

01-16-2026 LETTING ITEM 003

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN CITY OF WAUKEGAN

TRAFFIC DATA

GREENWOOD AVENUE

POSTED SPEED LIMIT = 30 MPH

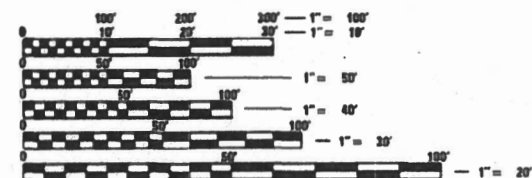
DESIGN SPEED LIMIT = 35 MPH

2022 ADT = 600

2050 ADT = 1,000

DESIGN DESIGNATION

MAJOR COLLECTOR (URBAN)



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.



CONTACT JULIE AT 810R 800-892-0123 WITH THE FOLLOWING:

COUNTY = LAKE

CITY-TOWNSHIP = WAUKEGAN - WAUKEGAN

SEC. & 1/4 SEC. NO. = THE NORTHWEST 1/4 OF FRACTIONAL SECTION 15 TOWNSHIP 45 NORTH, RANGE 12 EAST

48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 61L19

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

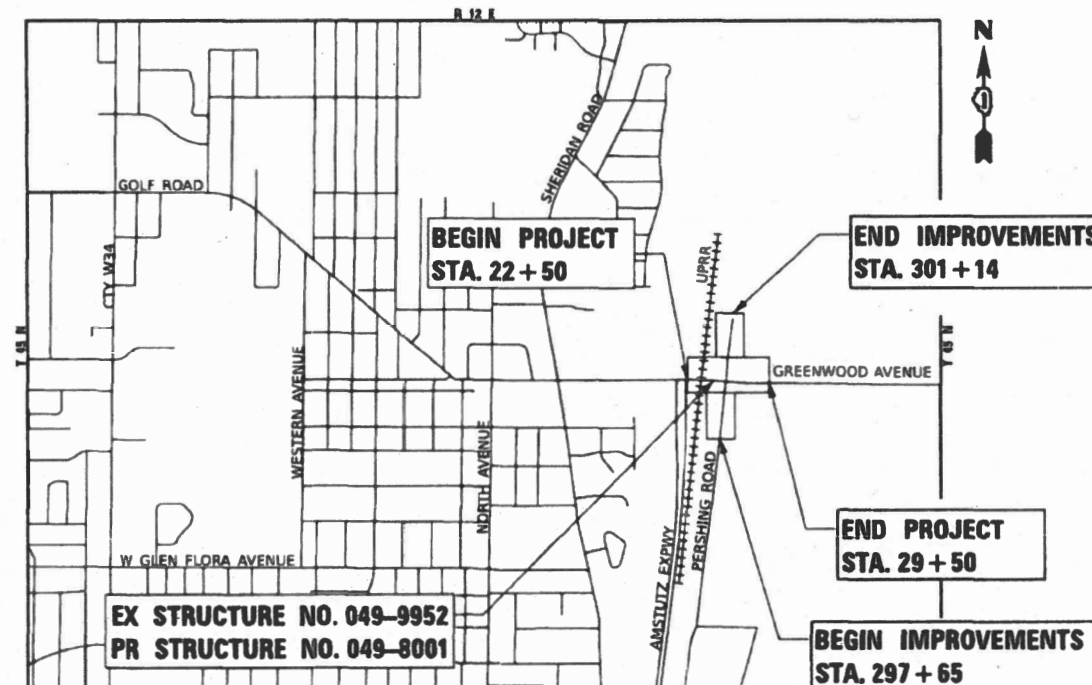
**FAU 3719 (GREENWOOD AVENUE)
OVER UNION PACIFIC RAILROAD
BRIDGE REPLACEMENT**

SECTION: 20-00243-00-BR

PROJECT: 1YBV(176)

LAKE COUNTY

C-91-394-20



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 700 FT. = 0.133 MILE
NET LENGTH = 700 FT. = 0.133 MILE

BAXTER & WOODMAN
Consulting Engineers

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	1
DKB(693)		ILLINOIS CONTRACT NO. 61L19		



LOCATION OF SECTION INDICATED THUS: - - - - -



Dennis T. Hogan
"LICENSE EXPIRES 11-30-2025"



Bruce B. Bule
"LICENSE EXPIRES 11-30-2020"

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	<i>Chris Hancock</i> 4-21-25 CITY OF WAUKEGAN
PASSED	<i>July 16 2025</i> C. Bule DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>July 16 2025</i> REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

B&W PROJECT NO.: 191414

DATE: 5/21/2025

STATE OF ILLINOIS • PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025
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424026-04	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
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GENERAL NOTES

1.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED).
2.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF WAUKEGAN TO HAVE THE LOCATIONS OF EXISTING UTILITIES STAKED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION.
3.

TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS ON ARTERIAL ROADS THE ENGINEER SHALL CONTACT MR. FADI SULTAN, IDOT/ARTERIAL SECTION TRAFFIC FIELD ENGINEER VIA EMAIL AT FADI.SULTAN@ILLINOIS.GOV.
4.

THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND BEST INFORMATION AVAILABLE BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
5.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
6.

POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
7.

THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE ALL ROAD SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION. (SPECIAL). ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING:

A.

SIGNS SHALL NOT BE REMOVED UNTIL NECESSITATED BY THE PROGRESS OF THE WORK.

B.

EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED.

C.

ALL SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.

D.

ALL REMOVED SIGNS SHALL BE RETURNED TO APPROPRIATE GOVERNING BODY AS DIRECTED BY THE ENGINEER.
8.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN.HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
9.

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
10.

ANY AGGREGATE SUBGRADE DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.
11.

SAW CUTS (FULL DEPTH) SHALL BE REQUIRED BETWEEN PAVEMENT, CURB AND GUTTER, MEDIAN, DRIVEWAY PAVEMENT AND BITUMINOUS SURFACE TO BE REMOVED AND THAT TO BE LEFT IN PLACE OR AS DIRECTED BY THE ENGINEER.
12.

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER, ALL POTENTIALLY 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.
13.

THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
14.

THE AGGREGATE GRADATION FOR THE LOWER 9 INCHES OF AGGREGATE SUBGRADE IMPROVEMENT 12" SHALL BE CS 1 OR RR 1.
15.

CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.
16.

PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT. MIDDLE NUMBER IS ZERO.

RAILROAD GENERAL NOTES

1.

WITHIN THESE NOTES, THE UNION PACIFIC RAILROAD SHALL BE REFERRED TO AS THE "RAILROAD"
2.

A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY. THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
3.

NO DISRUPTIONS OF RAILROAD OPERATIONS WILL BE PERMITTED.
4.

ALL WORK WITHIN 25 FEET OF THE NEAREST TRACK WILL REQUIRE A RAILROAD FLAGMAN. TO SCHEDULE A FLAGMAN FOR WORK ON FREIGHT LINES, CALL A MINIMUM OF 72 HOURS IN ADVANCE OF START OF WORK.
5.

RAILROAD UTILITIES ARE NOT INCLUDED UNDER JULIE.
6.

FIBER OPTICS MAY BE PRESENT IN THIS AREA. CALL (800) 336-9193 TO COORDINATE ANY REQUIRED PROTECTION OR RELOCATION, PRIOR TO CONSTRUCTION.
7.

RAILROAD REVIEW AND APPROVAL OF SHORING, DEMOLITION, ERECTION, AND FALSEWORK IS REQUIRED.
8.

ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTIONS TO RAILROAD OPERATIONS. ERECTION OVER THE RAILROAD'S TRACK SHALL BE DEVELOPED SUCH THAT IT ENABLES THE TRACK(S) TO REMAIN OPEN TO TRAIN TRAFFIC PER RAILROAD'S REQUIREMENTS.
9.

MINIMUM CONSTRUCTION CLEARANCE ENVELOPE OF 21 FEET VERTICAL ABOVE THE PLANE OF TOP-OF-RAIL AND 12 FEET HORIZONTAL AT A RIGHT ANGLE FROM THE CENTERLINE OF THE TRACK MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
10.

FALSEWORK CLEARANCE SHALL COMPLY WITH THE RAILROAD'S MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.
11.

FOR RAILROAD COORDINATION, PLEASE REFER TO THE RAILROAD MINIMUM REQUIREMENTS AS PART OF SPECIAL PROVISIONS.
12.

THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SETTLEMENT CONTROL AND HAVE IT APPROVED BY THE RAILROAD.
13.

THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT CHANGE THE QUANTITY AND/OR CHARACTERISTICS OF FLOW IN THE RAILROAD DITCHES AND/OR DRAINAGE STRUCTURES.
14.

THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.

COMMITMENTS

1.

TREES THREE (3) INCHES IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH OF ANY GIVEN YEAR.
2.

EXCLUSIONARY FENCING SHALL BE PLACED AT THE EDGE OF THE R.O.W. TO PROTECT THE POPULATION OF GOLDEN SEDGE IN PROXIMITY TO THE PROJECT AREA.

BAXTER & WOODMAN Consulting Engineers	USER NAME = aericksen	DESIGNED - AE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES				F.A,U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MJO	REVISED -						3719	20-00243-00-BR	LAKE	78	3
	PLOT SCALE = 40,000 ' / in.	CHECKED - DTH	REVISED -		CONTRACT NO. 61L19								
	PLOT DATE = 11/5/2025	DATE - 11/5/2025	REVISED -		SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)
				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
* 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	157	157		
* 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18		
20101000	TEMPORARY FENCE	FOOT	1,561	1,561		
20200100	EARTH EXCAVATION	CU YD	1,695	1,695		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,120	2,120		
20400800	FURNISHED EXCAVATION	CU YD	1,075	1,075		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1,252	1,252		
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1,095	1,095		
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25		
25000320	SEEDING, CLASS 5	ACRE	1.00	1.00		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23		
25100630	EROSION CONTROL BLANKET	SQ YD	4,658	4,658		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	102	102		
28000400	PERIMETER EROSION BARRIER	FOOT	1,610	1,610		
28000510	INLET FILTERS	EACH	3	3		

* INDICATES SPECIALTY ITEM

\$ INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)
				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	4,653	4,653		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	1,252	1,252		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	6,273	6,273		
31200500	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"	SQ YD	247	247		
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	46	46		
35501309	HOT-MIX ASPHALT BASE COURSE, 6 1/4"	SQ YD	5,008	5,008		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	4,508	4,508		
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	632	632		
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	421	421		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	247	247		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	247	247		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,981	1,981		
44000100	PAVEMENT REMOVAL	SQ YD	4,893	4,893		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,167	2,167		
44000600	SIDEWALK REMOVAL	SQ FT	1,622	1,622		
44003100	MEDIAN REMOVAL	SQ FT	3,804	3,804		

* INDICATES SPECIALTY ITEM

\$ INDICATES CONSTRUCTION CODE 0042 TRAINEES



USER NAME	=	morrig
PLOT SCALE	=	40,000 ' / in.
PLOT DATE	=	7/23/2025

DESIGNED	-	AE
DRAWN	-	MJO
CHECKED	-	DTH
DATE	-	7/23/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S.	SHEET 1 OF 4 SHEETS	STA. TO STA.
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	4
CONTRACT NO. 61L19				
		ILLINOIS	FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)
				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
				81		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	81			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50104650	SLOPE WALL REMOVAL	SQ YD	1,108		1,108	
50157300	PROTECTIVE SHIELD	SQ YD	683		683	
50200100	STRUCTURE EXCAVATION	CU YD	5,548		5,548	
50300225	CONCRETE STRUCTURES	CU YD	250.5		250.5	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	502.1		502.1	
50300260	BRIDGE DECK GROOVING	SQ YD	1,114		1,114	
50300300	PROTECTIVE COAT	SQ YD	1,748		1,748	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	231.5		231.5	
50401320	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL45	FOOT	1,491		1,491	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	203,800		203,800	
51200963	FURNISHING METAL SHELL PILES 16" X 0.375"	FOOT	780		780	
51202305	DRIVING PILES	FOOT	780		780	
51203200	TEST PILE METAL SHELLS	EACH	2		2	
51204650	PILE SHOES	EACH	13		13	

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				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
					1	
51500100	NAME PLATES	EACH	1			
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	13		13	
52100520	ANCHOR BOLTS, 1"	EACH	26		26	
52200500	MECHANICALLY STABILIZATION EARTH RETAINING WALL	SQ FT	7,884		7,884	
55100500	STORM SEWER REMOVAL 12"	FOOT	24	24		
60254100	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	3	3		
60500050	REMOVING CATCH BASINS	EACH	1	1		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,219	1,219		
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	368	368		
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	466	466		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	650.0	650.0		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	6	6		
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3	3		
63200310	GUARDRAIL REMOVAL	FOOT	1,067	1,067		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	9,165	9,165		

* INDICATES SPECIALTY ITEM

\$ INDICATES CONSTRUCTION CODE 0042 TRAINEES



USER NAME =	mornig	DESIGNED -	AE
DRAWN -	MJO	REVISED -	
PLOT SCALE =	40,000 ' / in.	CHECKED -	DTH
PLOT DATE =	7/23/2025	DATE -	7/23/2025

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61L19				
		ILLINOIS	FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)
				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
* 66901006	REGULATED SUBSTANCES MONITORING	DAYS	30	30		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	15	15		
67100100	MOBILIZATION	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	150		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	178	178		
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	440	440		
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	16	16		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	51	51		
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	8		
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	56	56		
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	4	4		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	52	52		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,970	2,970		

* INDICATES SPECIALTY ITEM
\$ INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)
				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	165	165		
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	450	450		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	782	782		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	73	73		
* 78008300	POLYUREA PAVEMENT MARKING TYPE II - LETTERS AND SYMBOLS	SQ FT	58	58		
* 78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	762	762		
* 78008330	POLYUREA PAVEMENT MARKING TYPE II - LINE 6"	FOOT	180	180		
* 78008340	POLYUREA PAVEMENT MARKING TYPE II - LINE 8"	FOOT	22	22		
* 78008350	POLYUREA PAVEMENT MARKING TYPE II - LINE 12"	FOOT	74	74		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6	6		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	28	28		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6		
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1			1
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1			1
* 81028190	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	500			500
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	100			100

* INDICATES SPECIALTY ITEM
\$ INDICATES CONSTRUCTION CODE 0042 TRAINEES



USER NAME	=	morrig
DESIGNED	-	AE
DRAWN	-	MJO
CHECKED	-	DTH
DATE	-	7/23/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	6
		CONTRACT NO. 61L19		
ILLINOIS		FED. AID PROJECT		

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001211 - EXPIRES 4/30/2025
morning 7/23/2025 3:48:52 PM
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)
				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
* 81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	110			110
* 81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	280			280
* 81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	1			1
* 81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,320			1,320
* 81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	1,300			1,300
* 82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2			2
* 82110027	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E	EACH	4			4
* 82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	1			1
* 83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	2			2
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	20			20
* X2010400	STUMP REMOVAL ONLY	UNIT	186	186		
X2010510	CLEARING AND GRUBBING	L SUM	1	1		
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100			100
X5080530	BAR TERMINATORS	EACH	608		608	
* X5091755	PARAPET RAILING (SPECIAL)	FOOT	291		291	
X6028000	MANHOLES TO BE RECONSTRUCTED (SPECIAL)	EACH	1	1		

* INDICATES SPECIALTY ITEM

\$ INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)	80% FED 20% LOCAL (LBFP OFF-SYS)
				ROADWAY 0004	BRIDGE 0010	LIGHTING 0021
				URBAN	URBAN	URBAN
X6050188	PLUG PIPE PENETRATION	EACH	1	1		
* X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	175.0	175.0		
X6431120	REMOVE IMPACT ATTENUATOR SAND MODULE	EACH	2	2		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
X7040650	REMOVE TEMPORARY CONCRETE BARRIER	FOOT	401	401		
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	75			75
* X8900106	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2		
Z0004552	APPROACH SLAB REMOVAL	SQ YD	392		392	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
Z0043900	PREFORMED JOINT FILLER	FOOT	98		98	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		
\$ Z0076600	TRAINEES	HOOR	1,000	1,000		
\$ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	1,000	1,000		

* INDICATES SPECIALTY ITEM

\$ INDICATES CONSTRUCTION CODE 0042 TRAINEES



USER NAME =	morrig	DESIGNED -	AE	REVISED -	
DRAWN -	MJO	REVISED -			
PLOT SCALE =	40.000' / in.	CHECKED -	DTH	REVISED -	
PLOT DATE =	7/23/2025	DATE -	7/23/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	7
		CONTRACT NO. 61L19		
ILLINOIS		FED. AID PROJECT		

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025
morning 7/23/2025 3:48:36 PM
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USER NAME	=	morrig
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PLOT SCALE	=	40,000 ' / in.
CHECKED	-	DTH
PLOT DATE	=	7/23/2025
DATE	-	7/23/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	8
CONTRACT NO. 61L19				
		ILLINOIS	FED. AID PROJECT	

EARTHWORK SUMMARY

LOCATION	1 UNDERCUT AND AGG SUBGRADE IMPROVEMENT CU YD	2 TOPSOIL EXCAVATION CU YD	3 TOPSOIL PLACEMENT CU YD	4 UNSUITABLE EXCAVATION (TOPSOIL) CU YD	5 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL CU YD	6 EARTH EXCAVATION CU YD	7 EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) CU YD	8 EMBANKMENT CU YD	9 EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
GREENWOOD AVE	110	370	320	370	1,715	1,345	0	1,035	-1,035
PERSHING RD	30	55	50	55	405	350	0	40	-40
TOTALS	140	425	370	425	2,120	1,695	0	1,075	-1,075

EARTHWORK SUMMARY

				TOTAL	
		(20200100) EARTH EXCAVATION		1,695	CU YD
		(20201200) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		2,120	CU YD
		(21101625) TOPSOIL FURNISH AND PLACE, 6"		370	CU YD
		(30300001) AGGREGATE SUBGRADE IMPROVEMENT		140	CU YD
COLUMN 1	=	CONTINGENT QUANTITY - 25% PERCENT OF PROPOSED PAVEMENT AREA AT 1' DEPTH			
COLUMN 2	=	EX TOPSOIL 6" DEPTH, FROM CROSS SECTION END AREAS			
COLUMN 3	=	PR TOPSOIL 6" DEPTH, FROM CROSS SECTION END AREAS			
COLUMN 4	=	EX TOPSOIL UNSUITABLE FOR RE-USE			
COLUMN 5	=	COLUMN 4 + COLUMN 6			
COLUMN 6	=	FROM CROSS SECTION END AREAS			
COLUMN 7	=	DUE TO SOIL CONTAMINATION, NO EXCAVATION CAN BE USED IN EMBANKMENT			
COLUMN 8	=	FROM CROSS SECTION END AREAS			
COLUMN 9	=	COLUMN 7 - COLUMN 8			

EARTHWORK SCHEDULE

STA.	TO STA	20200100	20201200	20400800	21101615
		EARTH EXCAVATION CU YD	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL CU YD	FURNISHED EXCAVATION CU YD	TOPSOIL FURNISH AND PLACE, 6" SQ YD
22+50	23+00	0	0	0	19
23+00	23+40	175	15	0	17
23+40	23+50	160	15	0	4
23+50	24+00	40	5	0	90
24+00	24+20	175	40	54	67
24+20	24+50	50	30	69	109
24+50	25+00	50	40	183	96
25+00	25+50	25	30	186	0
25+50	26+00	0	0	0	0
26+00	26+50	0	0	0	89
26+50	27+00	0	40	238	89
27+00	27+50	175	40	238	69
27+50	28+00	220	30	12	108
28+00	28+50	65	40	29	64
28+50	29+00	55	20	20	70
29+00	29+50	80	15	4	61
29+50	29+50	75	10	3	0
297+65	298+00	0	0	0	0
298+00	298+50	50	0	0	0
298+50	299+00	85	0	0	54
299+00	299+50	85	20	18	54
299+50	300+00	40	20	18	0
300+00	300+50	0	0	0	0
300+50	301+00	0	0	0	14
301+00	301+14	50	5	2	22
301+14	301+14	40	10	1	0
SEE 20200100 EARTH EXCAVATION		0	1,695	0	0
TOTALS		1,695	2,120	1,075	1,095

PAVEMENT MARKING SCHEDULES														
				78000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS SQ FT	78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"	78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"	78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"	78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	78008300 POLYUREA PAVEMENT MARKING TYPE II - LETTERS AND SYMBOLS SQ FT	78008310 POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	78008330 POLYUREA PAVEMENT MARKING TYPE II - LINE 6"	78008340 POLYUREA PAVEMENT MARKING TYPE II - LINE 8"	78008350 POLYUREA PAVEMENT MARKING TYPE II - LINE 12"
STA.	TO STA.	OFFSET	DESCRIPTION		FOOT	FOOT	FOOT	FOOT	FOOT		FOOT	FOOT	FOOT	FOOT
22+50	23+12	RT	DOUBLE YELLOW		123									
22+50	24+51	RT	DOUBLE YELLOW		402									
22+50	24+55	LT	SOLID WHITE		205									
22+50	23+15	LT	SOLID WHITE			65								
22+50	23+03	RT	SOLID WHITE			53								
22+55	22+59	RT	SOLID YELLOW					6						
22+62	22+72	LT	SOLID WHITE					14						
23+03	24+38	RT	WHITE SKIP-DASH		34									
23+12	24+33	RT	DOUBLE YELLOW		243									
23+15	24+33	LT	WHITE SKIP DASH			30								
23+30	23+35	LT	SOLID YELLOW					8						
23+36	23+45	LT	SOLID WHITE					13						
24+00	24+12	LT	SOLID YELLOW					18						
24+09	24+18	LT	SOLID WHITE					14						
24+33	24+53	LT	DOUBLE YELLOW		40									
24+38	24+50	RT	SOLID WHITE			11								
24+50	26+31	RT	SOLID WHITE									180		
24+50		RT	O N L Y							21				
24+51	26+42	RT	SOLID YELLOW								381			
24+53	26+27	L T/RT	SOLID YELLOW											73
24+53	26+28	LT	SOLID YELLOW								381			
24+78		RT	RT TURN ARROW							16				
26+22		RT	O N L Y							21				
26+26	26+30	RT	SOLID WHITE			5								
26+27	26+90	RT	DOUBLE YELLOW		99									
26+28	26+90	LT	DOUBLE YELLOW		99									
26+29	28+24	LT	SOLID WHITE		177									
26+30	26+97	RT	SOLID WHITE					129						
26+30	26+41	RT	SOLID WHITE										11	
26+31	26+41	RT	SOLID WHITE										11	
26+36	27+69	LT	12" WHITE DIAGONAL					337						
26+41	26+97	RT	SOLID WHITE				90							
26+41	26+99	RT	SOLID WHITE				58							
26+48		RT	RT TURN ARROW	16										
26+60		RT	STOP BAR											
26+89		RT	STOP BAR								14			
27+17		RT	STOP BAR								16			
27+29	27+96	RT	SOLID WHITE								13			
27+29	27+96	RT	SOLID WHITE				91							
27+31	27+96	RT	SOLID WHITE											
27+31	27+96	RT	SOLID WHITE				65							
27+34		RT	O N L Y	21										
27+49		RT	RT TURN ARROW	16										
27+51	29+50	LT	DOUBLE YELLOW		402									
27+51	29+50	LT	DOUBLE YELLOW		403									
27+52		LT	STOP BAR											
27+53		RT	STOP BAR								15			
27+78	27+89	LT	SOLID YELLOW								16			
28+08	28+20	LT	SOLID YELLOW								17			
28+43	28+53	LT	SOLID YELLOW								15			
28+78	28+86	LT	SOLID YELLOW								12			
29+13	29+17	LT	SOLID YELLOW								6			
297+65	299+57	RT	DOUBLE YELLOW		386									
297+80	299+57	RT	DOUBLE YELLOW		356									
298+14	298+17	LT	SOLID YELLOW								4			
298+40	298+45	LT	SOLID YELLOW								8			
298+68	298+73	LT	SOLID YELLOW								8			
298+96	299+01	LT	SOLID YELLOW								7			
299+24	299+29	LT	SOLID YELLOW								6			
299+25	299+82	RT	SOLID WHITE								57			
299+27	299+81	LT	SOLID WHITE								54			
300+24	300+59	RT	SOLID WHITE								35			
TOTALS				52	2,970	165	450	782	73	58	762	180	22	74

SCHEDULE OF DRAINAGE ITEMS							
			55100500 STORM SEWER REMOVAL 12"	60254100 CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 11 FRAME AND GRATE EACH	60500050 REMOVING CATCH BASINS EACH	X0326744 PLUG PIPE PENETRATION EACH	X8028000 MANHOLES TO BE RECONSTRUCTED (SPECIAL) EACH
STA.	TO STA.	OFFSET	FOOT				
27+49							1
28+30		LT		1			
28+30		RT		1			
298+61		LT			1		
298+61	298+76	LT	23				
298+76		LT		1			
298+76		LT				1	
TOTALS			24	3	1	1	1

SIGNING SCHEDULE							
				72000100 SIGN PANEL - TYPE 1 SQ FT	72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A EACH	72800100 TELESCOPING STEEL SIGN SUPPORT FOOT	73100100 BASE FOR TELESCOPING STEEL SIGN SUPPORT EACH
STA.	OFFSET	DESIGNATION	DESCRIPTION				
26+92	29.1 RT	R1-1	Stop	9	1	14	1
26+92	36.5 RT	D3-1	Greenwood 1	3	2		
26+92	36.5 RT	D3-1	Greenwood 2	3			
26+92	36.5 RT	D3-1	Pershing 1	3	2		
26+92	36.5 RT	D3-1	Pershing 2	3			
27+40	31.3 LT	R1-1	Stop	9	1	14	1
27+42	36.5 RT	R1-1	Stop	9	1	14	1
29+31	24.2 RT	W14-2	No Outlet	9	1	14	1
26+92	29.1 RT	R1-3P	All way	1			
27+40	31.3 LT	R1-3P	All way	1			
27+42	36.5 RT	R1-3P	All way	1			
TOTALS				51	8	56	4

TREE REMOVAL SCHEDULE						
			20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER) UNIT	20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER) UNIT	X2010400 STUMP REMOVAL ONLY UNIT	
STA.	OFFSET	LT/RT				
23+63	86	RT	6			
24+10	62	LT	6			
24+11	70	LT	6			
24+26	117	RT	12			
24+26	117	RT	6			
24+33	59	LT	10			
24+33	59	LT	6			
24+44	122	RT	12			
24+44	122	RT	12			
24+44	122	RT	12			
24+44	122	RT	12	18		
24+59	98	RT	6			
24+59	98	RT	6			
24+69	100	RT	12			
24+69	100	RT	10			
24+69	100	RT	6			
25+93	65	RT			6	
25+93	65	RT			6	
25+93	65	RT			6	
25+93	65	RT			6	
26+09	61	RT			12	
26+20	93	RT			11	
26+20	93	RT			9	
26+20	93	RT			6	
26+26	63	RT			9	
26+26	63	RT			8	
26+26	63	RT			6	
26+32	95	RT			8	
26+35	63	RT			9	
26+37	57	RT			8	
26+41	59	RT			6	
26+44	48	RT			8	
298+72	34	LT			10	
298+78	31	LT			11	
298+78	31	LT			11	
298+89	62	LT			8	
298+89	62	LT			8	
299+01	34	RT	8			
299+06	35	LT			14	
299+48	55	RT	12			
299+48	55	RT	9			
TOTALS			157	18	186	

CURB AND GUTTER & SIDEWALK SCHEDULE				
			42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH SQ FT	60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 FOOT
STA.	TO STA.	OFFSET		
22+50	24+48	RT	1981	
22+50	24+48	RT		198
22+50	24+56	LT		206
26+24	298+53	RT		148
26+29	301+14	LT		112
298+61	29+50	RT		288
301+14	29+50	LT		267
TOTALS			1,981	1,219

LANDSCAPING SCHEDULE					
			25000210 SEEDING, CLASS 2A ACRE	25000320 SEEDING, CLASS 5 ACRE	25100630 EROSION CONTROL BLANKET SQ YD
STA.	TO STA.	OFFSET			
22+50	24+11	LT		0.06	293
22+50	23+31	RT		0.03	159
23+47	23+91	RT		0.06	290
23+91	24+85	RT		0.19	924
24+31	24+95	LT		0.04	210
25+86	26+79	RT		0.13	645
25+92	26+64	LT		0.05	234
26+26	26+90	LT	0.02		97
26+67	26+85	LT		0.03	159
26+23	26+79	RT	0.04		210
26+70	26+81	RT		0.01	61
27+31	29+50	RT	0.06		285
27+36	28+95	RT		0.10	494
27+38	29+50	LT	0.04		193
27+45	28+54	LT		0.08	359
28+95	29+50	RT		0.01	37
TOTALS			0.25	1.00	4,658

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025
morning 7/23/2025 3:49:02 PM
MODEL Default
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USER NAME	=	morrig	DESIGNED	-	AE	REVISED	-
			DRAWN	-	MJO	REVISED	-
PLOT SCALE	=	40,000 ' / in.	CHECKED	-	DTH	REVISED	-
PLOT DATE	=	7/23/2025	DATE	-	7/23/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	10
CONTRACT NO. 61L19				
ILLINOIS		FED. AID PROJECT		

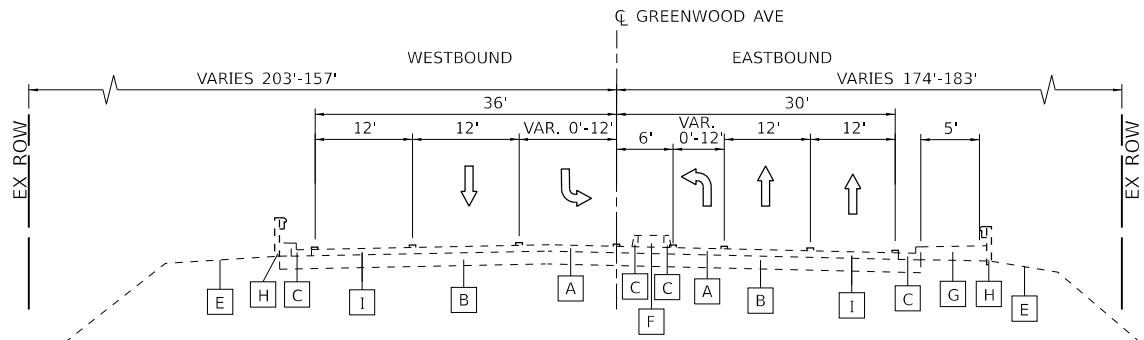
PAVEMENT AND MEDIAN SCHEDULE									
		30300112 AGGREGATE SUBGRADE IMPROVEMENT 12" SQ YD	35501314 HOT-MIX ASPHALT BASE COURSE, 7 1/2" SQ YD	40603080 HOT-MIX ASPHALT BINDER COURSE, IL- 19.0, N50 TON	40604060 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 TON	42000080 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB SQ YD	48101500 AGGREGATE SHOULDERS, TYPE B 6" SQ YD	60618300 CONCRETE MEDIAN SURFACE, 4 INCH SQ FT	60619600 CONCRETE MEDIAN, TYPE SB-6.12 SQ FT
STA.	TO STA.								
22+50	23+26	294	264	33	22				
22+50	24+33	795	724	91	61				
22+50	22+52	2							
23+26	24+33	399	358	45	30				
24+33	24+52	139				139		122	156
24+52	24+66	268							
25+91	26+27	273							
26+27	26+42	108				108		91	136
26+42	27+14	518	509	64	43				
26+42	27+14	608	598	75	50				
26+75	26+97	35							
27+14	28+00	645	634	80	53				
27+14	28+00	588	575	72	48				
27+31	27+51	30						6	8
27+34	27+53	25						148	166
28+00	29+50	490	408	51	34				
28+00	29+50	398		43	28				
297+65	298+52	201	191	24	16				
297+65	298+52	186	176	22	15				
297+65	298+53						39		
297+65	298+61						41		
298+52	299+00	143	124	16	10				
298+52	299+00	127	108	14	9				
TOTALS		6,273	5,008	632	421	247	81	368	466

EROSION CONTROL SCHEDULE						
		28000250 TEMPORARY EROSION CONTROL SEEDING POUND	28000400 PERIMETER EROSION BARRIER FOOT	28000510 INLET FILTERS EACH	28001100 TEMPORARY EROSION CONTROL BLANKET SQ YD	20101000 TEMPORARY FENCE FOOT
STA.	TO STA.					
22+45	23+31					97
22+45	24+11					216
22+50	23+31	4			158	
22+50	24+11	7			293	
22+50	23+31		89			
22+50	22+11		205			
23+44	24+75					161
23+46	24+49	19			887	
23+46	24+85		245			
24+31	24+94		80			
24+31	24+95					75
24+33	24+94	5			212	
24+49	24+85	7			323	
25+83	26+87					208
25+84	26+88	15			708	
25+86	26+88		240			
25+92	26+92	11			490	
25+92	26+90		136			
25+93	26+92					129
25+86	26+86	5			210	
27+31	29+50	17			811	
27+36	29+55					372
27+36	29+50		360			
27+38	29+55					303
27+40	29+50	12			561	
27+45	29+52		254			
28+29				1		
28+31				1		
298+76				1		
TOTALS		102	1,610	3	4,653	1,561

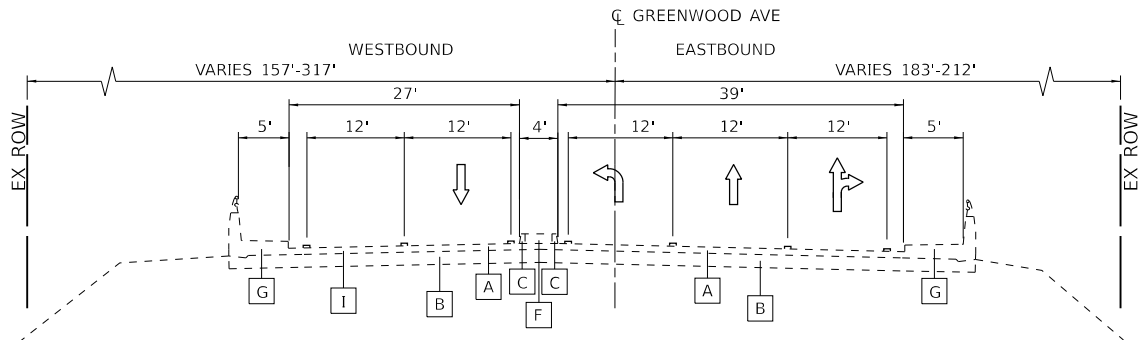
GUARDRAIL SCHEDULE								
		63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS FOOT	63100045 TRAFFIC BARRIER TERMINAL, TYPE 2 EACH	63100070 TRAFFIC BARRIER TERMINAL, TYPE 5 EACH	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6 EACH	63200310 GUARDRAIL REMOVAL FOOT	78200305 GUARDRAIL REFLECTORS, TYPE A EACH	X6330725 STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) FOOT
STA.	TO STA.							
22+50	24+25					187.5	4	
22+54	24+10							
22+54	23+79	125.0						
22+64	23+01	37.5						
22+64	23+30					86.0		
22+70	23+24						4	
23+01	23+30							37.5
23+30	23+30		1					
23+36	24+62						4	
23+47	24+47					160.0		
23+48	23+74							37.5
23+74	24+24	50.0						
23+79	24+09							50.0
24+09	24+10		1					
24+24	24+62				1			
24+33	24+33		1					
24+33	24+57							50.0
24+33	24+71						4	
24+33	24+57					61.0		
24+57	24+71			1				
26+09	298+32				1		4	
26+09	26+46							
26+14	301+19						4	
26+14	26+48				1			
26+34	26+81					90.0		
26+38	26+84					90.0		
26+46	298+44	112.5						
27+37	28+38					225.0		
27+45	28+32					167.5		
28+83	28+95		1					
298+02	28+43	262.5						
298+02	28+94						4	
298+32	298+44		1					
300+36	300+72	62.5						
300+72	300+84		1					
TOTALS		650.0	6	1	3	1,067.0	28	175.0

SCHEDULE OF REMOVALS						
			44000100 PAVEMENT REMOVAL SQ YD	44000500 COMBINATION CURB AND GUTTER REMOVAL FOOT	44000600 SIDEWALK REMOVAL SQ FT	44003100 MEDIAN REMOVAL SQ FT
STA.	TO STA.	OFFSET				
22+50	23+12	RT	174			
22+50	23+12	LT	254			
23+12	24+64	RT	520			
23+12	24+36	LT	436			
24+36	24+65	LT	83			
26+23	28+29	RT	733			
26+27	28+27	LT	524			
26+67	26+82	LT		32		
28+27	29+50	LT	222			
28+29	29+50	RT	248			
297+65	298+53	RT	181			
297+65	298+53	LT	149			
298+53	299+70	RT	399			
298+53	299+70	LT	368			
300+34	301+14	RT	302			
300+34	301+14	LT	298			
22+50	24+66	LT		217		
22+50	24+60	RT		210		
22+50	24+60	RT			1427	
22+50	24+67					891
26+19	26+60	RT			195	
26+23	26+82	RT		156		
26+25	26+82					214
26+26	26+93	LT		111		
26+76	26+90	RT		54		
26+76	26+92					82
26+76	26+90					135
26+77	26+92	LT		43		
27+31	29+50	RT		307		
27+36	27+48	RT		36		
27+36	27+48					61
27+37	27+45	LT		38		
27+37	27+45					67
27+38	29+49	LT		266		
27+42	28+79	LT/RT		281		
27+43	29+44					1649
297+65	299+65					528
298+31	299+66	LT/RT		275		
300+44	301+14	LT/RT		142		
300+45	301+14					175
TOTALS			4,893	2,167	1,622	3,804

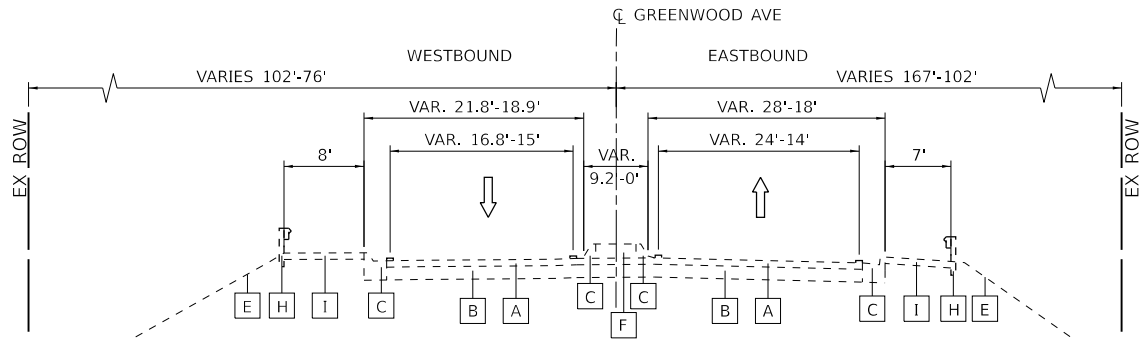
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EXISTING TYPICAL SECTION
STA 22+50 TO STA 24+51



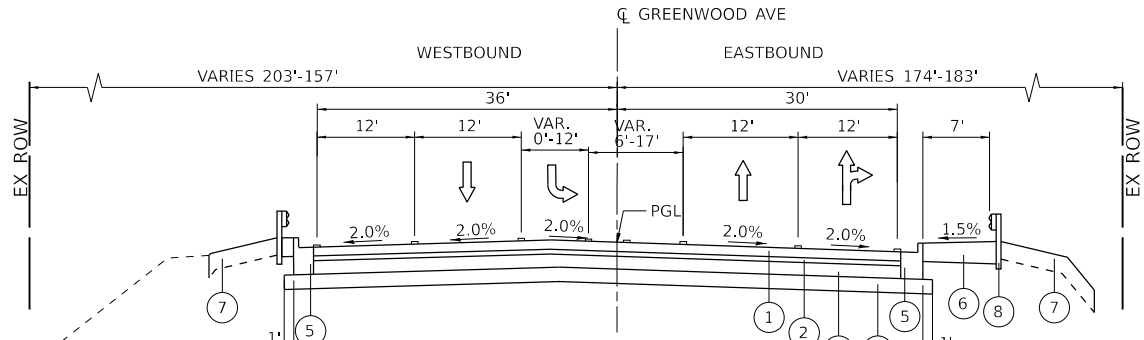
EXISTING TYPICAL SECTION
STA 24+51 TO STA 24+80
BRIDGE OMISSION
STA 25+98 TO STA 26+27



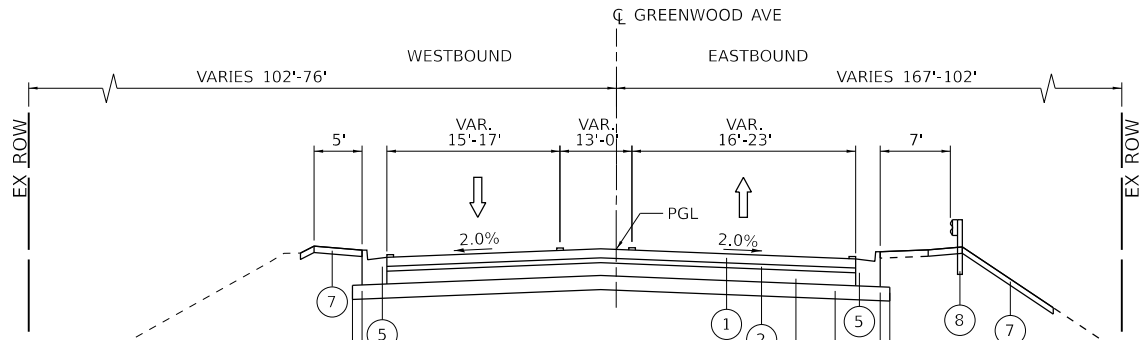
EXISTING TYPICAL SECTION
STA 28+20 TO STA 29+50

EXISTING LEGEND

- | | | | |
|---|--|---|----------------|
| A | HMA PAVEMENT (VARIES 9" TO 12") | G | SIDEWALK |
| B | AGGREGATE SUBBASE | H | GUARDRAIL |
| C | COMBINATION CONCRETE CURB AND GUTTER, B-6.24 | I | EARTH SHOULDER |
| D | AGGREGATE SHOULDER | | |
| E | EXISTING GROUND | | |
| F | CONCRETE MEDIAN | | |



PROPOSED TYPICAL SECTION
STA 22+50 TO STA 24+41
BRIDGE LOCATION
STA 24+41 TO STA 26+46
SEE STRUCTURAL PLANS
INTERSECTION LOCATION
STA 26+46 TO STA 28+20



PROPOSED TYPICAL SECTION
STA 28+20 TO STA 29+50

PROPOSED LEGEND

- | | | | |
|---|--|---|---|
| 1 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1-1/2" | 6 | PCC SIDEWALK, 5" |
| 2 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4" | 7 | TOPSOIL FURNISH AND PLACE, 6", AND SEEDING (SEE LANDSCAPING PLAN) |
| 3 | HOT-MIX ASPHALT BASE COURSE, 6-1/4" | 8 | STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS |
| 4 | AGGREGATE SUBGRADE IMPROVEMENT, 12" | | |
| 5 | COMBINATION CONCRETE CURB AND GUTTER, B-6.24 | | |

AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS 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.

BAXTER & WOODMAN
Consulting Engineers

USER NAME = mornig	DESIGNED - AE	REVISED -
DRAWN - MJO	REVISED -	
PLOT SCALE = 40,000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 7/23/2025	DATE - 7/23/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

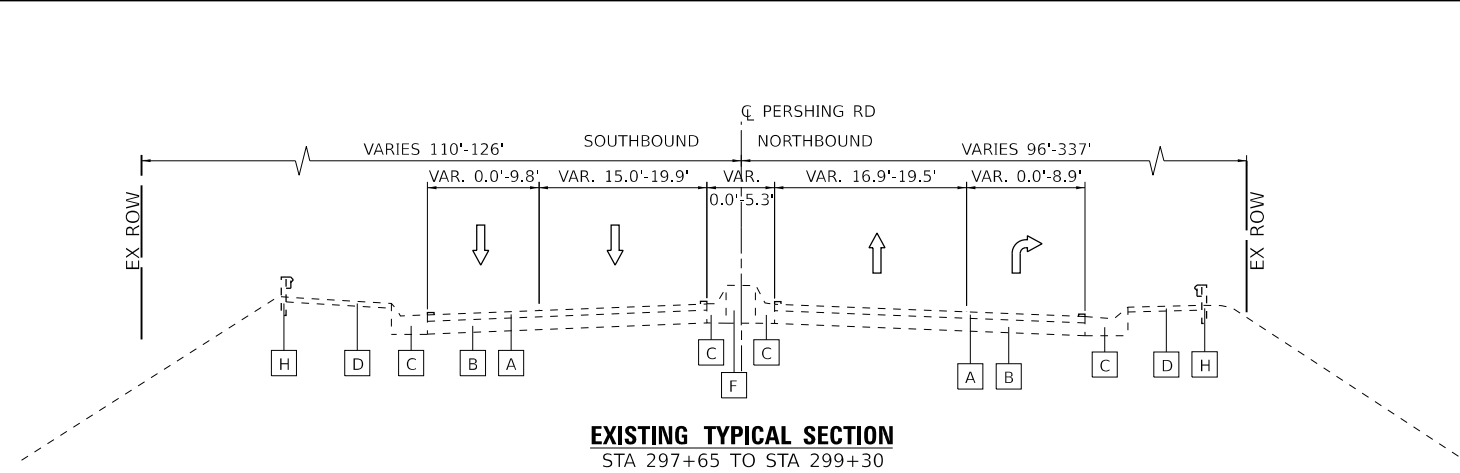
TYPICAL SECTIONS
GREENWOOD AVENUE

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	11
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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EXISTING LEGEND

- A

HMA PAVEMENT (VARIES 9" TO 12")
- B

AGGREGATE SUBBASE
- C

COMBINATION CONCRETE CURB AND GUTTER
- D

AGGREGATE SHOULDER
- E

EXISTING GROUND
- F

CONCRETE MEDIAN
- G

SIDEWALK
- H

GUARDRAIL
- I

EARTH SHOULDER

PROPOSED LEGEND

- 1

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1-1/2"
- 2

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"
- 3

HOT-MIX ASPHALT BASE COURSE, 6-1/4"
- 4

AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 5

COMBINATION CONCRETE CURB AND GUTTER, B-6.24
- 6

PCC SIDEWALK, 5"
- 7

TOPSOIL FURNISH AND PLACE, 6", AND SEEDING (SEE LANDSCAPING PLAN)
- 8

STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS
- 9

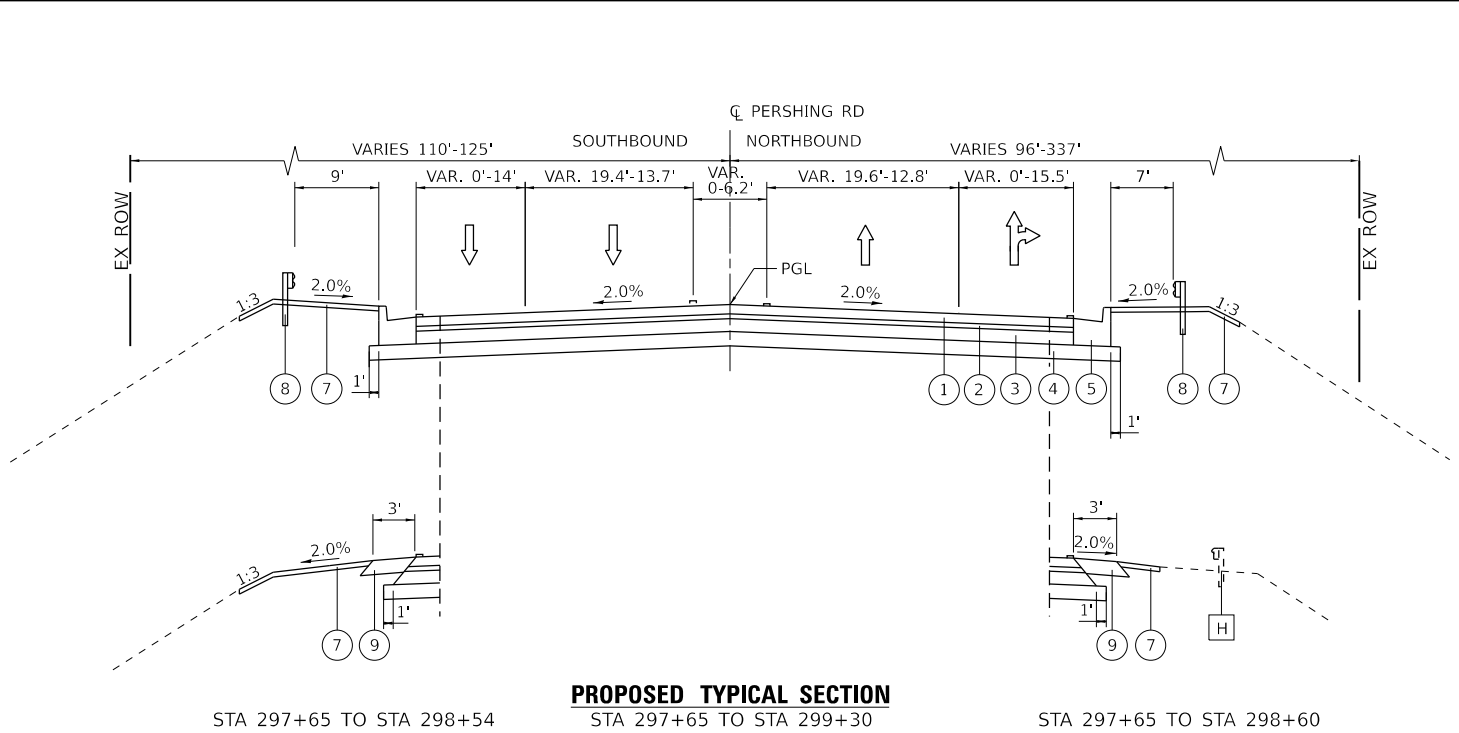
AGGREGATE SHOULDER, TYPE B 6"

AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS 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.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RECONSTRUCTION - GREENWOOD AVENUE AND PERSHING ROAD		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1-1/2"	4% @ 50 GYR.	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"	4% @ 50 GYR.	LR 1030-2
HOT-MIX ASPHALT BASE COURSE, 6-1/4" (HMA BINDER IL-19.0)	4% @ 50 GYR.	LR 1030-2
STABILIZED SUBBASE - HOT-MIX ASPHALT, 4" (HMA BINDER IL-19.0)	3% @ 50 GYR.	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

- NOTES:
- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD.
 - THE AC TYPE FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATION.



