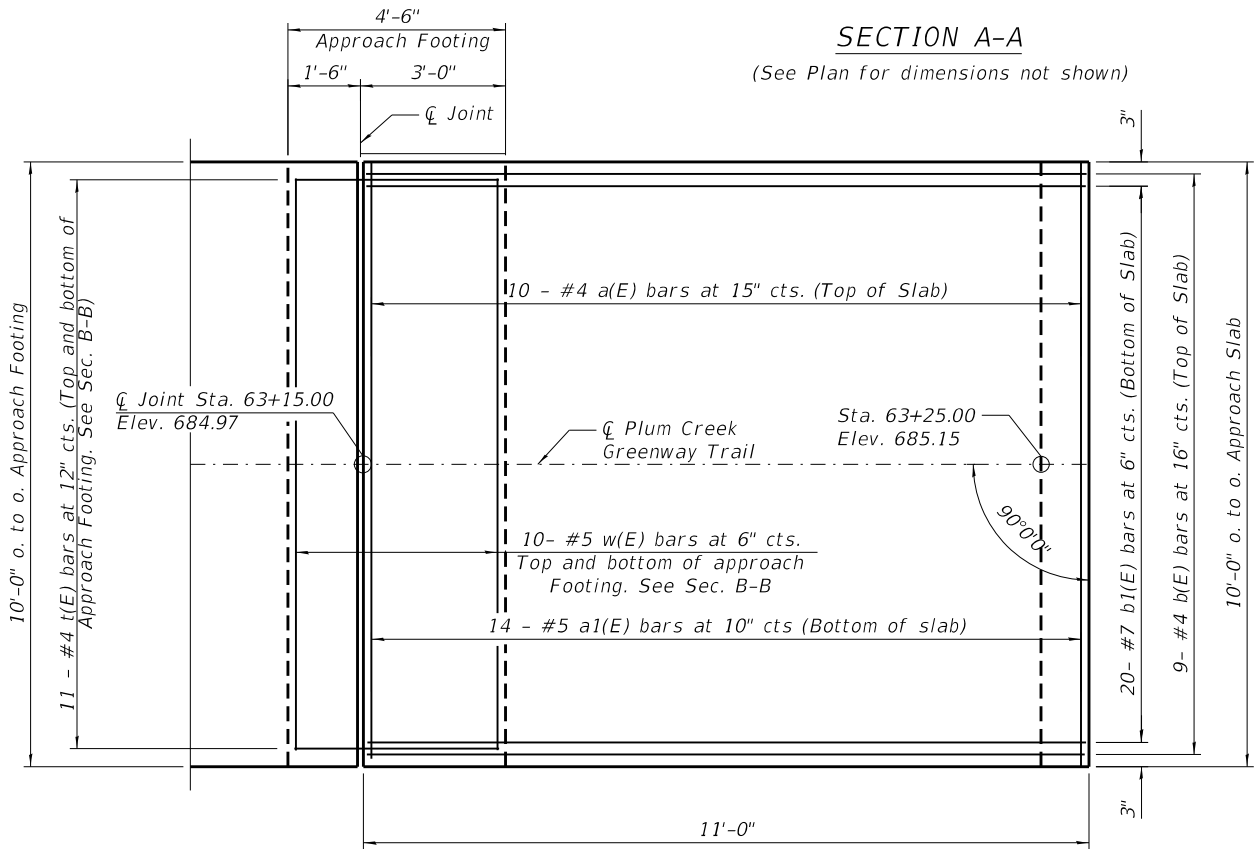
Bar	No.	Size	Length	Shape
a(E)	20	#4	9'-8"	
a1(E)	28	#5	9'-8"	
b(E)	18	#4	10'-6"	
b1(E)	40	#7	12'-2"	
t(E)	44	#4	4'-2"	
w(E)	40	#5	9'-8"	
Concrete Structures			Cu. Yd.	2.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	8.4
Protective Coat			Sq. Yd.	24.4
Reinforcement Bars, Epoxy Coated			Pound	2,060

Notes:
Approach slab concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
The approach footing maximum applied service bearing pressure (max) = 2.0 ksf
Cost of excavation for approach footing included with Concrete Structures.
For v(E) bar details see sheets S-4 and S-5
For Granular Backfill for Structures and drainage treatment details see sheet S-2.

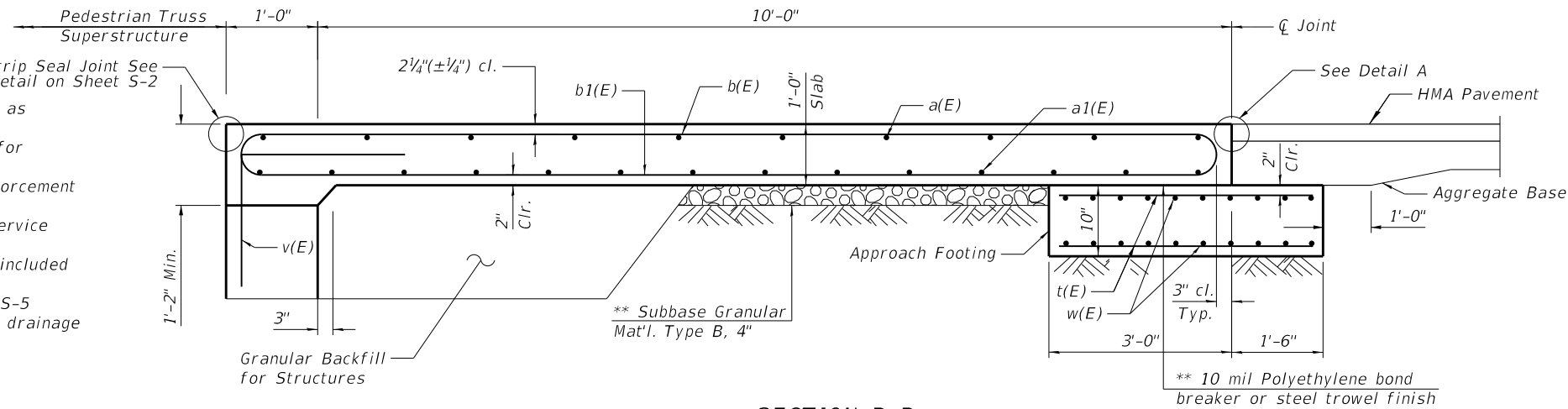


NEAR ABUTMENT AT APPROACH FOOTING

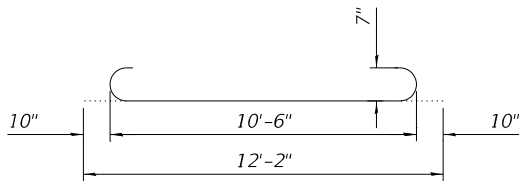
SECTION A-A
(See Plan for dimensions not shown)



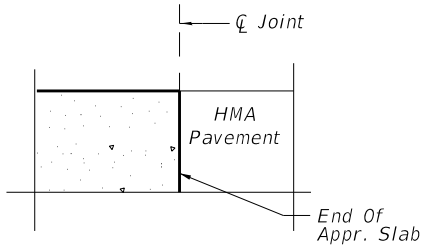
EAST APPROACH - PLAN



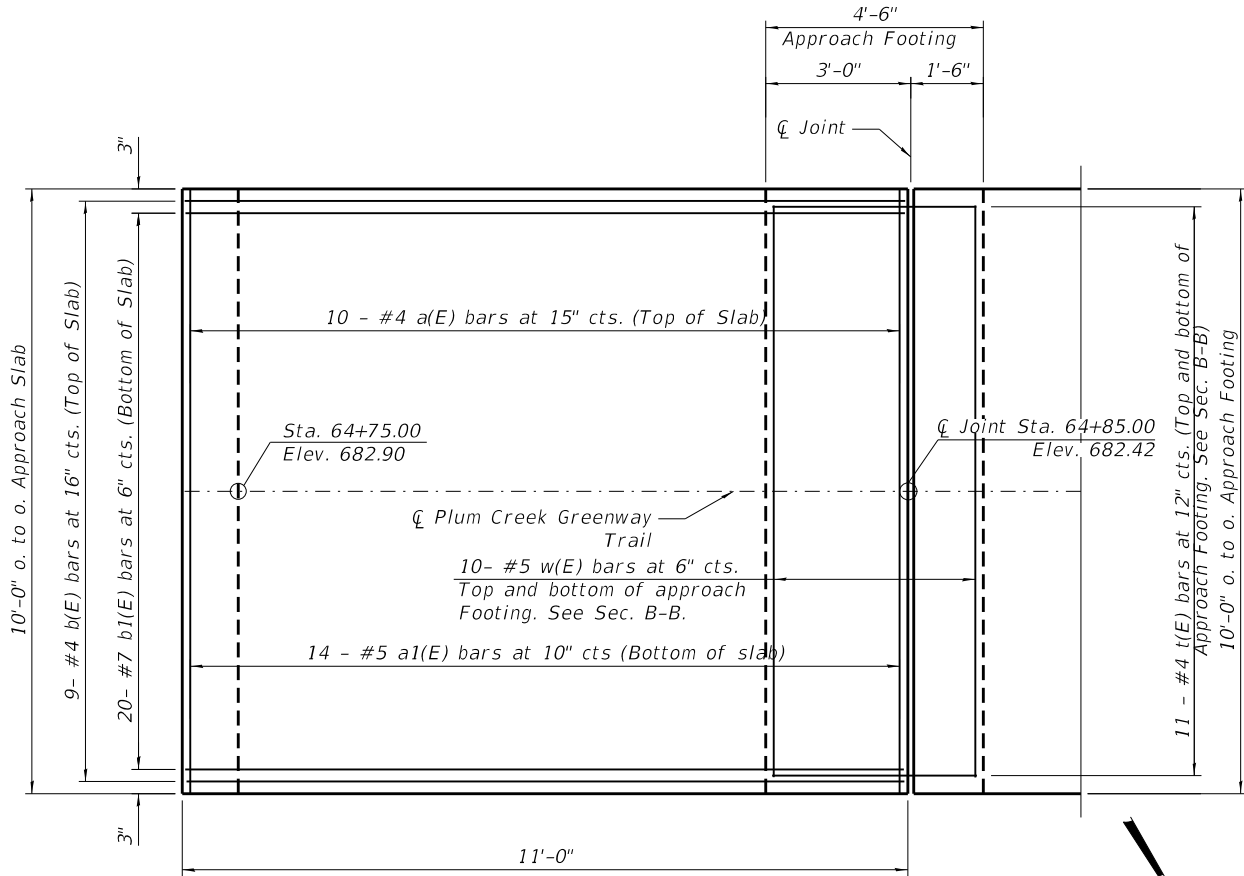
SECTION B-B
** Cost included with Concrete Superstructure



BAR b1(E)



DETAIL A



WEST APPROACH - PLAN

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PLOT DATE	=	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

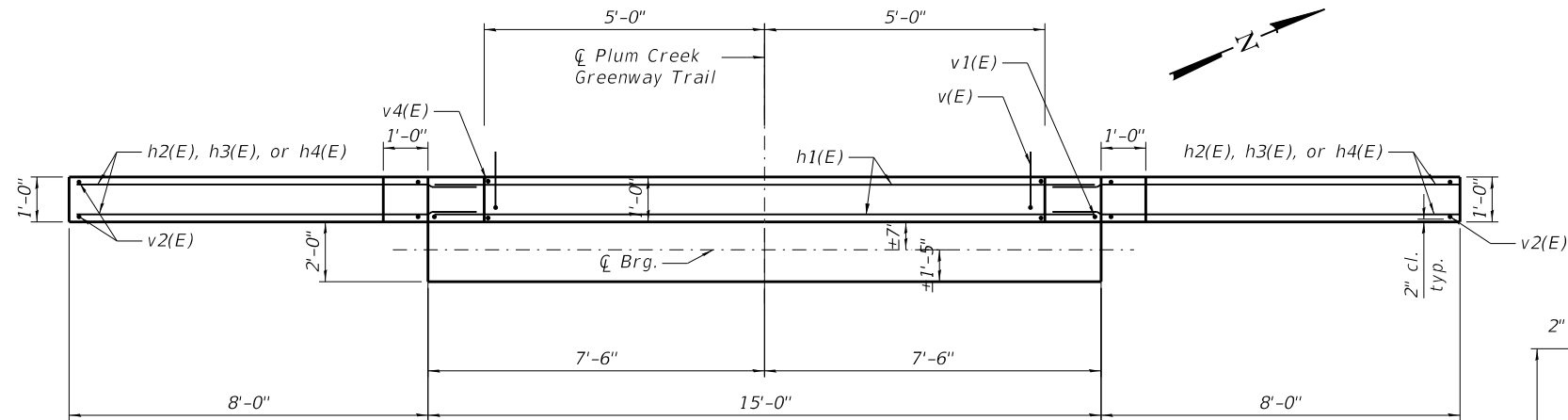
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
PLUM CREEK PEDESTRIAN BRIDGE

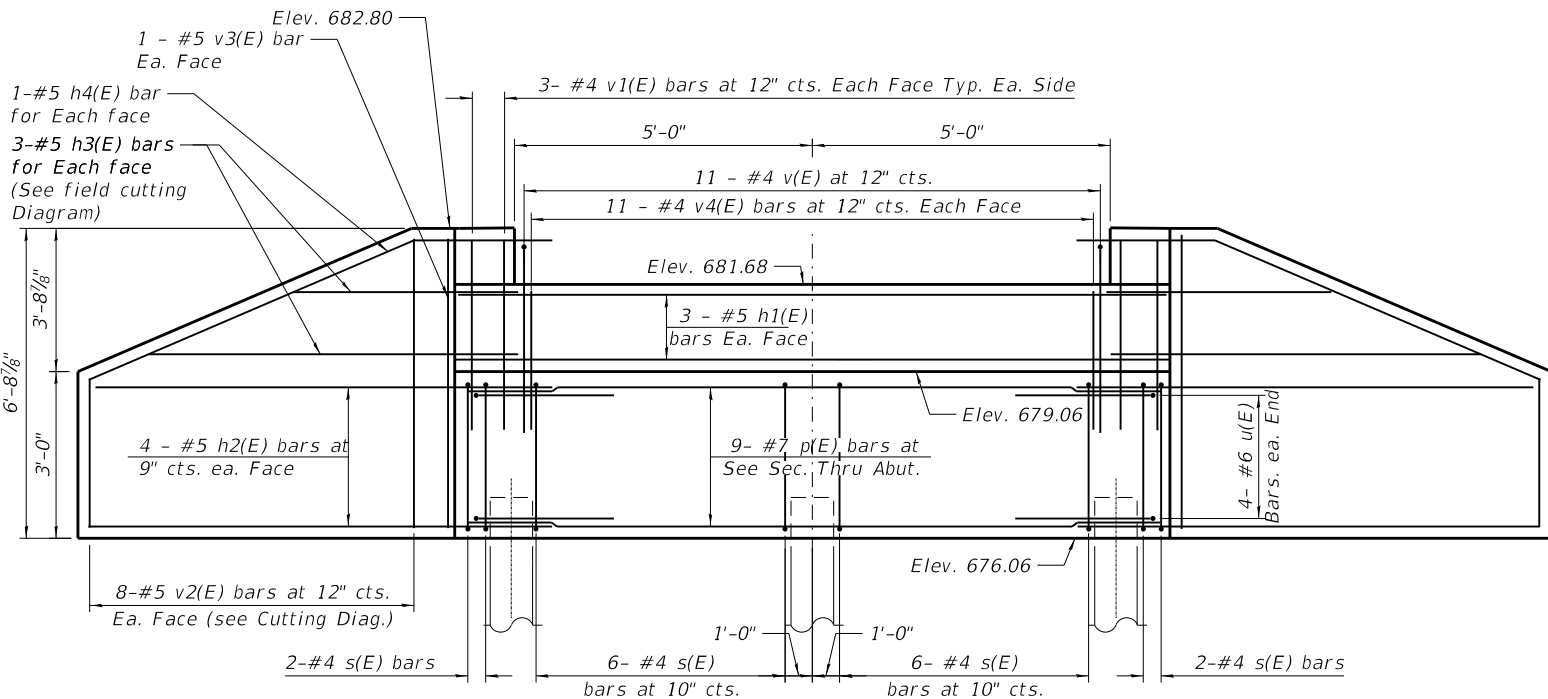
SHEET S-3 OF S-8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	34
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

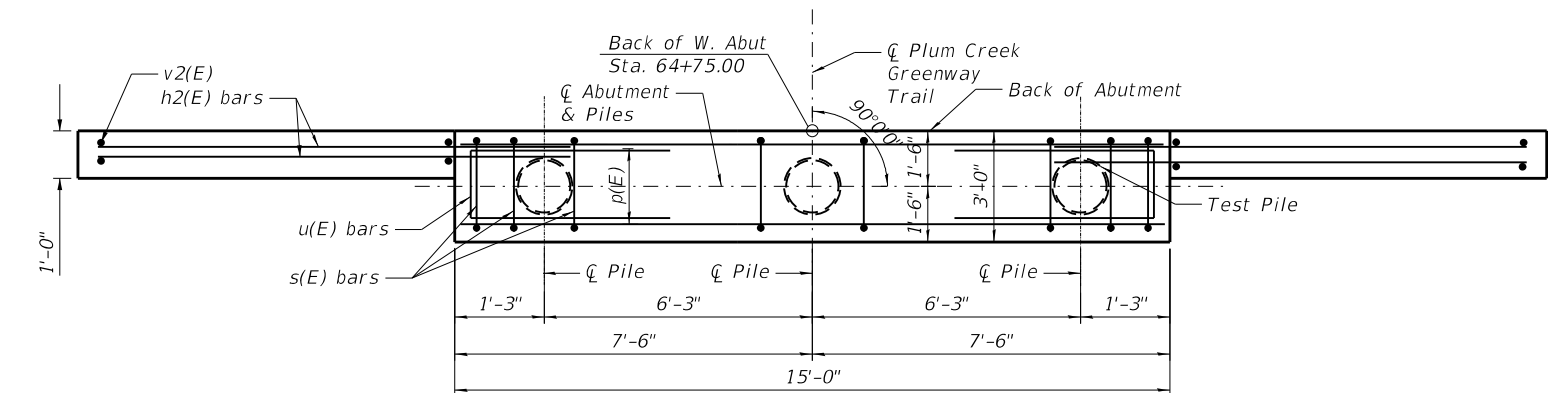
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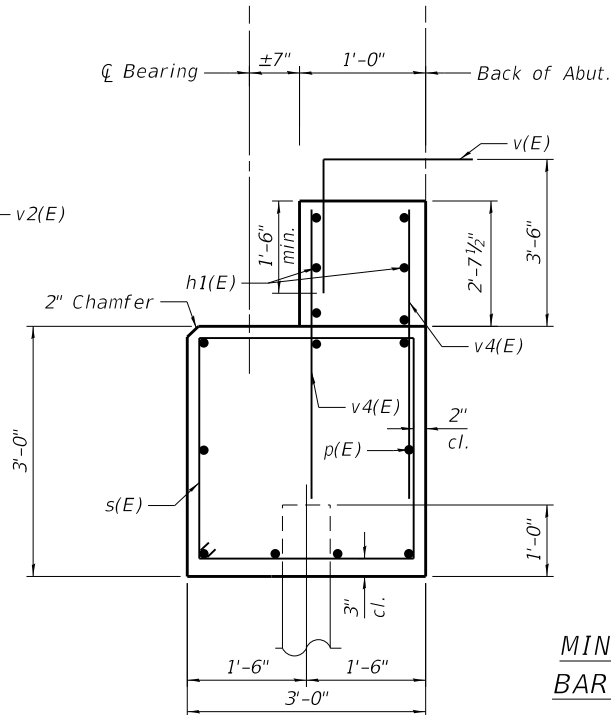
TOP VIEW



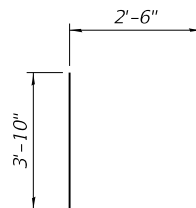
ELEVATION



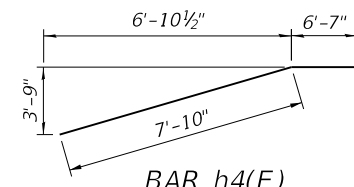
PLAN-PILE CAP



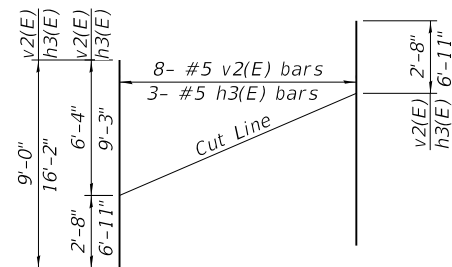
SEC. THRU ABUT.



BAR u(E)

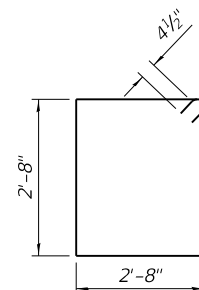


BAR h4(E)



FIELD CUTTING DIAGRAM

Order h3(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	6	#5	14'-8"	
h2(E)	16	#5	11'-7"	
h3(E)	6	#5	16'-2"	
h4(E)	4	#5	14'-5"	
p(E)	9	#7	14'-8"	
s(E)	16	#4	11'-5"	
u(E)	8	#6	10'-2"	
v(E)	11	#4	4'-0"	
v1(E)	12	#4	5'-4"	
v2(E)	16	#5	9'-0"	
v3(E)	4	#5	6'-5"	
v4(E)	22	#4	4'-3"	
Concrete Structures			Cu. Yd.	9.5
Protective Coat			Sq. Yd.	3.7
Reinforcement Bars, Epoxy Coated			Pound	1,280
Furnishing Metal Shell Piles 16"x0.312"			Foot	110
Driving Piles			Foot	110
Test Pile Metal Shells			Each	1
Concrete Sealer			Sq. Ft.	84

PILE DATA

Type: Metal Shell 16"x0.312"
Nominal Required Bearing: 340 kips
Factored Resistance Available: 187 kips
Est. Length: 55 ft
No. Production of Piles: 2
No. Test Piles: 1

Notes:
Concrete clear cover shall be 2" minimum unless noted otherwise.

Anchor Bolt design and locations shall be per Truss Manufacturer.
The Contractor shall place top cap reinforcement to miss anchor bolt locations. Cost of Anchor Bolts is included in the cost of Pedestrian Truss Superstructure.

All edges shall have standard 3/4" chamfers except as noted.

For details of piles, see sheet S-6.

Concrete sealer shall be applied to the beam seat and front face of backwall and cap.

Truss fabricator shall provide a 1" nominal shim pack for each bearing consisting of a 1/2", 1/4" and 2-1/8" shim plates matching the dimensions of the masonry plate provided, including holes for anchor bolts. Cost included in the cost of Pedestrian Truss Superstructure.



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PLOT DATE	=	DRAWN	-
		CHECKED	-

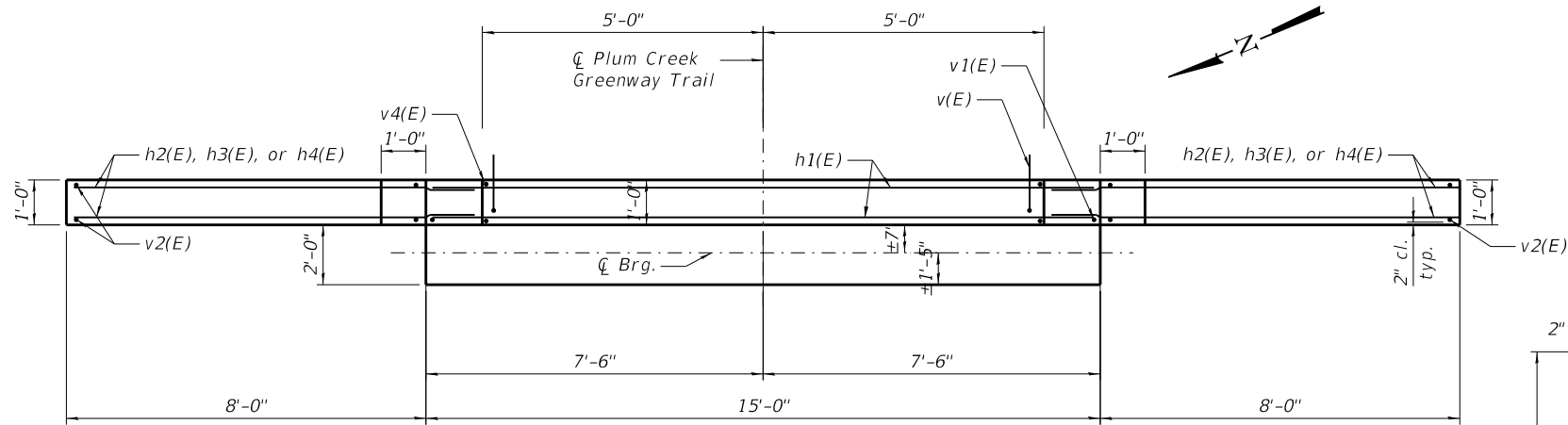
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS
PLUM CREEK PEDESTRIAN BRIDGE

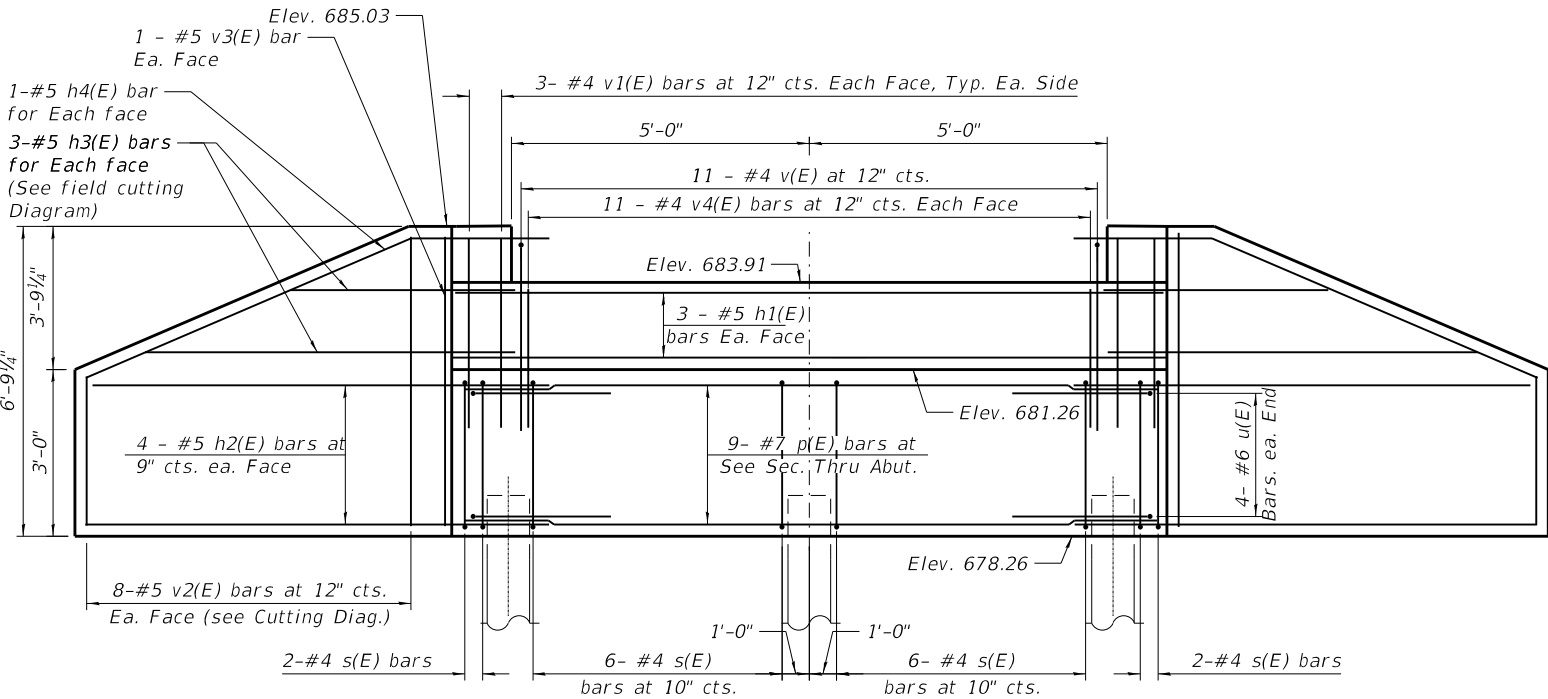
SHEET S-4 OF S-8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	35
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

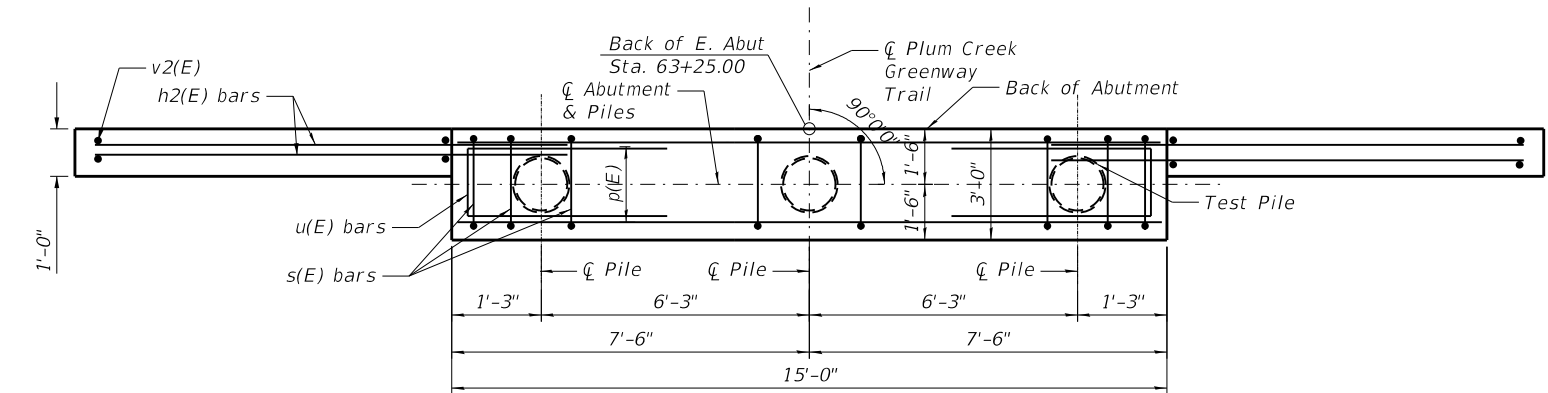
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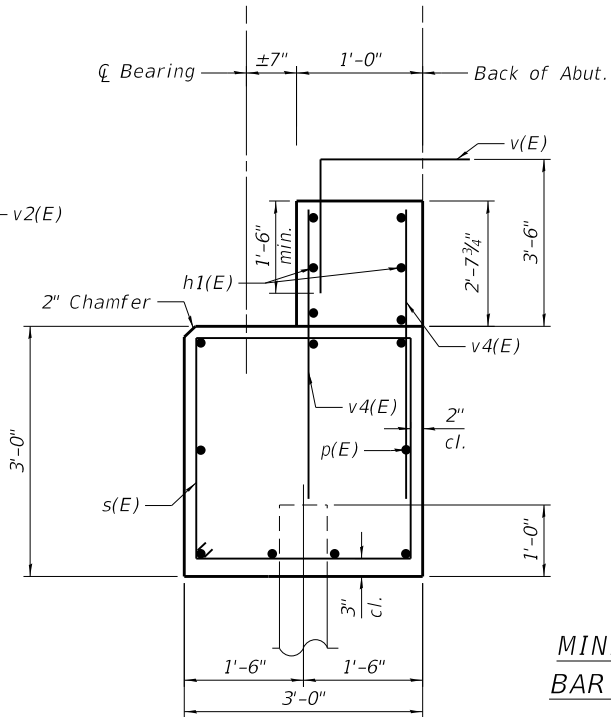
TOP VIEW



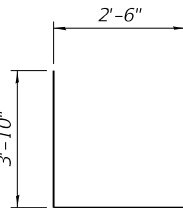
ELEVATION



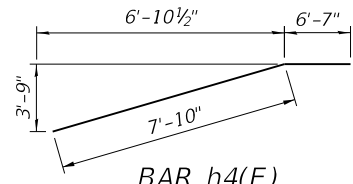
PLAN-PILE CAP



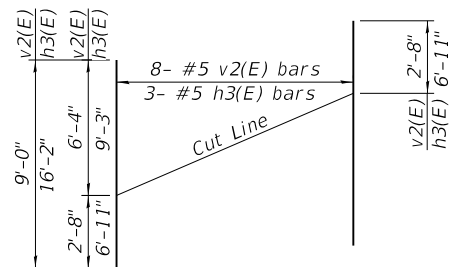
SEC. THRU ABUT.



