

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	1
		ILLINOIS	CONTRACT NO. 61H33	

11/18/2022 LETTING ITEM 083

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

FAU ROUTE 1255 (PARK AVENUE WEST)
OVER SKOKIE RIVER
SECTION 13-00122-00-BR
PROJECT 05QI(933)
BRIDGE REPLACEMENT, ROADWAY RECONSTRUCTION,
RESURFACING, DRAINAGE AND UTILITY
IMPROVEMENTS, TRAFFIC SIGNAL MODERNIZATION,
CITY OF HIGHLAND PARK
LAKE COUNTY
C-91-375-14

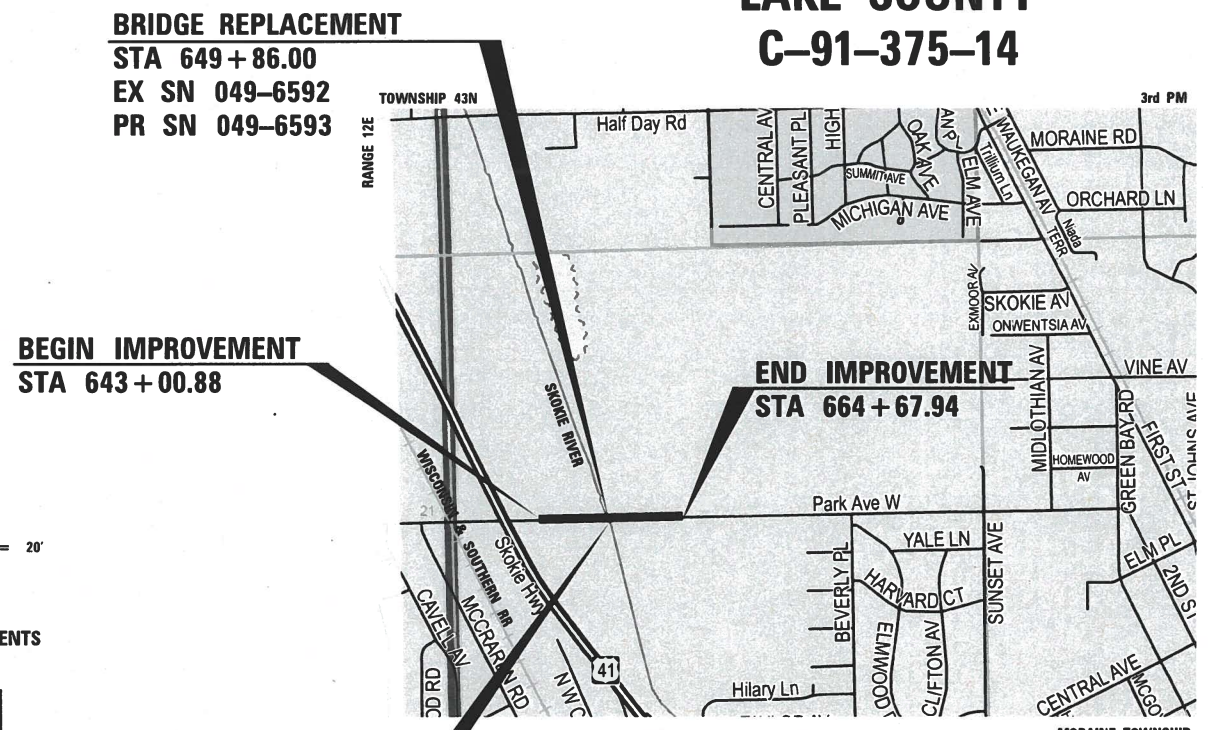
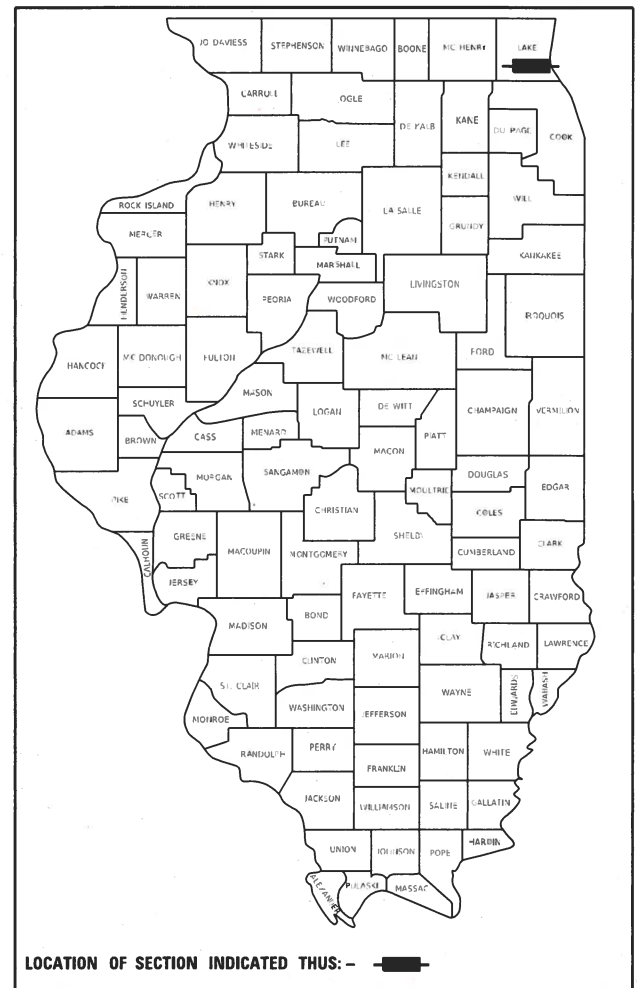
INDEX OF SHEETS
SEE SHEET 2 FOR INDEX OF SHEETS

FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL
ADT (2015) = 12,013
ADT (2040) = 12,900
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH
TRAFFIC FACTOR = 2.25

DESIGN CONSULTANT:



8755 W. Higgins Rd., Suite 325 • Chicago, Illinois 60631
Phone: (312) 332-4334
Illinois Professional Design Firm No. 184-000435
License Expires 4/30/2023



BRIDGE REPLACEMENT
STA 649+86.00
EX SN 049-6592
PR SN 049-6593

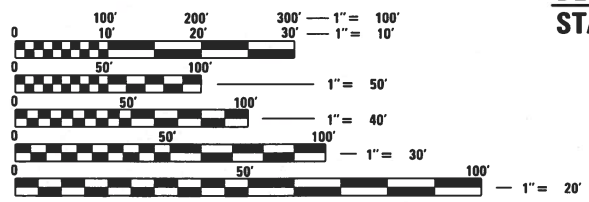
BEGIN IMPROVEMENT
STA 643+00.88

END IMPROVEMENT
STA 664+67.94

BRIDGE OMISSION
SN 049-6592
STA 649+15.58 TO
STA 650+56.42

LOCATION MAP
(NOT TO SCALE)

PROJECT LENGTH:
GROSS LENGTH = 2167.06 FT. = 0.410 MILE
NET LENGTH = 2167.06 FT. = 0.410 MILE



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

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



JORDAN E. PETTIBONE
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
062-066132
Jordan E. Pettibone
08/08/2022 Date
JORDAN E. PETTIBONE License Expires 11/30/2023

SAURABH SHYAM MITTAL
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
081-007521
Saurabh Shyam Mittal
08/08/2022 Date
SAURABH SHYAM MITTAL License Expires 11/30/2023

THE SEAL SHOWN ABOVE IS VALID FOR THE FOLLOWING SHEETS IN THESE PLANS WHICH WERE PREPARED UNDER MY DIRECT SUPERVISION:
SHEETS 79-111

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED August 5, 20 22
Carol Hong
CITY OF HIGHLAND PARK CITY ENGINEER

PASSED Sept. 12 20 22
Ch. Riddle
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW SEPTEMBER 12 20 22
Paul Rios / OAS
REGIONAL ENGINEER

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OF THE STATE OF ILLINOIS**

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

CONTRACT NO. 61H33

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701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
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GENERAL NOTES

- ANY REFERENCE TO THE STANDARD SPECIFICATIONS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS, ADOPTED JANUARY 1, 2022, AND THE JANUARY 1, 2022 SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. THE CONTRACTOR SHALL FOLLOW APPLICABLE POLICIES, PROCEDURES, AND METHODS IN THE CURRENT IDOT GEOTECHNICAL MANUAL (DECEMBER 15, 2015).
- ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- DRAINAGE STRUCTURE ELEVATIONS: GRADES OF SEWER LINES WERE DETERMINED FROM AVAILABLE PLANS AND SURVEYS. ACCORDINGLY, AS DIRECTED BY THE ENGINEER, THE INVERTS OF THE PROPOSED DRAINAGE WILL BE REVISED TO MEET EXISTING FIELD CONDITIONS.
- THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED.
- THE CONTRACTOR SHALL SALVAGE AND DELIVER ALL UNDAMAGED FRAMES AND LIDS/GRATES TO THE CITY PUBLIC WORKS FACILITY. THE ENGINEER WILL COORDINATE A DELIVERY DATE AND TIME.
- THE APPROXIMATE LOCATIONS AND DEPTHS OF KNOWN UTILITIES ARE SHOWN ON THE PLANS. HOWEVER, THE CITY DOES NOT GUARANTEE ITS ACCURACY. PRIOR TO COMMENCING OPERATIONS ON THE PROJECT WHICH MAY IN ANY WAY CREATE THE POSSIBILITY OF INVOLVEMENT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL CONTACT THE UTILITY INVOLVED. ADJUSTMENT OF ALL PUBLIC UTILITIES WITHIN THE LIMITS OF IMPROVEMENT WILL BE DONE BY THE RESPECTIVE OWNERS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- ALL HMA PAVING SHALL FOLLOW DESIGNATED DRIVING LANES. NO LONGITUDINAL PAVING JOINT OR SEAMS ARE ALLOWED WITHIN THE DRIVING LANES. ALL LONGITUDINAL PAVING JOINTS OR SEAMS WILL BE BETWEEN THE DRIVING LANES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS THROUGHOUT THE CONSTRUCTION LIMITS AT ALL TIMES. IF DRIVEWAY ACCESS MUST BE RESTRICTED, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING 72 HOURS IN ADVANCE AS DIRECTED BY THE ENGINEER.
- TRENCH SOIL SHALL BE LOADED DIRECTLY INTO TRUCKS AS IT IS EXCAVATED AND HAULED OFF SITE. PLACING EXCAVATED TRENCH SOIL ON THE PAVEMENT OR PARKWAY IS PROHIBITED.
- ALL LEAD WATER SERVICES ENCOUNTERED SHALL BE REPLACED WITH TYPE K COPPER PIPE FROM THE WATER METER TO THE WATER MAIN.
- HMA AND PCC DRIVEWAYS SHALL BE CONSTRUCTED WITH FLARES ACCORDING TO THE CITY OF HIGHLAND PARK TYPICAL DRIVEWAY AND SIDEWALK DETAIL.
- 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.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

GENERAL NOTES CONT.

- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- WHERE THE PROPOSED BITUMINOUS SURFACE MEETS AN EXISTING SURFACE, THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, WILL CONSTRUCT A BUTT JOINT BY SAWING AND GRINDING THE EXISTING SURFACE.
- 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER WORK TO EXISTING CURBS AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN.
- ALL ROADWAY DIMENSIONS ARE FROM EDGE-TO-EDGE UNLESS OTHERWISE INDICATED. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
- THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC AS-BUILT OR OTHER RECORD PLANS SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

RON BANNON, DIRECTOR OF PUBLIC WORKS
CITY OF HIGHLAND PARK
847-432-0807
- THOSE SEEKING THE FULL GEOTECHNICAL REPORT OR PRELIMINARY SITE INVESTIGATION SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

RON BANNON, DIRECTOR OF PUBLIC WORKS
CITY OF HIGHLAND PARK
847-432-0807
- THOSE SEEKING THE FULL HYDRAULIC REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

RON BANNON, DIRECTOR OF PUBLIC WORKS
CITY OF HIGHLAND PARK
847-432-0807
- THE SUBGRADE ON THIS PROJECT SCHEDULED TO BE IMPROVED TO A 12" DEPTH ACCORDING TO MECHANISTIC PAVEMENT DESIGN. THE SUBGRADE SHALL BE PROCESSED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS BEFORE THE ENGINEER WILL DETERMINE THE LIMITS AND THE ADDITIONAL THICKNESS OF IMPROVEMENT REQUIRED, IF ANY. ANY ADDITIONAL UNDERCUTTING REQUIRED AFTER THIS EVALUATION SHALL BE PAID FOR AS EARTH EXCAVATION.
- 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.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

COMMITMENTS

- TREES ARE NOT TO BE CLEARED DURING CONSTRUCTION OPERATIONS
- THE CONTRACTOR SHALL CONTACT JASON LASSILA, OF HIGHLAND PARK HOSPITAL, 10 DAYS PRIOR TO CONSTRUCTION. JASON LASSILA MAY BE REACHED AT 847-480-3834 OR AT JLASSILA@NORTHSHORE.ORG.
- THE CONTRACTOR SHALL CONTACT RICK WILLMAN OF PACE BUS, 10 DAYS PRIOR TO CONSTRUCTION. RICK WILLMAN MAY BE REACHED AT 847-228-3584 OR AT RICHARD.WILLMAN@PACEBUS.COM.
- PROVIDE PRIOR NOTIFICATION OF THE PRE-CONSTRUCTION MEETING TO SMC (847) 377-7700 INSPECTOR FIVE WORKING DAYS BEFORE START OF CONSTRUCTION TO ENABLE SMC ATTENDANCE. PROVIDE AS-BUILT PLANS OF THE STORMWATER MANAGEMENT SYSTEM TO SMC PRIOR TO FINAL SEEDING.

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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STANDARDS,
COMMITMENTS AND GENERAL NOTES**

SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	2
CONTRACT NO. 61H33				
		ILLINOIS	FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
									ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
				0004	0010	0043	0021	0042	0005					
S		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	22	22								
S		20101200	TREE ROOT PRUNING	EACH	8	8								
		20200100	EARTH EXCAVATION	CU YD	1875		1875							
		20300100	CHANNEL EXCAVATION	CU YD	56		56							
		20800150	TRENCH BACKFILL	CU YD	204			204						
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	798		798							
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	230	20	210							
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	696	57	639							
		25100127	MULCH, METHOD 3A	ACRE	0.25		0.25							
		25200110	SODDING, SALT TOLERANT	SQ YD	696	57	639							
		25200200	SUPPLEMENTAL WATERING	UNIT	10	1	9							
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	15	1	14							
		28000400	PERIMETER EROSION BARRIER	FOOT	917	917								
		28000510	INLET FILTERS	EACH	28	28								

S = SPECIALTY ITEM
 * = SPECIAL PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED

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DRAWN - JEP	CHECKED - MFB	REVISED -
PLLOT SCALE = 2.0000' / in.	DATE - 2021/07/30	REVISED -
PLLOT DATE = 9/21/2022		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUMMARY OF QUANTITIES

SCALE: NTS SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 3
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES				CONSTRUCTION CODE					
		CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
						STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
						ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
						0004	0010	0043	0021	0042	0005
		28100109	STONE RIPRAP, CLASS A5	SQ YD	336		336				
		28200200	FILTER FABRIC	SQ YD	336		336				
	*	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	312		312				
	*	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3738		3738				
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8608	8608					
		40600370	LONGITUDINAL JOINT SEALANT	FOOT	15546	15546					
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0.3	0.3					
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	89	89					
		40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	157	157					
		40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	625	625					
		40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1520		1520				
		40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	893	625	268				
		42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	117		117				
		42001300	PROTECTIVE COAT	SQ YD	763		573		190		

S = SPECIALTY ITEM
 * = SPECIAL PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED

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	USER NAME - PWICS1	DESIGNED - JEP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE - 2.0000' / in.	DRAWN - JEP	REVISED -					1255	13-00122-00-BR	LAKE	145	4
	PLOT DATE - 9/21/2022	CHECKED - MFB	REVISED -					CONTRACT NO. 61H33				
	DATE - 2021/07/30	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 2 OF 14 SHEETS STA. TO STA.

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
									ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
				0004	0010	0043	0021	0042	0005					
		42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	71		71							
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2115		619		1496					
		44000100	PAVEMENT REMOVAL	SQ YD	3318		3318							
		44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	3997	3997								
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	71.0		71.0							
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1105		1105							
		44000600	SIDEWALK REMOVAL	SQ FT	1721	1016	705							
		44001980	CONCRETE BARRIER REMOVAL	FOOT	99		99							
		44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	298	298								
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1							
		50157300	PROTECTIVE SHIELD	SQ YD	1051		1051							
		50200100	STRUCTURE EXCAVATION	CU YD	68		68							
		50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1							
		50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1							

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 * = SPECIAL PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUMMARY OF QUANTITIES

SCALE: NTS SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES				CONSTRUCTION CODE					
		CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
						STU ROADWAY	STP-BR SN049-6593	STP-BR UTILITIES	STU SAFETY	STP-BR TRAINEES	ROADWAY
						0004	0010	0043	0021	0042	0005
		50201123	COFFERDAM (TYPE 2) (LOCATION - 3)	EACH	1		1				
		50201124	COFFERDAM (TYPE 2) (LOCATION - 4)	EACH	1		1				
		50300225	CONCRETE STRUCTURES	CU YD	311.9		311.9				
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	211.3		211.3				
		50300260	BRIDGE DECK GROOVING	SQ YD	845		845				
		50300280	CONCRETE ENCASEMENT	CU YD	15			15			
		50300285	FORM LINER TEXTURED SURFACE	SQ FT	1391		1391				
		50300300	PROTECTIVE COAT	SQ YD	1171		1171				
		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	183.8		183.8				
		50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1				
		50500505	STUD SHEAR CONNECTORS	EACH	1872		1872				
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	154540		154540				
		50800515	BAR SPLICERS	EACH	678		678				
		51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	3098		3098				

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PLLOT DATE = 9/21/2022		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 6
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
									ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
		51202305	DRIVING PILES	FOOT	3098		3098							
		51203200	TEST PILE METAL SHELLS	EACH	2		2							
		51204650	PILE SHOES	EACH	94		94							
		51500100	NAME PLATES	EACH	1		1							
		52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	8		8							
		52100510	ANCHOR BOLTS, 3/4"	EACH	32		32							
		52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2645		2645							
		54248510	CONCRETE COLLAR	CU YD	1			1						
S	*	56109210	WATER VALVES TO BE ADJUSTED	EACH	6			6						
S	*	56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	1			1						
		58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	250		250							
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	204		204							
		60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	23		23							
		60108206	PIPE UNDERDRAINS, TYPE 2, 6"	FOOT	1431		1431							

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 7
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS				
					CODE NO	ITEM	UNIT	TOTAL	STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
									ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
				0005	0010	0043	0021	0042	0005					
		60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	222		222							
		60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2			2						
		60255500	MANHOLES TO BE ADJUSTED	EACH	6	3	3							
		60260100	INLETS TO BE ADJUSTED	EACH	4		4							
		60600605	CONCRETE CURB, TYPE B	FOOT	61.5		61.5							
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1260.0		1260.0							
	*	60605500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (VARIABLE WIDTH GUTTER FLAG)	FOOT	20.0		20.0							
S		63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	38		38							
S		63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2		2							
S		63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2		2							
S		63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4		4							
S		66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	395		395							
S		66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2								
S		66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1			1						

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUMMARY OF QUANTITIES

SCALE: NTS SHEET 6 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 8
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU ROADWAY	STP-BR SN049-6593	STP-BR UTILITIES	STU SAFETY	STP-BR TRAINEES	ROADWAY
									0004	0010	0043	0021	0042	0005
S		66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		1							
S		66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10		10							
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16		16							
		67100100	MOBILIZATION	L SUM	1		1							
		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16		16							
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	1684	1095	589							
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	9968	6479	3489							
		70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	392	255	137							
		70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	19162	12455	6707							
		70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	1333	866	467							
		70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	201	131	70							
		70307160	TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE	FOOT	925	601	324							
		70307210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE	FOOT	238	155	83							
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	775		775							

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PLOT DATE - 9/21/2022		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUMMARY OF QUANTITIES

SCALE: NYS SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 9
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU ROADWAY 0004	STP-BR SN049-6593 0010	STP-BR UTILITIES 0043	STU SAFETY 0021	STP-BR TRAINEES 0042	ROADWAY 0005
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	987.5		987.5							
		70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	4		4							
		70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	4		4							
S		72000100	SIGN PANEL - TYPE 1	SQ FT	34.0				34.0					
		72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	4		4							
S		72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4				4					
S		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	403				403					
S		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6880				6880					
S		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	801				801					
S		78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	203				203					
S		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	936				936					
S		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	100				100					
S		78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	16		16							
S		78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	670		670							

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKE RIVER
 SUMMARY OF QUANTITIES

SCALE: NTS SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
									ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
S		78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	37		37							
S		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	226		79		147					
S		78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16				16					
S		78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	8				8					
		78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2664		2664							
S		80500100	SERVICE INSTALLATION, TYPE A	EACH	1				1					
S		81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	67				67					
S		81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	11				11					
S		81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	2				2					
S		81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	141				141					
S		81400100	HANDHOLE	EACH	2				2					
S		85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1				1					
S		87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8				8					
S		87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	794				794					

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUMMARY OF QUANTITIES

SCALE: NTS SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
									ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
						0005	0010	0043	0021	0042	0005			
S		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	790				790					
S		87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1968				1968					
S		87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6954				6954					
S		87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1676				1676					
S		87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	740				740					
S		87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	2				2					
S		87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1				1					
S		87700265	STEEL MAST ARM ASSEMBLY AND POLE, 45 FT.	EACH	3				3					
S		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8				8					
S		87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50				50					
S		88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8				8					
S		88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8				8					
S		88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2				2					
S		88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2				2					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUMMARY OF QUANTITIES

SCALE: NTS SHEET 10 OF 14 SHEETS STA. TO STA.