PROPOSED TYPICAL SECTION

STA 297+65 TO STA 299+30

STA 297+65 TO STA 298+60

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		DRAWN -	MJO	REVISED -	
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PLOT DATE =	7/23/2025	DATE -	7/23/2025	REVISED -	

SCALE: N.T.S.		SHEET 2 OF 2 SHEETS	STA.	TO STA.
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	12
				CONTRACT NO. 61L19
		ILLINOIS	FED. AID PROJECT	

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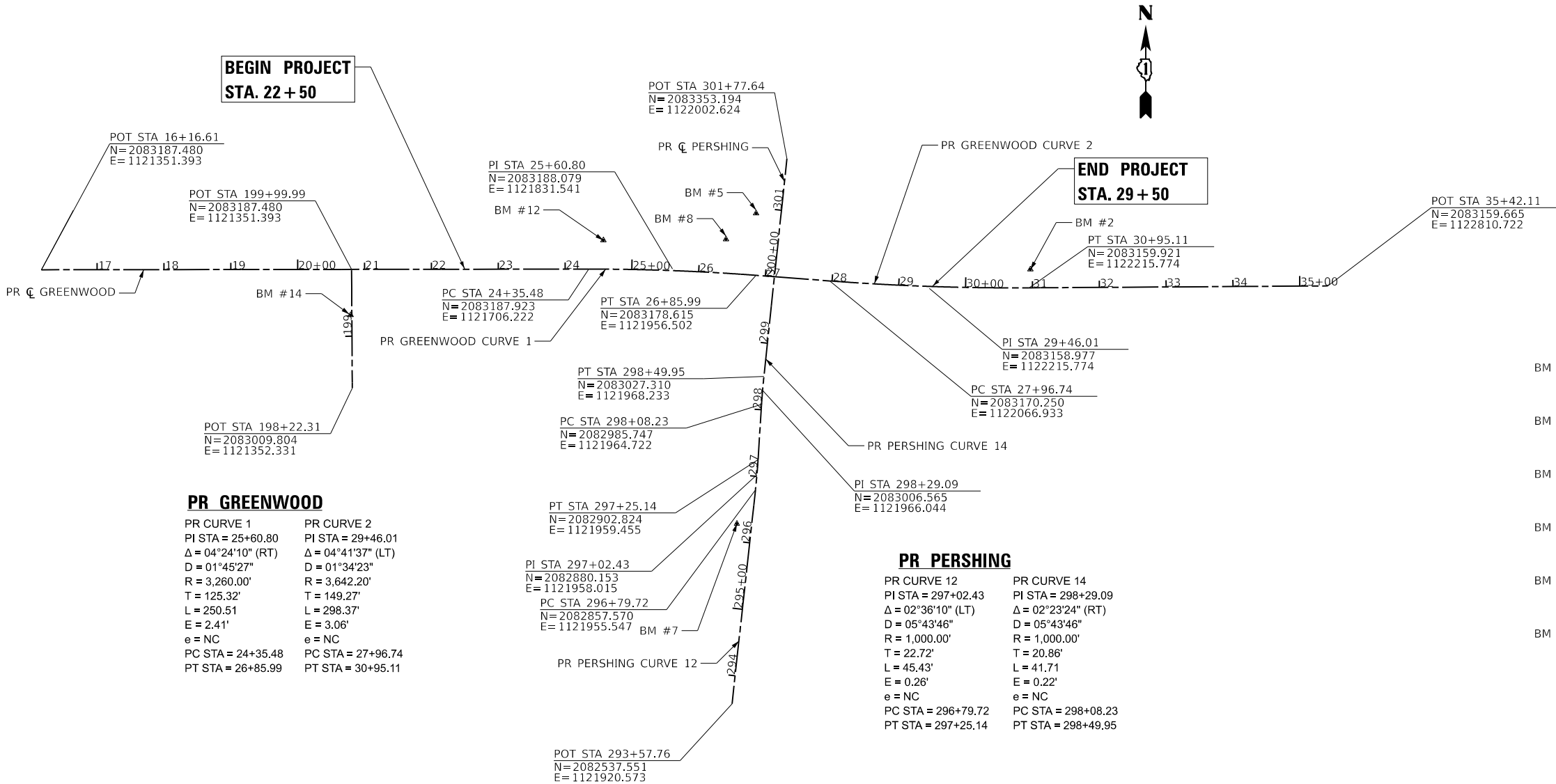
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

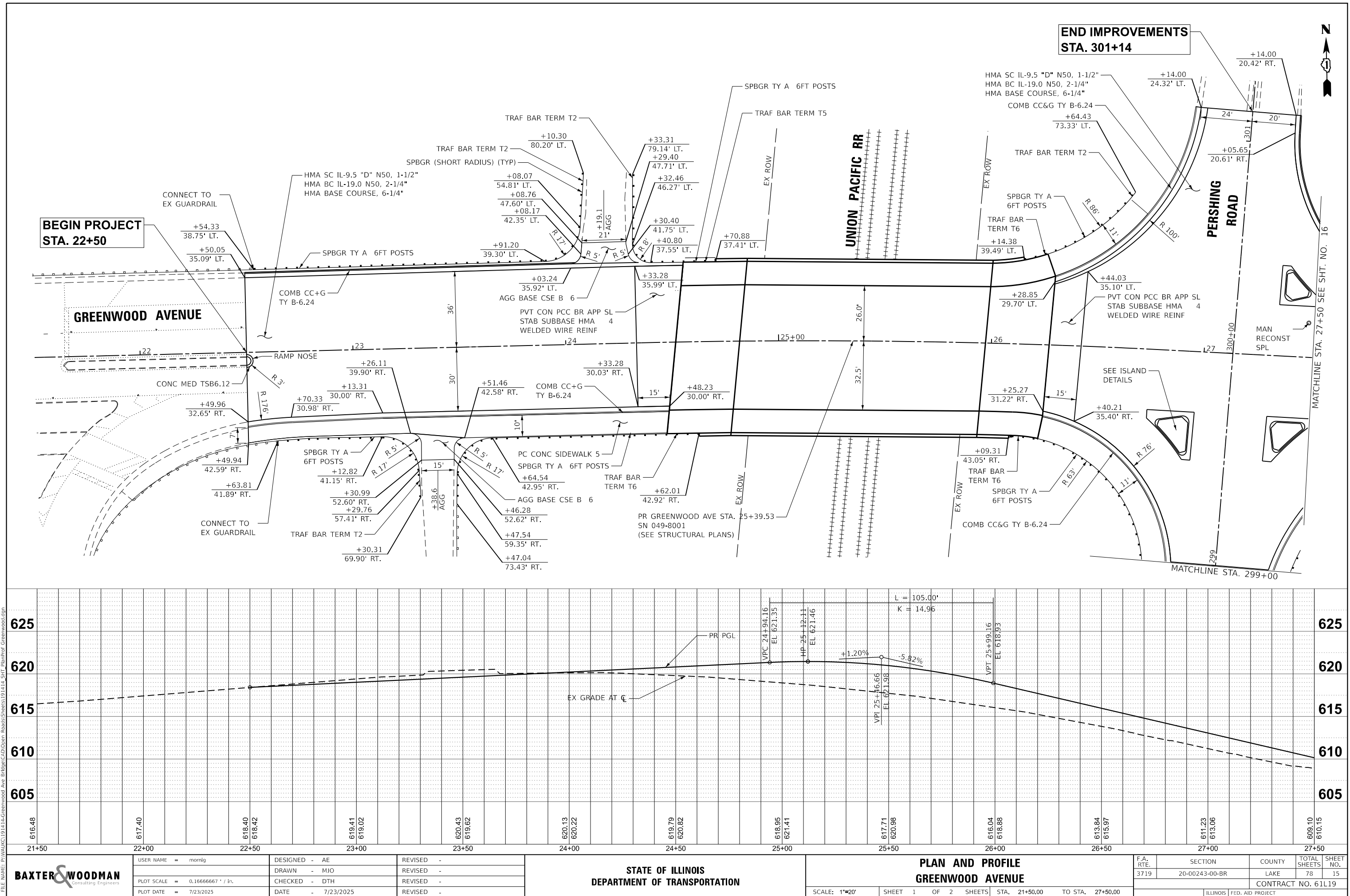
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	13
CONTRACT NO. 61L19				
		ILLINOIS	FED. AID PROJECT	



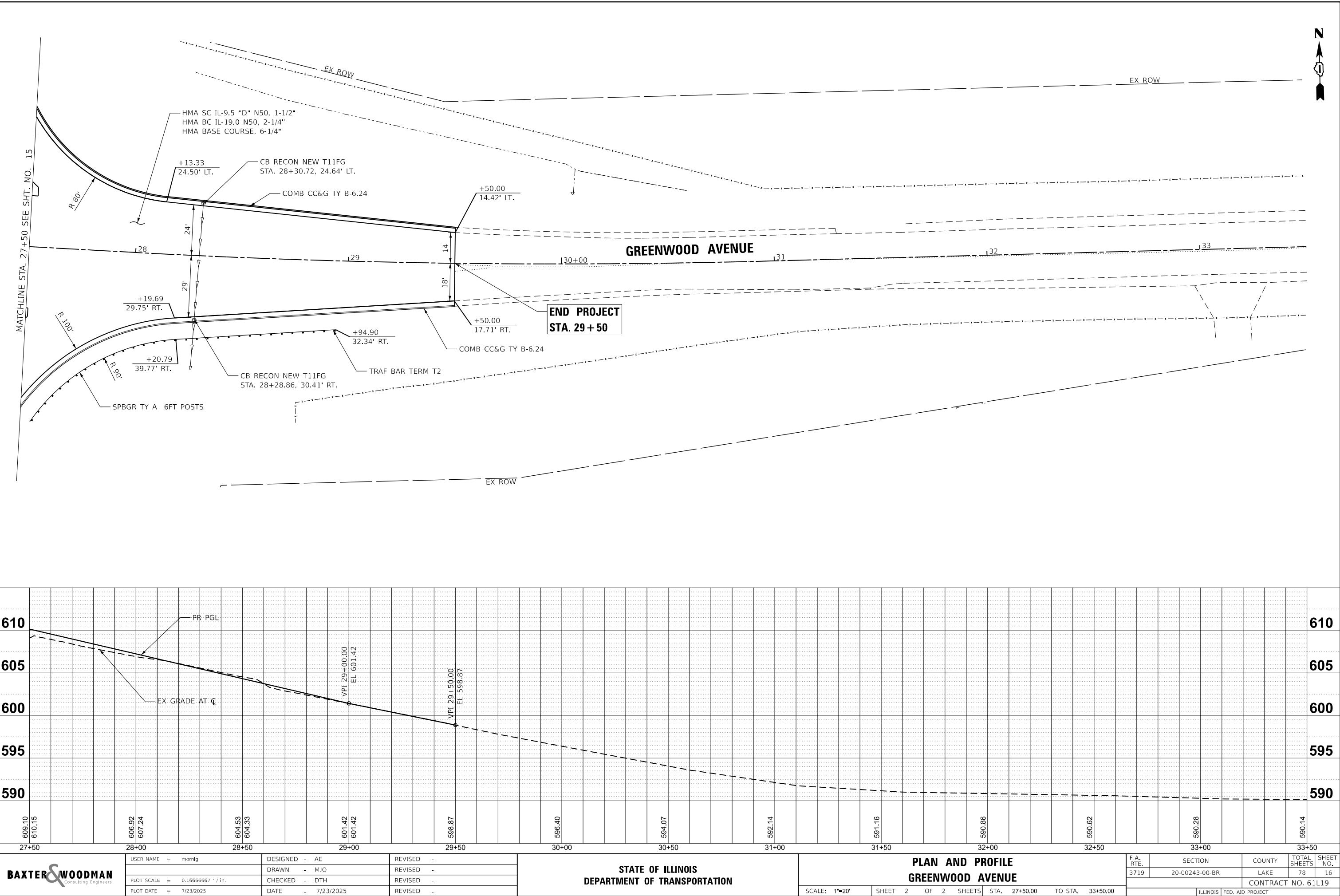
BENCHMARKS

BM #2	MINI RRS ON SOUTH FACE OF POWERPOLE ON NORTH SIDE OF GREENWOOD, APPROX. 700' EAST OF BRIDGE ELEV. = 592.742 (NAVD88)
BM #5	MINI RRS ON EAST FACE OF POWERPOLE ON NORTHWEST CORNER OF GREENWOOD AND PERSHING. ELEV. = 612.800 (NAVD88)
BM #7	MINI RRS ON EAST FACE OF POWERPOLE ON WEST SIDE OF PERSHING, APPROX. 400' SOUTH OF GREENWOOD ELEV. = 602.479 (NAVD88)
BM #8	CHISELED X ON NORTHEAST WINGWALL OF BRIDGE ON NORTH SIDE OF GREENWOOD ELEV. = 617.136 (NAVD88)
BM #12	CHISELED X ON NORTHWEST WINGWALL OF BRIDGE ON NORTH SIDE OF GREENWOOD ELEV. = 621.717 (NAVD88)
BM #14	CHISELED X ON NORTH SIDE OF CONCRETE LIGHTPOLE FOUNDATION ON SOUTH SIDE OF GREENWOOD BETWEEN NB+SB AMSTUTZ ELEV. = 614.879 (NAVD88)



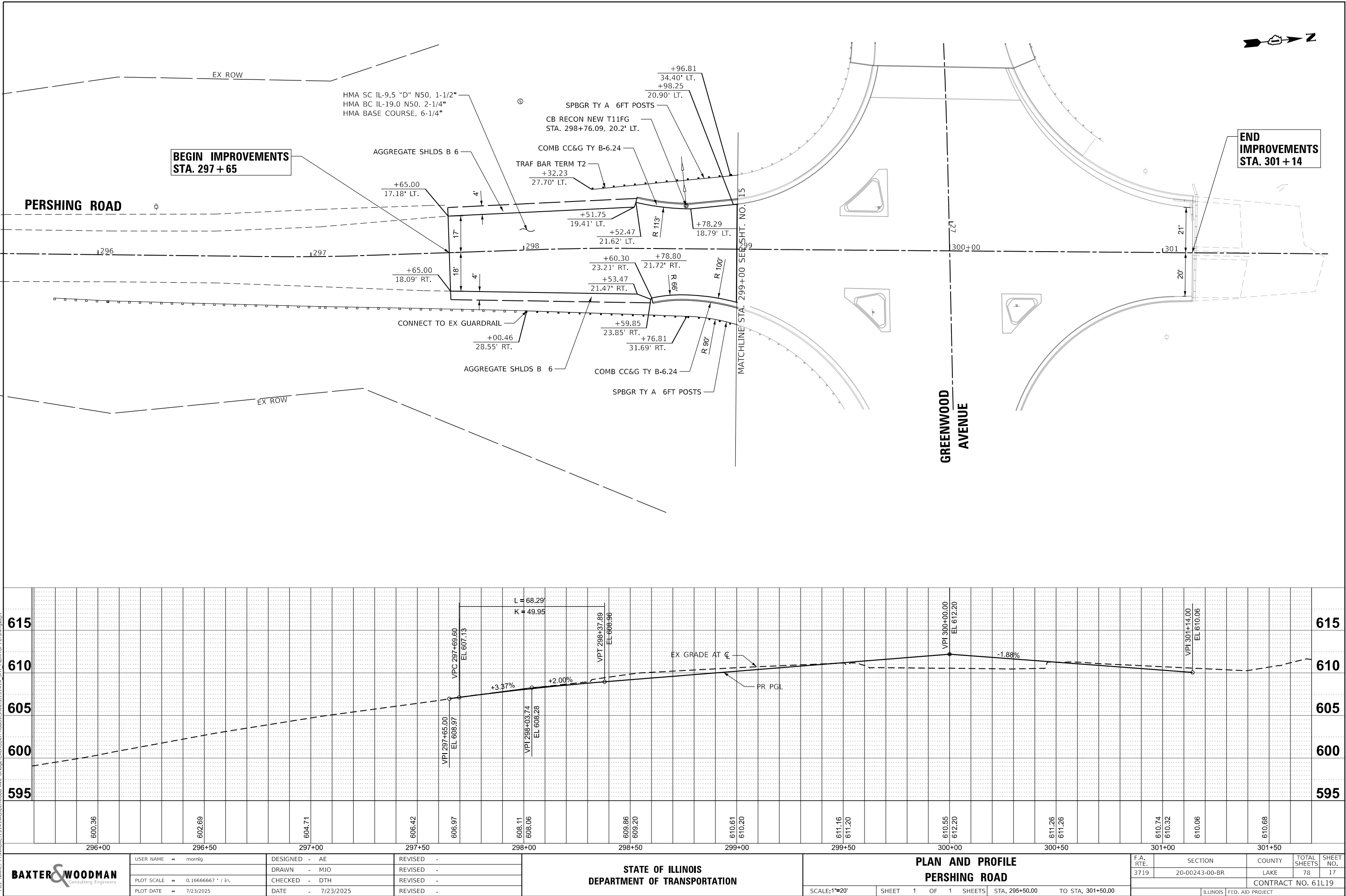
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BAXTER & WOODMAN
Consulting Engineers

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		DRAWN -	MJO	REVISED -	
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PLOT DATE =	7/23/2025	DATE -	7/23/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
PERSHING ROAD

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 295+50.00 TO STA. 301+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	17
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

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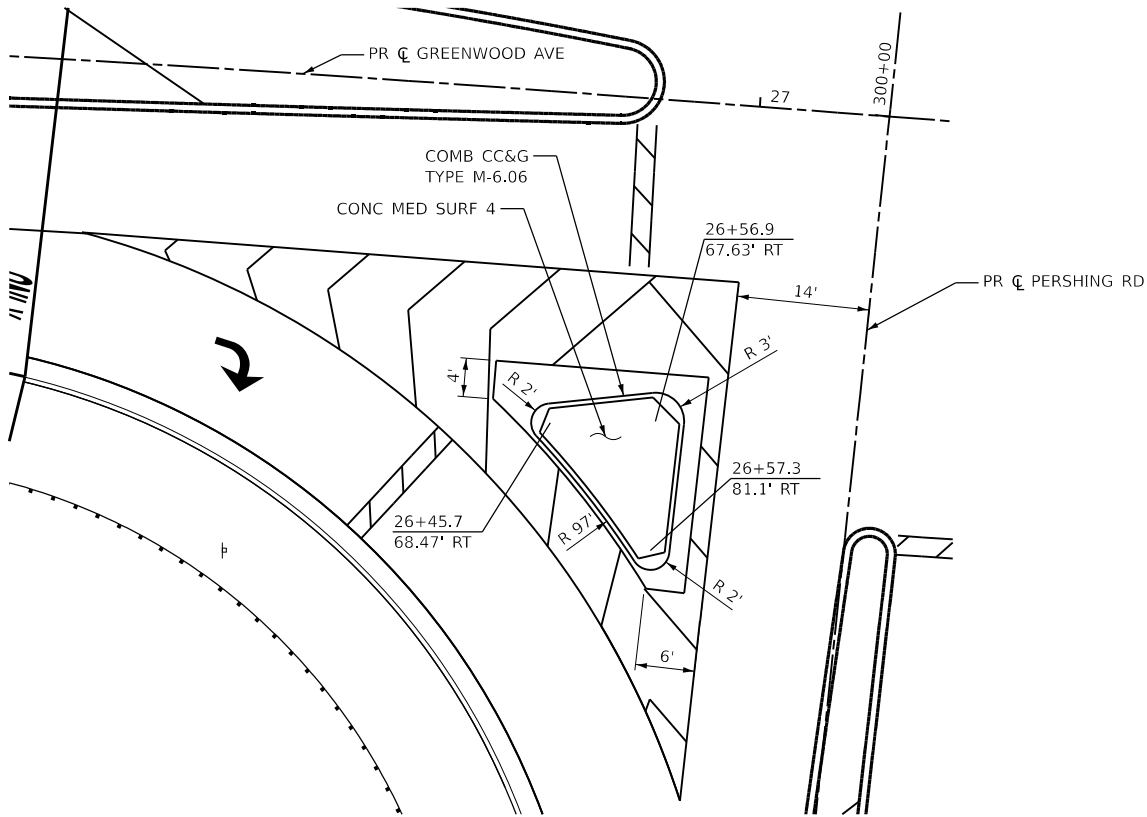
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

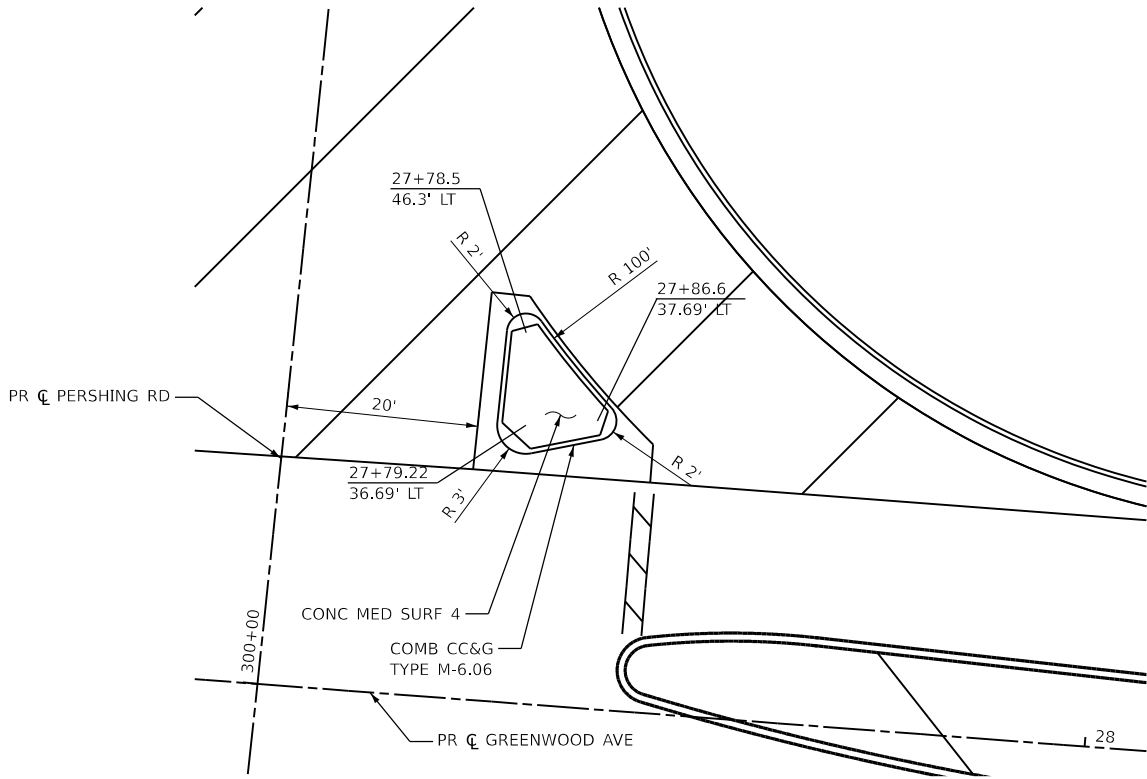
ISLAND DETAILS
GREENWOOD AVENUE AT PERSHING ROAD

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

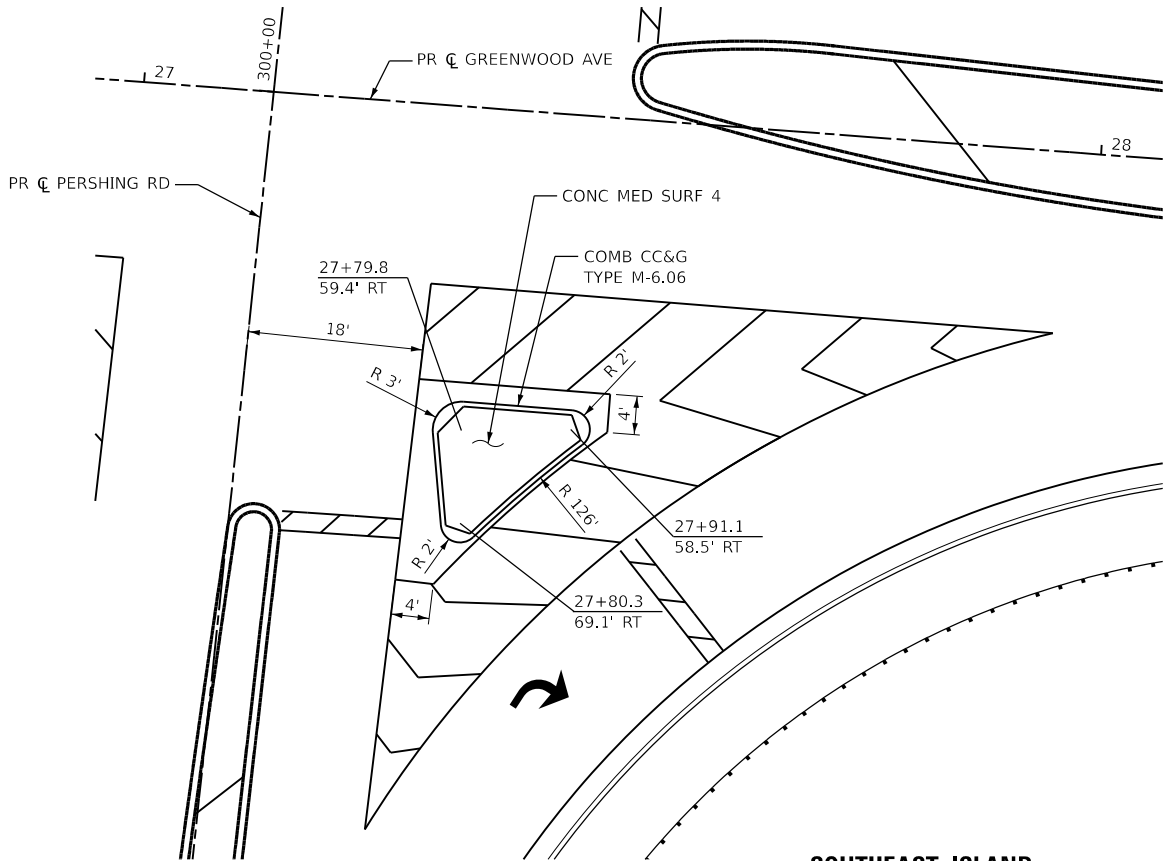
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	18
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				



SOUTHWEST ISLAND

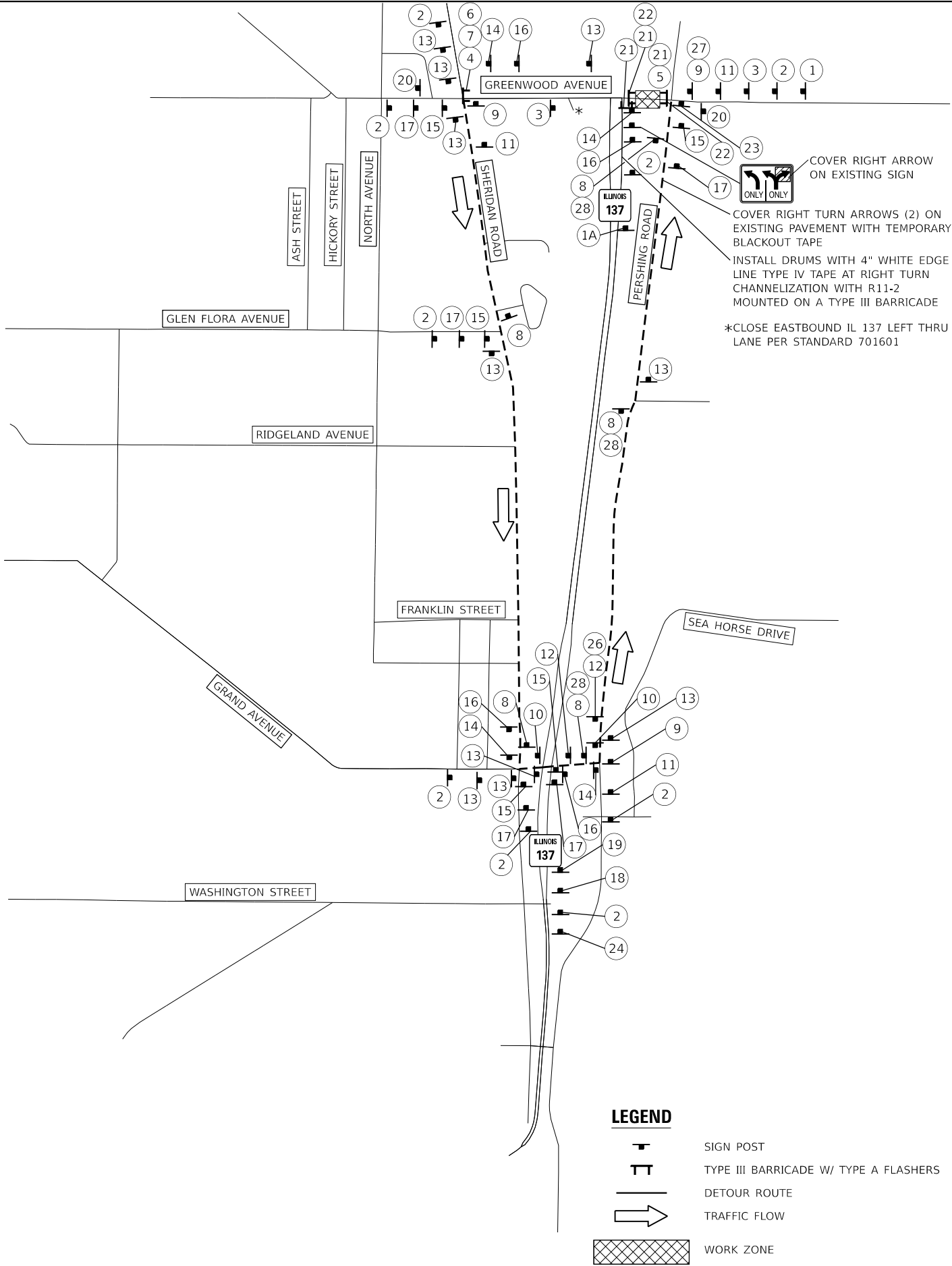


NORTHEAST ISLAND

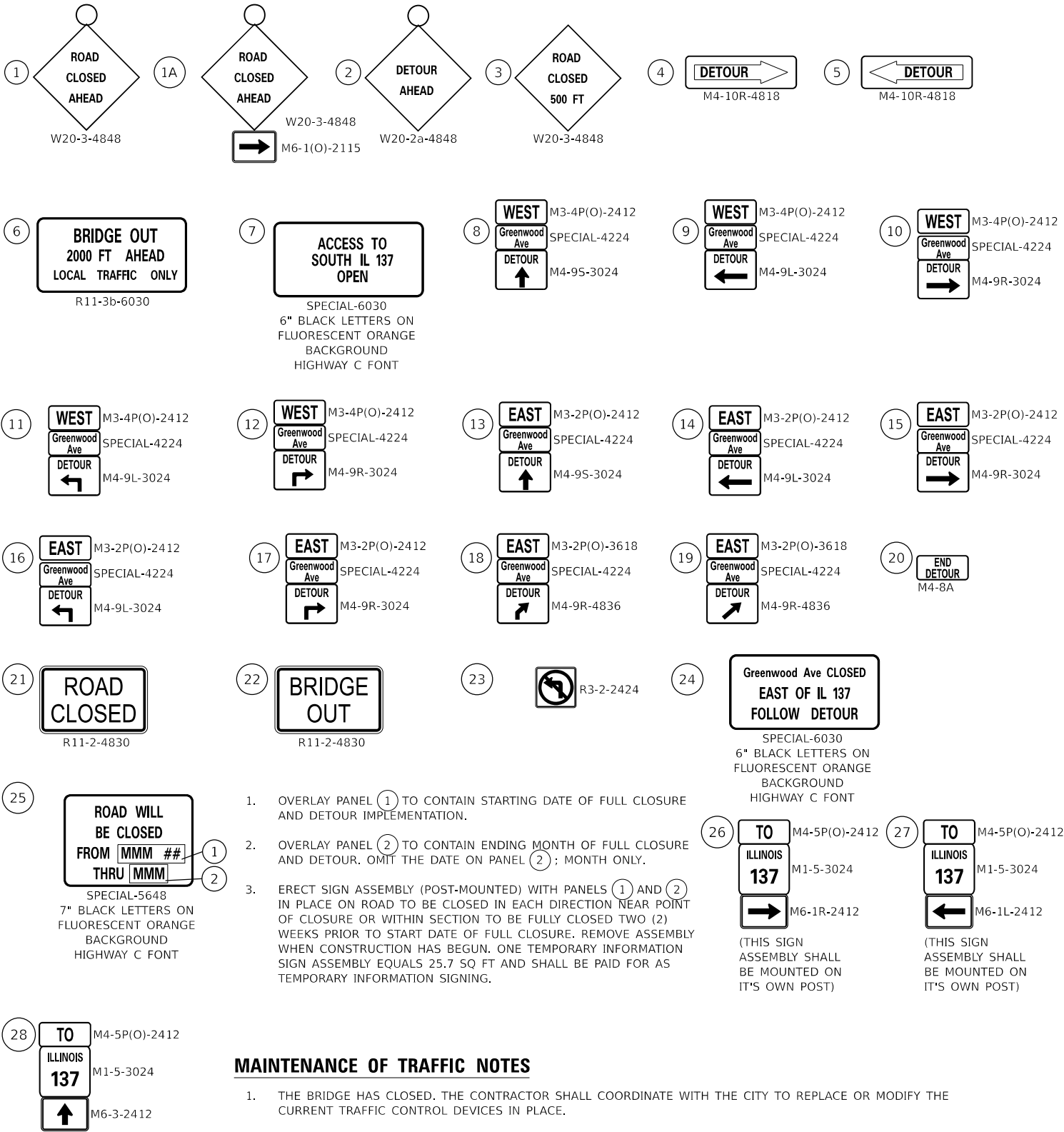


SOUTHEAST ISLAND

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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aericksen
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SIGN DETAILS



MAINTENANCE OF TRAFFIC NOTES

- THE BRIDGE HAS CLOSED. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TO REPLACE OR MODIFY THE CURRENT TRAFFIC CONTROL DEVICES IN PLACE.
- DURING CONSTRUCTION STAGING OPERATIONS, THE CITY SHALL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO STREET CLOSURES ON GREENWOOD AVENUE.
- THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
- THE FURNISHING, INSTALLATION, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- REFER TO DISTRICT 1 DETAIL TC-21 FOR TYPICAL SIGN LAYOUT AND SPACING.

BAXTER & WOODMAN
Consulting Engineers

USER NAME =	aericksen	DESIGNED -	AE	REVISED -	
		DRAWN -	MJO	REVISED -	
PLOT SCALE =	20,000 ' / in.	CHECKED -	DTH	REVISED -	
PLOT DATE =	11/5/2025	DATE -	11/5/2025	REVISED -	

LEGEND

	SIGN POST
	TYPE III BARRICADE W/ TYPE A FLASHERS
	DETOUR ROUTE
	TRAFFIC FLOW
	WORK ZONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETOUR PLAN

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	19
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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EROSION CONTROL NOTES

1. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
2. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:
[HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)
3. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24-HOUR PERIOD, OR EQUIVALENT SNOWFALL, ADDITIONALLY, DURING WINTER MONTHS. ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
4. THE CONTRACTOR SHALL UTILIZE THE GENERAL MAINTENANCE GUIDELINES AS OUTLINED IN THE SWPPP TO ENSURE GOOD AND EFFECTIVE OPERATING CONDITION OF THE VEGETATION AND EROSION AND SEDIMENT CONTROL MEASURES.
5. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL.
6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
7. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
8. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.

BAXTER & WOODMAN
Consulting Engineers

USER NAME	=	morning	DESIGNED	-	AE	REVISED	-
			DRAWN	-	MJO	REVISED	-
PLOT SCALE	=	40,000' / in.	CHECKED	-	DTH	REVISED	-
PLOT DATE	=	7/23/2025	DATE	-	7/23/2025	REVISED	-

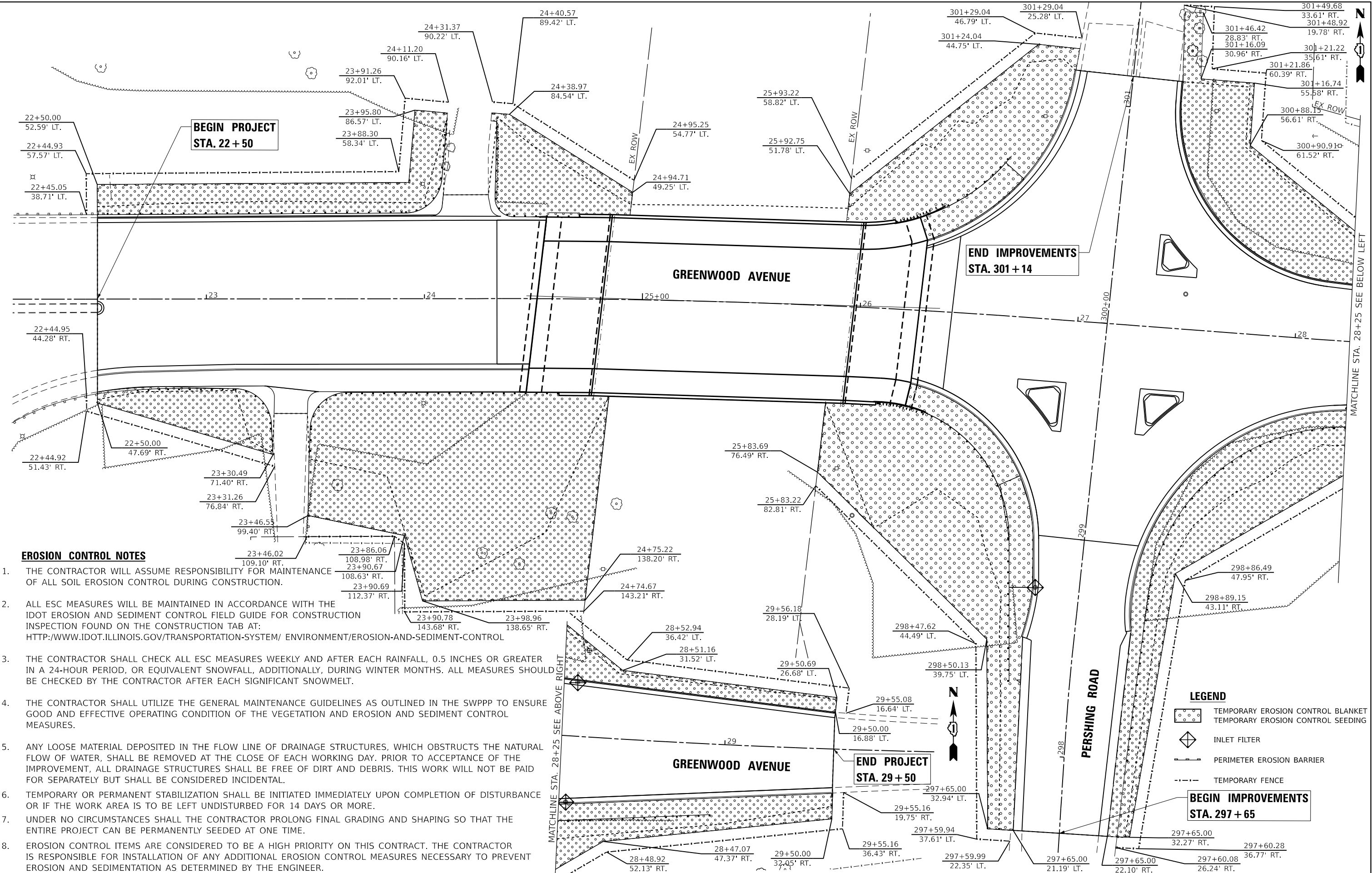
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DATE	-	7/23/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

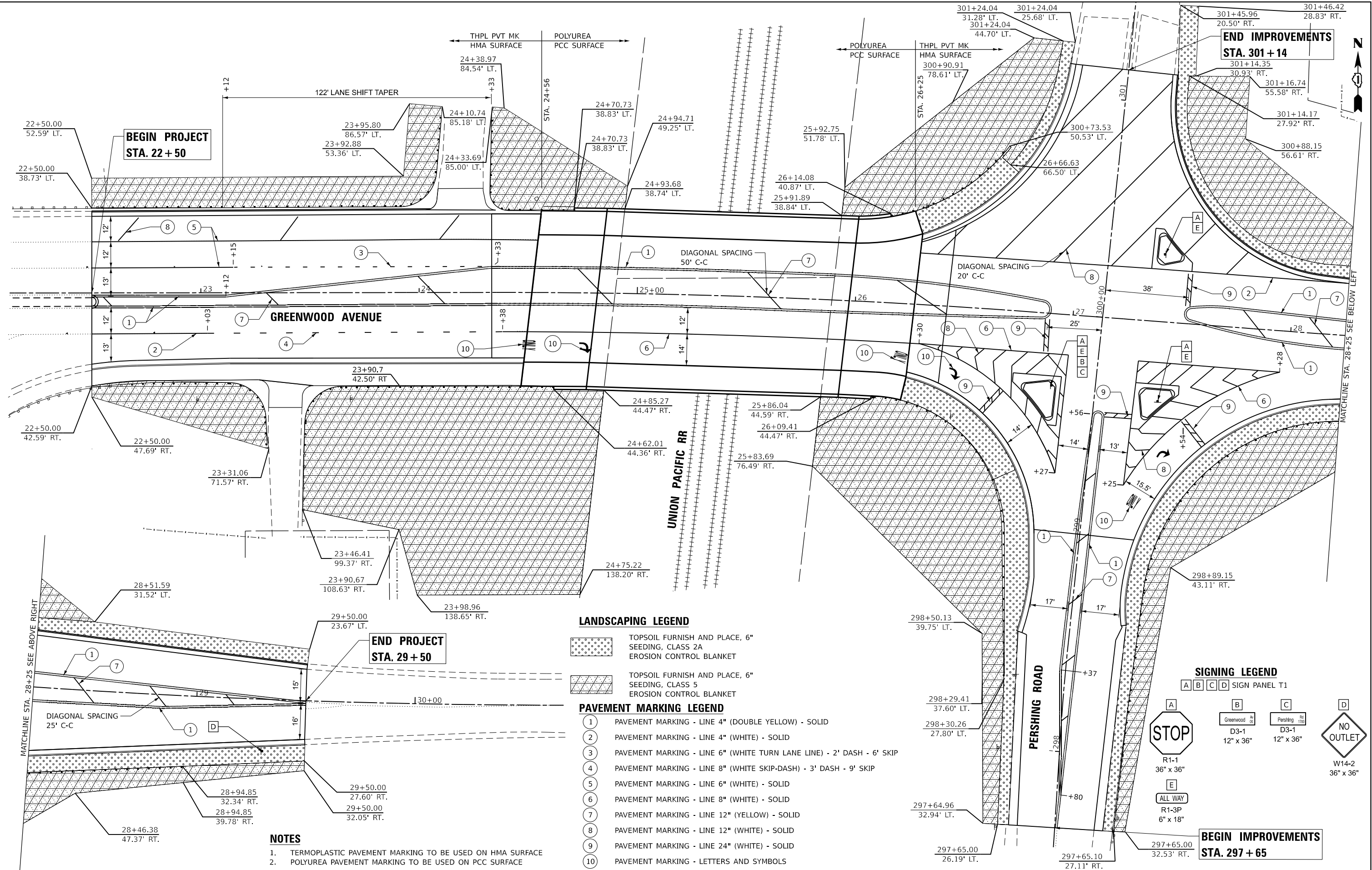
**EROSION CONTROL PLAN
GREENWOOD AVENUE**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 22+00 TO STA. 30+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	20
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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NOTES

1. TERMOPLASTIC PAVEMENT MARKING TO BE USED ON HMA SURFACE
2. POLYUREA PAVEMENT MARKING TO BE USED ON PCC SURFACE

LANDSCAPING LEGEND

- TOPSOIL FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 6" SEEDING, CLASS 5 EROSION CONTROL BLANKET

PAVEMENT MARKING LEGEND

- 1. PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) - SOLID
- 2. PAVEMENT MARKING - LINE 4" (WHITE) - SOLID
- 3. PAVEMENT MARKING - LINE 6" (WHITE TURN LANE LINE) - 2' DASH - 6' SKIP
- 4. PAVEMENT MARKING - LINE 8" (WHITE SKIP-DASH) - 3' DASH - 9' SKIP
- 5. PAVEMENT MARKING - LINE 6" (WHITE) - SOLID
- 6. PAVEMENT MARKING - LINE 8" (WHITE) - SOLID
- 7. PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID
- 8. PAVEMENT MARKING - LINE 12" (WHITE) - SOLID
- 9. PAVEMENT MARKING - LINE 24" (WHITE) - SOLID
- 10. PAVEMENT MARKING - LETTERS AND SYMBOLS

SIGNING LEGEND

- A B C D SIGN PANEL T1
- STOP R1-1 36" x 36"
- ALL WAY R1-3P 6" x 18"
- Greenwood D3-1 12" x 36"
- Pershing D3-1 12" x 36"
- NO OUTLET W14-2 36" x 36"

BAXTER & WOODMAN
Consulting Engineers

USER NAME	=	morning
PLOT SCALE	=	40,000' / in.
PLOT DATE	=	7/23/2025

DESIGNED	-	AE
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DATE	-	7/23/2025

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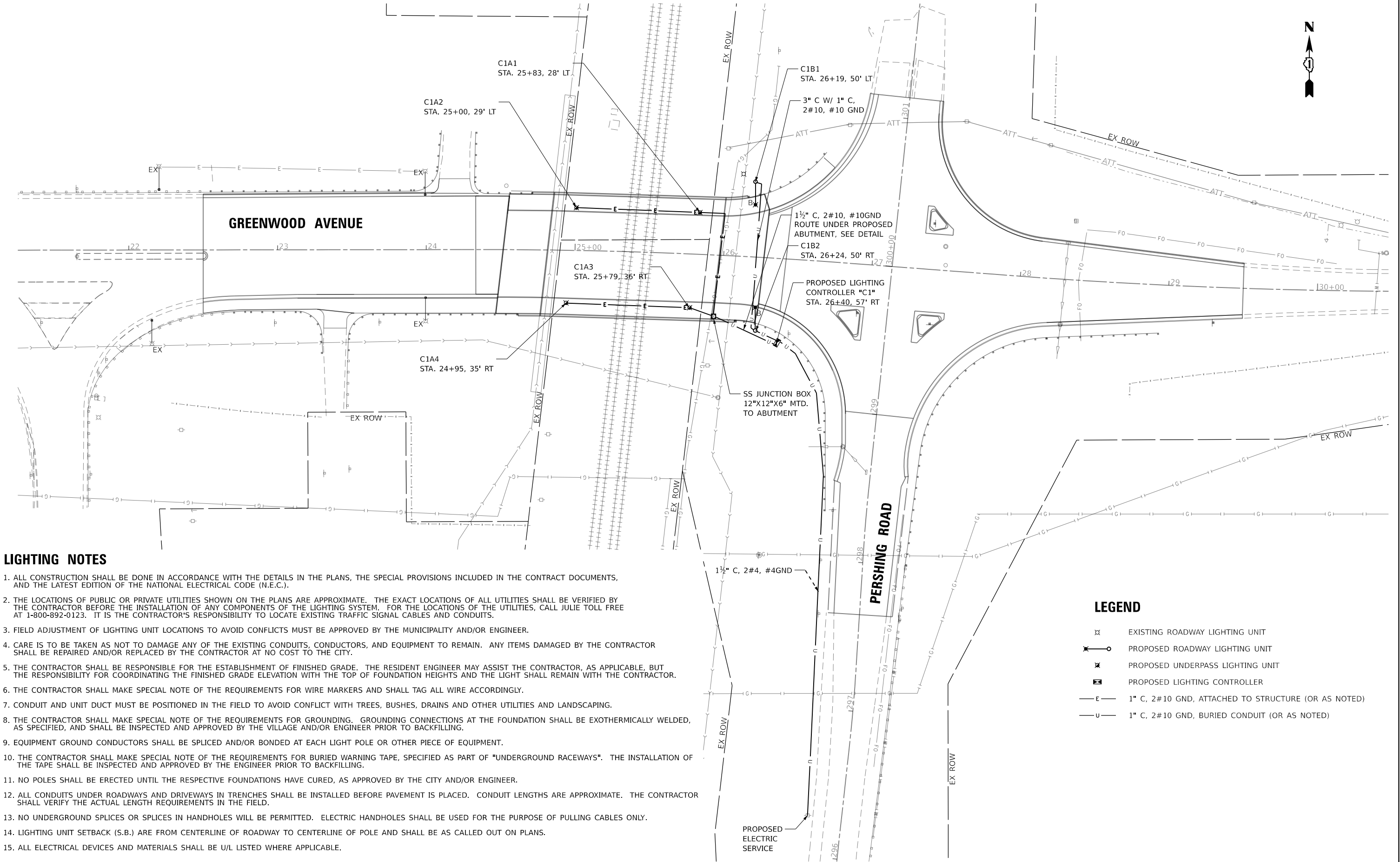
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, LANDSCAPING, AND SIGNAGE PLAN
GREENWOOD AVENUE

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 22+00 TO STA. 30+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	21
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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LIGHTING NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.).
2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING TRAFFIC SIGNAL CABLES AND CONDUITS.
3. FIELD ADJUSTMENT OF LIGHTING UNIT LOCATIONS TO AVOID CONFLICTS MUST BE APPROVED BY THE MUNICIPALITY AND/OR ENGINEER.
4. CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING CONDUITS, CONDUCTORS, AND EQUIPMENT TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
6. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
7. CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
8. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE VILLAGE AND/OR ENGINEER PRIOR TO BACKFILLING.
9. EQUIPMENT GROUND CONDUCTORS SHALL BE SPliced AND/OR BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
10. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR BURIED WARNING TAPE, SPECIFIED AS PART OF "UNDERGROUND RACEWAYS". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING.
11. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE CITY AND/OR ENGINEER.
12. ALL CONDUITS UNDER ROADWAYS AND DRIVEWAYS IN TRENCHES SHALL BE INSTALLED BEFORE PAVEMENT IS PLACED. CONDUIT LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL LENGTH REQUIREMENTS IN THE FIELD.
13. NO UNDERGROUND SPLICES OR SPLICES IN HANDHOLES WILL BE PERMITTED. ELECTRIC HANDHOLES SHALL BE USED FOR THE PURPOSE OF PULLING CABLES ONLY.
14. LIGHTING UNIT SETBACK (S.B.) ARE FROM CENTERLINE OF ROADWAY TO CENTERLINE OF POLE AND SHALL BE AS CALLED OUT ON PLANS.
15. ALL ELECTRICAL DEVICES AND MATERIALS SHALL BE U/L LISTED WHERE APPLICABLE.

LEGEND

- EXISTING ROADWAY LIGHTING UNIT
- PROPOSED ROADWAY LIGHTING UNIT
- PROPOSED UNDERPASS LIGHTING UNIT
- PROPOSED LIGHTING CONTROLLER
- 1" C, 2#10 GND, ATTACHED TO STRUCTURE (OR AS NOTED)
- 1" C, 2#10 GND, BURIED CONDUIT (OR AS NOTED)

BAXTER & WOODMAN
Consulting Engineers

USER NAME	=	morrig	DESIGNED	-	AE	REVISED	-
			DRAWN	-	MJO	REVISED	-
PLOT SCALE	=	60,000' / in.	CHECKED	-	DTH	REVISED	-
PLOT DATE	=	7/23/2025	DATE	-	7/23/2025	REVISED	-

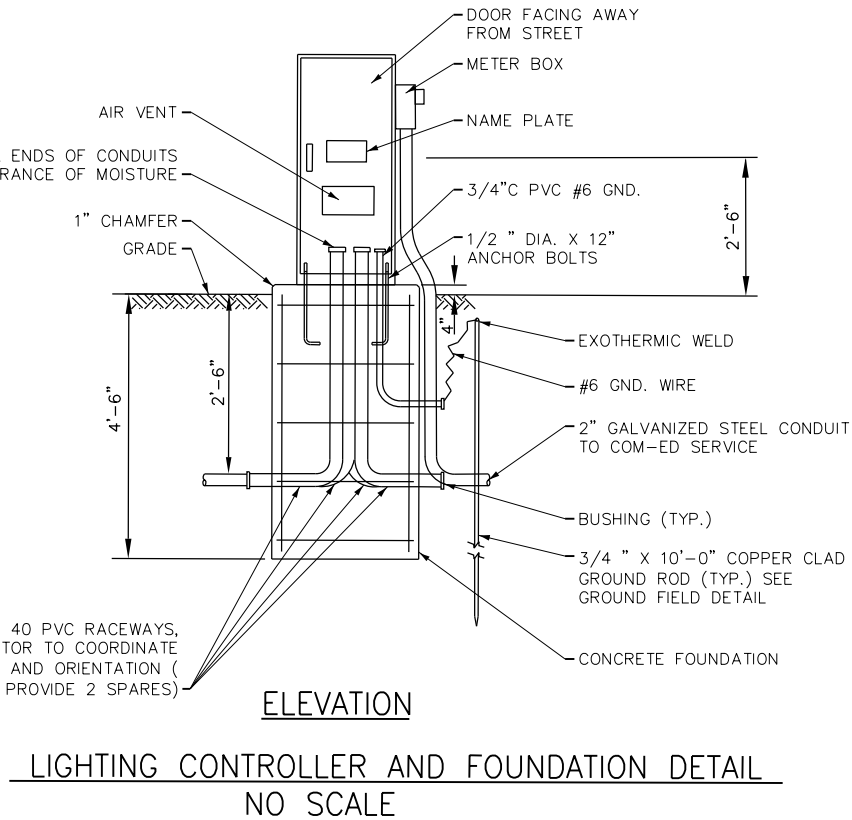
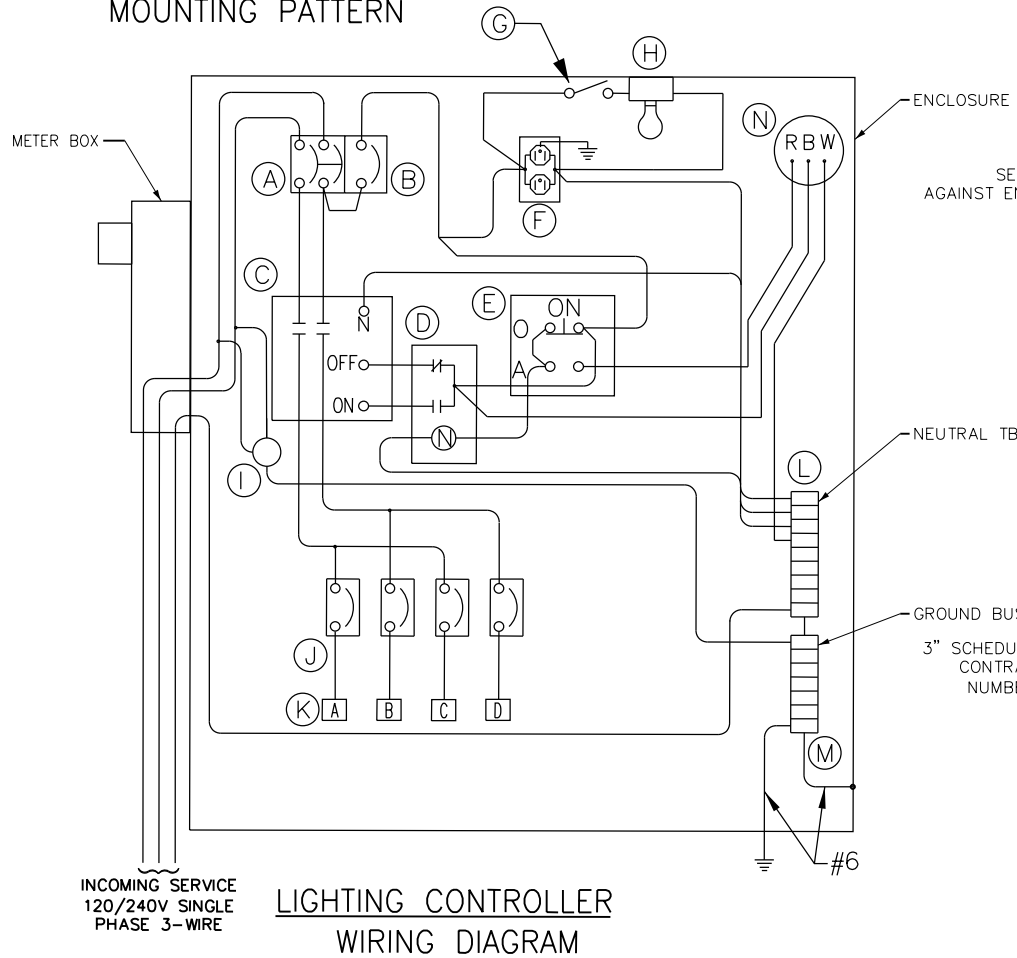
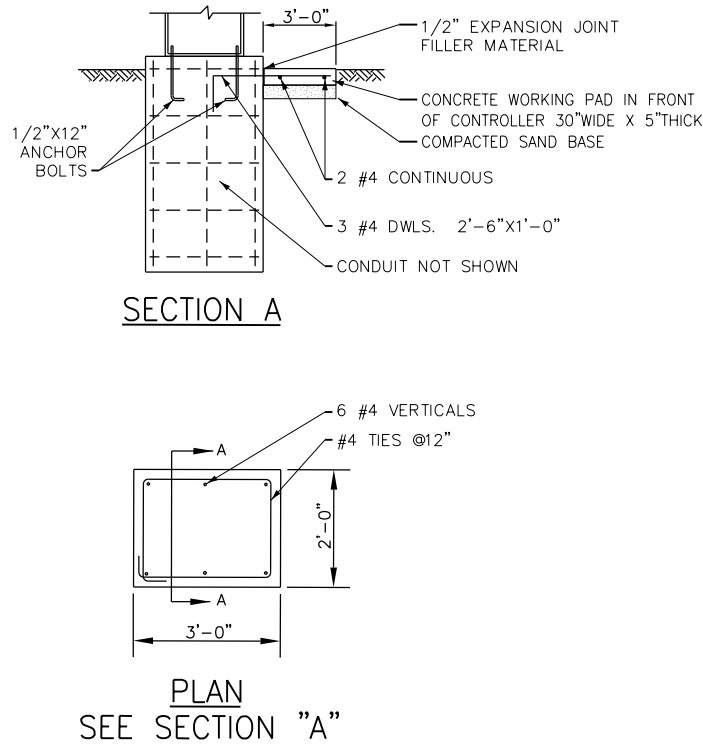
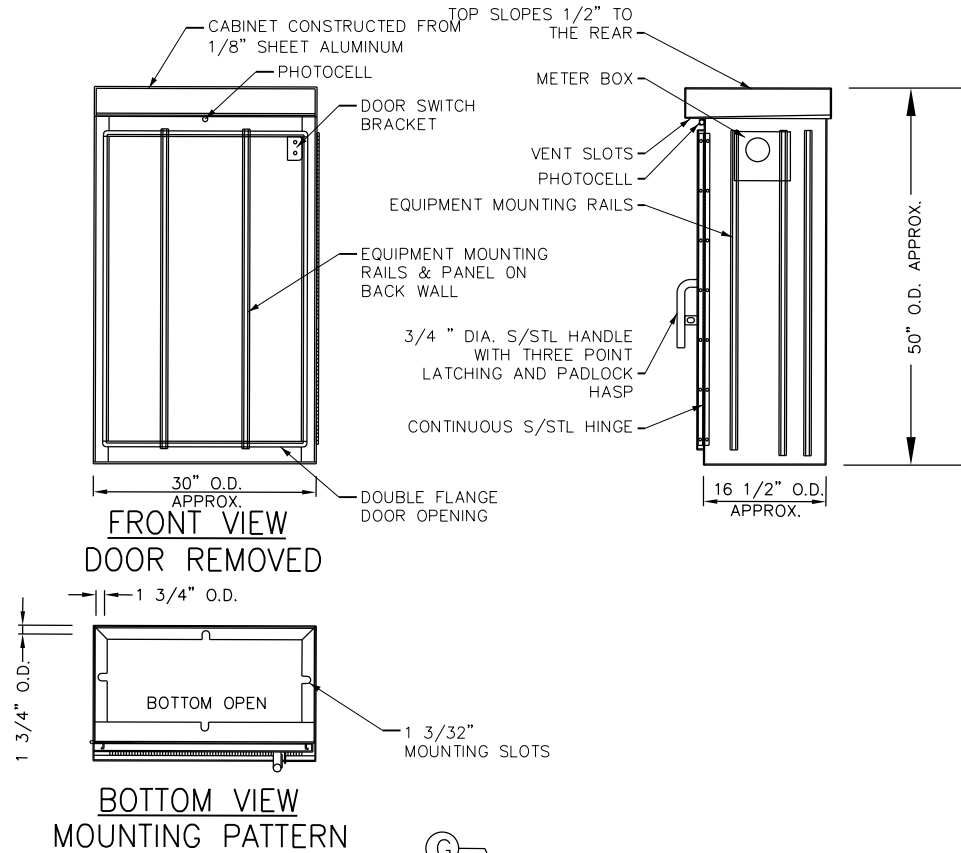
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**LIGHTING PLAN
GREENWOOD AVENUE**

SCALE: 1" = 30' SHEET 1 OF 1 SHEETS STA. 21+25 TO STA. 30+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	22
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

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ITEM	QTY.	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 240 V. SINGLE-PHASE, 100A, BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 22,000 RMS SYMMETRICAL AMPERES AT 240 V.
B	1	CONTROL CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, SINGLE-POLE, 120 V. SINGLE PHASE 20 A. BOLT-ON TYPE, TRIP INTERRUPTING RATING OF 14,000 RMS SYMMETRICAL AMPERES AT 120 V.
C	1	LIGHTING CONTACTOR MECHANICALLY HELD, 200A, 2-POLE, 600 V. WITH 120 COIL
D	1	120V OPERATED DPDT 60 HZ COIL, 600V, 2 N.O. & 2 N.C. CONTACTS
E	1	ON-OFF-AUTO 3-POSITION SELECTOR SWITCH HEAVY DUTY SWITCH, RATED FOR 10 A. AT 600 VAC.
F	1	GFCI RECEPTACLE, 120 V., 20 A. SPEC. GRADE, NEMA CONFIG. 5-20R IN WEATHERPROOF CAST ALUMINUM BOX W/ WEATHERPROOF COVER
G	1	SPDT LIMIT SWITCH WITH SIDE PUSH ROD PLUNGER RATED 20 A. AT 120 V.
H	1	100 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE, GUARD AND CAST ALUMINUM MOUNTING BOX. (OR EQUIVALENT LED UNIT)
I	4	SECONDARY SURGE ARRESTER, 175 VAC PHASE-TO-GROUND MAXIMUM
J	4	BRANCH CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 240 V. SINGLE-PHASE, 20A, TRIP INTERRUPTING RATING 22,000 RMS SYMMETRICAL AMPERES AT 240 V.
K	4	TERMINAL BLOCK RATED 600 V., 85 A.
L	1	COPPER NEUTRAL BUS
M	1	COPPER GROUND BUS
N	1	PHOTOCELL - 120V, BUTTON STYLE, DELAY TYPE, SPST

NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH SHEET ALUMINUM, ALLOY 5052 FORMED AND ARC WELDED ASSEMBLY WITH NEMA 3R RATING. COMPACT AS POSSIBLE.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- NAME PLATE SHALL BE STEEL W/ENGRAVED 0.75-INCH HIGH LETTERS FILLED IN BLACK, "CITY OF WAUKEGAN STREET LIGHTING"
- CABINET SHALL HAVE NATURAL ALUMINUM FINISH.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER AND ALL ELECTRICAL COMPONENTS SHALL BE U.L. LISTED AS AN ENCLOSED INDUSTRIAL CONTROL PANEL UNDER UL508A, AND SHOULD BE SERVICE ENTRANCE RATED.
- METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTOR AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
- ALL LUGS SHALL BE COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW (XLP-TYPE USE).
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- SERVICE EQUIPMENT SHALL BE MARKED TO IDENTIFY IT AS BEING SUITABLE FOR USE AS SERVICE EQUIPMENT
- CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED".
- CONCRETE FOUNDATION AND SERVICE PAD ARE INCLUDED AS PART OF THE PAY ITEM.