BAR u(E)

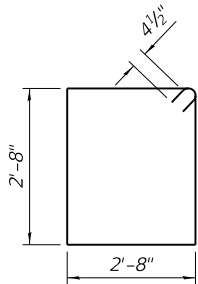


BAR h4(E)



FIELD CUTTING DIAGRAM

Order h3(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	6	#5	14'-8"	
h2(E)	16	#5	11'-7"	
h3(E)	6	#5	16'-2"	
h4(E)	4	#5	14'-5"	
p(E)	9	#7	14'-8"	
s(E)	16	#4	11'-5"	
u(E)	8	#6	10'-2"	
v(E)	11	#4	4'-0"	
v1(E)	12	#4	5'-4"	
v2(E)	16	#5	9'-0"	
v3(E)	4	#5	6'-5"	
v4(E)	22	#4	4'-3"	
Concrete Structures			Cu. Yd.	9.5
Protective Coat			Sq. Yd.	3.7
Reinforcement Bars, Epoxy Coated			Pound	1,280
Furnishing Metal Shell Piles 16"x0.312"			Foot	74
Driving Piles			Foot	74
Test Pile Metal Shells			Each	1
Concrete Sealer			Sq. Ft.	85

PILE DATA

Type: Metal Shell 16"x0.312"
Nominal Required Bearing: 340 kips
Factored Resistance Available: 187 kips
Est. Length: 37 ft
No. Production of Piles: 2
No. Test Piles: 1

Notes:
Concrete clear cover shall be 2" minimum unless noted otherwise.

Anchor Bolt design and locations shall be per Truss Manufacturer.
The Contractor shall place top cap reinforcement to miss anchor bolt locations. Cost of Anchor Bolts is included in the cost of Pedestrian Truss Superstructure.

All edges shall have standard 3/4" chamfers except as noted.

For details of piles, see sheet S-6.

Concrete sealer shall be applied to the beam seat and front face of backwall and cap.

Truss fabricator shall provide a 1" nominal shim pack for each bearing consisting of a 1/2", 1/4" and 2-1/8" shim plates matching the dimensions of the masonry plate provided, including holes for anchor bolts. Cost included in the cost of Pedestrian Truss Superstructure.



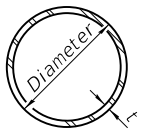
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PLOT DATE	=	DRAWN	-	REVISED	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DETAILS
PLUM CREEK PEDESTRIAN BRIDGE

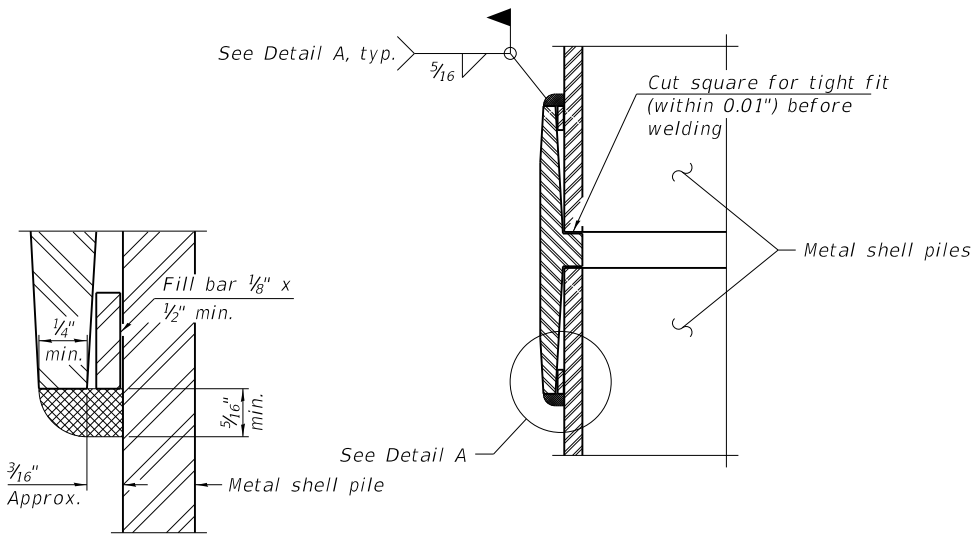
SHEET S-5 OF S-8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	36
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

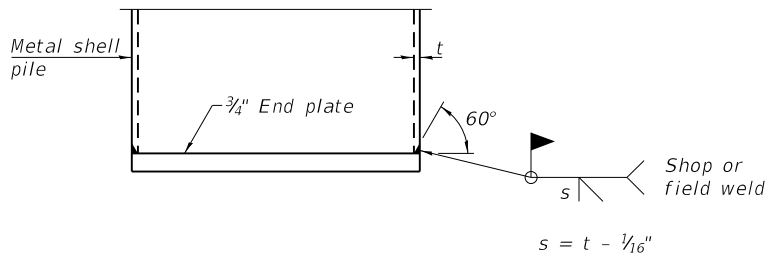


METAL SHELL PILE TABLE

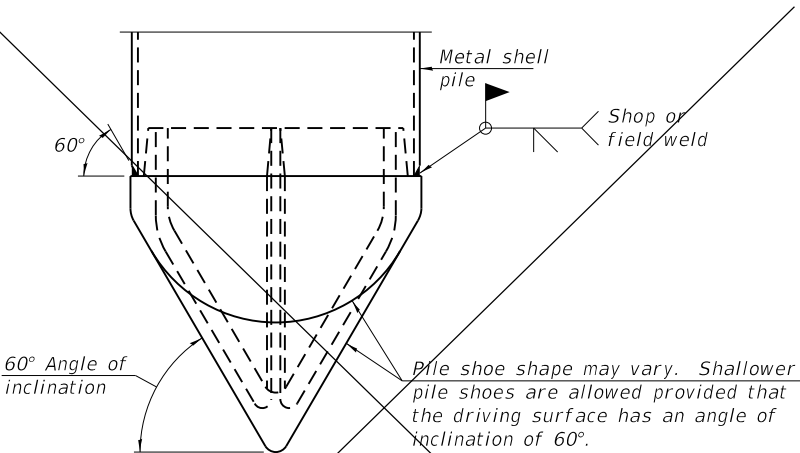
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A



END PLATE ATTACHMENT

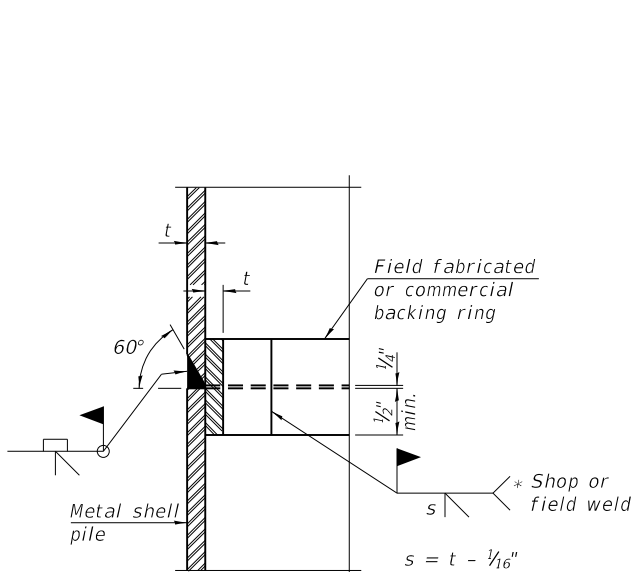


PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

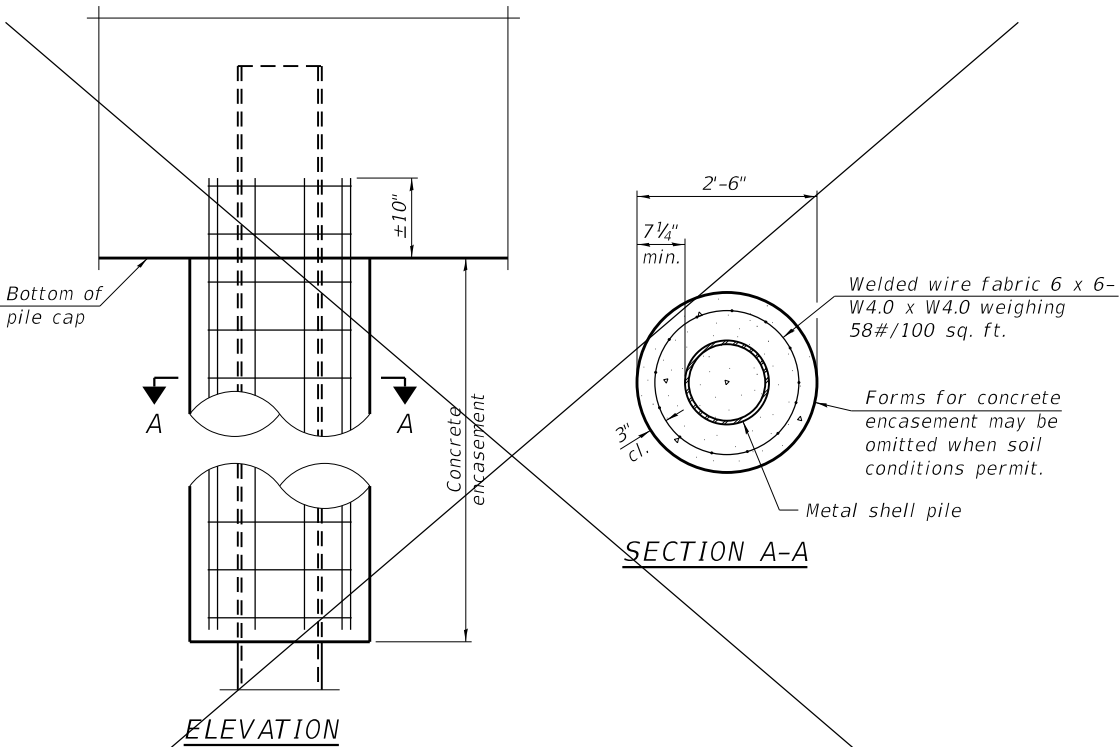
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

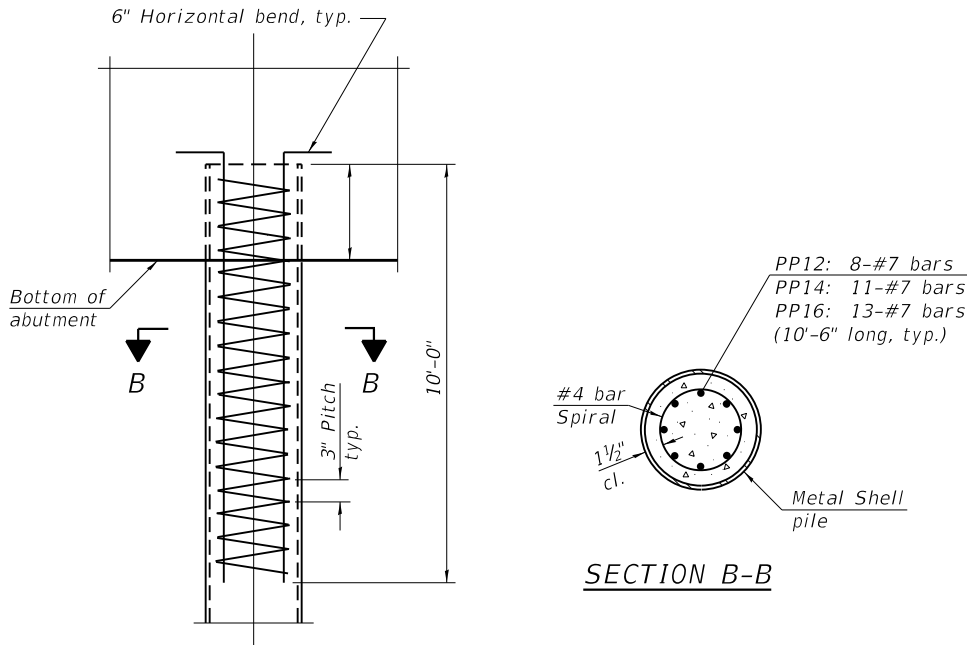


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



INDIVIDUAL PILE CONCRETE ENCASEMENT
(When specified)



ELEVATION

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS

1-1-2020



USER NAME	=	DESIGNED	-	REVISED	-
PLOT SCALE	=	CHECKED	-	REVISED	-
PLOT DATE	=	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
PLUM CREEK PEDESTRIAN BRIDGE

SHEET S-6 OF S-8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	37
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

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BORING NO. B-4
PAGE 1 OF 2

CLIENT Terra Engineering

PROJECT NAME Plum Creek Trail Improvements

PROJECT NUMBER 21-G0323

PROJECT LOCATION Crete, Illinois

DATE COMPLETED 3/17/21

LOGGED BY Ken/Tom

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS						
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX				
0																		
	680.5		dark brown CLAY very stiff, moist	SS 1	100	3-4-6 (10)	3.75	3.2	20.3									
			brown and gray LEAN CLAY very stiff to hard, moist	SS 2	89	4-6-9 (15)	4.5+	5.2	20.6									
	674.0			SS 3	100	3-8-8 (16)	4.5+		13.5									
10			brown and gray SANDY CLAY stiff to very stiff, moist	SS 4	100	2-4-6 (10)	2.75		16.9									
	669.0			ST 1	92		1.75	1.05	20.9	108.4								
			brown and gray LEAN CLAY very stiff, moist	SS 5	100	2-3-3 (6)	2.0	2.2	29.2									
	664.0																	
20			gray LEAN CLAY stiff to very stiff, moist	SS 6	100	2-4-6 (10)	4.0	4.0	18.3									
				SS 7	100	3-8-9 (17)	3.25	3.0	18.3									
				SS 8	89	3-4-5 (9)	1.75	1.8	20.1									
				ST 2	100		2.5	1.85	19.7	111.5								
40			SS 9	89	2-4-6 (10)	2.0	2.1	16.0										
	638.0																	
		gray SILTY SAND medium dense, wet	SS 10	100	5-7-13 (20)			21.3										
50	632.5		gray LEAN CLAY very stiff, moist	SS 11	100	8-8-9 (17)	2.75		13.4 13.8									

COMPLETION DEPTH 83 ft GROUND ELEVATION 682 ft

CAVE DEPTH ft BACKFILL Soil Cuttings

GROUND WATER LEVELS:
▽ AT TIME OF DRILLING 44.00 ft / Elev 638.00 ft
▼ AT END OF DRILLING 44.00 ft / Elev 638.00 ft
AFTER DRILLING

Notes:
Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.



BORING NO. B-4
PAGE 2 OF 2

CLIENT Terra Engineering

PROJECT NAME Plum Creek Trail Improvements

PROJECT NUMBER 21-G0323

PROJECT LOCATION Crete, Illinois

DATE COMPLETED 3/17/21

LOGGED BY Ken/Tom

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS					
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
	629.0		gray SILTY SAND medium dense, wet	SS 12	100	7-7-10 (17)			17.3								
				SS 13	100	8-12-17 (29)			22.8								
60																	
	619.0																
			gray LEAN CLAY stiff, moist	SS 14	100	2-3-5 (8)	1.25	1.3	31.5								
	615.0																
70			gray SILTY SAND/SANDY SILT medium dense, wet	SS 15	83	13-12-13 (25)			19.9								
				SS 16	78	11-12-12 (24)			21.6								
	604.0																
80			SAND and GRAVEL medium dense, wet	SS 17	44	14-12-15 (27)			12.0								
	599.0																
Refusal at 83.0 feet. Bottom of borehole at 83.0 feet.																	
Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.																	



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	=	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK PEDESTRIAN BRIDGE

SHEET S-7 OF S-8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	38
CONTRACT NO. 61K44				
ILLINOIS		FED. AID PROJECT		

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BORING NO. B-5
PAGE 1 OF 2

CLIENT Terra Engineering

PROJECT NAME Plum Creek Trail Improvements

PROJECT NUMBER 21-G0323

PROJECT LOCATION Crete, Illinois

DATE COMPLETED 3/23/21

LOGGED BY Robert/Ken

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS					
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
0																	
	675.4		dark brown CLAY with wood fragments stiff, moist	SS 1	33	3-4-5 (9)	2.5		32.1								
			brown SANDY CLAY soft to stiff, moist	SS 2	72	2-3-4 (7)	1.5	1.2	31.6								
				SS 3	67	2-3-4 (7)	2.0		20.3								
10				SS 4	44	1-2-2 (4)	<0.25	0.2	18.5								
	667.4		gray SILTY SAND very loose, wet	SS 5	100	1-1-2 (3)			27.7								
				SS 5	44	1-2-3 (5)			30.1								
	661.4		gray LEAN CLAY stiff, moist	SS 6	100	4-4-4 (8)	2.0	1.1	21.4								
20			Sand seam noted at about 34'	SS 7	100	3-3-5 (8)	1.0	1.0	18.3								
				SS 8	100	2-3-4 (7)	1.25	1.1	22.0								
				SS 9	56	5-3-5 (8)	2.0	1.5	14.9								
	640.4		gray SILTY SAND loose, wet	SS 10	56	4-4-5 (9)			21.1								
40			gray SILT loose, wet	SS 11	78	3-4-6 (10)			23.4								
	636.4																
	631.4		gray SILTY SAND loose, wet	SS 12	89	3-4-5 (9)			27.1								
50																	

COMPLETION DEPTH 78.8 ft

GROUND ELEVATION 679.4 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:
▽ AT TIME OF DRILLING 12.00 ft / Elev 667.40 ft
▼ AT END OF DRILLING 12.00 ft / Elev 667.40 ft
AFTER DRILLING ---

NOTES

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

BORING NO. B-5
PAGE 2 OF 2

CLIENT Terra Engineering

PROJECT NAME Plum Creek Trail Improvements

PROJECT NUMBER 21-G0323

PROJECT LOCATION Crete, Illinois

DATE COMPLETED 3/23/21

LOGGED BY Robert/Ken

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS					
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX			
	626.4		gray SILTY SAND/SANDY SILT trace gravel medium dense, wet	SS 13	83	8-8-12 (20)			25.5								
				SS 14	89	7-10-13 (23)			13.3								
60																	
	616.4			SAND and GRAVEL medium dense to very dense, wet	SS 15	89	17-22-18 (40)			7.1							
				SS 16	56	13-15-10 (25)			8.0								
70				SS 17	67	13-20-19 (39)			8.9								
	600.6				SS 18	100	50/3"			11.3							
			Refusal at 78.8 feet. Bottom of borehole at 78.8 feet.														

Lines of Demarcation represent an **approximate** boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 4/5/21 14:26 - C:\USERS\NHAG\DESKTOP\POINT FOLDER\21-G0323.GPJ



USER NAME	=	DESIGNED	-
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PLOT SCALE	=	DRAWN	-
		REVIS	-
PLOT DATE	=	CHECKED	-
		REVIS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK PEDESTRIAN BRIDGE

SHEET S-8 OF S-8 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	39
CONTRACT NO. 61K44				
		ILLINOIS	FED. AID PROJECT	

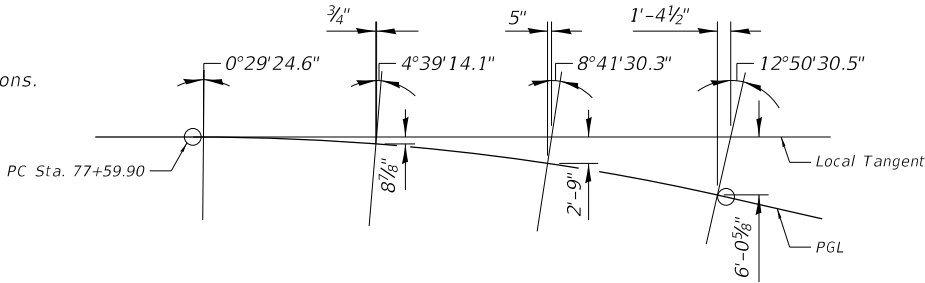
Benchmark: MAG Nail at the south end on the trail pnt #2700 el 727.36

Existing Structure: N/A

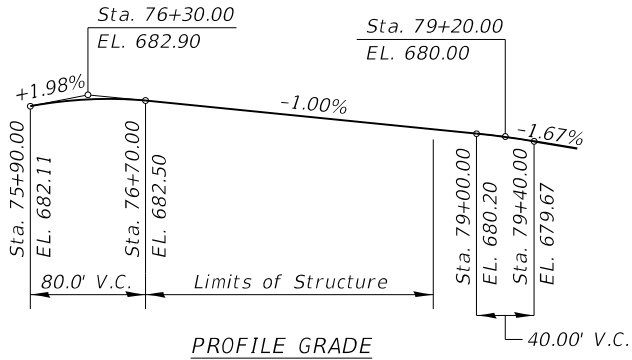
New Structure: New Boardwalk is prefabricated concrete plank with prefabricated concrete beams on drilled shaft pier foundations.

INDEX OF SHEETS

- 1 General Plan & Elevation 1
- 2 General Plan & Elevation 2
- 3 General Plan & Elevation 3
- 4 Offset Sketches
- 5 General Notes & Bill of Materials
- 6 Approach Slab Details
- 7 Boardwalk Details
- 8 Railing Details
- 9-18 Boring Logs



OFFSET SKETCH



PROFILE GRADE

DESIGN LOADING

Live Load: Pedestrian Live Load 90 Lb./Sq. Ft.
Maintenance Vehicle: AASHTO H10 Truck
Applied Separately From The Uniform Live Load

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.
2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges.

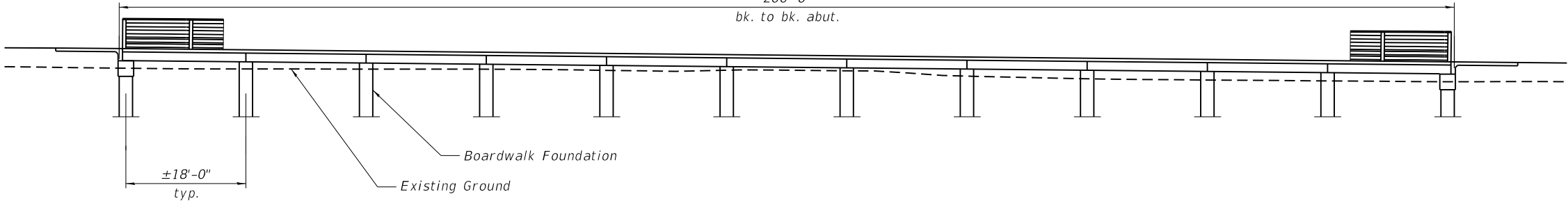
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.07
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.11
Soil Site Class = D

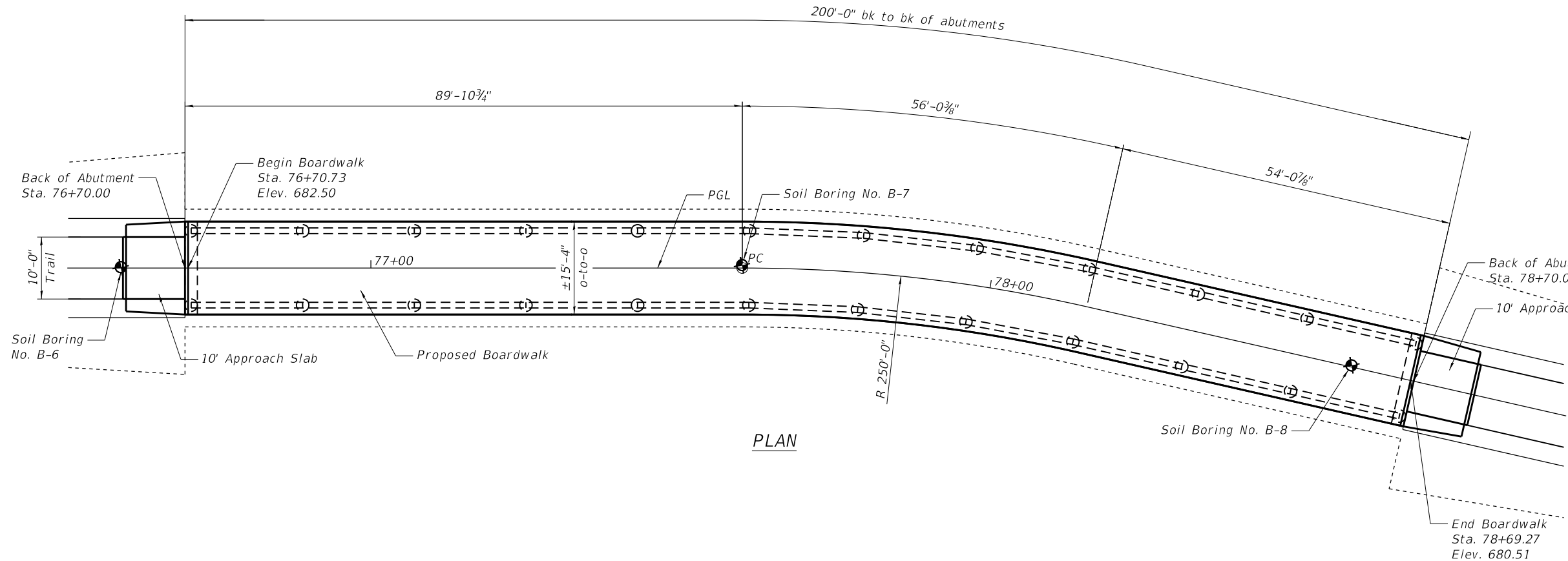
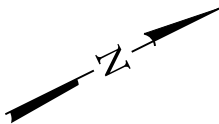
DESIGN STRESSES

FIELD UNITS

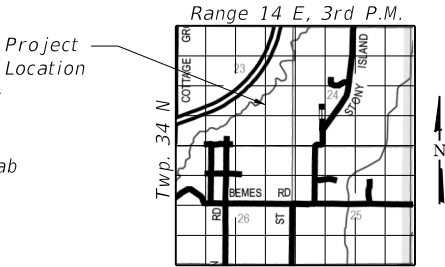
f'c = 3,500 psi (Substructure)
f'c = 4,000 psi (Superstructure)
f'c = 4,000 psi (Drilled Shafts & Approaches)
fy = 60,000 psi (Reinforcement)



ELEVATION



PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
PLUM CREEK GREENWAY
PROPOSED BOARDWALKS
WILL COUNTY
STA 76+70.00 TO STA. 78+70.00

	USER NAME =		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION PLUM CREEK BOARDWALKS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =		CHECKED -	REVISED -					20-F3000-06-BT	WILL	88	40
	PLOT DATE = 02/12/2025		DRAWN -	REVISED -				CONTRACT NO. 61K44				
			CHECKED -	REVISED -		SHEET 1 OF 18 SHEETS		ILLINOIS FED. AID PROJECT				

MODEL: Default
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Benchmark: MAG Nail at the south end on the trail pnt #2700 el 727.36

Existing Structure: N/A

New Structure: New Boardwalk is prefabricated concrete plank with prefabricated concrete beams on drilled shaft pier foundations.

1" Ø Anchor bolts for Type 5 terminal connections only, see View B-B and Highway Standard 631026. For Type 6 terminal connections, see Highway Standard 631031.

DESIGN LOADING

Live Load: Pedestrian Live Load 90 Lb./Sq. Ft.
Maintenance Vehicle: AASHTO H10 Truck
Applied Separately From The Uniform Live Load

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.
2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges.