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 12
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU	STP-BR	STP-BR	STU	STP-BR	ROADWAY
									ROADWAY	SN049-6593	UTILITIES	SAFETY	TRAINEES	
S		88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1				1					
S		88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4				4					
S		88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10				10					
S		88700200	LIGHT DETECTOR	EACH	2				2					
S		88700300	LIGHT DETECTOR AMPLIFIER	EACH	2				2					
S		89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1				1					
S	*	89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1				1					
S		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	11354				11354					
S	*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1				1					
S	*	89502376	REBUILD EXISTING HANDHOLE	EACH	1				1					
S		89502380	REMOVE EXISTING HANDHOLE	EACH	4				4					
S		89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6				6					
S	*	X0320021	MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1				1					
S	*	X0320374	PLUG EXISTING SANITARY SEWERS	EACH	2			2						

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUMMARY OF QUANTITIES**

SCALE: NTS SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	13
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES				CONSTRUCTION CODE					
		CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
						STU ROADWAY	STP-BR SN049-6593	STP-BR UTILITIES	STU SAFETY	STP-BR TRAINEES	ROADWAY
						0005	0010	0043	0021	0042	0005
S	*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1148				1148		
S	*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	540				540		
S	*	X0325712	RELOCATE EXISTING ELECTRICAL SYSTEM	L SUM	1				1		
S	*	X0326485	DECORATIVE RAILING (DECK MOUNTED)	FOOT	141		141				
S	*	X0326486	DECORATIVE RAILING (PARAPET MOUNTED)	FOOT	141		141				
S	*	X0327032	TEMPORARY VIDEO DETECTION	EACH	1				1		
	*	X0327036	BIKE PATH REMOVAL	SQ YD	115				115		
S	*	X1200317	SANITARY SEWER REMOVAL	FOOT	115			115			
S	*	X1400012	REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT	FOOT	1202				1202		
S	*	X1400399	VIDEO DETECTION SYSTEM COMPLETE	EACH	1				1		
S	*	X1400451	LAYER II (DATALINK) SWITCH	EACH	1				1		
	*	X2011000	TEMPORARY FENCE (SPECIAL)	FOOT	699		699				
	*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100				100		
	*	X2800400	PERIMETER EROSION BARRIER, SPECIAL	FOOT	163	163					

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUMMARY OF QUANTITIES

SCALE: NTS SHEET 12 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	14
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES				CONSTRUCTION CODE					
		CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
						STU ROADWAY	STP-BR	STP-BR	STU	STP-BR	ROADWAY
						0005	SN049-6593 0010	UTILITIES 0043	SAFETY 0021	TRAINEES 0042	0005
	*	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1					
	*	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	164				164		
	*	X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1182	1182					
	*	X5030290	STAINING CONCRETE STRUCTURES	SQ FT	1560		1560				
	*	X5041800	CONCRETE ANCHORS	EACH	1			1			
S	*	X5610708	WATER MAIN REMOVAL, 8"	FOOT	105			105			
S	*	X5610718	WATER MAIN REMOVAL, 18"	FOOT	40			40			
S	*	X5610758	WATER MAIN LINE STOP 18"	EACH	1			1			
	*	X6022110	MANHOLES, TYPE A, 10'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2					
	*	X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2			2			
S	*	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	3	3					
S	*	X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	1			1			
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
S	*	X8510200	PAINT TRAFFIC SIGNAL EQUIPMENT	L SUM	1				1		

S = SPECIALTY ITEM
 * = SPECIAL PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED


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	USER NAME - PWICSS	DESIGNED - JEP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER SUMMARY OF QUANTITIES	F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 15			
	PLOT SCALE = 2.0000' / in.	CHECKED - MFB	REVISED -			SCALE: NTS	SHEET 13 OF 14 SHEETS	STA. TO STA.	CONTRACT NO. 61H33				
	PLOT DATE = 10/5/2022	DATE - 2021/01/30	REVISED -			ILLINOIS FED. AID PROJECT							

SPECIALTY ITEM	SPECIAL PROVISION*	SUMMARY OF QUANTITIES			CONSTRUCTION CODE									
					CODE NO	ITEM	UNIT	TOTAL	80% FEDERAL FUNDS - 20% LOCAL MATCH					100% LOCAL FUNDS
									STU	STP-BR	STP-BR	STU	STP-BR	
									ROADWAY 0005	SN049-6593 0010	UTILITIES 0043	SAFETY 0021	TRAINEES 0042	ROADWAY 0005
S	*	X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1				1					
S	*	X8760055	PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	1				1					
S	*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4				4					
S	*	XX006433	BACKFLOW PREVENTOR	EACH	2	2								
	*	XX009279	PRE-CONSTRUCTION VIDEO TAPING	L SUM	1						1			
S	*	XX009476	WATER MAIN, RESTRAINED JOINT DIP, 18"	FOOT	68			68						
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1								
	*	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10						10			
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	101.4			101.4						
S	*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1				1					
	*	Z0050400	REMOVE AND REPLACE ANCHOR BOLTS	EACH	2				2					
S	*	Z0057500	SANITARY SEWER 24"	FOOT	130			130						
S	*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2				2					
	*	Z0076600	TRAINEES	hour	1000					1000				
		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	1000					1000				

S = SPECIALTY ITEM
 * = SPECIAL PROVISION, PLAN NOTE, OR DETAIL HAS BEEN PROVIDED

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	USER NAME = PWICSS	DESIGNED - JEP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 2.0000" = 1 in.	CHECKED - MFB	REVISED -			1255	13-00122-00-BR	LAKE	145	16	
	PLOT DATE = 10/15/2022	DATE - 2021/07/30	REVISED -		SCALE: NTS	SHEET 14 OF 14 SHEETS		STA.	TO STA.		
						ILLINOIS		FED. AID PROJECT			CONTRACT NO. 61H33

NOTES:

1. THE PARKWAY GRADING SHALL MAINTAIN A MINIMUM SLOPE OF 2% TOWARDS THE PAVEMENT OR AS SHOWN ON THE CROSS SECTIONS.
2. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TESTED WITH A CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. ANY MATERIAL NOT NEEDED FOR UNDERCUT REPLACEMENT AT THE TIME OF CONSTRUCTION SHALL BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.
3. THE ACTUAL NEED OF GEOTECHNICAL FABRIC FOR GROUND STABILIZATION FABRIC TO ACT AS A SEPARATION BARRIER BETWEEN THE AGGREGATE SUBGRADE IMPROVEMENT AND THE UNCONTROLLED FILL WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ANY MATERIAL NOT NEEDED FOR UNDERCUT REPLACEMENT AT THE TIME OF CONSTRUCTION SHALL BE DELETED FROM THE CONTRACT WITH NO EXTRA COMPENSATION TO THE CONTRACTOR.
4. FOR RESURFACING SEGMENT, THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER HMA BC IL-9.5 N70. FOR RECONSTRUCTION SEGMENT, THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED BEFORE AND AFTER THE TOP LOFT OF HMA BC IL-19.0 N70.

MIXTURE TYPE	PERCENT AIR	QMP
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 1-1/2"	4% @ 70 GYR.	AS PER LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 1-1/2"	4% @ 70 GYR.	AS PER LR 1030-3
PAVEMENT RECONSTRUCTION		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 1-1/2"	4% @ 70 GYR.	AS PER LR 1030-3
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 8-1/2"	4% @ 70 GYR.	AS PER LR 1030-3
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19.0)	4% @ 70 GYR.	AS PER LR 1030-3
PAVEMENT CONNECTOR (HMA)		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 1-1/2"	4% @ 70 GYR.	AS PER LR 1030-3
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 8-1/2" to 13-1/2"	4% @ 70 GYR.	AS PER LR 1030-3
QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

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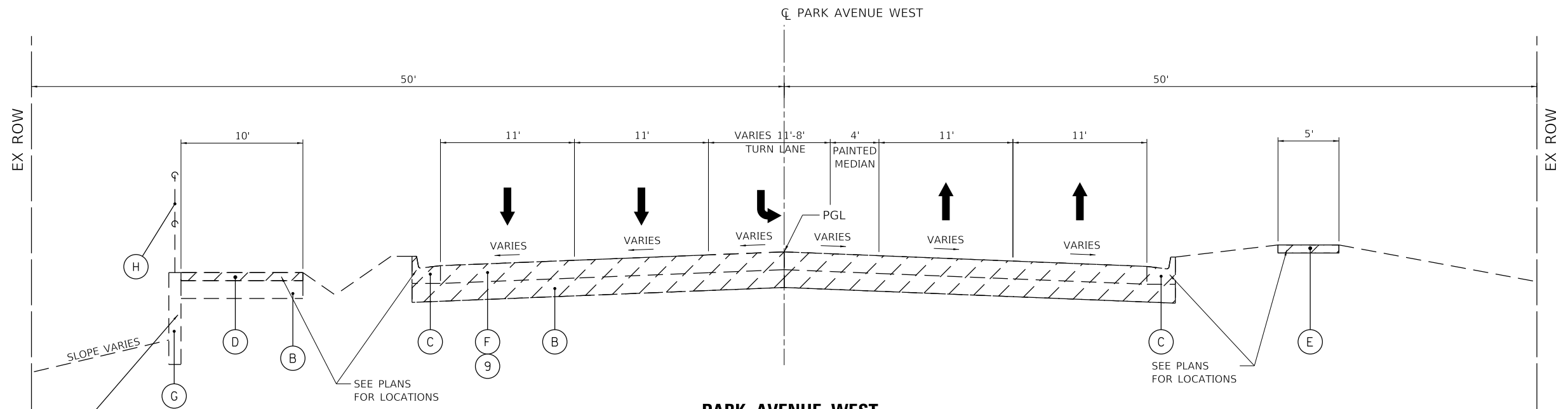
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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
TYPICAL SECTIONS NOTES**

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

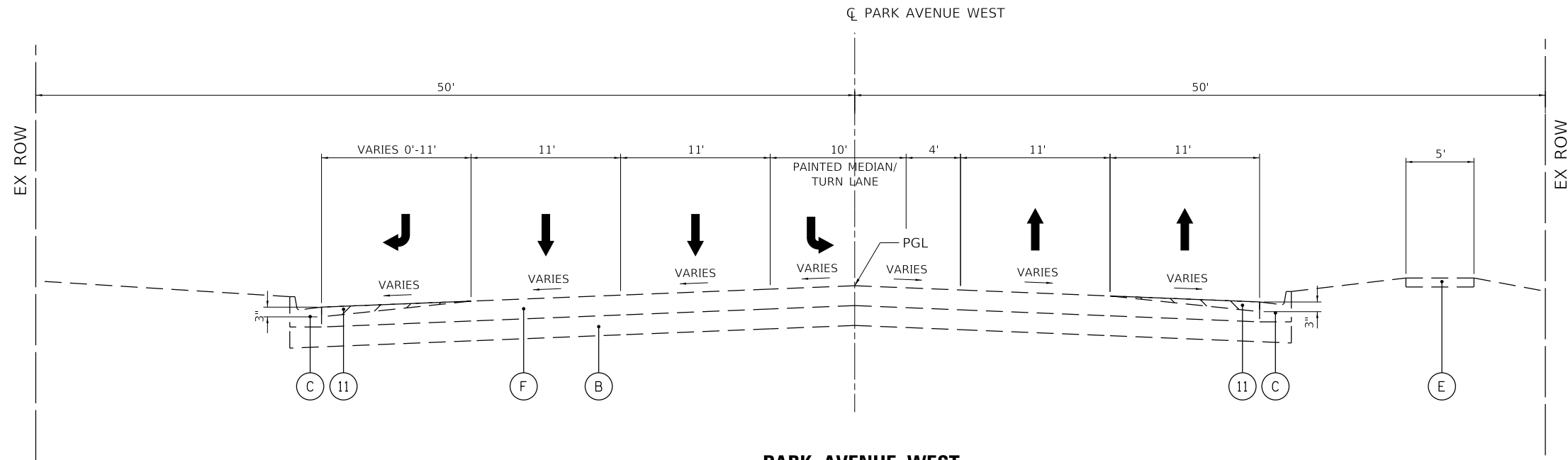
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	03-00122-00-BR	LAKE	145	17
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



PARK AVENUE WEST

STA 647+48.00 TO STA 649+15.58
BRIDGE OMMISION STA 649+15.58 TO STA 650+56.42

EXISTING RETAINING WALL/FOUNDATION AND BIKE RAILING SHALL NOT BE DISTURBED DURING BIKE PATH REMOVAL



PARK AVENUE WEST

STA 643+00.88 TO STA 647+48.00

REMOVALS

LEGEND

- | | | | | |
|--|--|---|---|---|
| (A) EXISTING HMA PAVEMENT | (F) EXISTING PORTLAND CEMENT CONCRETE, 8" PAVEMENT | (1) 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | (6) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | (11) PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH (SEE MISCELLANEOUS DETAILS SHEET) |
| (B) EXISTING AGGREGATE SUB-BASE, 6" | (G) EXISTING RETAINING WALL/FOUNDATION | (2) 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 | (7) SODDING, SALT TOLERANT TOPSOIL EXCAVATION AND PLACEMENT | |
| (C) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24 | (H) EXISTING BIKE RAILING | (3) 8 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | (8) HOT-MIX ASPHALT REMOVAL, 3" | |
| (D) EXISTING HMA SHARED-USE PATH 3.75 INCH | | (4) AGGREGATE SUBGRADE IMPROVEMENT 12" | (9) PAVEMENT REMOVAL | |
| (E) EXISTING PCC SIDEWALK 5 INCH | | (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | (10) GUARDRAIL INSTALLATION | |

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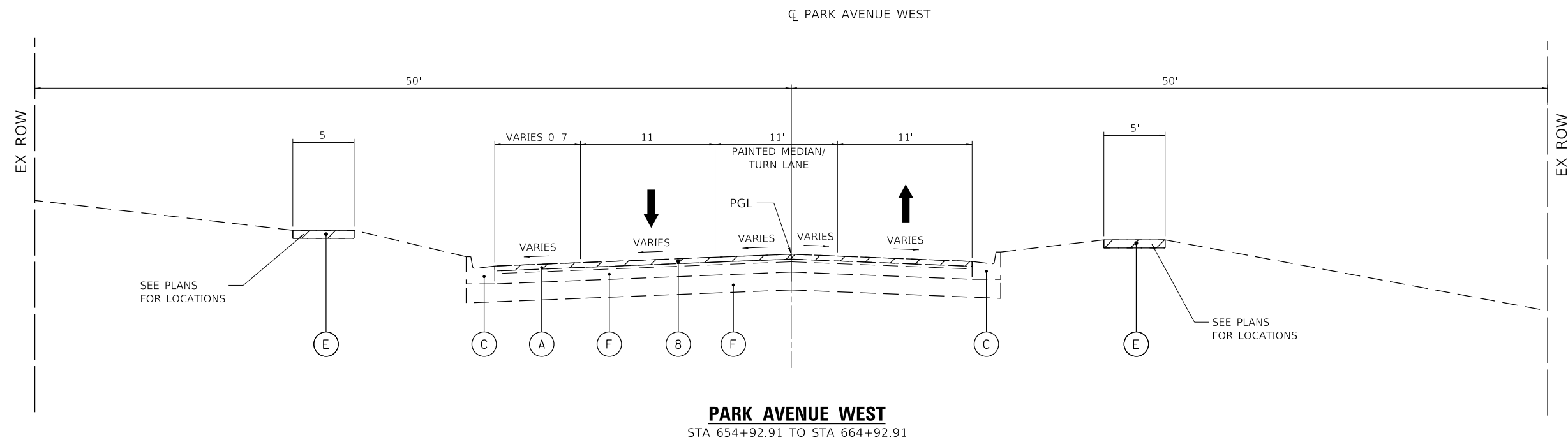
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

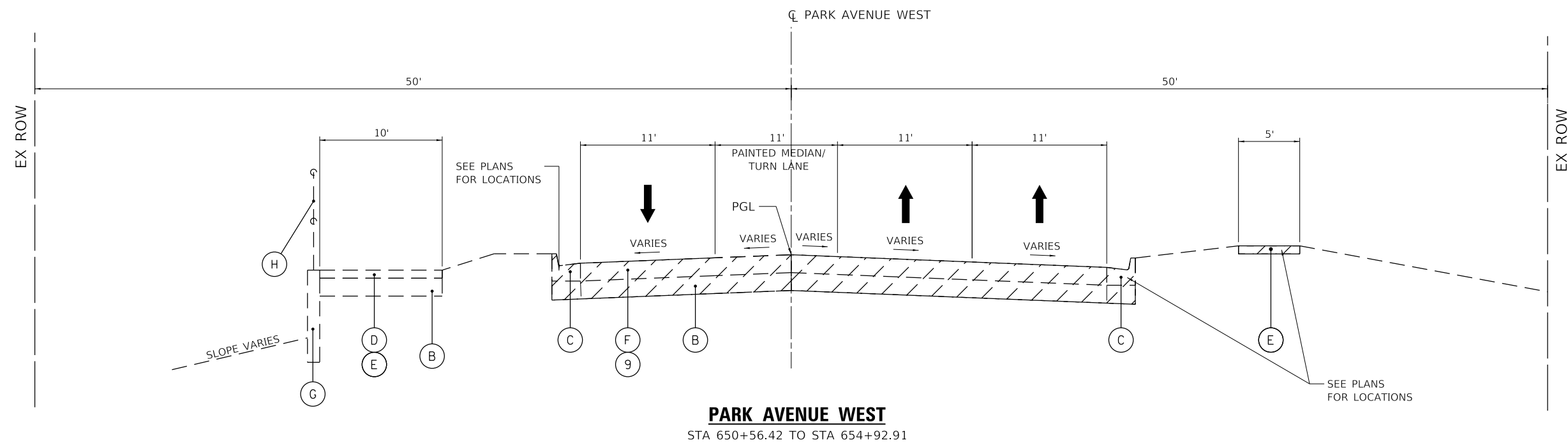
**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
EXISTING TYPICAL SECTIONS**