BAXTER & WOODMAN
Consulting Engineers

USER NAME =	morrig	DESIGNED -	AE	REVISED -	
DRAWN -	MJO	REVISD -		REVISED -	
PLOT SCALE =	60,000' / in.	CHECKED -	DTH	REVISED -	
PLOT DATE =	7/23/2025	DATE -	7/23/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	23
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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DATE	-	7/23/2025
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PLOT DATE	=	7/23/2025

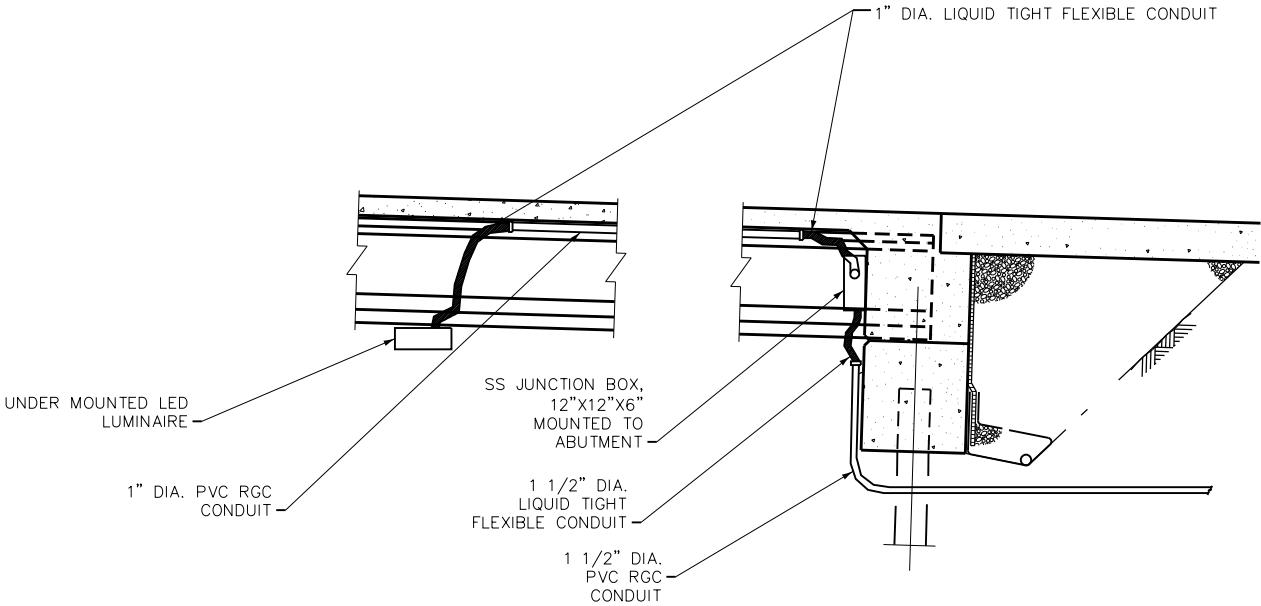
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

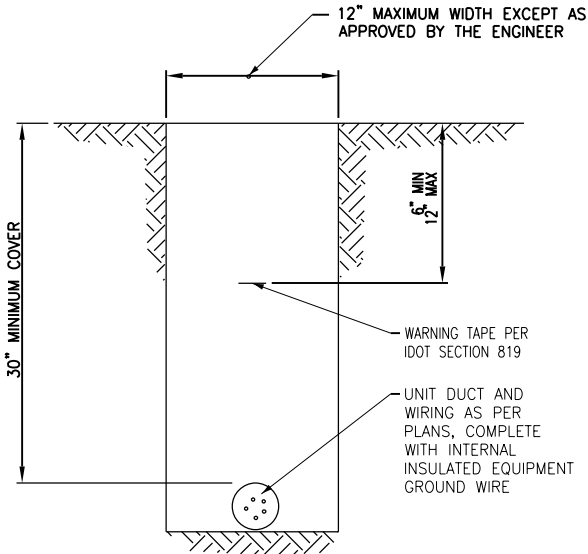
LIGHTING DETAILS

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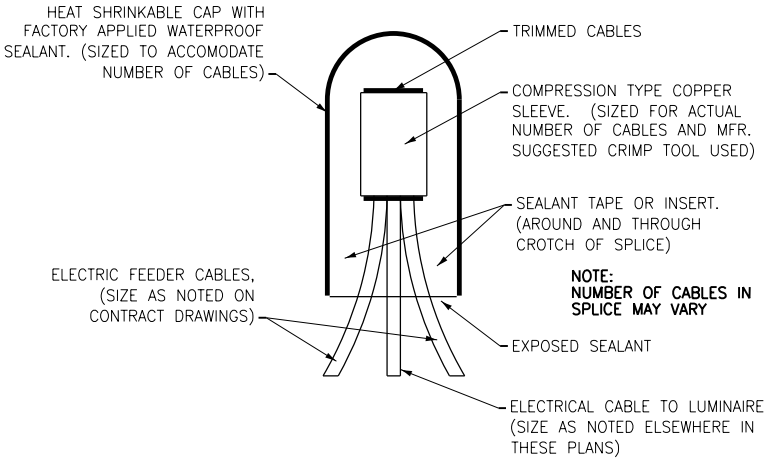
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	24
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				



LUMINAIRE INSTALLATION DETAIL
NO SCALE



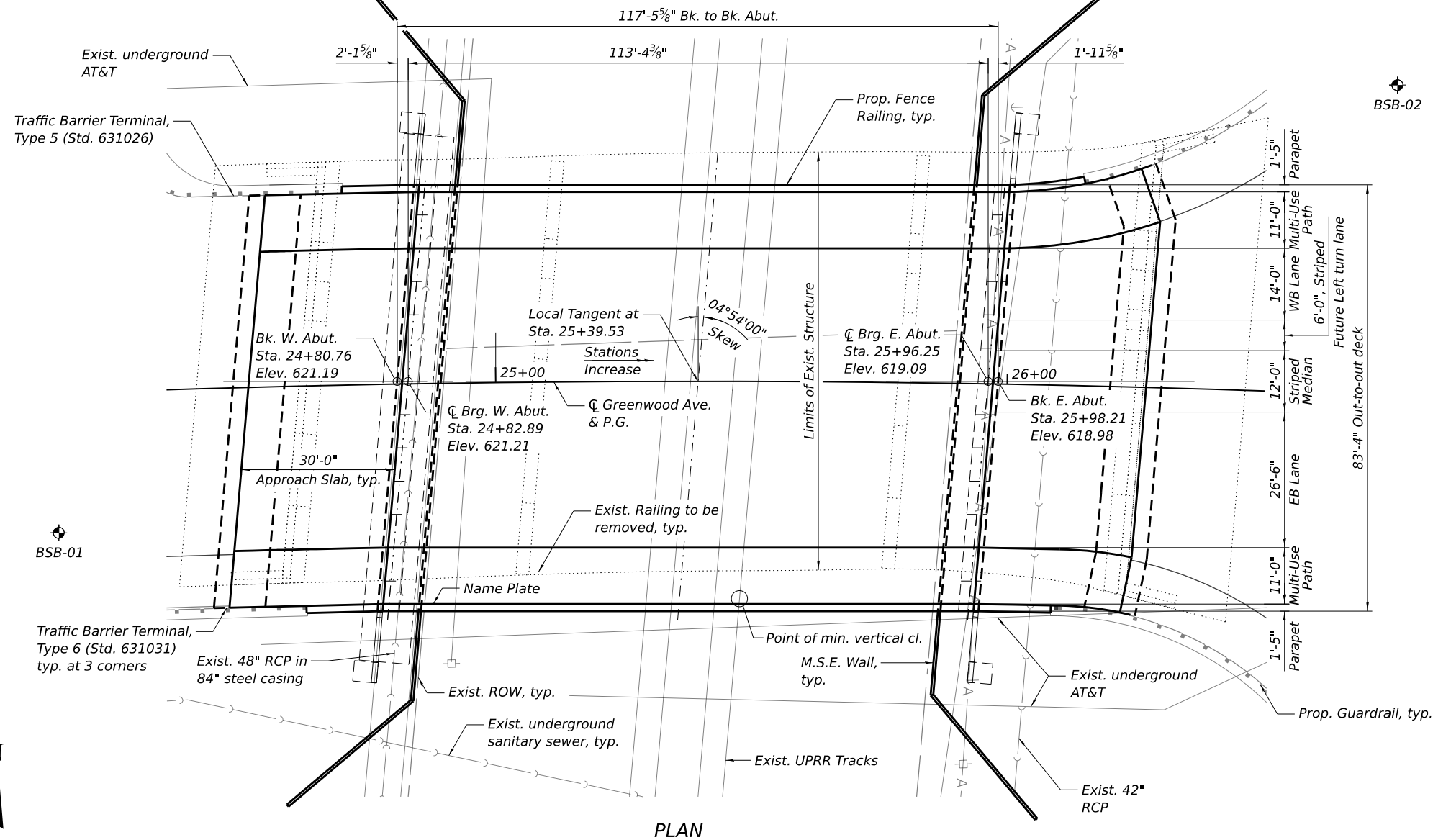
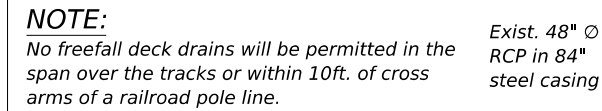
TYPICAL WIRING IN TRENCH DETAIL
NO SCALE



SPlicing ELECTRICAL CABLES
BASIC MATERIALS AND METHODS
NO SCALE

Existing Structure:	S.N. 049-9952 is a three-span structure, built in 1972 under Section 8-VB, F.A. Route 42. 165'-0¾" back-to-back of abutments, out-to-out width 82'-0" and varies. 30" continuous wide flange beams with variable spacing supporting a 7½" slab, composite in center span only. Multi-column piers supported on drilled concrete piers. Stub abutments supported on concrete piles.
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No Salvage.



Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.076g
Design Spectral Acceleration at 0.2 sec (SDS) = 0.121g
Soil Site Class = D

2020 AASHTO LRFD Bridge Design
Specifications, 9th Edition

$f_c = 3,500 \text{ psi (Substructure)}$
 $f_c = 4,000 \text{ psi (Superstructure)}$
 $f_y = 60,000 \text{ psi (Reinforcement)}$

= 270,000 psi (0.6" Ø low lax. strands)
= 202,300 psi (0.6" Ø low lax. strands)

$$f'_c = 4,500 \text{ psi}$$

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

—) —) — *Exist. Sanitary Sewer*

—————A————— *Exist. Aerial Line*

Exist. Aerial Line

Exist. AT&T Buried

BUILT 202_BY
CITY OF WAUKEGAN
SEC. 20-000243-00-BR
F.A. RT 3719
STA. 25+39.53
STR. NO. 049-8001
HL-93 LOADING

See Std. 515001

Range 12E, 3rd P.M.

Structure Location

Twp. 45N

Greenwood Ave.

IL Rte. 137

UPRR

Pershing Rd.

9, 10, 15, 16

GENERAL PLAN AND ELEVATION

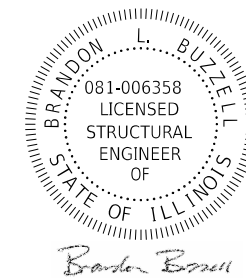
OVER UNION PACIFIC RAILROAD

SEC 20-00243-00-BR

LAKE COUNTY

STA. 25+39.53

STRUCTURE NO. 049-8001

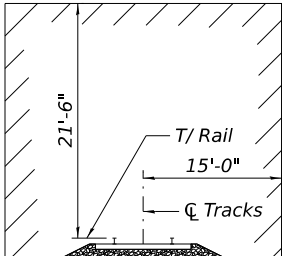


DATE: 07-23-2025
 LICENSE EXPIRES 11-30-2025

BAXTER & WOODMAN Consulting Engineers	USER NAME =	DESIGNED - EBK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 049-8001	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - BLB	REVISED -			3719	20-00243-00-BR	LAKE	78	26
	PLOT SCALE =	DRAWN - EBK	REVISED -							
	PLOT DATE =	CHECKED - BLB	REVISED -							
						CONTRACT NO. 61L19				
						SHEET S-01 OF S-35 SHEETS				
						ILLINOIS FED. AID PROJECT				

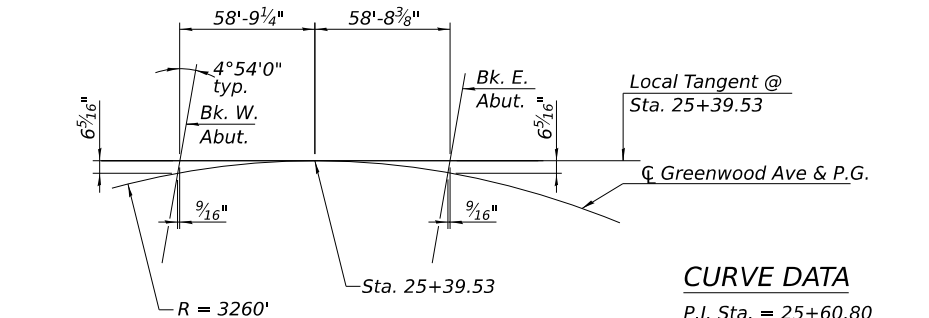
GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Slipforming of the parapets is not allowed.
3. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
4. Commonwealth Edison (ComEd) overhead power line and towers exist nearby and cross the proposed improvement. The Contractor shall coordinate with ComEd by providing detailed staging plans that indicate equipment type (such as crane boom heights) and placement for ComEd review/approval prior to beginning construction activities.

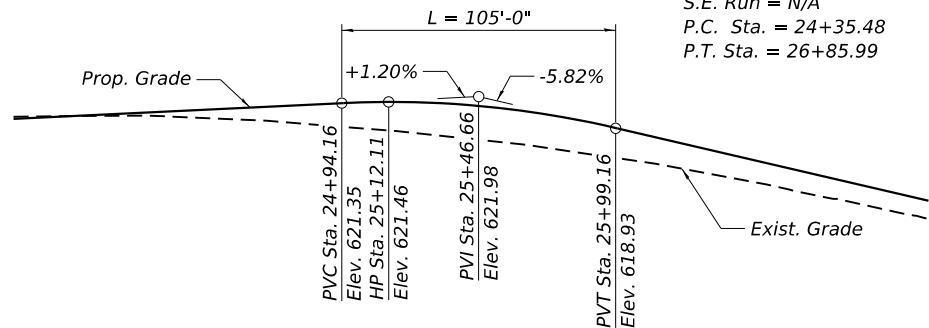


MINIMUM CONSTRUCTION
CLEARANCE ENVELOPE

(From BNSF/UPRR Guidelines
Dimensions perpendicular to tracks)



OFFSET SKETCH



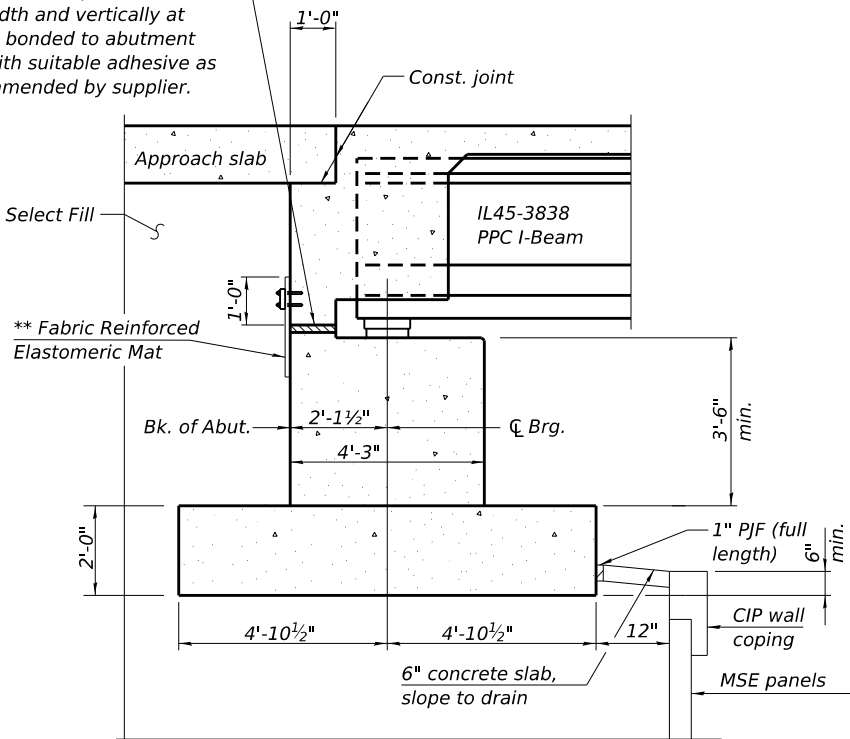
PROFILE GRADE

Along $\text{\textcircled{C}}$ Greenwood Ave.

INDEX OF SHEETS

- S-01 General Plan and Elevation
- S-02 General Data
- S-03 Existing Structure Removal Plan & Elevation
- S-04 Substructure Removal (Sheet 1 of 2)
- S-05 Substructure Removal (Sheet 2 of 2)
- S-06 Top of Slab Elevations Layout
- S-07 Top of Slab Elevations (Sheet 1 of 2)
- S-08 Top of Slab Elevations (Sheet 2 of 2)
- S-09 Top of West Approach Slab Layout & Tables
- S-10 Top of East Approach Slab Layout & Tables
- S-11 Superstructure Plan and Cross Section
- S-12 Parapet Elevations
- S-13 West Abutment Diaphragm
- S-14 East Abutment Diaphragm
- S-15 Superstructure Details
- S-16 West Approach Slab Plan
- S-17 West Approach Slab Sections and Details
- S-18 East Approach Slab Plan
- S-19 East Approach Slab Sections and Details
- S-20 Parapet Railing Special Details
- S-21 Framing Plan
- S-22 IL45 Beam
- S-23 IL45 Beam Details
- S-24 Moment and Reaction Tables
- S-25 Bearing Details
- S-26 West Abutment Plan and Elevation
- S-27 West Abutment Details
- S-28 East Abutment Plan and Elevation
- S-29 East Abutment Details
- S-30 West MSE Wall Plan and Elevation
- S-31 East MSE Wall Plan and Elevation
- S-32 MSE Wall Details
- S-33 Metal Shell Pile Details
- S-34 Boring Log (Sheet 1 of 2)
- S-35 Boring Log (Sheet 2 of 2)

2" PJF (per Article 1051.09 of the Standard Specifications) full width and vertically at edges bonded to abutment cap with suitable adhesive as recommended by supplier.



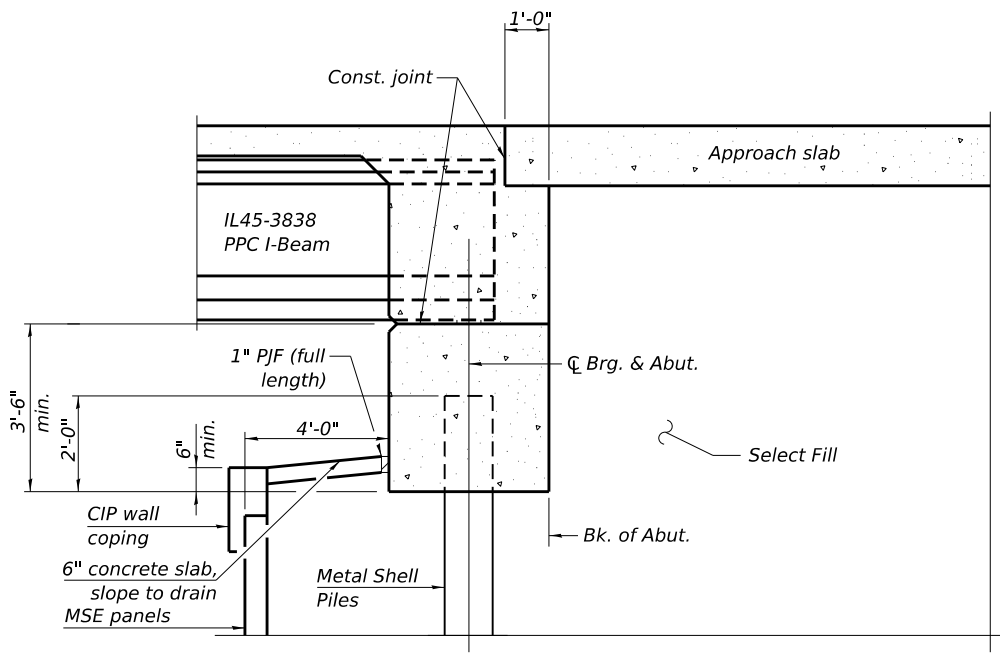
SECTION THRU WEST SEMI-INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

** Fabric Reinforced Elastomeric Mat according to Section 1028 of the Standard Specifications and installed according to applicable requirements of Article 520.09 of the Standard Specifications. Fabric mat shall be 24" wide and attached full width and vertically at edges to the abutment cap with a 3/8" x 5" galvanized plate per Article 509.05 and 1/2" $\text{\textcircled{O}}$ stainless steel expansion bolts with nuts and washers at 12" cts. according to Article 1006.29(d) of the Standard Specifications. Cost included with Concrete Superstructure.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	SUPER	SUB	TOTAL QUANTITY
Removal Of Existing Structures	Each		1	1
Slope Wall Removal	Sq Yd		1108	1108
Protective Shield	Sq Yd	683		683
Structure Excavation	Cu Yd		5548	5548
Concrete Structures	Cu Yd	51.9	198.6	250.5
Concrete Superstructure	Cu Yd	502.1		502.1
Bridge Deck Grooving	Sq Yd	1,114		1,114
Protective Coat	Sq Yd	1,748		1,748
Concrete Superstructure (Approach Slab)	Cu Yd	231.5		231.5
Furnishing And Erecting Precast Prestressed Concrete Beams, IL45	Foot	1491		1491
Reinforcement Bars, Epoxy Coated	Pound	182,830	20,970	203,800
Furnishing Metal Shell Piles 16" X 0.375"	Foot		780	780
Driving Piles	Foot		780	780
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		13	13
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each	13		13
Anchor Bolts, 1"	Each	26		26
Mechanically Stabilized Earth Retaining Wall	Sq Ft		7884	7884
Bar Terminators	Each		608	608
Parapet Railing (Special)	Foot	291		291
Approach Slab Removal	Sq Yd	392		392
Preformed Joint Filler	Foot		98	98



SECTION THRU EAST INTEGRAL ABUTMENT

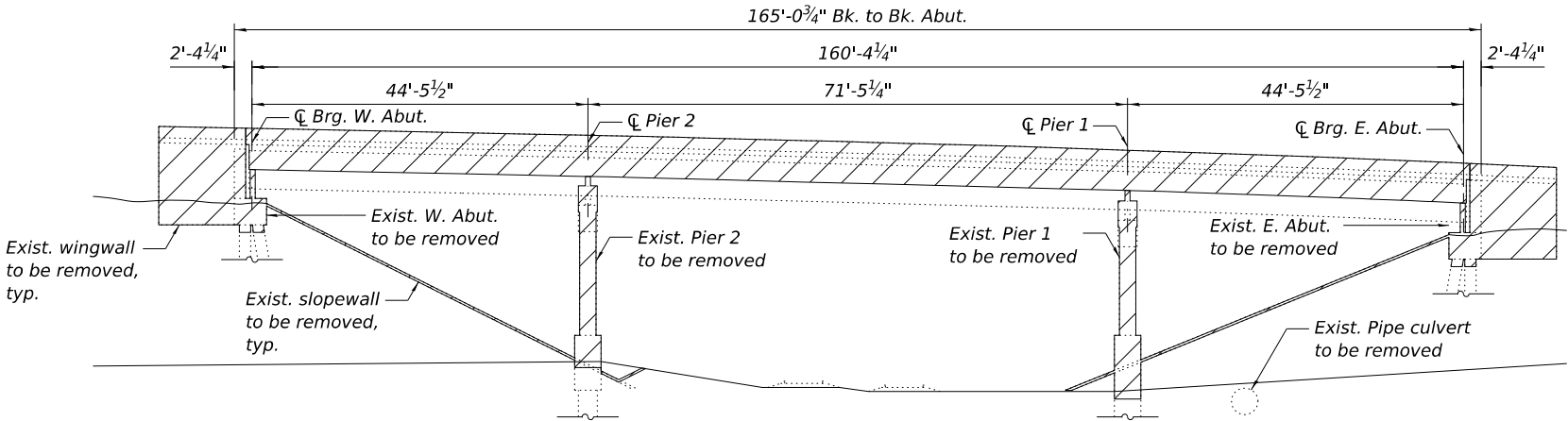
(Horiz. dim. @ Rt. L's)

BILL OF MATERIAL

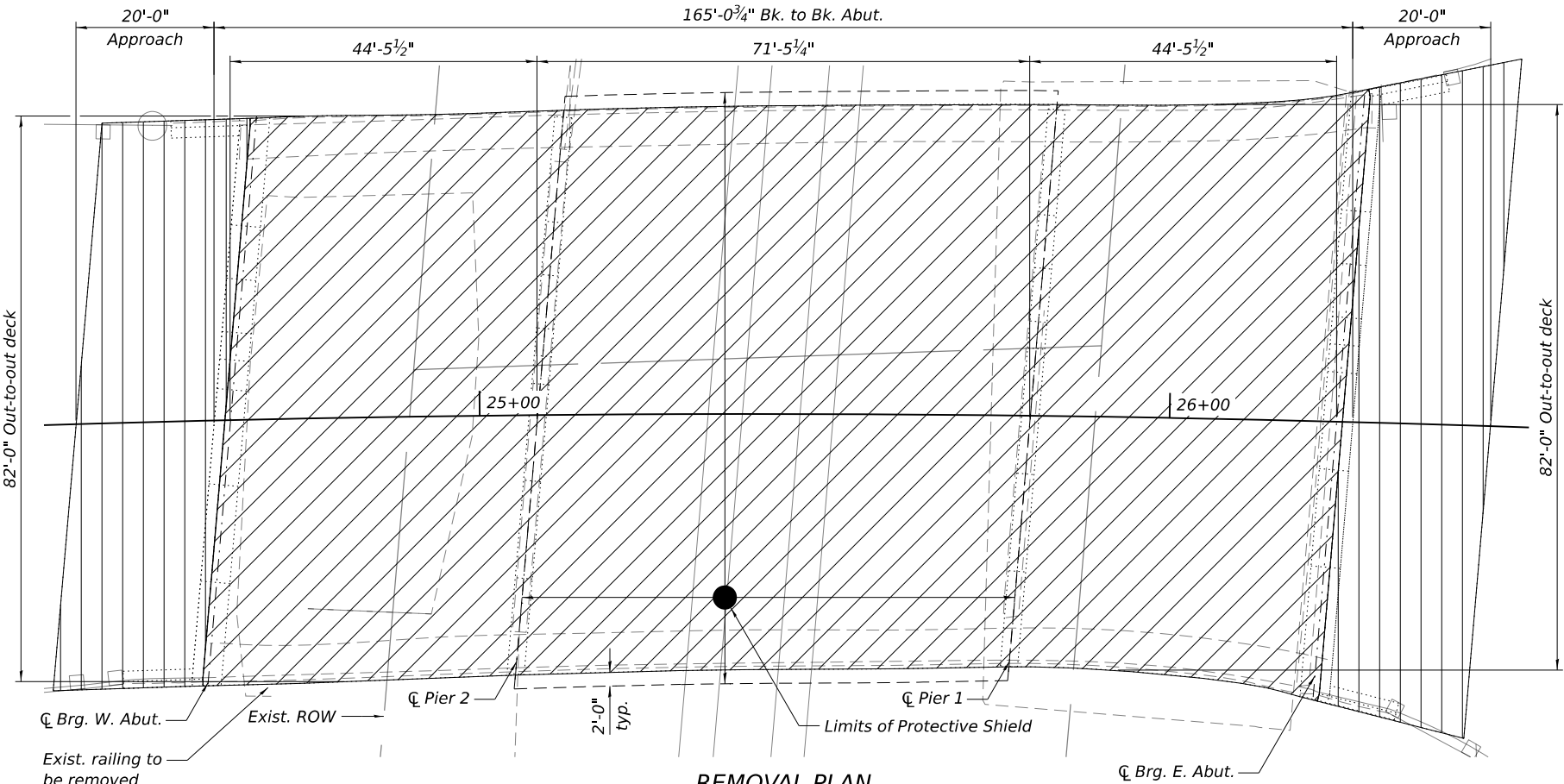
ITEM	UNIT	QUANTITY
Removal of Existing Structures	Each	1.0
Protective Shield	Sq. Yd.	683
Slope Wall Removal	Sq. Yd.	1108
Approach Slab Removal	Sq. Yd.	392

NOTES:

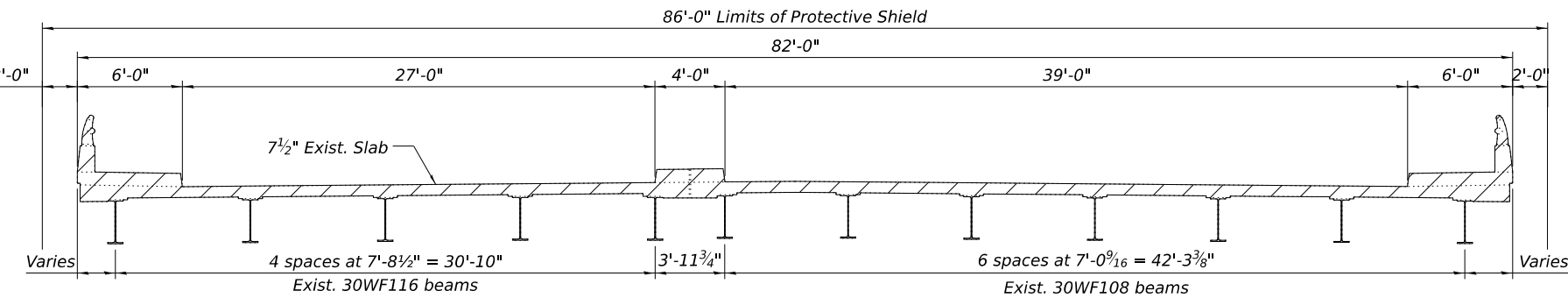
- Dimensions shown have been taken from historical design drawings and may not represent "as built" conditions. The Contractor must verify all dimensions in the field. Variation in the field dimensions shall not warrant additional compensation for Removal of Existing Structures.
- For substructure removal details, see Sheets S-04 and S-05.
- The Contractor shall take all necessary precautions to protect existing utilities, foundations and adjacent structures during removal/construction of the bridge.
- The existing metal handrail removal within the limits of construction, shall not paid separately but shall be included in the cost of Removal of Existing Structures.



REMOVAL ELEVATION



REMOVAL PLAN



REMOVAL CROSS SECTION

LEGEND:

- Removal of Existing Structures
- Approach Slab Removal
- Protective Shield

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PLOT DATE =	CHECKED - BLB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL PLAN & ELEVATION
STRUCTURE NO. 049-8001

SHEET S-03 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	28
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE REMOVAL (SHEET 1 OF 2)
STRUCTURE NO. 049-8001

SHEET S-04 OF S-35 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	29
CONTRACT NO. 61L19				
ILLINOIS		FED. AID PROJECT		

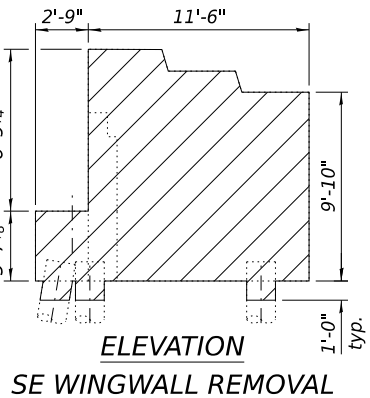
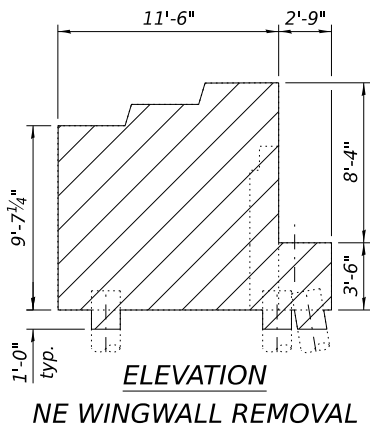
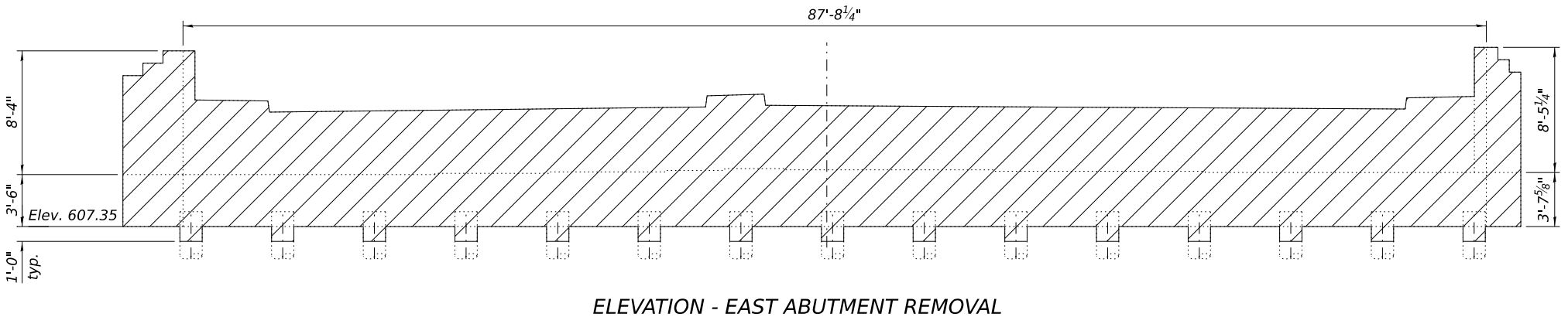
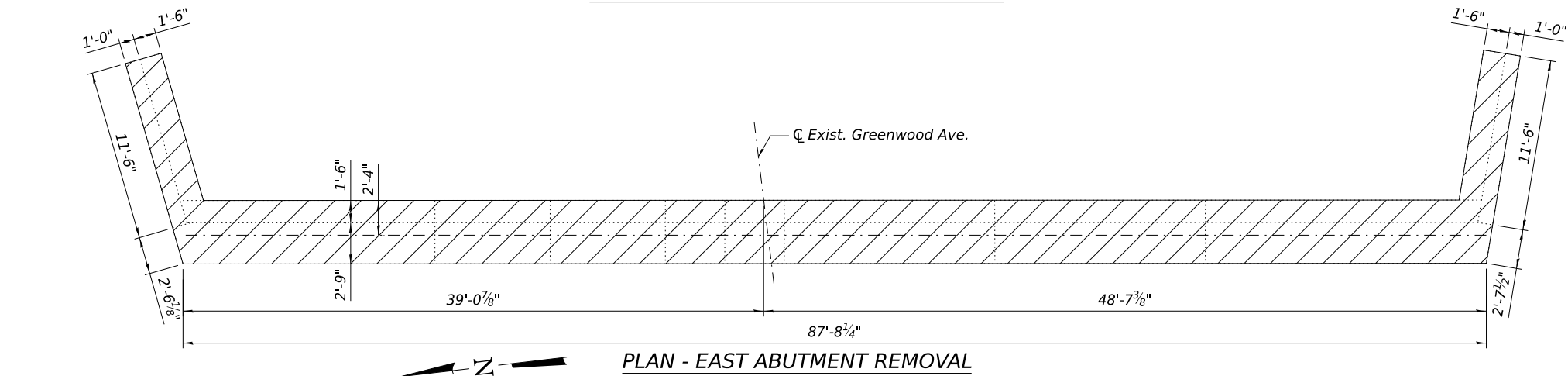
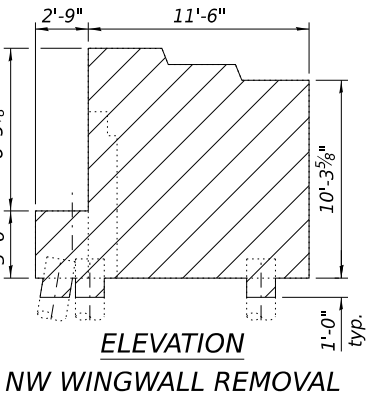
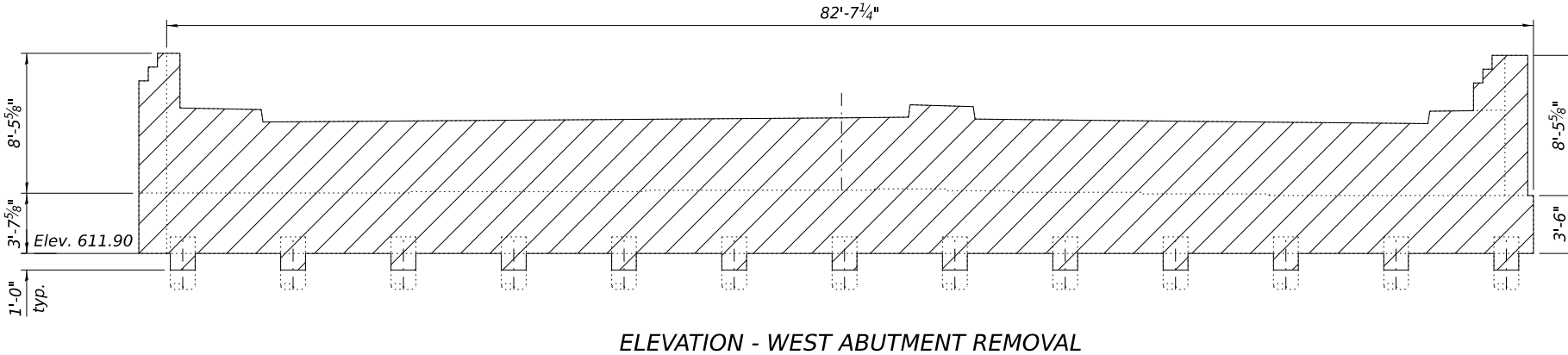
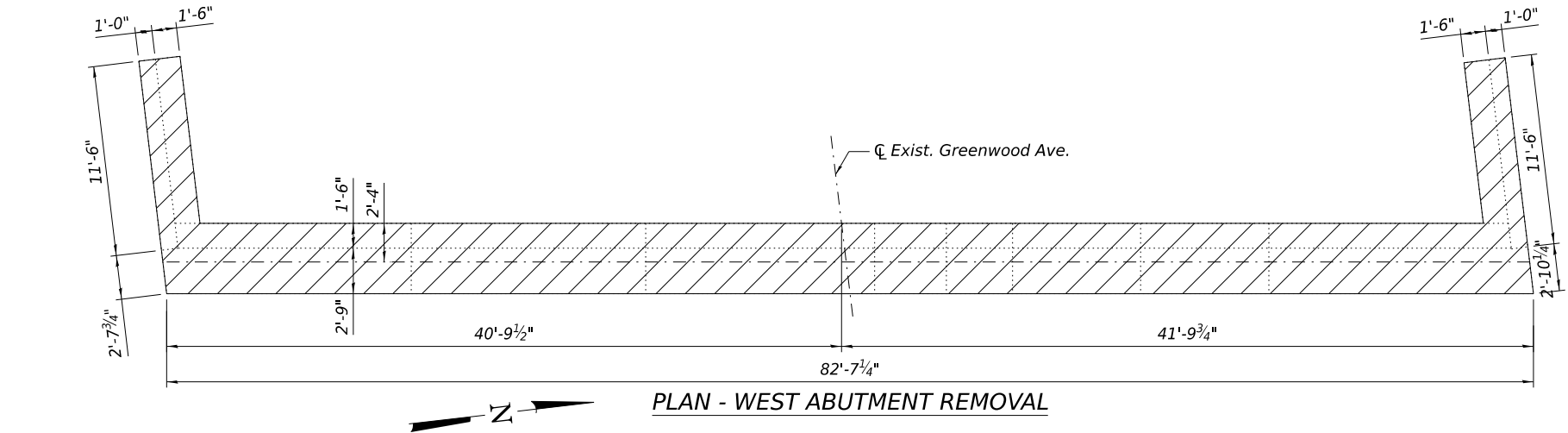
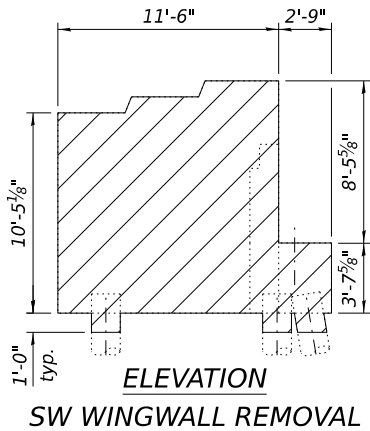
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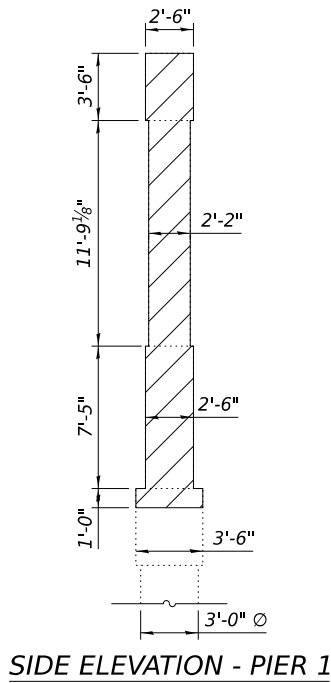


Removal of Existing Structures

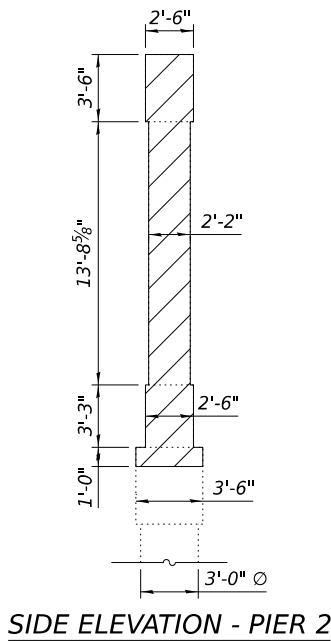
NOTE:

- For additional notes, see Sheet S-03.

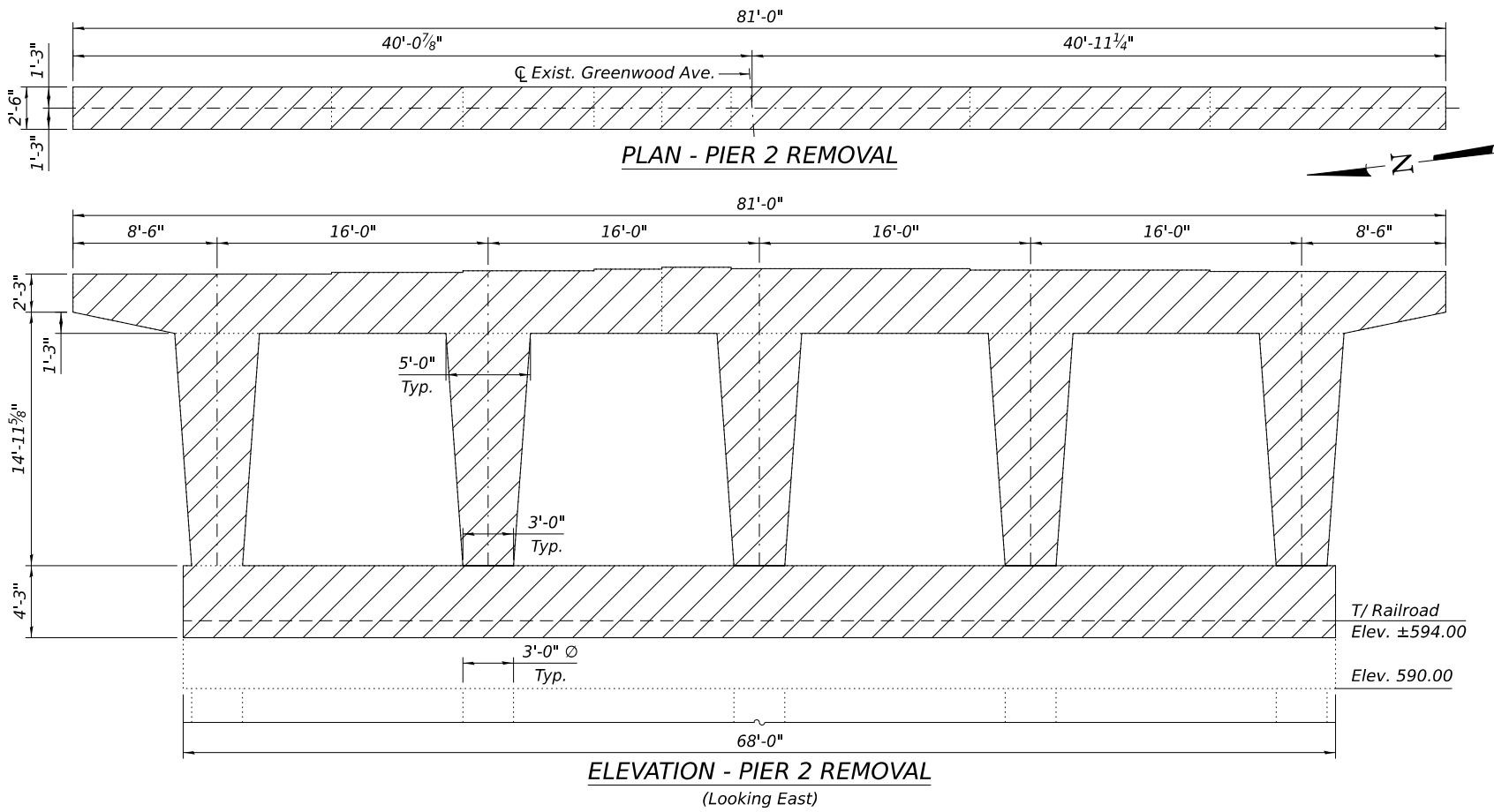
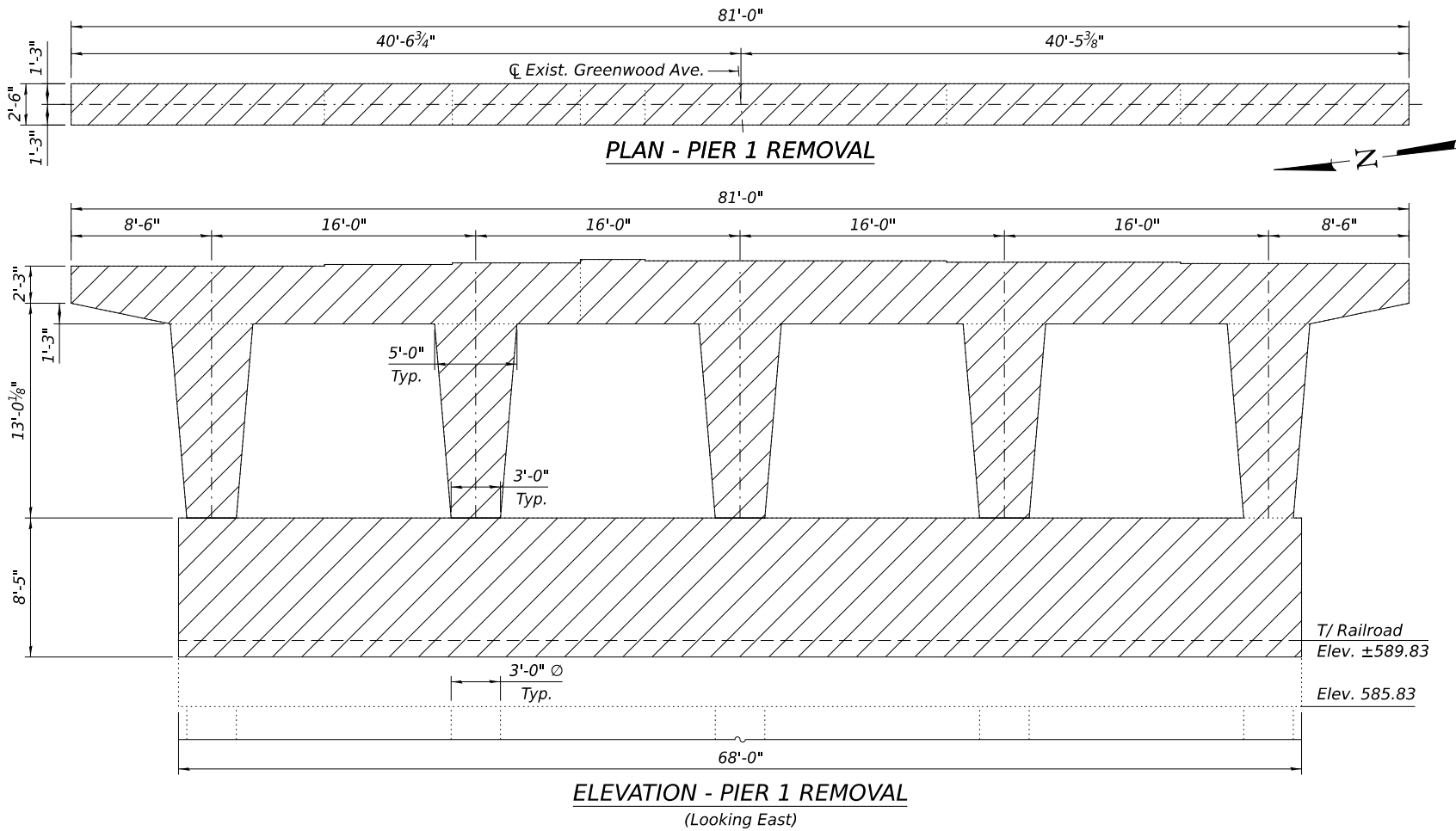




SIDE ELEVATION - PIER 1



SIDE ELEVATION - PIER 2



LEGEND:

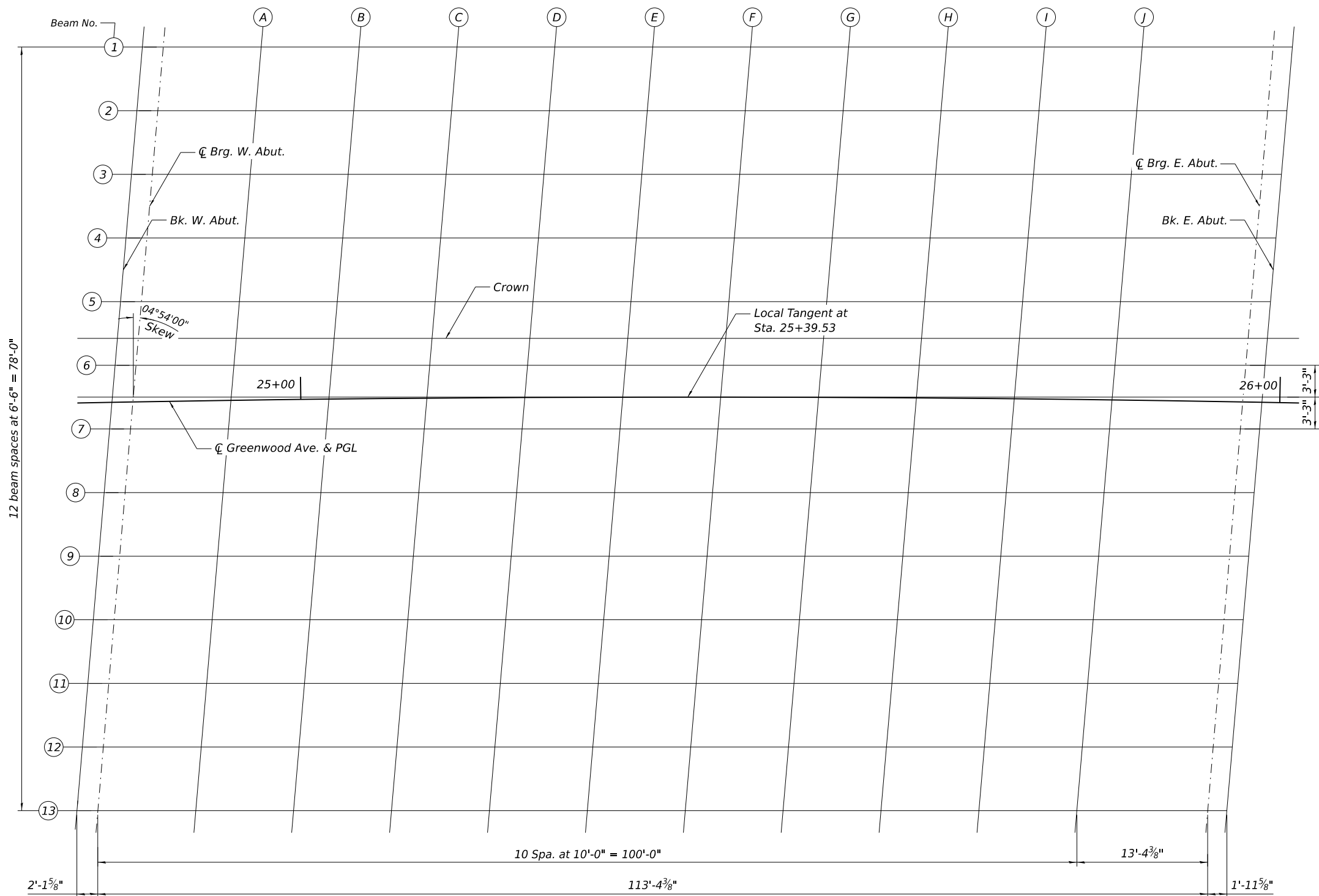
Removal of Existing Structures

NOTE:
1. For additional notes, see Sheet S-03.

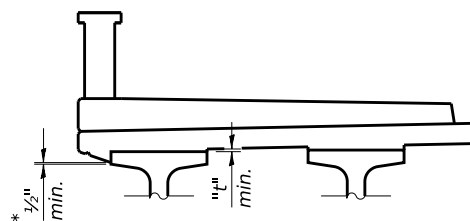
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BAXTER & WOODMAN Consulting Engineers	USER NAME =	DESIGNED - EBK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSTRUCTURE REMOVAL (SHEET 2 OF 2) STRUCTURE NO. 049-8001	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - BLB	REVISED -			3719	20-00243-00-BR	LAKE	78	30
	PLOT SCALE =	DRAWN - EBK	REVISED -			CONTRACT NO. 61L19				
	PLOT DATE =	CHECKED - BLB	REVISED -			ILLINOIS FED. AID PROJECT				
	SHEET S-05 OF S-35 SHEETS									

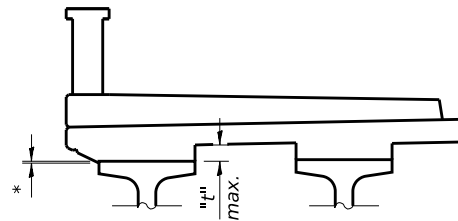
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PLAN



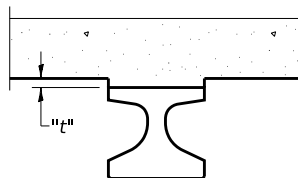
At Minimum Fillet



At Maximum Fillet

*Variable (not less than 1/2")

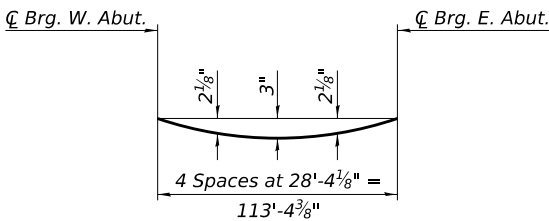
EXTERIOR BEAMS



INTERIOR BEAMS

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on the left. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets S-07 and S-08, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S-07 and S-08.