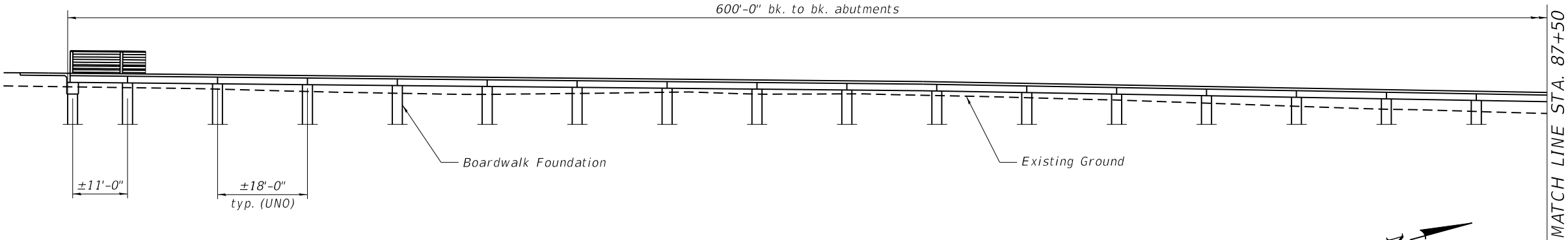
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.07
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.11
Soil Site Class = D

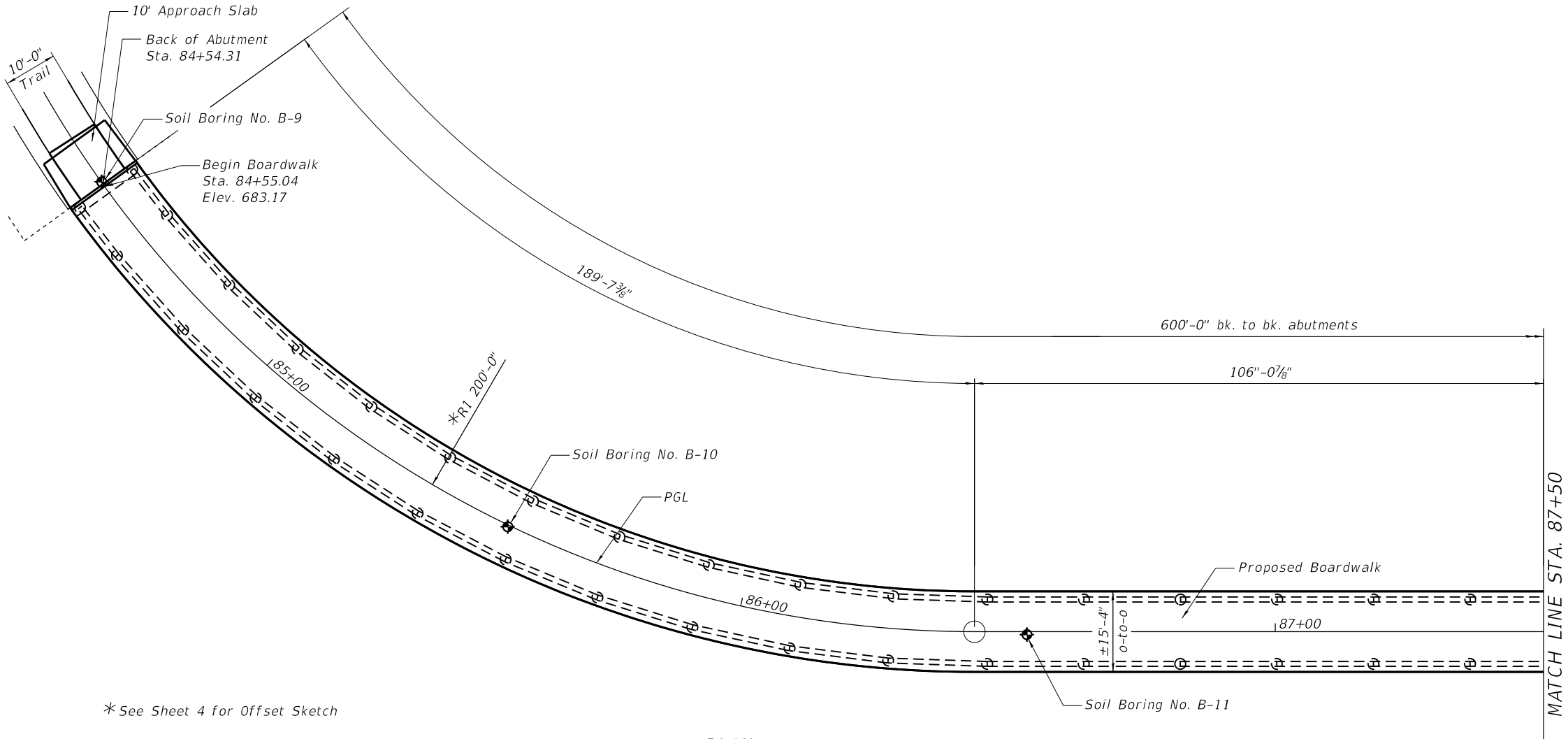
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Substructure)
f'c = 4,000 psi (Superstructure)
f'c = 4,000 psi (Drilled Shafts & Approaches)
fy = 60,000 psi (Reinforcement)

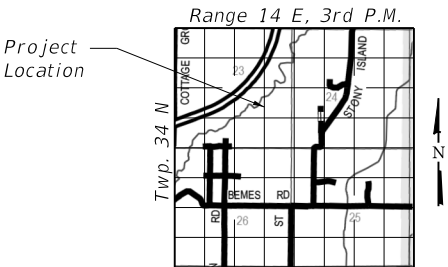


ELEVATION



* See Sheet 4 for Offset Sketch

PLAN



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

PLUM CREEK GREENWAY

PROPOSED BOARDWALKS

WILL COUNTY

STA 84+54.31 TO STA. 90+54.31



USER NAME	=	DESIGNED	-	REVISED	-
PLOT SCALE	=	CHECKED	-	REVISED	-
PLOT DATE	=	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

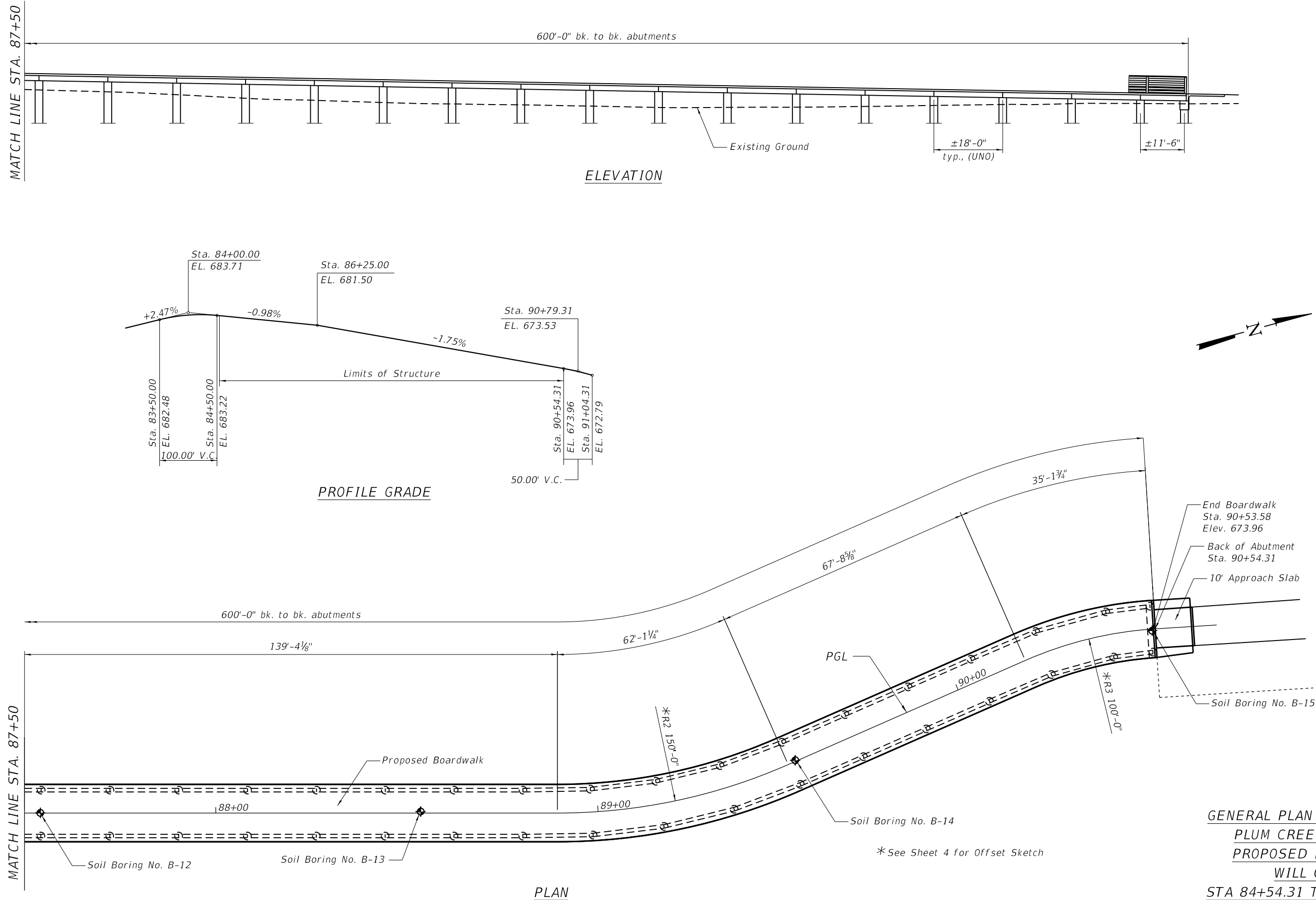
GENERAL PLAN AND ELEVATION
PLUM CREEK BOARDWALKS

SHEET 2 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

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GENERAL PLAN AND ELEVATION
PLUM CREEK GREENWAY
PROPOSED BOARDWALKS
WILL COUNTY
STA 84+54.31 TO STA. 90+54.31



USER NAME	=	DESIGNED	-	REVISED	-
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

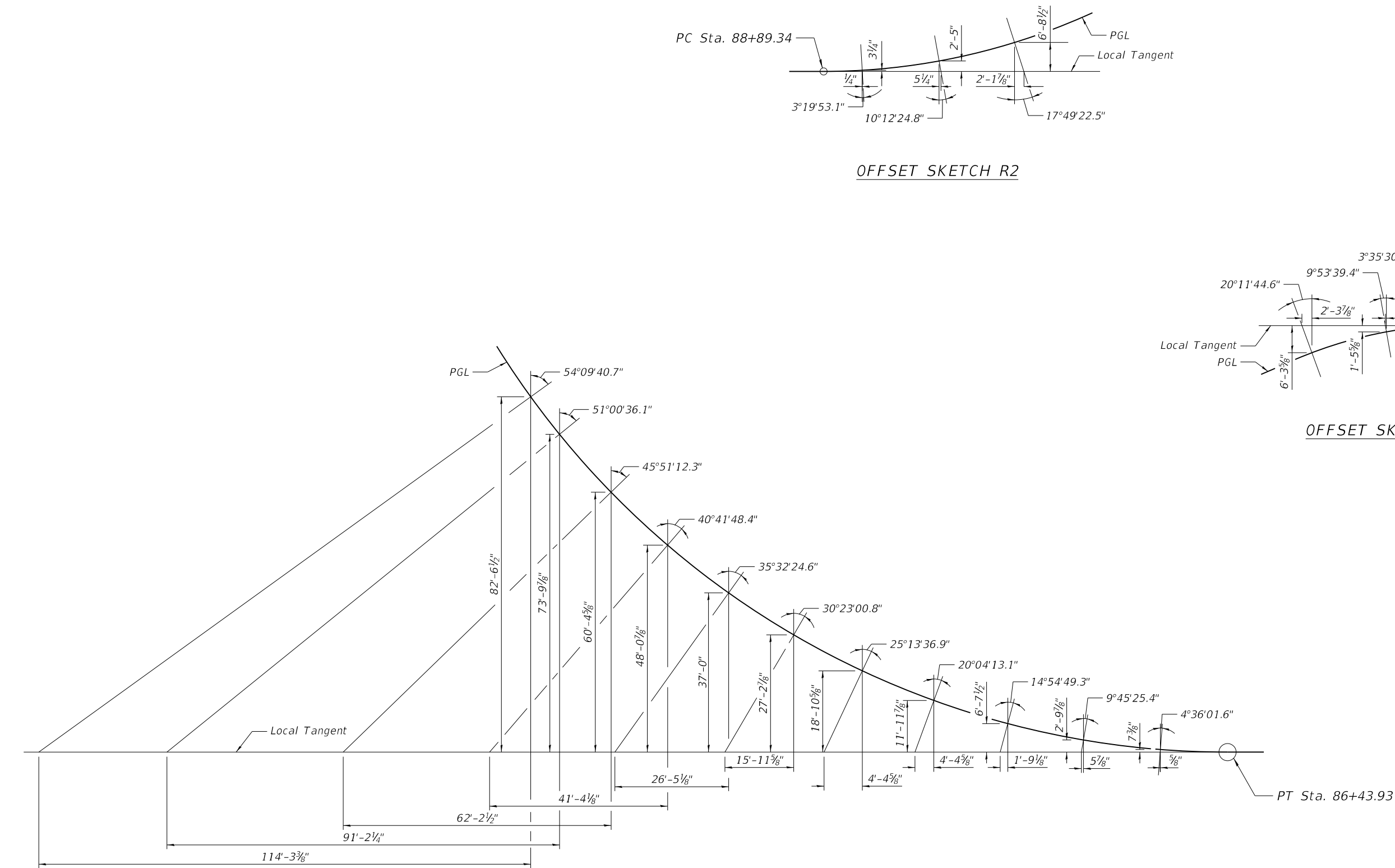
GENERAL PLAN AND ELEVATION
PLUM CREEK BOARDWALKS

SHEET 3 OF 18 SHEETS

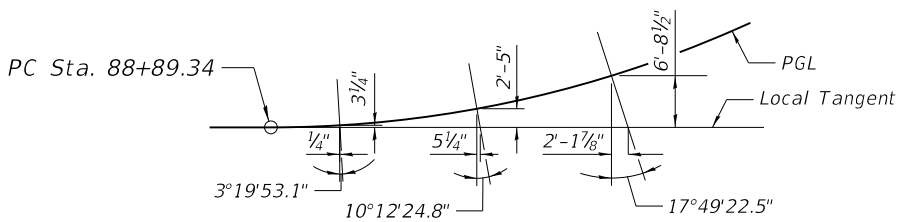
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CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

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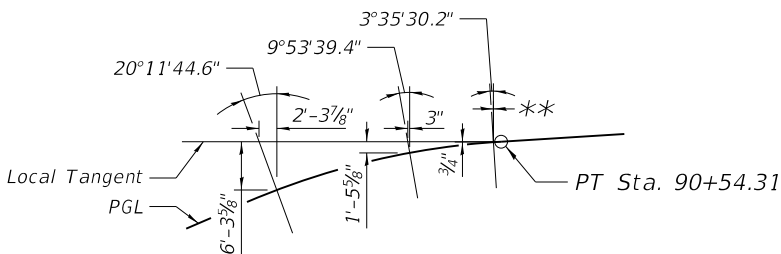
2/5/2025 10:51:01 AM



OFFSET SKETCH R1



OFFSET SKETCH R2



OFFSET SKETCH R3



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PLOT SCALE	=	CHECKED	-	REVISED	-
PLOT DATE	=	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OFFSET SKETCHES
PLUM CREEK BOARDWALKS

SHEET 4 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

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GENERAL NOTES

1. All work shall be done in accordance to the Illinois Department of Transportation (IDOT) Standard Specification for Road and Bridge Construction, adopted January 1, 2022, and Supplemental Specifications and recurring Special Provisions, adopted January 1, 2025, unless noted otherwise. Construction Plans and Subsequent Details are all to be considered as part of the Contract. Incidental Items or Accessories necessary to complete this work may not be specifically noted but are considered a part of the Contract.
2. No Construction Plans shall be used for Construction unless specifically Marked for Construction. Prior to commencement of construction, the Contractor shall verify all dimensions and conditions affecting the work with the actual conditions, if there are discrepancies between the Job site and what is shown on the construction plans, the contractor must immediately report to Engineer before doing any work, otherwise the Contractor shall assume full responsibility. In the event of disagreement between the plans and existing conditions and or details, the Contractor shall secure written Instruction from the Engineer prior to proceeding with any part of the work affected by omissions or discrepancies. In 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 questions arising with respect to the true meaning of the Construction Plans or Specifications, the decision of the Engineer shall be final and conclusive.
3. Contractor shall verify all topographic Information and grade elevations adjacent to boardwalk prior to proceeding, Inform Engineer of any variation.

CAST-IN-PLACE CONCRETE

1. All cast-in-place concrete work and reinforcing steel work shall be in accordance with Sections 503 and 508 respectively of the IDOT Standard Specifications for Road and Bridge Construction, adopted January 1, 2022, and Supplemental Specifications and Recurring Special Provisions and as noted below.
2. Cover from the face of concrete to face of reinforcement shall be 3" for surfaces cast against earth and 2" for all other surfaces unless otherwise noted.
3. Reinforcement Bars designated (E) shall be Epoxy Coated.
4. Reinforcing bar bending dimensions are out-to-out.
5. All exposed concrete edges shall be beveled $\frac{3}{4}$ ".

PRECAST CONCRETE BOARDWALK

1. Abutments and Drilled Shafts shall be designed for lateral earth pressure, live load surcharge, and structure loads.

Pier Loads are based upon a maximum longitudinal spacing of 20'-0", unless noted otherwise.

Compression: 33.9 kips (Service)
Lateral Wind: 2.2 kips (Service)

The Contractor shall be responsible for the design, materials, and installation of the drilled shaft foundation piers, cast in place concrete grade beam supports, and railing for the Boardwalk Structure. All foundation locations shown in the boardwalk plans are approximate and shall be determined in the final boardwalk design. All details are approximate and are to be used for estimate purposes only. Contractor shall be coordinate design of support foundations and railings with boardwalk precast plank manufacturer prior to delivery of final design package for review. See Special Provisions for more details.

2. All bolts, nuts, washers, and hardware shall be hot-dipped galvanized after fabrication in accordance with ASTM A153.
3. Contractor shall accommodate thermal expansion and meet all code requirements for pedestrian rail loading and configuration requirements, including the limits on the size of opening allowed. Cost for the design, fabrication and installation of rail is included in BOARDWALK STRUCTURE. See Boardwalk Structure special provision for more information.

CONSTRUCTION

1. Do not scale dimensions for construction. Scale, if shown, applies only to full size drawings.
2. No construction joints, except those shown on the plans, will be allowed unless directed by the Engineer.
3. Any information concerning type or location of underground and other utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of the utilities as may be necessary to avoid damage thereto. Contractor shall call J.U.L.I.E. and the Engineer prior to excavation.
4. Shop working or layout drawings pertaining to the construction of the work, as may be required, shall be submitted to the Engineer for approval prior to the start of construction. Shop drawing shall be signed and sealed by a Structural Engineer licensed in State of Illinois.

5. Upon completion, the contractor shall collect and remove all construction debris and excess material from the site. Damaged trees, shrubs, and other landscape features resulting from construction activities shall be replaced or repaired.
6. All bearing surfaces must be true and level.
7. Contractor must coordinate with Boardwalk Manufacturer to ensure proper placement of cast-in-place anchors. If the contractor elects to use post-installed anchors in lieu of cast-in-place anchors, he must coordinate the plate dimensions, bolt spacing and bolt quantity with the Boardwalk Manufacturer and get approval from Manufacturer's Engineer of Record prior to construction.

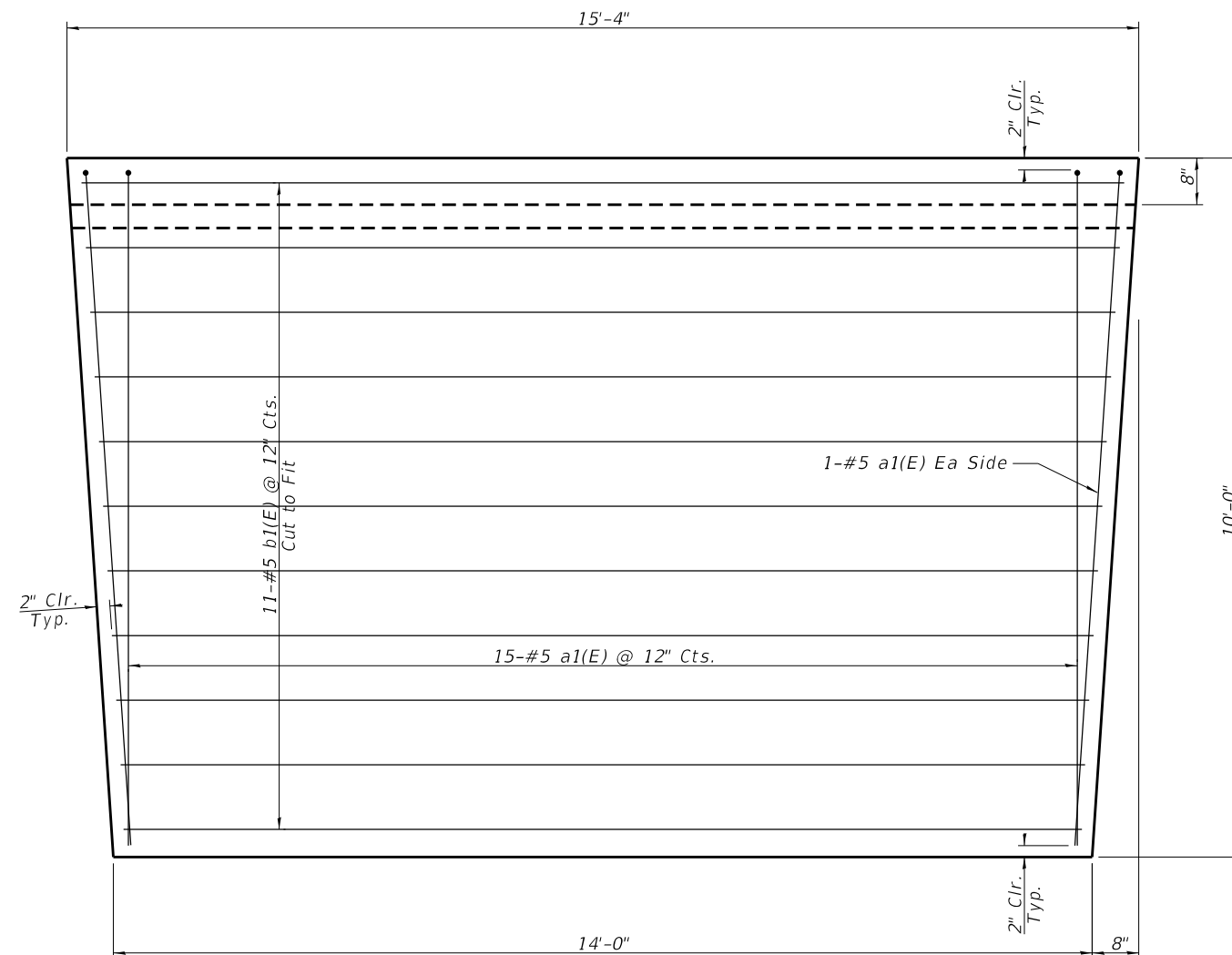
8. Minimal disturbance of the wetlands and conservation of trees is critical. Given the limited working space for boardwalk construction, the Contractor shall utilize top-down construction methods. The Contractor shall remain in the working area and minimize wetland disturbance by placing protective mats or other measures for installation of the drilled shaft foundations. No additional compensation will be provided based on the limited access and construction area. All precast elements of the boardwalk shall be installed using equipment operating from the top of the new boardwalk structure.

ABBREVIATIONS

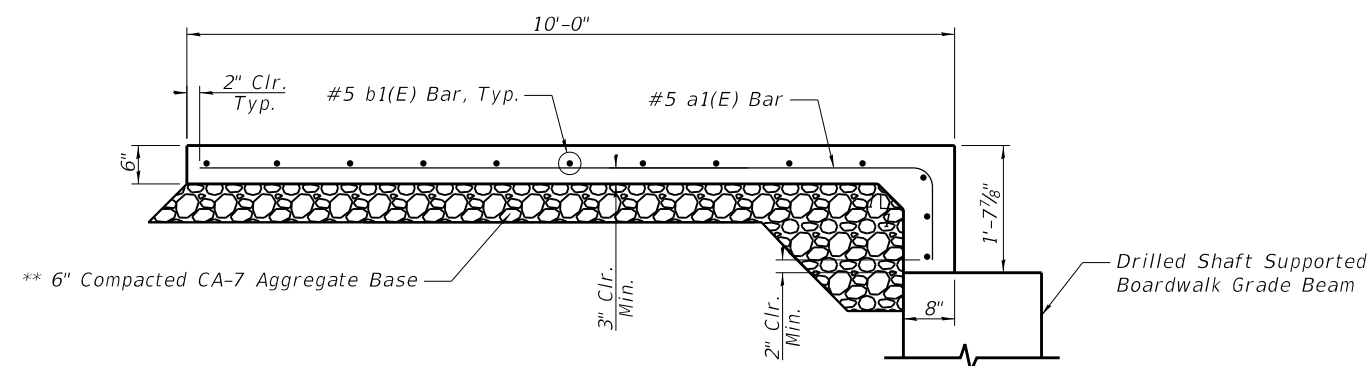
Appr.	Approach
Approx.	Approximate
Conc.	Concrete
CL	Centerline
Clr.	Clearance
Cts.	Centers
Dia.	Diameter
Ø	Diameter
El.	Elevation
Exist.	Existing
Galv.	Galvanized
HDG	Hot Dip Galvanized
Min.	Minimum
O.C.	On Center
PL	Plate
S.S.	Stainless Steel
Sta.	Station
Typ.	Typical
UNO	Unless Noted Otherwise
WS	Water Surface

BILL OF MATERIALS - TWO BOARDWALKS

Pay Item		Unit	Quantity
50200100	Structure Excavation	Cu Yd	33.5
50301350	Concrete Superstructure (Approach Slab)	Cu Yd	12.8
50800205	Reinforcement Bars, Epoxy Coated	Lb	1,480
XX008287	Boardwalk Structure	Sq Ft	11,969



APPROACH SLAB PLAN

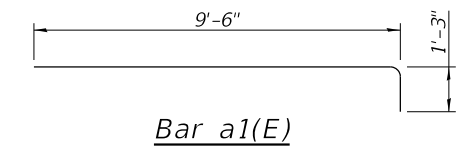


APPROACH SLAB ELEVATION

****Cost included with CONCRETE SUPERSTRUCTURE (APPROACH SLAB)**

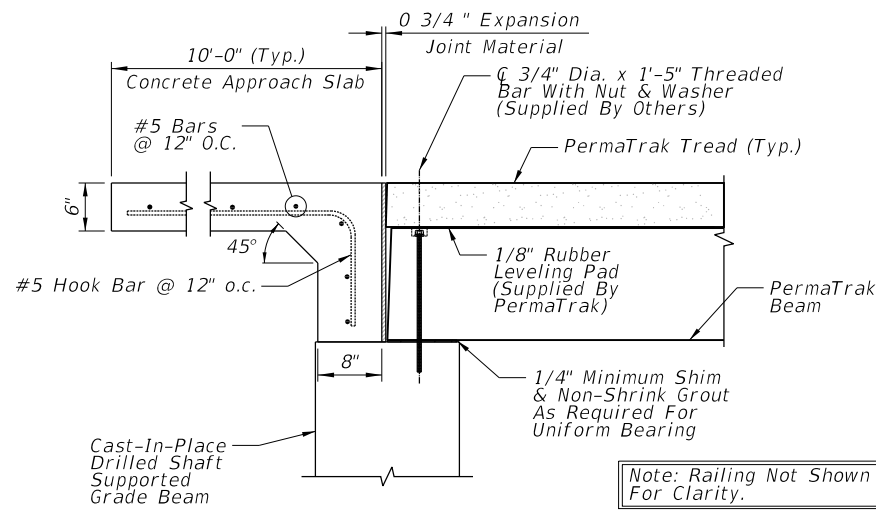
BILL OF MATERIAL
FOR ONE APPROACH SLAB

<i>Bar</i>	<i>No.</i>	<i>Size</i>	<i>Length</i>	<i>Shape</i>
<i>a1(E)</i>	<i>17</i>	<i>#5</i>	<i>10'-9"</i>	<i>—</i>
<i>b1(E)</i>	<i>11</i>	<i>#5</i>	<i>15'-0"</i>	<i>—</i>
<i>Pay Item</i>			<i>Unit</i>	<i>Quantity</i>
<i>Concrete Superstructure (Approach Slab)</i>			<i>Cu Yd</i>	<i>3.2</i>
<i>Reinforcement Bars, Epoxy Coated</i>			<i>Lb</i>	<i>370</i>



- Note:
1. Approach slab typical at each Boardwalk termination. See General Plan and Elevation sheets 1-3.
 2. Proposed path at boardwalk terminations has 1½% cross slope. Contractor shall match approach slab cross slope to path and transition approach slab to 0% cross slope to match at boardwalk. See Civil Plans for path details.

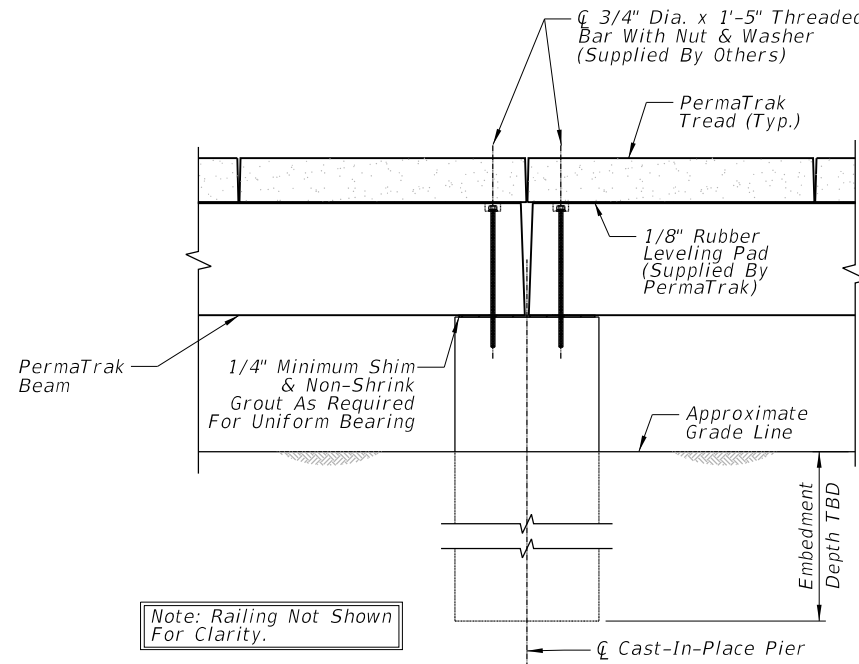
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DETAIL C - TYPICAL APPROACH

Scale: 1" = 1'-0"

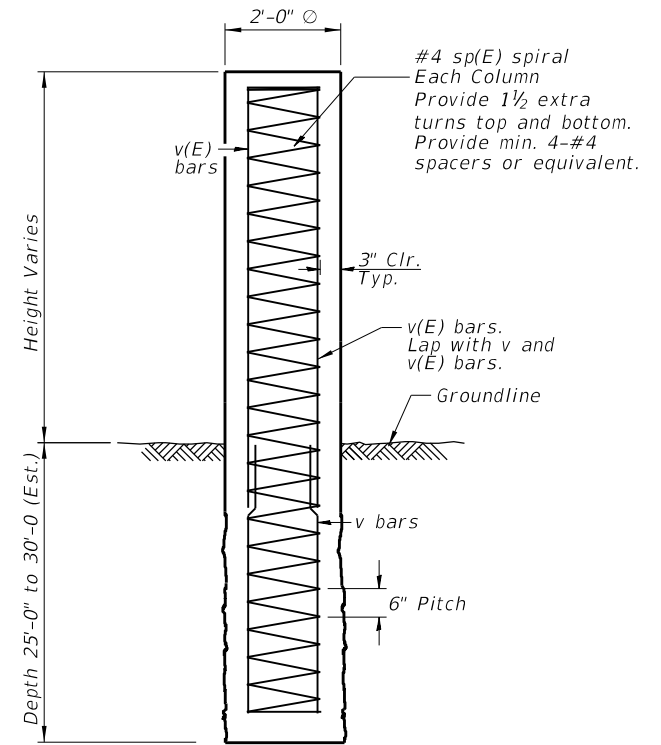
- Notes:
1. Threaded Bar Shall Be Set In Epoxy Adhesive Anchoring System.
 2. Threaded Bar Shall Be Embedded A Minimum of 3' Deep.
 3. Drilled Hole Shall Be 7/8" In Diameter.
 4. Completely Cover The Threaded Bar, Nut and Washer And Fill The Void Around The Threaded Bar With Epoxy Adhesive Or Non-Shrink Grout.



DETAIL B - TYPICAL PIER CONNECTION

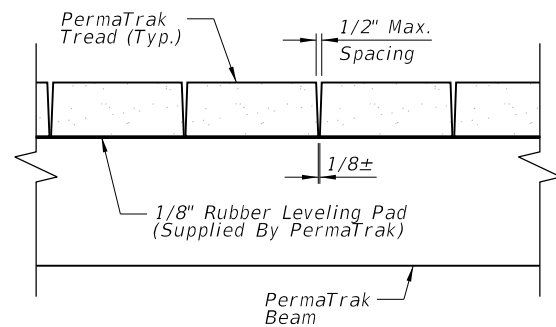
Scale: Not To Scale

- Notes:
1. Threaded Bar Shall Be Set In Epoxy Adhesive Anchoring System.
 2. Threaded Bar Shall Be Embedded A Minimum of 3' Deep.
 3. Drilled Hole Shall Be 7/8" In Diameter.
 4. Completely Cover The Threaded Bar, Nut and Washer And Fill The Void Around The Threaded Bar With Epoxy Adhesive Or Non-Shrink Grout.



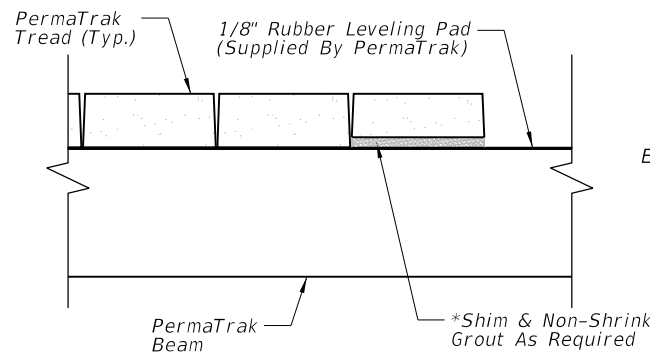
TYPICAL CONCRETE DRILLED SHAFT DETAIL

**Cost of Drilled Shaft design and construction is included with BOARDWALK STRUCTURE.



TYPICAL TREAD SPACING DETAIL

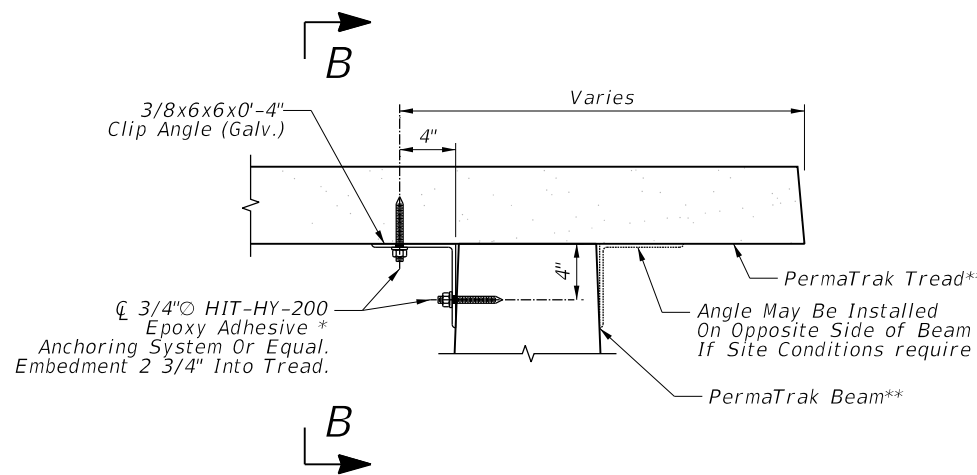
Scale: Not To Scale



TYPICAL SHIM/GROUT DETAIL

Scale: Not To Scale (UNDER TREAD)

*Note:
Due to tolerances and variance in precast production and installation accuracy, shimming and grouting may be required. Where required the entire bearing area and void shall be shim and grouted with non-shrink grout.