SCALE: NTS SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	03-00122-00-BR	LAKE	145	18
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



PARK AVENUE WEST
STA 654+92.91 TO STA 664+92.91



PARK AVENUE WEST
STA 650+56.42 TO STA 654+92.91

REMOVALS

LEGEND

- | | | | | |
|--|--|---|---|---|
| (A) EXISTING HMA PAVEMENT | (F) EXISTING PORTLAND CEMENT CONCRETE, 8" PAVEMENT | (1) 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | (6) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | (11) PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH (SEE MISCELLANEOUS DETAILS SHEET) |
| (B) EXISTING AGGREGATE SUB-BASE, 6" | (G) EXISTING RETAINING WALL/FOUNDATION | (2) 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 | (7) SODDING, SALT TOLERANT TOPSOIL EXCAVATION AND PLACEMENT | |
| (C) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24 | (H) EXISTING BIKE RAILING | (3) 8 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | (8) HOT-MIX ASPHALT REMOVAL, 3" | |
| (D) EXISTING HMA SHARED-USE PATH 3.75 INCH | | (4) AGGREGATE SUBGRADE IMPROVEMENT 12" | (9) PAVEMENT REMOVAL | |
| (E) EXISTING PCC SIDEWALK 5 INCH | | (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | (10) GUARDRAIL INSTALLATION | |

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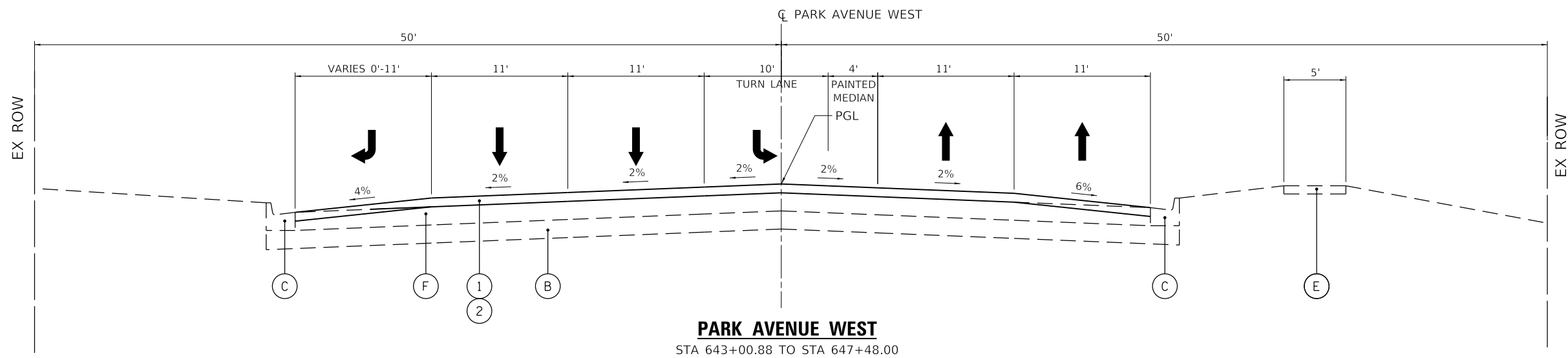
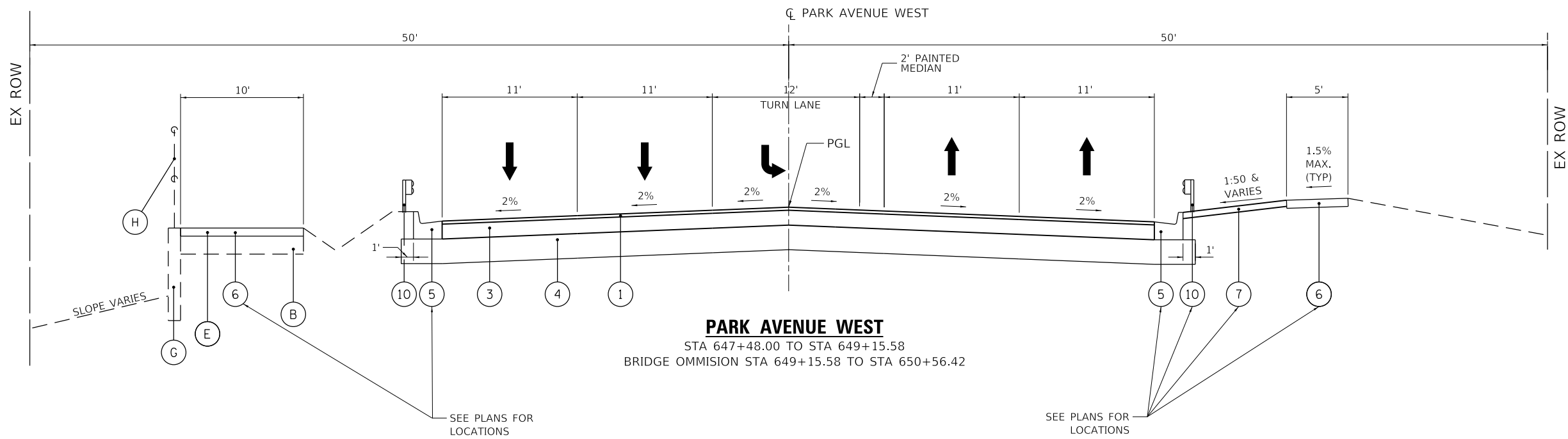
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
EXISTING TYPICAL SECTIONS**

SCALE: NTS SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	03-00122-00-BR	LAKE	145	19
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



LEGEND

- | | | | | |
|--|--|---|---|---|
| (A) EXISTING HMA PAVEMENT | (F) EXISTING PORTLAND CEMENT CONCRETE, 8" PAVEMENT | (1) 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | (6) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | (11) PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH (SEE MISCELLANEOUS DETAILS SHEET) |
| (B) EXISTING AGGREGATE SUB-BASE, 6" | (G) EXISTING RETAINING WALL/FOUNDATION | (2) 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 | (7) SODDING, SALT TOLERANT TOPSOIL EXCAVATION AND PLACEMENT | |
| (C) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24 | (H) EXISTING BIKE RAILING | (3) 8 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | (8) HOT-MIX ASPHALT REMOVAL, 3" | |
| (D) EXISTING HMA SHARED-USE PATH 3.75 INCH | | (4) AGGREGATE SUBGRADE IMPROVEMENT 12" | (9) PAVEMENT REMOVAL | |
| (E) EXISTING PCC SIDEWALK 5 INCH | | (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | (10) GUARDRAIL INSTALLATION | |

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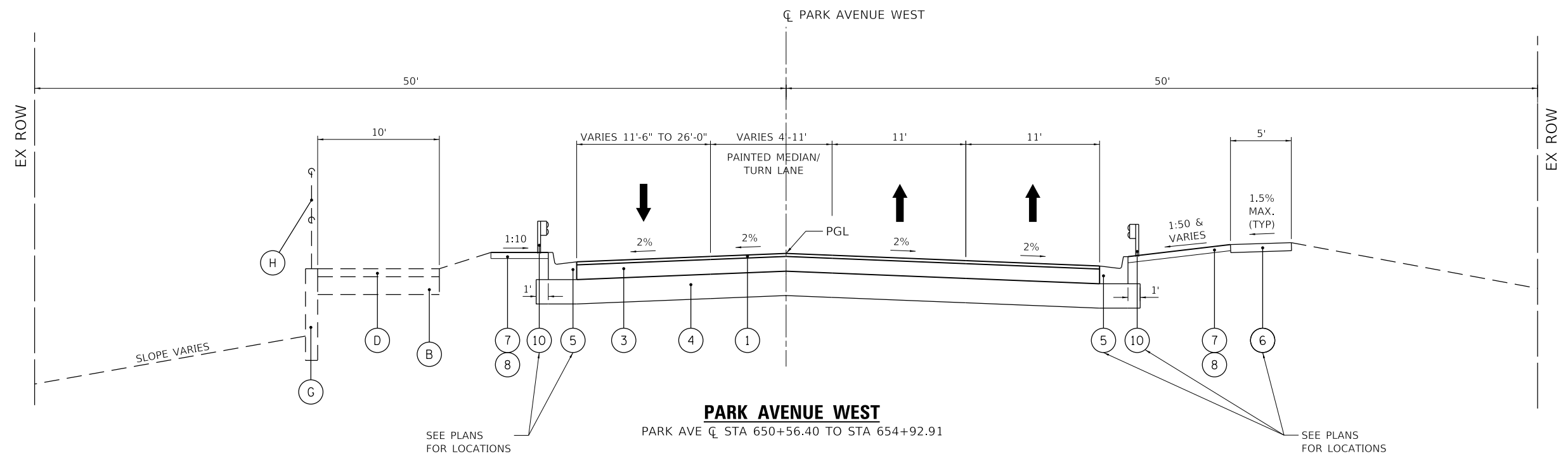
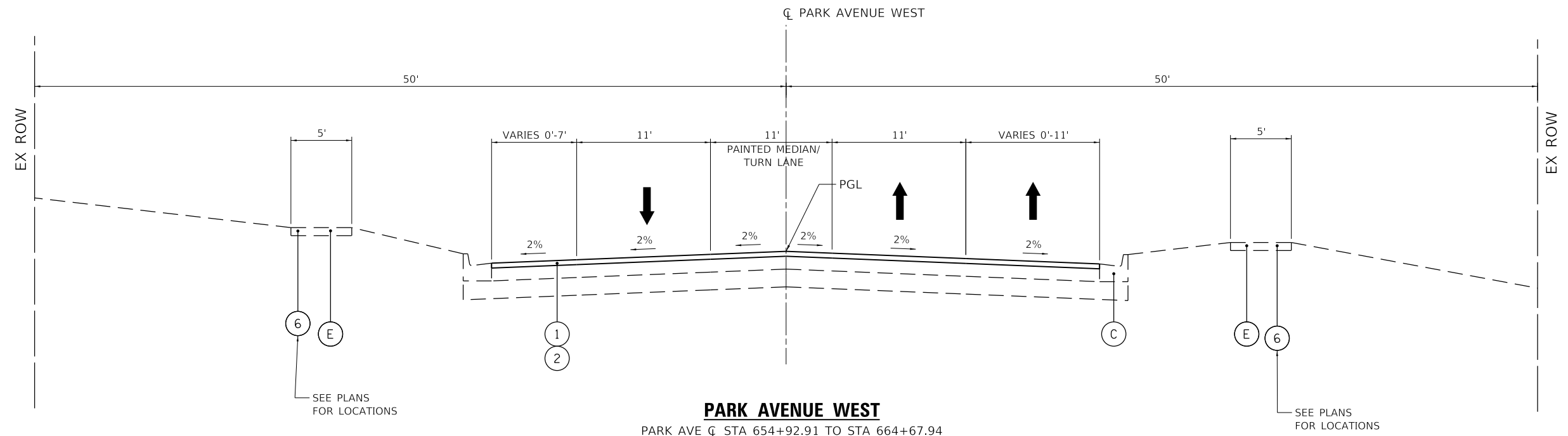
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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
PROPOSED TYPICAL SECTIONS**

SCALE: NTS SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	03-00122-00-BR	LAKE	145	20
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



LEGEND

- | | | | | |
|--|--|---|---|---|
| (A) EXISTING HMA PAVEMENT | (F) EXISTING PORTLAND CEMENT CONCRETE, 8" PAVEMENT | (1) 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | (6) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH | (11) PORTLAND CEMENT CONCRETE SURFACE REMOVAL, VARIABLE DEPTH (SEE MISCELLANEOUS DETAILS SHEET) |
| (B) EXISTING AGGREGATE SUB-BASE, 6" | (G) EXISTING RETAINING WALL/FOUNDATION | (2) 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70 | (7) SODDING, SALT TOLERANT TOPSOIL EXCAVATION AND PLACEMENT | |
| (C) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24 | (H) EXISTING BIKE RAILING | (3) 8 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | (8) HOT-MIX ASPHALT REMOVAL, 3" | |
| (D) EXISTING HMA SHARED-USE PATH 3.75 INCH | | (4) AGGREGATE SUBGRADE IMPROVEMENT 12" | (9) PAVEMENT REMOVAL | |
| (E) EXISTING PCC SIDEWALK 5 INCH | | (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | (10) GUARDRAIL INSTALLATION | |

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
PROPOSED TYPICAL SECTIONS**

SCALE: NTS SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	03-00122-00-BR	LAKE	145	21
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL				
LOCATION	TEMPORARY EROSION CONTROL SEEDING	MULCH METHOD 3A	PERIMETER EROSION BARRIER	PERIMETER EROSION BARRIER, SPECIAL
STATION	POUND	ACRE	FOOT	FOOT
FAU 1255 (PARK AVE. WEST)				
647+29.66 TO 647+30.00	LT		16	
647+29.89 TO 647+86.99	LT	0.6		
647+35.32 TO 649+60.18	RT	4.0		
647+50.00 TO 649+60.00	RT		217	
648+22.60 TO 649+29.28	LT	1.0		
648+23.53 TO 348+36.42	LT		13	
649+30.25 TO 650+20.41	LT			90
649+60.18 TO 650+33.64	RT			73
650+26.42 TO 654+41.76	LT	4.0	253	
650+33.64 TO 653+94.00	RT		362	
650+14.05 TO 653+86.72	RT	5.0	0.05	
654+55.69 TO 654+92.89	RT	0.1	0.001	
659+58.66 TO 659+76.07	LT	0.1	0.001	
660+37.81 TO 660+65.37	LT	0.3	0.003	33
660+50.87 TO 660+75.09	RT	0.2	0.002	23
TOTAL	15	0.15	917	163
PAY		0.25		

TEMPORARY/ SHORT TERM PAVEMENT MARKING									
LOCATION	TEMPORARY PAVEMENT MARKING					LETTERS AND SYMBOLS	SHORT TERM PAVEMENT MARKING REMOVAL	SHORT TERM PAVEMENT MARKING	
	LINE 4"	LINE 6"	LINE 8"	LINE 12"	LINE 24"				
STATION	FOOT	FOOT	FOOT	FOOT	FOOT	SQFT	SQ FT	FOOT	
STAGE 1A									
FAU 1255 (PARK AVE. WEST)									
641+00.00 TO 645+97.80	RT	451					150		
643+00.98 TO 645+68.76	RT/LT	497					166		
644+22.38 TO 645+24.62	RT/LT		26				13		
645+24.62 TO 645+97.80	LT		73				37		
645+46.00	LT					21	21		
645+67.80	LT				20		40		
645+97.80 TO 646+77.80	RT	113					38		
647+33.09 TO 647+48.00	RT	102					34		
647+48.00	LT				21		42		
647+48.00 TO 647+85.58	LT		38				19		
647+48.00 TO 656+16.80	LT/RT	1740					580		
647+48.00 TO 657+46.36	RT	1000					333		
647+70.00	LT					21	21		
647+85.58 TO 648+90.44	LT		26				13		
648+90.44 TO 650+94.17	LT	204					68		
653+72.74 TO 653+97.74	RT	64					21		
654+43.64 TO 654+68.64	RT	64					21		
654+20.30	RT				28		56		
655+00.00 TO 656+16.89	LT	117					39		
WEST OF US ROUTE 41	RT	712	293				41	425	
SUBTOTAL		5064	456	0	0	69	82	2136	0
STAGE 1B									
FAU 1255 (PARK AVE. WEST)									
644+00.00 TO 645+31.17	RT		33				17		
644+22.38 TO 645+98.00	RT/LT	228					76		
644+49.44 TO 645+31.17	RT	83					28		
645+31.17 TO 645+98.00	RT		67				34		
645+50.00	RT					21	21		
645+98.00	RT				22		44		
647+34.55 TO 654+01.63	RT/LT	1363					454		
647+48.00 TO 650+85.96	RT	339					113		
647+48.00 TO 647+85.58	LT		38				19		
647+85.58 TO 648+90.44	LT		26				13		
654+42.53 TO 657+56.00	RT/LT	385					128		
SUBTOTAL		2398	164	0	0	22	21	947	0
STAGE 2									
FAU 1255 (PARK AVE. WEST)									
644+54.38 TO 646+00.83	RT/LT	150					50		
644+86.83 TO 646+34.67	LT	301					100		
647+47.92 TO 657+56.00	RT	2016					672		
647+48.00 TO 648+00.00	RT		51				26		
647+48.00	RT				22		21		
647+69.72 TO 647+95.97	LT	180					60		
648+00.00 TO 649+11.73	RT		28				14		
648+00.00	RT					21	21		
648+22.10 TO 654+54.81	RT/LT	692					231		
654+45.10	LT				15		30		
654+45.16 TO 655+27.97	RT	174					58		
654+92.82 TO 657+27.82	RT/LT	472					157		
655+06.75 TO 657+26.75	LT	235					78		
SUBTOTAL		4220	79	0	0	37	21	1517	0

TEMPORARY/ SHORT TERM PAVEMENT MARKING									
LOCATION	TEMPORARY PAVEMENT MARKING					LETTERS AND SYMBOLS	SHORT TERM PAVEMENT MARKING REMOVAL	SHORT TERM PAVEMENT MARKING	
	LINE 4"	LINE 6"	LINE 8"	LINE 12"	LINE 24"				
STATION	FOOT	FOOT	FOOT	FOOT	FOOT	SQFT	SQ FT	FOOT	
FINAL CONFIGURATION									
FAU 1255 (PARK AVE. WEST)									
643+00.21 TO 643+46.00	LT	46					24	4	
643+00.47 TO 643+46.00	LT	46					32	28	
643+00.74 TO 643+46.00	LT	45					24	4	
643+00.98 TO 645+70.00	RT/LT	1084					380	56	
643+01.02 TO 645+98.00	RT	74					34	28	
643+25.00	LT						21	57	110
643+25.00	LT						21	57	110
643+25.00	-						21	57	110
643+46.00 TO 644+85.00	LT		35				18		
643+46.00 TO 645+45.09	LT				50		200		
643+46.00 TO 645+98.00	LT				63		63		
644+85.00 TO 645+98.00	RT	113					61	12	
645+30.00	RT						21	25	110
645+40.00	LT						8	8	
645+45.09 TO 646+16.28	LT			116			77		
645+68.00	RT				10		23	10	
645+88.00	RT						8	8	
645+98.00	RT						45	22	
647+40.00 TO 647+40.00	-				160		160		
647+48.00	LT				34		69	35	
647+48.00 TO 648+73.00	LT	125					67	12	
647+48.00 TO 650+74.00	LT	82					135	32	
647+48.00 TO 653+90.00	RT/LT	2462					862	124	
647+48.00 TO 654+92.80	RT	186					87	76	
647+55.00	LT						8	8	
647+55.00	RT						8	8	
647+88.00	-						21	57	110
648+73.00 TO 650+53.00	LT	45					23		
649+15.58 TO 650+56.42	RT	123					41		
650+05.00	LT						8	8	
650+10.00	RT						8	8	
650+74.00 TO 653+90.00	-				150		150		
654+30.00 TO 655+23.00	LT	92					77	8	
654+30.00 TO 657+61.50	RT/LT	1154					393	56	
654+38.00	LT						9	9	46
654+59.02 TO 655+11.93	LT		85				57		
654+59.02 TO 655+11.93	LT				35		35		
654+65.54	LT						13	26	
654+75.00	LT						8	8	
654+75.00	RT						8	8	
655+03.00	LT						21	22	110
655+23.00 TO 656+13.00	LT	23					12		
655+23.00 TO 657+61.50	-				121		121		
657+09.93 TO 659+82.01	LT				81		97	12	
657+09.93 TO 659+82.01	LT	279					81		
658+11.00 TO 658+59.00	LT	48					25	4	
658+11.00 TO 659+24.00	RT/LT	358					119		
658+11.00 TO 664+68.00	RT						21	64	
658+40.00	LT						57	110	
658+59.00 TO 659+24.00	LT	16					8		
658+59.00 TO 664+68.00	LT						20	60	
659+24.00 TO 662+67.92	RT/LT	860					573		
659+30.00	LT						8	8	
659+30.00	RT						8	8	
659+73.00	-						18	48	91
659+78.94 TO 660+38.94	LT				126		126		
660+00.00	LT					31	72	31	
660+03.00 TO 660+03.00	LT	6					3	4	
660+14.00 TO 660+14.00	LT	12					5	4	
660+56.76 TO 660+57.88	-				72		72		
662+67.92 TO 664+67.94	RT/LT	800					267		
662+68.00 TO 664+67.94	-				67		67		
662+23.00	-						18	48	91
SUBTOTAL		7480	634	201	925	110	268	5369	1684
TOTAL		19162	1333	201	925	238	392	9968	1684