BAXTER & WOODMAN
Consulting Engineers

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS LAYOUT
STRUCTURE NO. 049-8001

SHEET S-06 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	31
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

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BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+83.82	-35.75	620.75	620.75
☐ Brg. W. Abut.	24+85.96	-35.75	620.77	620.77
A	24+95.95	-35.75	620.90	620.96
B	25+05.95	-35.75	620.97	621.10
C	25+15.95	-35.75	620.98	621.16
D	25+25.95	-35.75	620.92	621.13
E	25+35.95	-35.75	620.79	621.03
F	25+45.95	-35.75	620.60	620.85
G	25+55.95	-35.75	620.34	620.56
H	25+65.95	-35.75	620.01	620.21
I	25+75.95	-35.75	619.62	619.77
J	25+85.95	-35.75	619.16	619.25
☐ Brg. E. Abut.	25+99.31	-35.75	618.44	618.44
Bk. E. Abut.	26+01.28	-35.75	618.33	618.33

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+83.27	-29.25	620.87	620.87
☐ Brg. W. Abut.	24+85.41	-29.25	620.90	620.90
A	24+95.40	-29.25	621.02	621.08
B	25+05.40	-29.25	621.10	621.23
C	25+15.40	-29.25	621.11	621.30
D	25+25.40	-29.25	621.05	621.27
E	25+35.40	-29.25	620.93	621.17
F	25+45.40	-29.25	620.74	620.99
G	25+55.40	-29.25	620.49	620.71
H	25+65.40	-29.25	620.16	620.36
I	25+75.40	-29.25	619.77	619.92
J	25+85.40	-29.25	619.32	619.40
☐ Brg. E. Abut.	25+98.76	-29.25	618.60	618.60
Bk. E. Abut.	26+00.73	-29.25	618.49	618.49

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+82.71	-22.75	621.00	621.00
☐ Brg. W. Abut.	24+84.85	-22.75	621.02	621.02
A	24+94.84	-22.75	621.14	621.21
B	25+04.84	-22.75	621.23	621.35
C	25+14.84	-22.75	621.24	621.43
D	25+24.84	-22.75	621.19	621.40
E	25+34.84	-22.75	621.07	621.31
F	25+44.84	-22.75	620.88	621.13
G	25+54.84	-22.75	620.63	620.85
H	25+64.84	-22.75	620.31	620.51
I	25+74.84	-22.75	619.93	620.08
J	25+84.84	-22.75	619.47	619.56
☐ Brg. E. Abut.	25+98.20	-22.75	618.77	618.77
Bk. E. Abut.	26+00.17	-22.75	618.65	618.65

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+82.15	-16.25	621.12	621.12
☐ Brg. W. Abut.	24+84.29	-16.25	621.14	621.14
A	24+94.28	-16.25	621.27	621.33
B	25+04.28	-16.25	621.35	621.48
C	25+14.28	-16.25	621.37	621.56
D	25+24.28	-16.25	621.32	621.53
E	25+34.28	-16.25	621.21	621.45
F	25+44.28	-16.25	621.03	621.27
G	25+54.28	-16.25	620.78	621.00
H	25+64.28	-16.25	620.46	620.66
I	25+74.28	-16.25	620.08	620.23
J	25+84.28	-16.25	619.63	619.72
☐ Brg. E. Abut.	25+97.64	-16.25	618.93	618.93
Bk. E. Abut.	25+99.61	-16.25	618.81	618.81

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+81.60	-9.75	621.24	621.24
☐ Brg. W. Abut.	24+83.74	-9.75	621.27	621.27
A	24+93.73	-9.75	621.39	621.45
B	25+03.73	-9.75	621.48	621.61
C	25+13.73	-9.75	621.50	621.69
D	25+23.73	-9.75	621.46	621.67
E	25+33.73	-9.75	621.35	621.58
F	25+43.73	-9.75	621.17	621.41
G	25+53.73	-9.75	620.92	621.14
H	25+63.73	-9.75	620.61	620.81
I	25+73.73	-9.75	620.23	620.38
J	25+83.73	-9.75	619.79	619.87
☐ Brg. E. Abut.	25+97.09	-9.75	619.09	619.09
Bk. E. Abut.	25+99.06	-9.75	618.98	618.98

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+81.27	-6.00	621.31	621.31
☐ Brg. W. Abut.	24+83.41	-6.00	621.34	621.34
A	24+93.40	-6.00	621.46	621.52
B	25+03.40	-6.00	621.55	621.68
C	25+13.40	-6.00	621.58	621.76
D	25+23.40	-6.00	621.54	621.75
E	25+33.40	-6.00	621.43	621.66
F	25+43.40	-6.00	621.25	621.50
G	25+53.40	-6.00	621.01	621.23
H	25+63.40	-6.00	620.70	620.89
I	25+73.40	-6.00	620.32	620.47
J	25+83.40	-6.00	619.88	619.96
☐ Brg. E. Abut.	25+96.76	-6.00	619.18	619.18
Bk. E. Abut.	25+98.73	-6.00	619.07	619.07

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+81.04	-3.25	621.26	621.26
☐ Brg. W. Abut.	24+83.18	-3.25	621.28	621.28
A	24+93.17	-3.25	621.40	621.46
B	25+03.17	-3.25	621.50	621.62
C	25+13.17	-3.25	621.52	621.71
D	25+23.17	-3.25	621.48	621.69
E	25+33.17	-3.25	621.37	621.61
F	25+43.17	-3.25	621.20	621.45
G	25+53.17	-3.25	620.96	621.18
H	25+63.17	-3.25	620.65	620.85
I	25+73.17	-3.25	620.28	620.43
J	25+83.17	-3.25	619.83	619.92
☐ Brg. E. Abut.	25+96.53	-3.25	619.14	619.14
Bk. E. Abut.	25+98.50	-3.25	619.03	619.03

LOCAL TANGENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+80.76	0.00	621.19	621.19
☐ Brg. W. Abut.	24+82.90	0.00	621.21	621.21
A	24+92.89	0.00	621.33	621.40
B	25+02.89	0.00	621.43	621.56
C	25+12.89	0.00	621.46	621.64
D	25+22.89	0.00	621.42	621.63
E	25+32.89	0.00	621.31	621.55
F	25+42.89	0.00	621.14	621.39
G	25+52.89	0.00	620.90	621.12
H	25+62.89	0.00	620.60	620.79
I	25+72.89	0.00	620.22	620.37
J	25+82.89	0.00	619.78	619.87
☐ Brg. E. Abut.	25+96.25	0.00	619.09	619.09
Bk. E. Abut.	25+98.22	0.00	618.98	618.98

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+80.48	3.25	621.12	621.12
☐ Brg. W. Abut.	24+82.62	3.25	621.14	621.14
A	24+92.61	3.25	621.26	621.33
B	25+02.61	3.25	621.36	621.49
C	25+12.61	3.25	621.39	621.58
D	25+22.61	3.25	621.36	621.57
E	25+32.61	3.25	621.25	621.49
F	25+42.61	3.25	621.08	621.33
G	25+52.61	3.25	620.84	621.06
H	25+62.61	3.25	620.54	620.73
I	25+72.61	3.25	620.17	620.32
J	25+82.61	3.25	619.73	619.82
☐ Brg. E. Abut.	25+95.97	3.25	619.04	619.04
Bk. E. Abut.	25+97.94	3.25	618.93	618.93

NOTE:
Stations and offsets for the bridge deck
are given relative to the Local Tangent.

MODEL: Default
FILE NAME: P:\WAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\Sheets\Structural\191414-ORD-508-TopDeck(Elev(Sh2).dgn

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+79.92	9.75	620.98	620.98
☐ Brg. W. Abut.	24+82.06	9.75	621.01	621.01
A	24+92.05	9.75	621.13	621.19
B	25+02.05	9.75	621.23	621.36
C	25+12.05	9.75	621.26	621.45
D	25+22.05	9.75	621.23	621.44
E	25+32.05	9.75	621.13	621.37
F	25+42.05	9.75	620.96	621.21
G	25+52.05	9.75	620.73	620.95
H	25+62.05	9.75	620.43	620.62
I	25+72.05	9.75	620.06	620.21
J	25+82.05	9.75	619.63	619.71
☐ Brg. E. Abut.	25+95.41	9.75	618.94	618.94
Bk. E. Abut.	25+97.38	9.75	618.83	618.83

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+79.37	16.25	620.85	620.85
☐ Brg. W. Abut.	24+81.51	16.25	620.87	620.87
A	24+91.50	16.25	620.99	621.05
B	25+01.50	16.25	621.10	621.22
C	25+11.50	16.25	621.13	621.32
D	25+21.50	16.25	621.10	621.32
E	25+31.50	16.25	621.01	621.24
F	25+41.50	16.25	620.84	621.09
G	25+51.50	16.25	620.61	620.83
H	25+61.50	16.25	620.32	620.51
I	25+71.50	16.25	619.95	620.10
J	25+81.50	16.25	619.52	619.61
☐ Brg. E. Abut.	25+94.86	16.25	618.84	618.84
Bk. E. Abut.	25+96.83	16.25	618.73	618.73

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+78.81	22.75	620.71	620.71
☐ Brg. W. Abut.	24+80.95	22.75	620.73	620.73
A	24+90.94	22.75	620.85	620.92
B	25+00.94	22.75	620.96	621.09
C	25+10.94	22.75	621.00	621.19
D	25+20.94	22.75	620.98	621.19
E	25+30.94	22.75	620.88	621.12
F	25+40.94	22.75	620.72	620.97
G	25+50.94	22.75	620.50	620.72
H	25+60.94	22.75	620.21	620.40
I	25+70.94	22.75	619.85	620.00
J	25+80.94	22.75	619.42	619.50
☐ Brg. E. Abut.	25+94.30	22.75	618.74	618.74
Bk. E. Abut.	25+96.27	22.75	618.63	618.63

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+78.25	29.25	620.57	620.57
☐ Brg. W. Abut.	24+80.39	29.25	620.60	620.60
A	24+90.38	29.25	620.72	620.78
B	25+00.38	29.25	620.83	620.95
C	25+10.38	29.25	620.87	621.06
D	25+20.38	29.25	620.85	621.06
E	25+30.38	29.25	620.76	621.00
F	25+40.38	29.25	620.61	620.85
G	25+50.38	29.25	620.38	620.60
H	25+60.38	29.25	620.09	620.29
I	25+70.38	29.25	619.74	619.89
J	25+80.38	29.25	619.31	619.40
☐ Brg. E. Abut.	25+93.74	29.25	618.64	618.64
Bk. E. Abut.	25+95.71	29.25	618.54	618.54

BEAM 12

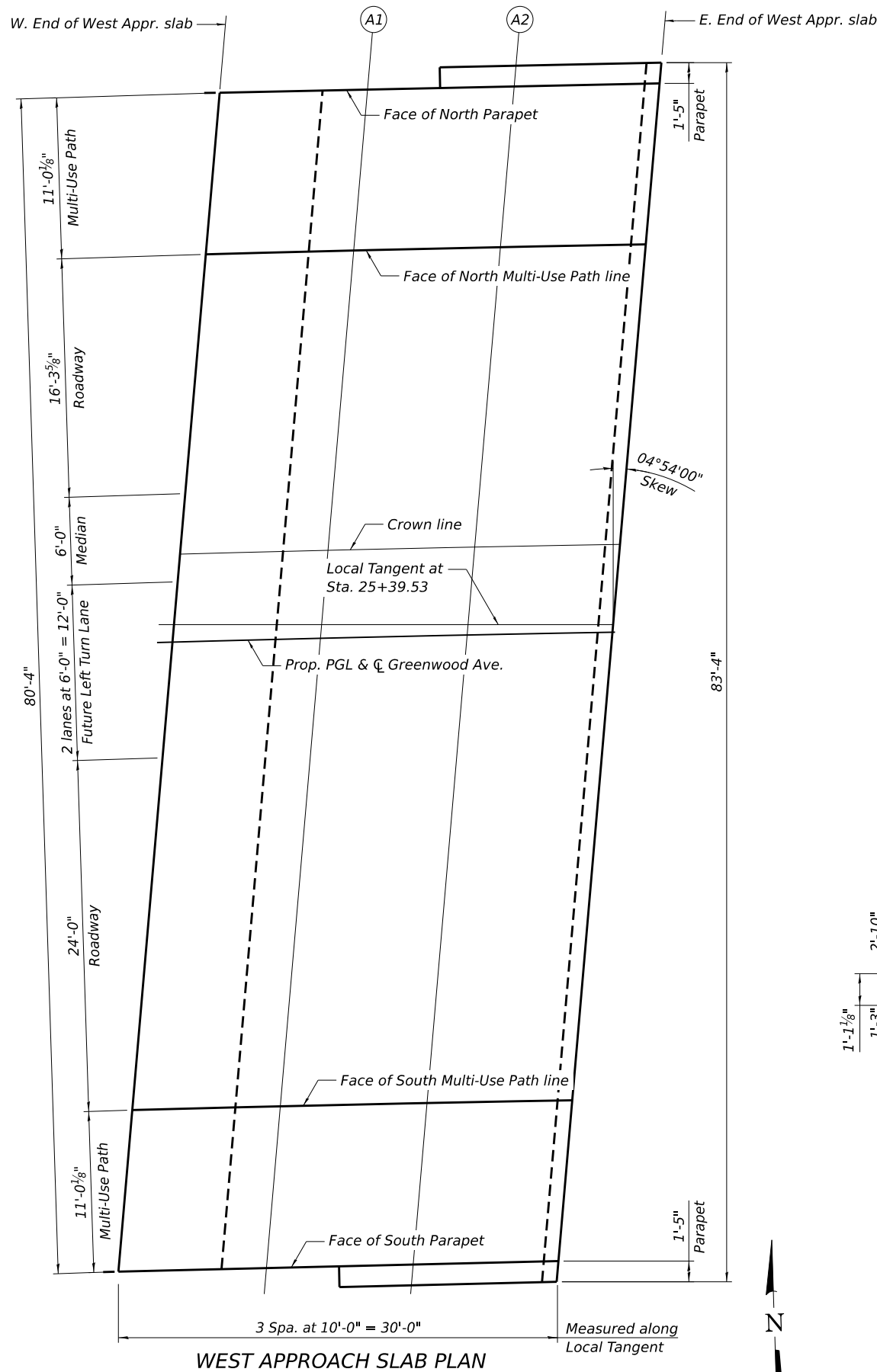
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+77.70	35.75	620.43	620.43
☐ Brg. W. Abut.	24+79.84	35.75	620.46	620.46
A	24+89.83	35.75	620.58	620.64
B	24+99.83	35.75	620.69	620.82
C	25+09.83	35.75	620.74	620.93
D	25+19.83	35.75	620.72	620.93
E	25+29.83	35.75	620.64	620.88
F	25+39.83	35.75	620.49	620.73
G	25+49.83	35.75	620.27	620.49
H	25+59.83	35.75	619.98	620.18
I	25+69.83	35.75	619.63	619.78
J	25+79.83	35.75	619.21	619.30
☐ Brg. E. Abut.	25+93.19	35.75	618.55	618.55
Bk. E. Abut.	25+95.16	35.75	618.44	618.44

BEAM 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	24+77.14	42.25	620.30	620.30
☐ Brg. W. Abut.	24+79.28	42.25	620.32	620.32
A	24+89.27	42.25	620.44	620.51
B	24+99.27	42.25	620.56	620.69
C	25+09.27	42.25	620.61	620.80
D	25+19.27	42.25	620.60	620.81
E	25+29.27	42.25	620.51	620.75
F	25+39.27	42.25	620.37	620.61
G	25+49.27	42.25	620.15	620.37
H	25+59.27	42.25	619.87	620.06
I	25+69.27	42.25	619.52	619.67
J	25+79.27	42.25	619.10	619.19
☐ Brg. E. Abut.	25+92.63	42.25	618.45	618.45
Bk. E. Abut.	25+94.60	42.25	618.34	618.34

NOTE:
Stations and offsets for the bridge deck
are given relative to the Local Tangent.

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FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. slab	24+55.83	-37.45	620.89
A1	24+65.74	-37.42	621.01
A2	24+75.64	-37.42	621.13
E. End of West Appr. slab	24+85.55	-37.45	621.25

LOCAL TANGENT LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. slab	24+51.78	-1.18	620.84
A1	24+61.77	-0.93	620.96
A2	24+71.77	-0.71	621.08
E. End of West Appr. slab	24+81.77	-0.51	621.20

FACE OF NORTH MULTI-USE PATH LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. slab	24+54.61	-26.43	620.88
A1	24+64.55	-26.44	620.99
A2	24+74.49	-26.46	621.11
E. End of West Appr. slab	24+84.43	-26.47	621.23

PGL GREENWOOD AVE.

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. slab	24+51.65	0.00	620.84
A1	24+61.67	0.00	620.96
A2	24+71.69	0.00	621.08
E. End of West Appr. slab	24+81.71	0.00	621.20

CROWN LINE

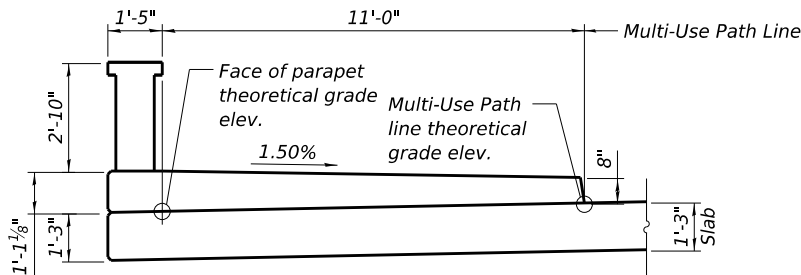
Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. slab	24+52.32	-6.00	620.84
A1	24+62.33	-6.00	620.97
A2	24+72.33	-6.00	621.09
E. End of West Appr. slab	24+82.33	-6.00	621.21

FACE OF SOUTH MULTI-USE PATH LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. slab	24+48.01	31.91	620.79
A1	24+58.13	31.92	620.92
A2	24+68.25	31.93	621.04
E. End of West Appr. slab	24+78.37	31.93	621.16

FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
W. End of West Appr. slab	24+46.73	42.92	620.78
A1	24+56.89	42.95	620.91
A2	24+67.05	42.95	621.02
E. End of West Appr. slab	24+77.21	42.92	621.15



SECTION THRU MULTI-USE PATH

NOTE:
Stations and offsets for approach slabs are given relative to C Greenwood Ave.

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Consulting Engineers

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

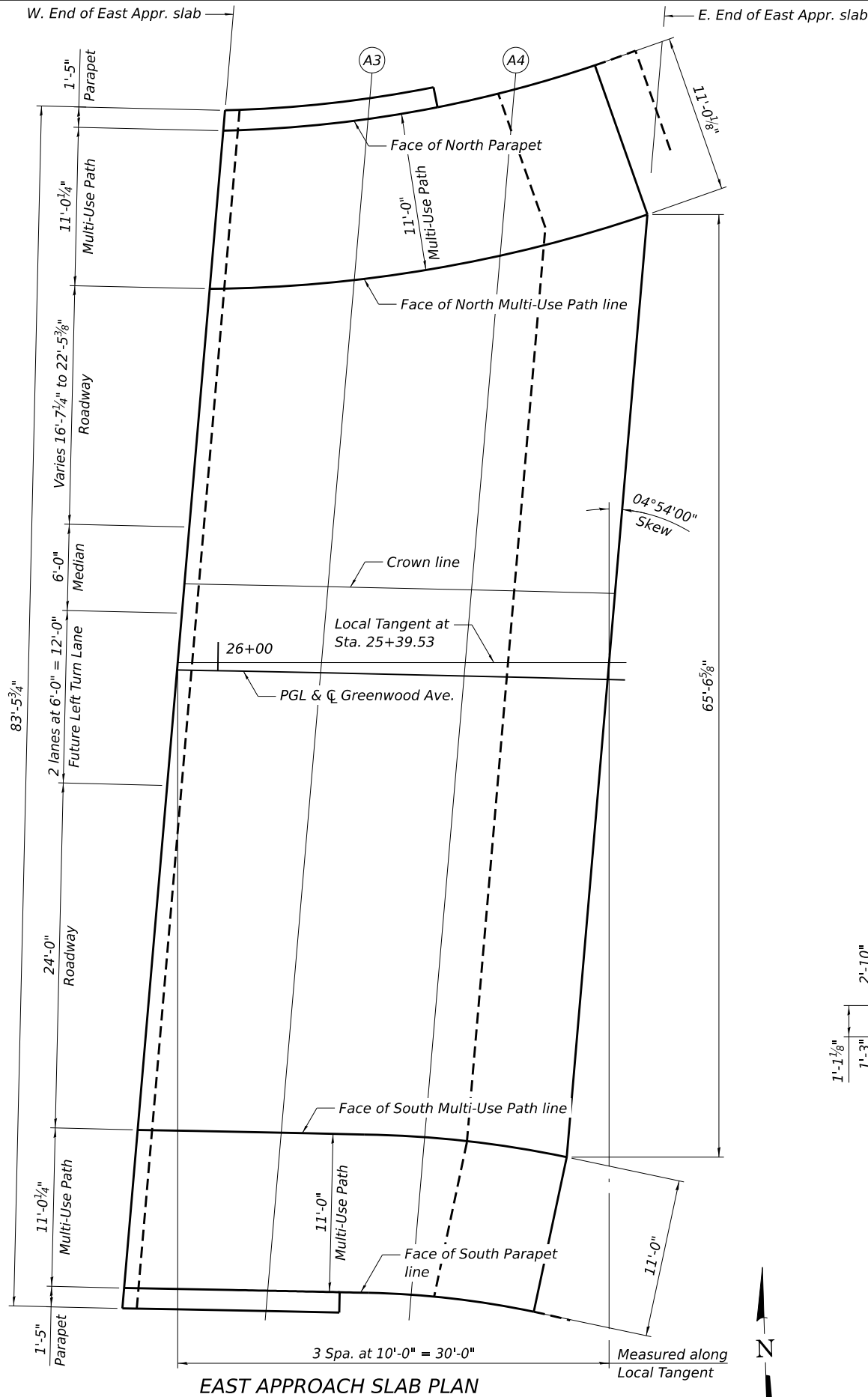
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB LAYOUT & TABLES
STRUCTURE NO. 049-8001

SHEET S-09 OF S-35 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	34
CONTRACT NO. 61L19				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. slab	25+99.70	-37.56	618.90
A3	26+09.63	-38.57	618.31
A4	26+19.64	-40.85	617.73
E. End of East Appr. slab	26+25.12	-42.69	617.42

LOCAL TANGENT LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. slab	25+97.21	-0.51	619.04
A3	26+07.21	-0.70	618.46
A4	26+17.20	-0.93	617.88
E. End of East Appr. slab	26+27.19	-1.18	617.29

FACE OF NORTH MULTI-USE PATH LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. slab	25+98.96	-26.54	618.94
A3	26+08.92	-27.35	618.35
A4	26+18.94	-29.27	617.77
E. End of East Appr. slab	26+29.01	-32.40	617.19

PGL GREENWOOD AVE.

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. slab	25+97.17	0.00	619.04
A3	26+07.16	0.00	618.46
A4	26+17.14	0.00	617.88
E. End of East Appr. slab	26+27.12	0.00	617.30

CROWN LINE

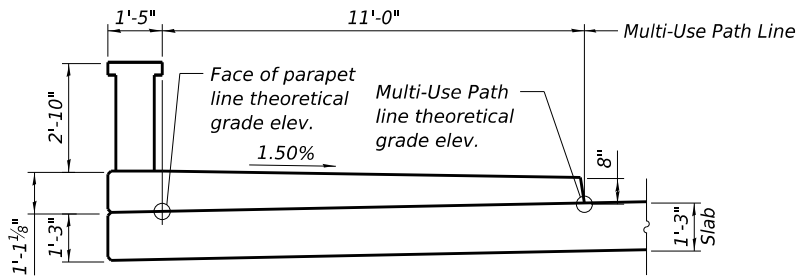
Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. slab	25+97.58	-6.00	619.02
A3	26+07.55	-6.00	618.44
A4	26+17.51	-6.00	617.85
E. End of East Appr. slab	26+27.48	-6.00	617.28

FACE OF SOUTH MULTI-USE PATH LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. slab	25+94.98	32.03	619.17
A3	26+05.06	32.04	618.58
A4	26+15.14	32.14	618.00
E. End of East Appr. slab	26+25.15	33.28	617.42

FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations
W. End of East Appr. slab	25+94.21	43.05	619.21
A3	26+04.33	43.05	618.63
A4	26+14.44	43.11	618.03
E. End of East Appr. slab	26+23.13	44.09	617.53



SECTION THRU MULTI-USE PATH

NOTE:
Stations and offsets for approach slabs are given relative to C Greenwood Ave.

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

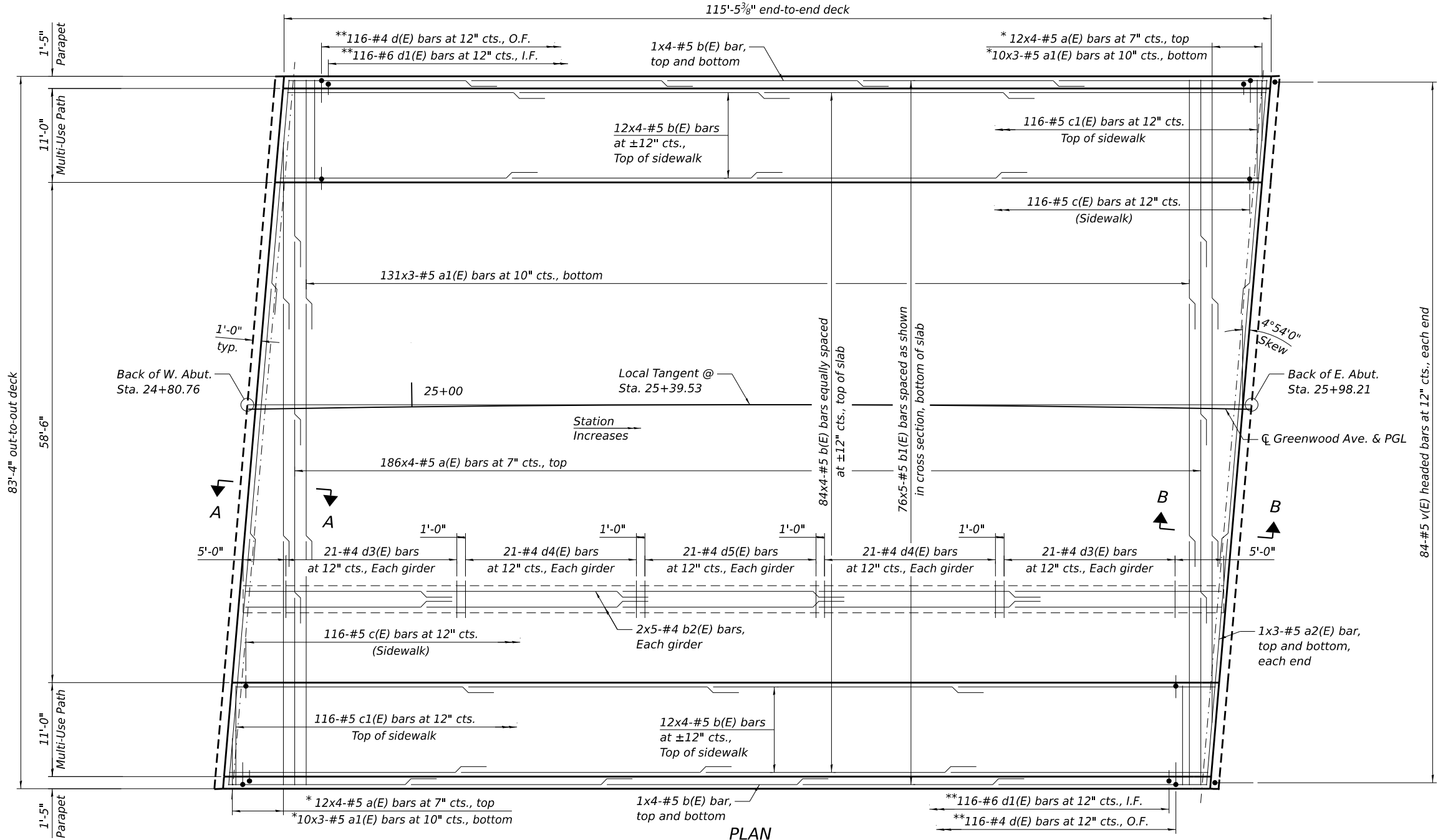
TOP OF EAST APPROACH SLAB LAYOUT & TABLES
STRUCTURE NO. 049-8001

SHEET S-10 OF S-35 SHEETS

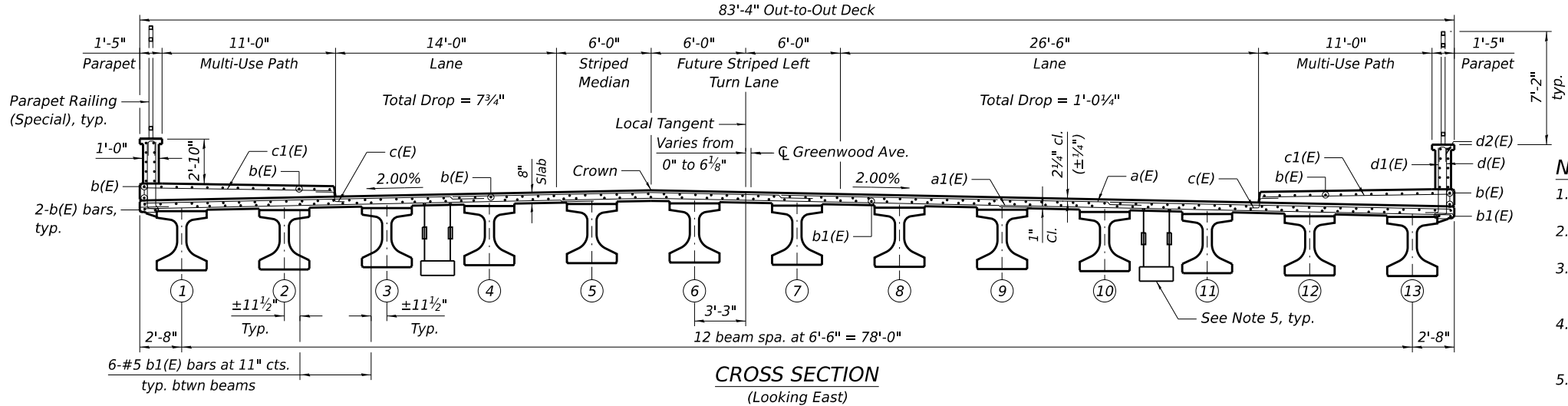
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	35
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

MINIMUM BAR LAP

#4 bar = 2'-5"
#5 bar = 3'-6"



PLAN



CROSS SECTION
(Looking East)

NOTES:

- See Sheet S-13 of S-35 for Section A-A.
- See Sheet S-14 of S-35 for Section B-B.
- See Sheet S-15 of S-35 for superstructure details and Bill of Material.
- Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
- See Lighting Plans for underpass luminaire details and locations.

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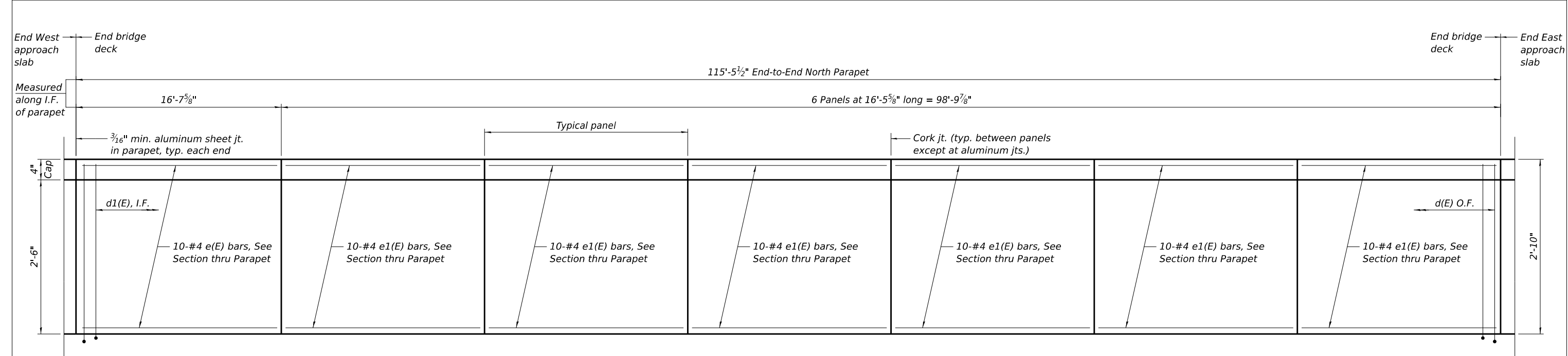
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

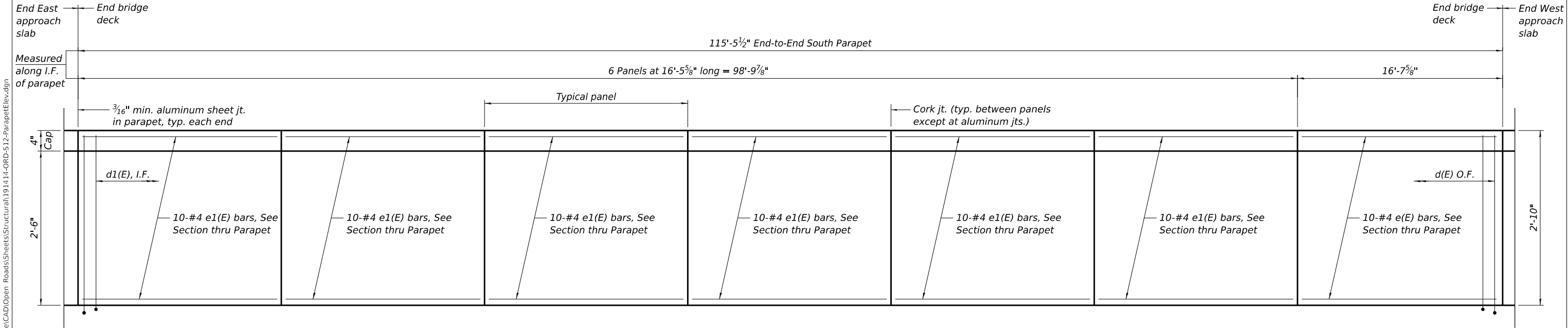
SUPERSTRUCTURE PLAN AND CROSS SECTION
STRUCTURE NO. 049-8001

SHEET S-11 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	36
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				



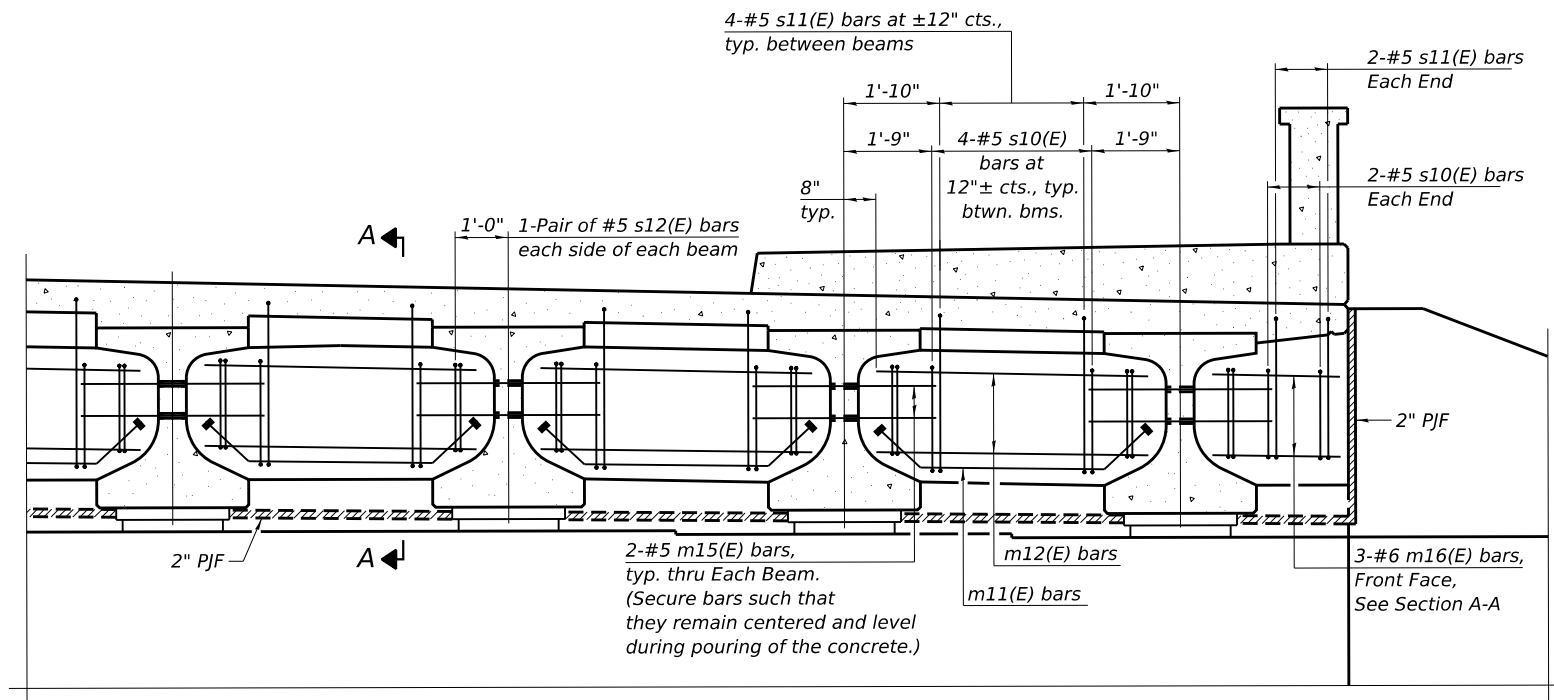
INSIDE ELEVATION OF NORTH PARAPET
(Looking North)



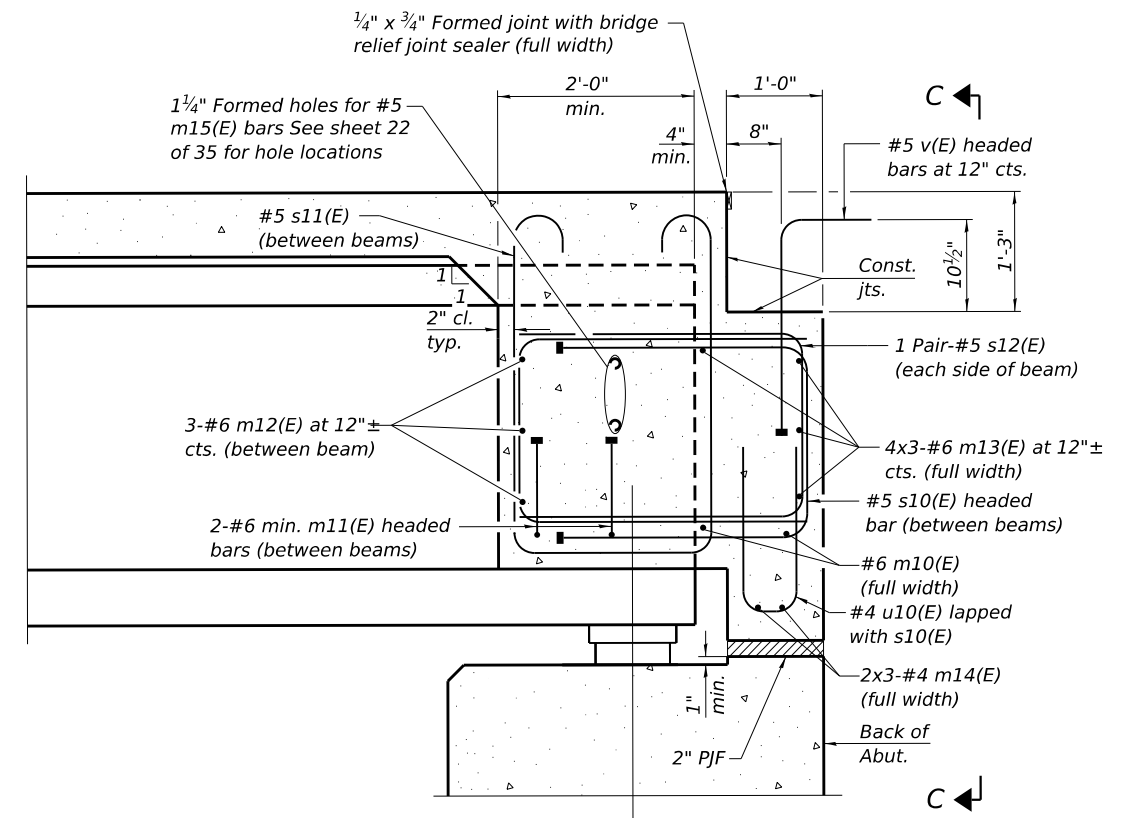
INSIDE ELEVATION OF SOUTH PARAPET
(Looking South)

MODEL: Default
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BAXTER & WOODMAN Consulting Engineers	USER NAME =		DESIGNED - EBK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PARAPET ELEVATIONS STRUCTURE NO. 049-8001	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SHEET S-12 OF S-35 SHEETS											



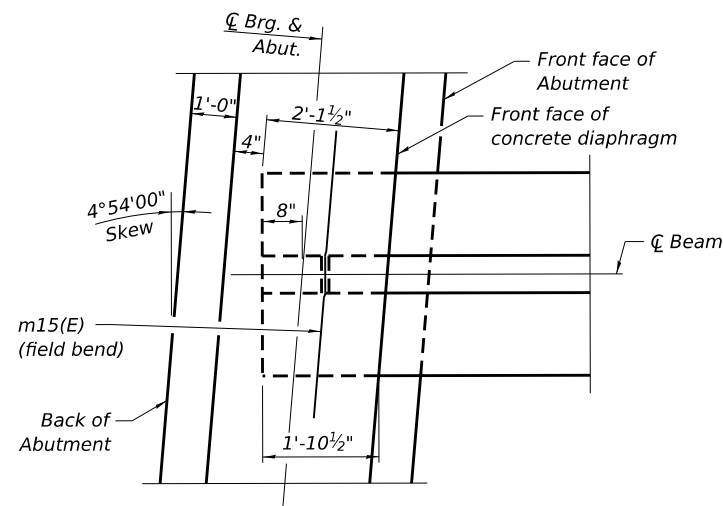
DIAPHRAGM AT WEST ABUTMENT



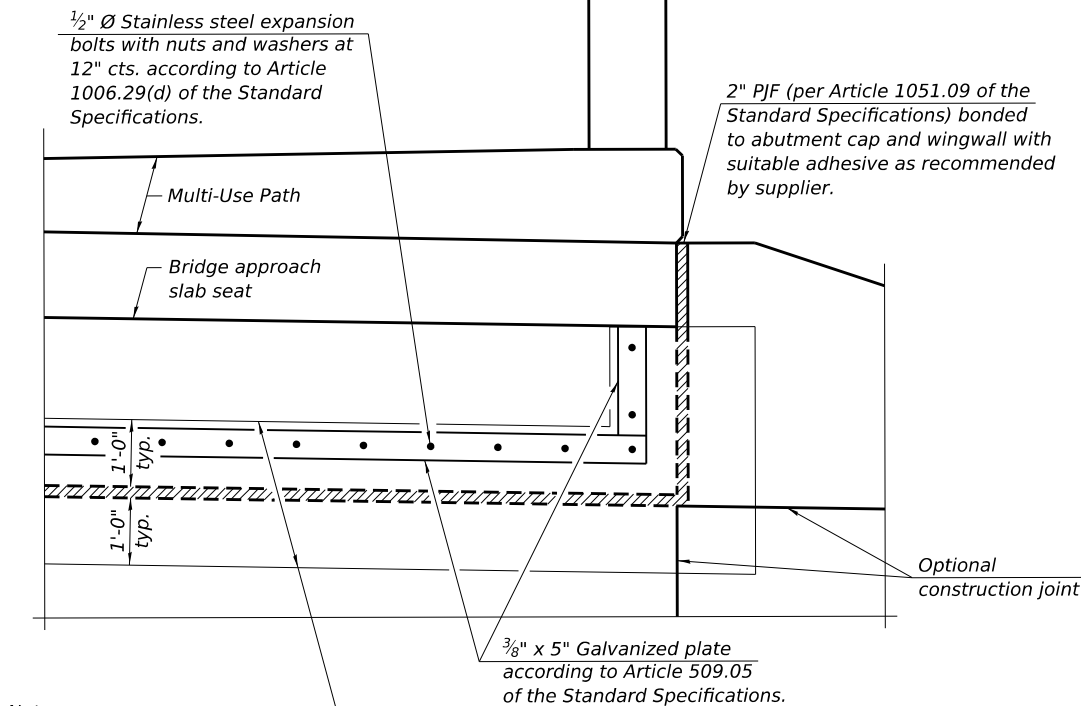
SECTION A-A
(at Rt. L's)

MINIMUM BAR LAP
#4 BAR = 2'-5"
#6 BAR = 3'-7"

- Notes:
- See sheet S-15 of S-35 for superstructure details and Bill of Material.
 - The s10(E), s11(E) and s12(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



PLAN AT ABUTMENT
(Showing bottom flange of beam)



VIEW C-C

Note:
Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.

Limits of fabric reinforced elastomeric mat according to Section 1028 of the Standard Specifications and installed according to applicable requirements of Article 520.09 of the Standard Specifications.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DIAPHRAGM
STRUCTURE NO. 049-8001

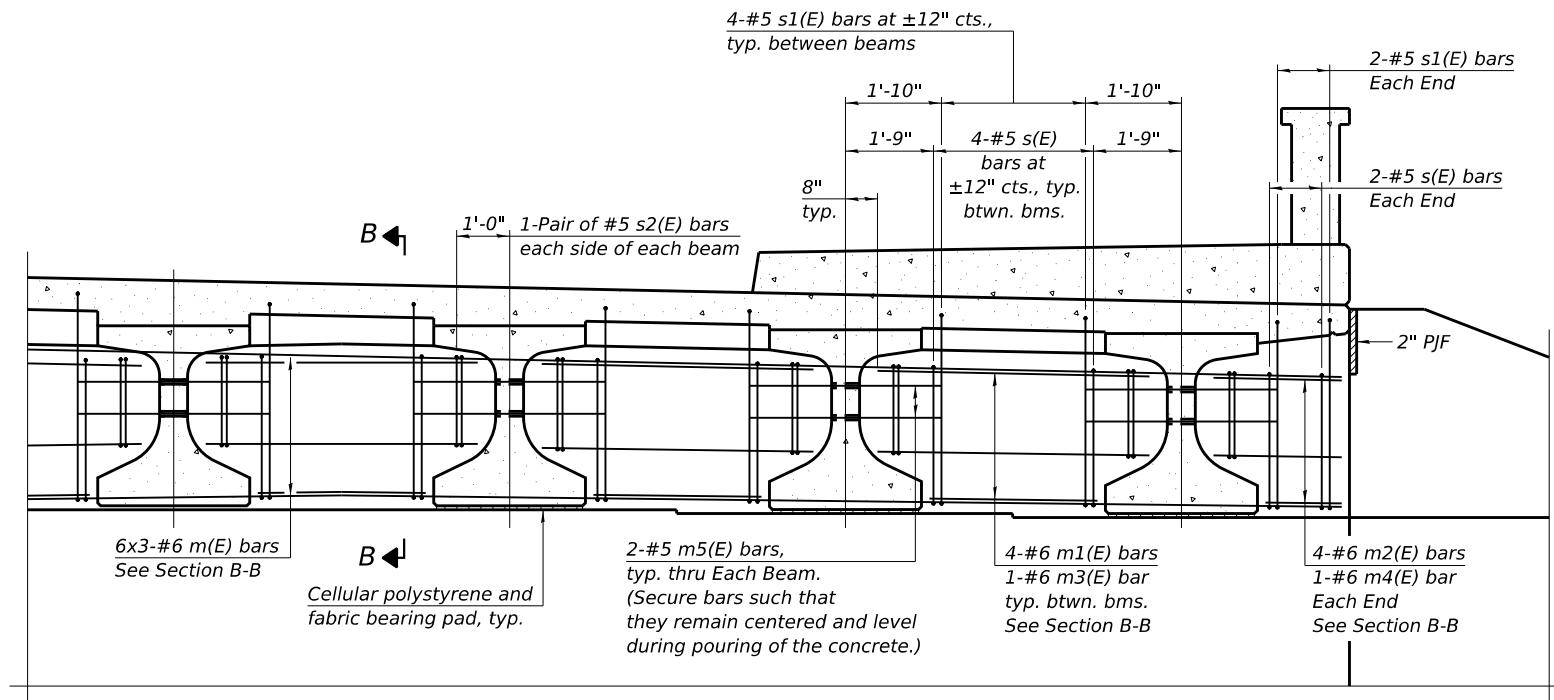
SHEET S-13 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	38
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

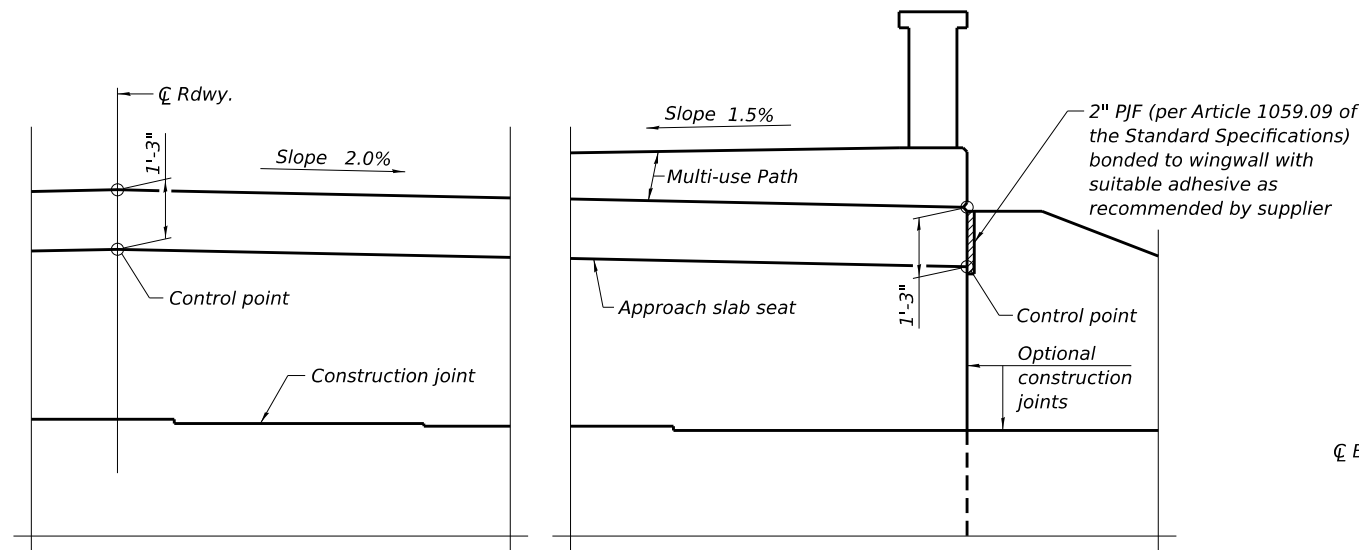
BAXTER & WOODMAN
Consulting Engineers

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PLOT DATE =	CHECKED - BLB	REVISED -

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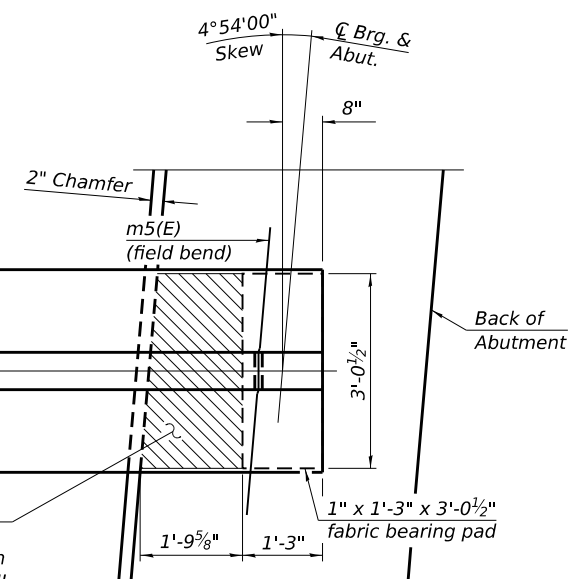


DIAPHRAGM AT EAST ABUTMENT

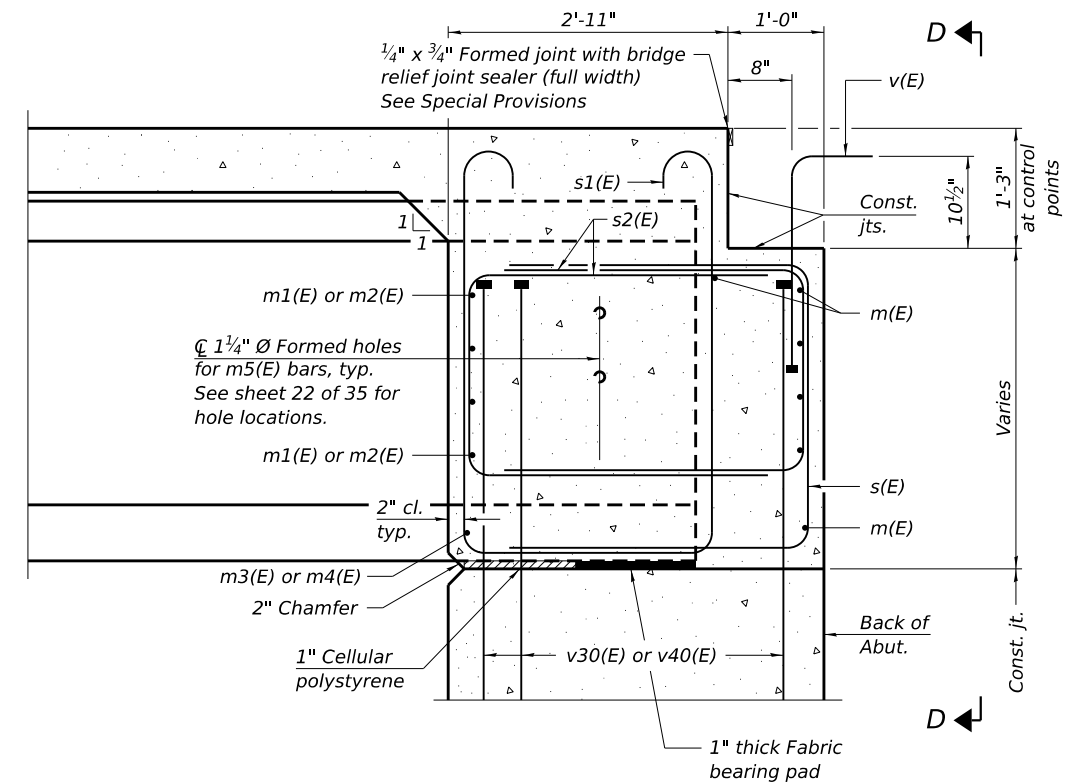


VIEW D-D

Cellular polystyrene according to ASTM C 578 (Types V, VII or XV). Provide slightly thicker piece than measured gap height to tightly fill the hatched area shown between abutment cap and bottom of beam.



PLAN AT ABUTMENT
(Showing bottom flange of beam)



SECTION B-B
(at Rt. End)

MINIMUM BAR LAP
#6 BAR = 3'-7"

- Notes:
- See sheet S-15 of S-35 for superstructure details and Bill of Material.
 - The s(E), s1(E) and s2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 - The approach slab seat shall have a constant slope determined from the control points shown.
 - Cost of cellular polystyrene is included with Concrete Superstructure.

BAXTER & WOODMAN
Consulting Engineers

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

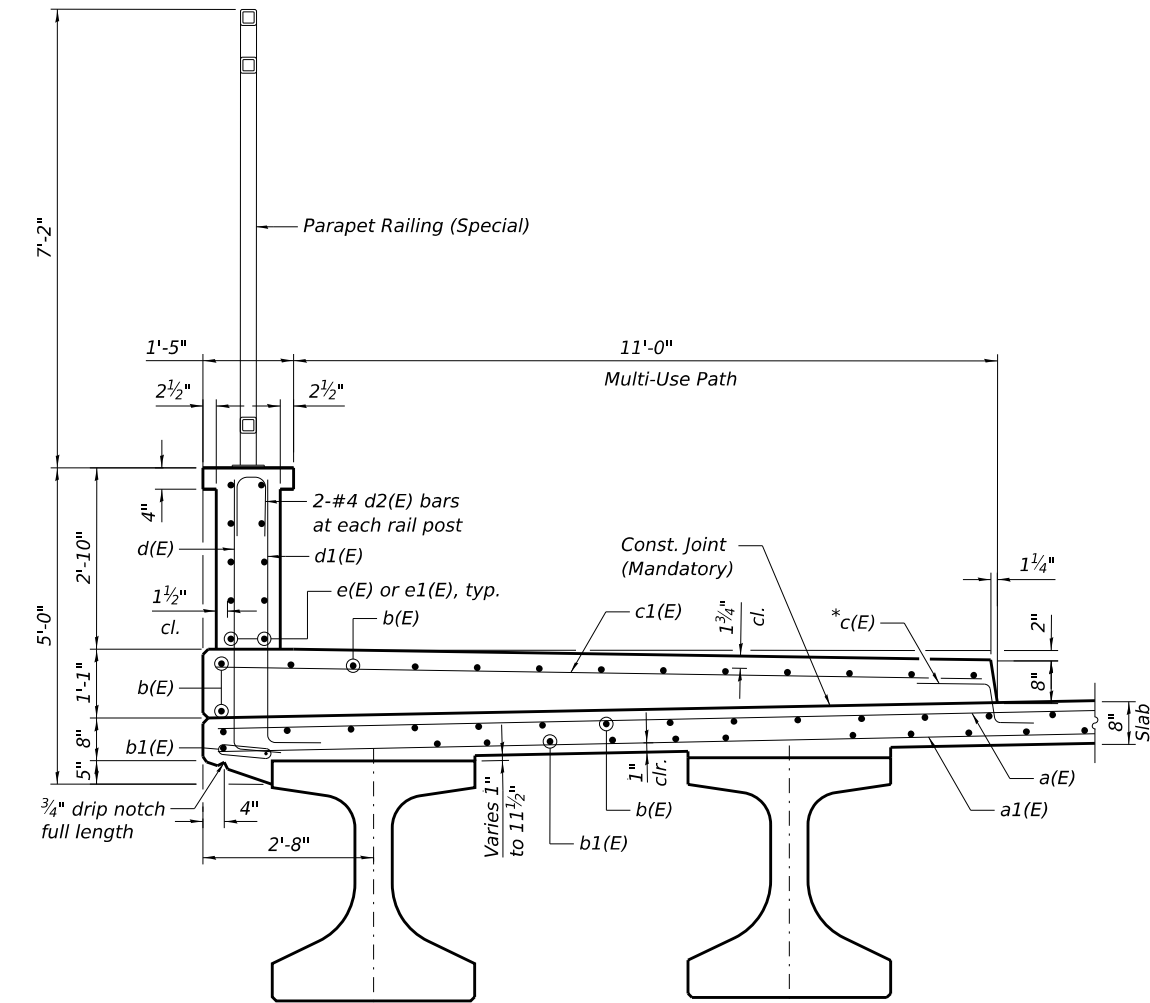
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DIAPHRAGM
STRUCTURE NO. 049-8001

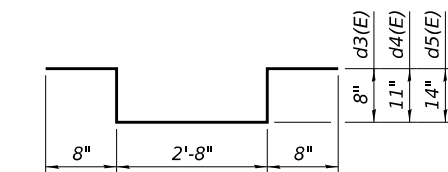
SHEET S-14 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	39
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

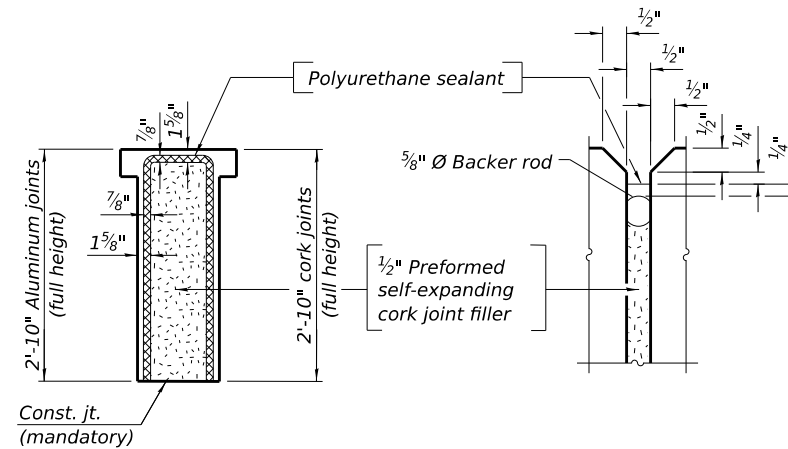
* In lieu of bottom leg, c(E) bars may be drilled and set according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6".