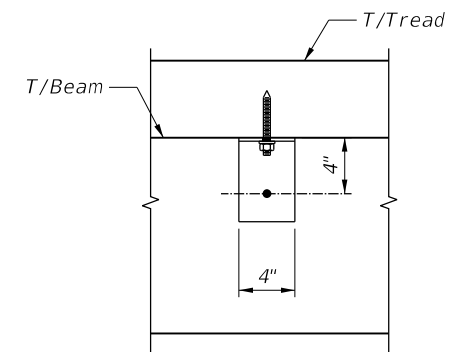


TREAD TO BEAM CONNECTION

Scale: Not To Scale

* Adhesive Not Supplied By Permatrak. Clip Angles, Threaded Rods And Nuts Supplied By Permatrak.

** Indicates Supplied By Boardwalk Manufacturer and Installed by contractor



SECTION B-B

Note:

The Contractor shall be responsible for the design, materials, and installation of the drilled shaft foundation piers, cast in place concrete grade beam supports, and railing for the Boardwalk Structure. All foundation locations shown in the boardwalk plans are approximate and shall be determined in the final boardwalk design. All details are approximate and are to be used for estimate purposes only. Contractor shall coordinate design of support foundations and railings with PermaTrak prior to delivery of final design package for review. See Special Provisions for more details.



USER NAME	=	DESIGNED	-	REVISED	-
PLOT SCALE	=	CHECKED	-	REVISED	-
PLOT DATE	=	DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-

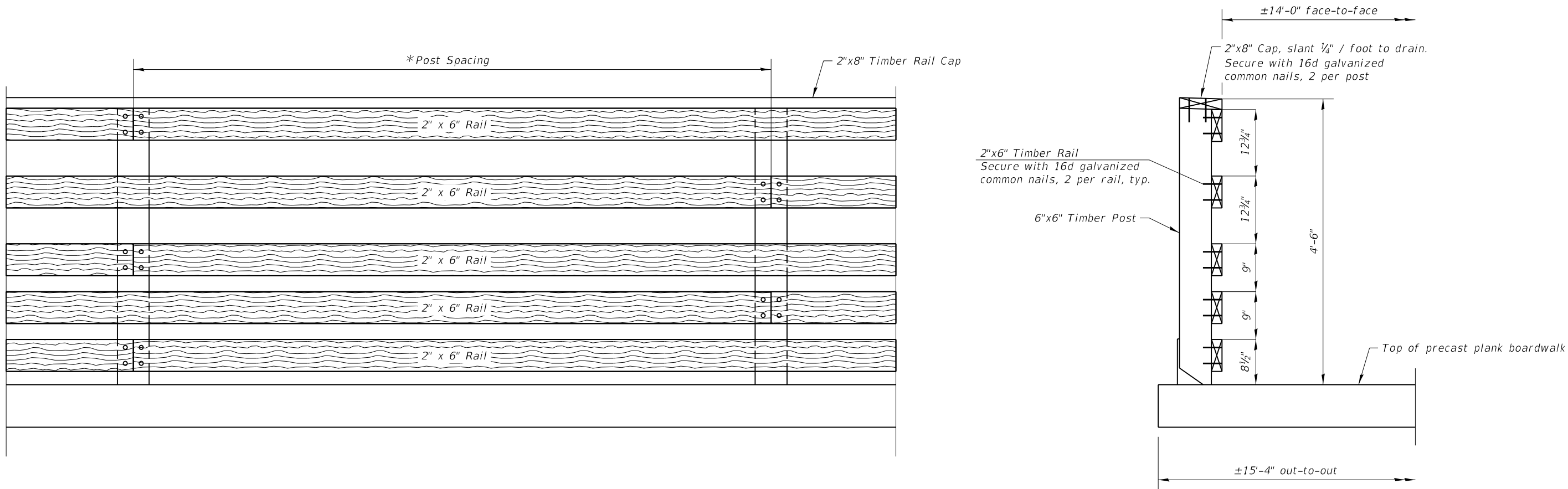
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOARDWALK DETAILS
PLUM CREEK BOARDWALKS

SHEET 7 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	46
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw.bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - SHT\09 - Structures\Boardwalks\ID123276-XXXXX-SHT-08-RA01



* Post spacing to be determined in railing design

Notes:

1. All hardware shall be as specified in Article 1006.25 of the Standard Specifications .
2. Timber rails shall be Treated Southern Pine as specified in Article 1007.03 of the Standard Specifications.
3. Stagger alternating butt ends on face rail and top rail. Center all butt joints on the posts.
4. Connection of timber posts to concrete plank boardwalk shall be per boardwalk manufacturer specifications.
5. Cost of Timber Railing, material and construction shall be included in the cost of BOARDWALK STRUCTURE.



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	=	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS
PLUM CREEK BOARDWALKS

SHEET 8 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	47
		CONTRACT NO. 61K44		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\terraeng-pw.bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXXX-5HT-09-5B01

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEOTECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-6

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS		
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
0														
	678.6		12" SANDY SILT											
			brown and gray SILTY CLAY stiff to hard	SS 1	67	4-5-7 (12)	4.5+	6.6	20.6					
				SS 2	67	2-4-4 (8)	3.5	3.6	24.6					
5				SS 3	100	2-2-3 (5)	2.75	2.8	23.7					
			trace shells in SS4	SS 4	67	2-2-3 (5)	1.5	1.4	31.4					
10	668.6		gray SILTY CLAY very stiff to hard	SS 5	100	1-2-2 (4)	2.5	2.4	29.9					
				SS 6	100	3-5-7 (12)	4.5+	6.0	15.4					
15														
				SS 7	100	3-5-8 (13)	4.5+	5.6	17.1					
20														
25				ST 1	96		3.5		17.3					

COMPLETION DEPTH 50 ft

GROUND ELEVATION 679.6 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES
Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-6

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS		
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
25			gray SILTY CLAY very stiff to hard (continued)											
				SS 8	100	4-5-6 (11)	2.5	2.5	19.0					
30														
				SS 9	100	3-4-4 (8)	3.25	3.3	20.1					
35														
				SS 10	100	3-5-6 (11)	2.5	2.6	20.9					
40														
				SS 11	100	2-4-5 (9)	2.0	2.0	21.8					
45														
				SS 12	100	3-4-6 (10)	3.5	3.4	14.6					
50	629.6		Bottom of borehole at 50.0 feet.											

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEOTECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



USER NAME	=	DESIGNED	-
		CHECKED	-
PLOT SCALE	=	DRAWN	-
PLOT DATE	= 02/12/2025	CHECKED	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK BOARDWALKS

SHEET 9 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	48
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw-bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXX-5HT-10-5B02

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO\TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-7

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS			
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			12" SILTY SAND												
	678.0		brown and gray SILTY CLAY trace sand and gravel very stiff to hard	SS 1	33	4-5-6 (11)	4.5+	6.1	20.8						
				SS 2	33	3-4-5 (9)	4.0	4.1	20.8						
5				SS 3	100	2-2-2 (4)	2.0	2.1	31.6						
				SS 4	100	2-2-4 (6)	3.0	2.9	32.9						
10	668.0		gray LEAN CLAY medium stiff to hard	SS 5	100	2-2-2 (4)	0.75	0.8	26.0						
				SS 6	100	2-4-6 (10)	4.5+	4.9	17.5						
20				SS 7	100	3-4-4 (8)	3.5	3.4	19.2						
25				SS 8	100	2-2-4 (6)	1.5	1.5	20.9						

COMPLETION DEPTH 50 ft

GROUND ELEVATION 679 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 27.50 ft / Elev 651.50 ft

▼ AT END OF DRILLING 27.50 ft / Elev 651.50 ft

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.



BORING NO. B-7

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS			
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
25			gray LEAN CLAY medium stiff to hard (continued)												
	650.5		gray POORLY GRADED SAND trace clay loose to medium dense, wet	SS 9	67	4-4-4 (8)				16.2					
30															
				SS 10	100	4-6-9 (15)				15.9					
35															
				SS 11	100	3-5-7 (12)				16.1					
40															
	635.5		gray SANDY CLAY stiff	SS 12	100	2-2-4 (6)	1.0	1.1	14.8						
45															
	630.5		gray POORLY GRADED SAND trace clay loose, wet	SS 13	56	3-3-3 (6)				21.3					
50	629.0														

Bottom of borehole at 50.0 feet.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO\TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	= 02/12/2025	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK BOARDWALKS

SHEET 10 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	49
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw-bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXXX-5HT-11-5B03

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO\TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-8

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS		
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
0	677.4		3" TOPSOIL											
			brown and gray LEAN CLAY stiff to hard	SS 1	67	3-5-6 (11)	4.5+		21.9					
				SS 2	78	5-5-7 (12)	4.5+	4.6	21.8					
5				SS 3	89	2-2-3 (5)	1.5	1.4	24.3					
	669.6		brown and gray LEAN CLAY with ORGANICS with shells soft to stiff	SS 4	100	2-2-2 (4)	0.25	0.4	39.0					
				ST 1	100		1.25		28.1					
				SS 5	83	1-2-1 (3)	0.5	0.8	38.5					
	660.6		gray LEAN CLAY very stiff to hard	SS 6	89	2-3-4 (7)	2.75	2.8	19.5					
				SS 7	83	2-3-5 (8)	2.75	2.8	20.0					
25														

COMPLETION DEPTH 50 ft

GROUND ELEVATION 677.6 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 42.00 ft / Elev 635.60 ft

▼ AT END OF DRILLING 28.00 ft / Elev 649.60 ft

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-8

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS		
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
25			gray LEAN CLAY very stiff to hard (continued)											
				ST 2	100		4.0		19.5					
30														
				SS 8	100	3-3-5 (8)	2.75	2.7	21.4					
				SS 9	100	4-5-8 (13)	4.5+	5.3	13.6					
	635.6		gray SAND and GRAVEL medium dense, wet wet silt seam at 45 ft	SS 10	89	3-5-6 (11)			9.9					
				SS 11	89	5-6-5 (11)			13.3					
50	627.6													

Bottom of borehole at 50.0 feet.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

PLUM CREEK BOARDWALKS

SHEET 11

OF 18

SHEETS

F.A. RTE.

SECTION 20-F3000-06-BT

COUNTY WILL

TOTAL SHEETS 88

SHEET NO. 50

CONTRACT NO. 61K44

ILLINOIS

FED. AID PROJECT

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO\TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ

MODEL: Default
FILE NAME: pw:\terraeng-pw\ Bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXXX-5HT-12-SB04

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-9

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
0	680.1		4" TOPSOIL													
			brown and gray LEAN CLAY hard	SS 1	67	5-7-9 (16)	4.5+		20.0							
				SS 2	89	6-10-14 (24)	4.5+	6.4	14.5							
5				SS 3	100	5-10-14 (24)	4.5+	6.6	15.1							
				SS 4	100	5-7-9 (16)	4.5+	9.3	17.0							
				SS 5	94	5-7-9 (16)	4.5+	7.9	17.8							
				SS 6	89	5-8-12 (20)	4.5+	6.2	17.6							
	663.4		gray LEAN CLAY very stiff to hard	SS 7	94	5-8-9 (17)	4.5+	7.6	18.9							
25				SS 8	100	3-4-5 (9)	3.75	3.9	14.0							

COMPLETION DEPTH 50 ft

GROUND ELEVATION 680.4 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 27.00 ft / Elev 653.40 ft

▼ AT END OF DRILLING 22.00 ft / Elev 658.40 ft

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-9

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/23/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
25			gray LEAN CLAY very stiff to hard (continued)													
	653.4		gray POORLY GRADED SAND trace clay loose	SS 9	100	3-4-5 (9)			9.4							
30																
	647.4		gray CLAYEY SILT trace sand loose, moist	SS 10	78	5-2-3 (5)			14.5							
	643.4		gray POORLY GRADED SAND very loose to medium dense, wet													
				SS 11	100	1-1-1 (2)			21.1							
				SS 12	94	2-2-4 (6)			19.7							
				SS 13	100	5-5-6 (11)			21.4							
50	630.4															

Bottom of borehole at 50.0 feet.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	= 02/12/2025	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK BOARDWALKS

SHEET 12 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	51
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw-bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXXX-5HT-13-5B05

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-10

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
0			12" SILTY SAND													
	678.2		brown and gray SILTY CLAY hard	SS 1	33	5-8-9 (17)	4.5+	8.8	17.9							
				SS 2	67	4-6-8 (14)	4.5+	6.8	20.8							
5				SS 3	100	4-7-12 (19)	4.5+	6.6	16.7							
				SS 4	100	4-8-13 (21)	4.5+	9.7	16.2							
				SS 5	100	4-7-10 (17)	4.5+	9.2	16.5							
10				SS 6	100	5-7-10 (17)	4.5+	4.8	16.4							
				SS 7	67	5-7-8 (15)	4.5+	8.2	16.9							
15																
	655.7			SS 8	100	4-5-5 (10)	4.5+	4.8	13.8							
25																

COMPLETION DEPTH 50 ft

GROUND ELEVATION 679.2 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 28.50 ft / Elev 650.70 ft

▼ AT END OF DRILLING 28.50 ft / Elev 650.70 ft

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-10

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
25			gray LEAN CLAY trace sand and gravel hard (continued)													
	650.7		gray POORLY GRADED SAND medium dense, wet	SS 9	100	8-12-17 (29)			12.2							
30																
				SS 10	67	10-6-7 (13)			17.0							
35																
	640.7		gray SANDY SILT medium dense, wet	SS 11	100	10-13-9 (22)			11.9							
40																
	635.7		gray SILTY CLAY very stiff	SS 12	100	3-4-6 (10)	2.25	2.4	14.0							
45																
	630.7		gray POORLY GRADED SAND medium dense, wet	SS 13	33	4-5-8 (13)			14.8							
50	629.2															
Bottom of borehole at 50.0 feet.																
Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.																

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	= 02/12/2025	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK BOARDWALKS

SHEET 13 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	52
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw.bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - SHT\09 - Structures\Boardwalks\ID123276-XXXX-SHT-14-SB06

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEOTECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-11

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
0			12" SILTY SAND													
	677.4		brown and gray SILTY CLAY very stiff to hard	SS 1	67	4-6-8 (14)	4.5+	7.2	19.5							
			clayey silt seam in SS2													
				SS 2	33	5-7-10 (17)	2.5		9.1							
				SS 3	100	4-7-10 (17)	4.5+	9.8	16.1							
				SS 4	100	5-8-10 (18)	4.5+	8.6	16.3							
				SS 5	100	5-7-10 (17)	4.5+	5.5	18.9							
				SS 6	100	5-8-10 (18)	4.5+	9.3	17.4							
	659.9		gray LEAN CLAY trace sand and gravel very stiff to hard	SS 7	100	3-4-5 (9)	3.0	3.0	15.6							
				ST 1	83		4.5+		16.0							

COMPLETION DEPTH 50 ft

GROUND ELEVATION 678.4 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 33.50 ft / Elev 644.90 ft

▼ AT END OF DRILLING 33.50 ft / Elev 644.90 ft

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-11

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
25			gray LEAN CLAY trace sand and gravel very stiff to hard (continued)													
	649.9		gray SILTY CLAY very stiff	SS 8	56	2-3-4 (7)	2.25		15.2							
	644.9		gray POORLY GRADED SAND loose to medium dense, wet	SS 9	100	3-3-3 (6)			19.5							
				SS 10	100	3-3-4 (7)			32.0							
				SS 11	100	4-4-5 (9)			9.8							
				SS 12	100	4-6-6 (12)			18.3							

Bottom of borehole at 50.0 feet.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEOTECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	= 02/12/2025	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK BOARDWALKS

SHEET 14 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	53
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw-bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXXX-5HT-15-5B07

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-12

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
0	675.4		4" TOPSOIL													
			brown and gray LEAN CLAY very stiff to hard	SS 1	83	6-8-8 (16)	4.5+	7.0	20.0							
				SS 2	89	4-5-6 (11)	3.25	3.3	22.4							
5				SS 3	100	4-5-6 (11)	4.5+	7.3	16.9							
				SS 4	100	4-7-11 (18)	4.5+	7.4	16.8							
10				SS 5	89	4-7-11 (18)	4.5+	7.6	16.8							
	662.4		gray LEAN CLAY very stiff to hard	SS 6	100	4-8-11 (19)	4.5+	6.5	16.6							
20				SS 7	89	4-7-10 (17)	4.5+	5.6	16.7							
25				SS 8	100	3-4-6 (10)	2.75	2.8	16.4							

COMPLETION DEPTH 50 ft

GROUND ELEVATION 675.4 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 33.50 ft / Elev 641.90 ft

▼ AT END OF DRILLING 25.00 ft / Elev 650.40 ft

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-12

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft.)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS				
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX		
25			gray LEAN CLAY very stiff to hard (continued)													
				SS 9	67	3-4-7 (11)	4.5+	4.6	14.7							
30																
	641.9		gray SANDY SILT trace gravel, possible cobbles medium dense	SS 10	67	9-12-11 (23)			10.7							
35																
				SS 11	67	4-5-7 (12)			19.6							
40																
	633.4		gray POORLY GRADED SAND medium dense, wet	SS 12	89	8-8-11 (19)			13.6							
45																
	628.4		gray SILTY CLAY trace sand and gravel hard	SS 13	78	5-7-10 (17)	4.5+	5.4	11.8							
50	625.4															

Bottom of borehole at 50.0 feet.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ

MODEL: Default
FILE NAME: pw:\terraeng-pw.bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\ID123276-XXXXX-5HT-16-5B08

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-13

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS		
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
0	670.8		8" TOPSOIL											
			brown and gray LEAN CLAY medium stiff to hard	 SS 1	67	5-6-6 (12)	4.5+	5.0	23.3					
				 SS 2	89	2-2-3 (5)	0.75	0.9	27.1					
5				 SS 3	83	2-2-2 (4)	0.75	0.7	34.1					
	662.0		gray LEAN CLAY very stiff to hard	 SS 4	89	3-4-5 (9)	2.75	2.8	19.8					
				 SS 5	100	4-6-9 (15)	4.5+	5.3	18.4					
15				 SS 6	100	4-6-7 (13)	4.5+	5.8	14.7					
20				 SS 7	100	3-4-5 (9)	2.25	2.2	20.0					
25				 SS 8	100	2-3-4 (7)	2.5	2.5	20.2					

COMPLETION DEPTH 50 ft

GROUND ELEVATION 671.5 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

 AT TIME OF DRILLING 37.00 ft / Elev 634.50 ft

 AT END OF DRILLING 37.00 ft / Elev 634.50 ft

AFTER DRILLING ---

Notes

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.



BORING NO. B-13

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS		
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
25			gray LEAN CLAY very stiff to hard (continued)											
				 SS 9	100	2-3-3 (6)	2.0	2.1	17.1					
30	639.5		gray SILT medium dense, moist	 SS 10	100	3-4-7 (11)			16.7					
	634.5		gray POORLY GRADED SAND loose, wet	 SS 11	100	3-1-5 (6)			19.3					
	629.5		gray SANDY SILT medium dense, wet	 SS 12	83	4-9-12 (21)			19.2					
45	624.5		gray LEAN CLAY hard	 SS 13	89	3-4-5 (9)	4.0	4.0	14.2					
50	621.5		Bottom of borehole at 50.0 feet.											

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEO TECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	= 02/12/2025	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK BOARDWALKS

SHEET 16 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	55
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw\entley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXXX-5HT-17-5B09

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEOTECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-14

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS			
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0	669.8		8" TOPSOIL brown and gray LEAN CLAY stiff to hard	SS 1	78	6-8-6 (14)	4.5+	6.6	21.0						
				SS 2	83	4-4-5 (9)	3.0	3.0	26.3						
5				SS 3	89	2-3-3 (6)	1.5	1.6	37.7						
	662.5		black, brown, and gray LEAN CLAY with ORGANICS very soft to stiff	SS 4	100	1-1-1 (2)	1.0	1.1	72.3						
				SS 5	100	1-1-0 (1)	<0.25		58.2						
15				ST 1	100		0.25		49.2						
				SS 6	89	WOH-1-2 (3)	0.25	0.3	21.3						
20															
	647.5		gray SILTY CLAY very stiff to hard	SS 7	83	5-7-10 (17)	4.5+	5.6	17.8						
25															

COMPLETION DEPTH 50 ft

GROUND ELEVATION 670.5 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING 42.00 ft / Elev 628.50 ft

▼ AT END OF DRILLING 30.00 ft / Elev 640.50 ft

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-14

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY RR/JG

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS			
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
25			gray SILTY CLAY very stiff to hard (continued)												
				SS 8	89	3-5-8 (13)	3.25	3.5	19.2						
30															
				SS 9	100	3-4-6 (10)	3.0	2.7	18.4						
	633.5		gray CLAYEY SILT medium dense												
				SS 10	89	5-7-9 (16)			15.3						
40															
	628.5		gray POORLY GRADED SAND medium dense, wet												
				SS 11	89	5-7-8 (15)			19.8						
45															
	623.5		gray SANDY CLAY very stiff												
				SS 12	67	6-7-8 (15)	2.5		11.1						
50	620.5														

Bottom of borehole at 50.0 feet.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEOTECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



USER NAME	=	DESIGNED	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	= 02/12/2025	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PLUM CREEK BOARDWALKS

SHEET 17 OF 18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	56
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\terraeng-pw.bentley.com\terraeng-pw-01\Documents\Projects\2023\23-276 - Plum Creek Greenway Trail\Design\100 - Drawings\110 - 5HT\09 - Structures\Boardwalks\123276-XXXXX-5HT-18-SB10

GPS STANDARD GEOTECH LOG - OZ STD DATA TEMPLATE.GDT - 11/1/24 10:26 - K:\GEOTECHNICAL\2021\21-G0323 GEO PROPOSED PLUM CREEK TRAIL PROJECT, CRETE, IL\2024 BORINGS\LAB & DRILLER\21-G0323 DRAFT LOGS.GPJ



BORING NO. B-15

PAGE 1 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS			
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			12" SILTY SAND												
	670.3		brown and gray LEAN CLAY stiff to hard	SS 1	67	4-4-3 (7)	4.5+	4.6	19.1						
				SS 2	100	2-2-3 (5)	2.0	1.9	34.2						
5				SS 3	100	2-3-4 (7)	3.5	3.3	25.4						
				ST 1	100		4.5+		19.4						
10	661.3		black and gray ORGANIC LEAN CLAY very soft to medium stiff	SS 4	100	1-1-1 (2)	0.75	0.8	47.4						
				SS 5	100	1-1-1 (2)	0.25	0.2	48.6						
15															
	652.8		gray LEAN CLAY very stiff to hard	SS 6	100	2-2-3 (5)	4.25	4.2	18.3						
20															
				SS 7	100	4-5-6 (11)	3.0	2.9	26.2						
25															

COMPLETION DEPTH 50 ft

GROUND ELEVATION 671.3 ft

CAVE DEPTH ft

BACKFILL Soil Cuttings

GROUND WATER LEVELS:

AT TIME OF DRILLING --- None

AT END OF DRILLING --- Dry upon completion

AFTER DRILLING ---

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

NOTES

Groundwater conditions were observed at the time of drilling and may not be representative during the time of construction.



BORING NO. B-15

PAGE 2 OF 2

CLIENT Terra Engineering, Ltd.

PROJECT NAME Proposed Plum Creek Trail

PROJECT NUMBER 21-G0323

PROJECT LOCATION East of Calumet Expressway - Crete, IL

DATE COMPLETED 9/20/24

LOGGED BY DJ/RJ

DRILLING METHOD 3.25 in. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Qp) (tsf)	UNC. STRENGTH (Qu) (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS			
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
25			gray LEAN CLAY very stiff to hard (continued)												
				SS 8	100	2-3-5 (8)	3.0	3.1	36.0						
30															
				SS 9	100	3-4-4 (8)	2.25	2.3	11.8						
35															
				SS 10	100	4-5-6 (11)	3.25	3.3	60.3						
40															
	629.3		gray SANDY SILT medium dense	SS 11	100	6-8-8 (16)			26.2						
45															
	622.8														
	621.3		gray LEAN CLAY very stiff	SS 12	67	3-4-5 (9)	3.5	3.5	32.7						
50															

Bottom of borehole at 50.0 feet.

Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

TERRA ENGINEERING LTD.

USER NAME =

DESIGNED -

CHECKED -

REVIS

REVIS

REVIS

REVIS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

PLUM CREEK BOARDWALKS

SHEET 18

OF 18

SHEETS

F.A. RTE.

SECTION

COUNTY

TOTAL SHEETS

SHEET NO.

20-F3000-06-BT

WILL

88

57

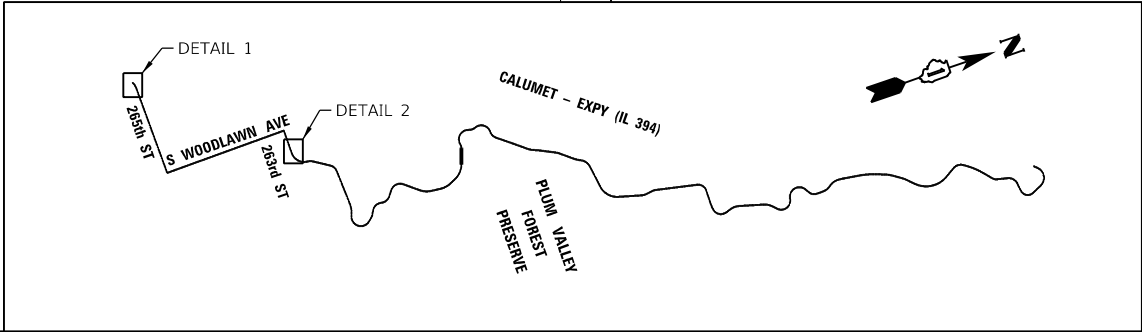
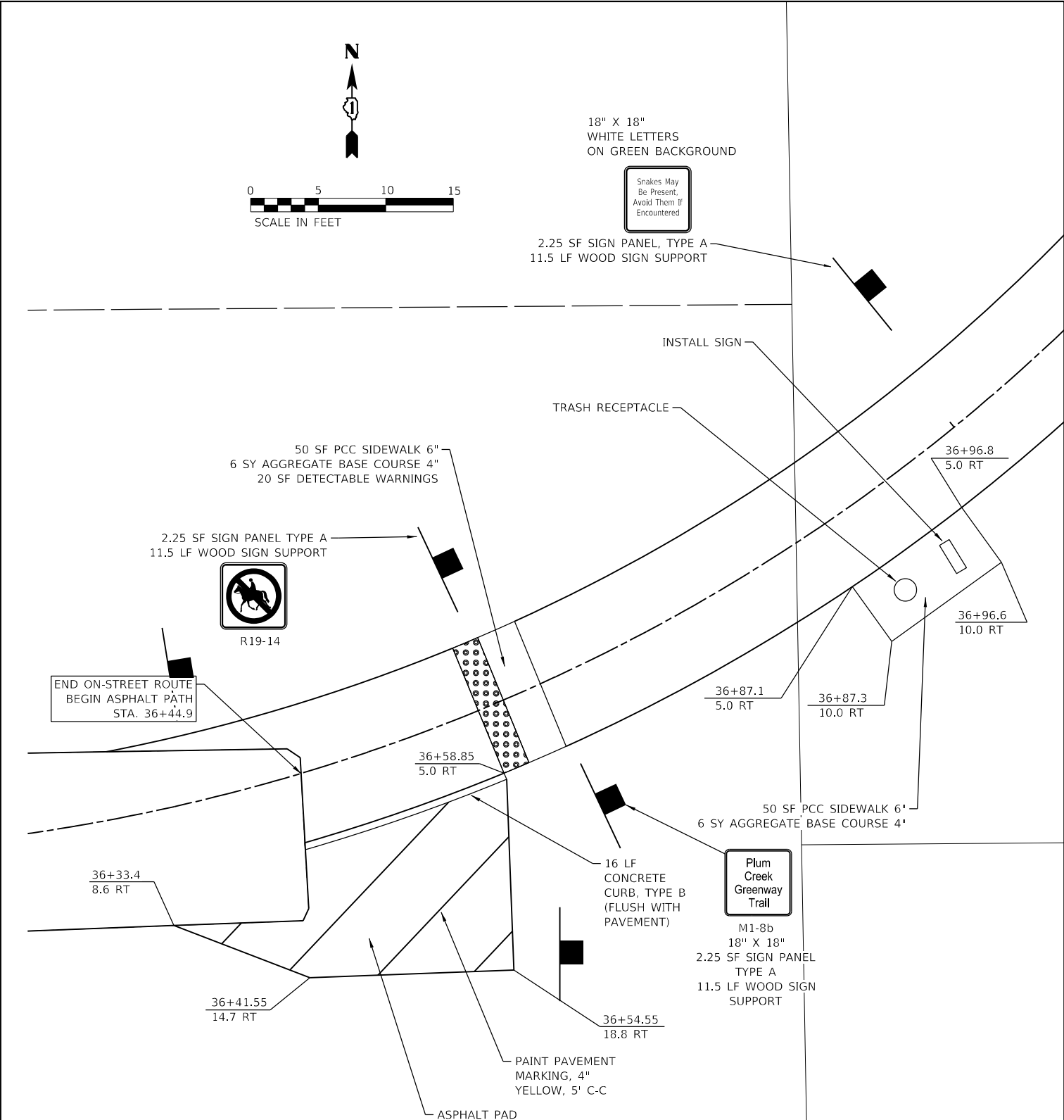
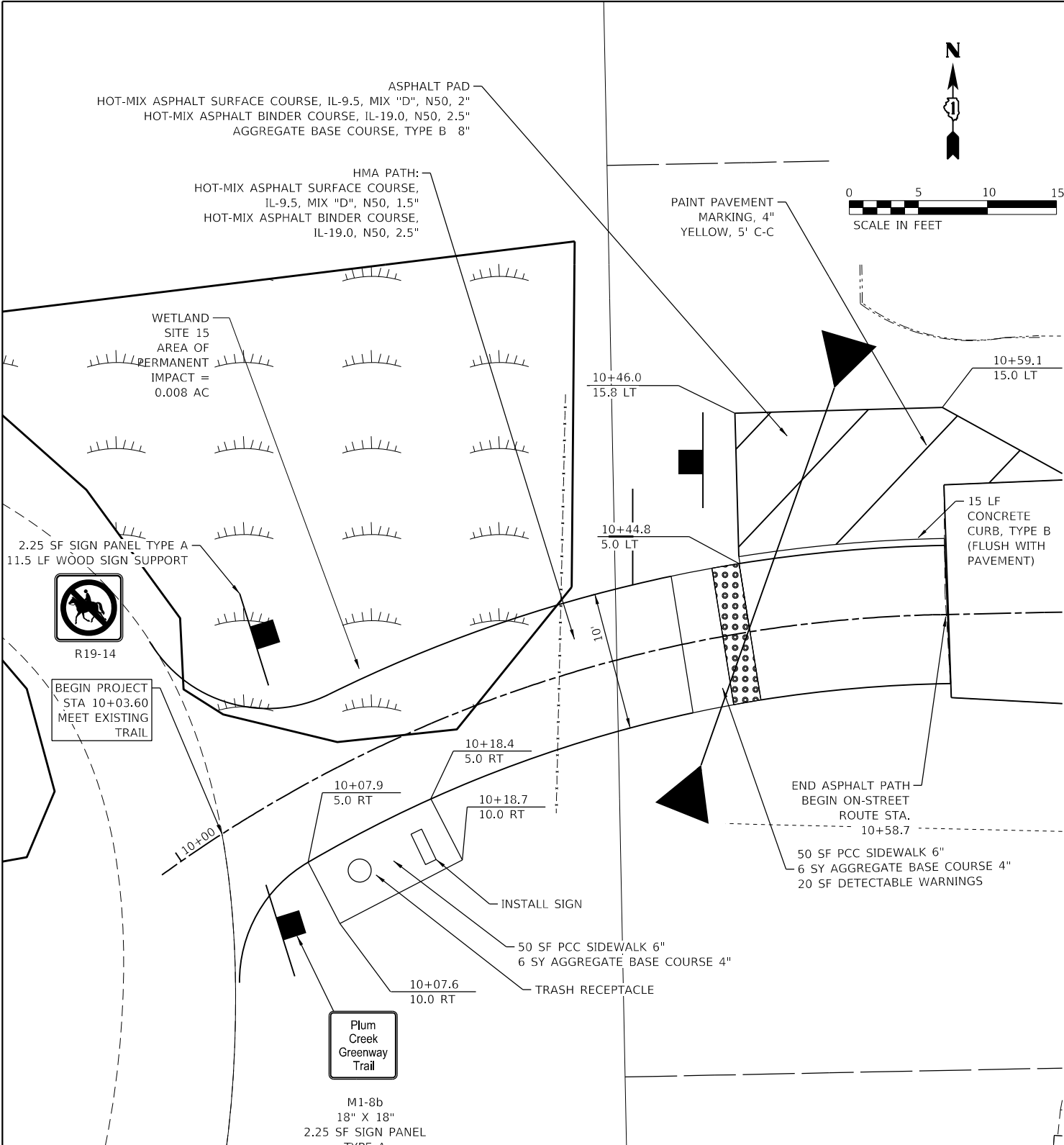
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ILLINOIS