TREEREMOVAL/ ROOTPRUNING/ PROTECTION			
LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE ROOT PRUNING	TEMPORARY FENCE (SPECIAL)
STATION	UNIT	EACH	FOOT
FAU 1255 (PARK AVE. WEST)			
648+09.54	38	RT	19
648+43.17	36	RT	25
648+76.97	33	RT	19
649+13.72	44	RT	31
649+21.61	45	RT	38
649+23.67	46	RT	38
649+36.94	47	RT	38
649+38.51	48	RT	38
649+49.49	44	RT	8
649+49.50	44	RT	8
650+22.86	39	RT	6
651+07.79	35	RT	1
651+42.29	34	RT	1
651+80.55	34	RT	1
652+22.45	34	RT	1
652+61.16	35	RT	1
653+02.01	35		

PAVEMENT MARKING																
LOCATION			THERMOPLASTIC PAVEMENT MARKING					MODIFIED URETHANE PAVEMENT MARKING			RAISED REFLECTIVE PAVEMENT MARKER	PAVEMENT MARKING REMOVAL - WATER BLASTING				
			LINE 4"	LINE 6"	LINE 8"	LINE 12"	LINE 24"	LETTERS & SYMBOLS	LINE 4"	LINE 6"			LETTERS & SYMBOLS			
STATION			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	SQ FT	EACH	SQ FT
FAU 1255 (PARK AVE. WEST)																
643+00.88	TO	645+70.00	-					10							28	382
643+00.88	TO	645+66.29	LT													131
643+00.88	TO	643+46.00	LT		138						111				6	46
643+46.00	TO	644+85.00	LT		35						8					
643+00.88	TO	645+98.00	RT	74	113				22	37					8	
643+00.88	TO	646+21.88	RT													107
643+46.00	TO	645+98.00	LT				113									19
643+46.00	TO	644+85.00	RT													18
644+85.00	TO	645+98.00	RT													121
645+45.00	TO	646+17.00	LT			117										68
647+48.00	TO	649+05.49	LT	42	81			37	29						9	96
647+48.00	TO	650+90.00	LT												10	29
647+48.00	TO	649+05.49	RT	147					16							
647+36.00	TO	647+44.00	-				160									
647+46.00	TO	649+05.49	-	1874			153		24						63	653
648+08.00	TO	648+73.62	LT													9
649+05.49	TO	650+66.42	LT						40	37	8					
649+05.49	TO	650+66.42	RT						630		8					
650+90.00	TO	653+89.50	-													181
654+30.00	TO	657+62.00	-	1154			123								30	432
654+30.00	TO	655+23.00	LT		93	86	36		40						3	29
655+23.00	TO	656+13.00	LT		23											12
655+23.00	TO	657+61.50	-													142
657+10.00	TO	659+82.00	LT	279	64		85		58						3	
658+11.00	TO	659+24.00	-	358												
658+11.00	TO	664+68.00	RT						8						34	
658+59.00	TO	664+68.00	LT												32	
659+24.00	TO	662+68.00	-	860			72		72							
659+78.00	TO	660+40.00	LT				126	31								
660+03.00	TO	660+03.00	LT		6											
660+14.00	TO	660+14.00	LT	12												
662+68.00	TO	664+68.00	-	800			68									
WEST OF US 41				196	248											189
TOTAL			6880	801	203	936	100	403	670	37	16	226	2664			

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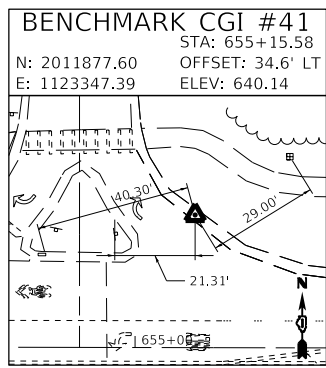
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	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

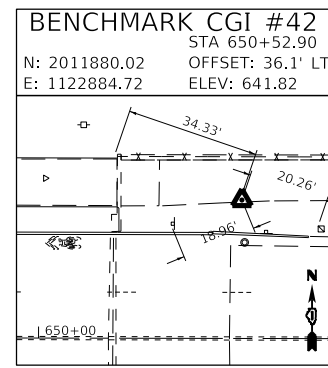
FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 3 OF 3 SHEETS STA. TO STA.

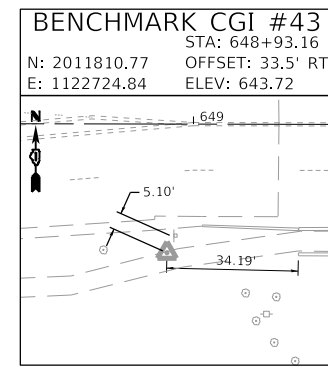
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	24
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



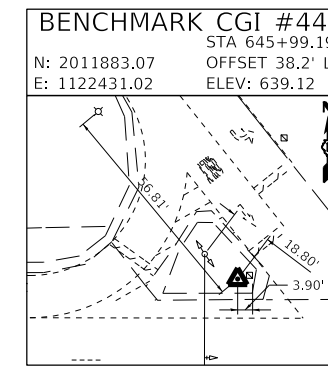
"X" IN TOP OF CURB ON NORTH SIDE OF PARK AVE, AT RT TURN LANE FOR LOT



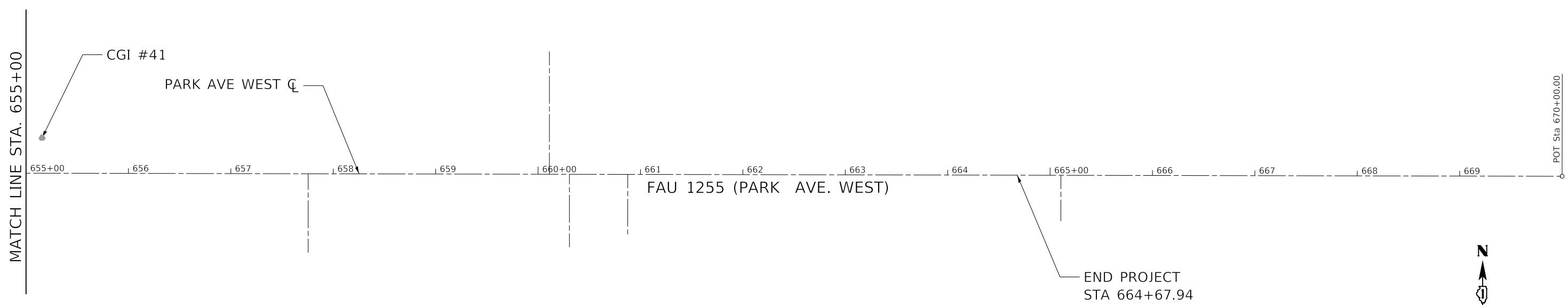
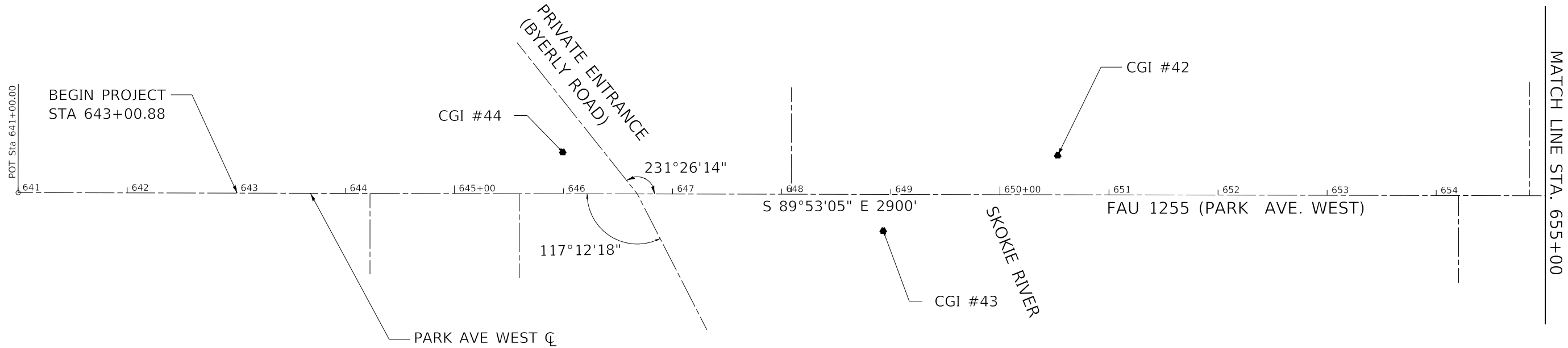
NAIL IN SOUTH EDGE OF NORTH ASPHALT WALK, 30' EAST OF BRIDGE OVER SKOKIE



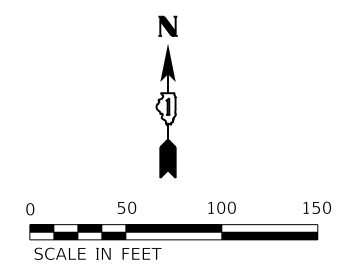
"X" CUT @ THE NORTH EDGE OF THE SOUTH CONCRETE WALK, 50' WEST OF BRIDGE



"X" CUT IN ISLAND AT NORTHWEST CORNER OF INTERSECTION



DATUM=NAVD 88



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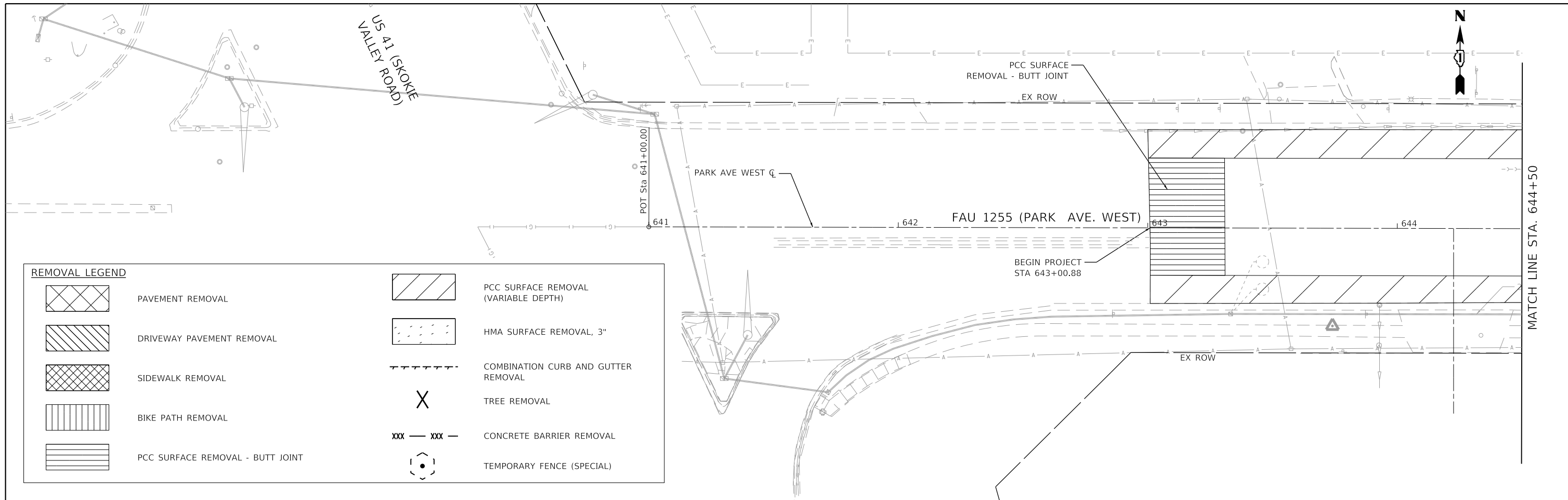
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

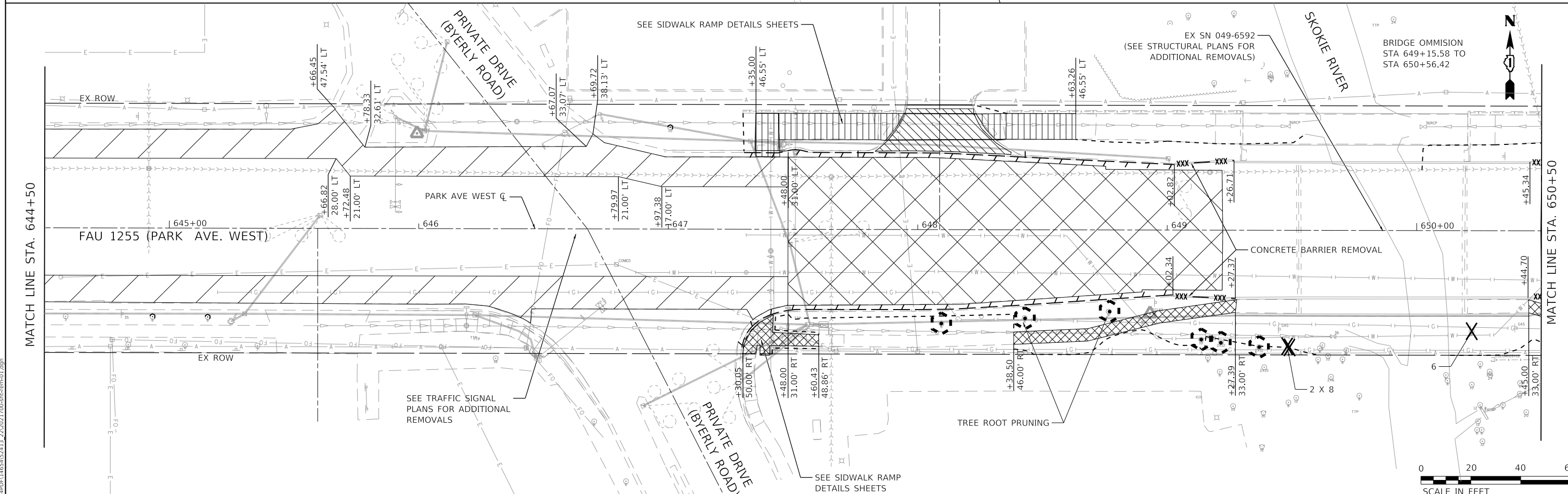
**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	25
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND	
	PAVEMENT REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	BIKE PATH REMOVAL
	PCC SURFACE REMOVAL - BUTT JOINT
	PCC SURFACE REMOVAL (VARIABLE DEPTH)
	HMA SURFACE REMOVAL, 3"
	COMBINATION CURB AND GUTTER REMOVAL
	TREE REMOVAL
	CONCRETE BARRIER REMOVAL
	TEMPORARY FENCE (SPECIAL)



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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
REMOVAL PLANS

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 643+00.88 TO STA. 650+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	26
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

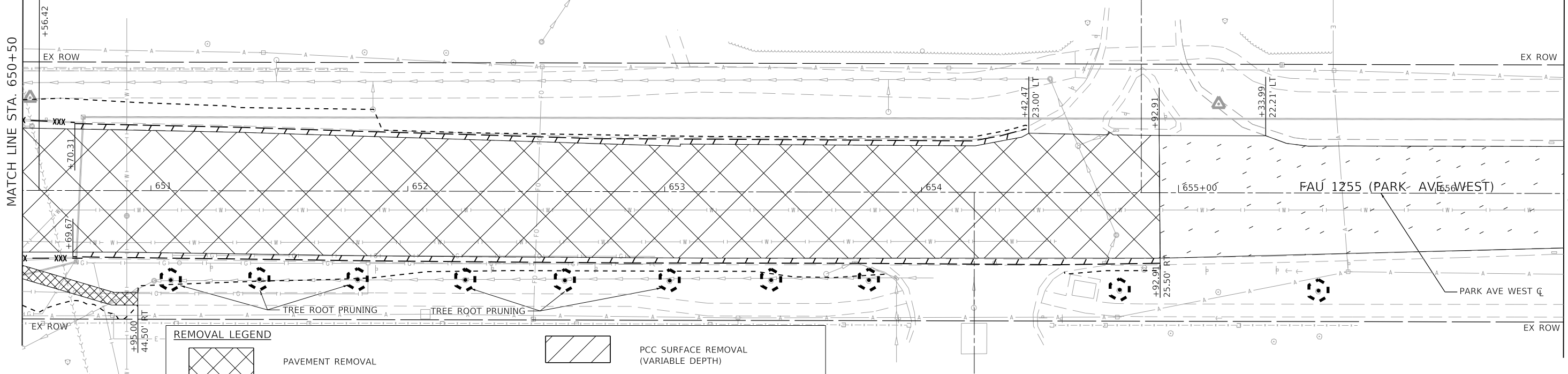
BRIDGE OMISSION
 STA 649+15.58 TO
 STA 650+56.42

ENTRANCE
 HIGHLAND PARK
 COUNTRY CLUB



MATCH LINE STA. 650+50

MATCH LINE STA. 656+50



REMOVAL LEGEND

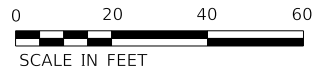
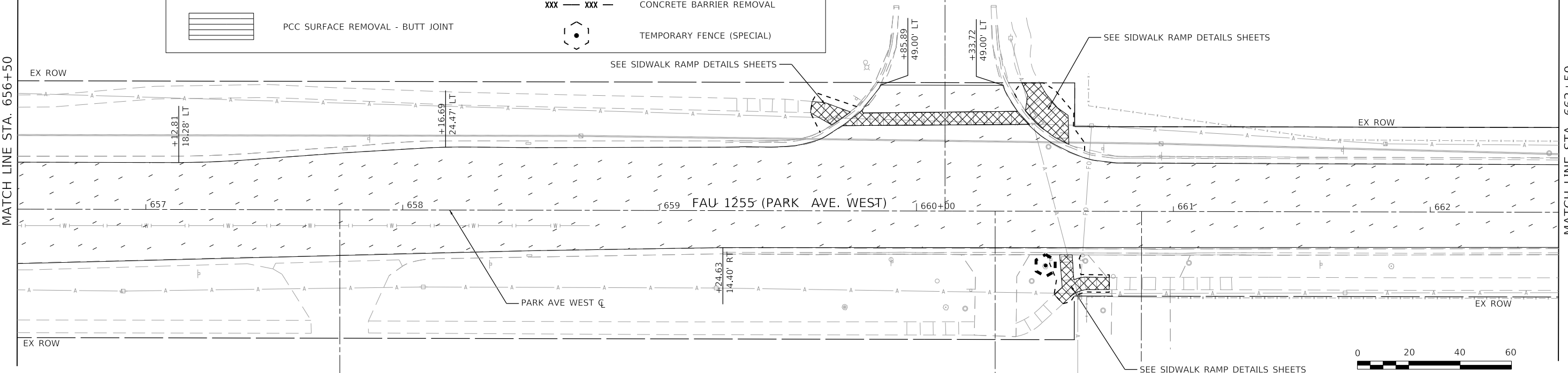
	PAVEMENT REMOVAL		PCC SURFACE REMOVAL (VARIABLE DEPTH)
	DRIVEWAY PAVEMENT REMOVAL		HMA SURFACE REMOVAL, 3"
	SIDEWALK REMOVAL		COMBINATION CURB AND GUTTER REMOVAL
	BIKE PATH REMOVAL		TREE REMOVAL
	PCC SURFACE REMOVAL - BUTT JOINT		CONCRETE BARRIER REMOVAL
			TEMPORARY FENCE (SPECIAL)