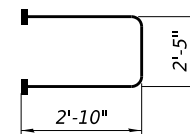
SECTION THRU PARAPET



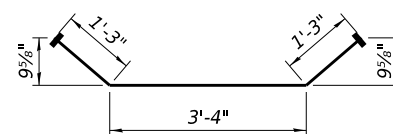
BARS $d3(E)$, $d4(E)$ & $d5(E)$



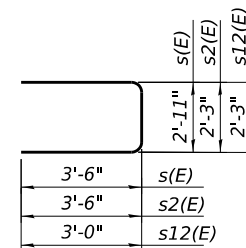
PARAPET JOINT DETAILS



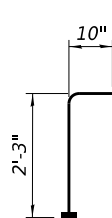
BARS s10(E)



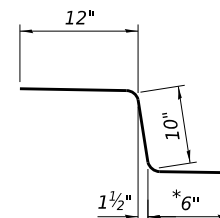
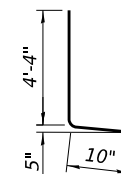
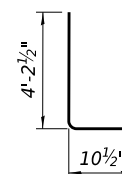
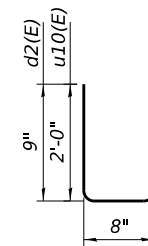
BAR m11(E)
(Headed 24-#6 Bar Terminators)



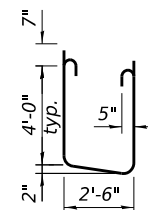
BARS $s(E)$, $s_2(E)$, & $s_{12}(E)$



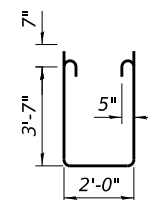
BAR v(E)
(Headed 168-#5 Bar Terminators)


$$BAR \ c(E)$$
 $BAR\ d(E)$ 
$$BAR\ d1(E)$$


BAR d2(E) & u10(E)



BAR s1(E)

 $BAR\ s11(E)$

SUPERSTRUCTURE
BILL OF MATERIAL

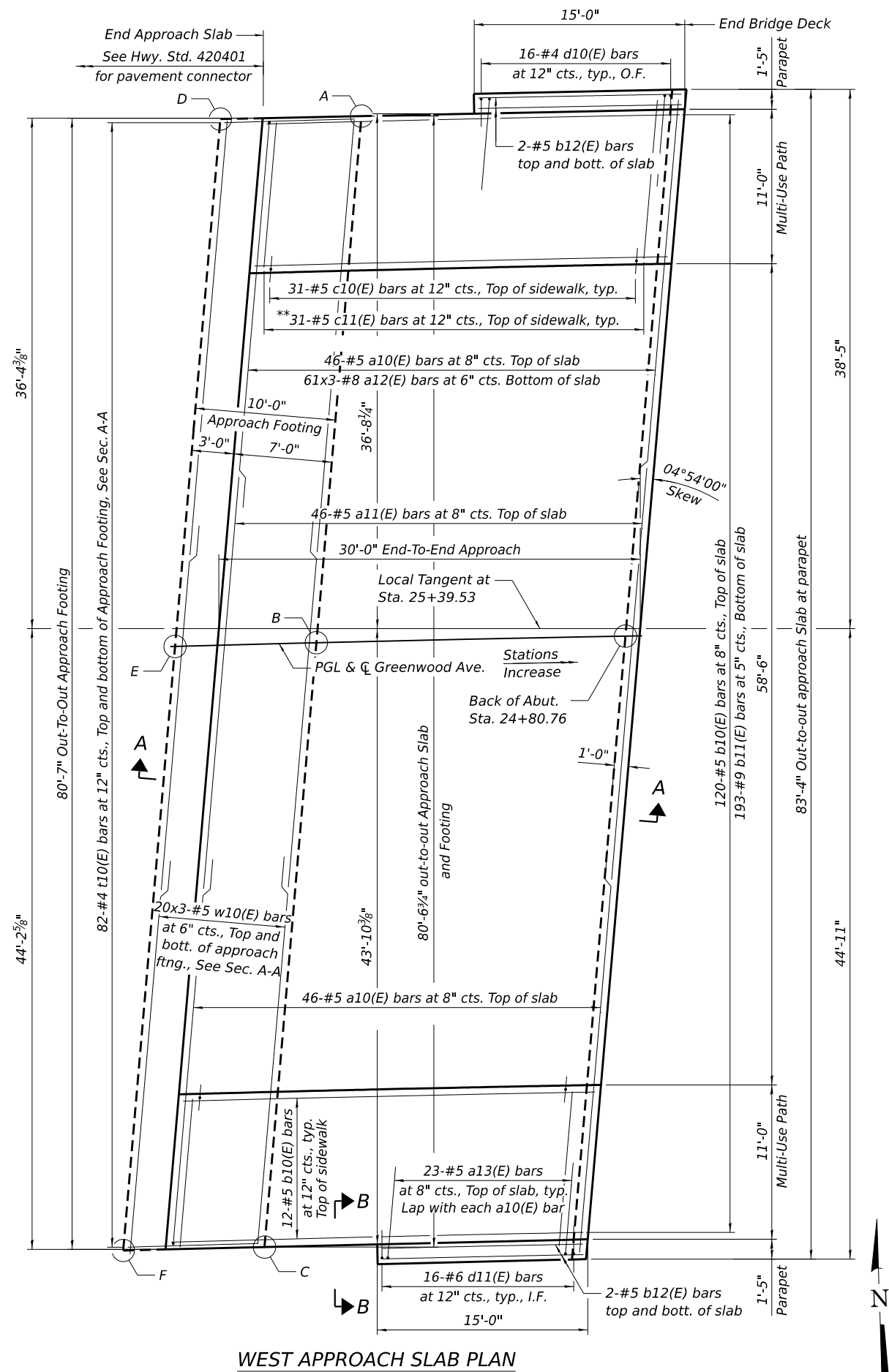
Bar	No.	Size	Length	Shape
a(E)	792	#5	23'-8"	=====
a1(E)	423	#5	30'-3"	=====
a2(E)	12	#5	30'-4"	=====
b(E)	440	#5	31'-8"	=====
b1(E)	380	#5	26'-6"	=====
b2(E)	130	#4	25'-4"	=====
c(E)	232	#5	2'-4"	~
c1(E)	232	#5	12'-1"	=====
d(E)	232	#4	5'-2"	L
d1(E)	232	#6	5'-1"	L
d2(E)	68	#4	2'-2"	U
d3(E)	546	#4	5'-4"	U
d4(E)	546	#4	5'-10"	U
d5(E)	273	#4	6'-4"	U
e(E)	20	#4	16'-3"	=====
e1(E)	120	#4	16'-2"	=====
m(E)	18	#6	30'-6"	=====
m1(E)	48	#6	5'-7"	=====
m2(E)	8	#6	1'-11"	=====
m3(E)	12	#6	3'-2"	=====
m4(E)	2	#6	0'-11"	=====
m5(E)	26	#5	3'-8"	=====
m10(E)	6	#6	30'-6"	=====
m11(E)	24	#6	5'-10"	U
m12(E)	36	#6	5'-2"	=====
m13(E)	12	#6	30'-6"	=====
m14(E)	6	#4	29'-9"	=====
m15(E)	26	#5	6'-7"	=====
m16(E)	6	#6	1'-11"	=====
s(E)	52	#5	9'-11"	U
s1(E)	52	#5	11'-8"	U
s2(E)	52	#5	9'-3"	U
s10(E)	52	#5	8'-1"	U
s11(E)	52	#5	10'-4"	U
s12(E)	52	#5	8'-3"	U
u10(E)	52	#4	4'-8"	U
v(E)	168	#5	3'-1"	L
Concrete Superstructure			Cu. Yd.	450.0
Bridge Deck Grooving			Sq. Yd.	1,114
Protective Coat			Sq. Yd.	1,748
Reinforcement Bars, Epoxy Coated			Pound	80,280

Bars indicated thus 1 x 2-#4 etc. indicates
1 line of bars with 2 lengths per line.

NOTES:

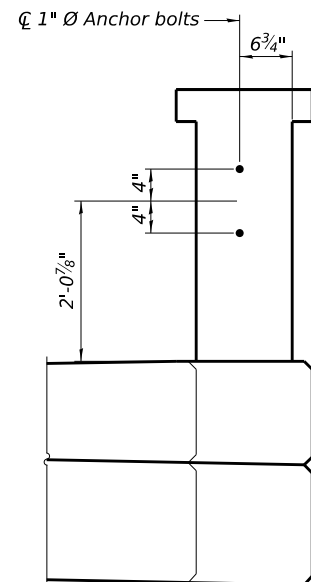
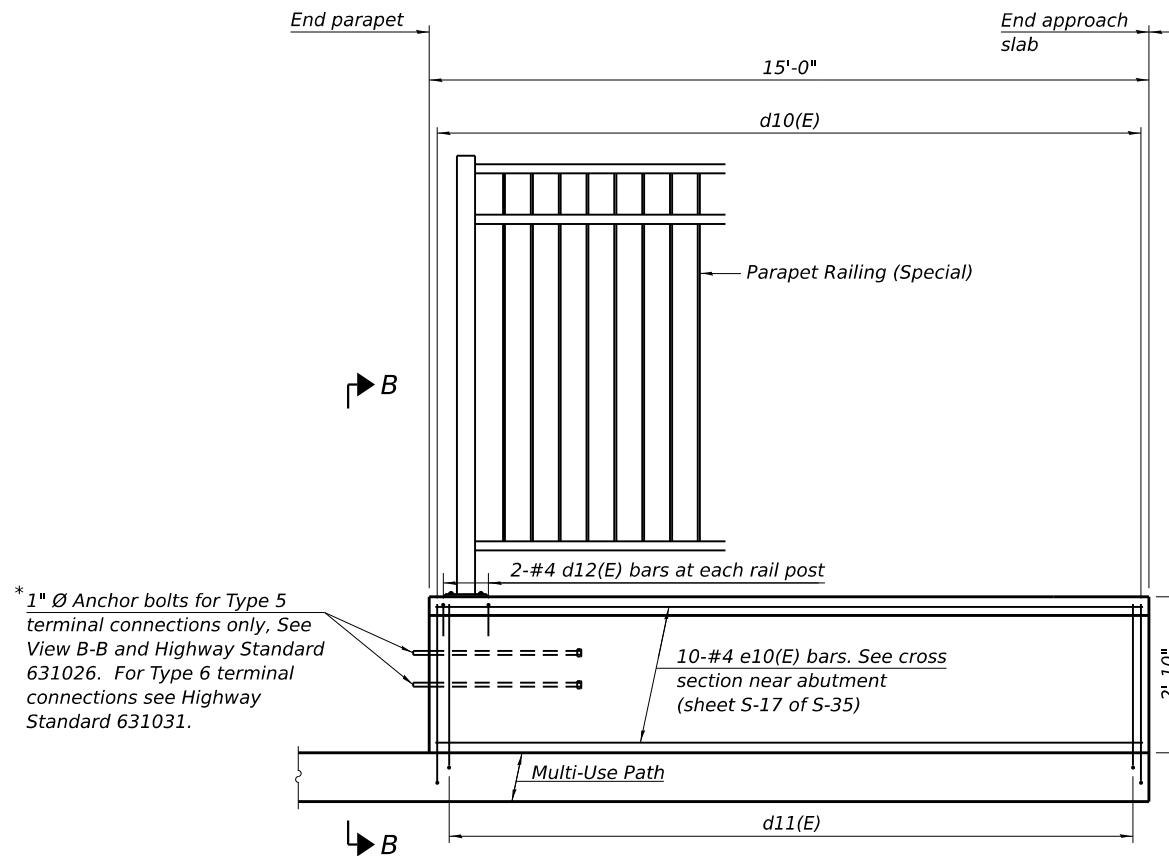
1. *The $\frac{3}{16}$ " aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.*
2. *The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.*
3. *Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.*
4. *Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.*

MODEL: Default
FILE NAME: P:\WAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\Sheets\Structural\191414-ORD-S-16-WA\Approach(Sht1).dgn



* Cost included with Concrete Superstructure (Approach Slab).
** Cut to fit.

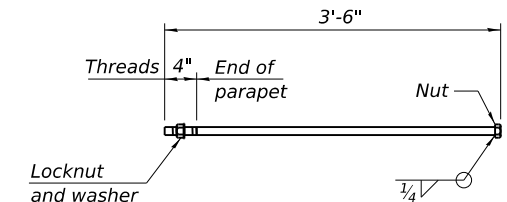
NOTE:
1. For Section A-A, Cross Sections, Notes and Bill of Material, see Sheet S-17.



MIN. BAR LAP
#5 = 3'-6"
#8 = 4'-9"

**TOP AND BOTTOM ELEVATIONS
FOR WEST APPROACH FOOTING**

Point/Location	Station	Offset	Top	Bottom
A - NE	24+62.79	37.43' Lt.	619.72	618.89
B - E CL	24+58.69	0.00'	619.68	618.84
C - SE	24+53.87	42.94' Rt.	619.61	618.78
D - NW	24+52.85	37.47' Lt.	619.60	618.77
E - W CL	24+48.63	0.00'	619.55	618.72
F - SW	24+43.68	42.90' Rt.	619.49	618.66



BAXTER & WOODMAN
Consulting Engineers

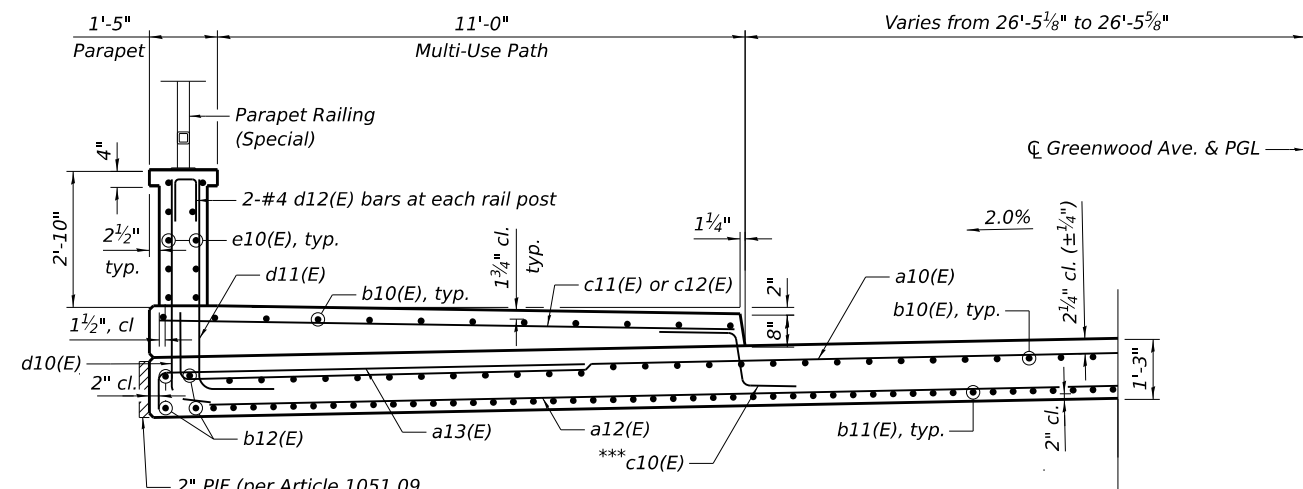
USER NAME =	DESIGNED - EBK	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - EBK	REVISED -
PLOT DATE =	CHECKED - BLB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

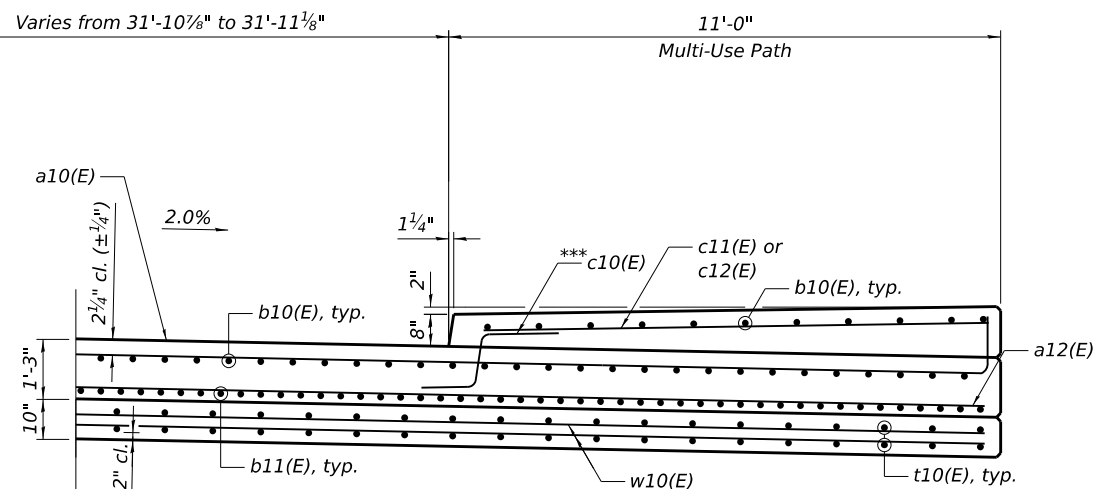
WEST APPROACH SLAB PLAN
STRUCTURE NO. 049-8001

SHEET S-16 OF S-35 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	41
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

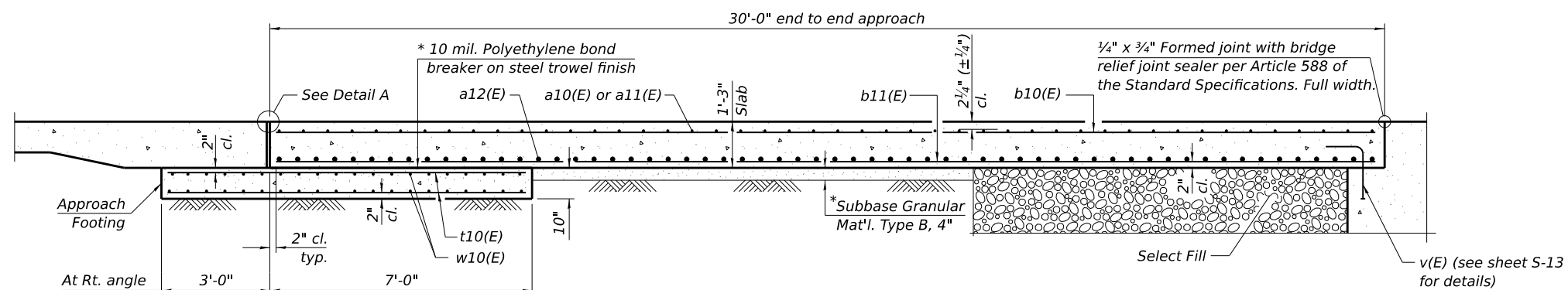


CROSS SECTION
(Looking East)

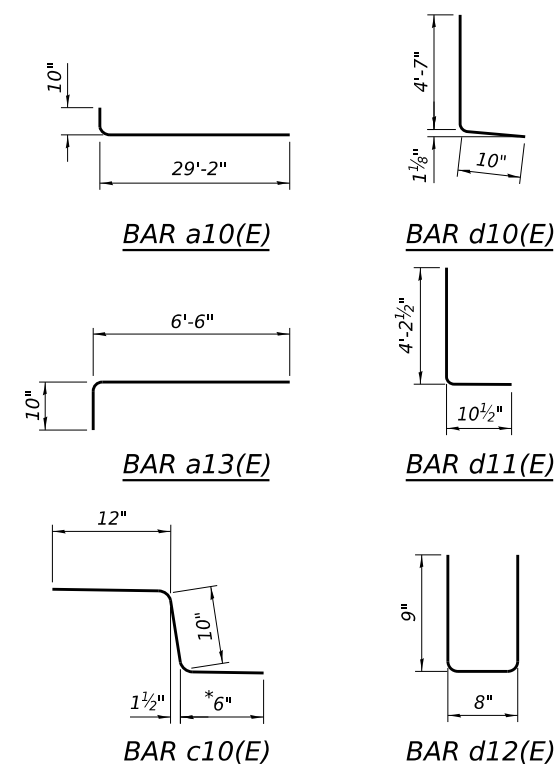


AT APPROACH FOOTING

- * *Cost included with Concrete Superstructure (Approach Slab).*
- ** *Per manufacturer recommendations.*
- *** *In lieu of bottom leg, c10(E) bars may be drilled and set according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6".*



SECTION A-A



BAR a10(E)

BAR d10(E)

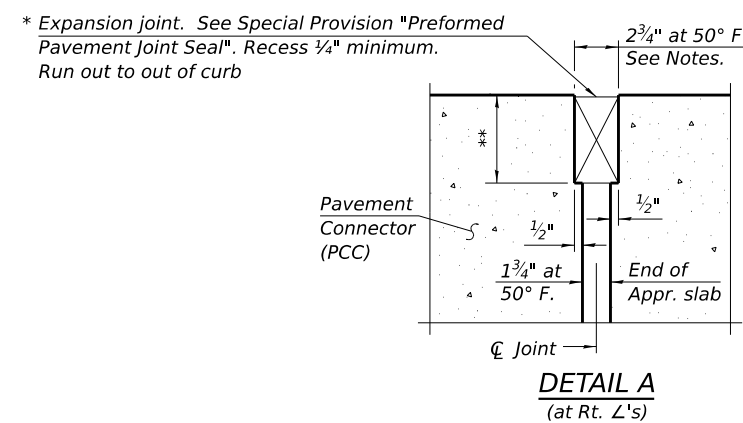
BAR a13(E)

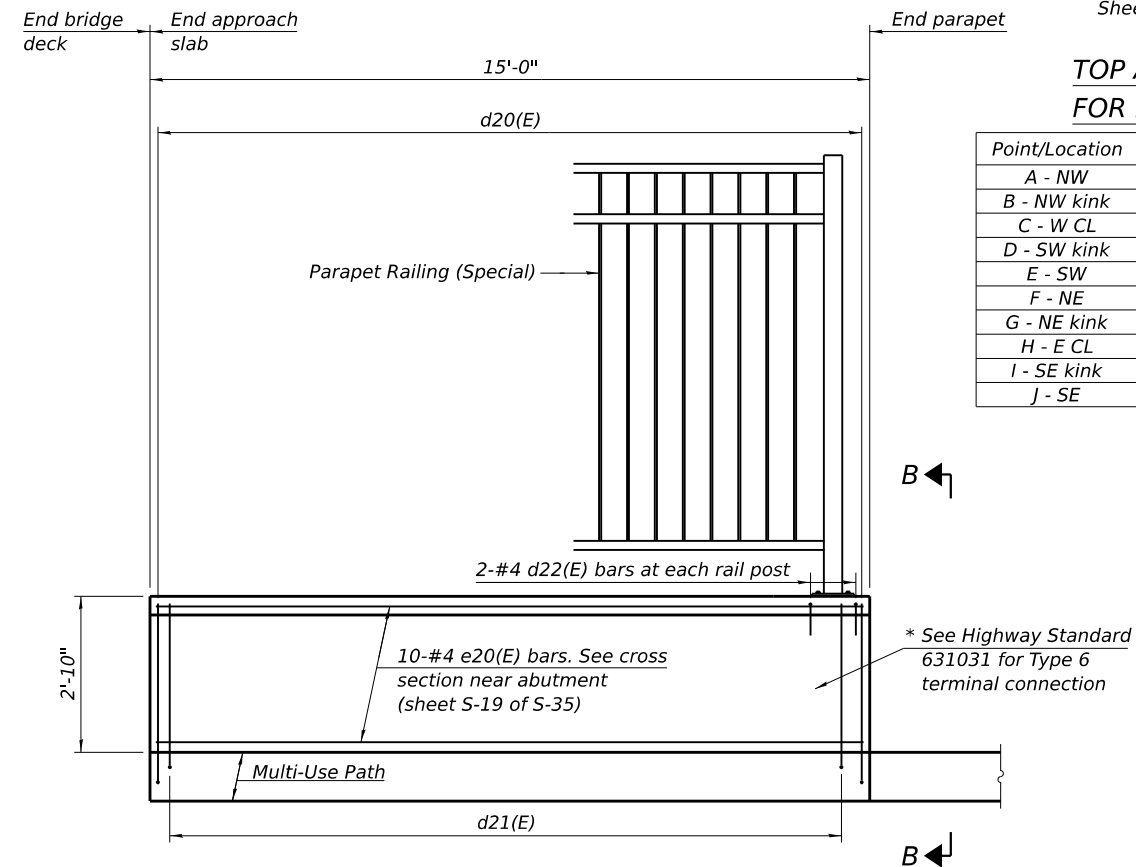
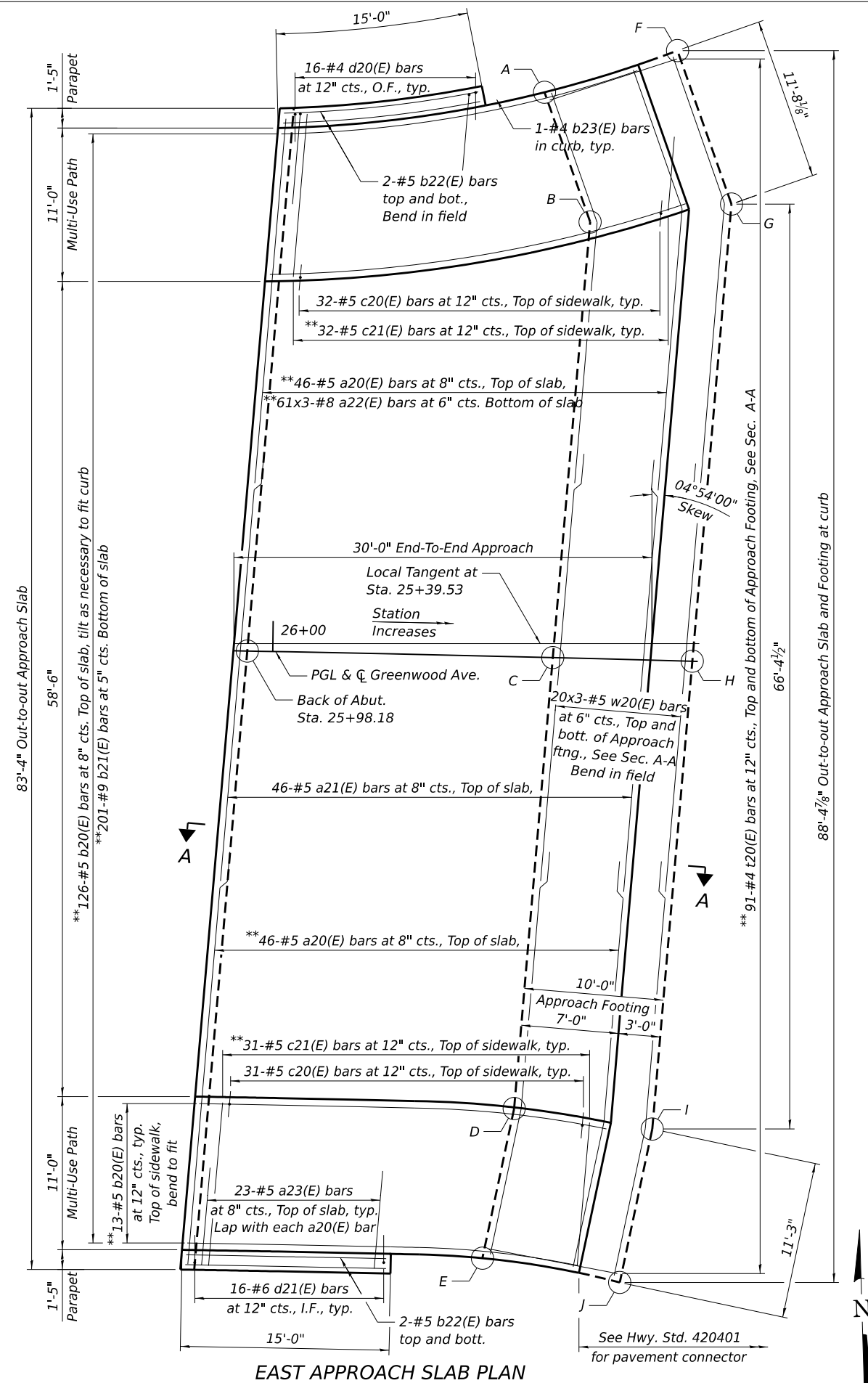
BAR d11(E)

$$BAR\ c10(E)$$

BAR d12(E)

Bar	No.	Size	Length	Shape
a10(E)	92	#5	30'-0"	
a11(E)	46	#5	30'-0"	
a12(E)	183	#8	30'-1"	
a13(E)	46	#5	7'-4"	
b10(E)	147	#5	29'-8"	
b11(E)	196	#9	29'-8"	
b12(E)	8	#5	14'-8"	
c10(E)	62	#5	2'-4"	
c11(E)	62	#5	12'-1"	
d10(E)	32	#4	5'-2"	
d11(E)	32	#6	5'-5"	
d12(E)	16	#4	2'-2"	
e10(E)	20	#4	14'-8"	
t10(E)	164	#4	9'-8"	
w10(E)	120	#5	29'-3"	
Concrete Superstructure			Cu. Yd.	25.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	114.5
Concrete Structures			Cu. Yd.	25.3
Reinforcement Bars, Epoxy Coated			Pound	50,060





NOTE:

1. For Sections A-A, Cross Section, Notes, Bill of Material and Inside Elevation of parapets, see Sheet S-19.

TOP AND BOTTOM ELEVATIONS
FOR EAST APPROACH FOOTING

<i>Point/Location</i>	<i>Station</i>	<i>Offset</i>	<i>Top</i>	<i>Bottom</i>
<i>A - NW</i>	<i>26+18.54</i>	<i>40.54' Lt.</i>	<i>616.55</i>	<i>615.72</i>
<i>B - NW kink</i>	<i>26+22.00</i>	<i>31.31' Lt.</i>	<i>616.34</i>	<i>615.51</i>
<i>C - W CL</i>	<i>26+20.11</i>	<i>0.00'</i>	<i>616.46</i>	<i>615.63</i>
<i>D - SW sink</i>	<i>26+18.12</i>	<i>32.43' Rt.</i>	<i>616.57</i>	<i>615.74</i>
<i>E - SW</i>	<i>26+16.08</i>	<i>43.21' Rt.</i>	<i>616.69</i>	<i>615.85</i>
<i>F - NE</i>	<i>26+27.88</i>	<i>43.78' Lt.</i>	<i>616.00</i>	<i>615.17</i>
<i>G - NE kink</i>	<i>26+32.01</i>	<i>32.88' Lt.</i>	<i>615.76</i>	<i>614.93</i>
<i>H - E CL</i>	<i>26+30.13</i>	<i>0.00'</i>	<i>615.88</i>	<i>615.04</i>
<i>I - SE kink</i>	<i>26+28.17</i>	<i>33.64' Rt.</i>	<i>615.99</i>	<i>615.16</i>
<i>J - SE</i>	<i>26+26.11</i>	<i>44.71' Rt.</i>	<i>616.10</i>	<i>615.27</i>

MIN. BAR LAP

#5 = 3'-6"

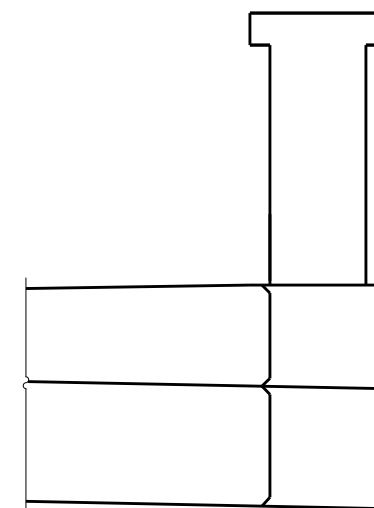
#8 = 4'-9"

#8 = 4'-9"

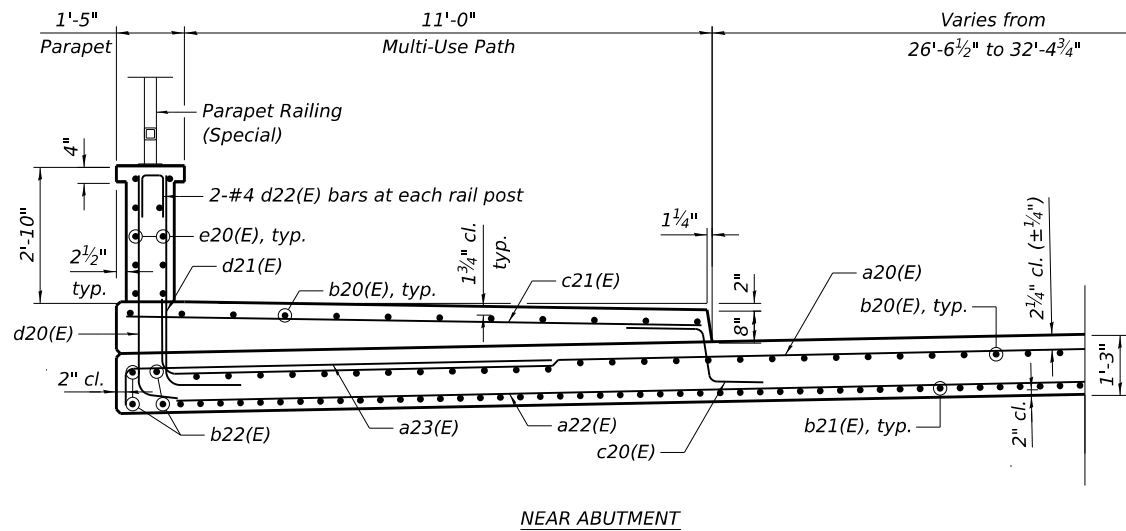
* See Highway Standard 631031 for Type 6 terminal connection

* Cost included with Concrete Superstructure (Approach Slab).

**
Cut to fit.

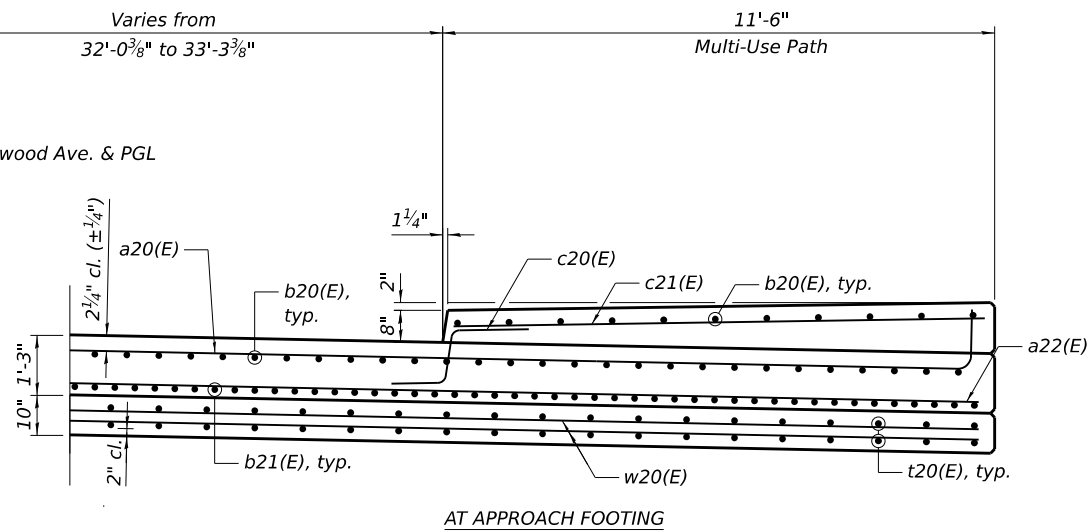


VIEW B-B
(Rebars not shown for clarity)



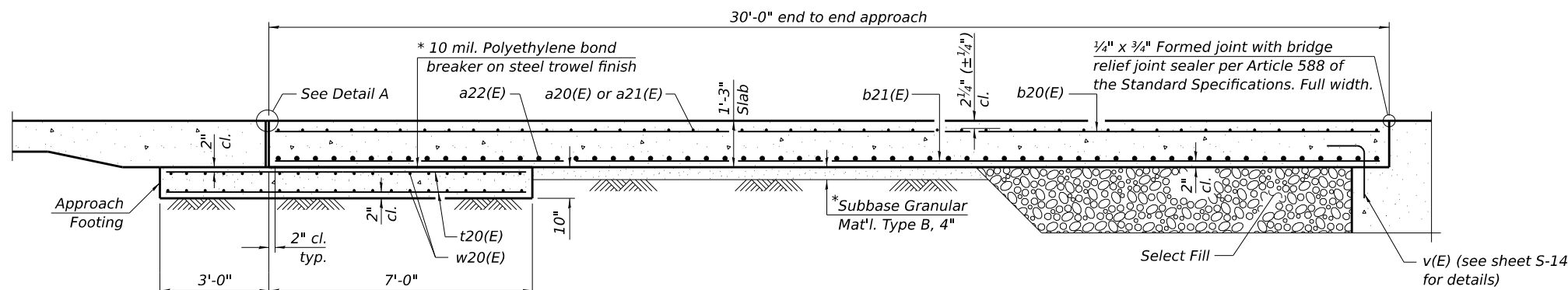
NEAR ABUTMENT

CROSS SECTION
(Looking Upstation)



AT APPROACH FOOTING

- * Cost included with Concrete Superstructure (Approach Slab).
- ** Per manufacturer recommendations.
- *** In lieu of bottom leg, c20(E) bars may be drilled and set according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6".



SECTION A-A

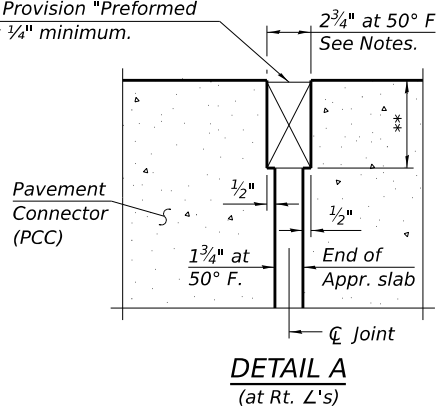
NOTES:

- The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
- Parapet concrete shall be paid for as Concrete Superstructure.
- Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
- Approach footing concrete shall be paid for as Concrete Structures.
- The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.

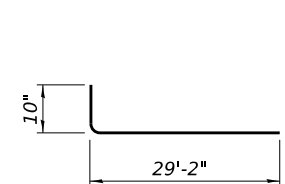
EAST APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	92	#5	30'-0"	
a21(E)	46	#5	35'-0"	
a22(E)	183	#8	32'-2"	
a23(E)	46	#5	7'-4"	
b20(E)	152	#5	29'-8"	
b21(E)	201	#9	29'-8"	
b22(E)	8	#5	14'-10"	
b23(E)	2	#4	14'-8"	
c20(E)	63	#5	2'-4"	
c21(E)	63	#5	12'-1"	
d20(E)	32	#4	5'-2"	
d21(E)	32	#6	5'-5"	
d22(E)	16	#4	2'-2"	
e20(E)	20	#4	14'-8"	
t20(E)	182	#4	9'-8"	
w20(E)	120	#5	32'-2"	
Concrete Superstructure			Cu. Yd.	26.2
Concrete Superstructure (Approach Slab)			Cu. Yd.	117.0
Concrete Structures			Cu. Yd.	26.6
Reinforcement Bars, Epoxy Coated			Pound	52,490

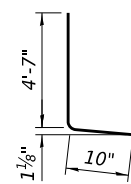
* Expansion joint. See Special Provision "Preformed Pavement Joint Seal". Recess 1/4" minimum. Run out to out of curb



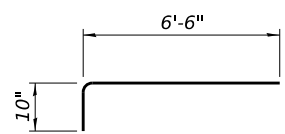
DETAIL A
(at Rt. L's)



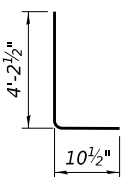
BAR a20(E)



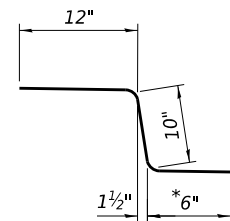
BAR d20(E)



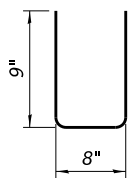
BAR a23(E)



BAR d21(E)



BAR c20(E)



BAR d22(E)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST APPROACH SLAB SECTIONS AND DETAILS
STRUCTURE NO. 049-8001

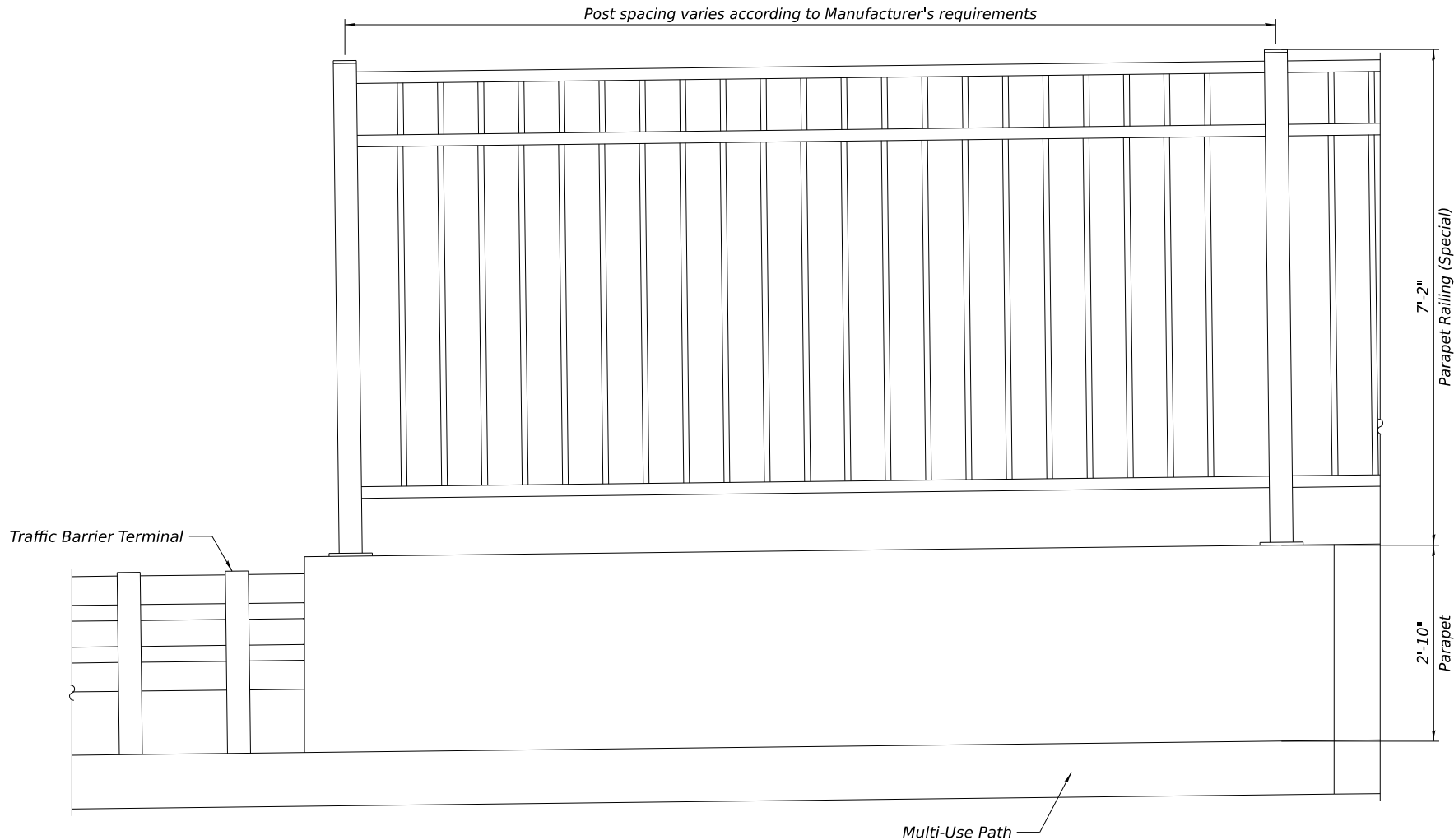
SHEET S-19 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	44
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

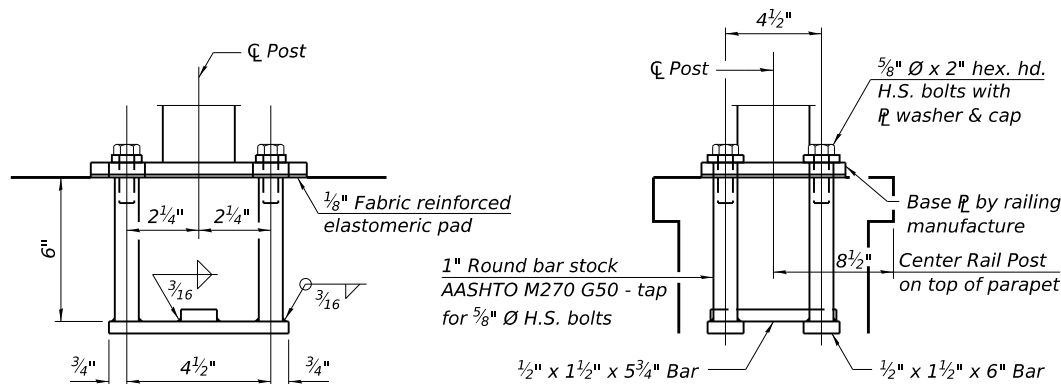
BAXTER & WOODMAN
Consulting Engineers

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

MODEL: Default
FILE NAME: P:\WAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\Sheets\Structural\191414-ORD-520-Railing.dgn



TYPICAL ELEVATION



ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

- Color of railing elements shall be matte black.
- Rail sizes, member spacing or configuration may vary according to manufacturer's requirements. Base plates and anchorage assemblies may be adjusted accordingly.
- Railings shall comply with the geometric requirements of the latest AASHTO LRFD Bridge Design Specifications, and shall be designed for the pedestrian live loading specified by AASHTO, except loads in the transverse and vertical directions need not be applied simultaneously.
- Contractor shall install black plastic caps to cover each exposed nut (4 per post). Cost included with Parapet Railing, Special.
- Contractor shall submit a proposed post layout for approval along with shop drawings for the railing. Posts shall be spaced to avoid parapet joints, while maintaining as uniform a spacing as possible. Maximum post spacing = 8'-0".
- Post anchorage hardware shall be Stainless Steel in accordance with Article 1006.31.

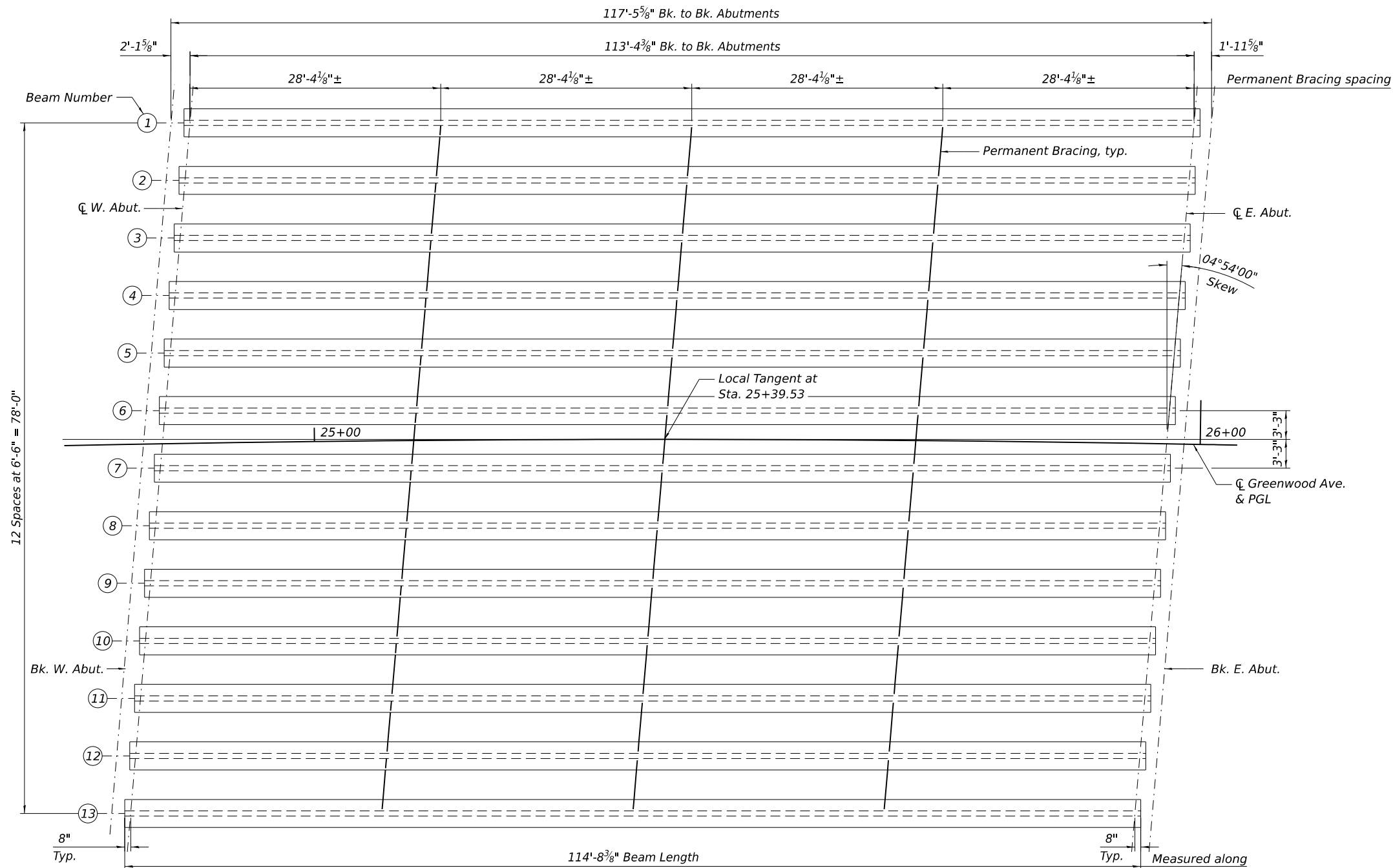
BILL OF MATERIAL

Item	Unit	Total
Parapet Railing (Special)	Ft	291

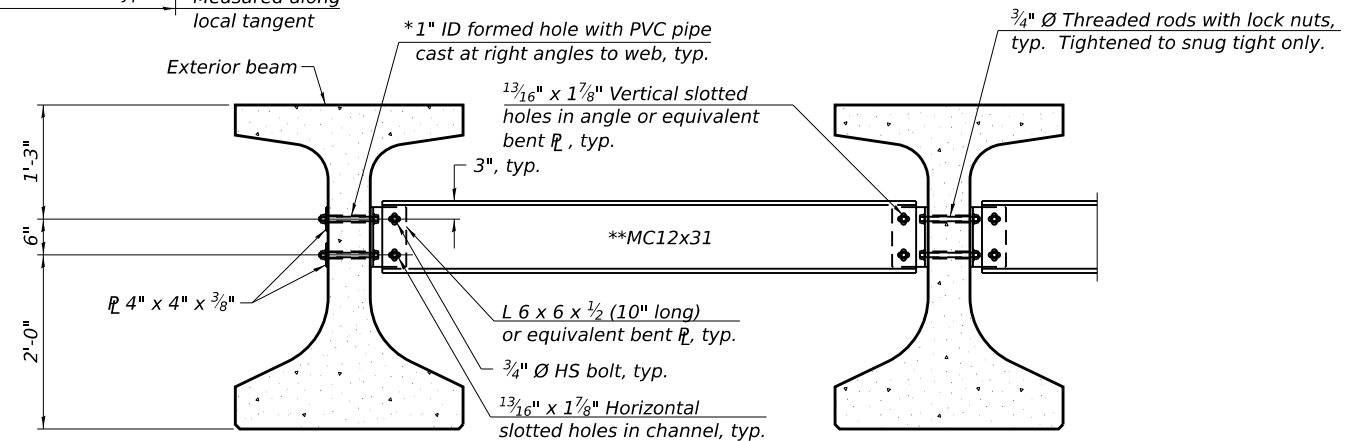
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	CHECKED - BLB	REVISED -
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	45
ILLINOIS				CONTRACT NO. 61L19
FED. AID PROJECT				

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FRAMING PLAN



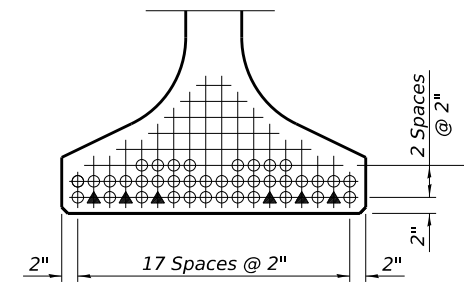
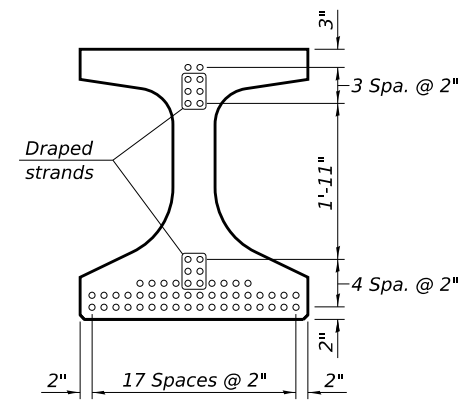
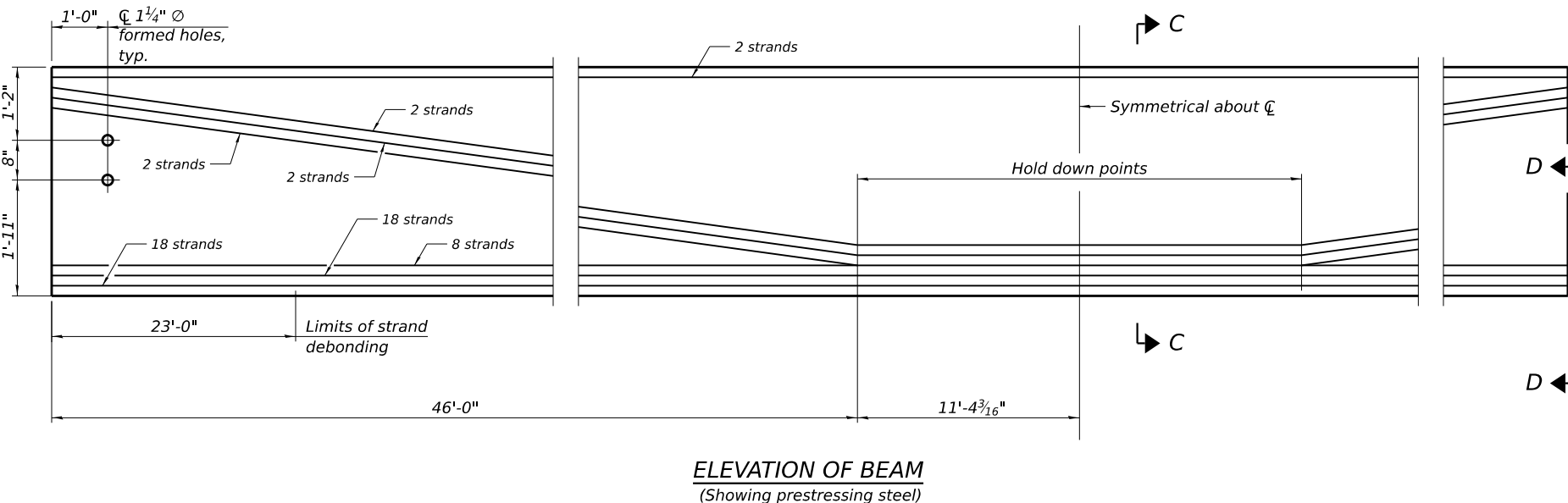
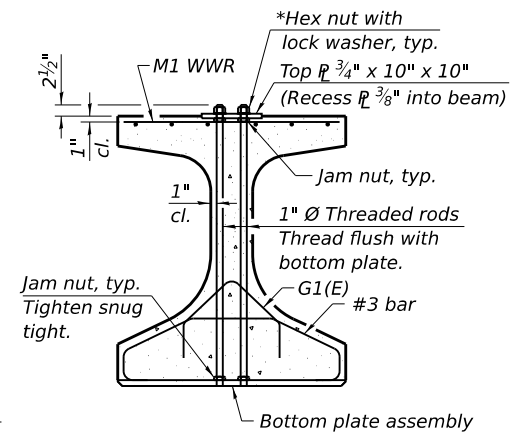
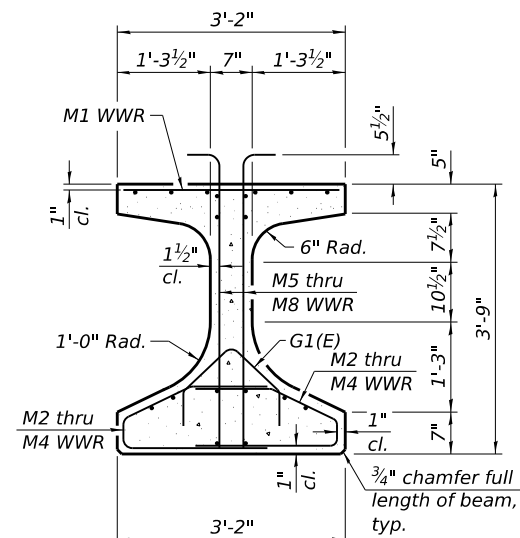
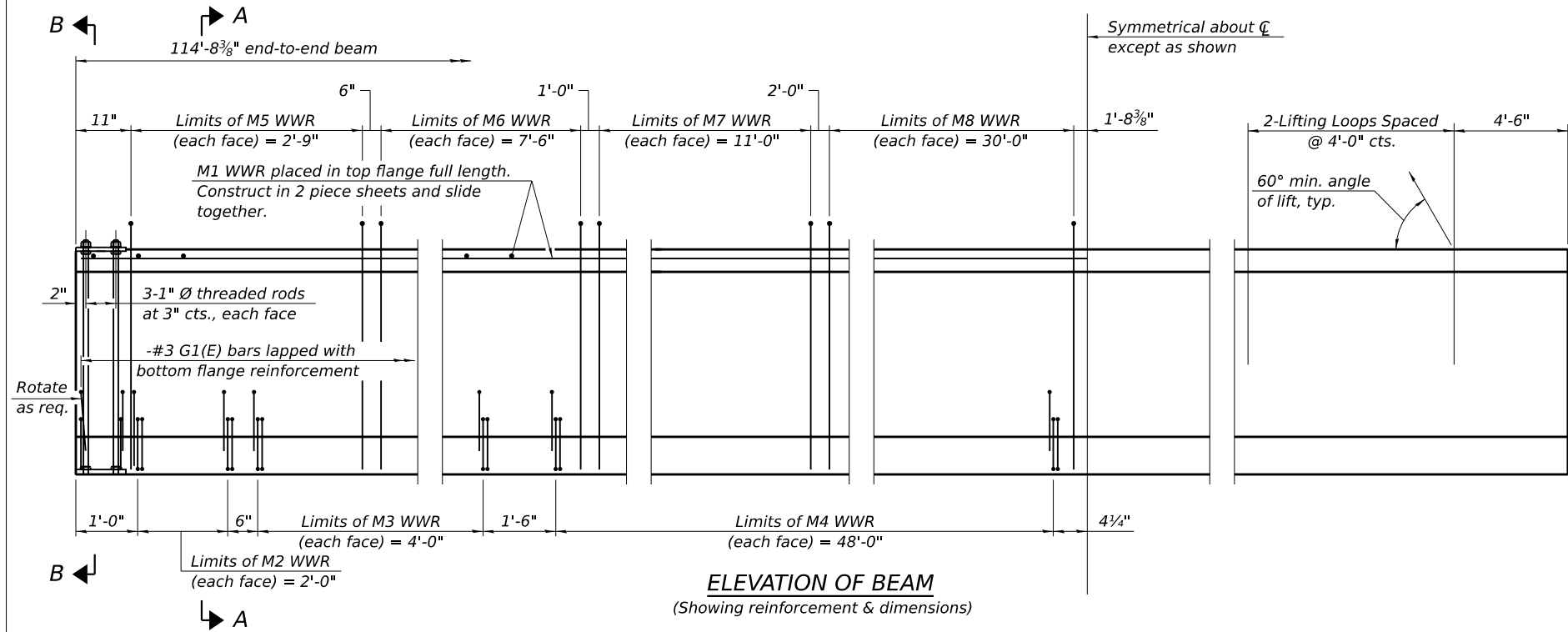
PERMANENT BRACING DETAILS
FOR IL45 BEAMS

- Notes:
- All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted. Two hardened washers are required for each set of oversized holes.
 - All holes shall be $\frac{1}{16}$ " $\varnothing$ unless otherwise noted.
 - $\frac{5}{16}$ " x 3" x 3" plate washers are required over all slotted holes.
 - All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.
 - Threaded rods shall be ASTM F 1554 Grade 55.
 - Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 - Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.
- * Fabricator shall locate to miss strands within permissible tolerances.
- **Alternate MC12x35 channels are permitted to facilitate material acquisition.