FED. AID PROJECT

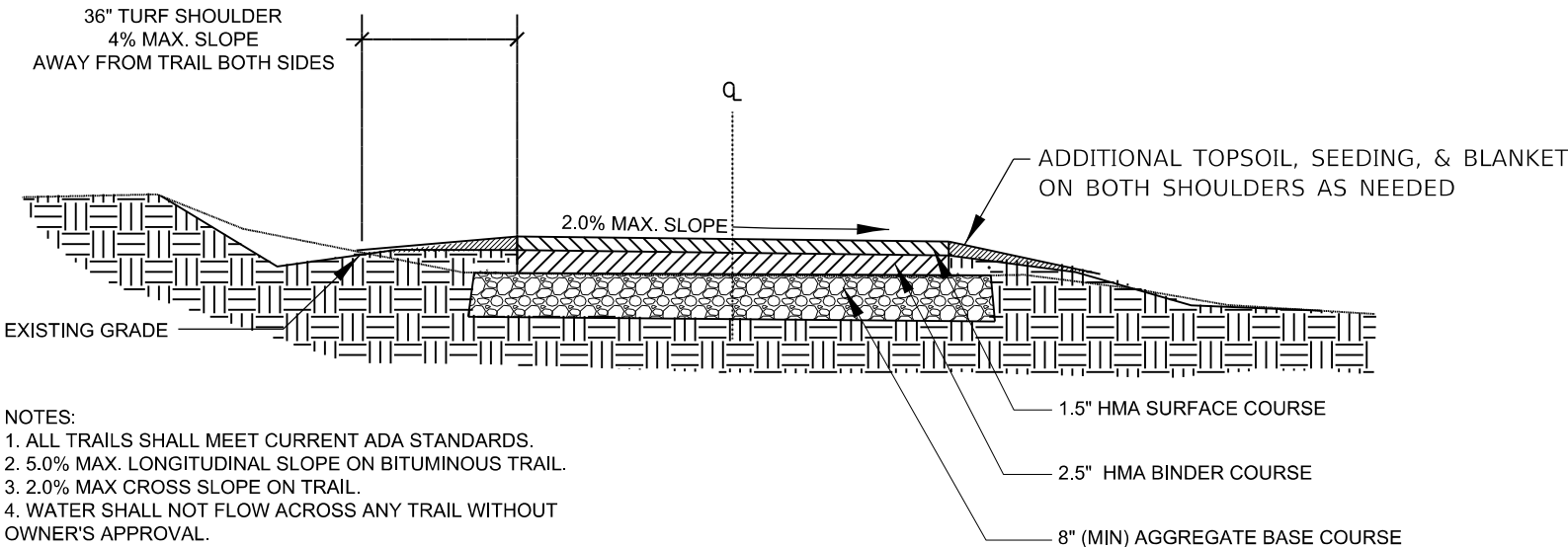
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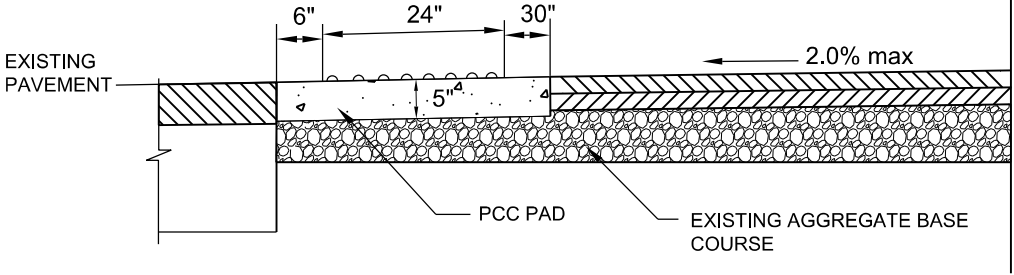
DETAIL 1

DETAIL 2

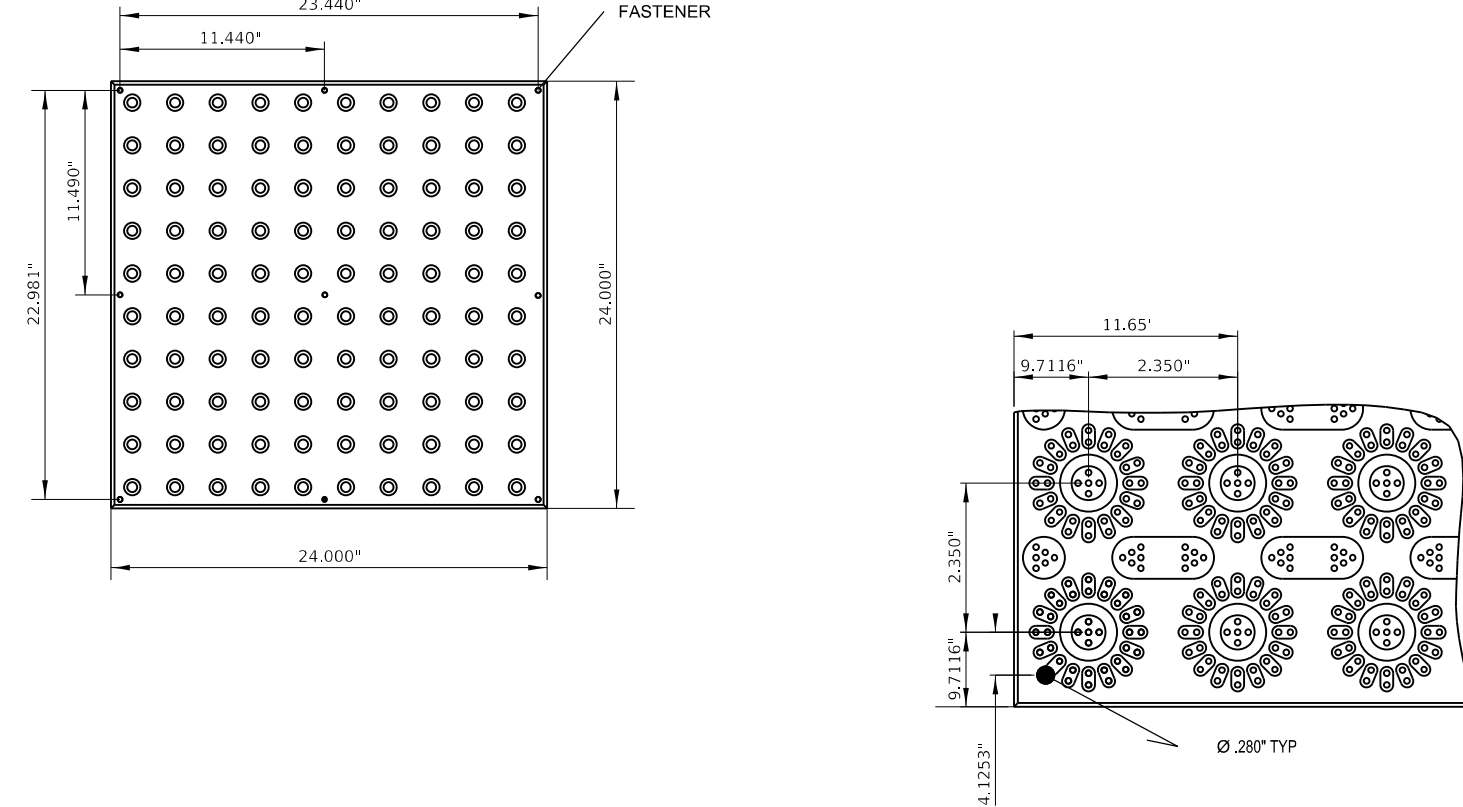


- NOTES:
- 1. ALL TRAILS SHALL MEET CURRENT ADA STANDARDS.
 - 2. 5.0% MAX. LONGITUDINAL SLOPE ON BITUMINOUS TRAIL.
 - 3. 2.0% MAX CROSS SLOPE ON TRAIL.
 - 4. WATER SHALL NOT FLOW ACROSS ANY TRAIL WITHOUT OWNER'S APPROVAL.

1 BITUMINOUS TRAIL CROSS-SECTION (TYPICAL)
(Scale as Noted)



2 DETECTABLE WARNINGS CONCRETE DETAIL
(Scale as Noted)



3 2'X2' DETECTABLE WARNING DETAIL
(Scale as Noted)

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FILE: DRAWING: STYLES

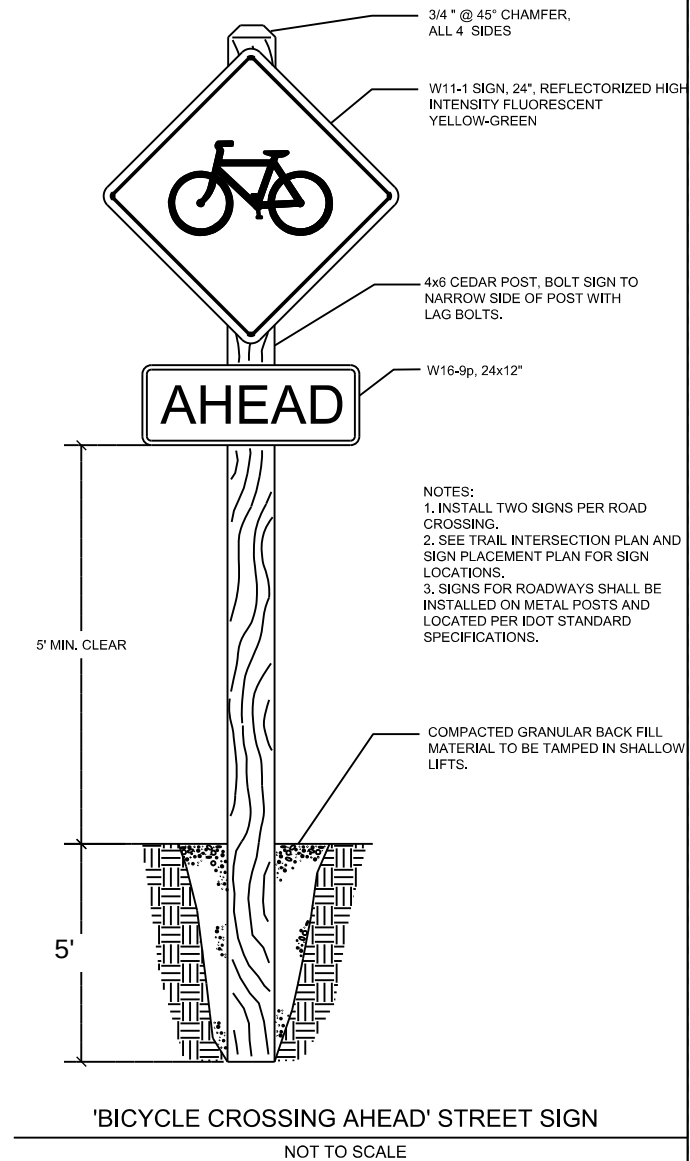
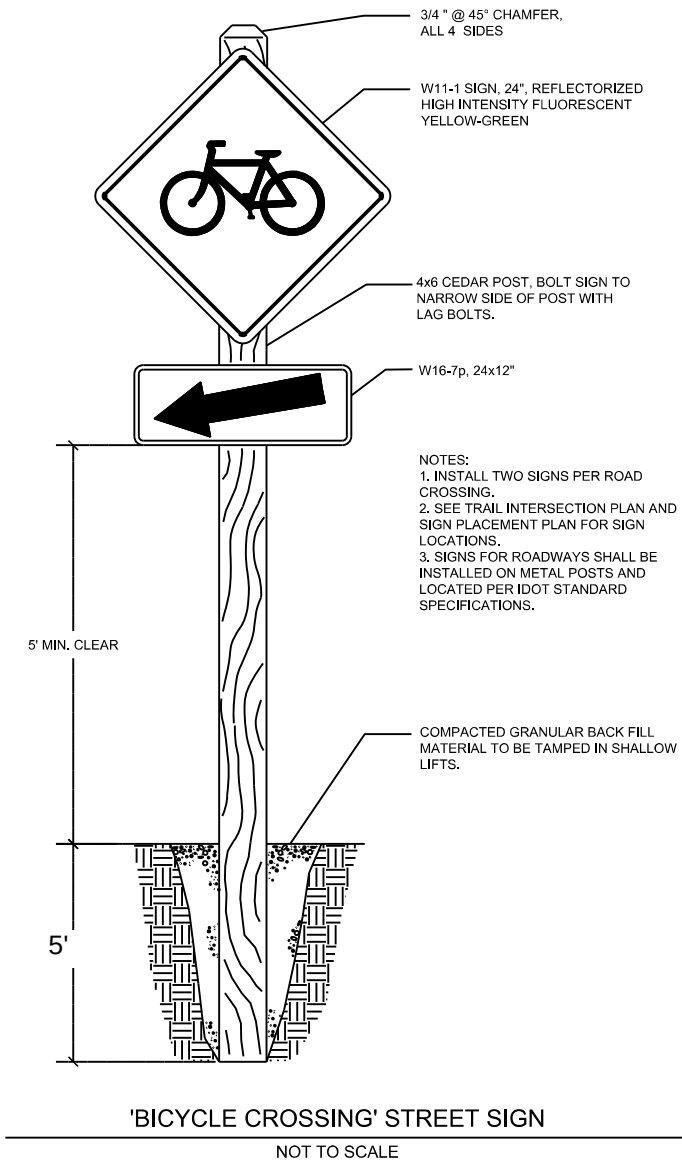
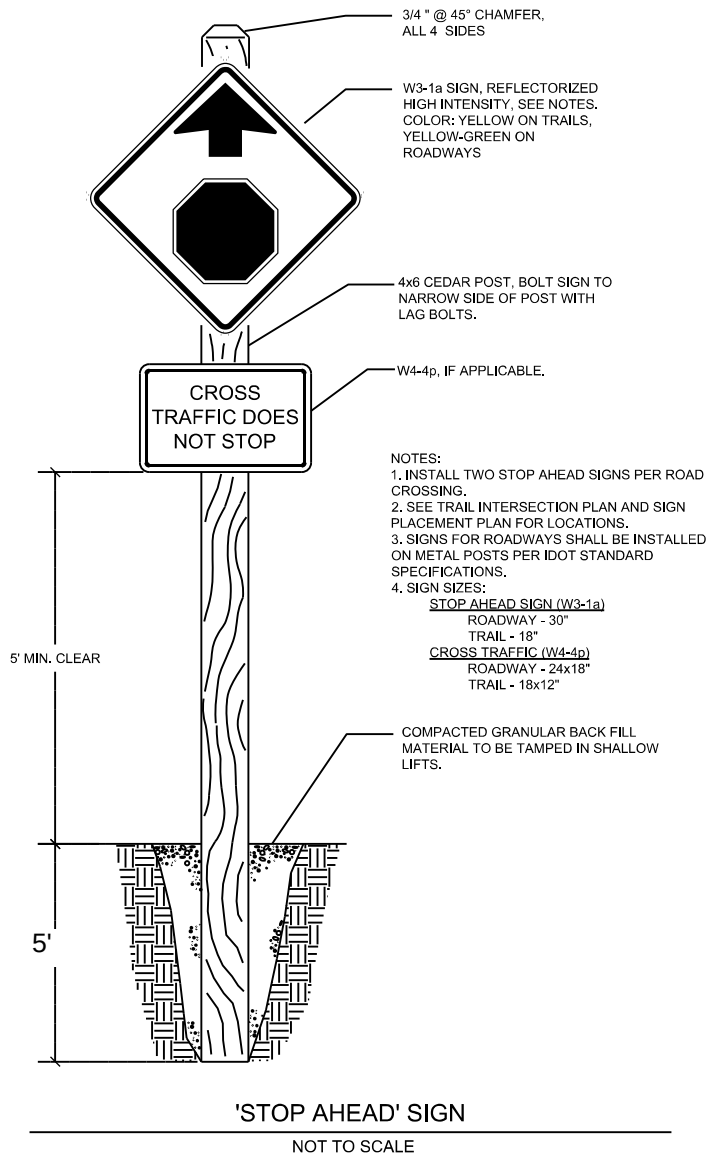
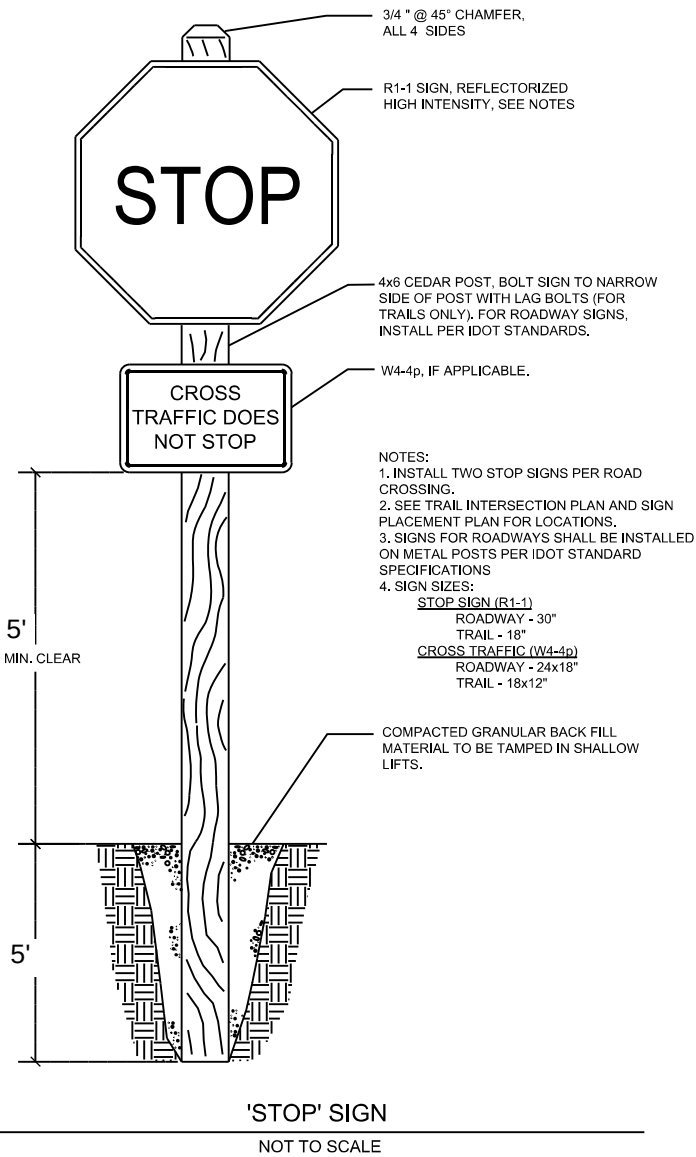


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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MISC. DETAILS			
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STA.	TO STA.		

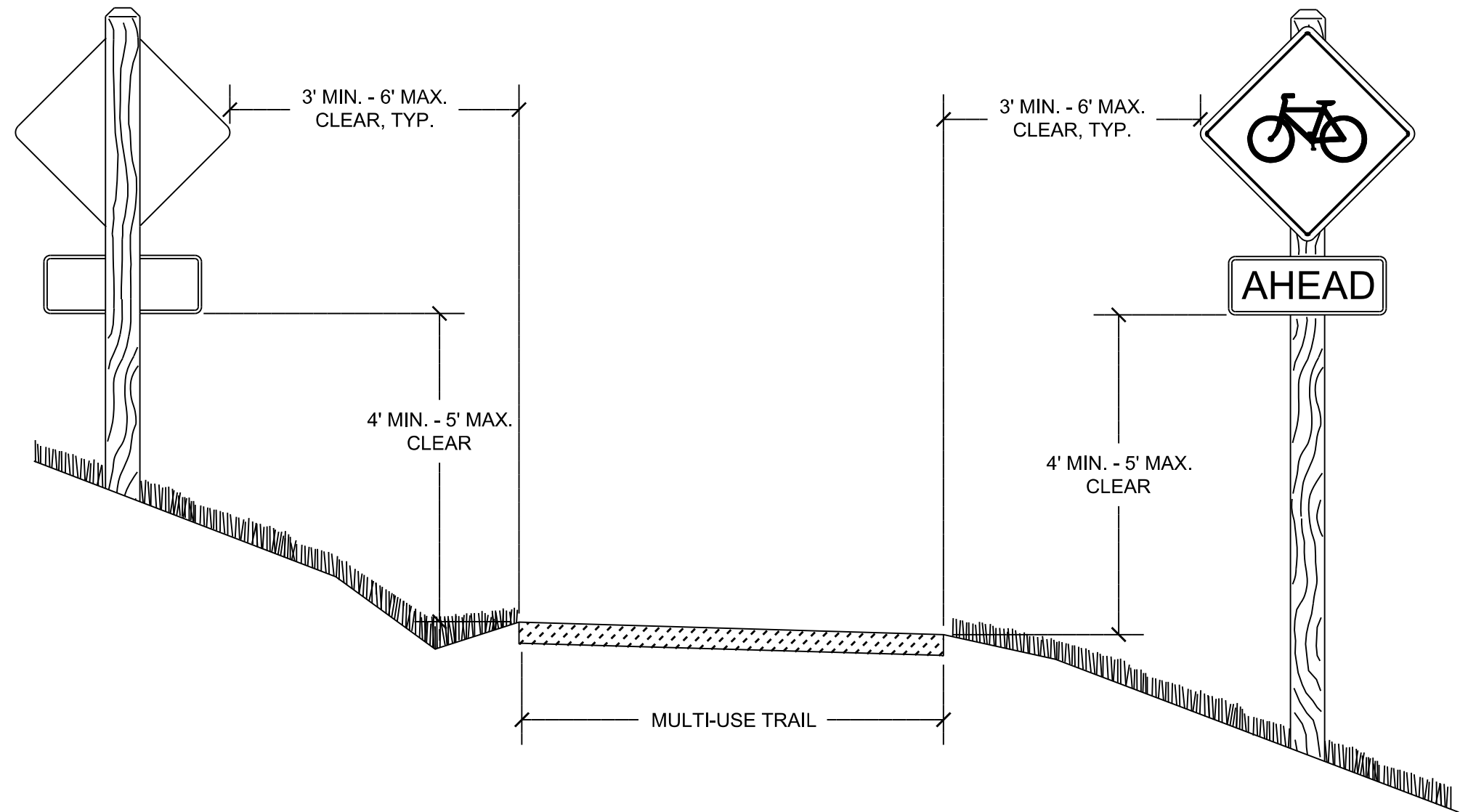
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CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



TYPICAL APPLICATION FOR SIGNS WITH WOOD SIGN SUPPORTS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.61K44				
ILLINOIS FED. AID PROJECT				



SIGN PLACEMENT
NOT TO SCALE

MODEL: MODEL NAMES
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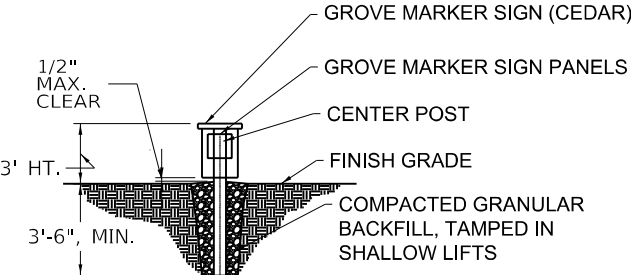
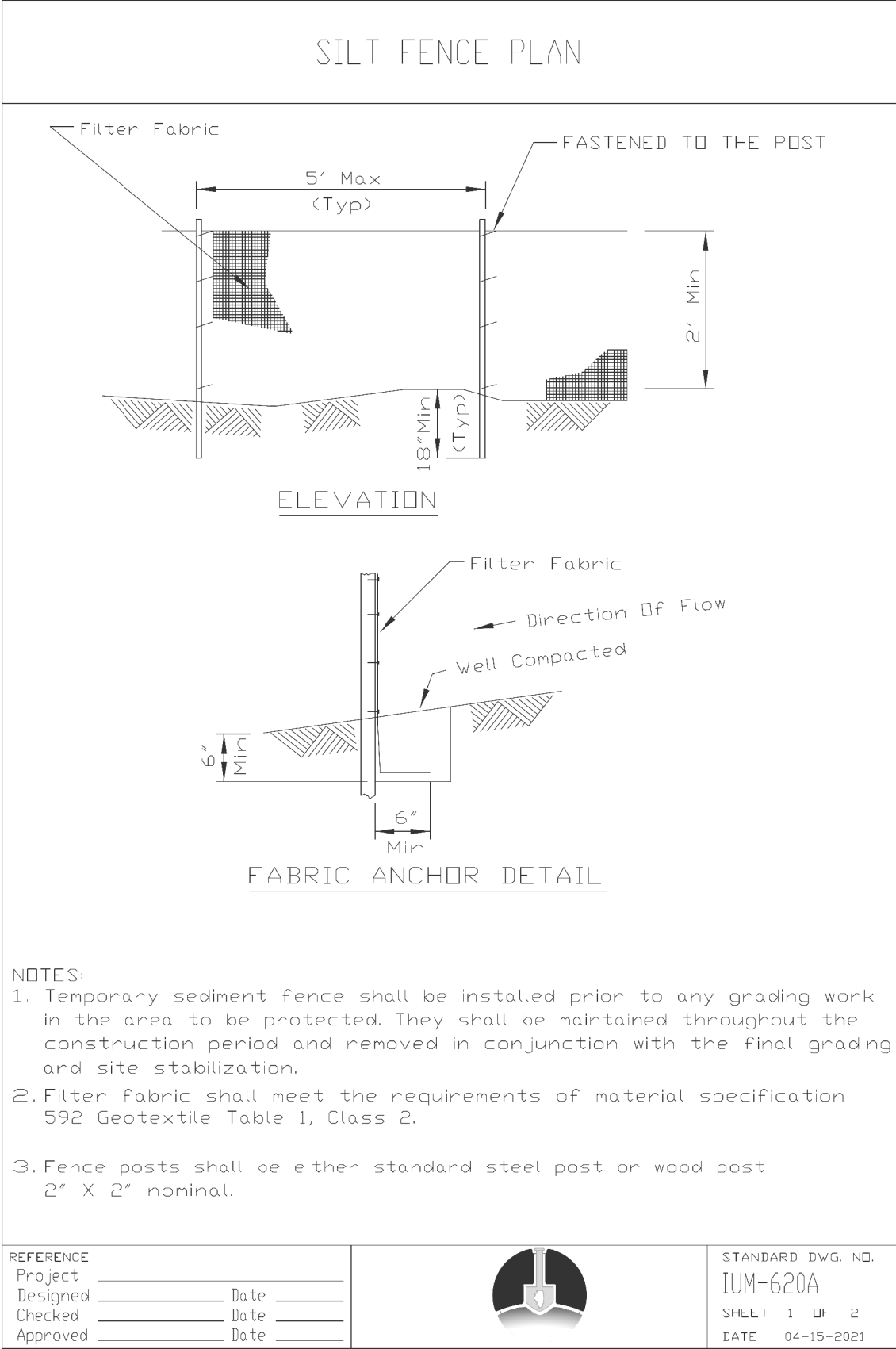
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
MISC. DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	61
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				



NOTE:
GROVE MARKER SIGN PANELS TO BE SUPPLIED BY THE FOREST PRESERVE DISTRICT.

GROVE MARKER SIGN

MODEL NUMBER
FILE NAME: STILES



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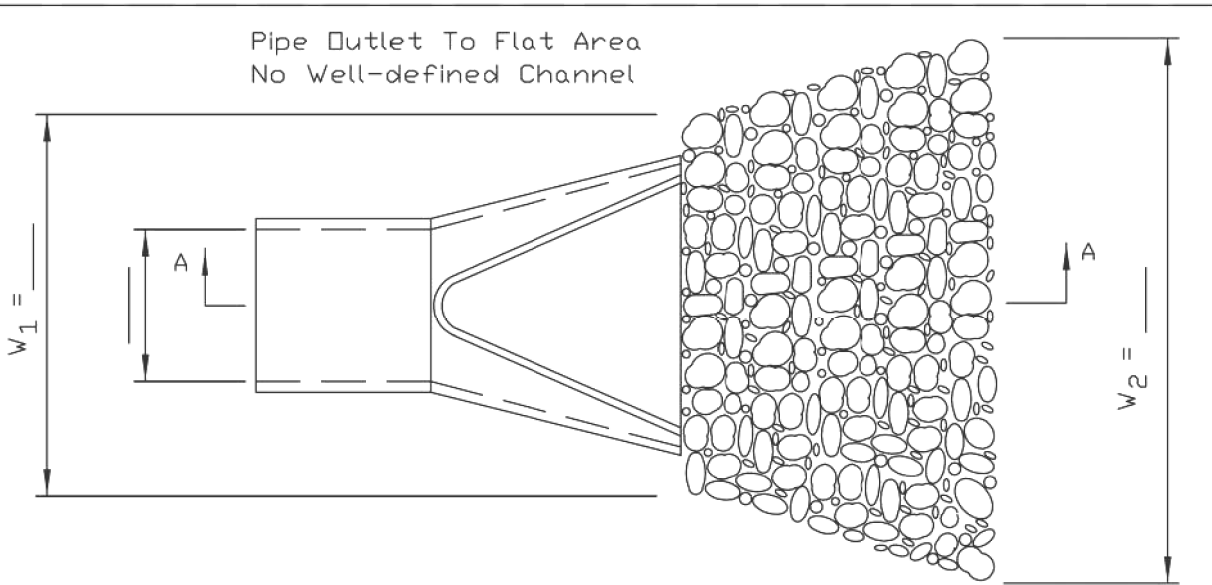
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLUM CREEK GREENWAY TRAIL SEGMENT 3
MISC. DETAILS

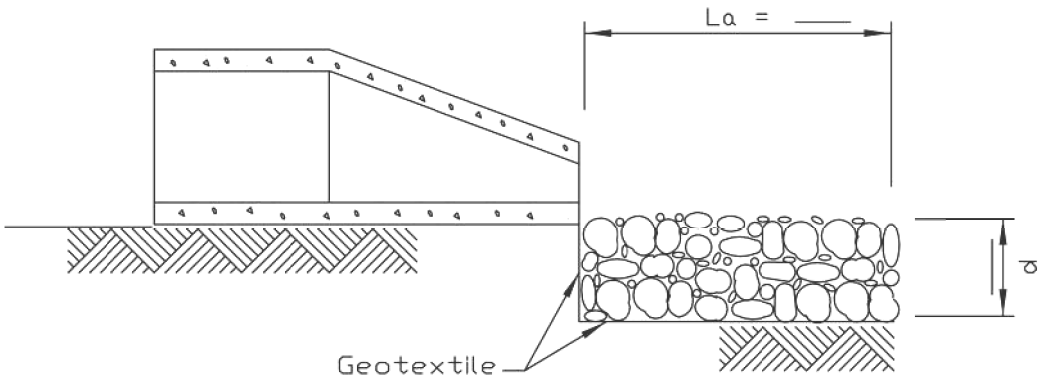
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CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

PIPE OUTLET TO FLAT AREA



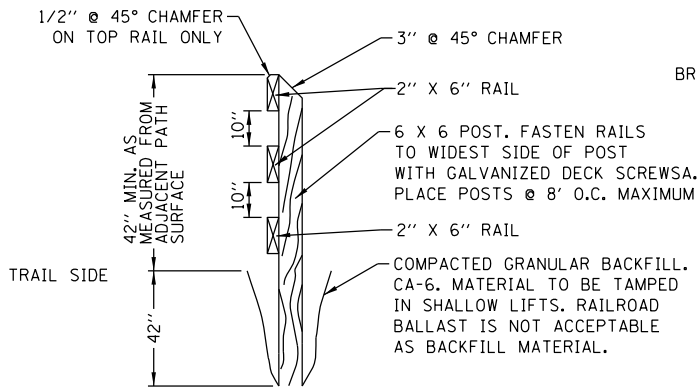
PLAN



SECTION A-A

NOTES:

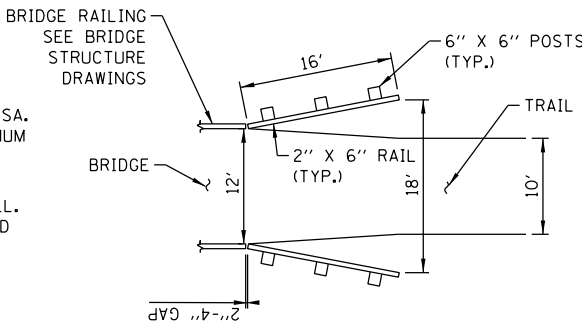
1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class I, II or III.
2. The rock riprap shall meet the IDOT requirements for the following gradation: RR _____, Quality _____.
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.