EAST ENTRANCE
 HIGHLAND PARK
 COUNTRY CLUB



MATCH LINE STA. 656+50

MATCH LINE STA. 662+50



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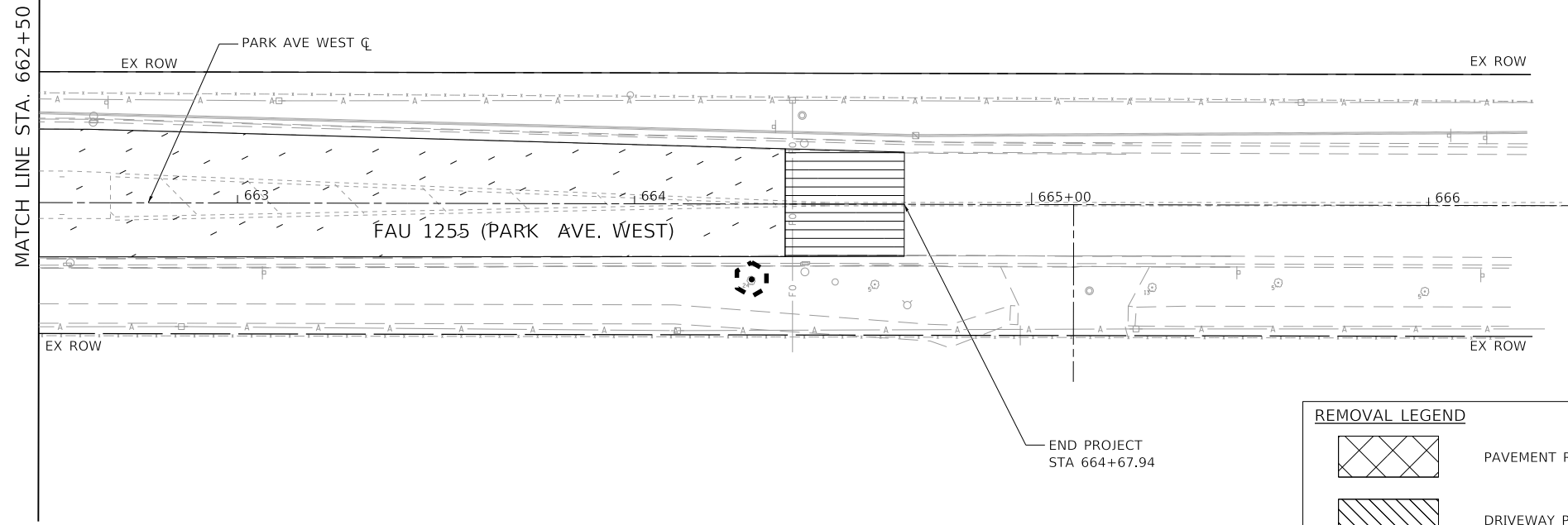
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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

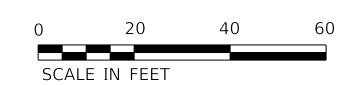
**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 REMOVAL PLANS**

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. 650+50.00 TO STA. 662+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	27
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND	
	PAVEMENT REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	BIKE PATH REMOVAL
	PCC SURFACE REMOVAL - BUTT JOINT
	PCC SURFACE REMOVAL (VARIABLE DEPTH)
	HMA SURFACE REMOVAL, 3"
	COMBINATION CURB AND GUTTER REMOVAL
	TREE REMOVAL
	CONCRETE BARRIER REMOVAL
	TEMPORARY FENCE (SPECIAL)



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 DATE: 9/20/2022



USER NAME = PWICSS	DESIGNED - TMG	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - MFB	REVISED -
PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
REMOVAL PLANS

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 662+50.00 TO STA. 666+00.00

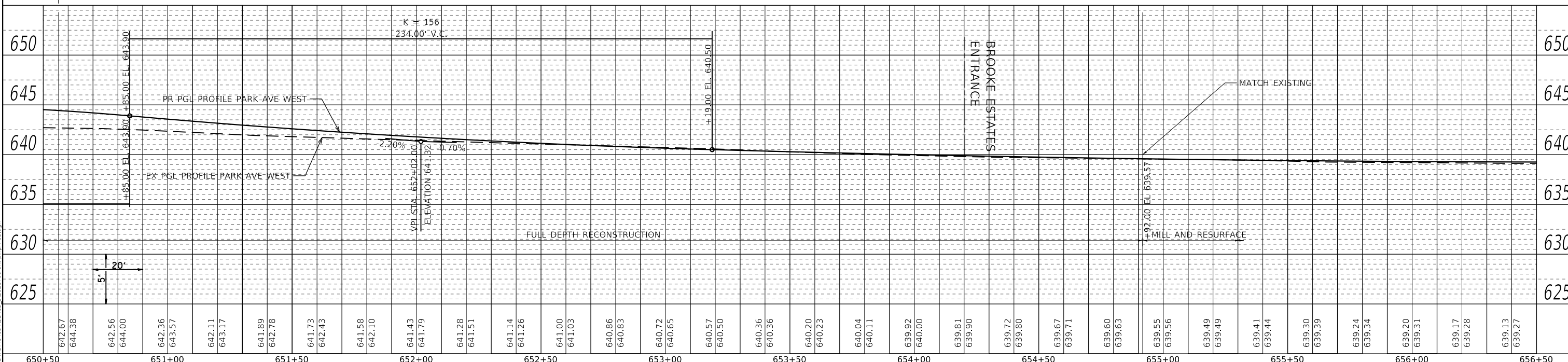
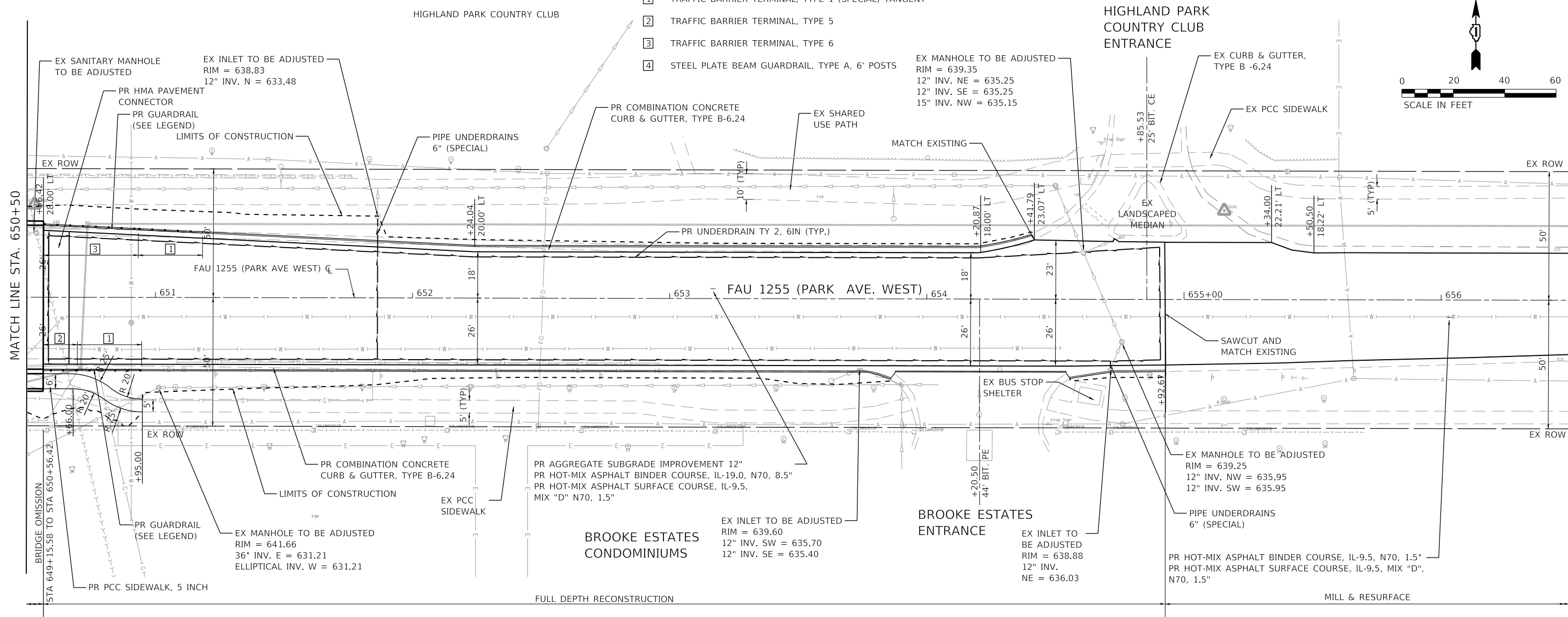
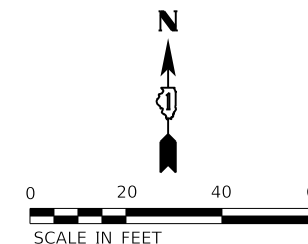
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	28
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

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

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

- LEGEND:
- 1 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - 2 TRAFFIC BARRIER TERMINAL, TYPE 5
 - 3 TRAFFIC BARRIER TERMINAL, TYPE 6
 - 4 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS

HIGHLAND PARK COUNTRY CLUB
ENTRANCE



MODEL: Defaul
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USER NAME = PWICSS	DESIGNED - TMG	REVISED -
	DRAWN - TMG	REVISED -
	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
PLAN & PROFILE

SCALE: 1" = 20' SHEET 3 OF 5 SHEETS STA. 650+50.00 TO STA. 656+50.00

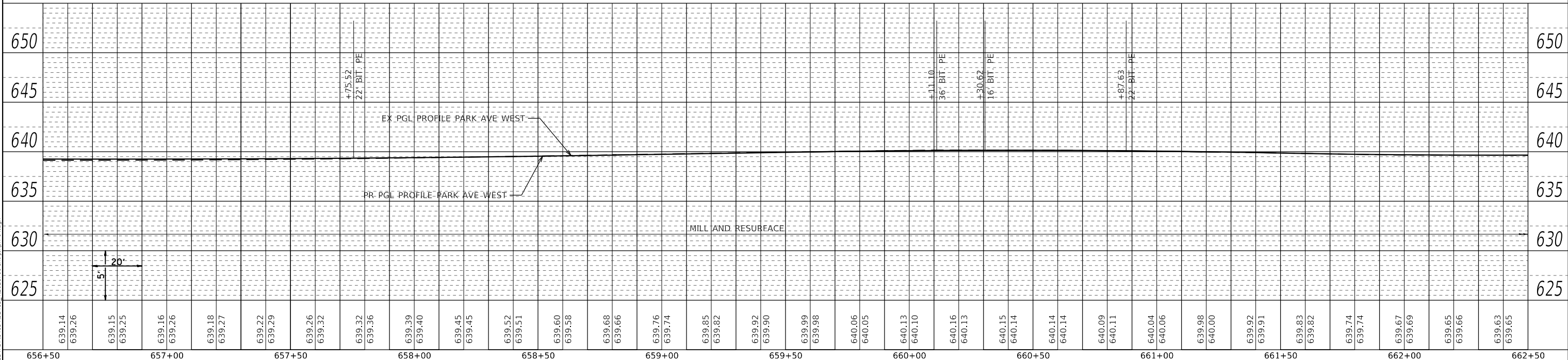
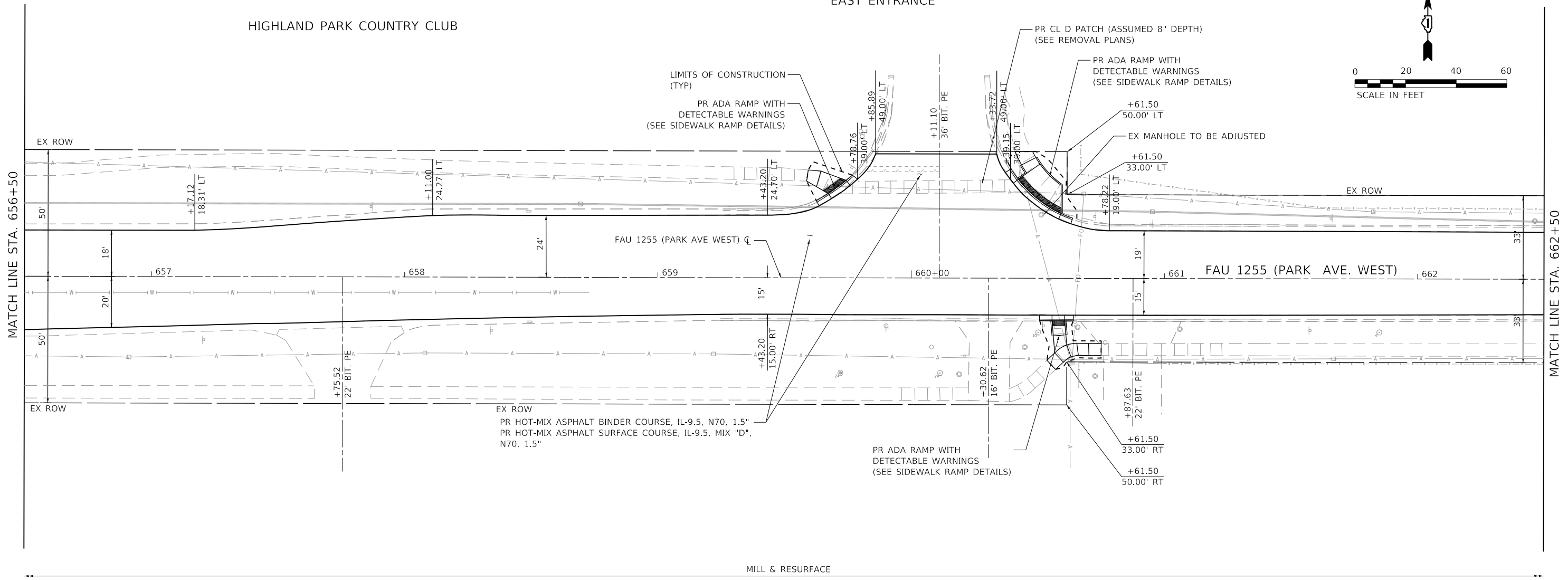
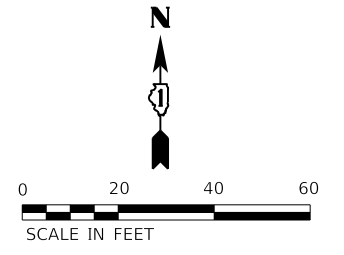
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	31
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
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PROFILE	SURVEYED	DATE
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HIGHLAND PARK COUNTRY CLUB
EAST ENTRANCE



656+50	657+00	657+50	658+00	658+50	659+00	659+50	660+00	660+50	661+00	661+50	662+00	662+50																																																
639.14	639.26	639.15	639.25	639.16	639.26	639.18	639.27	639.22	639.29	639.26	639.32	639.32	639.32	639.36	639.39	639.40	639.45	639.45	639.52	639.51	639.60	639.58	639.68	639.66	639.76	639.74	639.85	639.82	639.92	639.90	639.99	639.98	640.06	640.05	640.13	640.10	640.16	640.13	640.15	640.14	640.14	640.14	640.09	640.11	640.04	640.06	639.98	640.00	639.92	639.91	639.83	639.82	639.74	639.74	639.67	639.69	639.65	639.66	639.63	639.65

HORNER SHIFRIN
WWW.HORNERSHIFRIN.COM

USER NAME = PWICSS	DESIGNED - TMG	REVISED -
	DRAWN - TMG	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - MFB	REVISED -
PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
PLAN & PROFILE

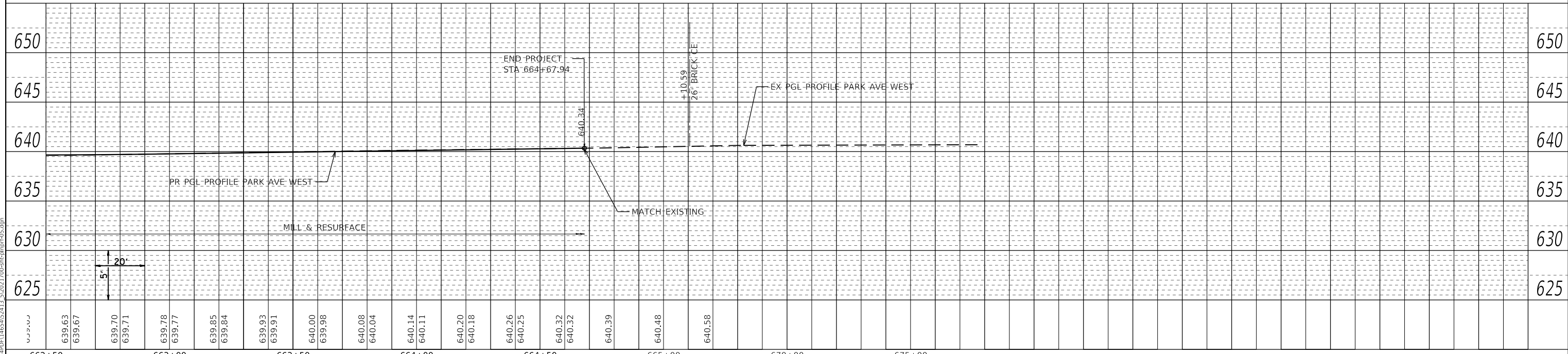
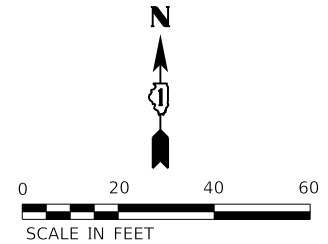
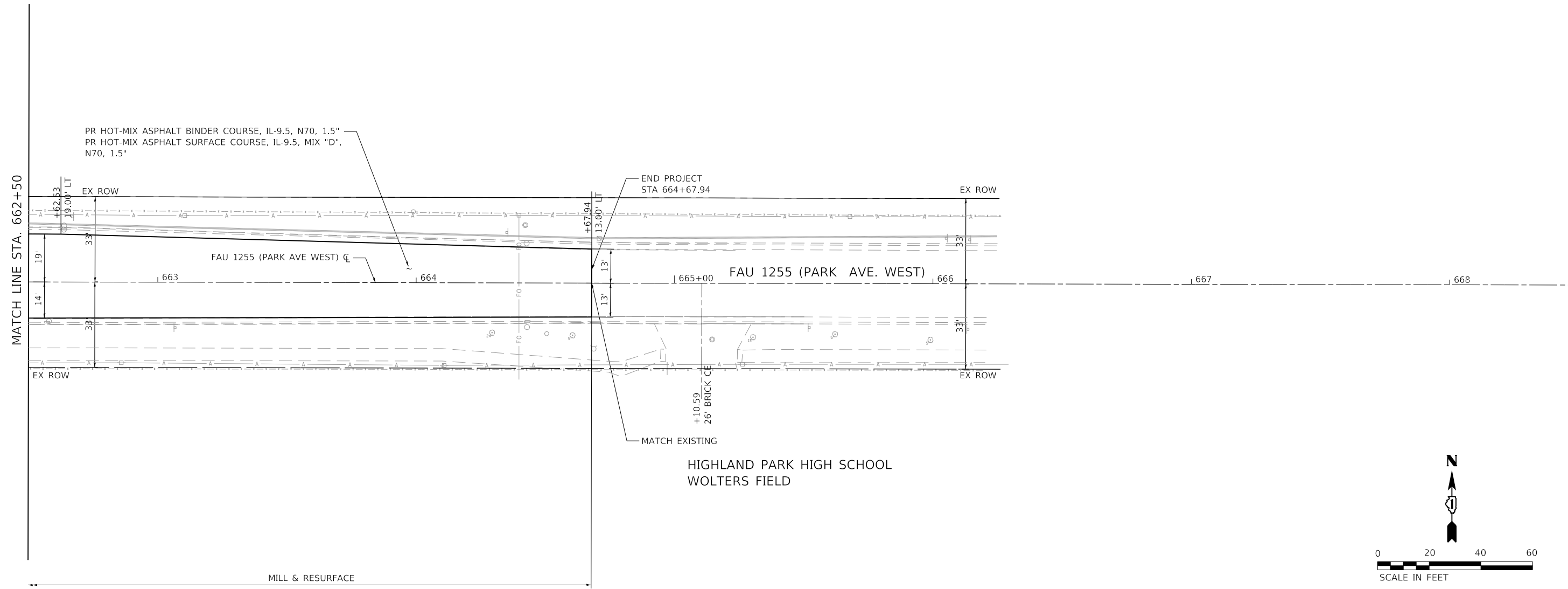
SCALE: 1" = 20' SHEET 4 OF 5 SHEETS STA. 656+50.00 TO STA. 662+50.00