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	46
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\WAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\Sheets\Structural\191414-ORD-522-PPCBeam(Sht1).dgn



VIEW D-D

○ Fully bonded strand
▲ Partially debonded strand

Note:
See sheet S-23 of S-35 for additional details and Bill of Material.

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Consulting Engineers

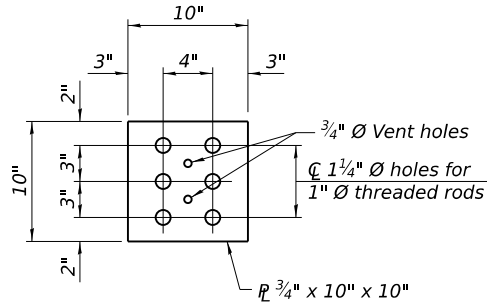
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PLOT SCALE =	CHECKED - BLB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

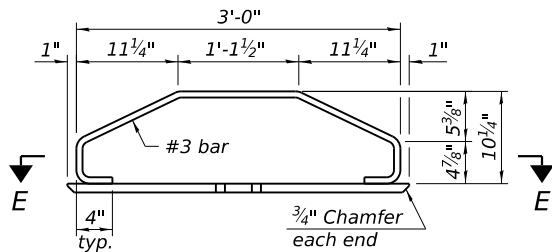
IL45 BEAM
STRUCTURE NO. 049-8001

SHEET S-22 OF S-35 SHEETS

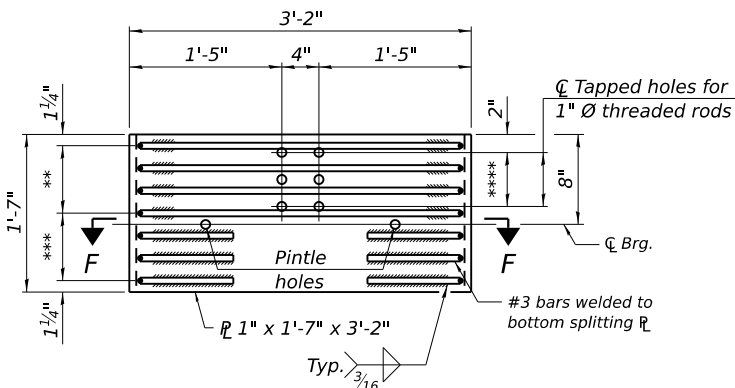
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3719	20-00243-00-BR	LAKE	78	47
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				



PLAN - TOP PLATE



ELEVATION - BOTTOM PLATE ASSEMBLY

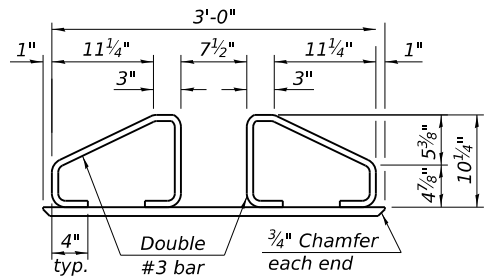


SECTION E-E

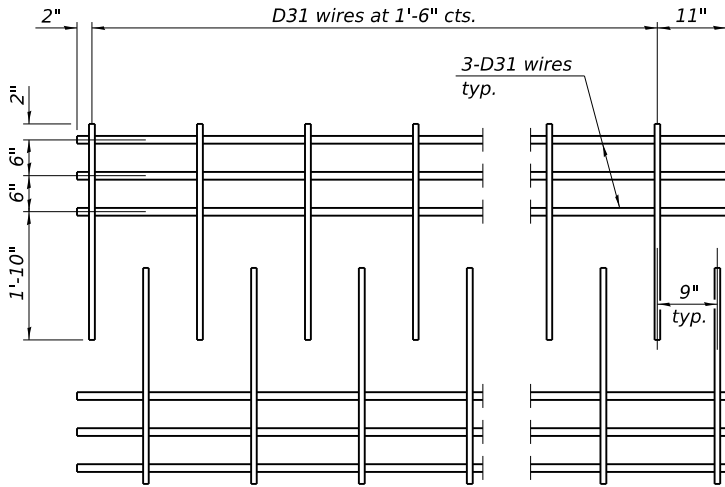
** 3 Spaces at 2 1/2" = 7 1/2"

*** 3 Spaces at 3" = 9"

**** 2 Spaces at 3" = 6"

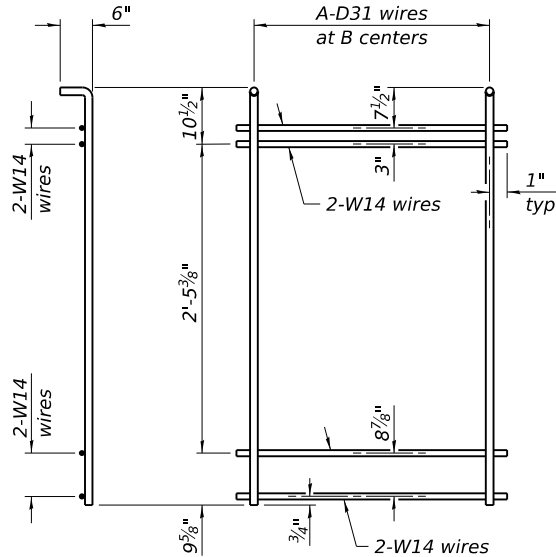


SECTION F-F



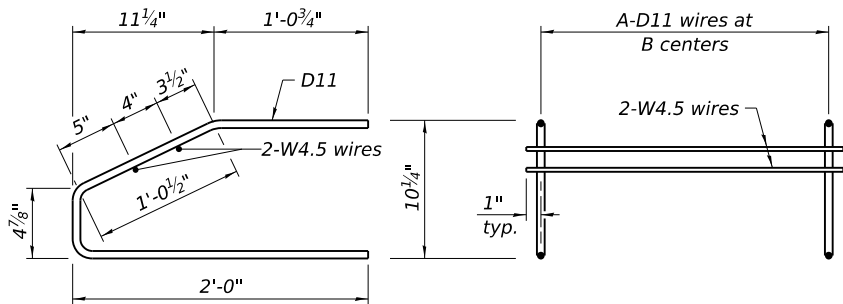
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-4").



M5 THRU M8 WWR DETAIL

(See Table of Dimensions)



M2 THRU M4 WWR DETAIL

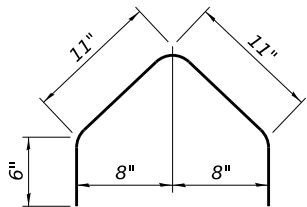
(See Table of Dimensions)

TABLE OF DIMENSIONS

(The WWR designs assume grade 60. If necessary, this permits the fabricator to directly substitute grade 60 rebar as detailed in the Manual for Fabrication of Precast Prestressed Concrete Products.)

SPAN

WWR	A	B
M2	9	3"
M3	9	6"
M4	33	1'-6"
M5	12	3"
M6	15	6"
M7	11	1'-0"
M8	15	2'-0"



BAR G1(E)

NOTES

Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the minimum nominal cross sectional area shall be 0.153 sq. in. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6500 psi.

A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling. Bend the extended strands inward on the fascia beams to maintain 1 1/2" clearance inside the pier diaphragm.

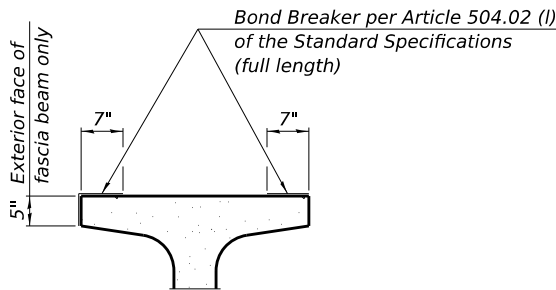
The top and bottom plates shall be AASHTO M270 Grade 50.

The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111.

The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.

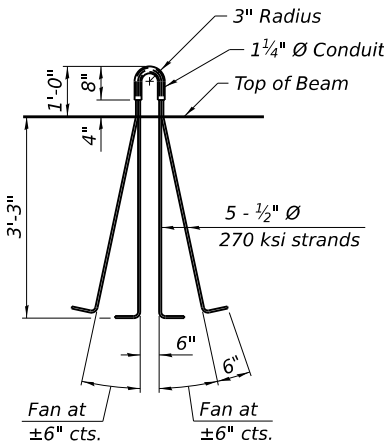
Threaded rods shall be ASTM F 1554 Grade 55.

Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.



SECTION THRU TOP FLANGE

(Showing limits of bond breaker)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL45	Ft.	1491

USER NAME =	DESIGNED - EBK	REVISED -
CHECKED - BLB	REVISIONS -	
PLOT SCALE =	DRAWN - EBK	REVISED -
PLOT DATE =	CHECKED - BLB	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	48
ILLINOIS				CONTRACT NO. 61L19
FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\WAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\Sheets\Structural\191414-ORD-524-MomentReactionTable.dgn

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I	(in ⁴)	223,604
I'	(in ⁴)	540,825
S _b	(in ³)	11,004
S _b '	(in ³)	17,023
S _t	(in ³)	9,060
S _t '	(in ³)	40,878
DC1	(k/ft)	1.65
M _{DC1}	(k)	2,658
DC2	(k/ft)	0.57
M _{DC2}	(k)	916
DW	(k/ft)	0.225
M _{DW}	(k)	362
LLDF	(k)	0.559
M _L + IM	(k)	1,884

INTERIOR BEAM REACTION TABLE		
		Abutments
LLDF	(k)	0.717
OCF	(k)	1.017
R _{DC1}	(k)	121.4
R _{DC2}	(k)	32.3
R _{DW}	(k)	12.8
R _L + IM	(k)	99.2
R _{Total} (Strength I)(Impact)	(k)	384.9
R _{Total} (Strength I)(No Impact)	(k)	341.9

I: Non-composite moment of inertia of beam section (in.⁴).
I': Composite moment of inertia of beam section (in.⁴).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
OCF: Obtuse Correction Factor computed according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
R_L: Un-factored live load reaction (kip).
R_{IM}: Un-factored dynamic load allowance (impact) (kip).
R_{Total} (Strength I)(Impact): Total factored reaction including dynamic load allowance (impact) (kip).
R_{Total} (Strength I)(No Impact): Total factored reaction not including dynamic load allowance (impact) (kip).



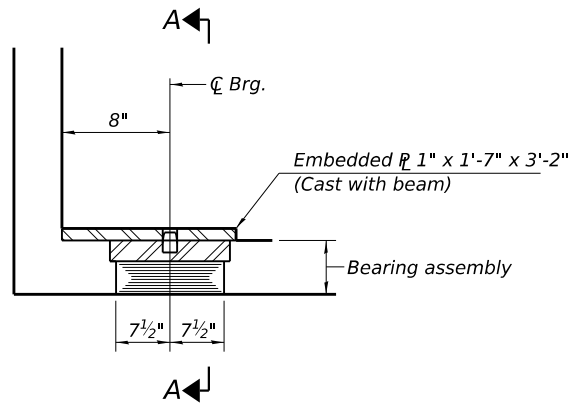
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

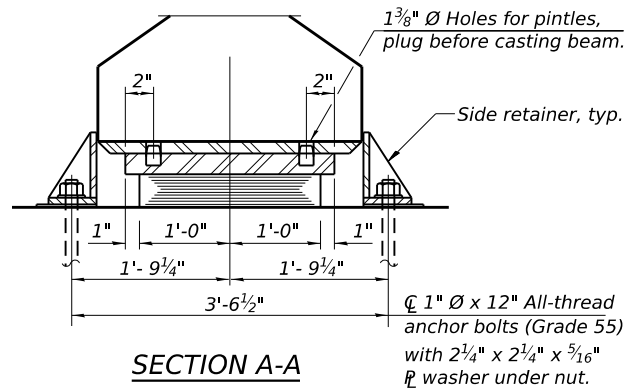
MOMENT AND REACTION TABLES
STRUCTURE NO. 049-8001

SHEET S-24 OF S-35 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	49
			CONTRACT NO. 61L19	
		ILLINOIS	FED. AID PROJECT	

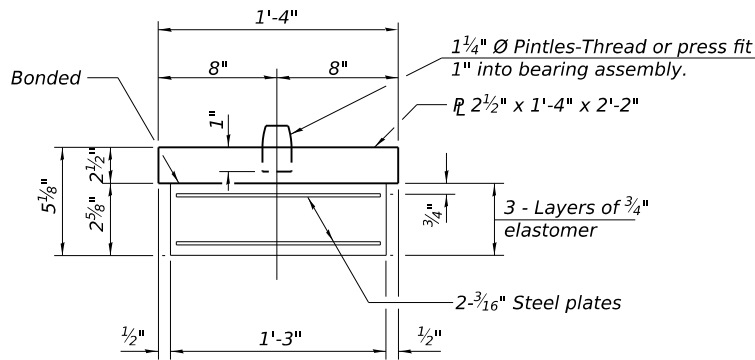


ELEVATION AT ABUT.

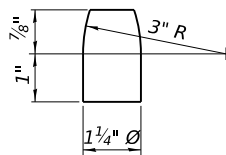


SECTION A-A

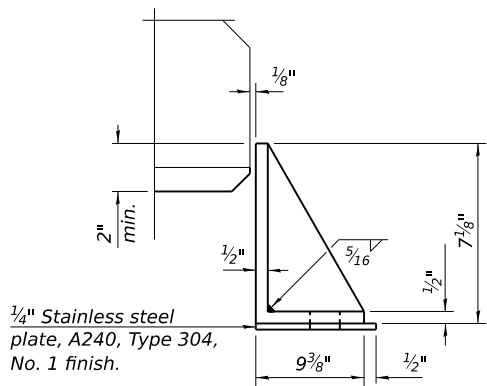
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

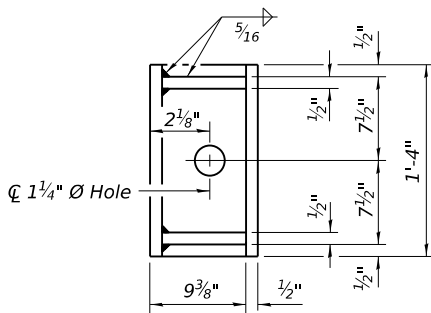


PINTLE



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



Notes:
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
See sheet S-23 of S-35 for additional details of embedded plate.
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 and M232 as applicable.
The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	13
Anchor Bolts, 1"	Each	26

PI-2E-1

5-15-2023

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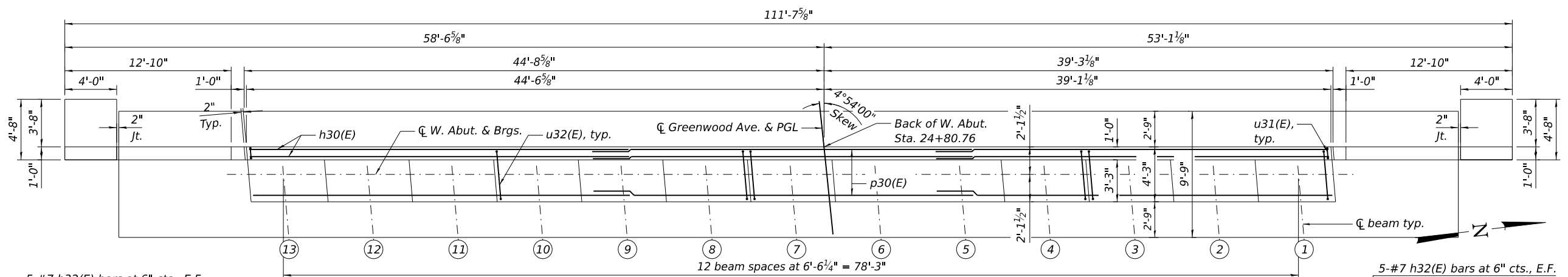
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	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - EBK	REVISED -
PLOT DATE =	CHECKED - BLB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

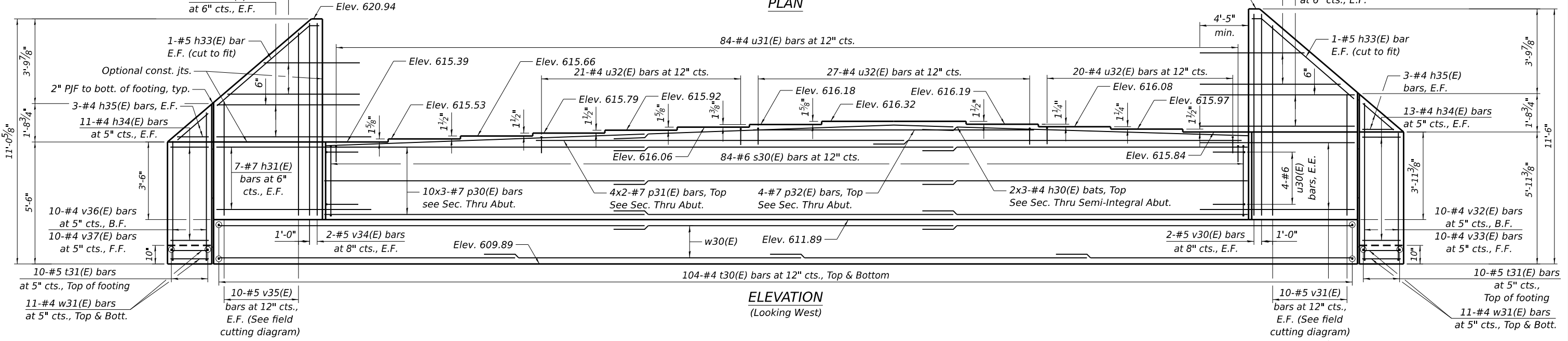
BEARING DETAILS
STRUCTURE NO. 049-8001

SHEET S-25 OF S-35 SHEETS

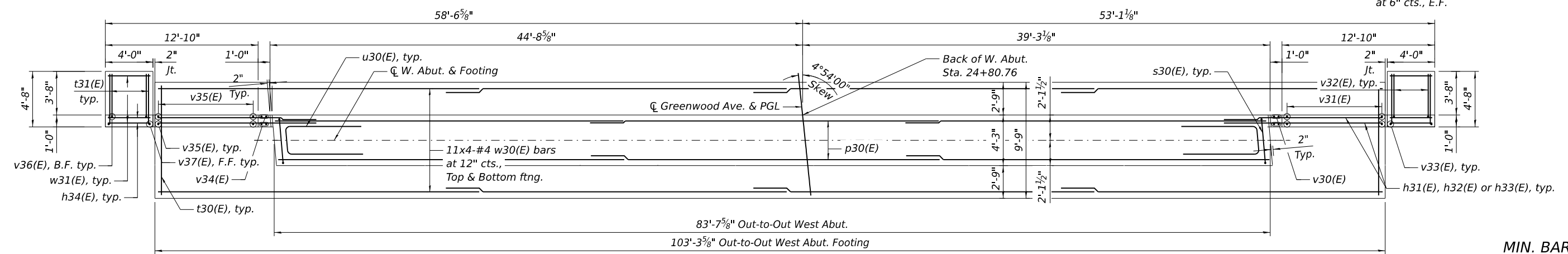
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	50
				CONTRACT NO. 61L19
		ILLINOIS	FED. AID PROJECT	



PLAN



ELEVATION
(Looking West)



FOOTING PLAN

MIN. BAR LAP

#4 = 2'-7"
#7 = 4'-5"

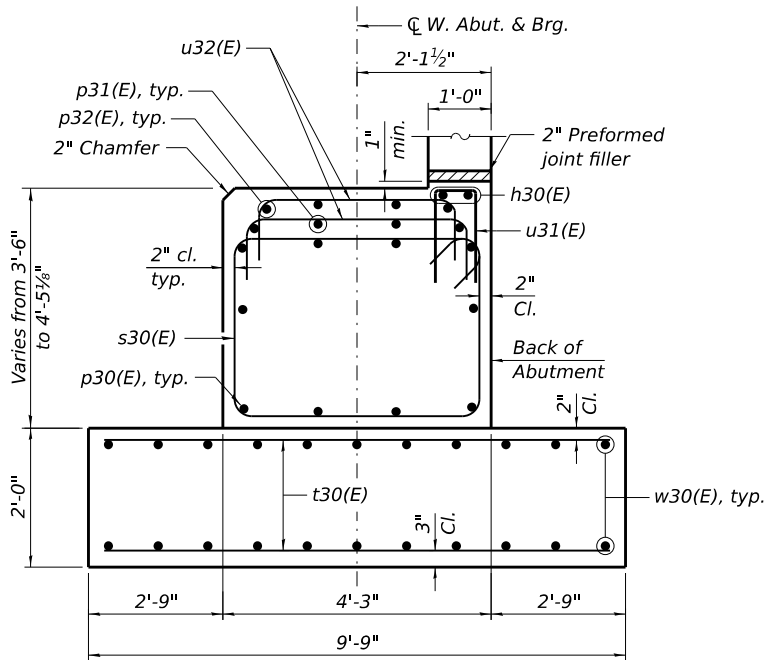
LEGEND:

E.E. = Each End
E.F. = Each Face
F.F. = Front Face
B.F. = Back Face

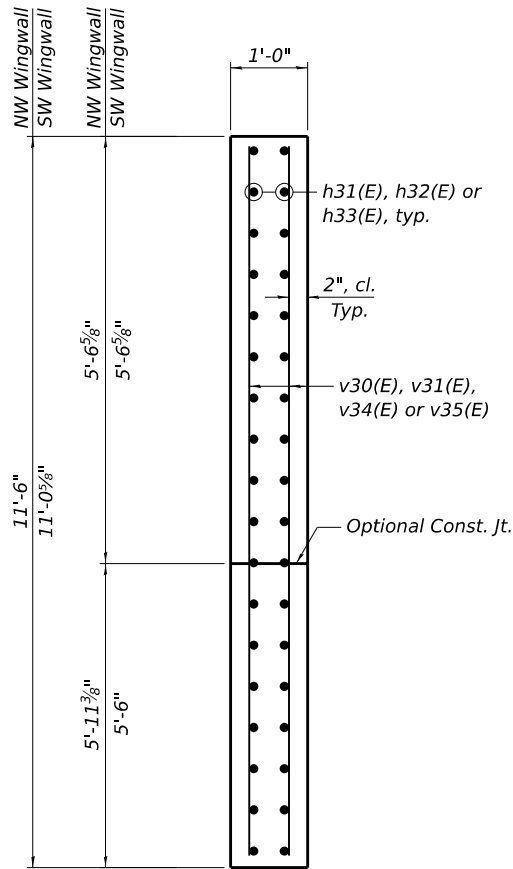
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BAXTER & WOODMAN Consulting Engineers	USER NAME =	DESIGNED - EBK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST ABUTMENT PLAN AND ELEVATION STRUCTURE NO. 049-8001	SHEET S-26 OF S-35 SHEETS	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - BLB	REVISED -				3719	20-00243-00-BR	LAKE	78	51
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		CHECKED - BLB	REVISED -				ILLINOIS FED. AID PROJECT				

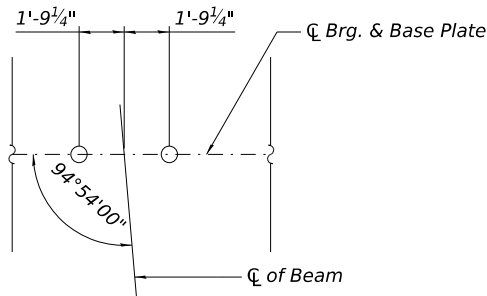
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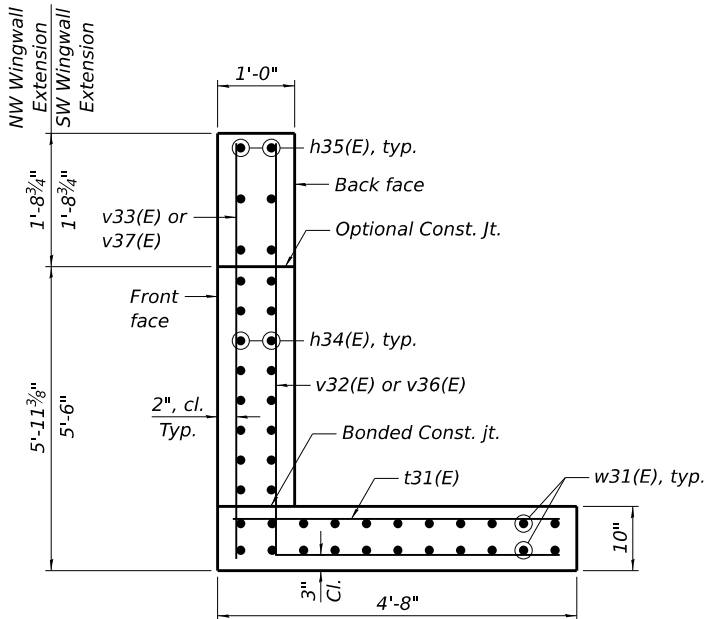
SEC. THRU SEMI-INTEGRAL ABUT.
Dimensions at right angles to abutment.



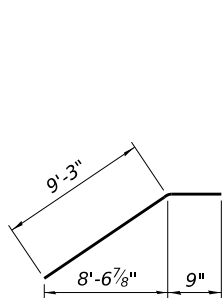
SEC. THRU WINGWALL



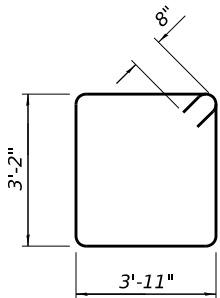
ANCHOR BOLT LOCATION DETAIL



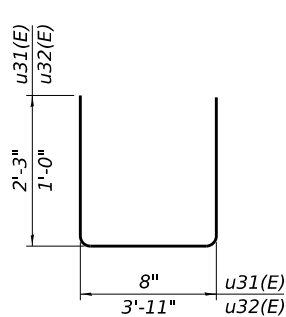
SEC. THRU WINGWALL EXTENSION



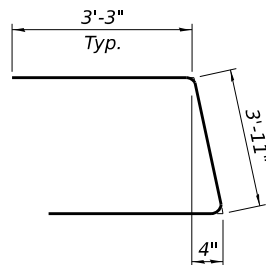
BAR h33(E)



BAR s30(E)



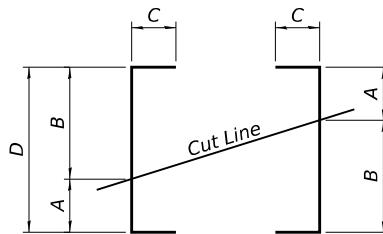
**BAR u31(E)
& u32(E)**



BAR u30(E)

NOTES:

1. Pour steps monolithically with cap.
2. Bars noted thus, 4x2-#7 indicates 4 lines of #7 bars with 2 lengths per line.
3. Space reinforcement in cap to miss anchor bolts.
4. For diaphragm details, see sheet S-13 of S-35.



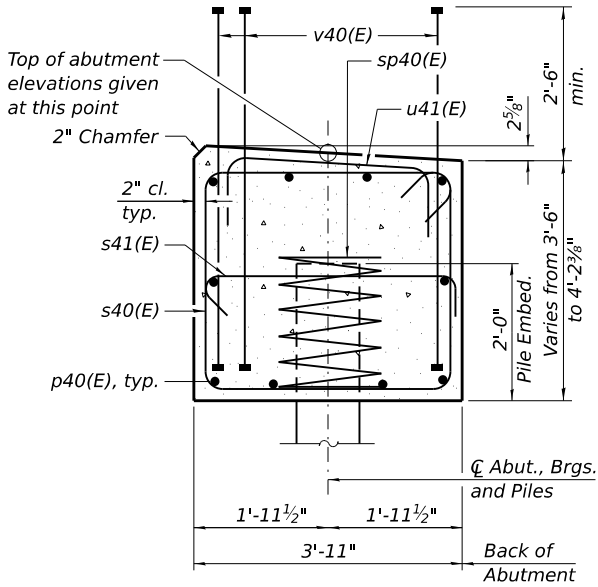
SERIES OF BAR CUTTING DIAGRAM
See table for dimensions.
Make all cuts normal to bar axis.

BILL OF MATERIAL

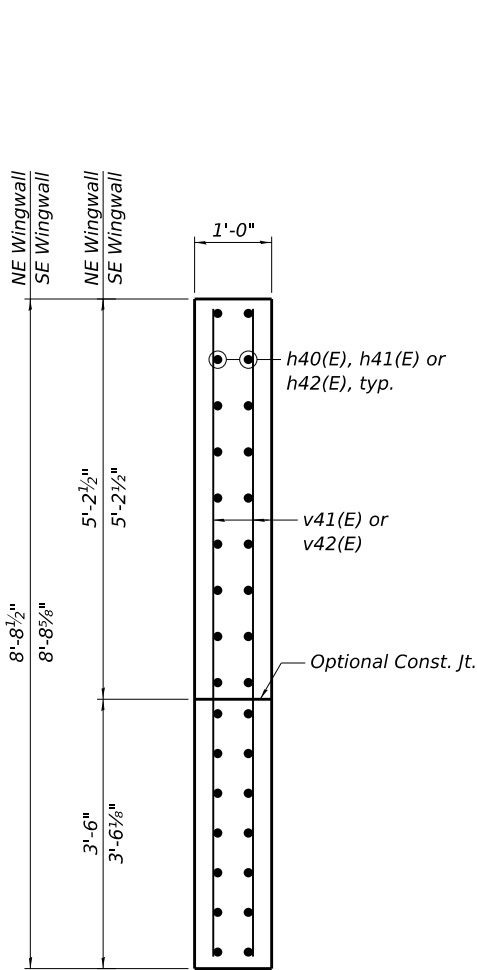
Bar	No.	Size	Length	Shape
h30(E)	6	#4	29'-9"	—
h31(E)	48	#7	14'-3"	—
h32(E)	10	#7	22'-6"	—
h33(E)	4	#5	10'-0"	—
h34(E)	48	#4	3'-8"	—
h35(E)	12	#4	4'-0"	—
p30(E)	30	#7	31'-0"	—
p31(E)	8	#7	34'-8"	—
p32(E)	4	#7	25'-9"	—
s30(E)	84	#6	15'-6"	—
t30(E)	208	#4	9'-5"	—
t31(E)	20	#5	4'-4"	—
u30(E)	8	#6	10'-5"	—
u31(E)	84	#4	5'-2"	—
u32(E)	68	#4	5'-11"	—
v30(E)	4	#5	9'-2"	—
v31(E)	10	#5	14'-3"	—
v32(E)	5	#4	20'-1"	—
v33(E)	5	#4	12'-9"	—
v34(E)	4	#5	8'-8"	—
v35(E)	10	#5	13'-11"	—
v36(E)	5	#4	19'-2"	—
v37(E)	5	#4	11'-10"	—
w30(E)	88	#4	27'-11"	—
w31(E)	44	#5	3'-8"	—
Concrete Structures			Cu. Yd.	136.3
Reinforcement Bars, Epoxy Coated			Pound	11,220

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

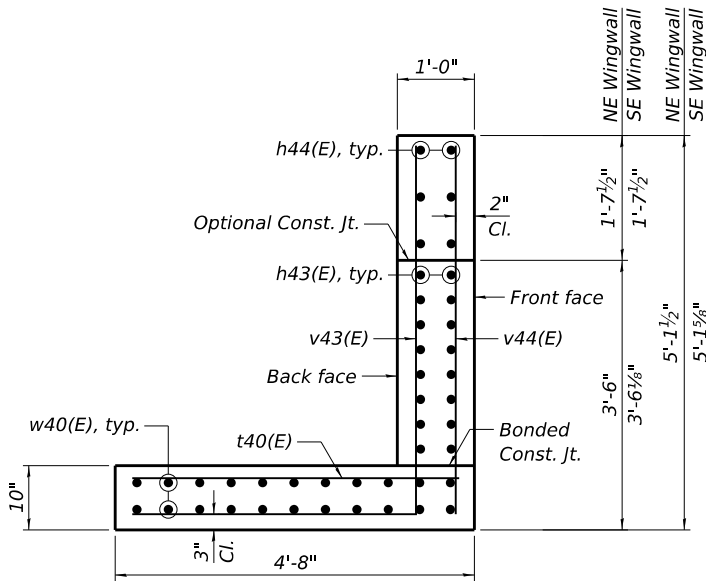
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	52
ILLINOIS FED. AID PROJECT				CONTRACT NO. 61L19



SEC. THRU ABUT.
Dimensions at right angles to abutment.



SEC. THRU WINGWALL

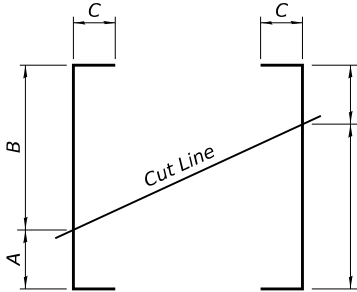


SEC. THRU WINGWALL EXTENSION

NOTES:

- Pour steps monolithically with cap.
- Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
- For details of piles, see sheet S-33 of S-35.
- Bars noted thus, 4x2-#7 indicates 4 lines of #7 bars with 2 lengths per line.
- Space reinforcement in cap to miss anchor bolts.
- Bar terminators, paid for separately. see Total Bill of Material.
- For diaphragm details, see sheet S-14 of S-35.

Bar	No. of sets req'd	Size	No. of bars per set	A	B	C	TOTAL
h41(E)	1	#7	10	9'-3"	13'-0"	-	22'-3"
v42(E)	1	#5	20	4'-11"	8'-0"	-	12'-11"
v43(E)	1	#5	20	3'-3"	4'-8"	3'-8"	16'-7"
v44(E)	1	#5	20	3'-3"	4'-8"	-	7'-11"



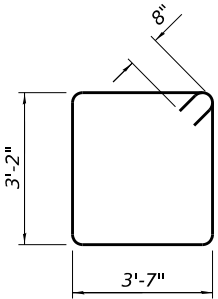
FIELD CUTTING DIAGRAM

Order h41(E) and v42(E) full length. Cut as shown and use remainder of bars in opposite wing.

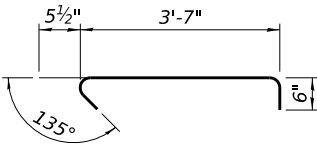
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h40(E)	22	#7	14'-1"	
h41(E)	10	#7	22'-3"	
h42(E)	4	#5	10'-0"	
h43(E)	28	#4	3'-8"	
h44(E)	12	#4	4'-0"	
p40(E)	30	#7	31'-0"	
p41(E)	8	#7	21'-10"	
s40(E)	78	#6	14'-10"	
s41(E)	26	#5	4'-7"	
* sp40(E)	13	#4	2'-0"	
t40(E)	20	#5	4'-4"	
u40(E)	8	#6	12'-1"	
u41(E)	85	#4	5'-7"	
v40(E)	196	#8	5'-10"	
v41(E)	8	#5	8'-4"	
v42(E)	20	#5	12'-11"	
v43(E)	20	#4	16'-7"	
v44(E)	20	#4	7'-11"	
w40(E)	44	#4	3'-8"	
Concrete Structures			Cu. Yd.	62.3
Reinforcement Bars, Epoxy Coated			Pound	9,750
Furnishing Metal Shell Piles, 16" x 0.375"			Foot	780
Driving Piles			Foot	780
Test Pile Metal Shells			Each	1
Pile Shoes			Each	13

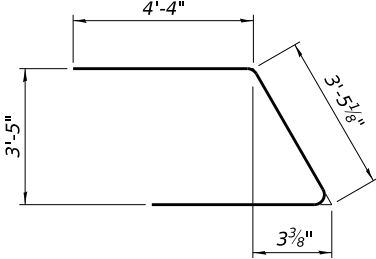
* Length is height of spiral.



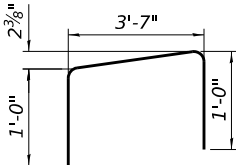
BAR s40(E)



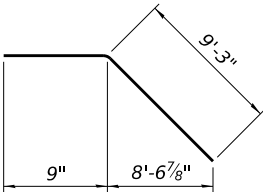
BAR s41(E)



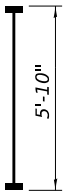
BAR u40(E)



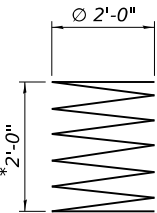
BAR u41(E)



BAR h42(E)



BAR v40(E)
(Headed. 196-#8 bar terminators)

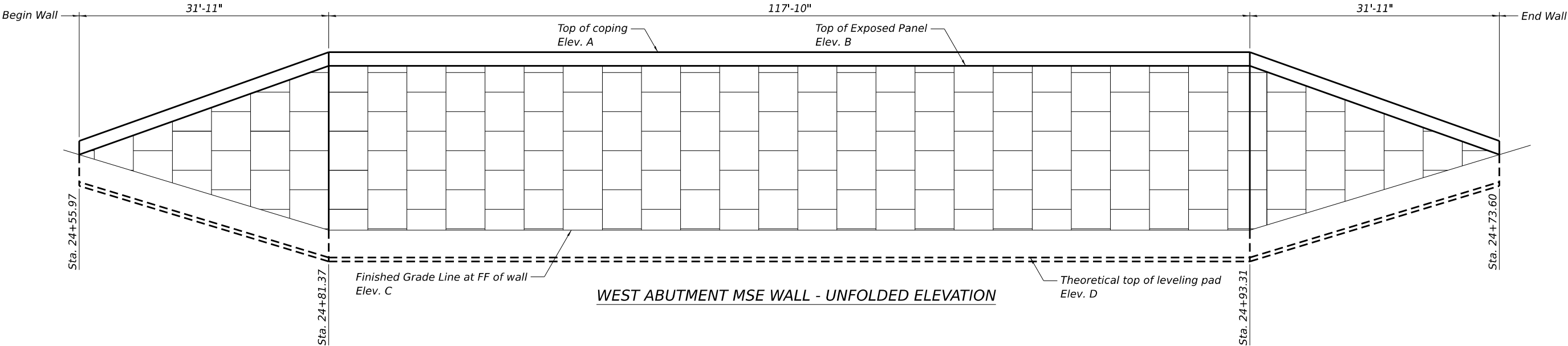
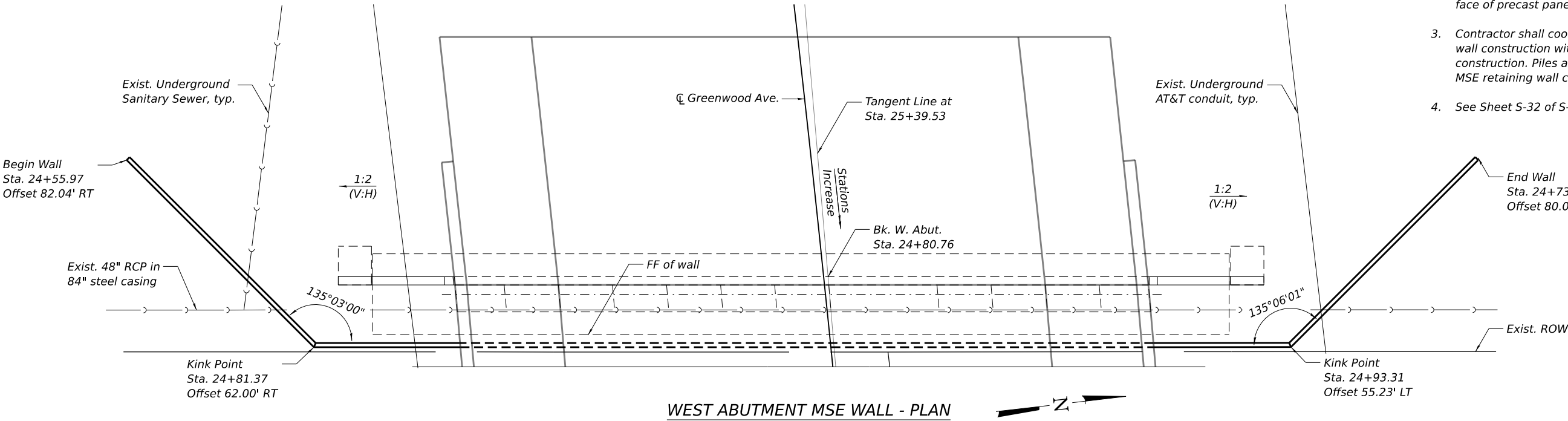


BAR sp40(E)

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	54
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

- NOTES:**
1. Wall stations offsets are given to the front face of wall and are measured from the CL of Greenwood Ave.
 2. Horizontal dimensions measured along front face of precast panels.
 3. Contractor shall coordinate MSE retaining wall construction with abutment construction. Piles are to be driven prior to MSE retaining wall construction.
 4. See Sheet S-32 of S-35 for additional details.



WEST ABUTMENT MSE WALL ELEVATIONS TABLE

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D
24+55.97	82.04' Rt.	605.39	603.64	603.64	600.14
24+81.37	62.00' Rt.	610.39	608.64	593.00	589.50
24+93.31	55.23' Lt.	610.39	608.64	593.00	589.50
24+73.60	80.01' Rt.	605.39	603.64	603.64	600.14

LEGEND:
FF = Front Face

MODEL: Default
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PLOT SCALE =	DRAWN - EBK	REVISED -
PLOT DATE =	CHECKED - BLB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

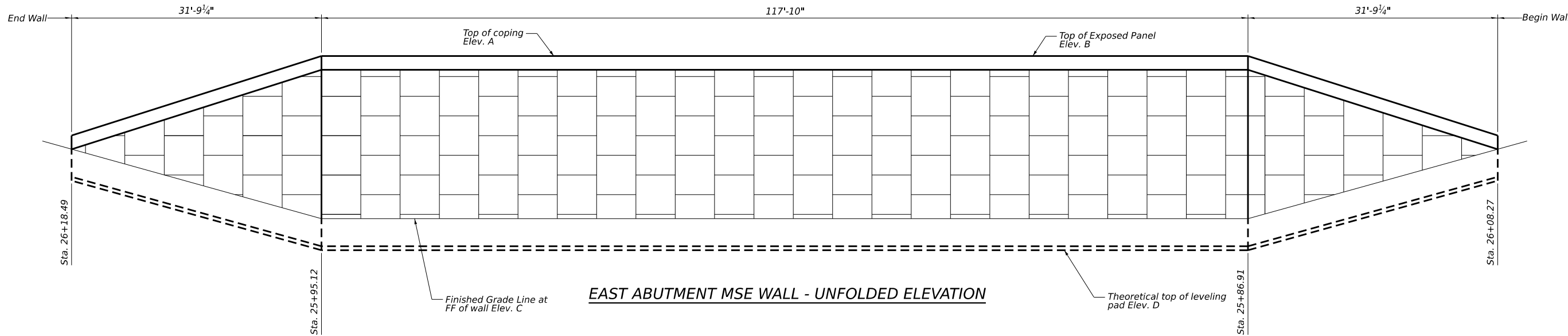
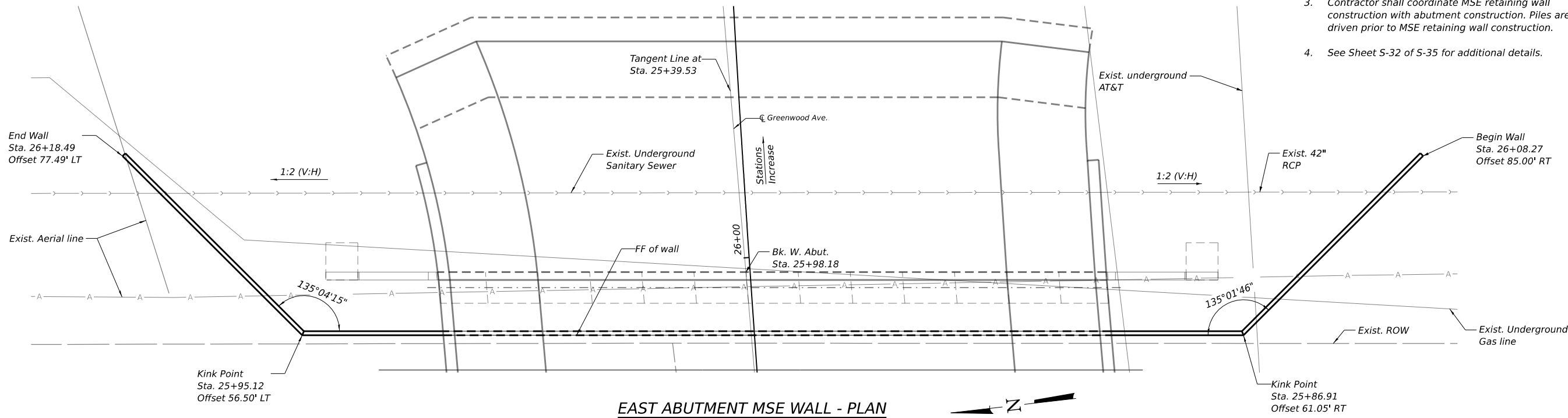
**WEST MSE WALL PLAN AND ELEVATION
STRUCTURE NO. 049-8001**

SHEET S-30 OF S-35 SHEETS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	55
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

NOTES:

1. Wall stations offsets are given to the front face of wall and are measured from the CL of Greenwood Ave.
2. Horizontal dimensions measured along front face of precast panels.
3. Contractor shall coordinate MSE retaining wall construction with abutment construction. Piles are to be driven prior to MSE retaining wall construction.
4. See Sheet S-32 of S-35 for additional details.



EAST ABUTMENT MSE WALL ELEVATIONS TABLE

Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D
26+08.27	85.00' Rt.	602.39	600.64	600.64	597.14
25+86.91	61.05' Rt.	610.86	609.11	590.00	586.50
25+95.12	56.50' Lt.	610.86	609.11	590.00	586.50
26+18.49	77.49' Lt.	602.39	600.64	600.64	597.14

LEGEND:

FF = Front Face

MODEL: Default
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PLOT DATE =	CHECKED - BLB	REVISED -

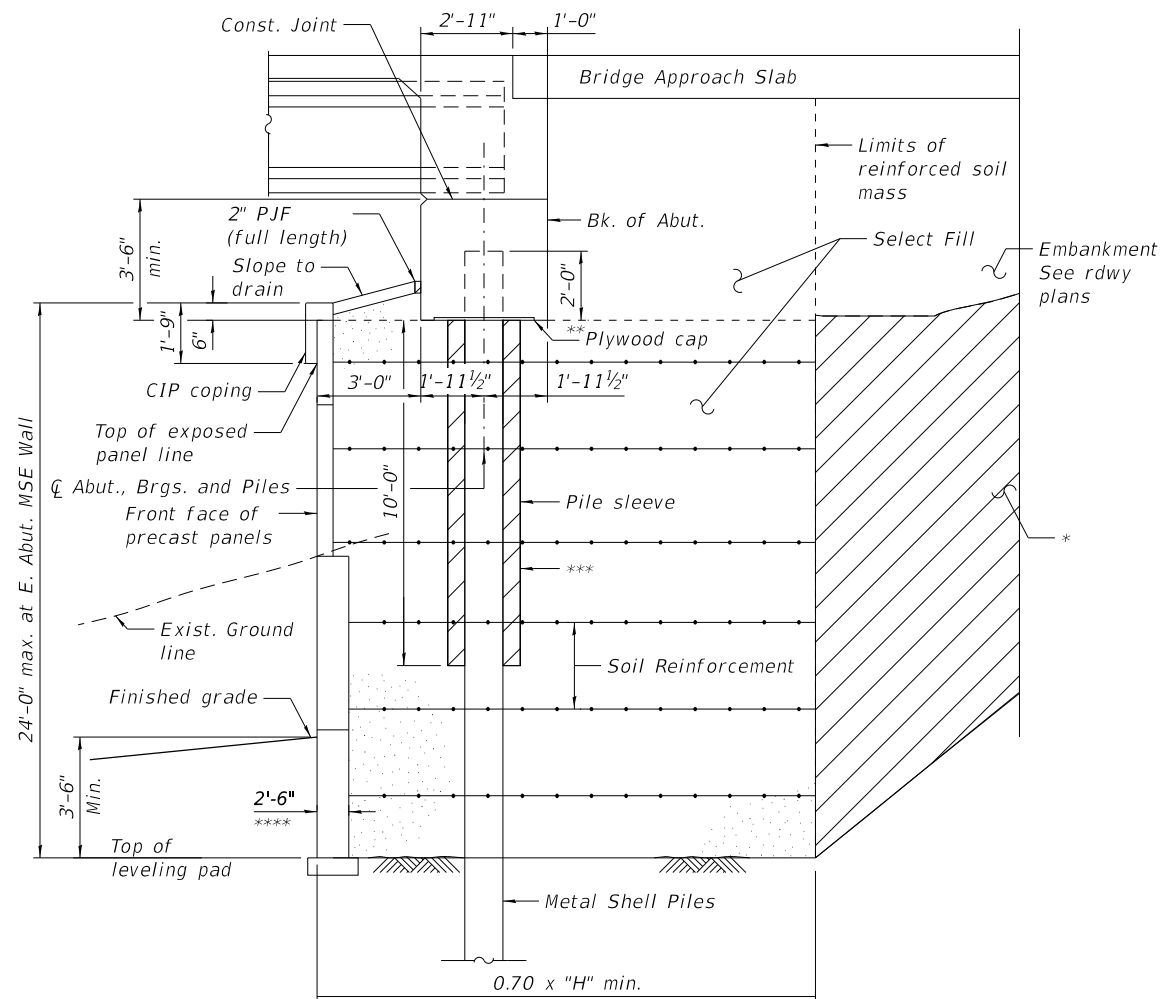
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST MSE WALL PLAN AND ELEVATION
STRUCTURE NO. 049-8001

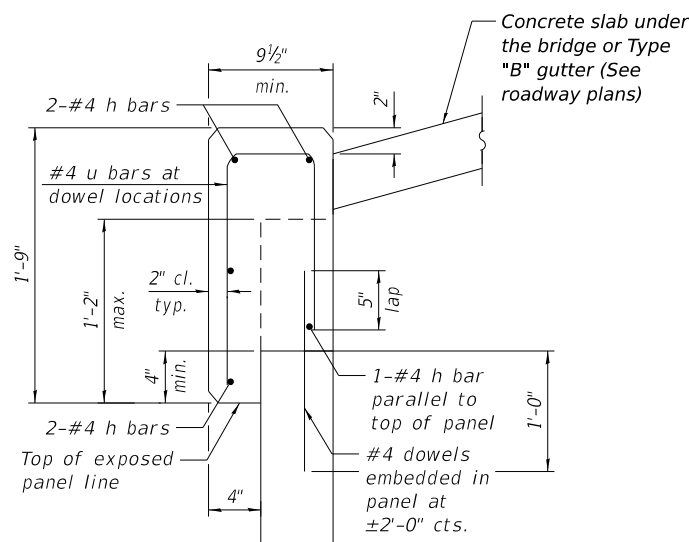
SHEET S-31 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	56
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

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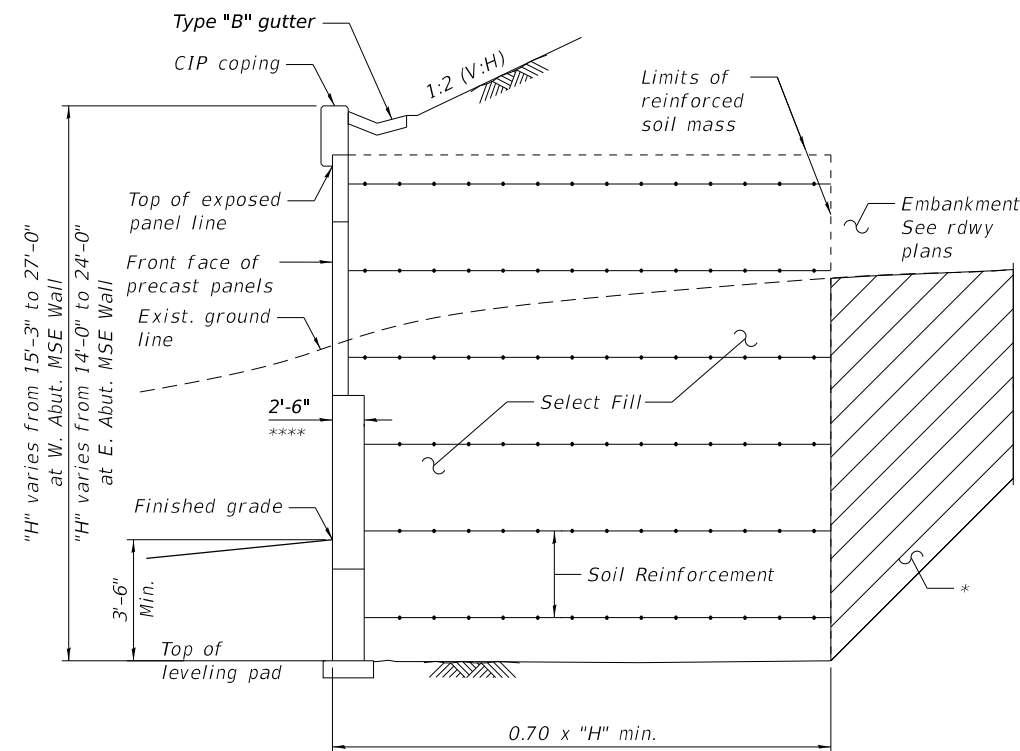
SECTION THRU PILE SUPPORTED ABUTMENT
WITH WRAP-AROUND MSE WALL
(Horiz. dim @ Rt. L's)



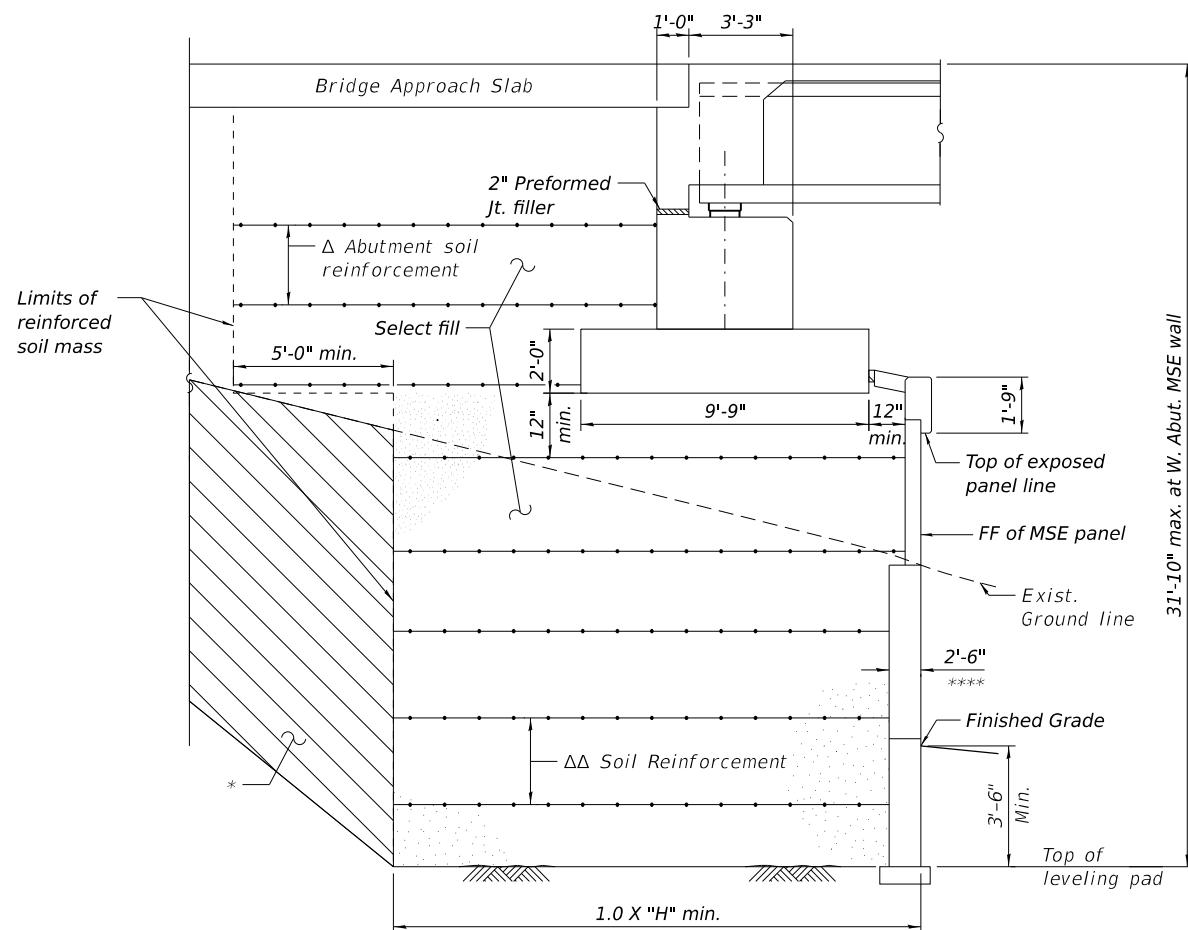
CAST IN PLACE COPING DETAILS

ITEM	UNIT	WB	EB	TOTAL
Structure Excavation	Cu. Yd.	3761	1787	5548
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	4103	3781	7884

- * Overexcavation beyond Structure Excavation. This area not measured for payment. BackFill overexcavation with same material used for Select Fill used in MSE wall.
- ** Bottom of cap poured against top of plywood. Cut opening to match pile perimeter within 1/8". Support with bars tack welded to webs rated for 500 lbs. Seal gaps to keep concrete out.
- *** Sleeve to remain empty in hatched region.
- **** MSE Panels within 50'-0" of Track 1 or Track 2 shall be 2'-6" thick, to a height of at least 12'-0" above top of rail.