- NOTES:
1. ALTERNATE JOINTS IN RAILS BY USING 8' AND 16' LUMBER.
 2. PLACE BARK SIDE AWAY FROM POST.
 3. CHAMFER RAILS 45° AT TERMINAL POSTS.
 4. ALL FENCE WOOD TO BE ACO TREATED PINE GRADE #1 OR BETTER.

WOOD BICYCLE RAILING SECTION (TYP.)

NOT TO SCALE



PLAN - RAILING DETAIL AT BRIDGE ENDS

NOT TO SCALE

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DRAWN - JS	REVISED -	
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PLOT DATE = SDATES	DATE - 2-12-25	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	63
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

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The diagram illustrates a cross-section of a road construction project. It shows the 'EXISTING PAVEMENT' at the bottom, which is being replaced by 'PROPOSED HMA SURFACE REMOVAL' (indicated by a dashed line). A 'TEMPORARY HMA RAMP' is shown as a sloped section of the new surface. The 'PROPOSED PAY LIMIT OF HMA SURF. REMOVAL' is indicated by a horizontal line at the top of the ramp. The 'FULL THICKNESS OF MILLING' is shown as a horizontal line above the ramp. The 'TEMPORARY RAMP' is labeled with '(NOTE "C")' and '(NOTE "E")'. The '4'-6" (1.35 m) PAY LIMIT FOR BUTT JOINT' is labeled with '(NOTE "D")' and '(NOTE "F")'. A 'SAW CUT' is shown on the right side of the ramp. The 'EXISTING HMA SURFACE' is shown as a dashed line on the right. The ramp is composed of three layers: '1 3/4 (45) FOR E AND SMA 9.5 MIX', '1 1/2 (40) FOR D MIX', and '2 (50) FOR SMA 12.5 MIX'. A star symbol is located on the left side of the ramp.

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- 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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS
 * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. 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

1. 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".
2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS

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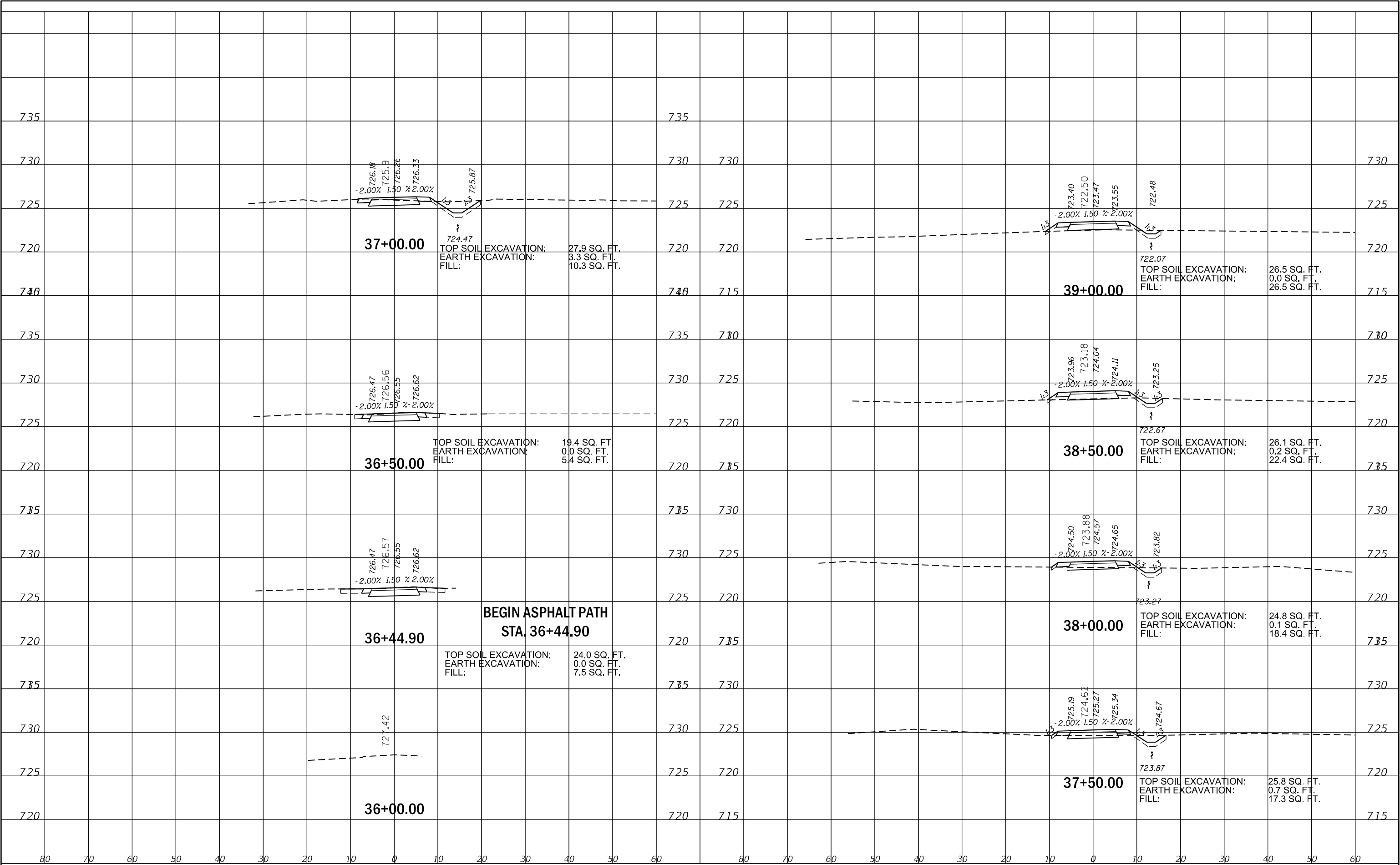
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ILLINOIS		FED. AID PROJECT		

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NOTE BOOK	TEMPLATE		
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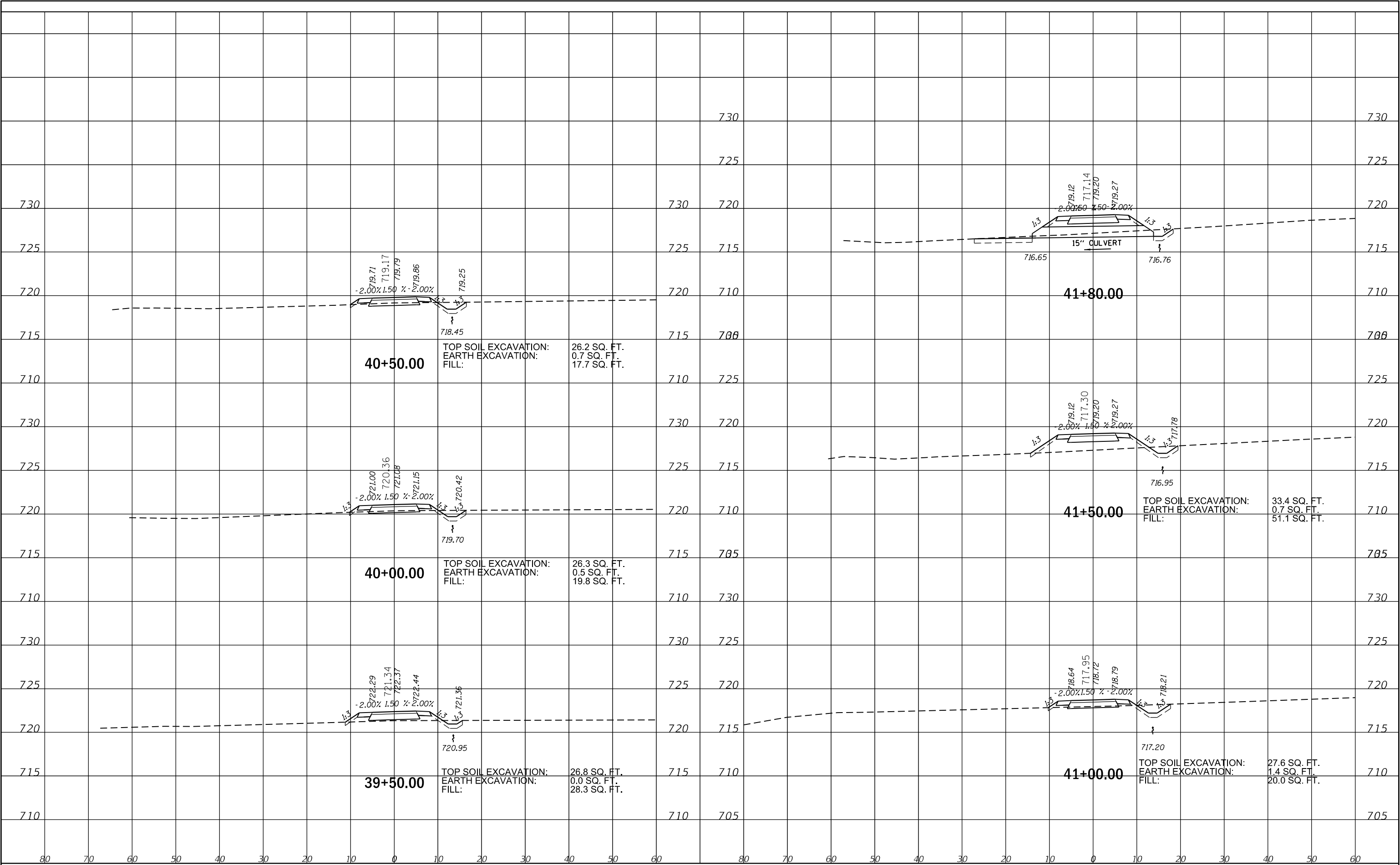
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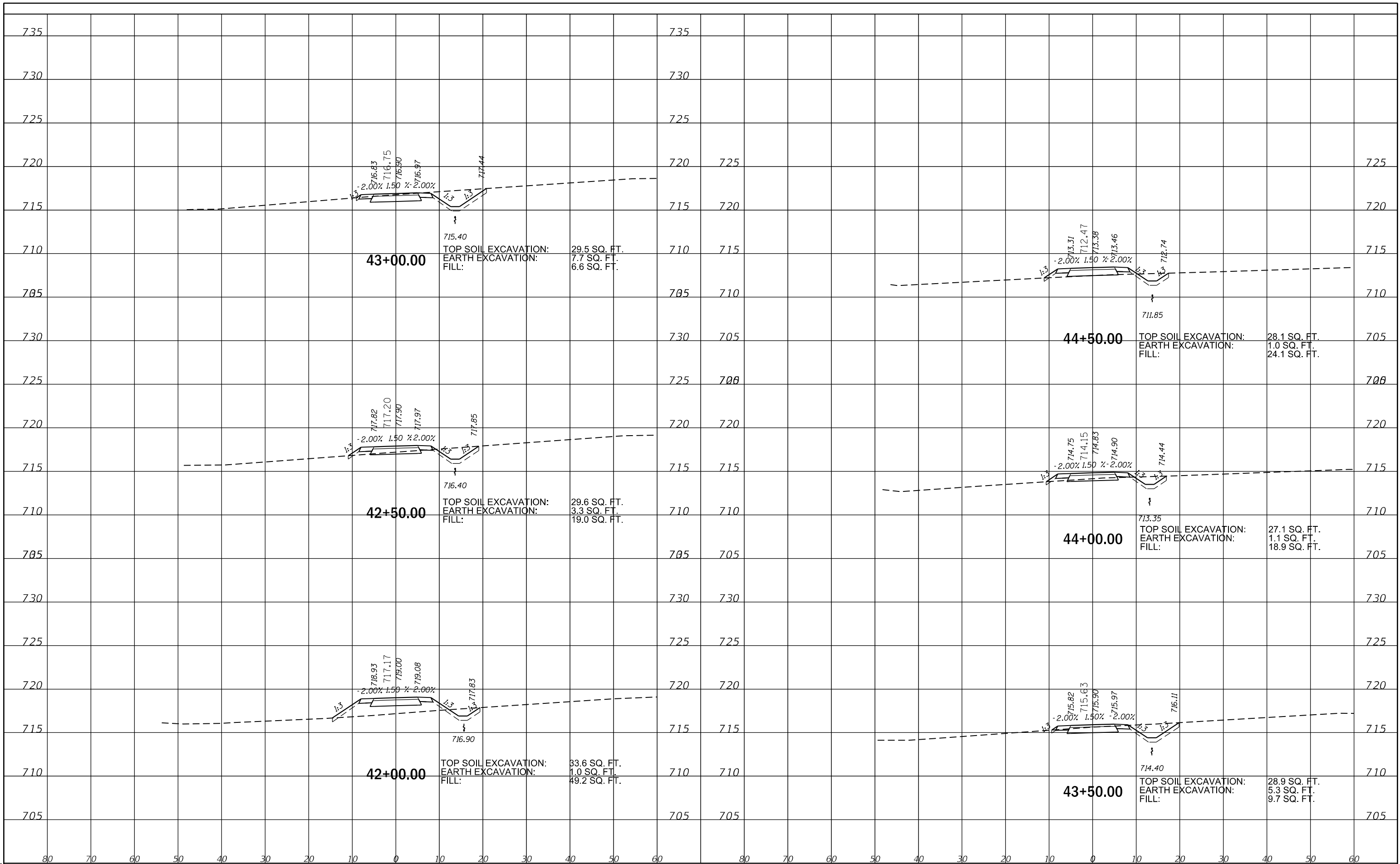
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REVISED	-
REVISED	-
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLUM CREEK TRAIL X-SECTIONS

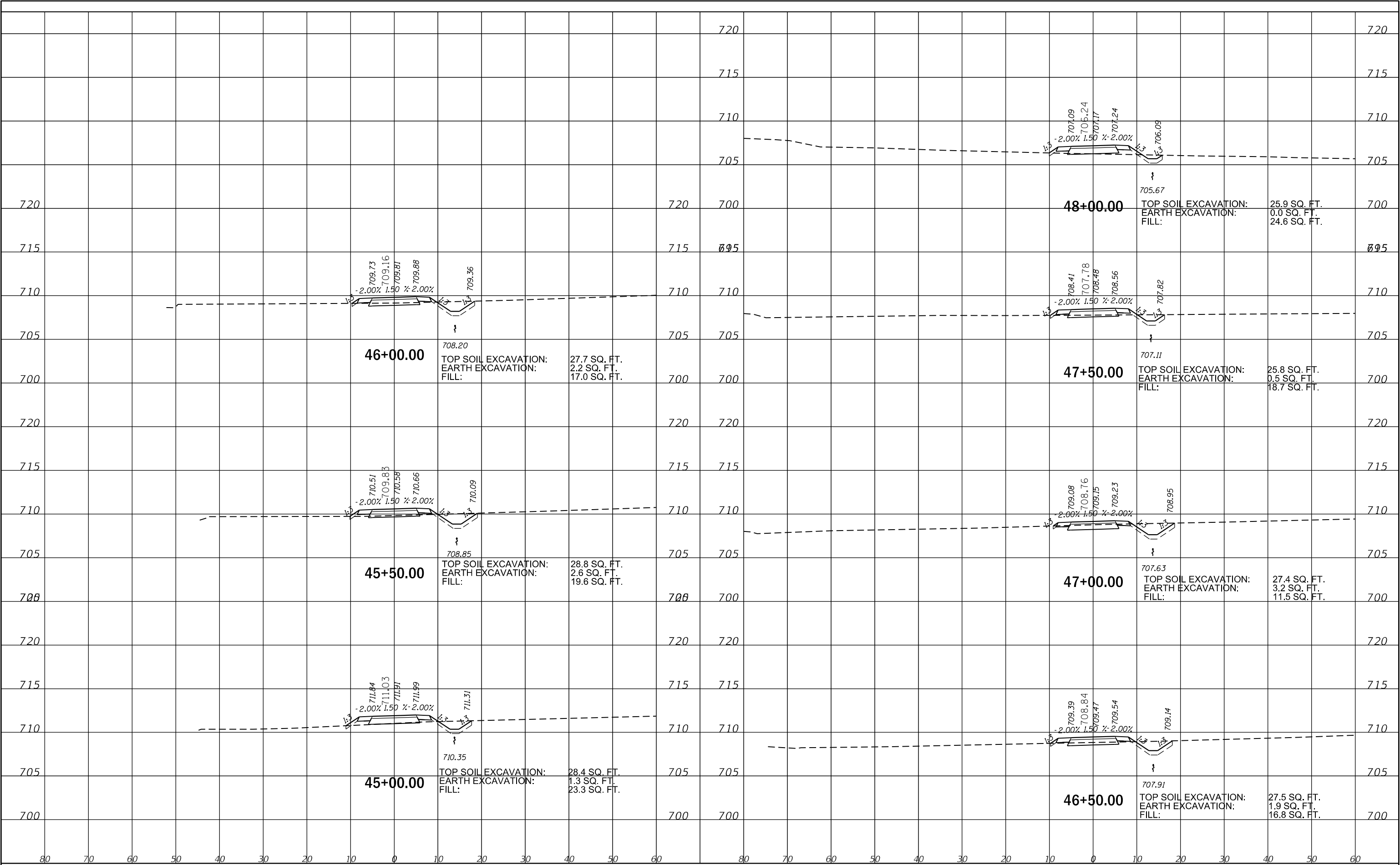
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		CONTRACT NO. 61K44		
	ILLINOIS	FED. AID PROJECT		

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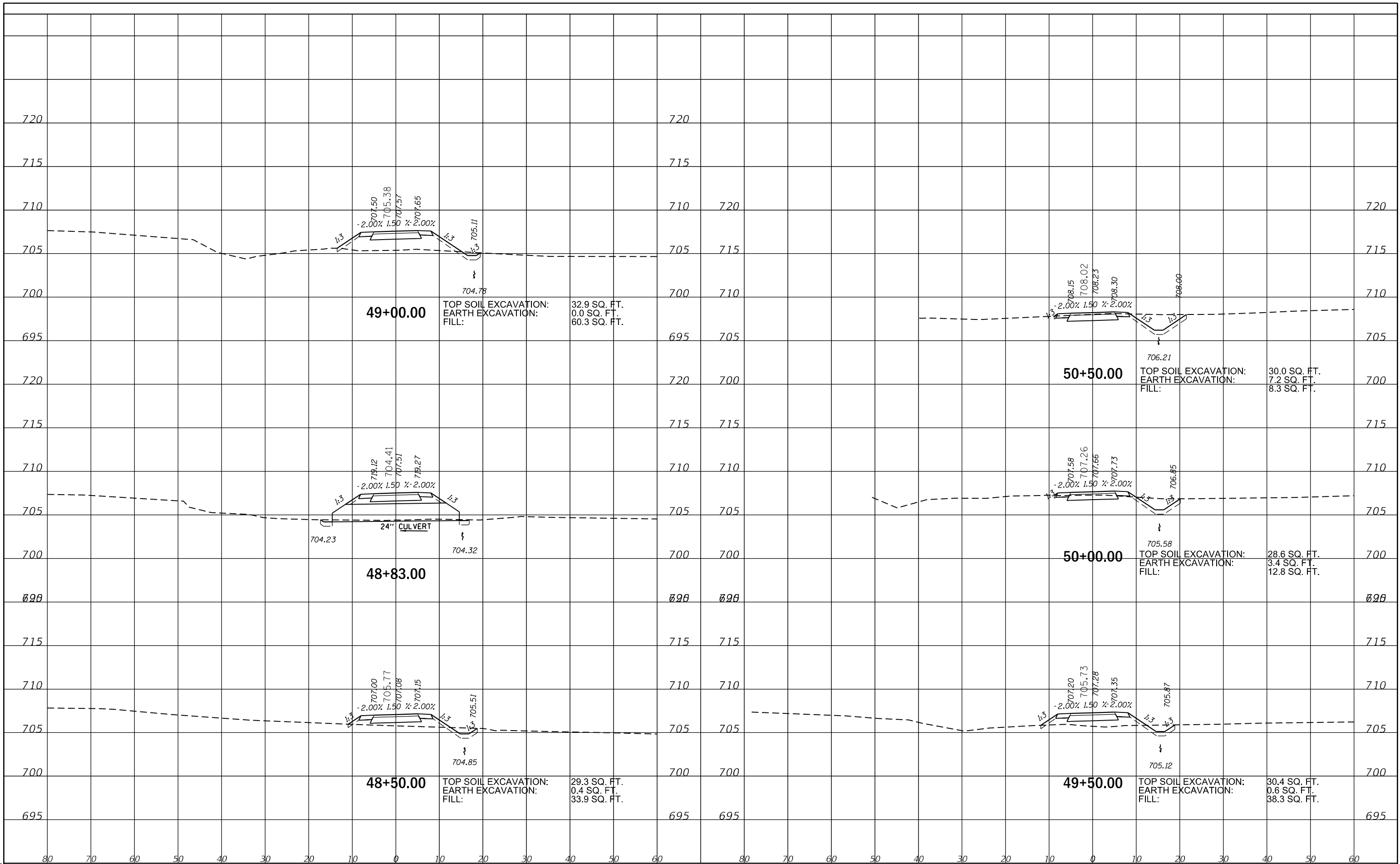


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NOTE BOOK	TEMPLATE _____		
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NO _____	AREAS CHECKED _____		

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	PLOTTED				
	TEMPLATE				
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

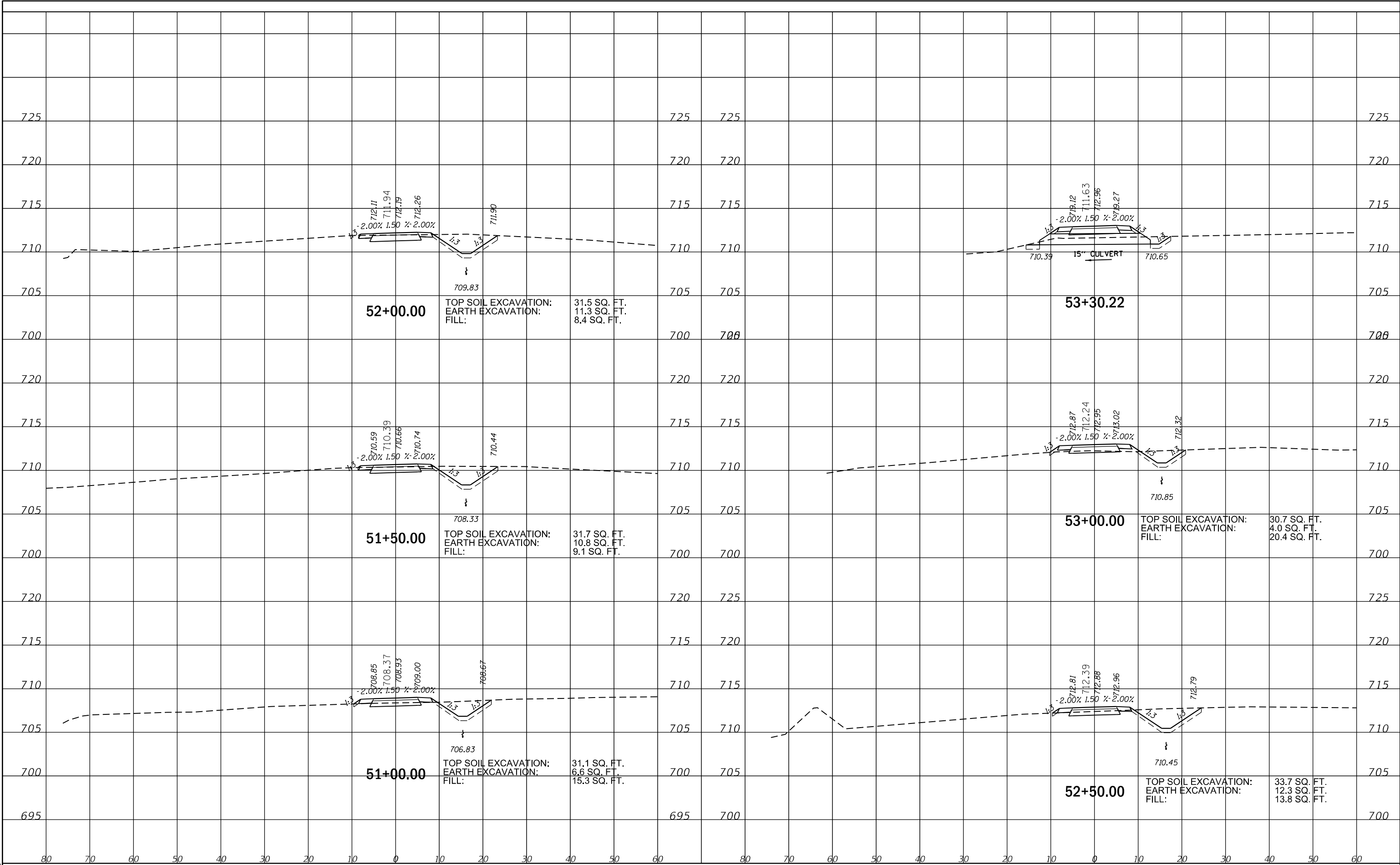
PLUM CREEK TRAIL X-SECTIONS

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		CONTRACT NO. 61K44		
ILLINOIS		FED. AID PROJECT		

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	PLOTTED			
	TEMPLATE			
	AREAS			
NOTE BOOK	AREAS		CHECKED	
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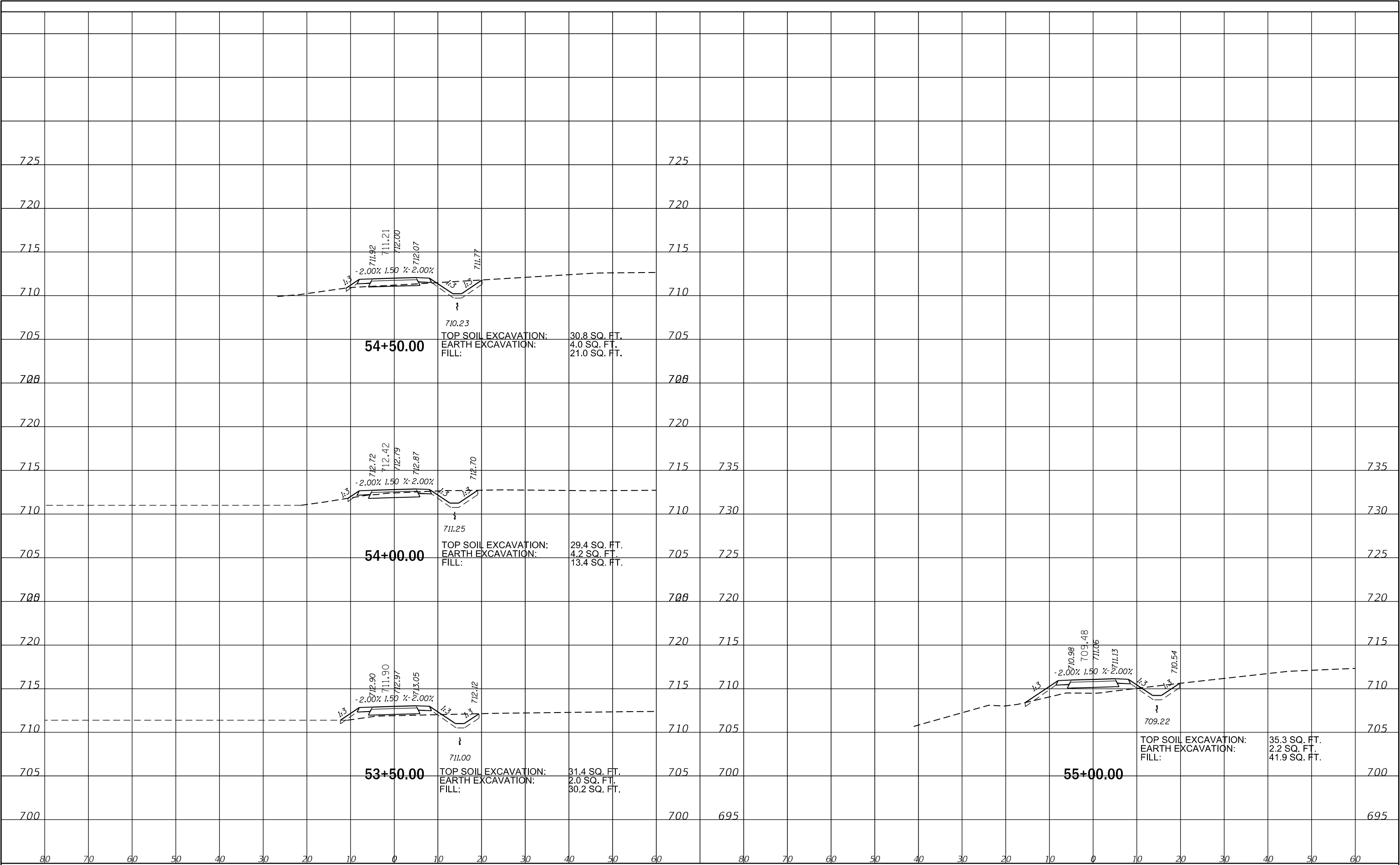