F.A.U. RTE. 1255	SECTION 13-00122-00-BR	COUNTY LAKE	TOTAL SHEETS 145	SHEET NO. 32
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
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	FILE NAME	

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

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640.20	640.18	640.26	640.25	640.32	640.32	640.39	640.48
640.58							

HORNER SHIFRIN
WWW.HORNERSHIFRIN.COM

USER NAME = PWICSS	DESIGNED - TMG	REVISED -
	DRAWN - TMG	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - MFB	REVISED -
PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
PLAN & PROFILE

SCALE: 1" = 20' SHEET 5 OF 5 SHEETS STA. 662+50.00 TO STA. 666+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	33
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

**SUGGESTED MAINTENANCE OF
TRAFFIC GENERAL NOTES**

- ALL THE TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS, THE APPROPRIATE DISTRICT AND STATE STANDARDS, THE SPECIAL PROVISIONS FOR CONSTRUCTION ZONE TRAFFIC CONTROL, OR THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED.
- THE SUGGESTED MAINTENANCE OF TRAFFIC PLAN SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE STAGING OF THE SUGGESTED MAINTENANCE OF TRAFFIC PLAN FOR HIS/HER CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CONTRACTOR-PROPOSED MODIFICATIONS SHALL BE SUBMITTED FOR THE WRITTEN APPROVAL OF THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONTRACTOR REQUESTED MODIFICATIONS.
- A DROP OFF GREATER THAN 12 INCHES, WITHIN 8 FEET OF AN OPEN TRAFFIC LANE SHALL NOT BE ALLOWED. THE CONTRACTOR SHALL PROVIDE A MINIMUM 1V:4H AGGREGATE RAMP FOR ALL DROP OFF GREATER THAN 12 INCHES. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- TEMPORARY TRAFFIC SIGNALS WILL BE CONSTRUCTED AT PARK AVENUE WEST & BYERLY ROAD ENTRANCE AS SHOWN ON THE PLANS. TEMPORARY SIGNALIZATION SHALL BE ADJUSTED TO ACCOMMODATE THE VARIOUS STAGES OF CONSTRUCTION AND PER THE DIRECTION OF THE ENGINEER. ANY ADDITIONAL COSTS FOR SUBSTAGE CONSTRUCTION SUCH AS SHIFTING OF BARRICADES AND SIGNAL HEADS REQUIRED TO CONSTRUCT ROADWAY INTERSECTIONS SHALL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS ASSOCIATED WITH THE WORK IN THIS CONTRACT.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 7 CALENDAR DAYS IN ADVANCE OF TRAFFIC CONTROL SWITCH BETWEEN STAGES. THE CONTRACTOR SHALL ALSO CONFIRM THE PLANNED STAGE CHANGE WITH THE ENGINEER 24 HOURS PRIOR.
- TYPE III BARRICADES WILL BE PROVIDED AT LOCATIONS SHOWN IN THE PLANS TO PROVIDE A PROPER CLOSURE, SPACING AND PLACEMENT AS SHOWN ON STANDARD 701901-08 OR AS APPROVED BY THE ENGINEER.
- PRIOR TO REMOVING TRAFFIC CONTROL AND OPENING CLOSED PAVEMENT AREAS TO TRAFFIC, THE CONTRACTOR SHALL SWEEP THE PAVEMENT SURFACE CLEAN. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- PAVEMENT, CURB, SIDEWALK AND DRIVEWAYS TO BE REMOVED MUST BE COMPLETELY REMOVED FROM THE SITE BY THE END OF THE DAY. NO REMOVAL ITEMS MAY BE SORTED ON SITE.
- SIDEWALK CLOSURES SHALL BE ACCORDING TO STANDARD 701801 AND PER THE DIRECTION OF THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- ACCESS TO DRIVEWAYS, ENTRANCES, AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT IN SHORT TERM CASES FOR PLACEMENT OF AGGREGATE & PAVING OPERATIONS.
- TWO "DRIVEWAY ENTRANCE" SIGNS SHALL BE USED AT EACH COMMERCIAL DRIVEWAY ENTRANCE PER TC-26. MAINTAIN ACCESS TO AT LEAST ONE COMMERCIAL ENTRANCE PER BUSINESS AT ALL TIMES DURING CONSTRUCTION OPERATIONS.
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- REMOVE EXISTING PAVEMENT MARKING AS DIRECTED BY THE ENGINEER TO AVOID CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL THAT ARE SUGGESTED IN THE MAINTENANCE OF TRAFFIC PLAN.

CONSTRUCTION STAGING NOTES

STAGE 1A

CONSTRUCTION:

- ERECT TEMPORARY SIGNALS.
- CONSTRUCT PROPOSED EASTBOUND PAVEMENT AND WATER MAIN.
- CONSTRUCT SOUTHERN HALF OF BRIDGE.

MAINTENANCE OF TRAFFIC:

- MAINTAIN ONE LANE IN EACH DIRECTION ON WESTBOUND PAVEMENT AND BRIDGE PER MAINTENANCE OF TRAFFIC PLANS - STAGE 1.
- MAINTAIN WESTBOUND LEFT TURN LANE AT EXISTING SIGNALIZED INTERSECTION AS SHOWN ON SUGGESTED MAINTENANCE OF TRAFFIC PLANS - STAGE 1.
- CLOSE PEDESTRIAN ACCESS ON SIDEWALK ON SOUTH SIDE OF PROPOSED BRIDGE. MOVE PEDESTRIAN TRAFFIC TO NORTH SHARED USE PATH PER STANDARD 701801.

STAGE 1B

CONSTRUCTION:

- RELOCATE TEMPORARY SIGNALS HEADS FOR PARK AVENUE WEST TRAFFIC.
- CONSTRUCT PROPOSED WESTBOUND PAVEMENT WEST OF BRIDGE FOR BYERLY INTERSECTION.

MAINTENANCE OF TRAFFIC:

- MAINTAIN ONE LANE IN EACH DIRECTION ON EASTBOUND PAVEMENT AND BRIDGE PER SUGGESTED MAINTENANCE OF TRAFFIC PLANS - STAGE 1B.

STAGE 2

CONSTRUCTION:

- RELOCATE TEMPORARY SIGNALS HEADS FOR PARK AVENUE WEST TRAFFIC.
- CONSTRUCT PROPOSED WESTBOUND PAVEMENT.
- CONSTRUCT NORTHERN HALF OF BRIDGE.

MAINTENANCE OF TRAFFIC:

- MAINTAIN ONE LANE IN EACH DIRECTION ON EASTBOUND PAVEMENT AND BRIDGE PER SUGGESTED MAINTENANCE OF TRAFFIC PLANS - STAGE 2.
- CLOSE ACCESS TO SHARED USED PATH ON NORTH SIDE OF PROPOSED BRIDGE. MOVE MULTI-USE TRAFFIC TO SOUTH SIDEWALK UTILIZING STANDARD 701801.
- SIGNAGE ADVISING BICYCLISTS TO WALK THEIR BICYCLES WILL BE PLACED AS REQUIRED AND DIRECTED BY THE ENGINEER.

STAGE 3

CONSTRUCTION:

- PERFORM MILLING OPERATIONS.

MAINTENANCE OF TRAFFIC:

- MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION PER STANDARDS 701502, 701601, 701606 AND 701701.

STAGE 4

CONSTRUCTION:

- PERFORM PAVING OPERATIONS FOR FULL CORRIDOR. PLACE FINAL PAVEMENT MARKINGS.

MAINTENANCE OF TRAFFIC:

- MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION PER STANDARDS 701502, 701601, 701606, AND 701701 FOR PAVING; 701311, 701427, AND 701606 FOR PAVEMENT MARKINGS.

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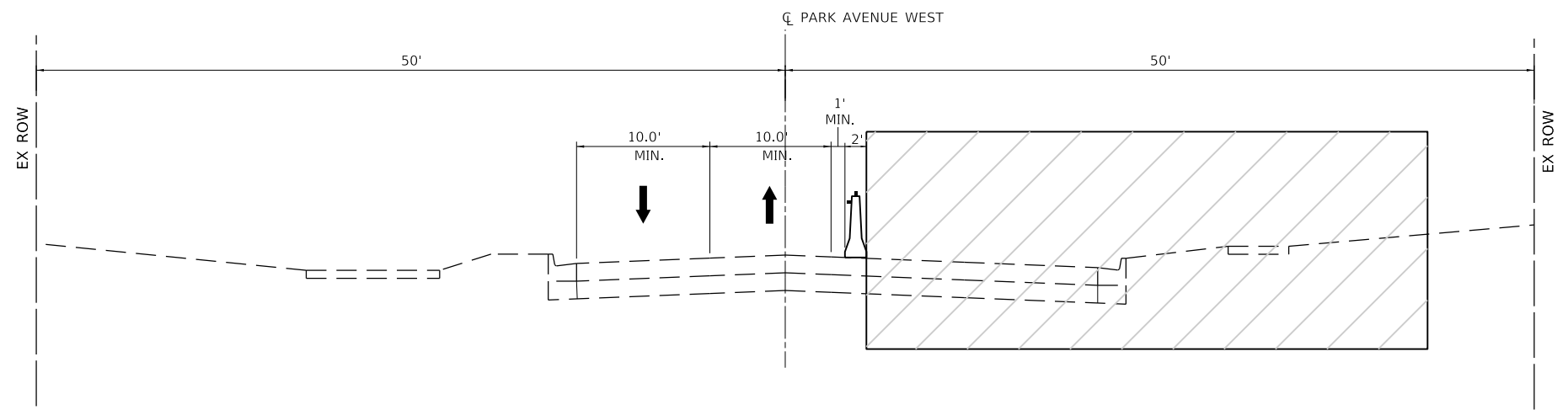
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

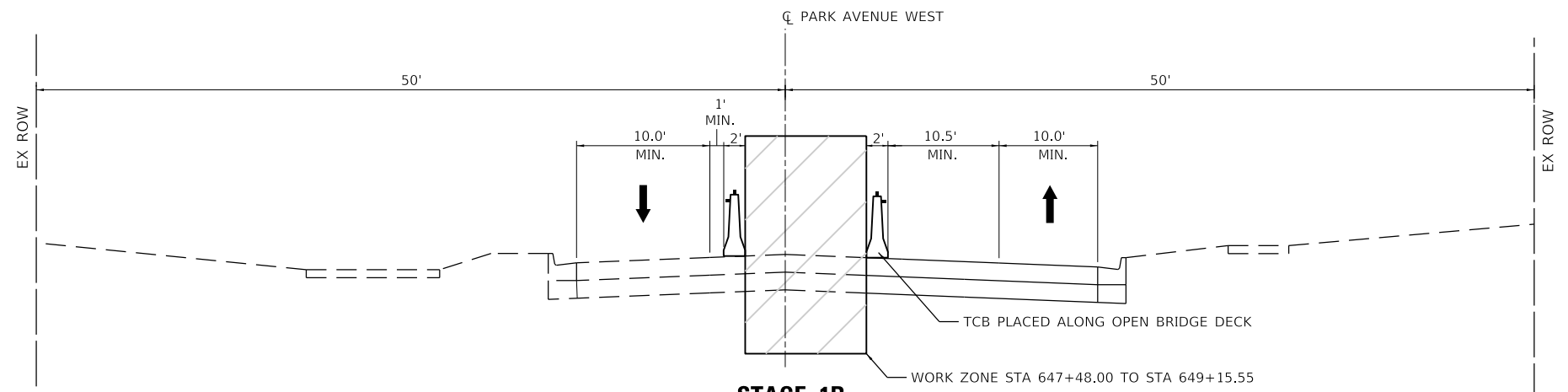
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SUGGESTED MOT GENERAL NOTES & CONSTRUCTION STAGING**

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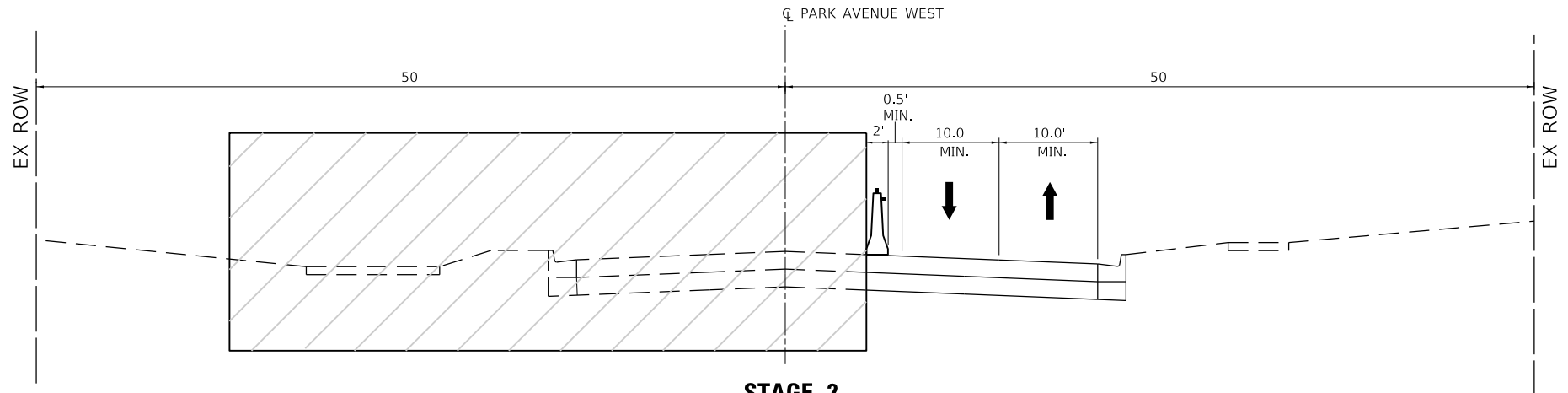
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1255	13-00122-00-BR	LAKE	145	34
ILLINOIS			CONTRACT NO. 61H33	
ILLINOIS			FED. AID PROJECT	



STAGE 1A
PARK AVENUE WEST



STAGE 1B
PARK AVENUE WEST




STAGE 2
PARK AVENUE WEST


STAGE 3 PARK AVENUE WEST - PER STANDARDS 701502, 701601, 701606, 701701

STAGE 4 PARK AVENUE WEST - PER STANDARDS 701311, 701427, 701502, 701601, 701602, 701606, 701701

LEGEND



TEMPORARY CONCRETE BARRIER WITH TYPE C REFLECTORS PER STD 704001 AND 782006



CONSTRUCTION AREA

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

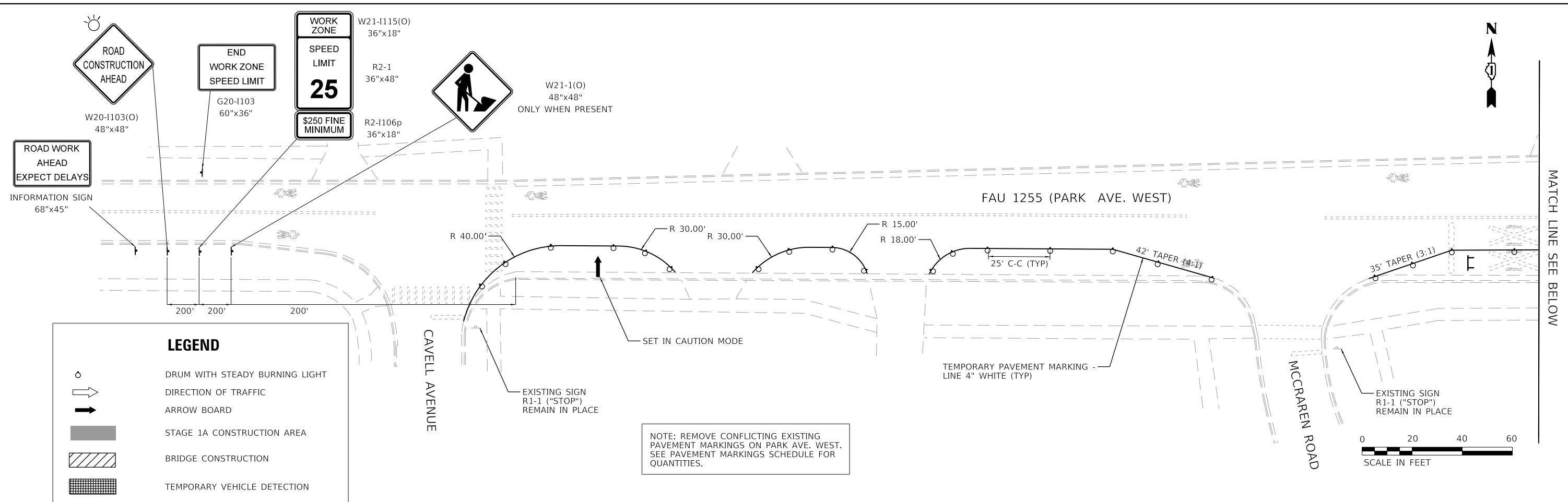
**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC TYPICAL SECTIONS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	35
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



MATCH LINE SEE BELOW



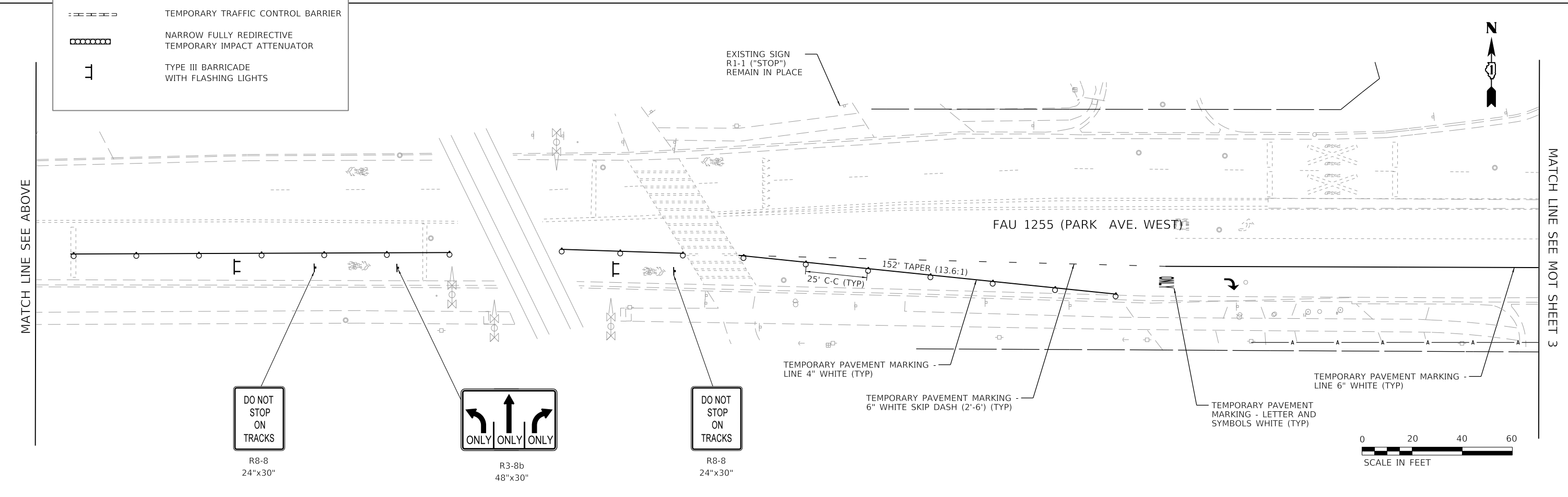
NOTE: REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS ON PARK AVE. WEST. SEE PAVEMENT MARKINGS SCHEDULE FOR QUANTITIES.