SECTION THRU M.S.E. WALL
(Typ. at all 4 corners of the wall)



SECTION THRU SPREAD FOOTING ABUTMENT
WITH WRAP-AROUND MSE WALL
(Horiz. dim @ Rt. L's)

Δ The MSE wall supplier shall design the abutment soil reinforcement to resist a horizontal service load force of 6.6 kips/ft. of abutment.

ΔΔ The MSE wall supplier's internal stability design shall account for the footing's service load bearing pressure surcharge of 4.6 ksf and horizontal service load sliding force of 1.8 kips/ft. of abutment.

NOTES:

- Select Fill behind the retaining walls and abutments shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.
- Cost of cast-in-place concrete, reinforcement steel, epoxy coated, PJP, sealant and Concrete Seal required for coping shall be included in the cost of Mechanically Stabilized Earth Retaining Wall.

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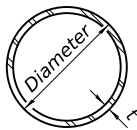
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PLOT DATE =	CHECKED - BLB	REVISED -

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MSE WALL DETAILS
STRUCTURE NO. 049-8001

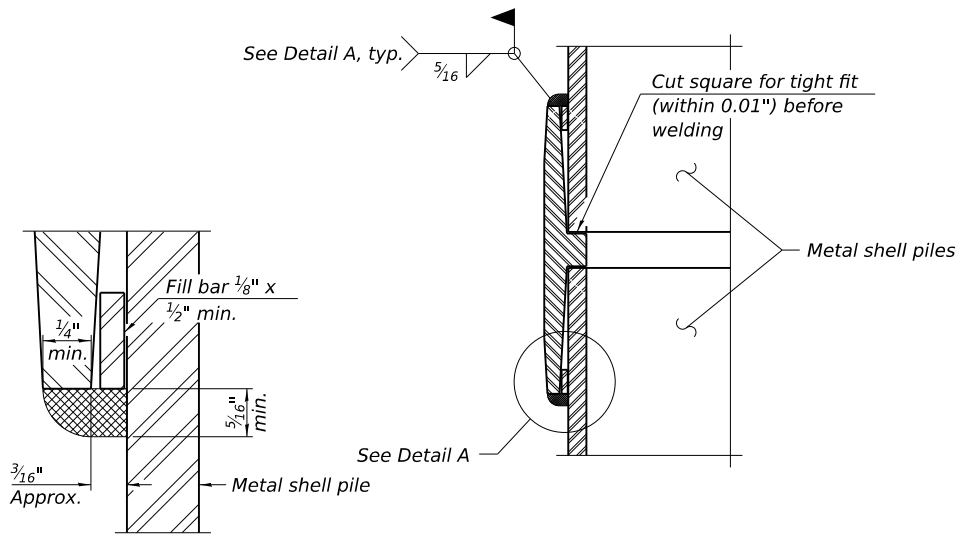
SHEET S-32 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	57
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

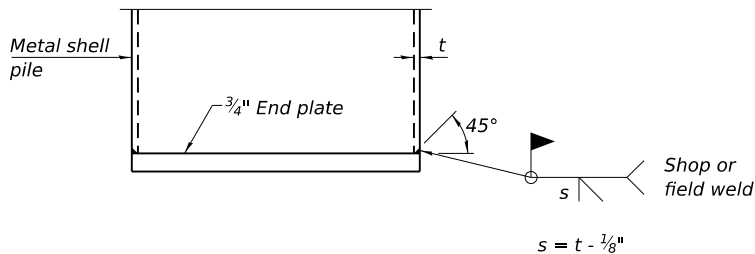


METAL SHELL PILE TABLE

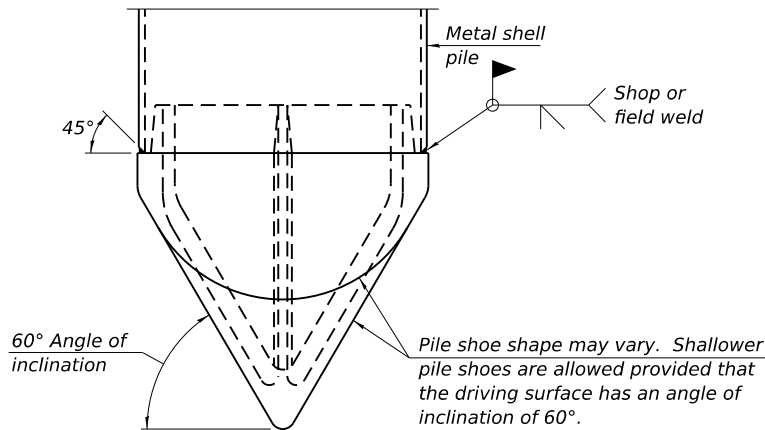
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A



END PLATE ATTACHMENT

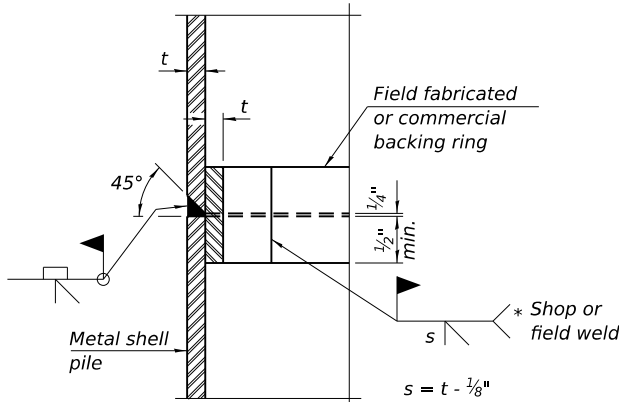


PILE SHOE ATTACHMENT

(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).

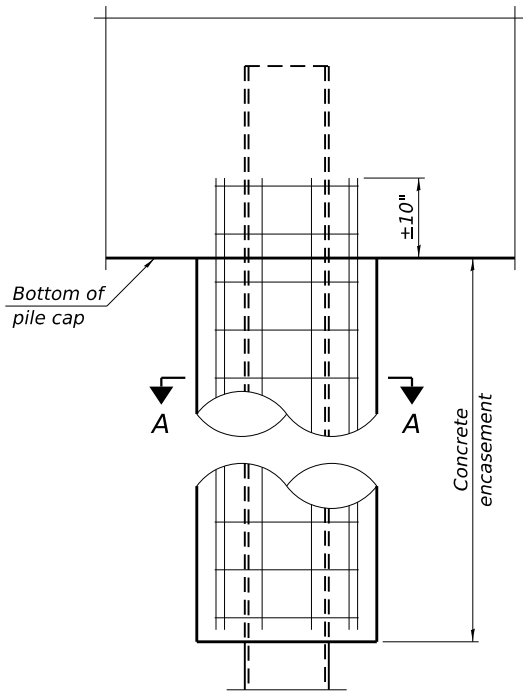
WELDED COMMERCIAL SPLICE

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.

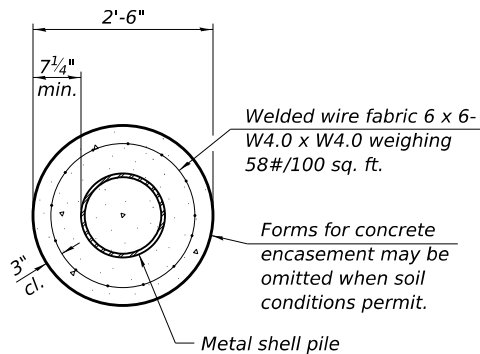


COMPLETE PENETRATION WELD SPLICE

* 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.

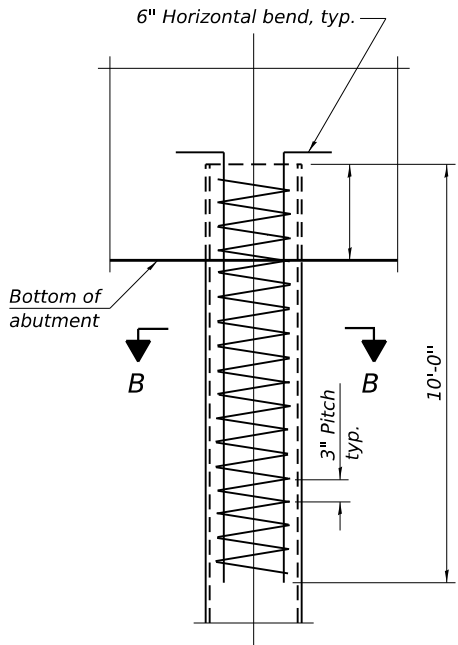


ELEVATION

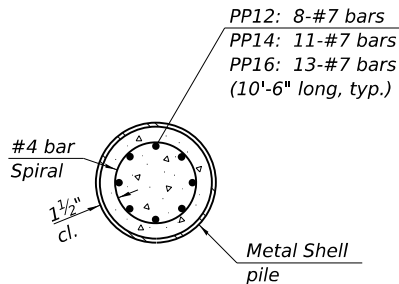


SECTION A-A

INDIVIDUAL PILE
CONCRETE ENCASEMENT
(When specified)



ELEVATION



SECTION B-B

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

5-15-2023

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DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 049-8001

SHEET S-33 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	58
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\WAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\Sheets\Structural\191414-ORD-534-BoringLog(Sht1).dgn



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BORING LOG BSB-01

WEI Job No.: 132-12-01

Client

Baxter & Woodman Consulting Engineers

Project

Greenwood Ave over UP Railroad

Location

Waukegan, Illinois

Datum: NAVD 88
Elevation: 619.72 ft
North: 2083162.08 ft
East: 1121684.78 ft
Station: NA
Offset: NA

Page 1 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	619.0	9-inch thick ASPHALT --PAVEMENT--															
		Dense, gray and black SANDY LOAM, trace gravel; dry			1	5 32 14	NP	32						11	9 20 22	NP	32
	616.7	--FILL-- --RDR 2--															
		Medium dense to very dense, black SILT, trace gravel; dry to saturated			2	4 5 15	NP	21		590.5	Very dense, gray GRAVELLY SANDY LOAM; saturated	30		12	9 13 30	NP	43
		--FILL-- --RDR 2--															
		--resumed drilling from 38.5 feet; mud water level 6.0 feet--			3	10 14 19	NP	21			--rig chatter; possible cobbles--						
					4	12 15 16	NP	20						13	50/4"	NP	25
					5	9 18 18	NP	31			--rig chatter; possible cobbles--						
					6	20 16 12	NP	36		583.0	Medium dense to very dense, gray, fine to coarse SAND, trace gravel; saturated			14	9 12 14	NP	22
					7	11 39 50/2"	NP	34			--RDR 2-3--						
					8	10 25 26	NP	35						15	21 27 24	NP	21
					9	11 50/5"	NP	31									
					10	46 26 26	NP	37						16	11 23 23	NP	22
GENERAL NOTES									WATER LEVEL DATA								
Begin Drilling 10-19-2021 Complete Drilling 10-27-2021									While Drilling 13.00 ft								
Drilling Contractor Wang Testing Services Drill Rig 20CME55T[81%]									At Completion of Drilling 10' MUD								
Driller RR&AG Logger A. Scifers Checked by C. Marin									Time After Drilling NA								
Drilling Method 2.25" ID HSA to 10', mud rotary thereafter; boring backfilled upon completion									Depth to Water NA								
									The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.								



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BORING LOG BSB-01

WEI Job No.: 132-12-01

Client

Baxter & Woodman Consulting Engineers

Project

Greenwood Ave over UP Railroad

Location

Waukegan, Illinois

Datum: NAVD 88
Elevation: 619.72 ft
North: 2083162.08 ft
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Station: NA
Offset: NA

Page 2 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--rig chatter to 52.5 feet; possible cobbles--															
	567.2	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp to moist															
		--RDR 2--			17	20 30 39	> 4.50 P	10		539.7	Boring terminated at 80.00 ft	80		22	11 25 39	2.13 B	18
					18	22 46 50/5"	> 4.50 P	16									
		--L _L (%)=24, P _L (%)=12-- --%Gravel=6.5-- --%Sand=10.3--65 --%Silt=62.3-- --%Clay=20.9--			19	8 18 22	> 4.50 P	13									
					20	11 23 27	7.22 B	17									
					21	14 39 47	> 4.50 P	12									
GENERAL NOTES									WATER LEVEL DATA								
Begin Drilling 10-19-2021 Complete Drilling 10-27-2021									While Drilling 13.00 ft								
Drilling Contractor Wang Testing Services Drill Rig 20CME55T[81%]									At Completion of Drilling 10' MUD								
Driller RR&AG Logger A. Scifers Checked by C. Marin									Time After Drilling NA								
Drilling Method 2.25" ID HSA to 10', mud rotary thereafter; boring backfilled upon completion									Depth to Water NA								
									The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.								



USER NAME =	DESIGNED - EBK	REVISED -
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PLOT DATE =	CHECKED - BLB	REVISED -

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DEPARTMENT OF TRANSPORTATION

BORING LOG (SHEET 1 OF 2)
STRUCTURE NO. 049-8001

SHEET S-34 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	59
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: P:\WAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\Sheets\Structural\191414-ORD-535-BoringLog(Sht2).dgn



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BORING LOG BSB-02

WEI Job No.: 132-12-01

Client

Baxter & Woodman Consulting Engineers

Project

Greenwood Ave over UP Railroad

Location

Waukegan, Illinois

Datum: NAVD 88
Elevation: 611.56 ft
North: 2083240.44 ft
East: 1121948.82 ft
Station: NA
Offset: NA

Page 1 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	610.6	12-inch thick ASPHALT --PAVEMENT--								586.1	Medium dense to very dense, gray, fine to medium SAND, trace gravel; saturated						
		Medium dense to very dense, black and dark gray SILTY LOAM, trace gravel, trace organic matter, trace slag; dry to damp			1	7 5 7	NP	35			--RDR 2-3--			11	6 11 13	NP	22
		--FILL--			2	17 11 12	NP	24			--RDR 2-3--			12	12 15 16	NP	23
		--RDR 2--			3	50/5"	NP	26			--3.5-inch thick, black organic rich silt--						
		--L _L (%)=NP, P _L (%)=NP--			4	9 12 13	NP	21						13	24 34 34	NP	19
		--%Gravel=0.1--			5	7 7 6	NP	24									
		--%Sand=19.0--			6	7 9 17	NP	28						14	19 24 27	NP	23
		--%Silt=78.4--			7	11 8 6	NP	33						15	18 23 22	NP	22
		--%Clay=2.4--			8	50/5"	NP	30			--rig chatter; possible cobbles--						
		--A-4 (0)--			9	21 28 31	NP	26		564.8	Hard, gray SILTY CLAY, trace gravel; damp			16	28 50/5"	4.10 B	16
	596.1	Medium dense to very dense, dark gray to gray SILT to SILTY LOAM, trace gravel; saturated			10	21 50/3"	NP	34		562.5	Very dense, gray SILT to SILTY						
		--RDR 2--									--RDR 2-3--						
GENERAL NOTES																	
WATER LEVEL DATA																	
Begin Drilling 10-18-2021 Complete Drilling 10-18-2021 While Drilling 15.50 ft																	
Drilling Contractor Wang Testing Services Drill Rig 20CME55T[81%] At Completion of Drilling 10' MUD																	
Driller RR&AG Logger A. Scifers Checked by C. Marin Time After Drilling NA																	
Drilling Method 2.25" ID HSA to 10', mud rotary thereafter; boring Depth to Water NA																	
backfilled upon completion The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.																	



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BORING LOG BSB-02

WEI Job No.: 132-12-01

Client

Baxter & Woodman Consulting Engineers

Project

Greenwood Ave over UP Railroad

Location

Waukegan, Illinois

Datum: NAVD 88
Elevation: 611.56 ft
North: 2083240.44 ft
East: 1121948.82 ft
Station: NA
Offset: NA

Page 2 of 2

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		LOAM, trace gravel; damp to moist									--rig chatter; possible cobbles--						
		--RDR 2-3--			17	50/3"	NP	11						22	8 16 21	4.51 B	16
		--rig chatter; possible cobbles--															
	554.8	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp			18	10 38 43	6.97 B	12						23	13 22 24	2.71 B	16
	552.1	Very dense, gray SILTY LOAM, trace gravel; moist			19	10 19 50/4"	5.33 B	15						24	12 19 23	1.39 B	16
	549.8	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp								521.6	Boring terminated at 90.00 ft						
		--RDR 2-3--			20	19 25 38	NP	25									
	544.8	Very dense, gray SILTY LOAM, trace gravel; moist															
		--RDR 2--			21	8 15 21	3.36 B	16									
	539.8	Stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; damp to moist															
		--RDR 2-3--															
GENERAL NOTES																	
WATER LEVEL DATA																	
Begin Drilling 10-18-2021 Complete Drilling 10-18-2021 While Drilling 15.50 ft																	
Drilling Contractor Wang Testing Services Drill Rig 20CME55T[81%] At Completion of Drilling 10' MUD																	
Driller RR&AG Logger A. Scifers Checked by C. Marin Time After Drilling NA																	
Drilling Method 2.25" ID HSA to 10', mud rotary thereafter; boring Depth to Water NA																	
backfilled upon completion The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.																	

WANGENG 1321201.GPJ WANGENG.GDT 3/16/22



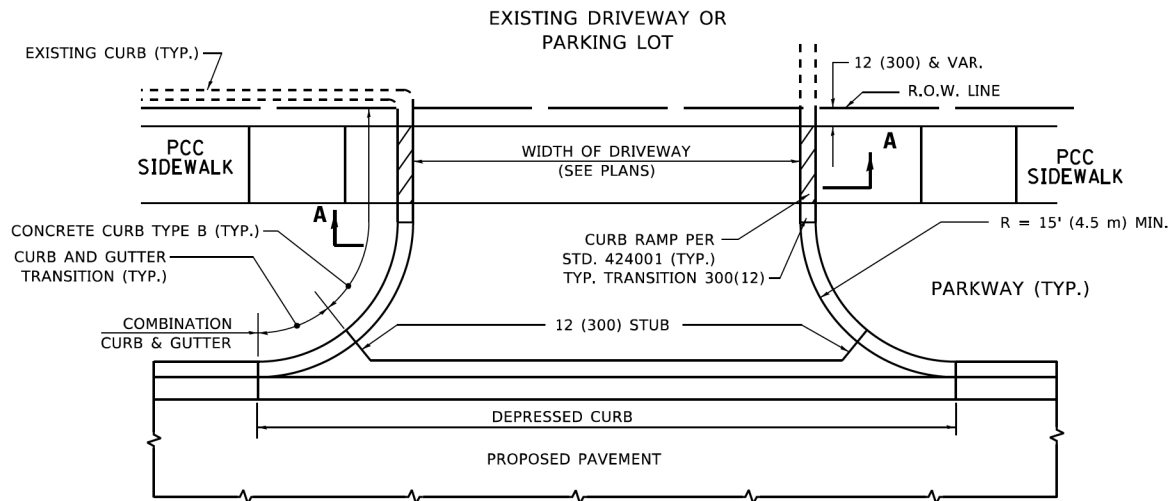
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

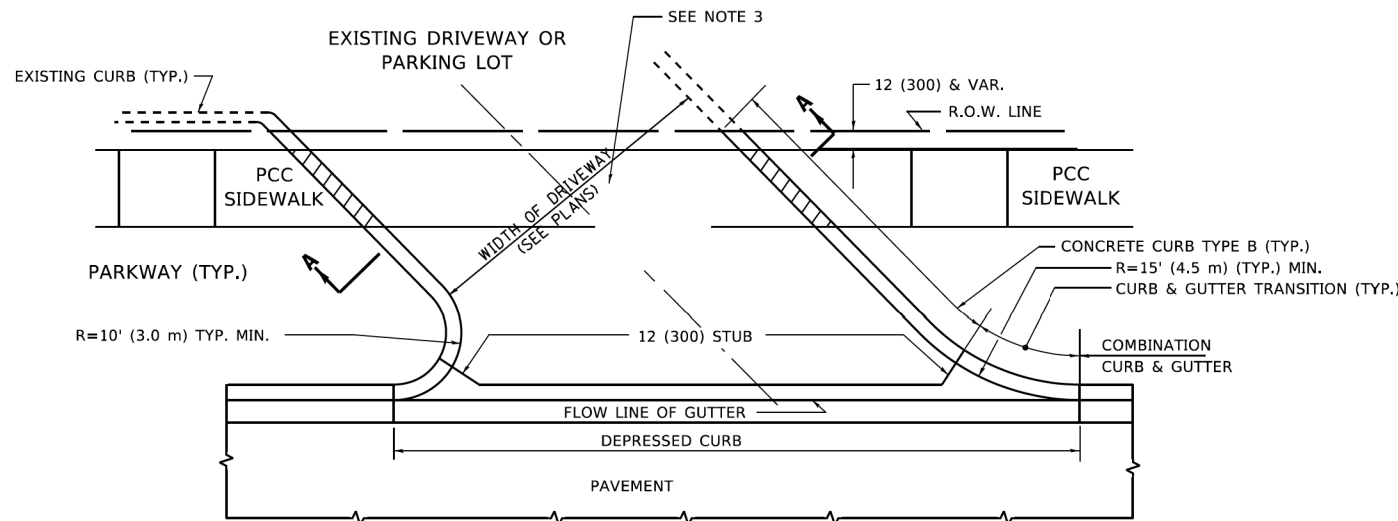
BORING LOG (SHEET 2 OF 2)
STRUCTURE NO. 049-8001

SHEET S-35 OF S-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	60
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B

RIGID DRIVEWAY

COMMERCIAL ENTRANCE (CE):
PCC DRIVEWAY PAVEMENT 8 (200)
MEASURED IN SQ. YD. (m²)

PRIVATE ENTRANCE (PE):
PCC DRIVEWAY PAVEMENT 6 (150)
MEASURED IN SQ. YD. (m²)

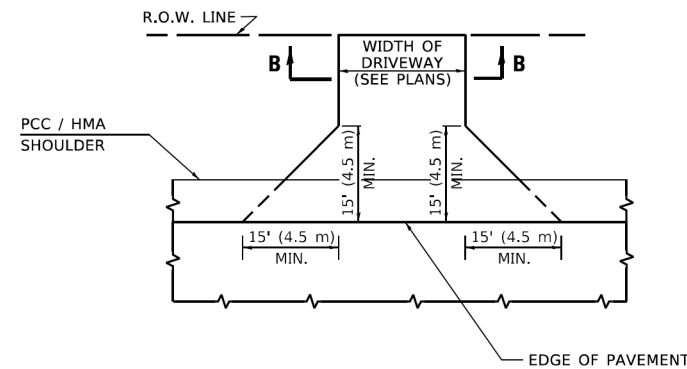
SECTION A-A

HMA DRIVEWAY

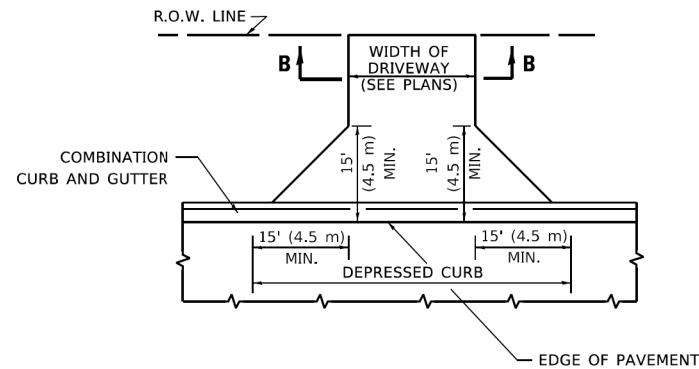
HMA SURFACE COURSE,
MIX "D", IL-9.5, N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

COMMERCIAL ENTRANCE (CE):
HMA BASE COURSE, 8 (200)
MEASURED IN SQ. YD. (m²).

PRIVATE ENTRANCE (PE):
HMA BASE COURSE, 6 (150)
MEASURED IN SQ. YD. (m²).



ADJACENT TO PCC /HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

GENERAL NOTES

1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.
2. COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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DATE: 11/18/2022

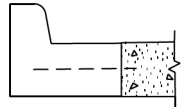
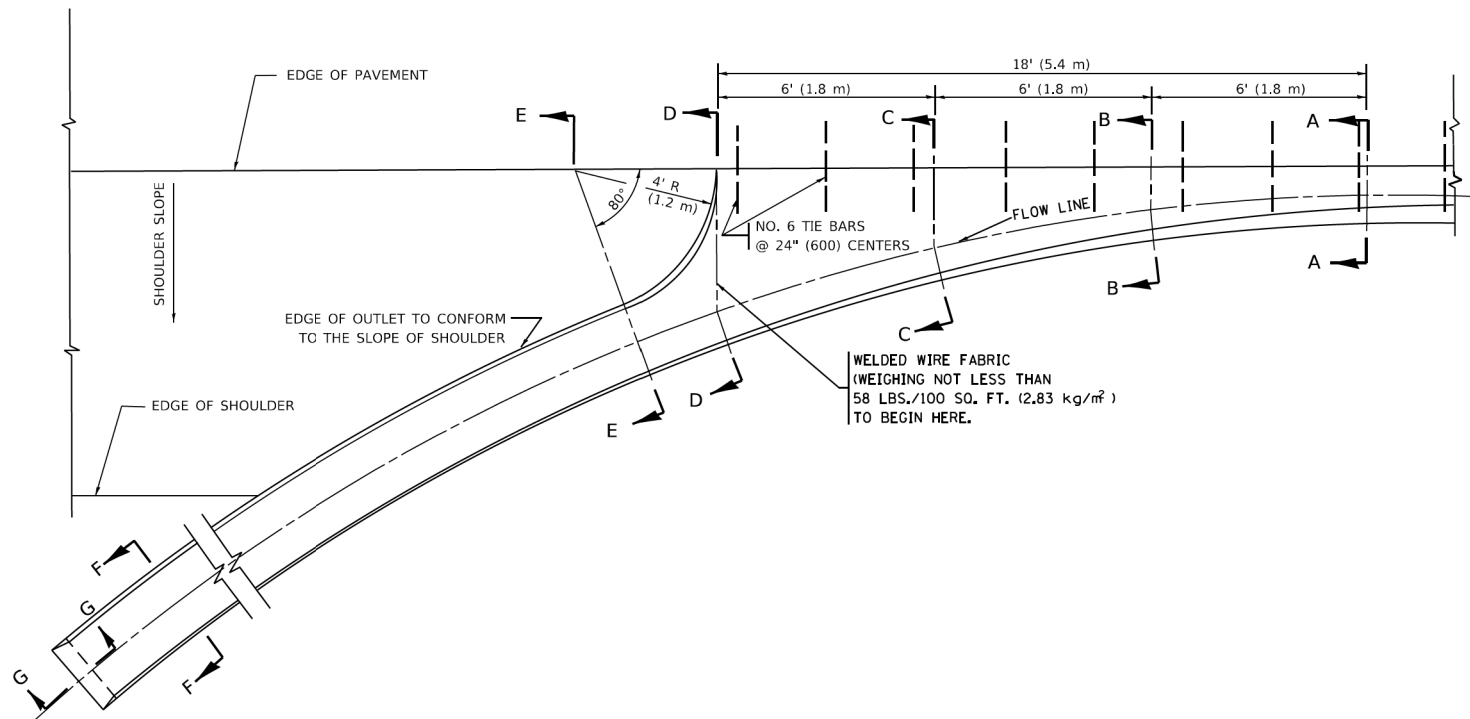
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PLOT DATE = 11/18/2022	DATE - 11-04-95	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)**

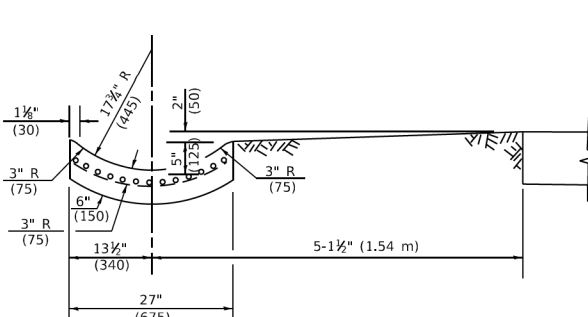
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-01 (BD-01)		CONTRACT NO. 61L19		
		ILLINOIS FED. AID PROJECT		

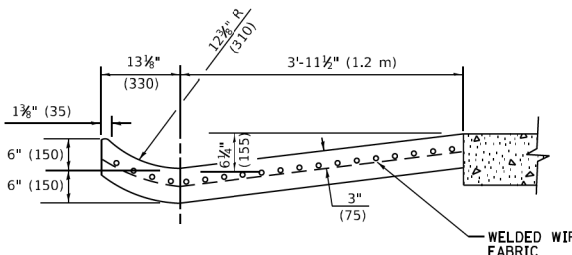


SECTION A-A *

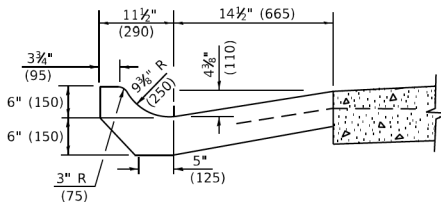
* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



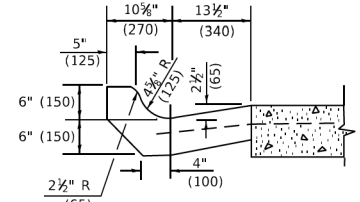
SECTION E-E



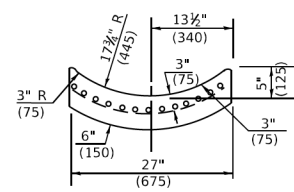
SECTION D-D



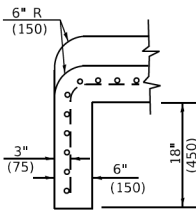
SECTION C-C



SECTION B-B



SECTION F-F



SECTION G-G

GENERAL NOTES

- GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
- TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.
- IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 5' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

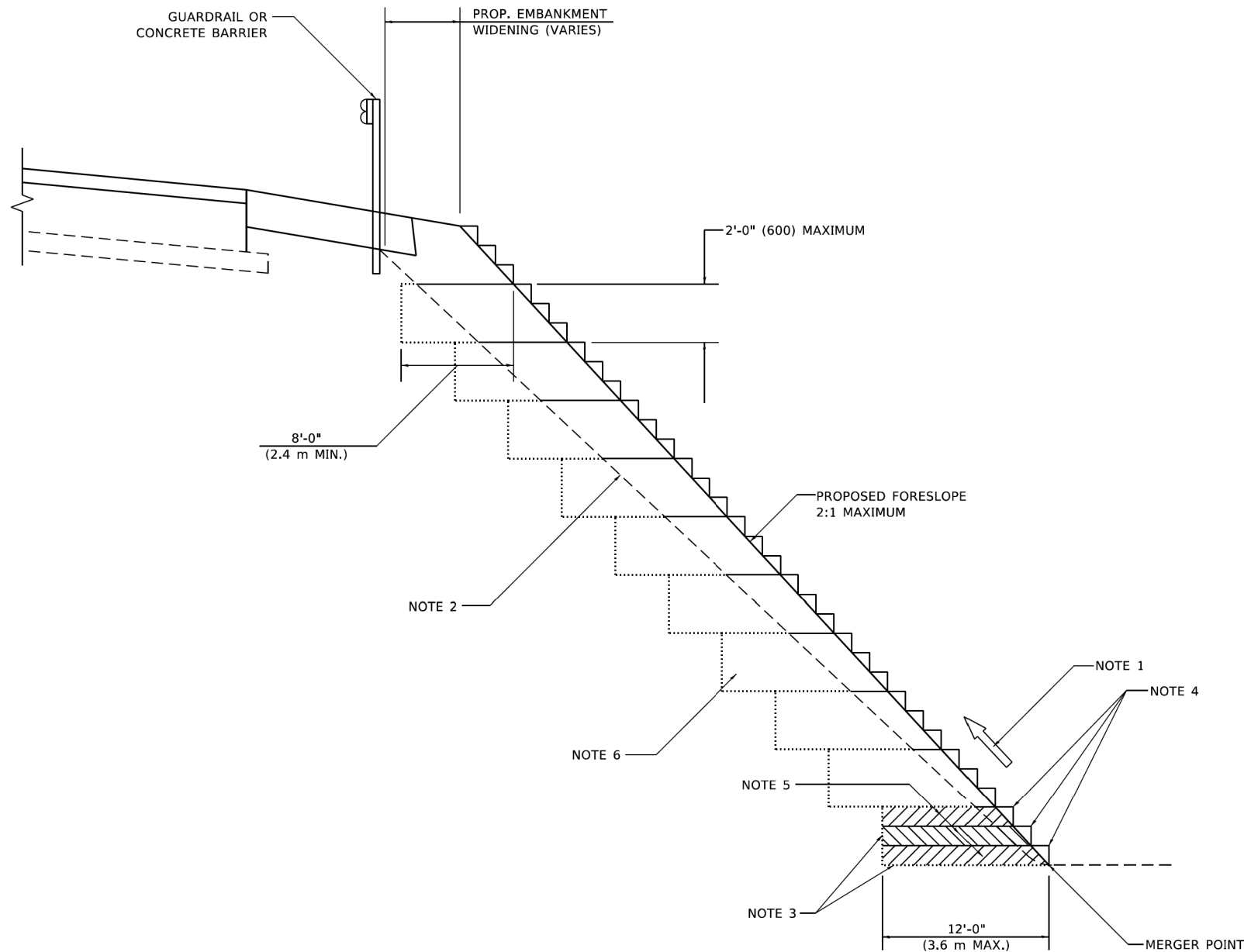
METHOD OF MEASUREMENT

FOR SECTION A-A TO E-E AND CURTAIN WALL=
1.25 CU. YDS. (0.96³m) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.
1.27 CU. YDS. (0.96³m) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.
FOR SECTION F-F=
0.045 CU. YDS. (0.03³m) CLASS SI CONCRETE PER ft. (m).

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

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		DRAWN -	REVISED - E. GOMEZ 12-21-00						3719	20-00243-00-BR	LAKE	78	62
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	PLOT DATE = 11/18/2022	DATE - 08-04-86	REVISED - K. SMITH 11-18-22		ILLINOIS FED. AID PROJECT								
					SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

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	PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



3. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 23#4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

USER NAME = footemj	DESIGNED -	REVISED - 04-22-02
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PLOT DATE = 4/19/2019	DATE -	REVISED -

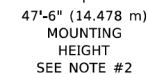
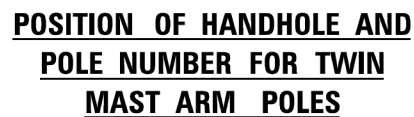
LIGHT POLE FOUNDATION

40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	65
BE-301		CONTRACT NO. 61L19		
		ILLINOIS	FED. AID PROJECT	

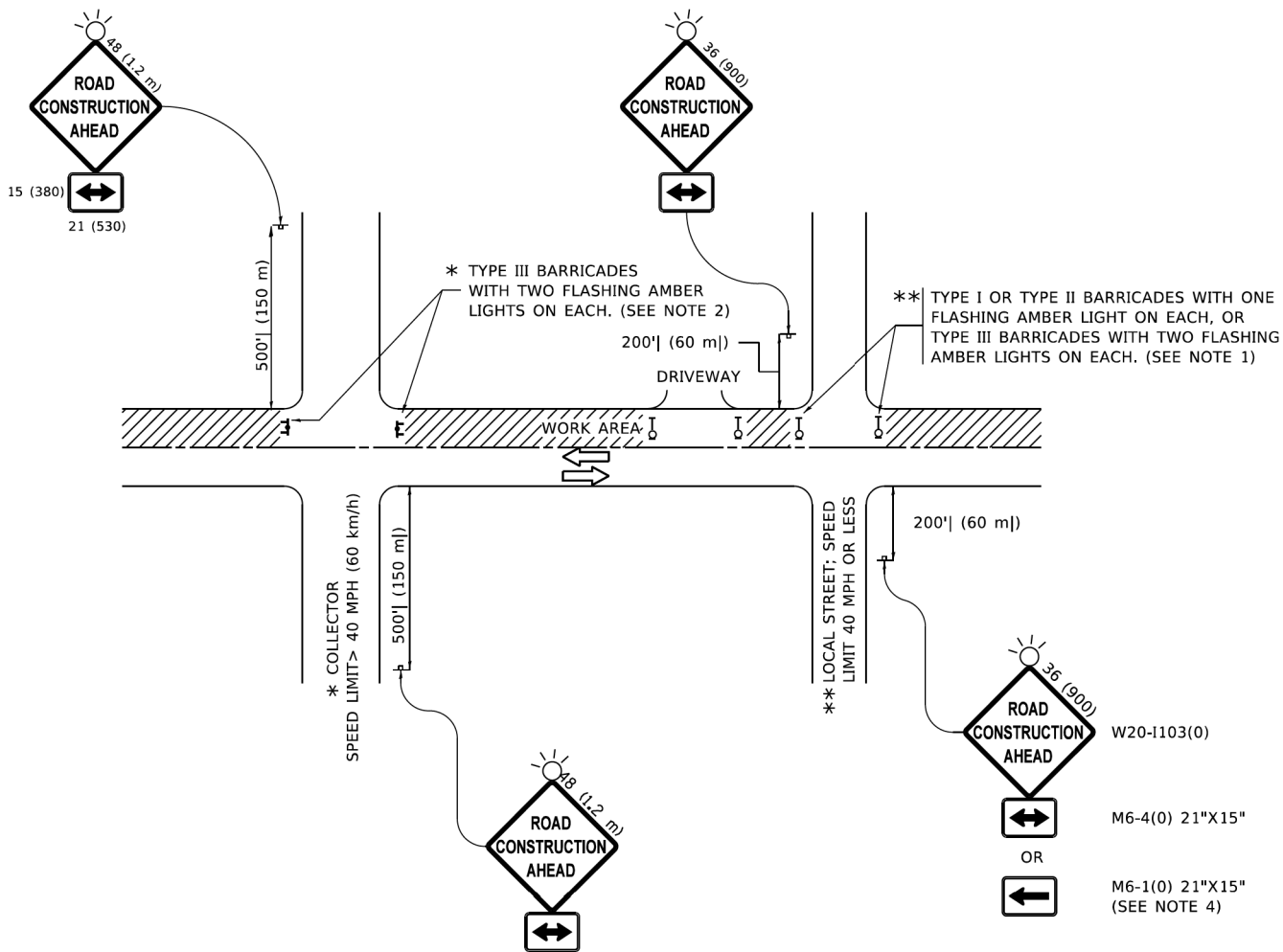
ILLINOIS	FED. AID PROJECT
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1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING DIMENSION IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	66
BE-400		CONTRACT NO. 61L19		
		ILLINOIS	FED. AID PROJECT	

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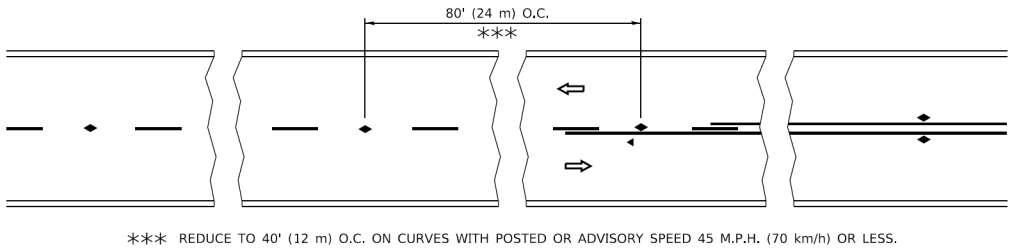
NOTES:

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

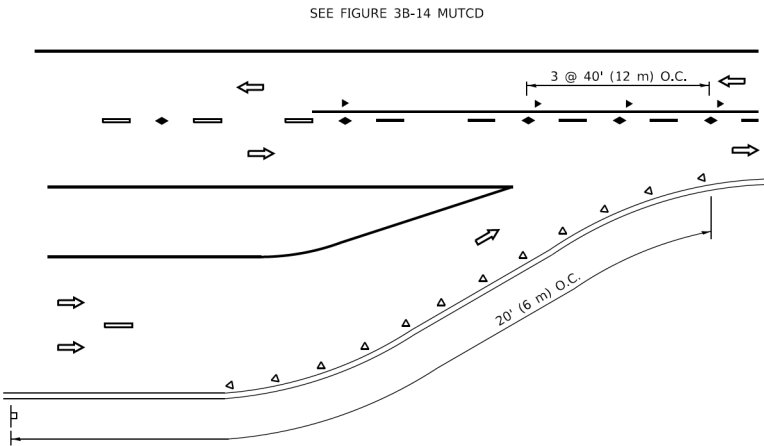
All dimensions are in inches (millimeters) unless otherwise shown.

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		DRAWN -	REVISED - A. SCHUETZE 07-01-13						3719	20-00243-00-BR	LAKE	78	68
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	PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT				

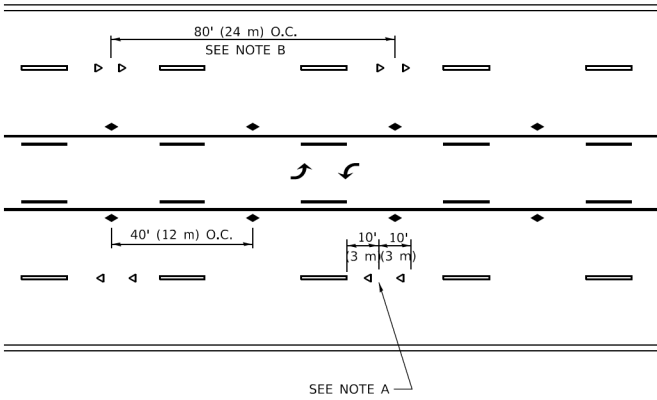
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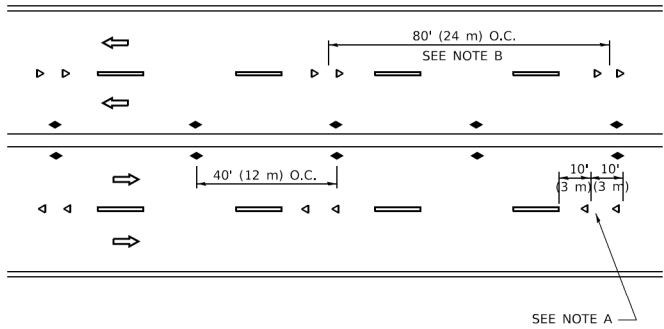
TWO-LANE/TWO-WAY



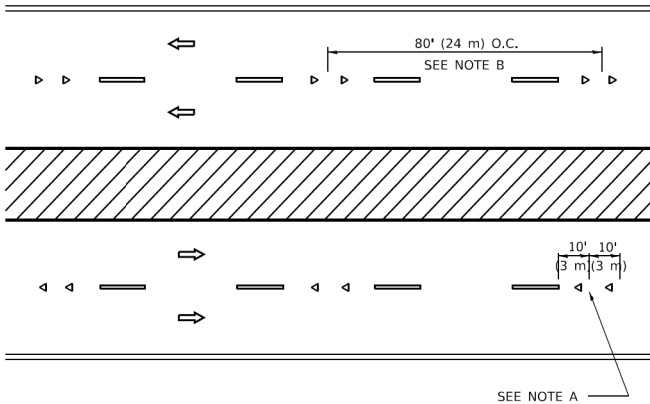
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

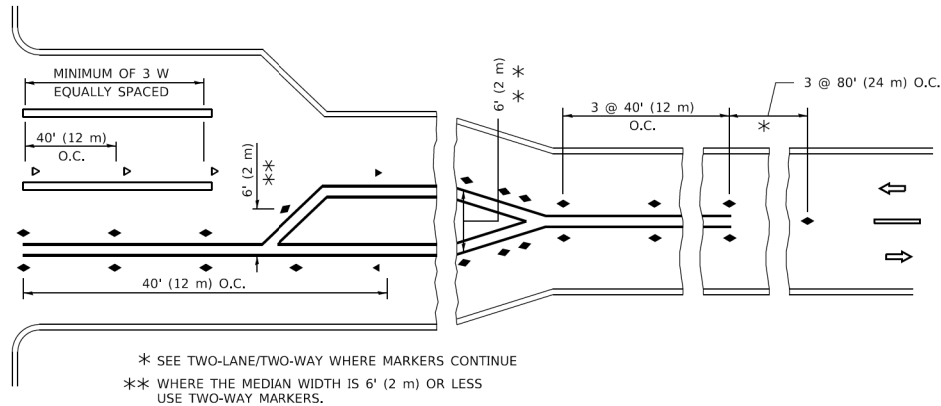
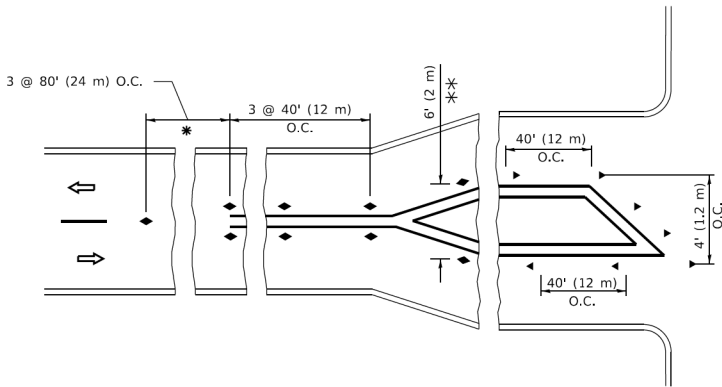
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

DESIGN NOTES

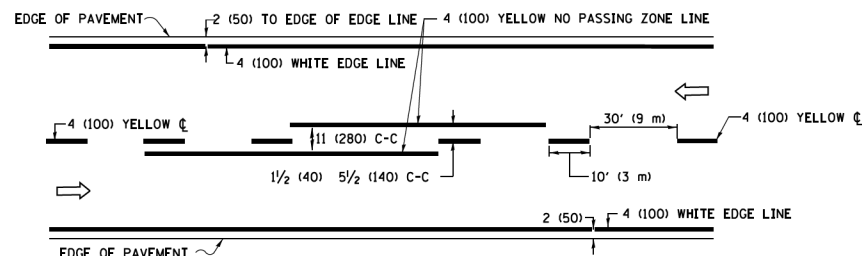
1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS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



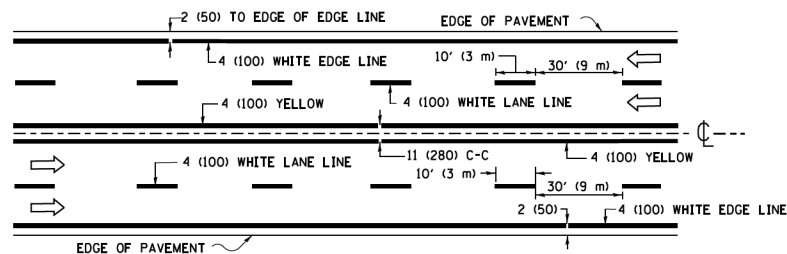
TURN LANES

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

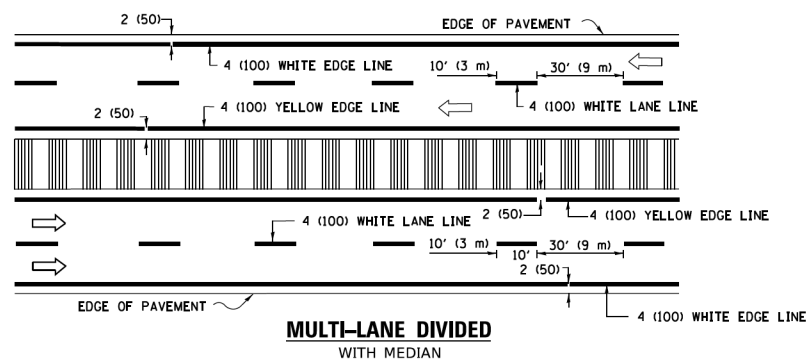
USER NAME = footem]	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								3719	20-00243-00-BR	LAKE	78	69
PLOT SCALE = 50,0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09						TC-11		CONTRACT NO. 61L19		
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13						ILLINOIS		FED. AID PROJECT		



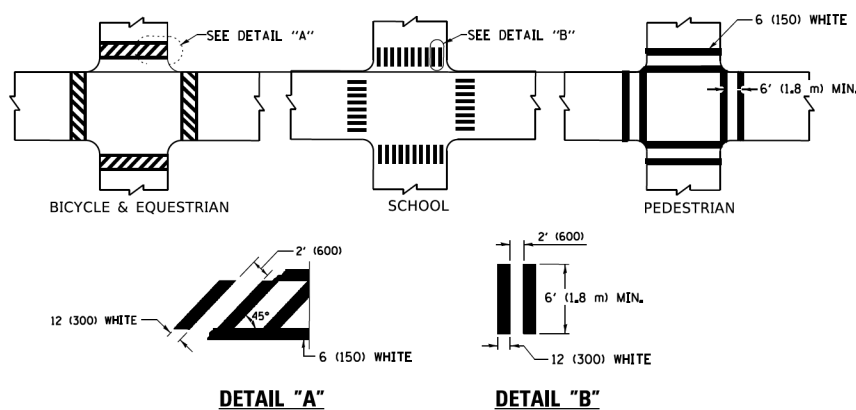
2-LANE ROADWAY



MULTI-LANE UNDIVIDED

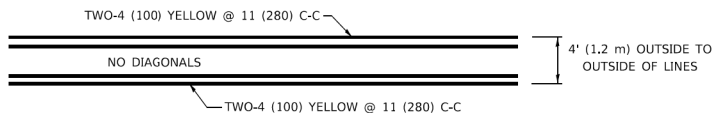


TYPICAL LANE AND EDGE LINE MARKING

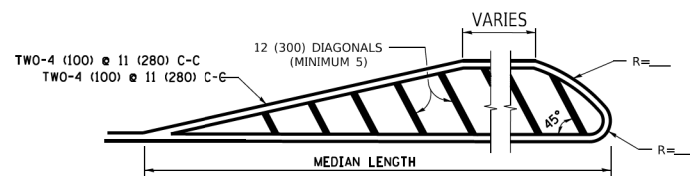


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



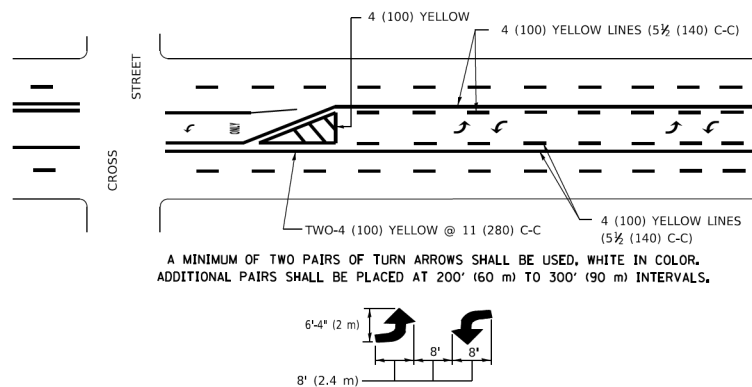
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

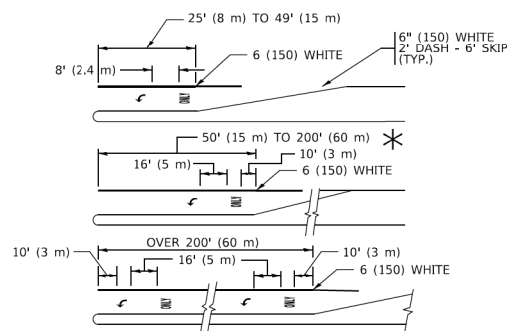
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

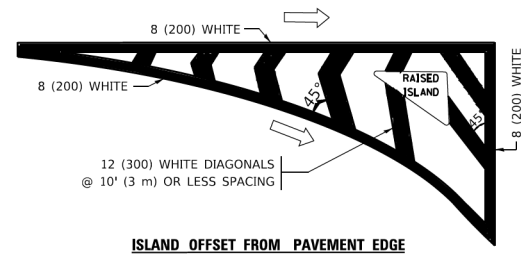


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.