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	NOTE BOOK		

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NOTE BOOK			

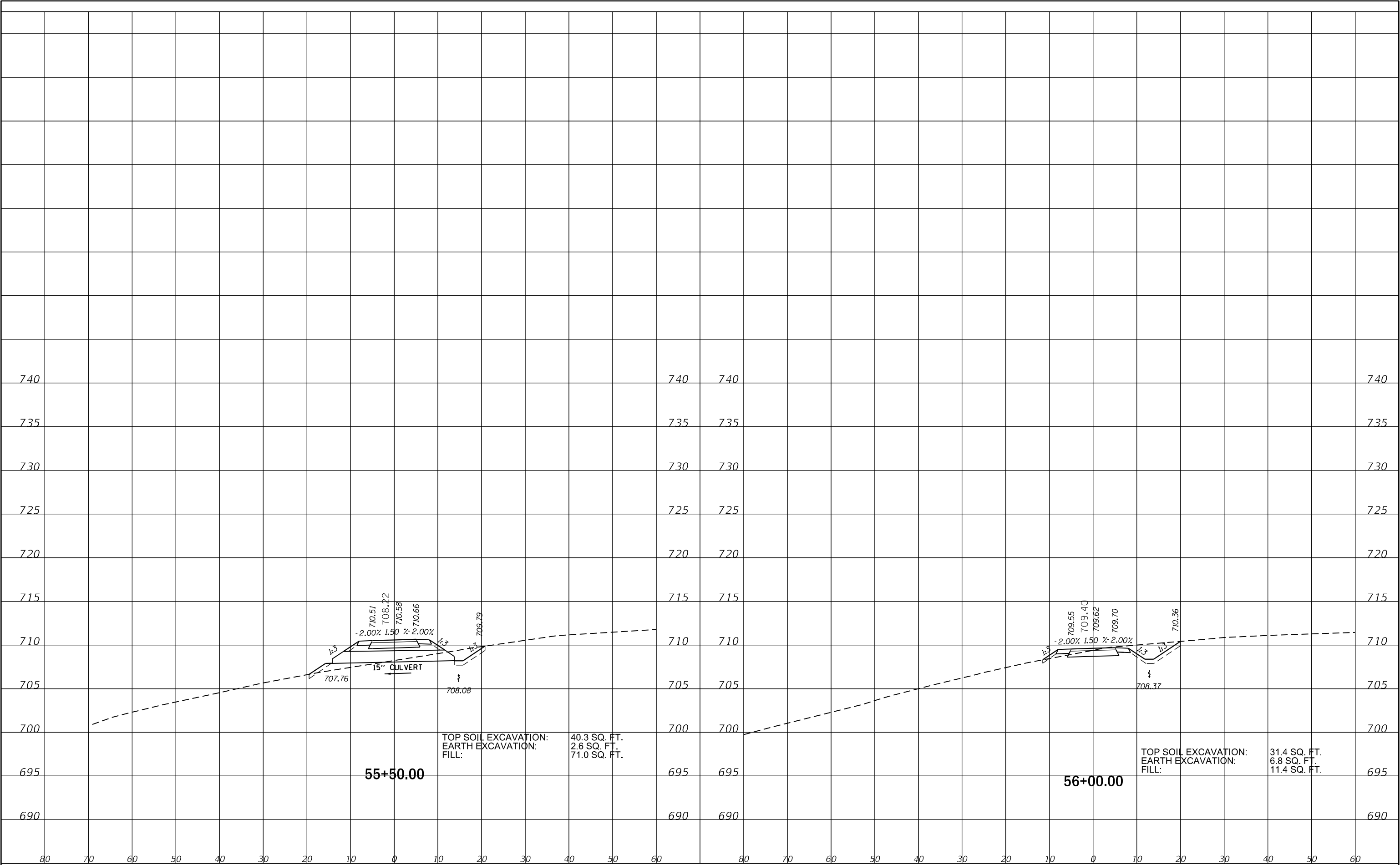
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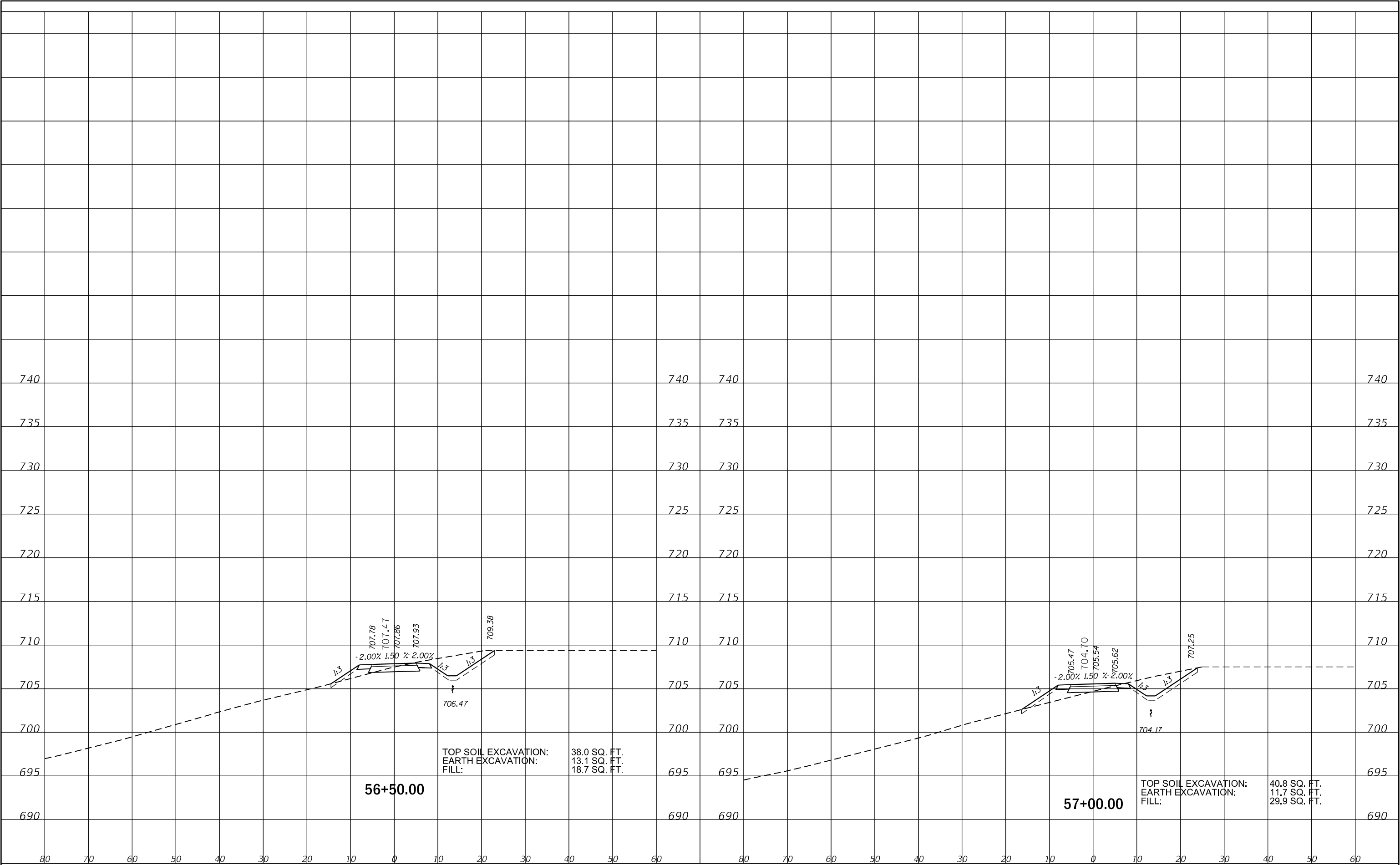
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	CHECKED		

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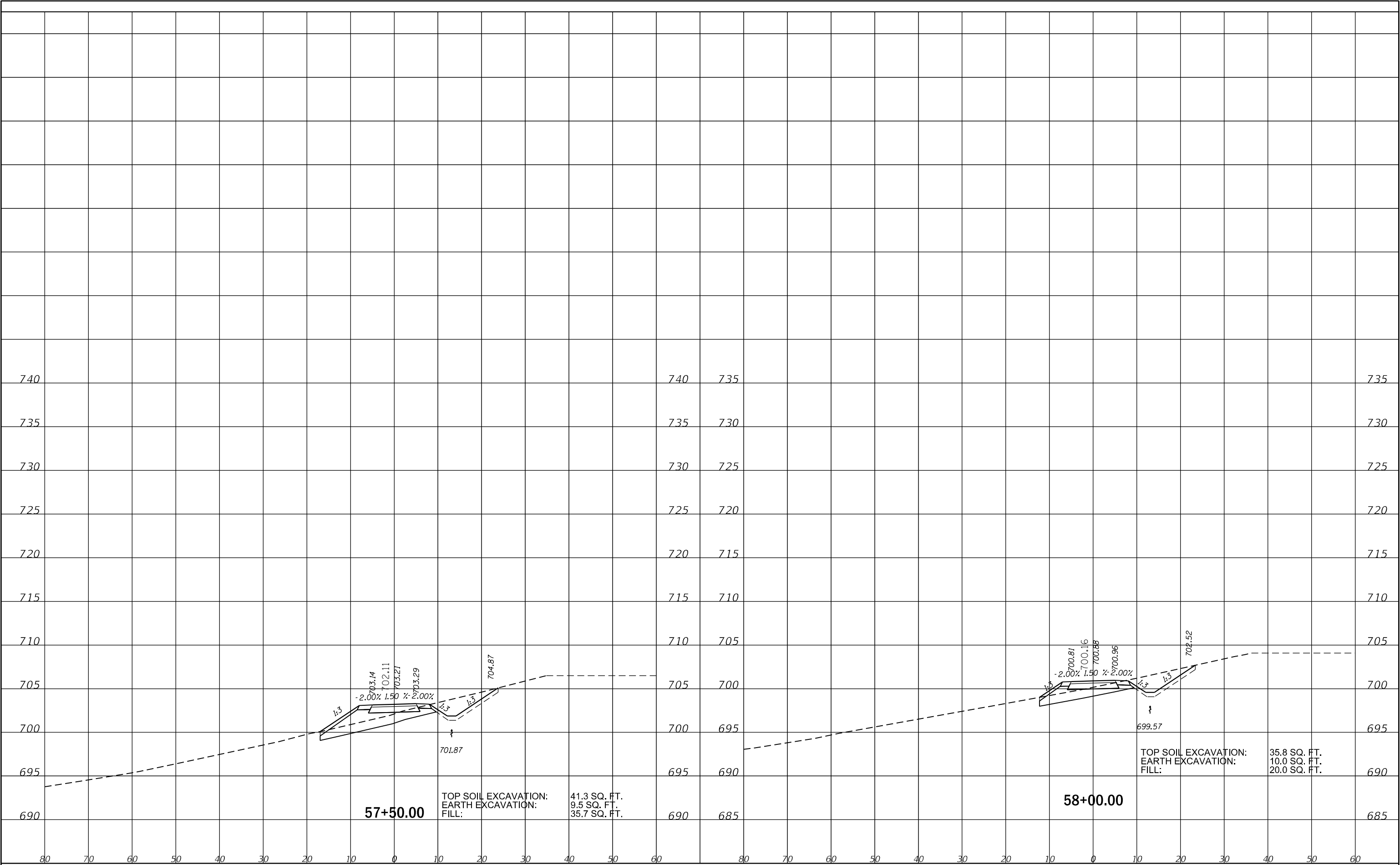


 TERRA ENGINEERING LTD.	USER NAME = SUSER\$	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLUM CREEK TRAIL X-SECTIONS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JS	REVISED -							20-F3000-06-BT	WILL	88	74
	PLOT SCALE = \$SCALE\$	CHECKED - DL	REVISED -		CONTRACT NO. 61K44								
	PLOT DATE = \$DATE\$	DATE - 12/20/2024	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 56+50.00	TO STA. 57+00.00	ILLINOIS FED. AID PROJECT		

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

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

MODEL: SH06LMM005
FILE NAME: 61K44

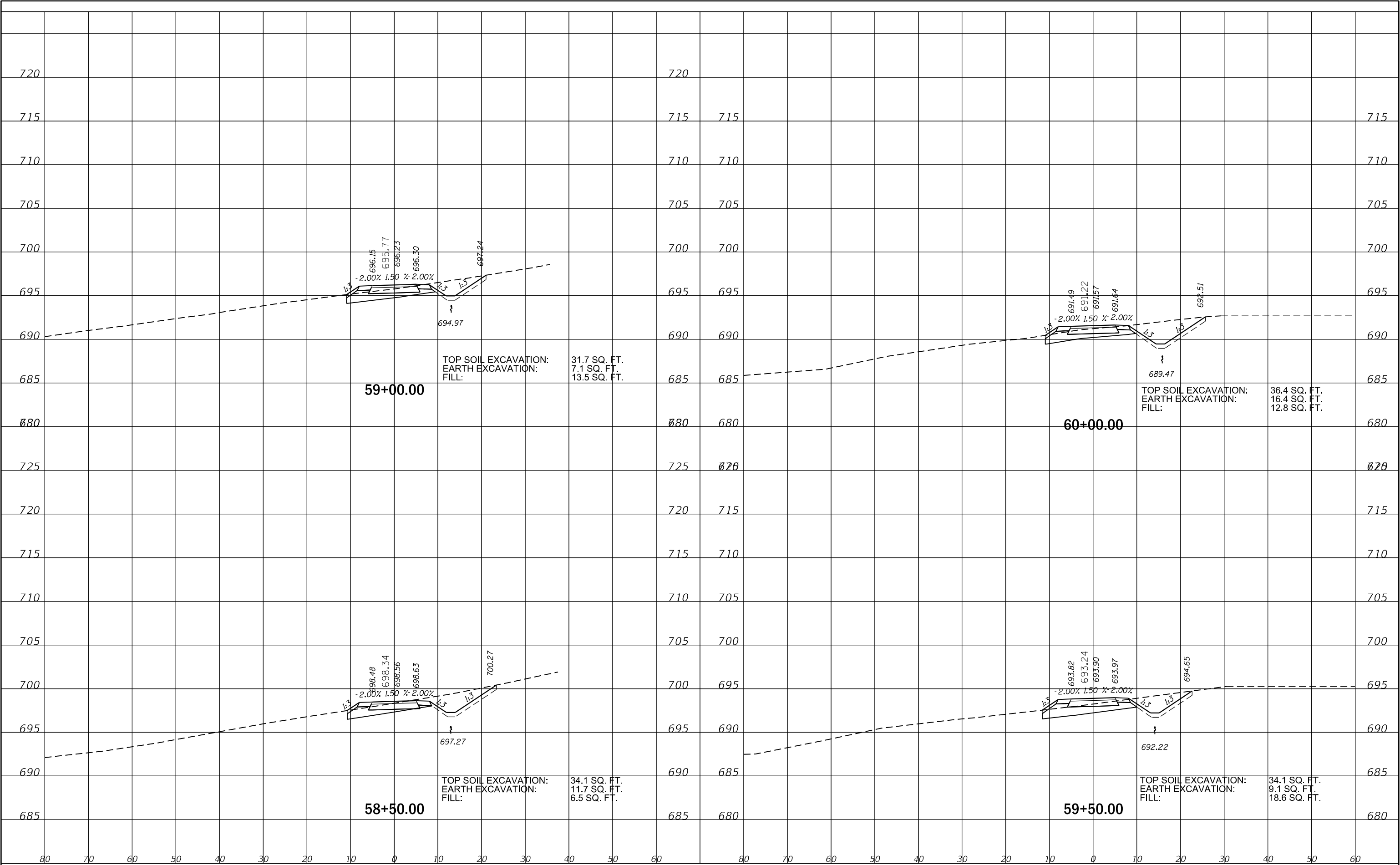


	USER NAME = SUSERS		DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				PLUM CREEK TRAIL X-SECTIONS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - JS	REVISED -										20-F3000-06-BT	WILL	88	75
	PLOT SCALE = 5SCALES		CHECKED - DL	REVISED -												CONTRACT NO. 61K44	
	PLOT DATE = 5DATES		DATE - 12/20/2024	REVISED -									SCALE:		SHEET OF SHEETS	STA. 57+50.00 TO STA. 58+00.00	ILLINOIS FED. AID PROJECT

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

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

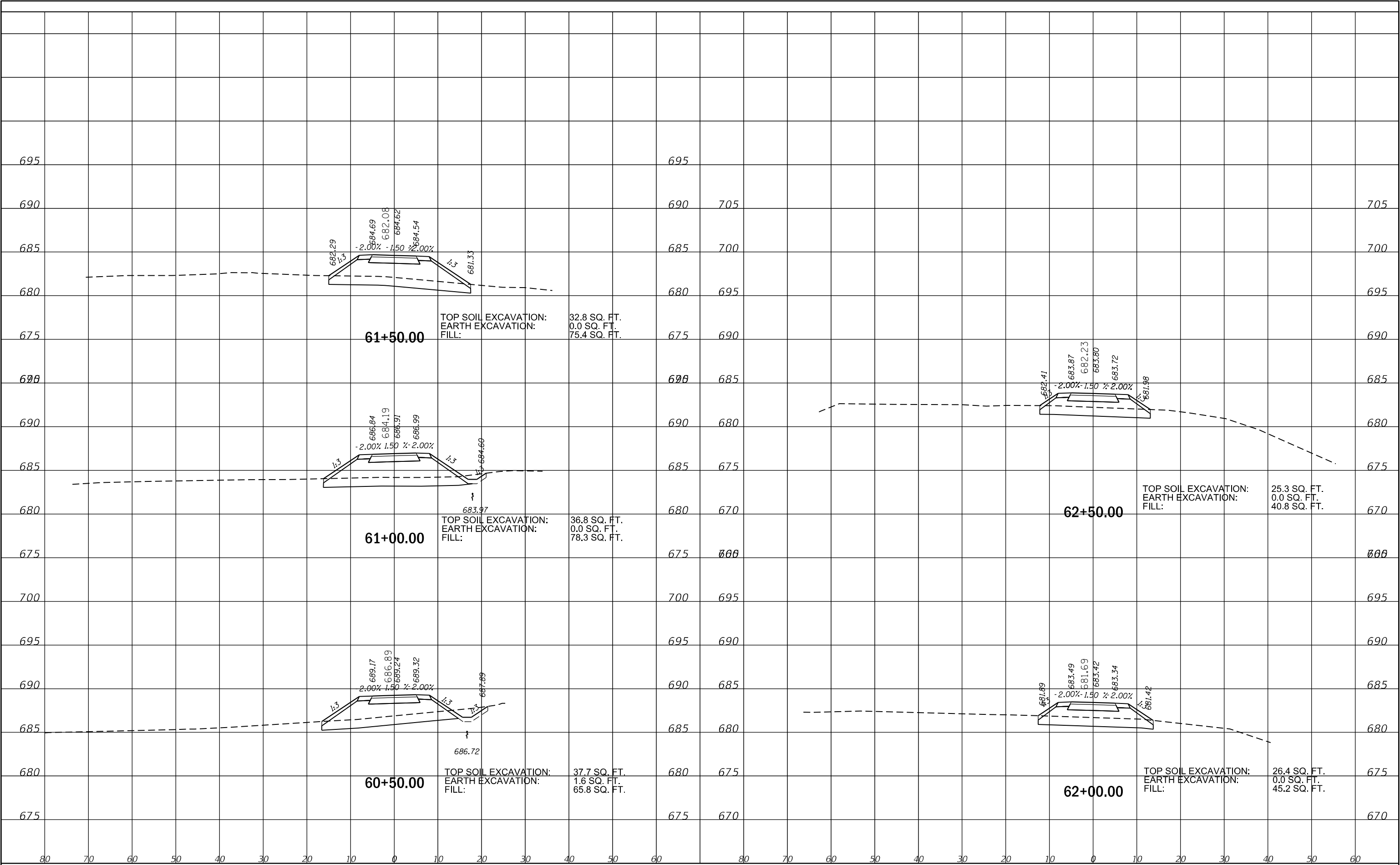
MODEL: SH06LMA06S
FILE NAME: 5FILES



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

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

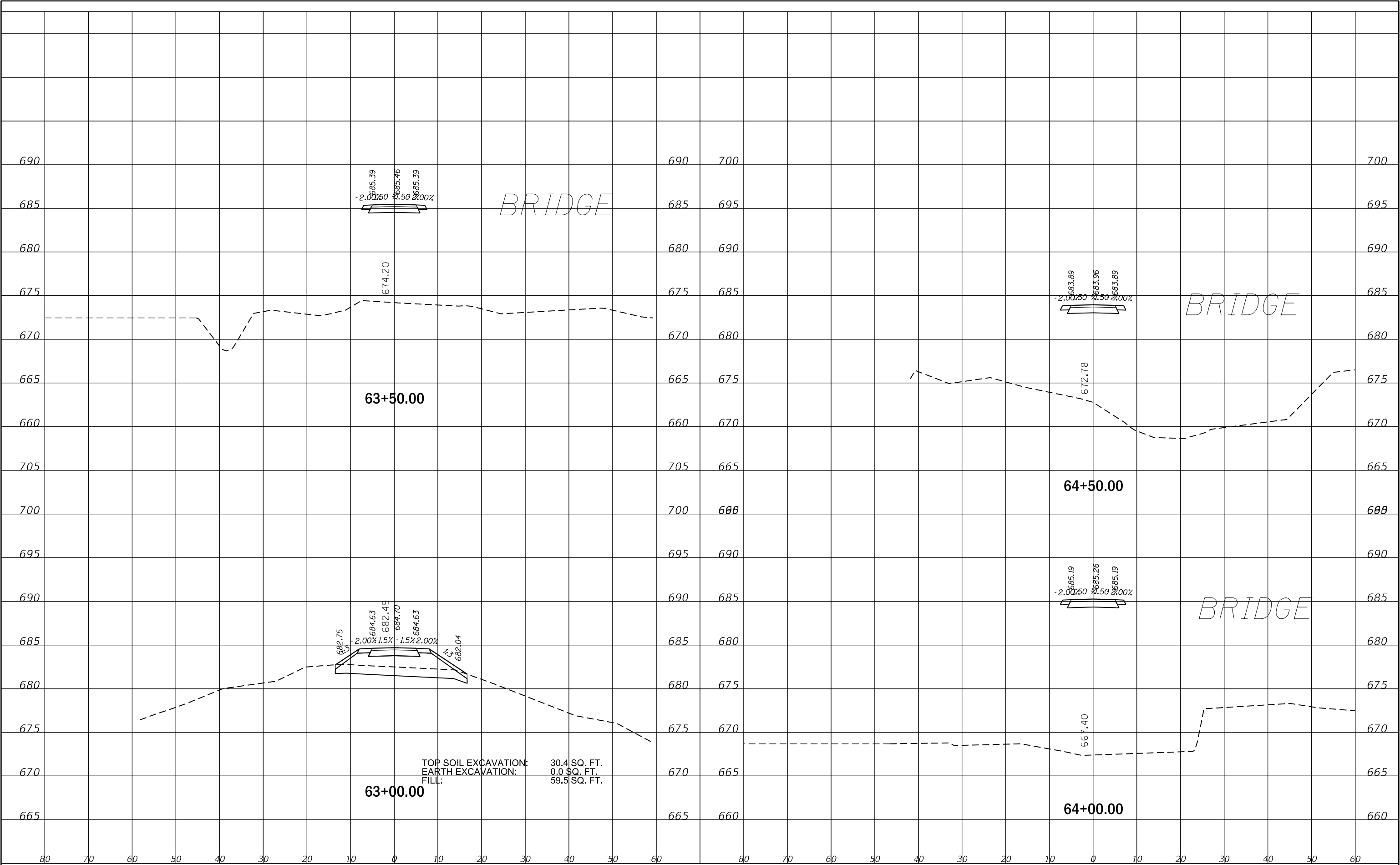
MODEL: 3040LUMAMES
FILE NAME: 311E15



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

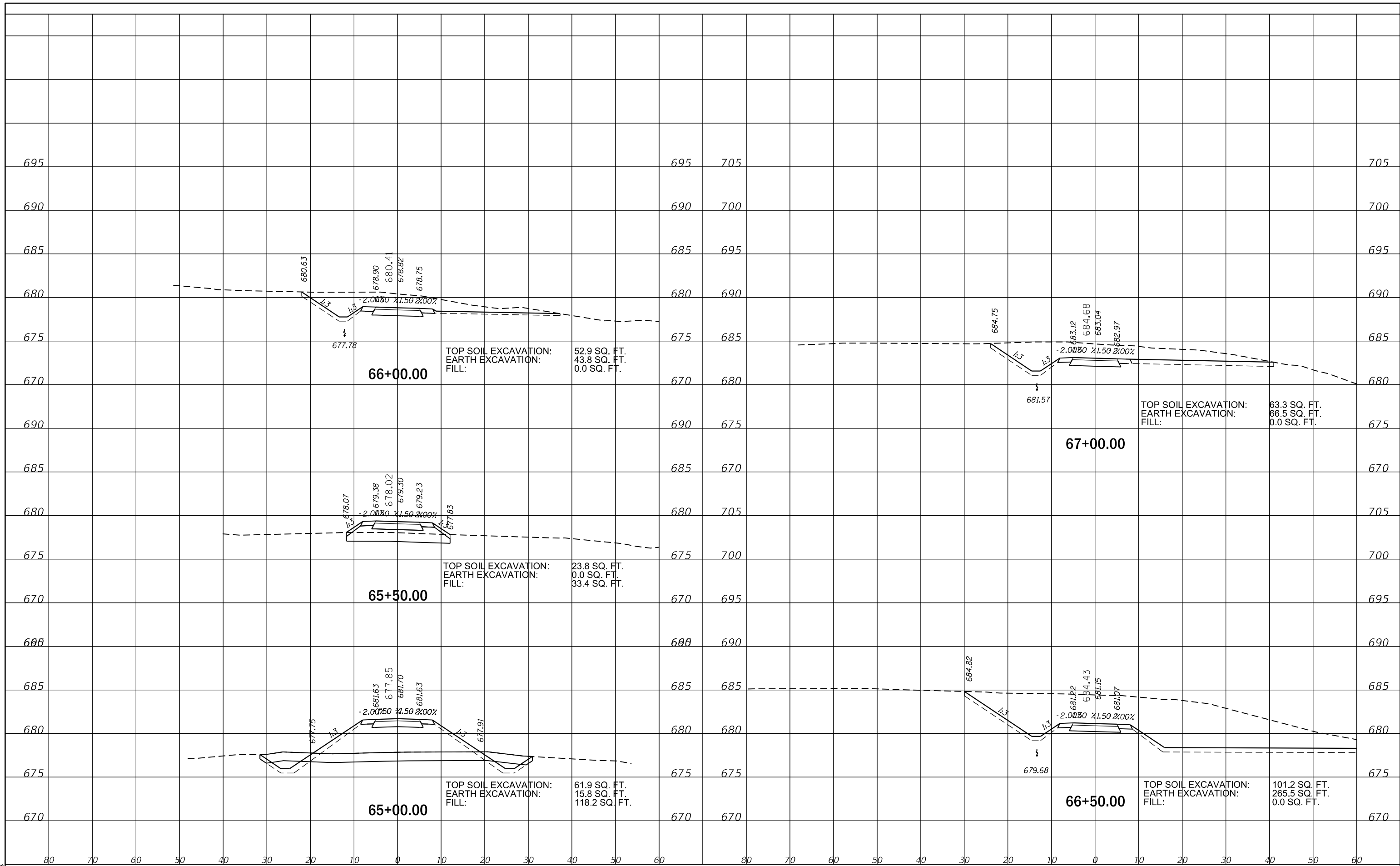
ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

MODEL: SH06LMM05
FILE NAME: 61FILES



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

ORIGINAL SURVEY			BY		DATE
	SURVEYED				
	PLOTTED				
	TEMPLATE				
	AREAS				
	AREAS CHECKED				
NO					



USER NAME = USUERS	DESIGNED - MA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = SSCALES	CHECKED - DL	REVISED -
PLOT DATE = SDATES	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLUM CREEK TRAIL X-SECTIONS

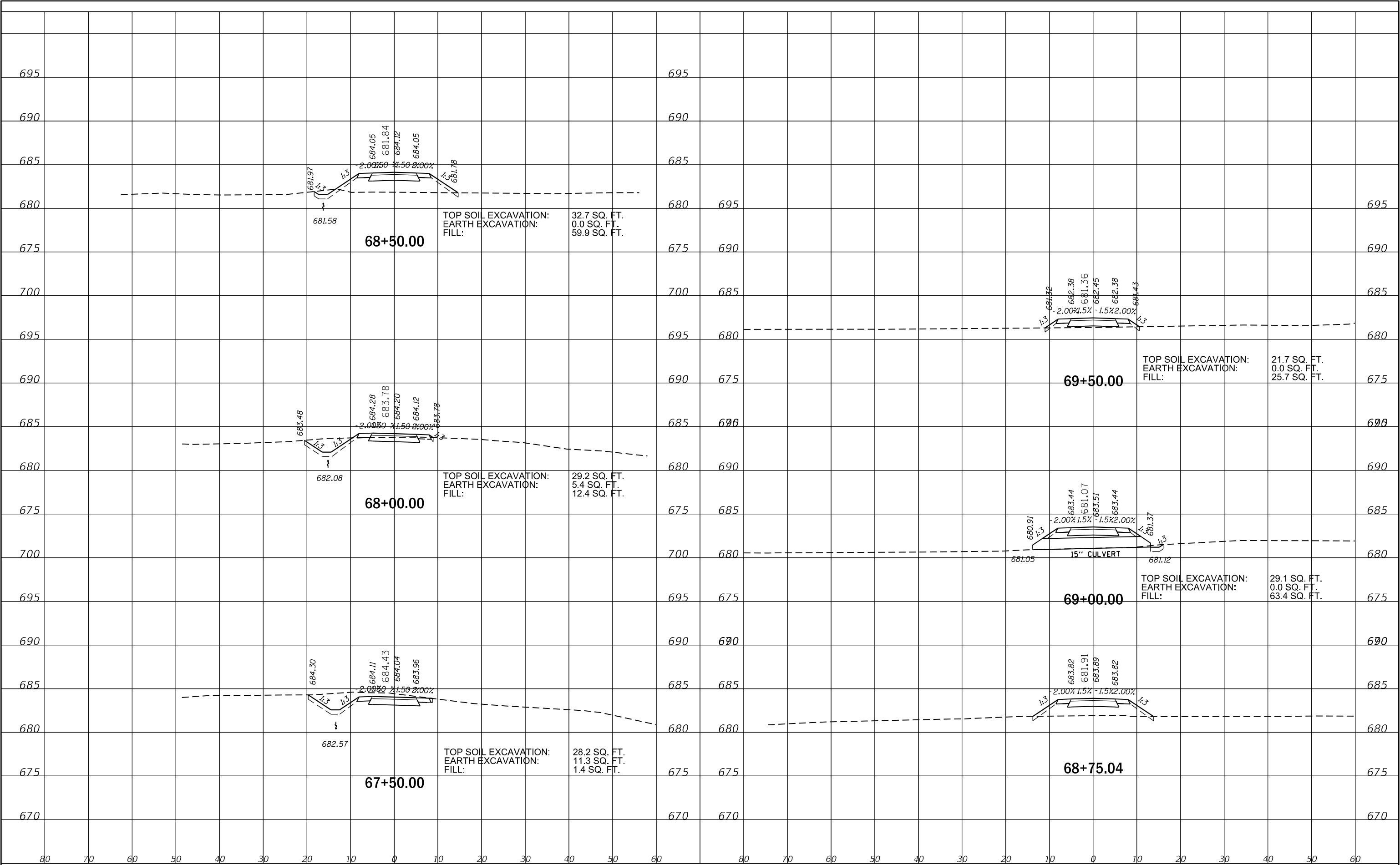
SCALE:	SHEET	OF	SHEETS	STA. 65+00.00	TO STA. 67+00.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	79
		CONTRACT NO. 61K44		
ILLINOIS		FED. AID PROJECT		

FINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK		
NO.	AREAS CHECKED	

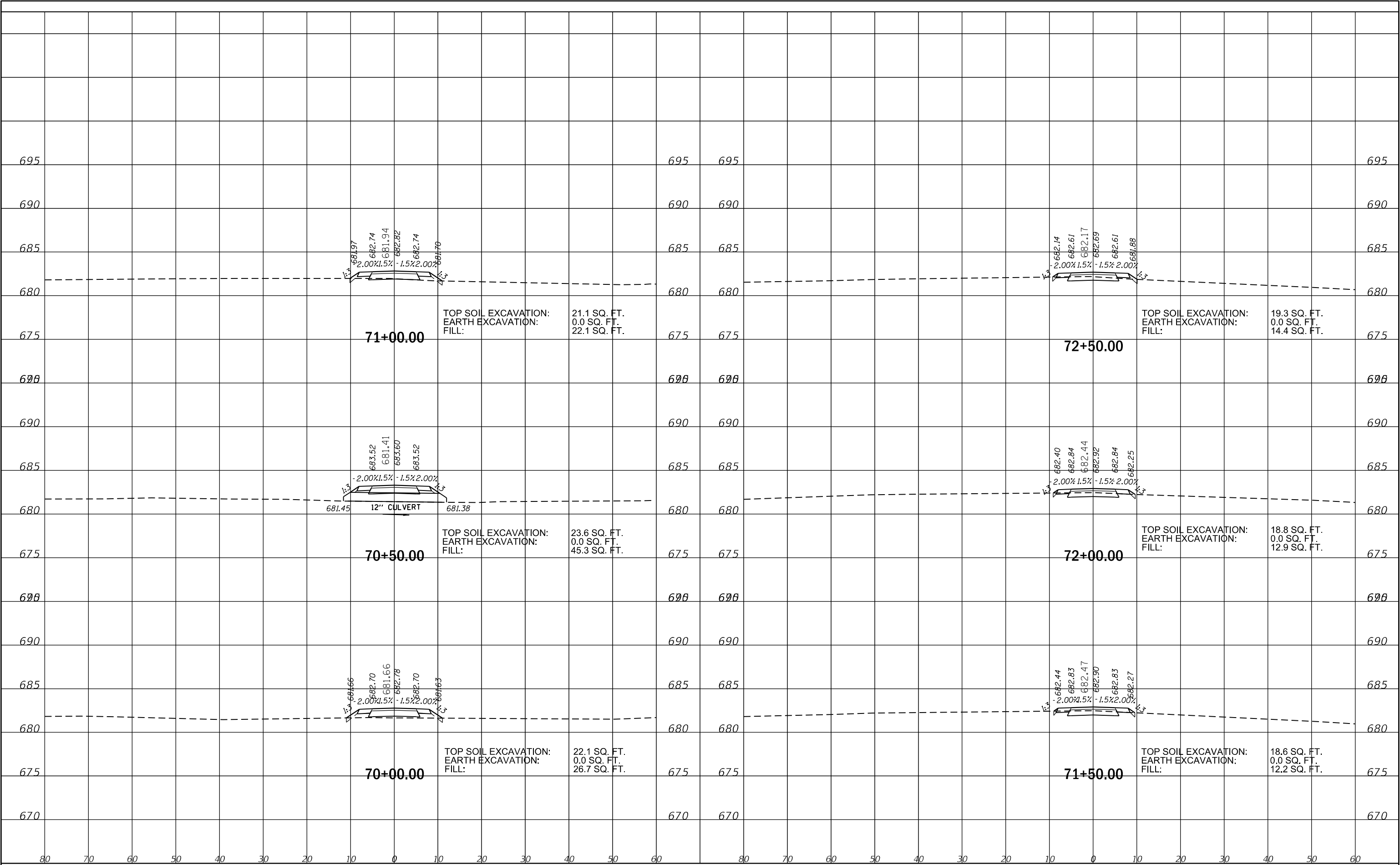
ORIGINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK		
NO.	AREAS CHECKED	

MODEL: SH06LMM016'S
FILE NAME: \$FILES



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

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



MODEL: SH06LMM06S
FILE NAME: 01FILES



USER NAME = SUSERS	DESIGNED - MA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = 5SCALES	CHECKED - DL	REVISED -
PLOT DATE = 5DATES	DATE - 12/20/2024	REVISED -

DESIGNED - MA	REVISED -
DRAWN - JS	REVISED -
CHECKED - DL	REVISED -
DATE - 12/20/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

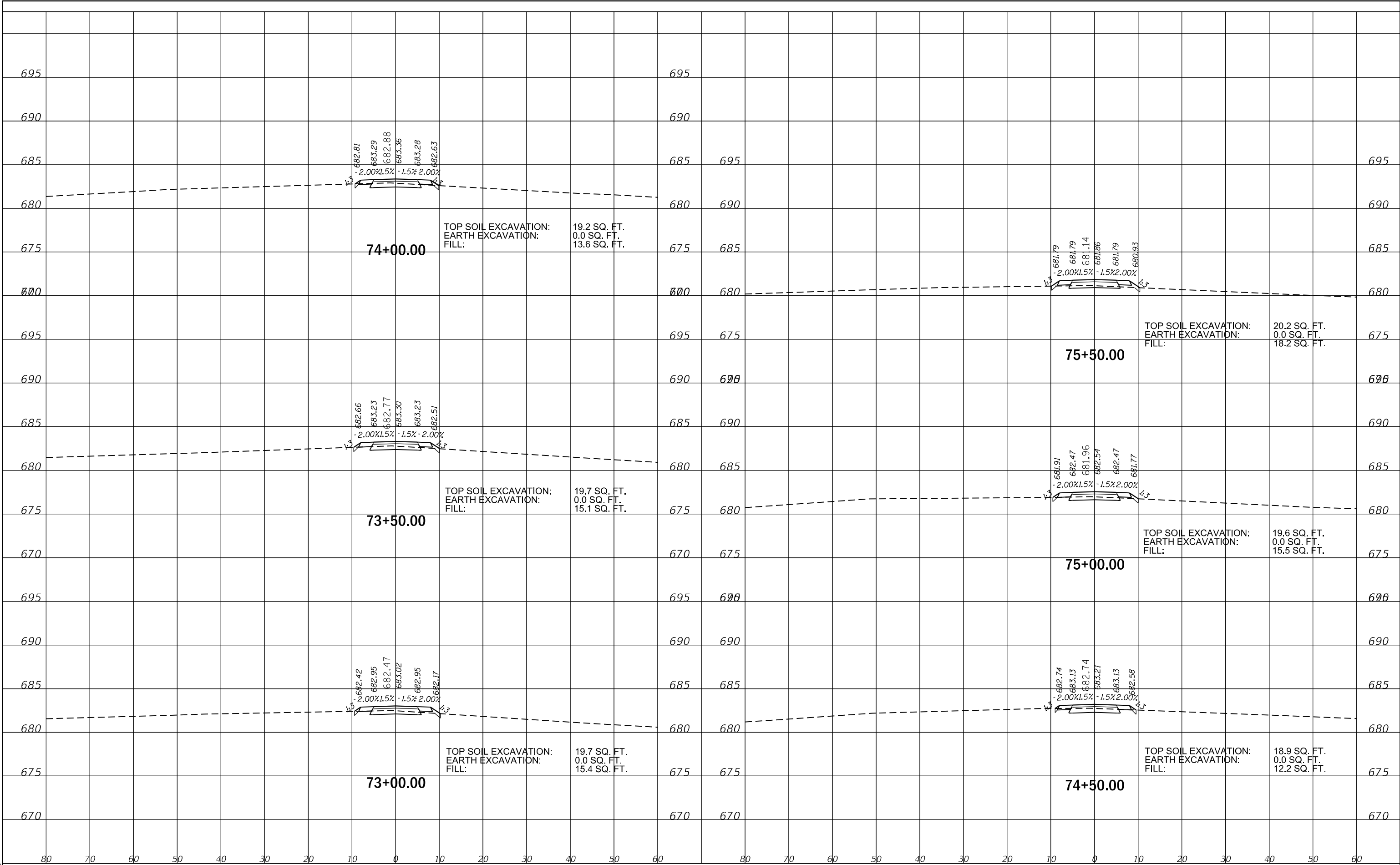
PLUM CREEK TRAIL
X-SECTIONS

SCALE:	SHEET	OF	SHEETS	STA. 70+00.00	TO STA. 72+50.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	81
CONTRACT NO. 61K44				
ILLINOIS FED. AID PROJECT				

FINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK		
NO.	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK		
NO.	AREAS CHECKED	

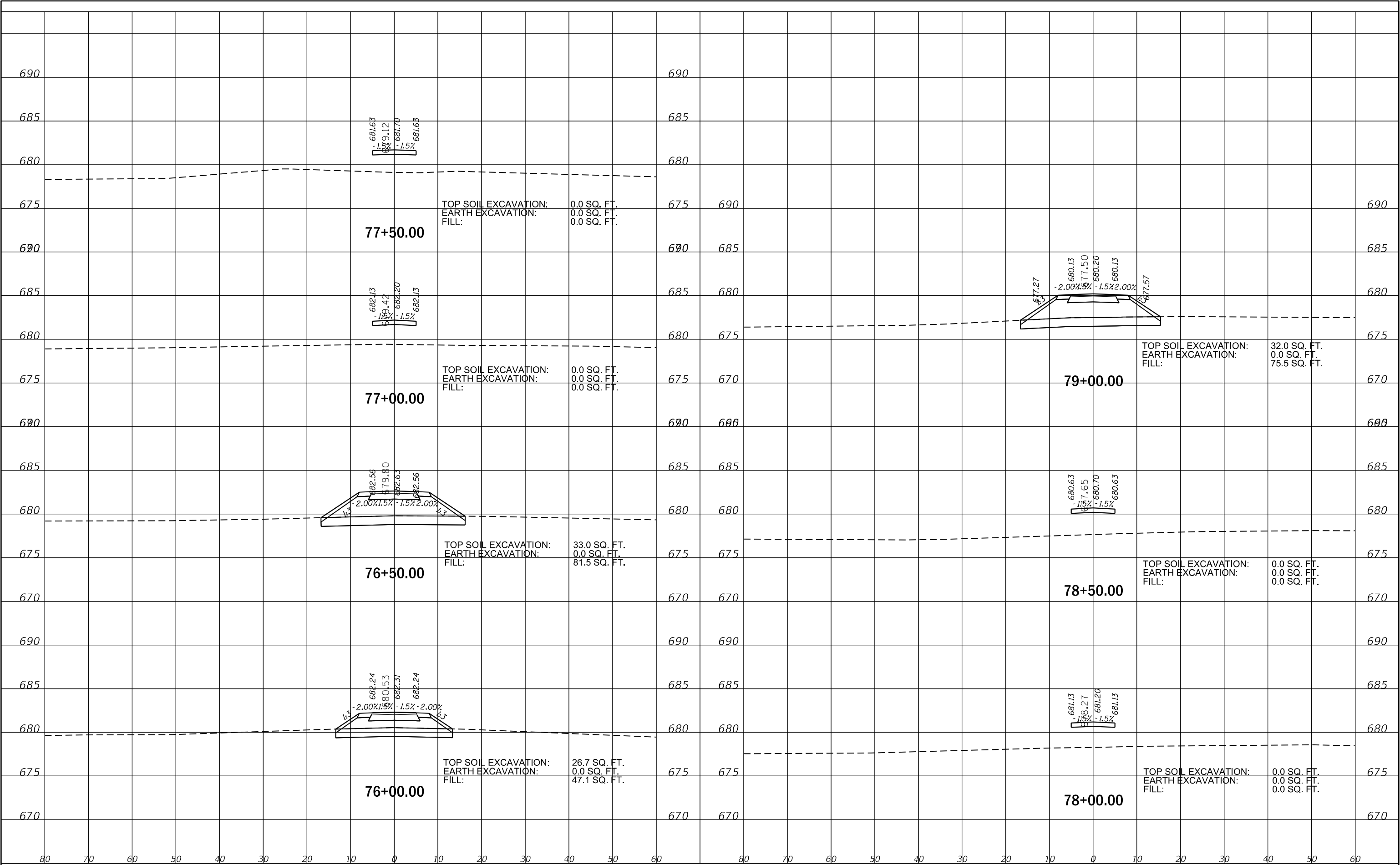


MODEL: SH06LMM001
FILE NAME: 01FILES

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

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

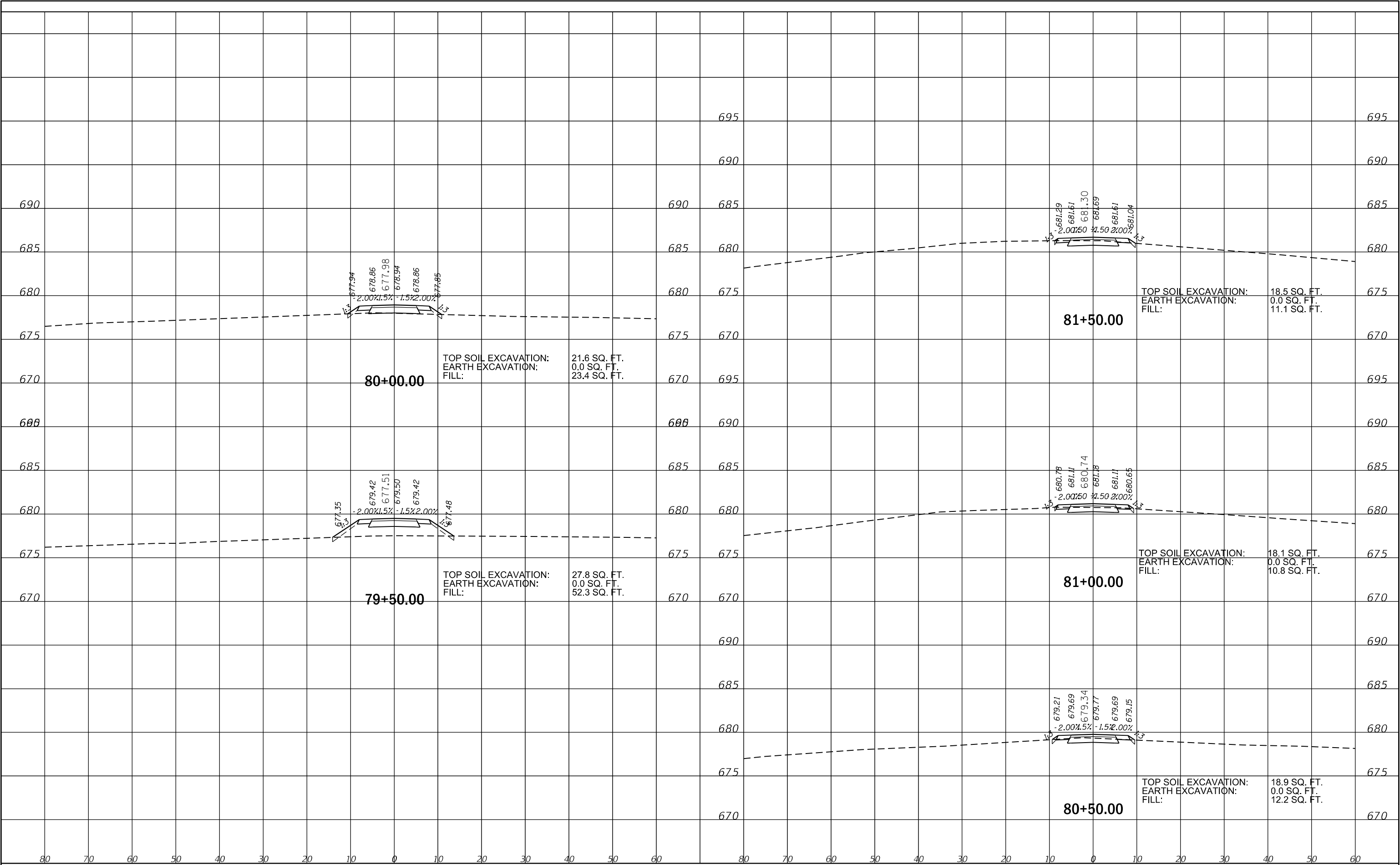
MODEL: SH06LMM06S
FILE NAME: 61K44



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

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

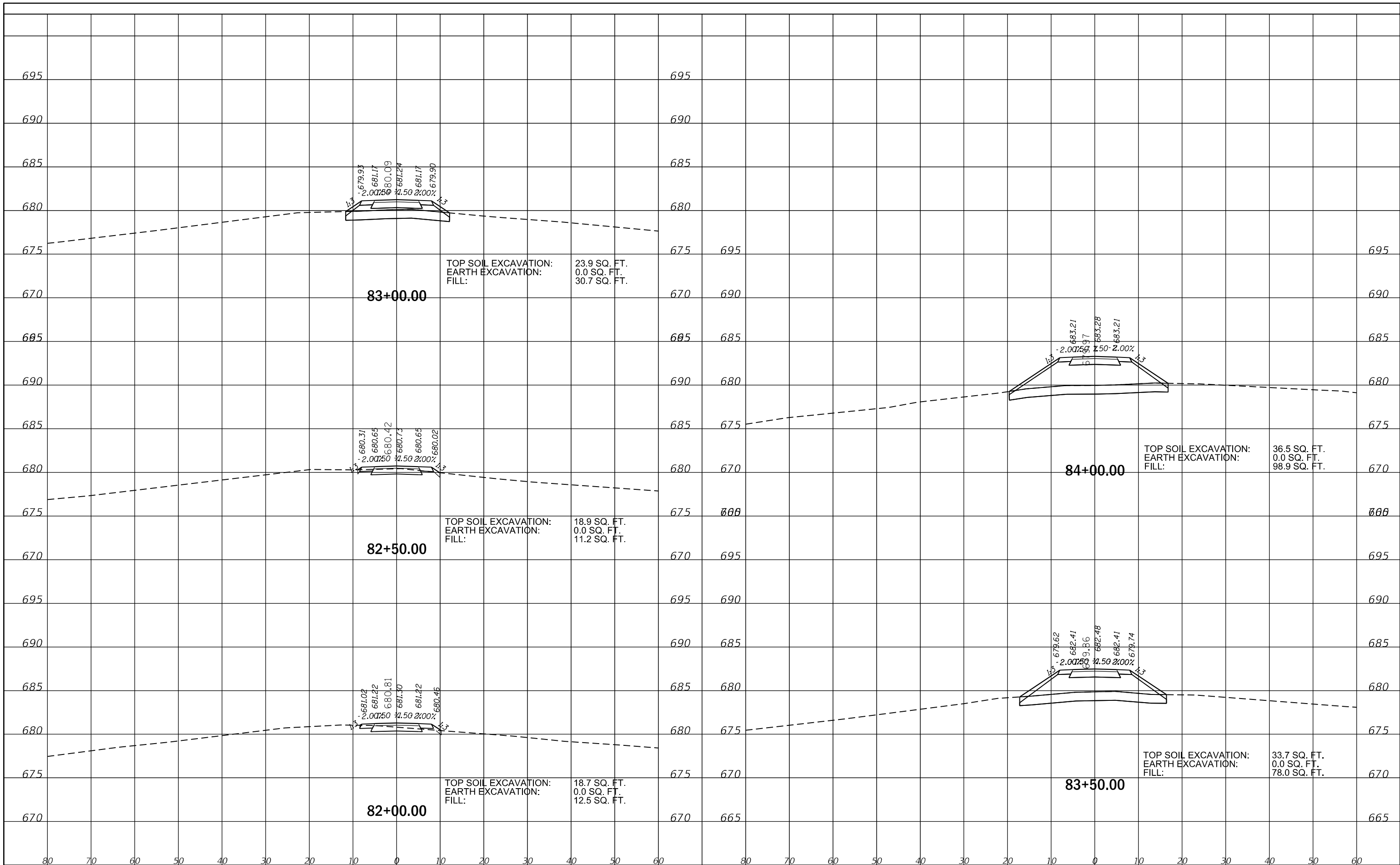
MODEL: SH06LMM005
FILE NAME: 01FILES



FINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
TEMAPIRE			
AREAS			
AREAS CHECKED			
NO			

ORIGINAL SURVEY	SURVEYED _____		BY _____	DATE _____
	PLOTTED _____			

	TEMPLATE _____			
	AREAS _____			
	AREAS CHECKED _____			
NO _____				

MODEL: \$MODELNAMES
FILE NAME: \$FILES\$

USER NAME = SUSERS	DESIGNED - MA
	DRAWN - JS
PLOT SCALE = SSCALE\$	CHECKED - DL
PLOT DATE = SDATES	DATE - 12/20/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLUM CREEK TRAIL X-SECTIONS

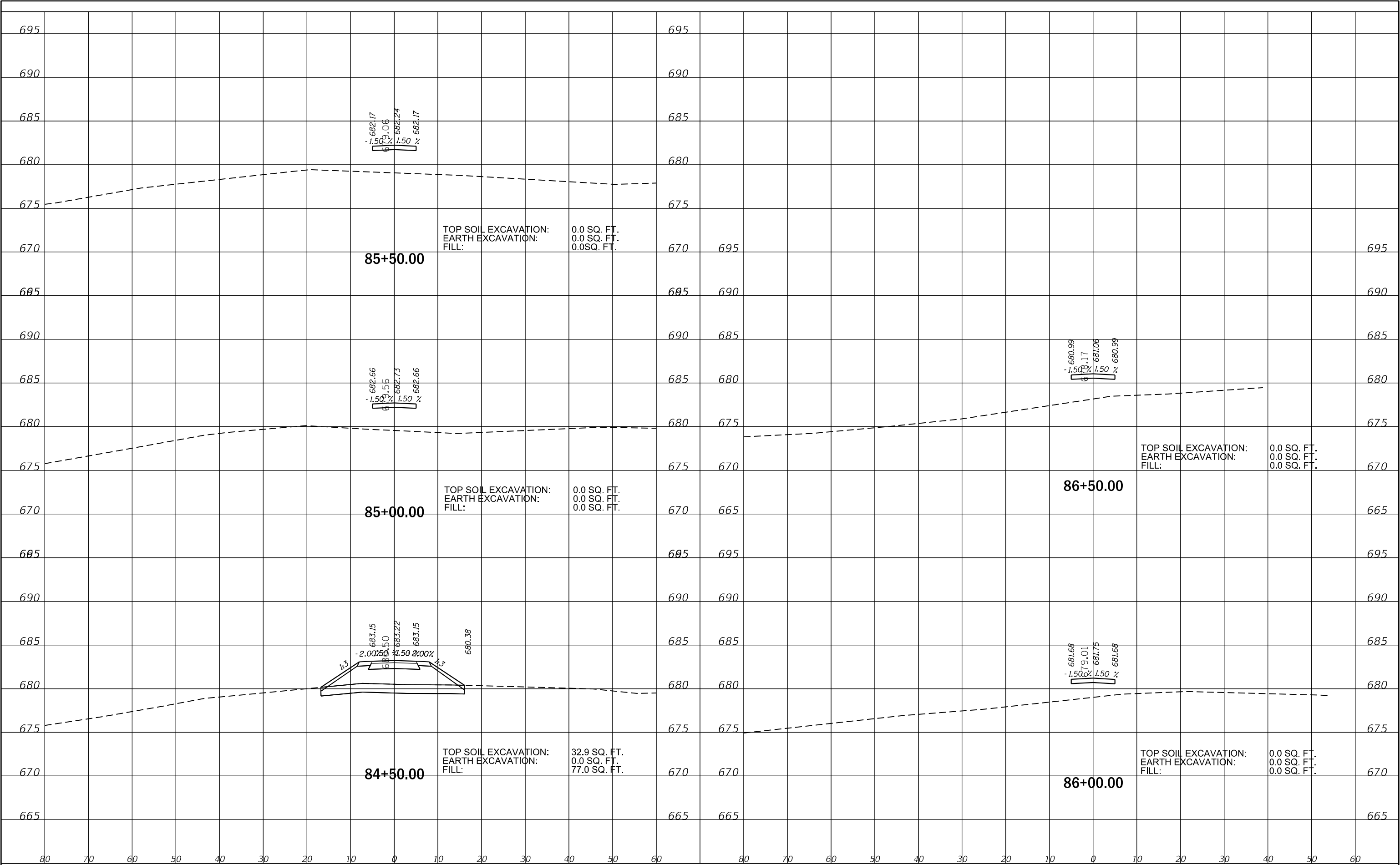
SCALE:	SHEET	OF	SHEETS	STA. 82+00.00	TO STA. 84+00.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	85
		CONTRACT NO. 61K44		
		ILLINOIS	FED. AID PROJECT	

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

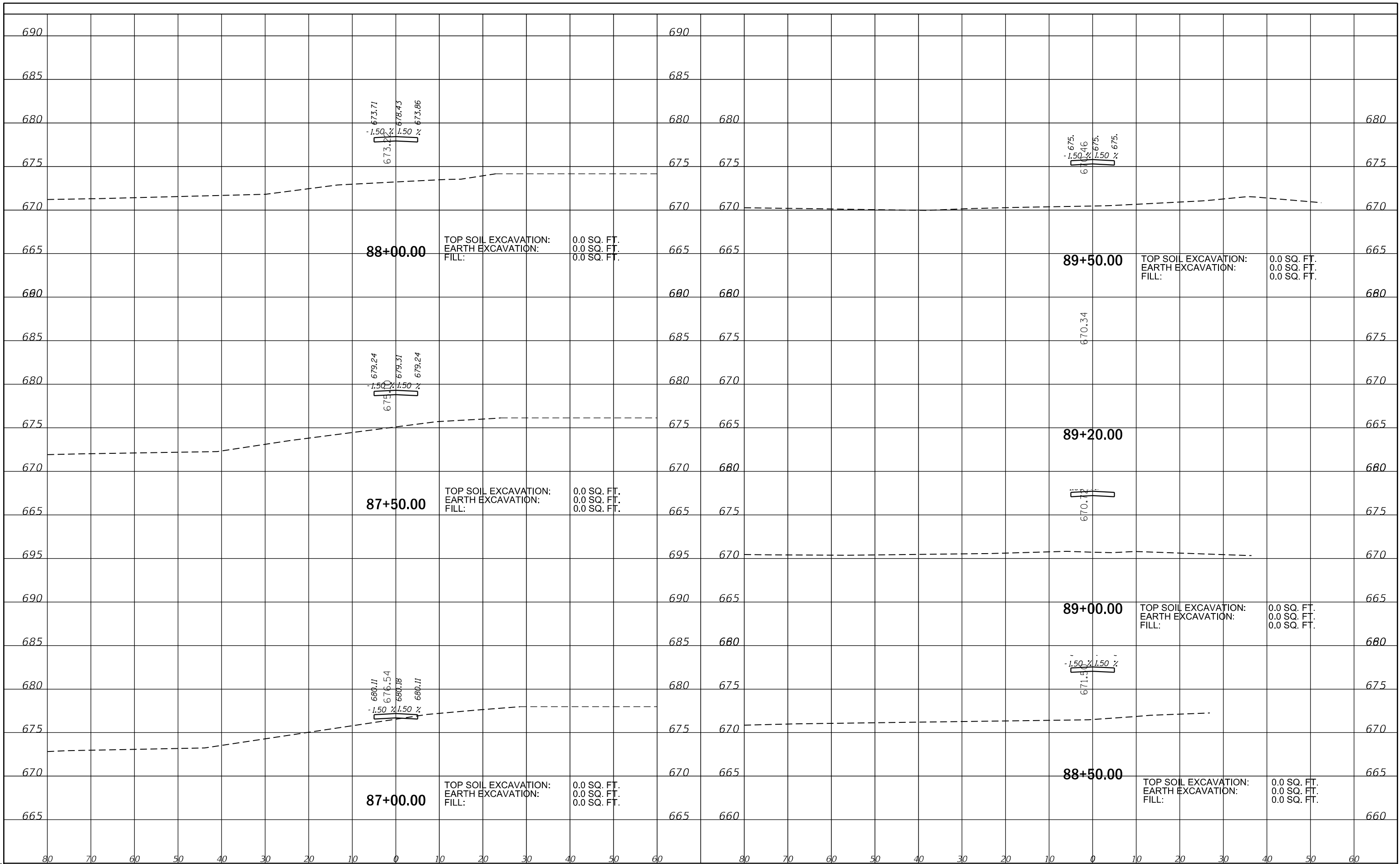
ORIGINAL	SURVEYED	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

MODEL: SHODLMAHES
FILE NAME: FILES



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

ORIGINAL SURVEY			BY		DATE
	SURVEYED				
	PLOTTED				
	TEMPLATE				
	AREAS				
	AREAS CHECKED				
NO					

MODEL: \$MODELNAMES
FILE NAME: \$FILE\$

USER NAME = \$USERS	DESIGNED - MA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - DL	REVISED -
PLOT DATE = \$DATES	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

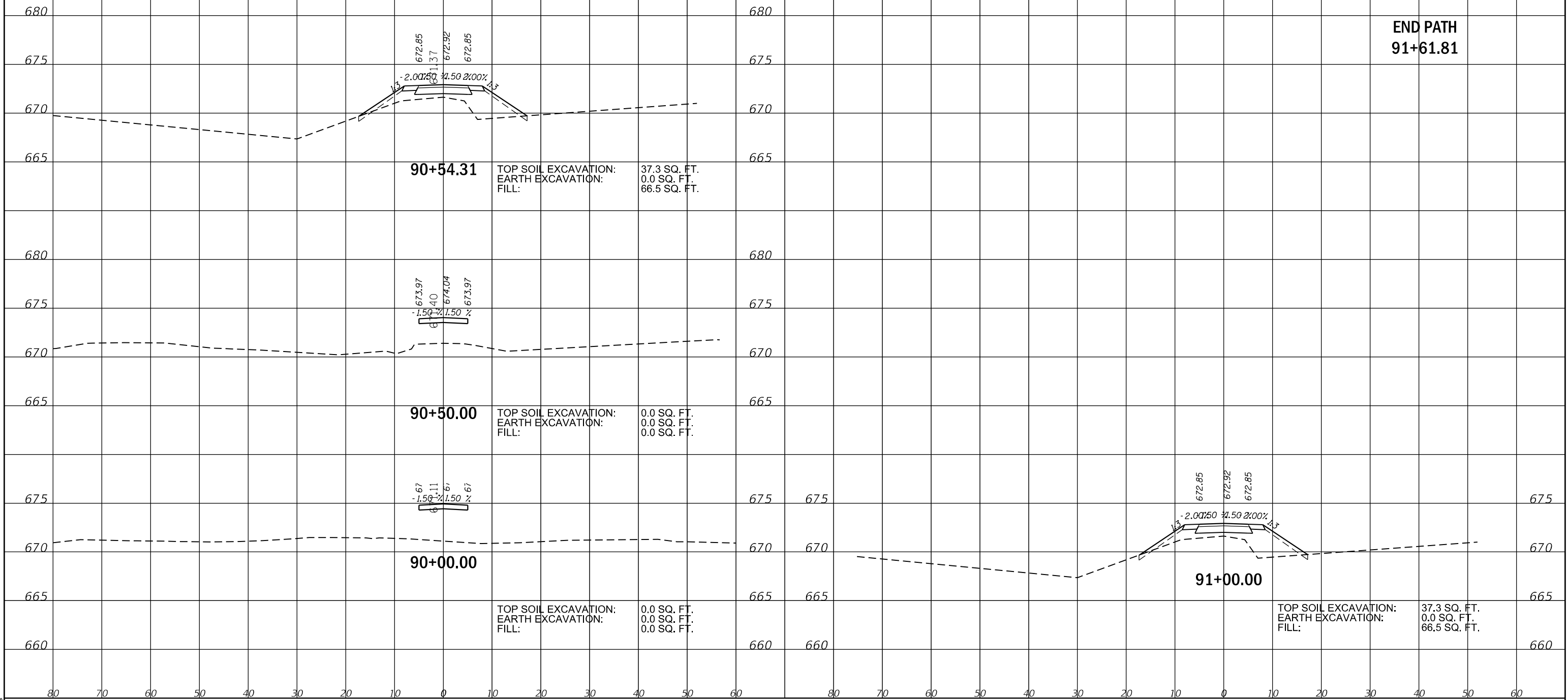
PLUM CREEK TRAIL X-SECTIONS

SCALE:	SHEET	OF	SHEETS	STA. 87+00.00	TO STA. 89+50.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	87
		CONTRACT NO. 61K44		
ILLINOIS		FED. AID PROJECT		

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

ORIGINAL SURVEY			BY		DATE
	SURVEYED				
	PLOTTED				
	TEMPLATE				
	AREAS				
	AREAS CHECKED				
NO					

MODEL: \$MODELNAMES
FILE NAME: \$FILE\$

USER NAME = \$USERS	DESIGNED - MA	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - DL	REVISED -
PLOT DATE = \$DATES	DATE - 12/20/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLUM CREEK TRAIL X-SECTIONS

SCALE:	SHEET	OF	SHEETS	STA. 90+00.00	TO STA. 90+54.31
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-F3000-06-BT	WILL	88	88
		CONTRACT NO. 61K44		
ILLINOIS		FED. AID PROJECT		