LEGEND

- DRUM WITH STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- STAGE 1A CONSTRUCTION AREA
- BRIDGE CONSTRUCTION
- TEMPORARY VEHICLE DETECTION
- TEMPORARY TRAFFIC CONTROL BARRIER
- NARROW FULLY REDIRECTIVE
- TEMPORARY IMPACT ATTENUATOR
- TYPE III BARRICADE WITH FLASHING LIGHTS



MATCH LINE SEE NOT SHEET 3



MATCH LINE SEE ABOVE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

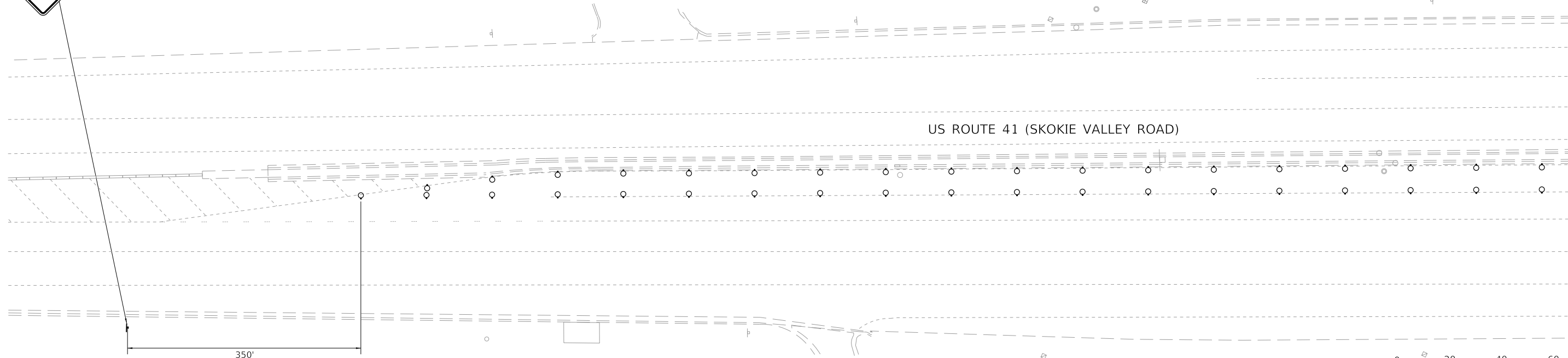
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SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1A**

SCALE: 1" = 20' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



W20-1103(O)
48"x48"












US ROUTE 41 (SKOKIE VALLEY ROAD)

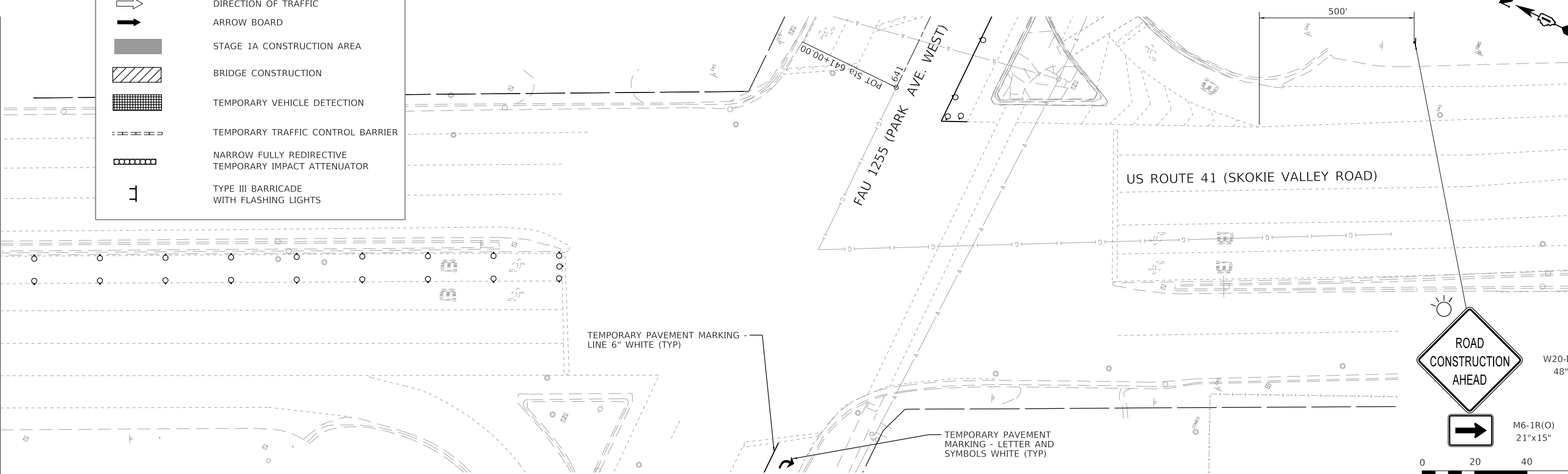
MATCH LINE (SEE BELOW)



LEGEND

-  DRUM WITH STEADY BURNING LIGHT
-  DIRECTION OF TRAFFIC
-  ARROW BOARD
-  STAGE 1A CONSTRUCTION AREA
-  BRIDGE CONSTRUCTION
-  TEMPORARY VEHICLE DETECTION
-  TEMPORARY TRAFFIC CONTROL BARRIER
-  NARROW FULLY REDIRECTIVE TEMPORARY IMPACT ATTENUATOR
-  TYPE III BARRICADE WITH FLASHING LIGHTS

MATCH LINE (SEE ABOVE)



FAU 1255 (PARK AVE. WEST)

US ROUTE 41 (SKOKIE VALLEY ROAD)



W20-1103(O)
48"x48"



M6-1R(O)
21"x15"



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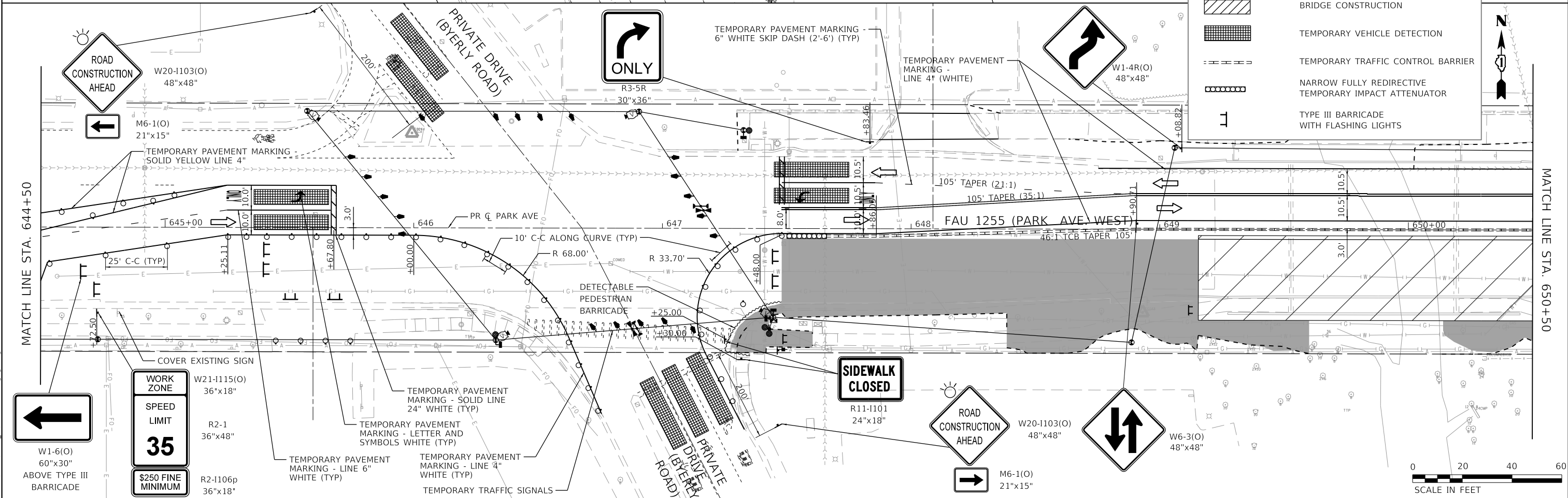
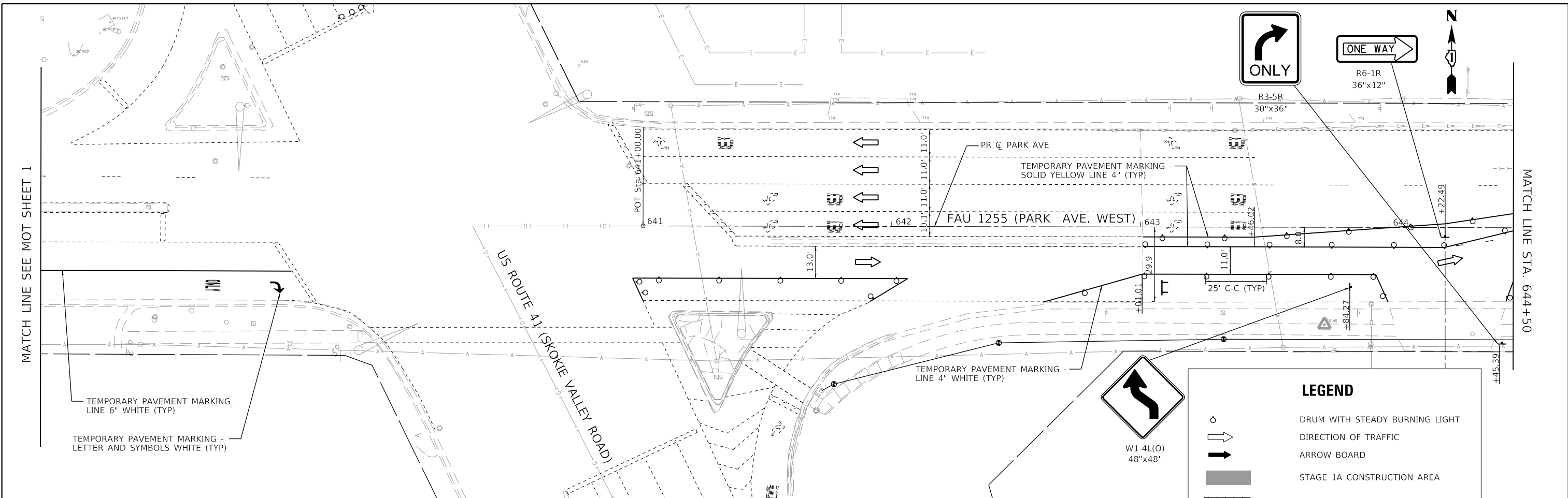
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1A**

SCALE: 1" = 20' SHEET 2 OF 4 SHEETS STA. TO STA.

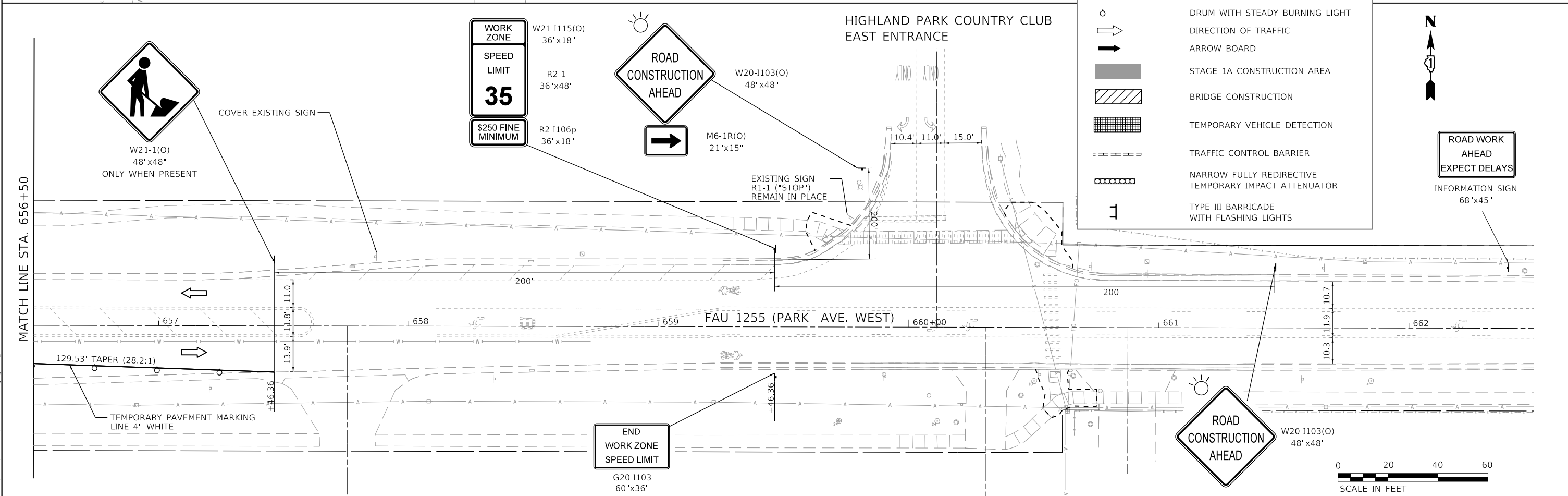
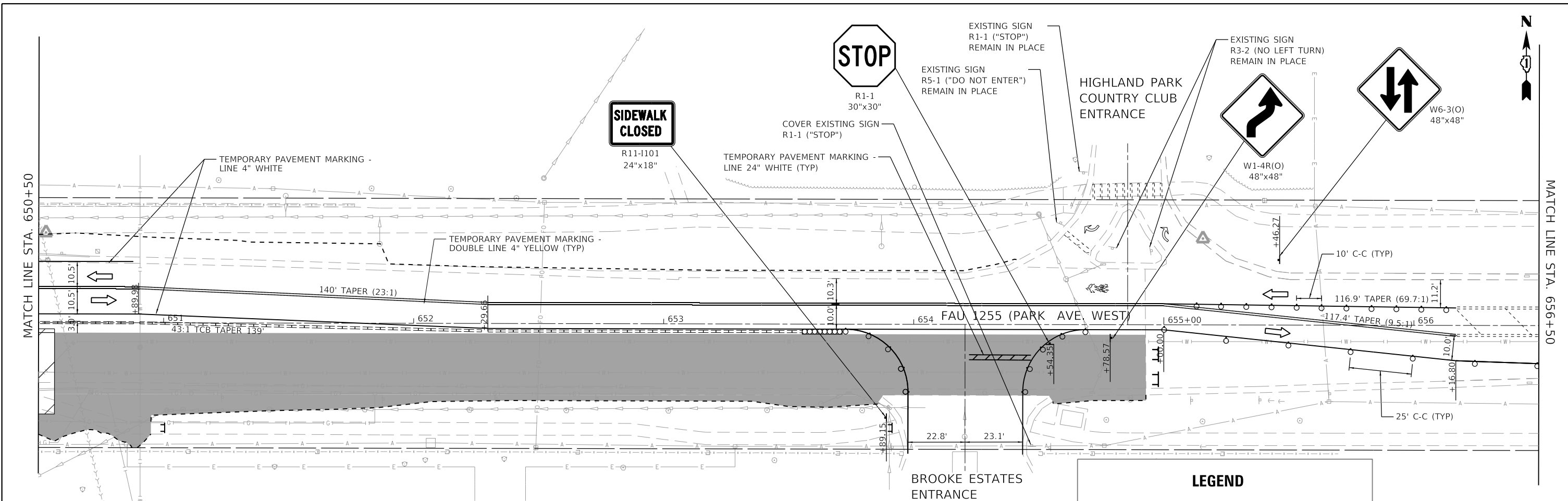
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	37
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



LEGEND	
	DRUM WITH STEADY BURNING LIGHT
	DIRECTION OF TRAFFIC
	ARROW BOARD
	STAGE 1A CONSTRUCTION AREA
	BRIDGE CONSTRUCTION
	TEMPORARY VEHICLE DETECTION
	TEMPORARY TRAFFIC CONTROL BARRIER
	NARROW FULLY REDIRECTIVE
	TEMPORARY IMPACT ATTENUATOR
	TYPE III BARRICADE WITH FLASHING LIGHTS

	DESIGNED - JEP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1A	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - JEP	REVISED -			1255	13-00122-00-BR	LAKE	145	38
PLOT SCALE = 40,0000' / in. PLOT DATE = 9/21/2022	CHECKED - MFB	REVISED -	SCALE: 1" = 20'	SHEET 3 OF 4 SHEETS	STA. 641+00 TO STA. 650+50	CONTRACT NO. 61H33			
	DATE - 2021/07/30	REVISED -			ILLINOIS		FED. AID PROJECT		

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LEGEND

- DRUM WITH STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC ARROW BOARD
- STAGE 1A CONSTRUCTION AREA
- BRIDGE CONSTRUCTION
- TEMPORARY VEHICLE DETECTION
- TRAFFIC CONTROL BARRIER
- NARROW FULLY REDIRECTIVE TEMPORARY IMPACT ATTENUATOR
- TYPE III BARRICADE WITH FLASHING LIGHTS



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1A**

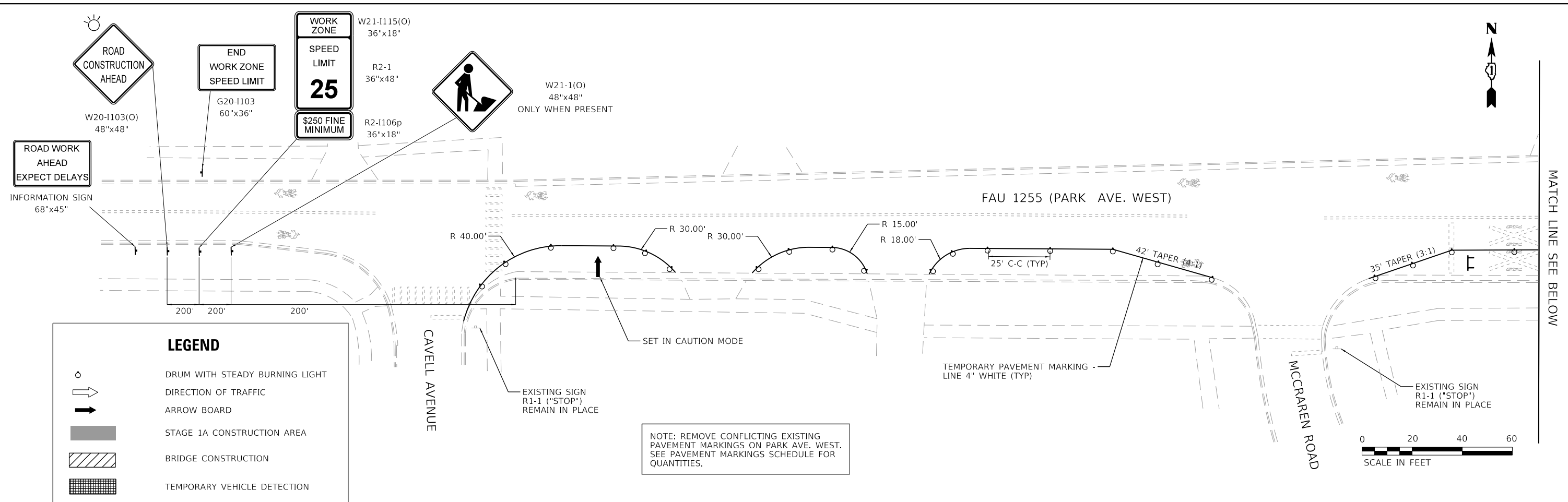
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	39
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				