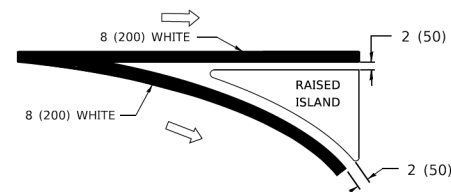
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

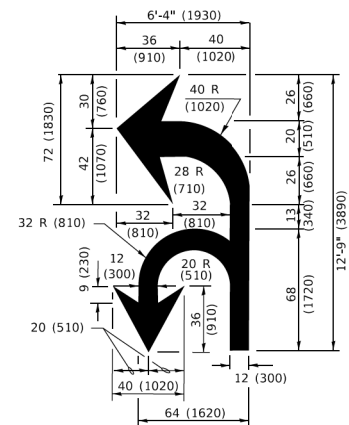


ISLAND OFFSET FROM PAVEMENT EDGE

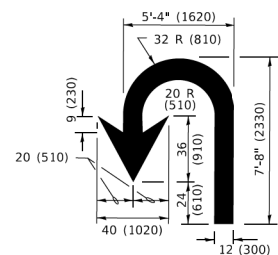


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES; FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ² EACH "X"=54.0 SQ. FT. (5.0 m ²
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

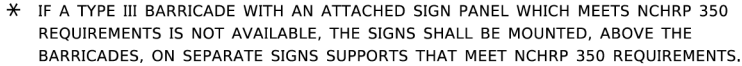
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION AND STATE STANDARD 780001.

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

USER NAME = [footem]	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE = 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

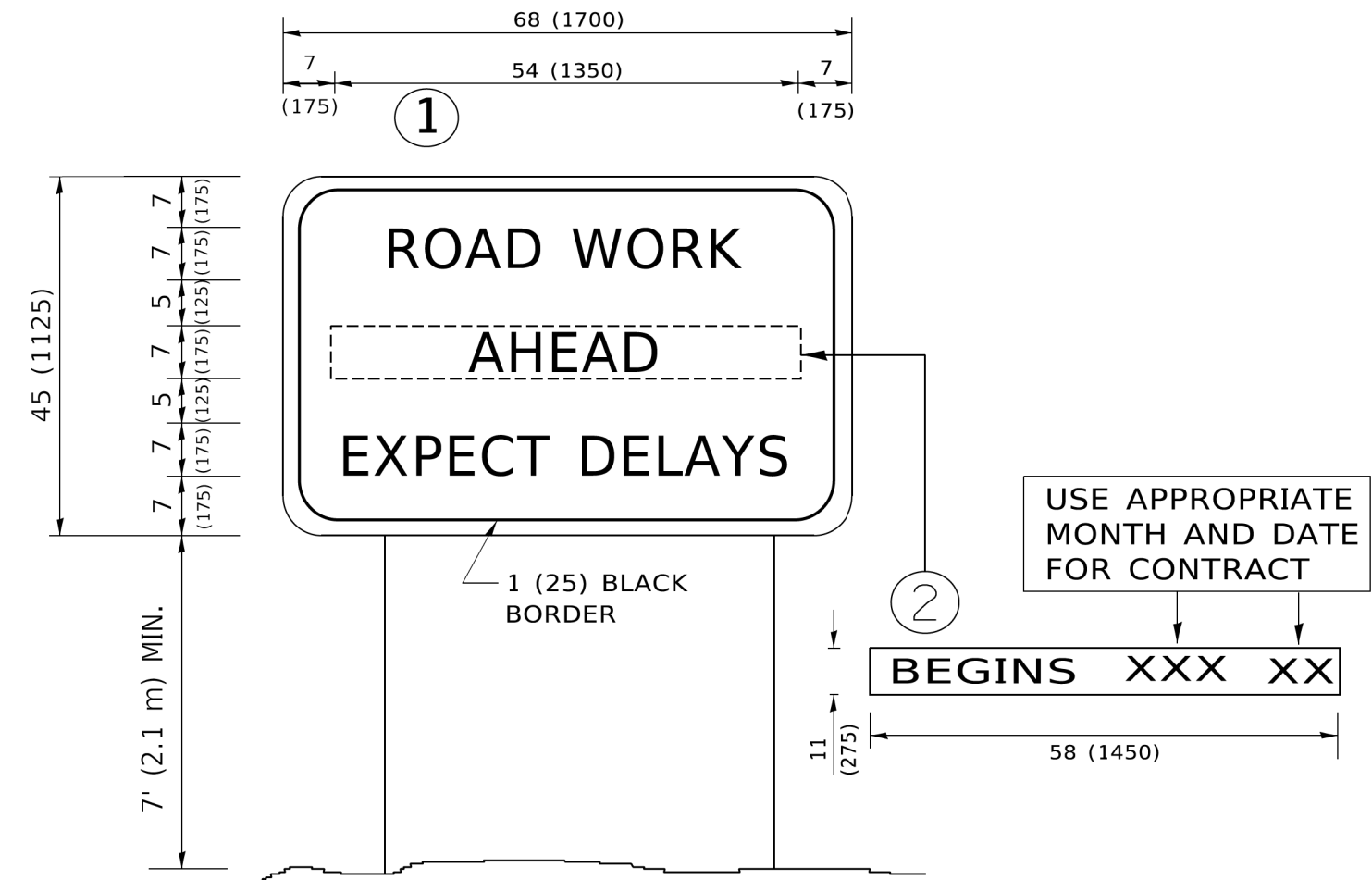
DISTRICT ONE TYPICAL PAVEMENT MARKINGS					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					3719	20-00243-00-BR	LAKE	78	70
					TC-13		CONTRACT NO. 61L19		
						ILLINOIS	FED. AID PROJECT		



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	71
TC-21		CONTRACT NO. 61119		
ILLINOIS		FED. AID PROJECT		

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NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN①WITH INSTALLED PANEL②ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL②SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

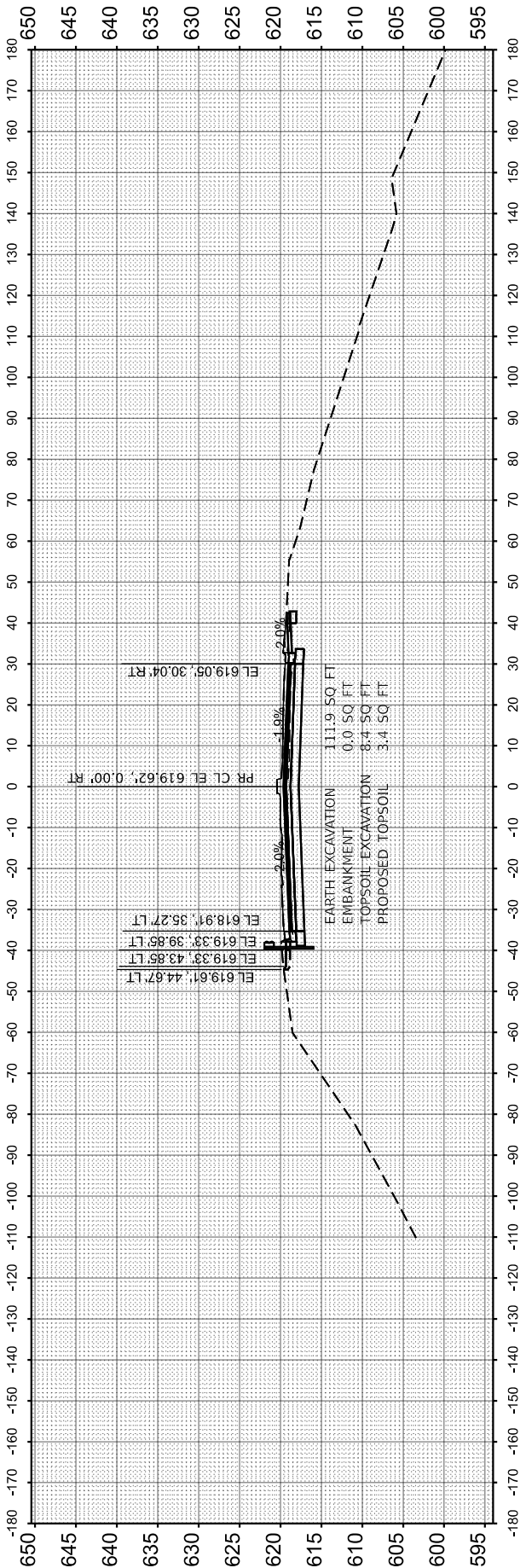
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

	USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97						3719	20-00243-00-BR	LAKE	78	72
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 02-02-99						TC-22		CONTRACT NO. 61L19		
	PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07		ILLINOIS FED. AID PROJECT								
					SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.				

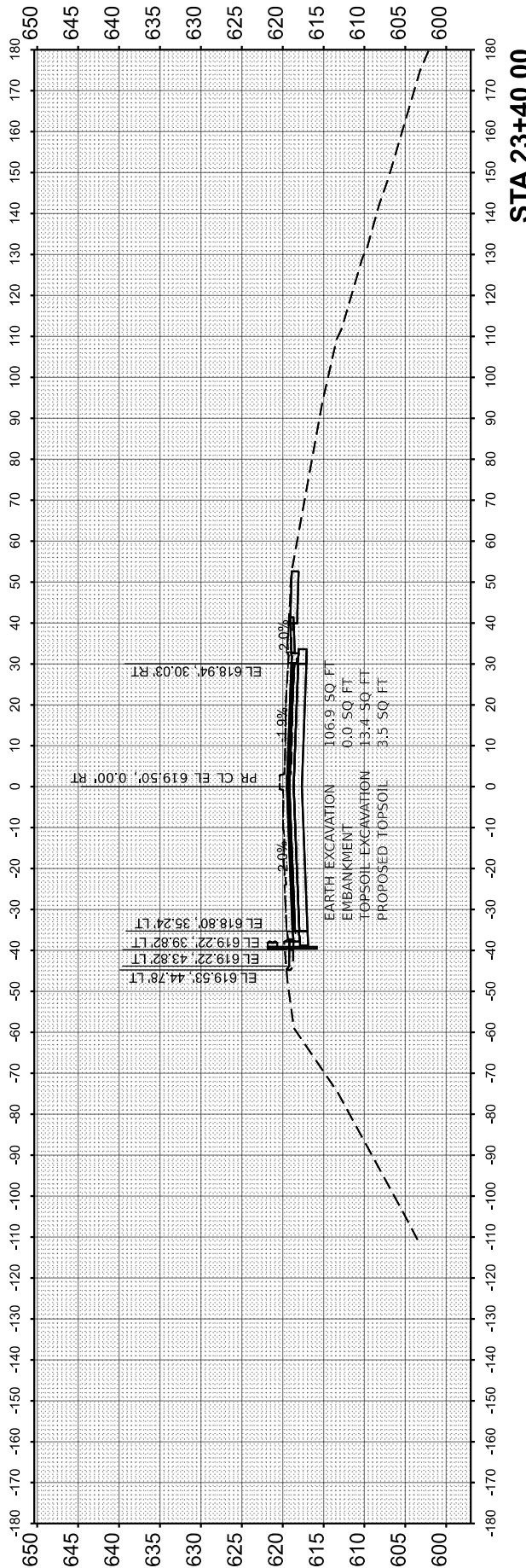
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ORIGINAL SURVEY	SURVEYED PLOTTED TEMPLATE	BY	DATE
NO.	AREAS CHECKED		

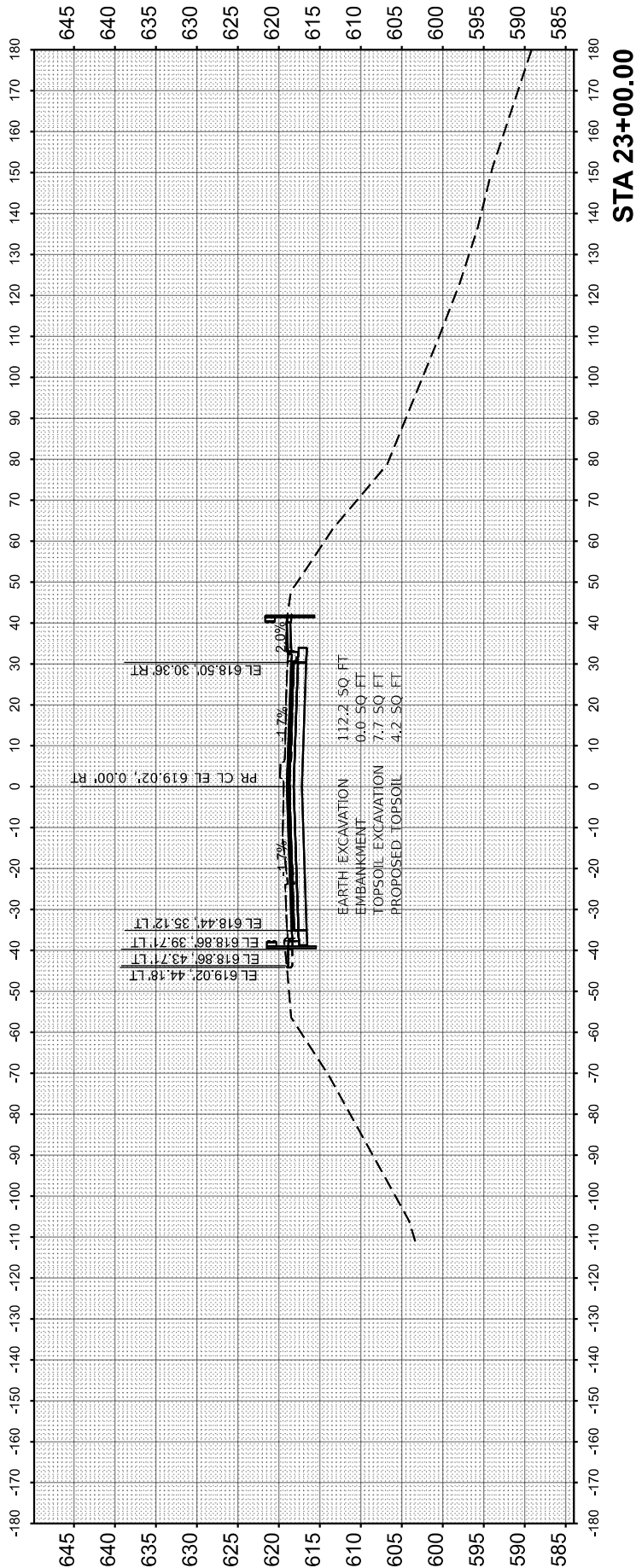
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NO.	AREAS CHECKED		



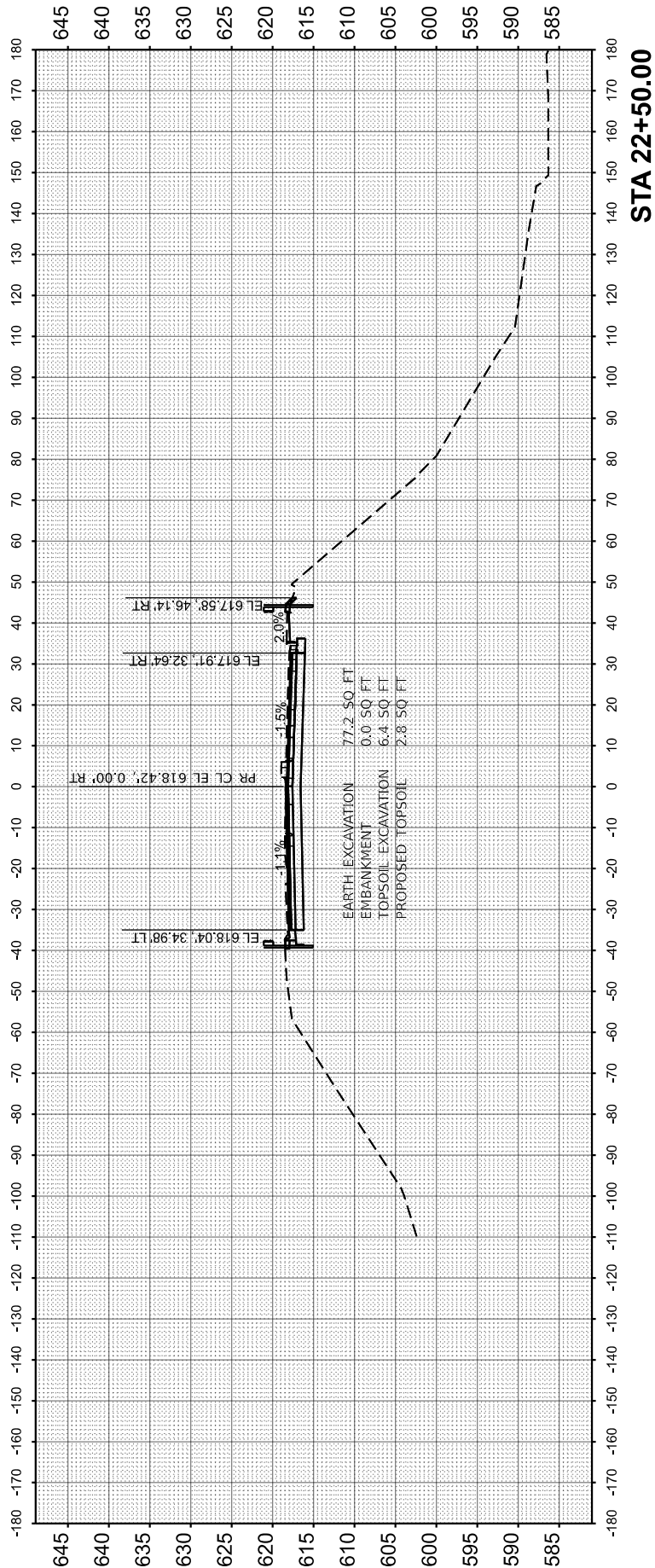
STA 23+50.00



STA 23+40.00



STA 23+00.00



STA 22+50.00

USER NAME = vhernandez	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/23/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GREENWOOD AVENUE

SCALE: 1"=20' SHEET 1 OF 4 SHEETS STA. 22+50.00 TO STA. 23+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	73
CONTRACT NO. 61L19				
ILLINOIS FED.AID PROJECT				

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

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

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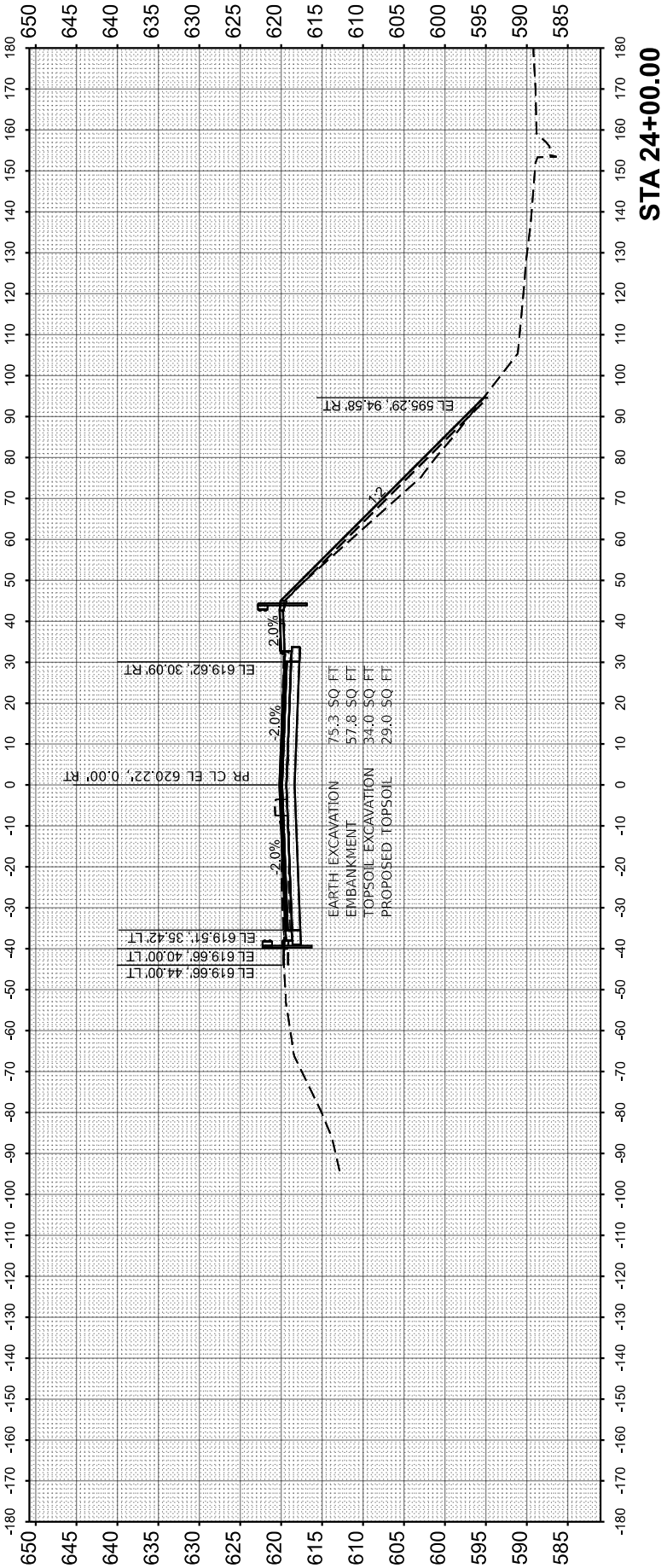
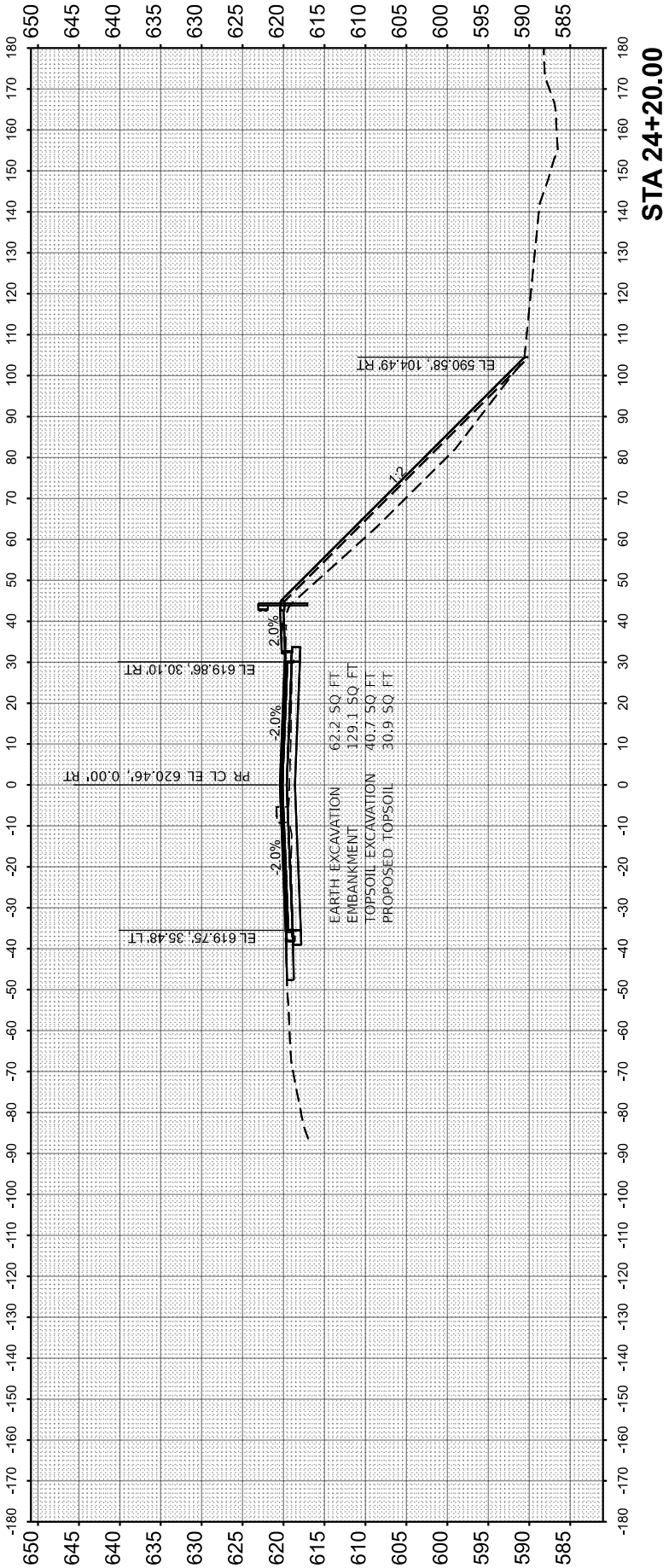
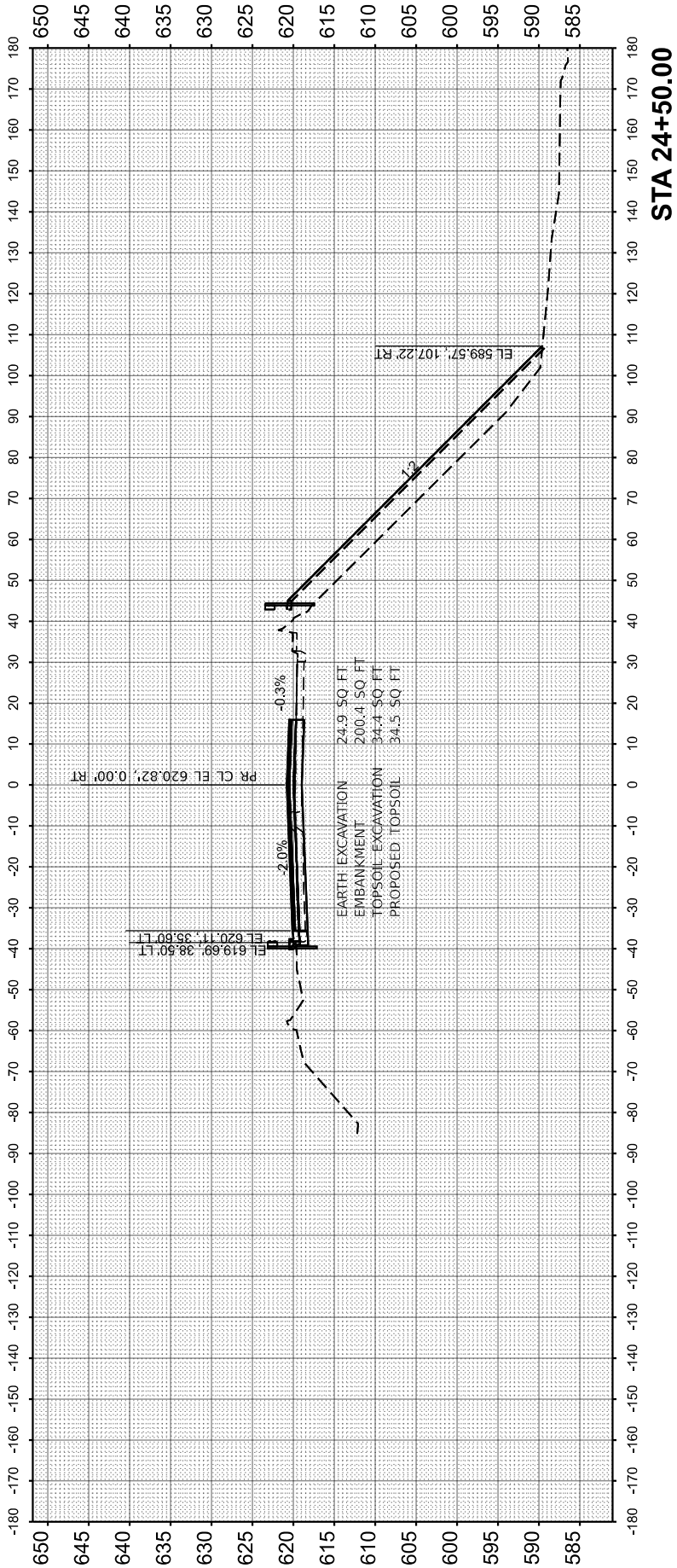
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/23/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GREENWOOD AVENUE

SCALE: 1"=20'
SHEET 2 OF 4 SHEETS
STA. 24+00.00 TO STA. 24+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	74
CONTRACT NO. 61L19				
ILLINOIS FED. AID PROJECT				



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

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

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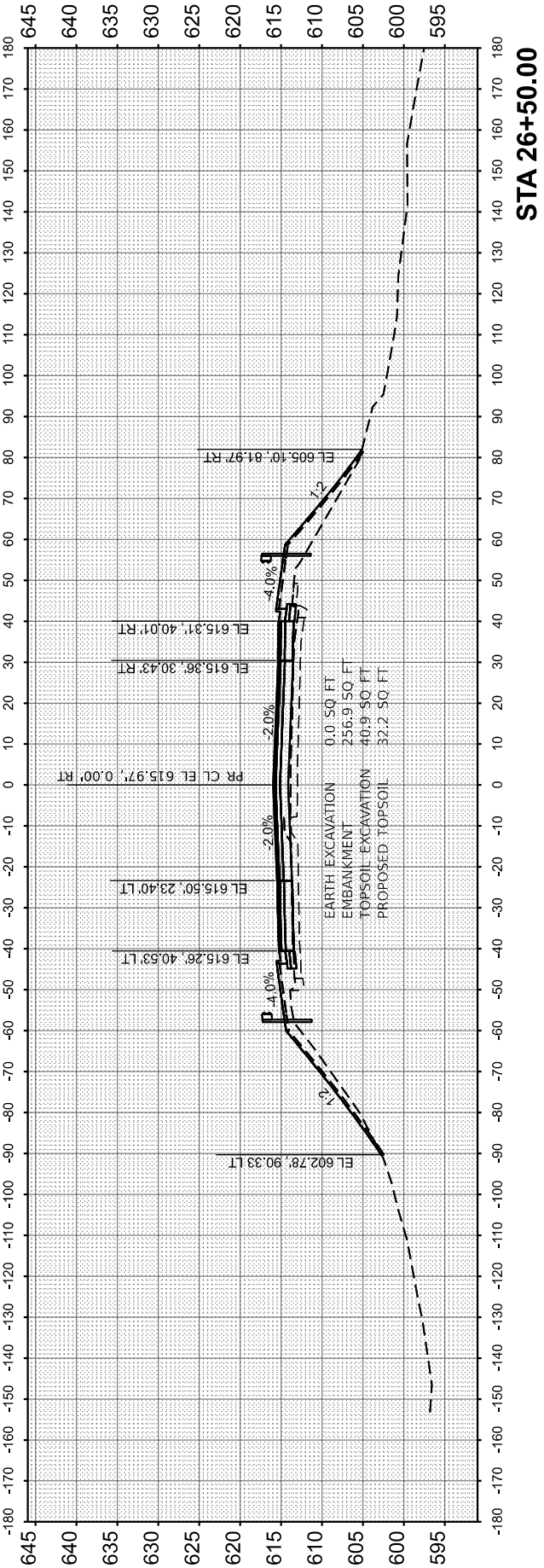
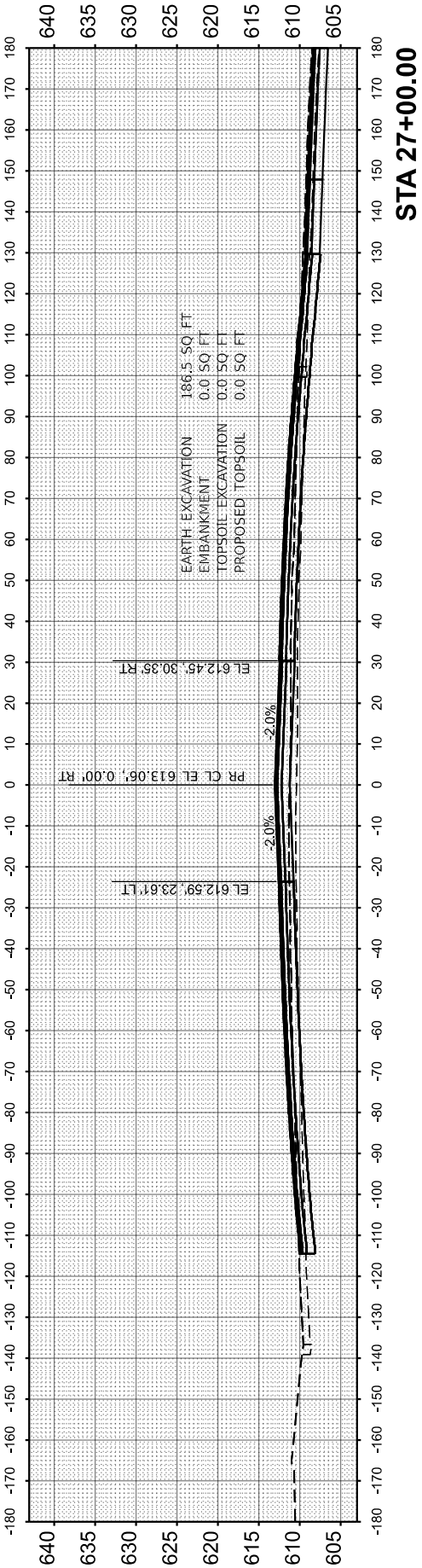
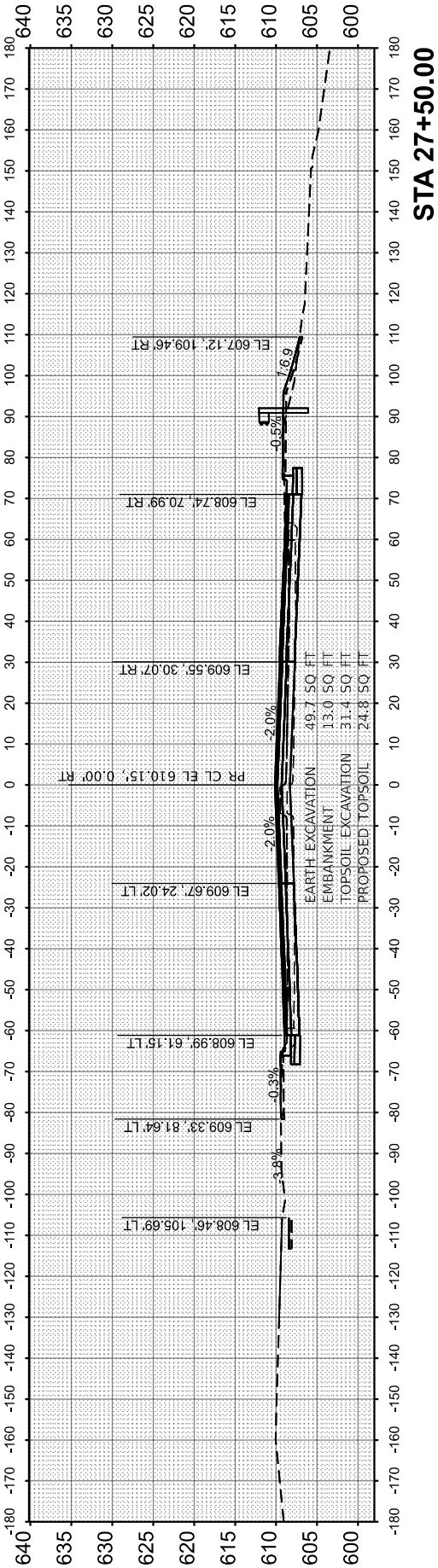
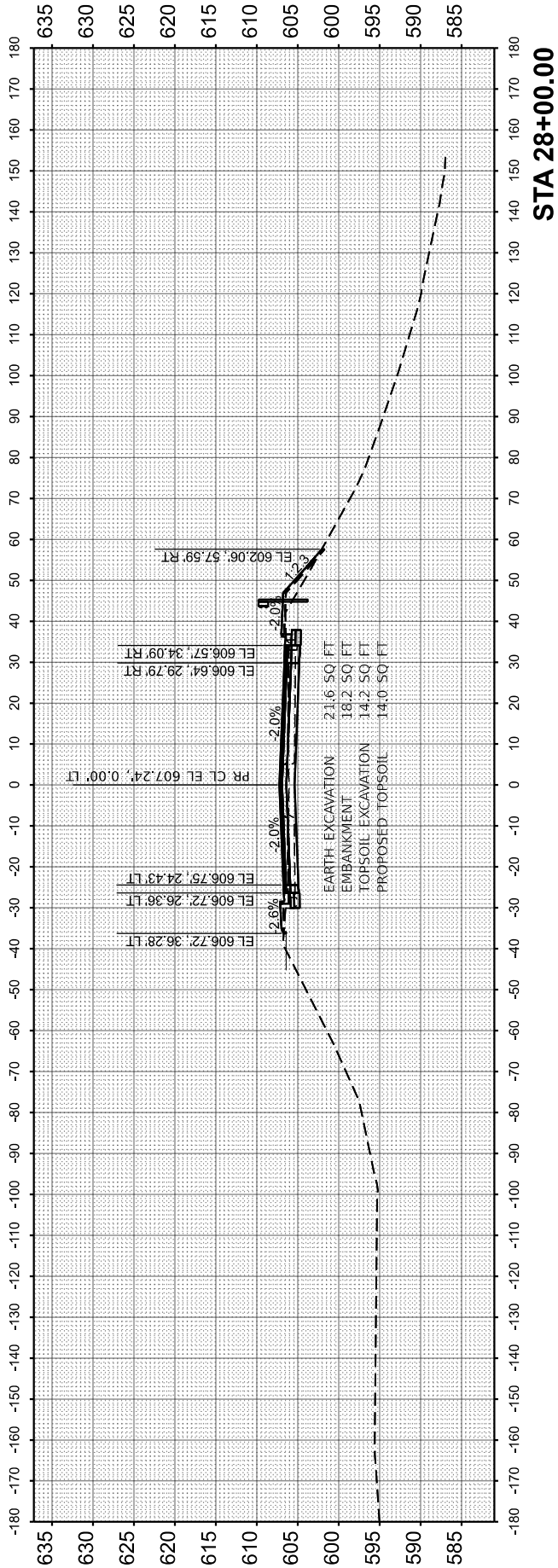
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 7/23/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GREENWOOD AVENUE

SCALE: 1"=20'
SHEET 3 OF 4 SHEETS
STA. 26+50.00 TO STA. 28+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	75
CONTRACT NO. 61L19				
ILLINOIS FED.AID PROJECT				



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

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

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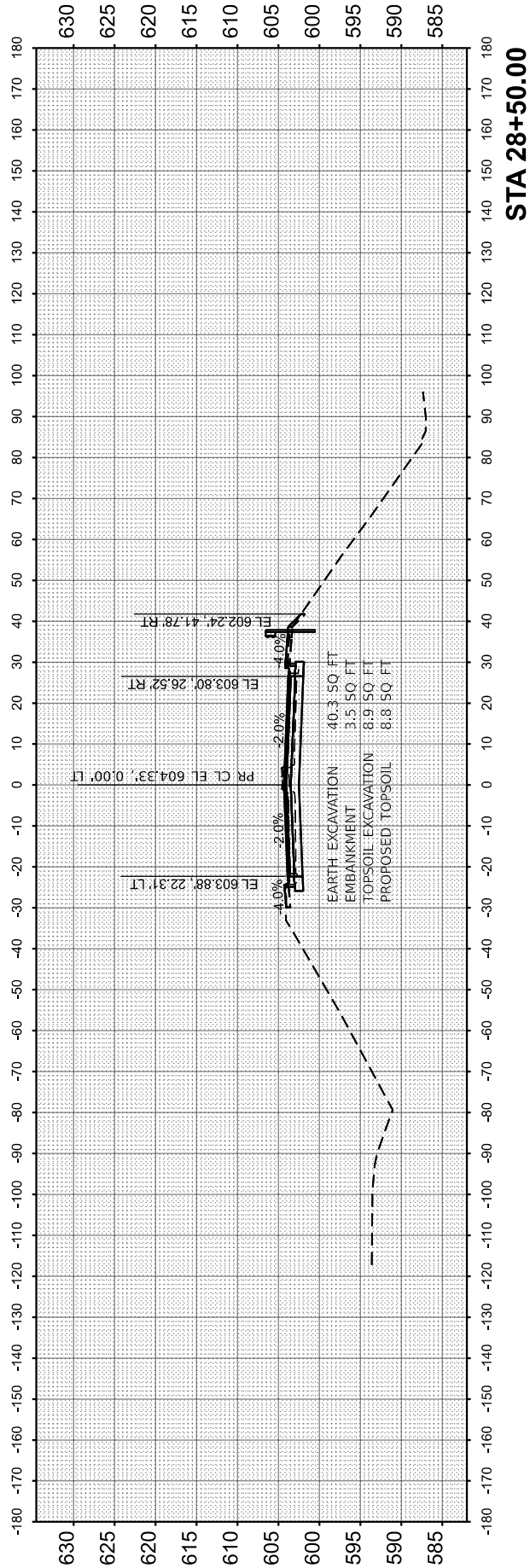
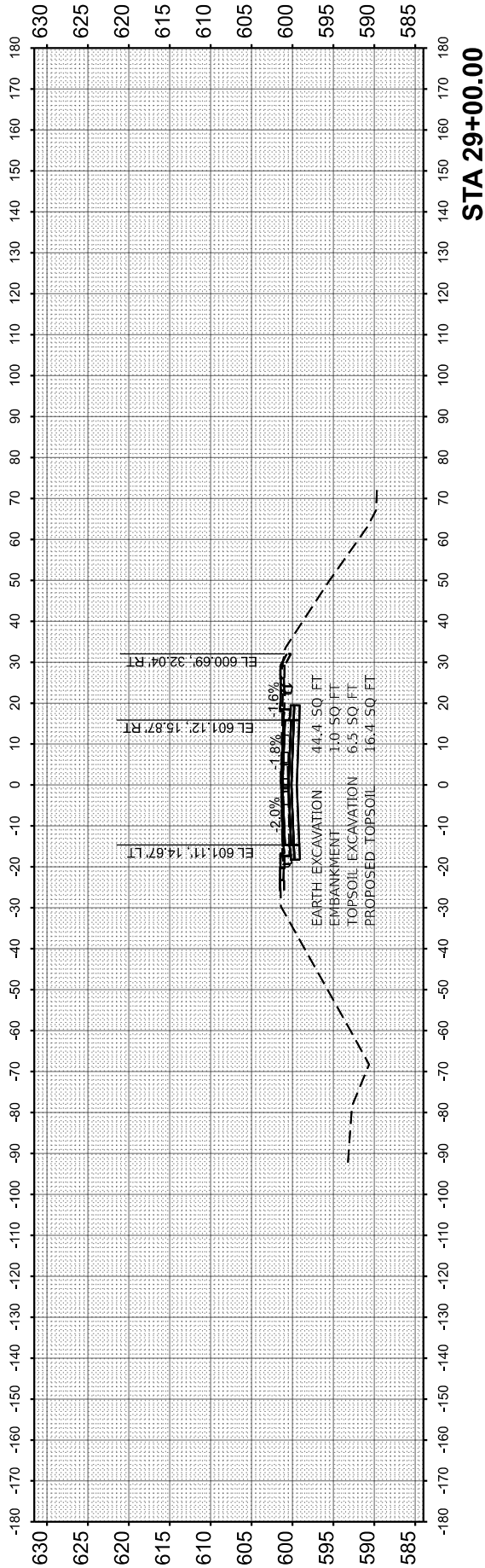
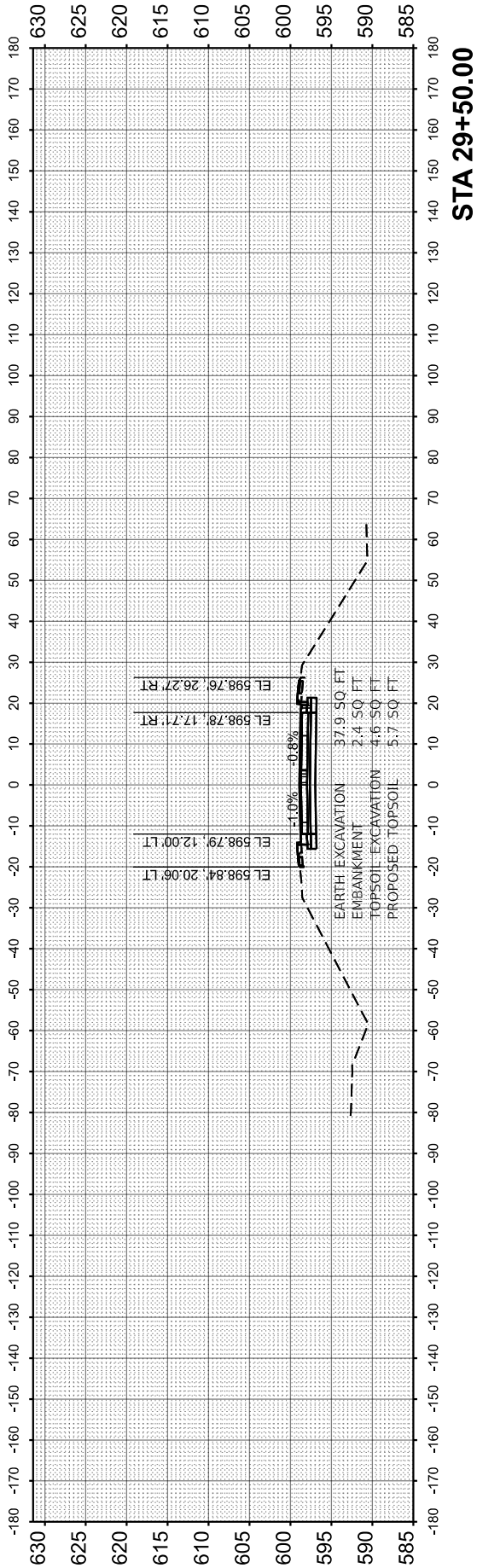
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 4/21/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
GREENWOOD AVENUE

SCALE: 1"=20' SHEET 4 OF 4 SHEETS STA. 28+50.00 TO STA. 29+50.00

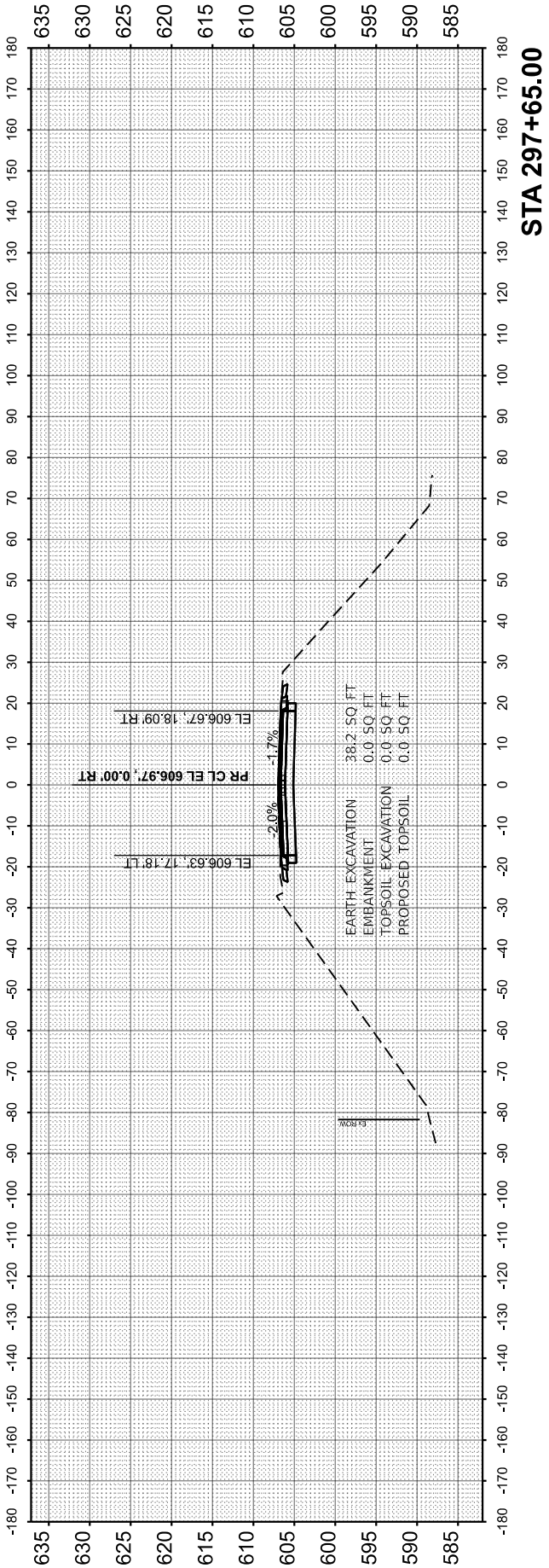
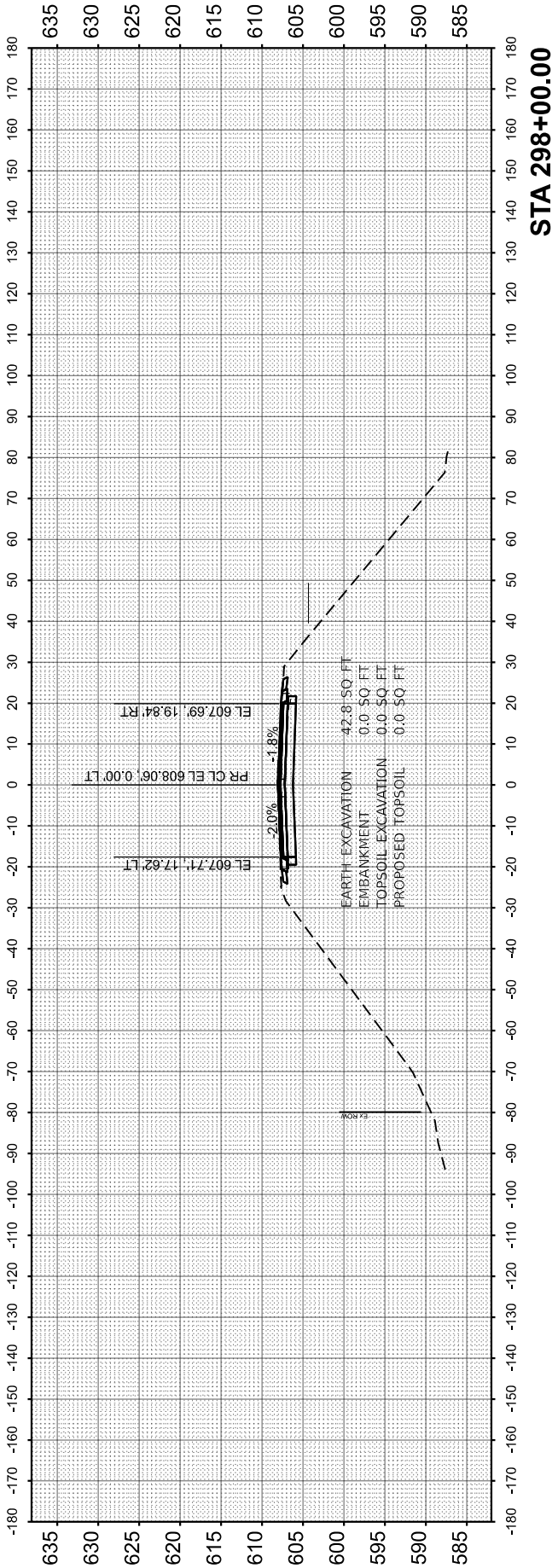
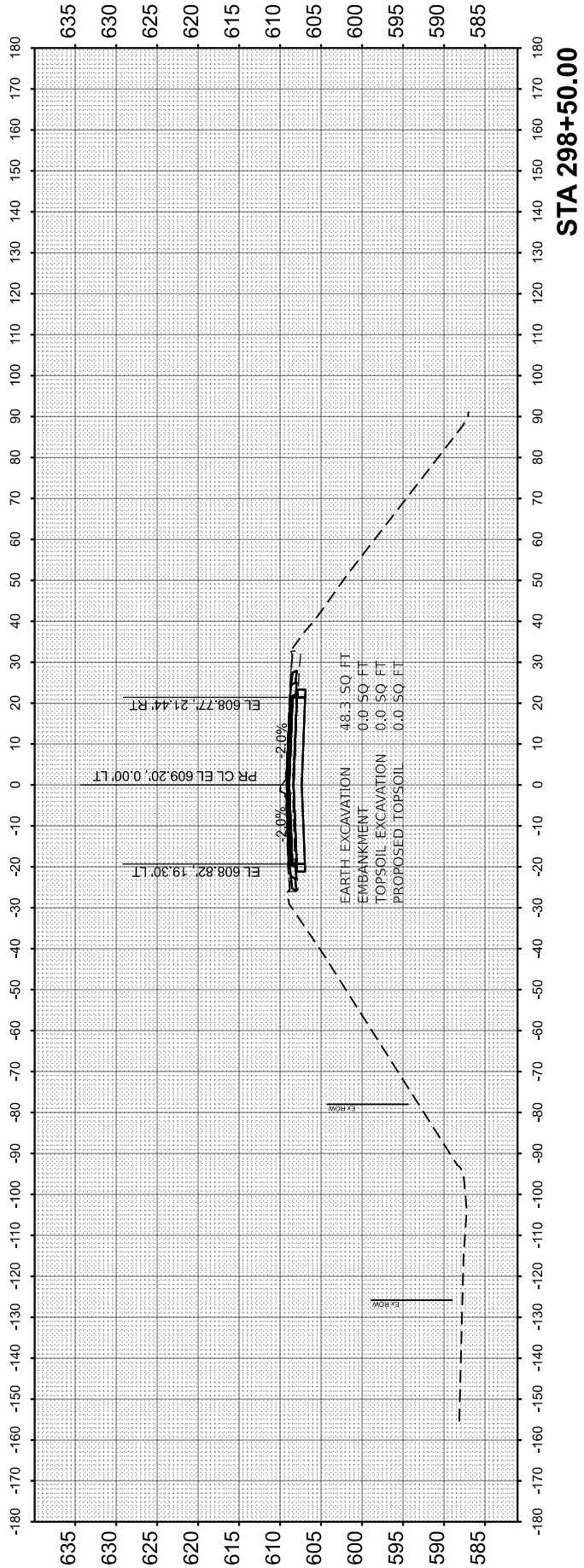
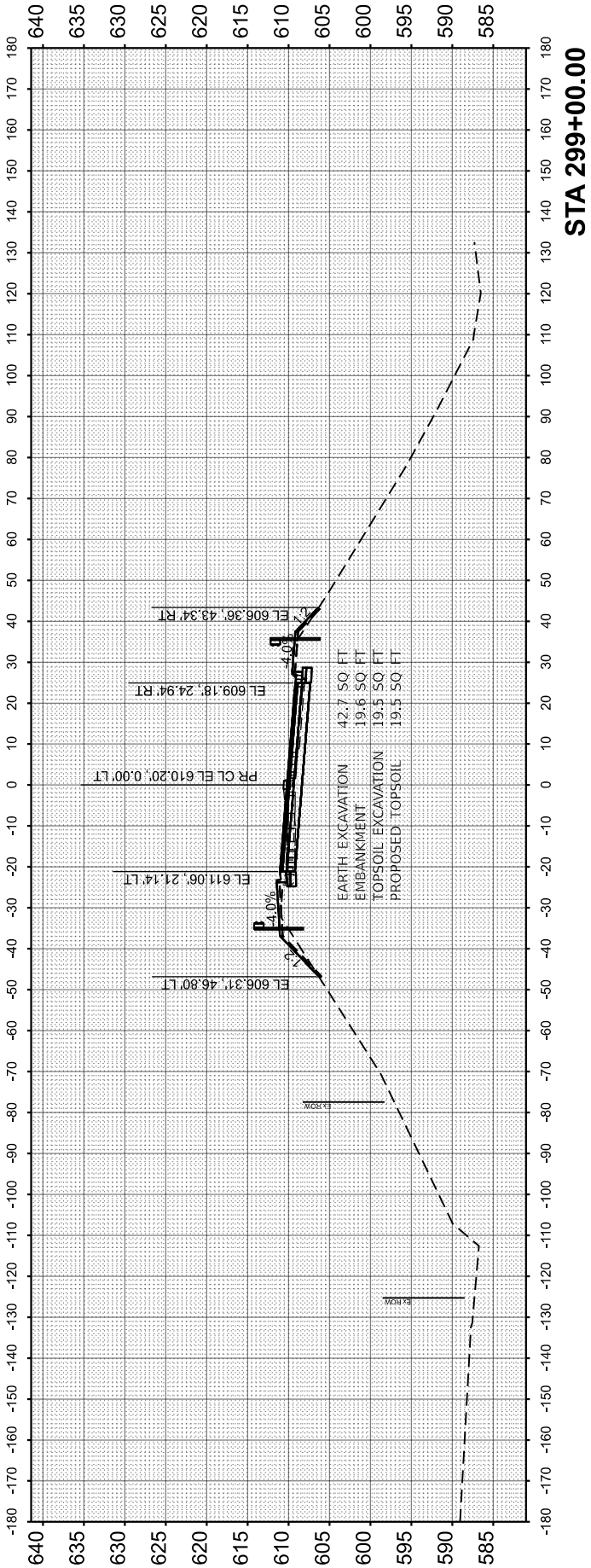
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	76
CONTRACT NO. 61L19				
ILLINOIS FED.AID PROJECT				



MODEL: SHEET_01
FILE NAME: P:\PAWAUKC19141-Greenwood Ave Bridge\CAD\Open Roads\191414_XSec_Pershing.dgn

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

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



PLOT DATE = 5/21/2025	USER NAME = mlakowski	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
	DATE -		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PERSHING ROAD

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 297+65.00 TO STA. 299+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	77
CONTRACT NO. 61L19				
ILLINOIS FED.AID PROJECT				

MODEL: SHEET_02
FILE NAME: P:\PAUKC\191414-Greenwood Ave Bridge\CAD\Open Roads\191414_XSec_Pershing.dgn

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

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

PLOT DATE = 5/21/2025	USER NAME = mlakowski	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
PERSHING ROAD

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 301+00.00 TO STA. 301+14.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3719	20-00243-00-BR	LAKE	78	78
CONTRACT NO. 61L19				
ILLINOIS		FED.AID PROJECT		