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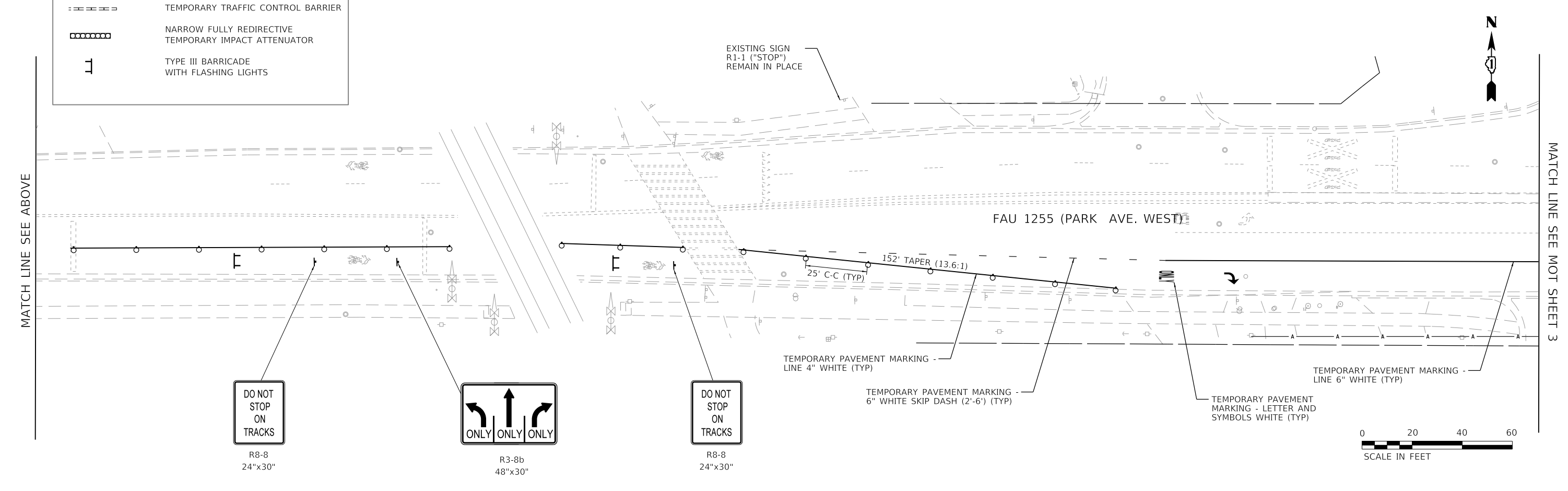


LEGEND

-  DRUM WITH STEADY BURNING LIGHT
-  DIRECTION OF TRAFFIC
-  ARROW BOARD
-  STAGE 1A CONSTRUCTION AREA
-  BRIDGE CONSTRUCTION
-  TEMPORARY VEHICLE DETECTION
-  TEMPORARY TRAFFIC CONTROL BARRIER
-  NARROW FULLY REDIRECTIVE TEMPORARY IMPACT ATTENUATOR
-  TYPE III BARRICADE WITH FLASHING LIGHTS

MATCH LINE SEE ABOVE

MATCH LINE SEE NOT SHEET 3



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

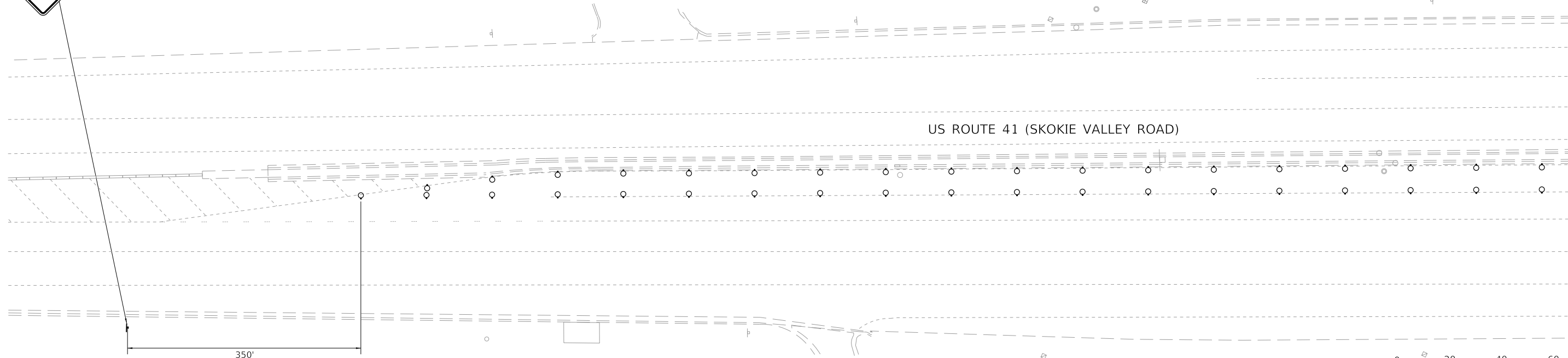
**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1B**

SCALE: 1" = 20' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	40
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



W20-1103(O)
48"x48"












US ROUTE 41 (SKOKIE VALLEY ROAD)

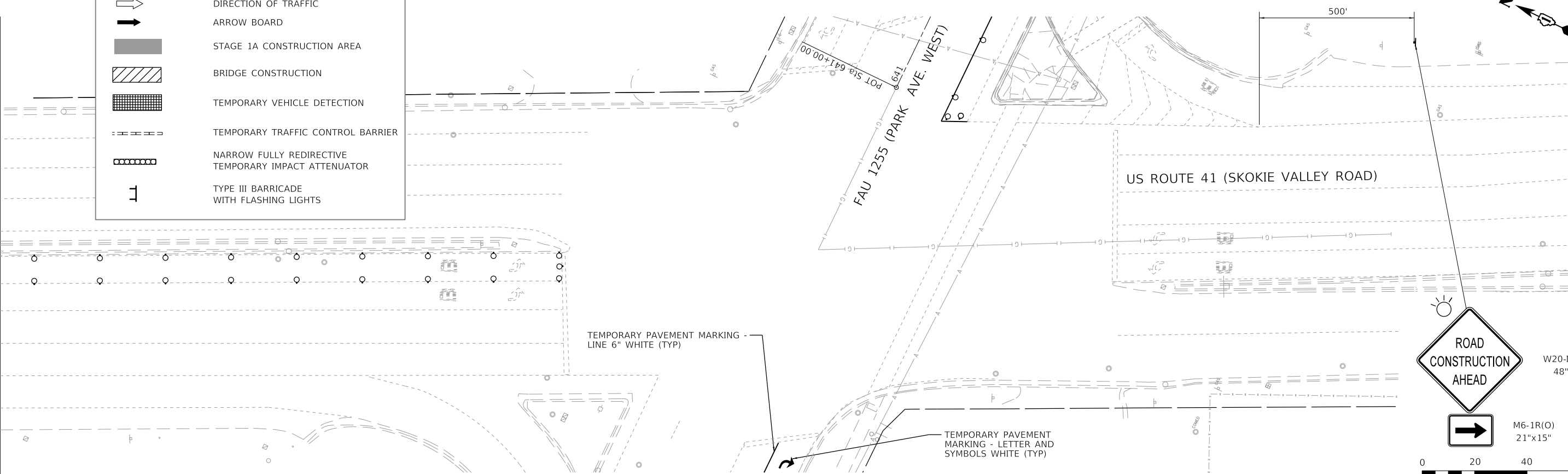
MATCH LINE (SEE BELOW)



LEGEND

-  DRUM WITH STEADY BURNING LIGHT
-  DIRECTION OF TRAFFIC
-  ARROW BOARD
-  STAGE 1A CONSTRUCTION AREA
-  BRIDGE CONSTRUCTION
-  TEMPORARY VEHICLE DETECTION
-  TEMPORARY TRAFFIC CONTROL BARRIER
-  NARROW FULLY REDIRECTIVE TEMPORARY IMPACT ATTENUATOR
-  TYPE III BARRICADE WITH FLASHING LIGHTS

MATCH LINE (SEE ABOVE)



FAU 1255 (PARK AVE. WEST)

US ROUTE 41 (SKOKIE VALLEY ROAD)



W20-1103(O)
48"x48"



M6-1R(O)
21"x15"



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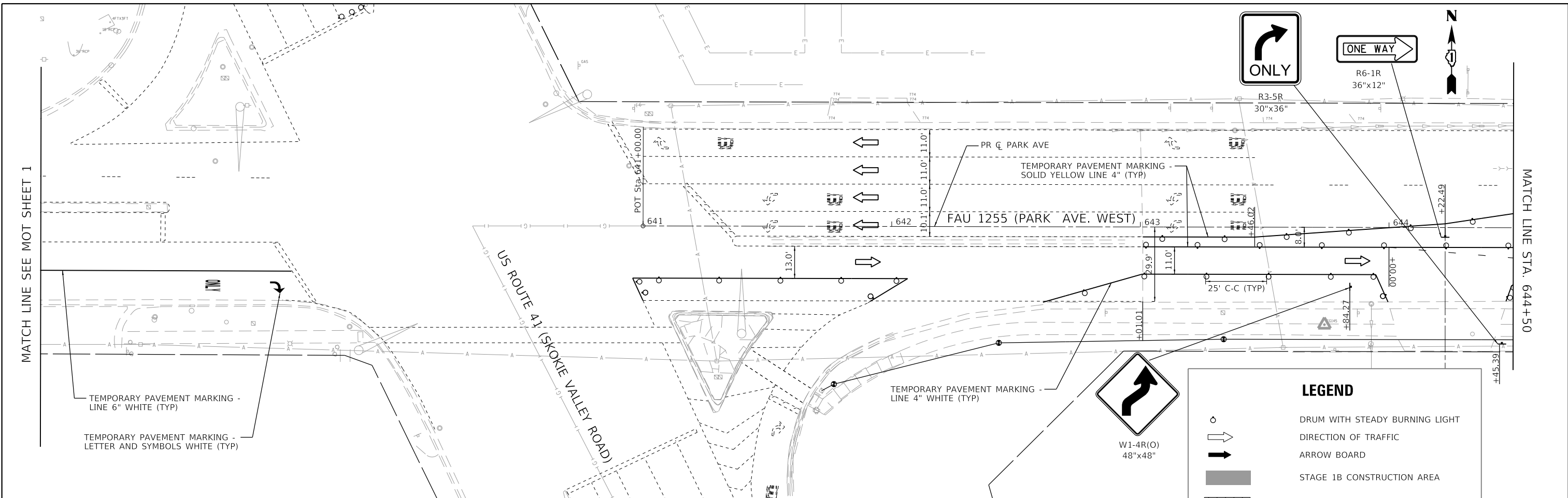
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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1B**

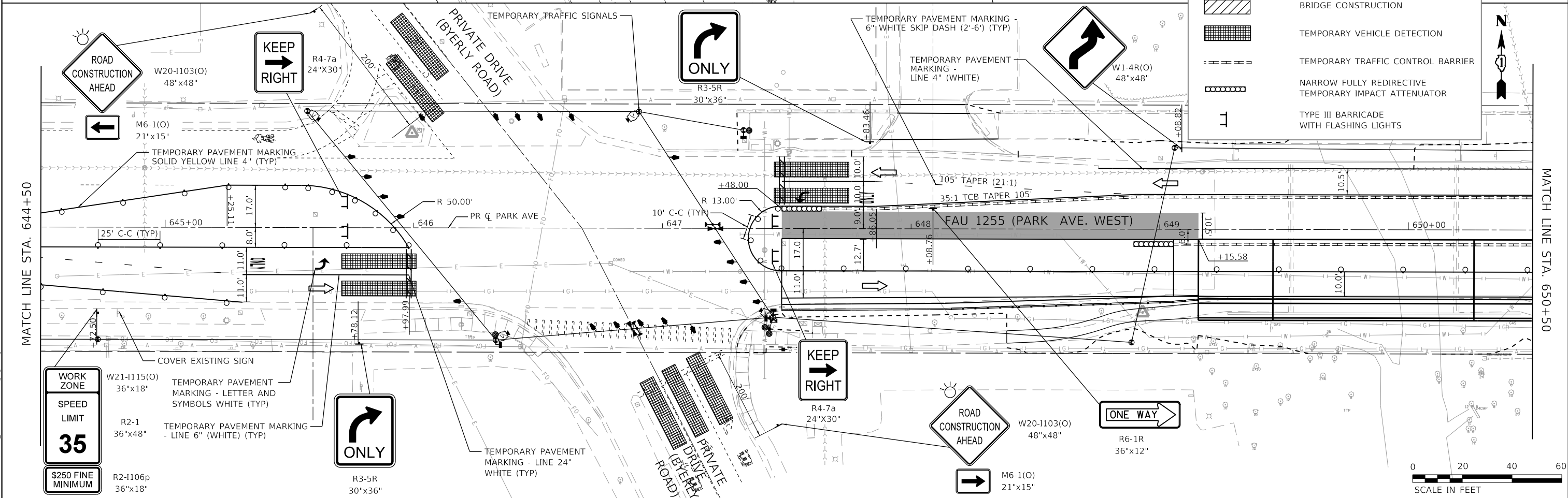
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	41
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



LEGEND

- DRUM WITH STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- STAGE 1B CONSTRUCTION AREA
- BRIDGE CONSTRUCTION
- TEMPORARY VEHICLE DETECTION
- TEMPORARY TRAFFIC CONTROL BARRIER
- NARROW FULLY REDIRECTIVE
- TEMPORARY IMPACT ATTENUATOR
- TYPE III BARRICADE WITH FLASHING LIGHTS



WORK ZONE
W21-115(O)
36"x18"

SPEED LIMIT
R2-1
36"x48"
35

\$250 FINE MINIMUM
R2-1106p
36"x18"

ONLY
R3-5R
30"x36"

KEEP RIGHT
R4-7a
24"x30"

ROAD CONSTRUCTION AHEAD
M6-1(O)
21"x15"

ONE WAY
R6-1R
36"x12"



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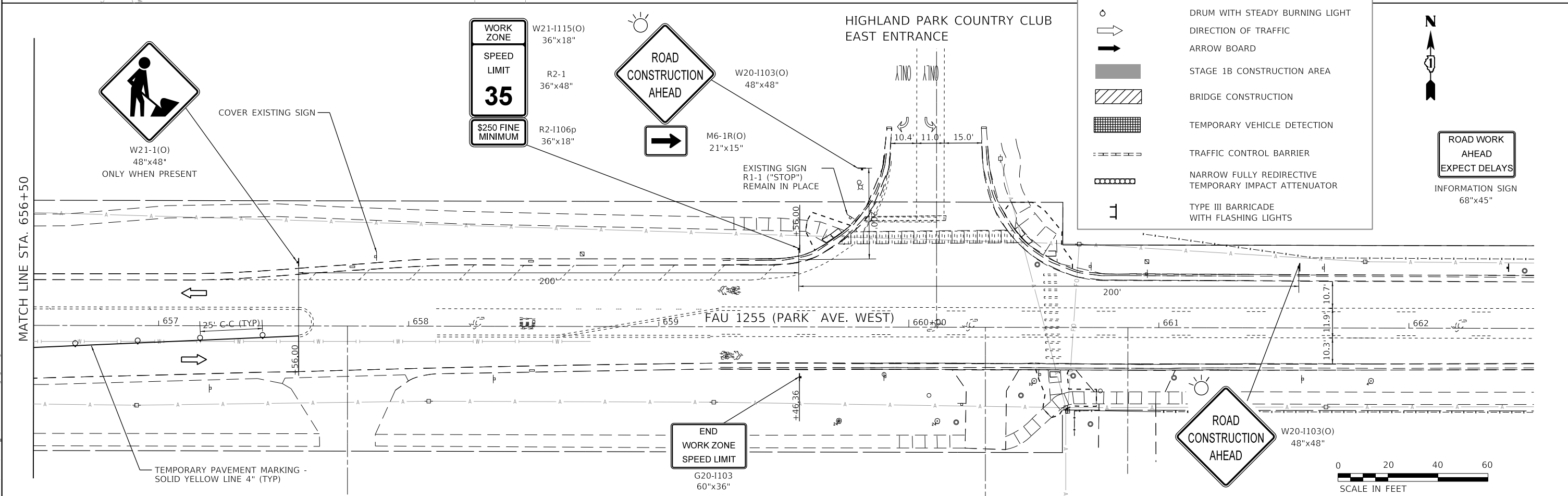
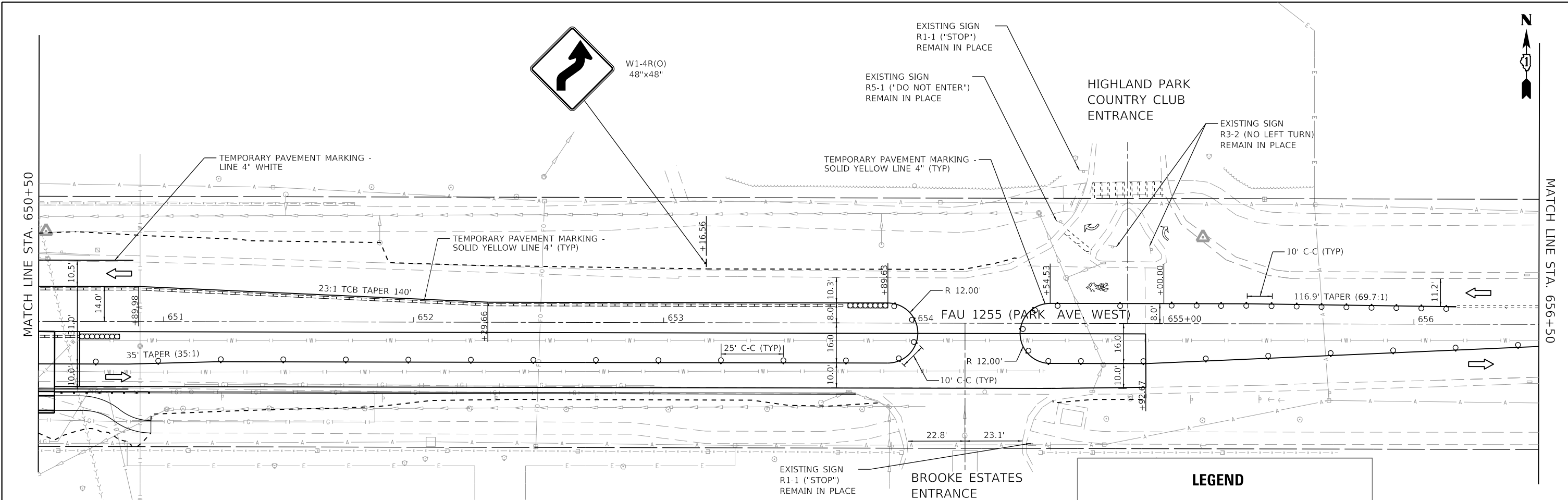
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 1B**

SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. 641+00 TO STA. 650+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	42
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

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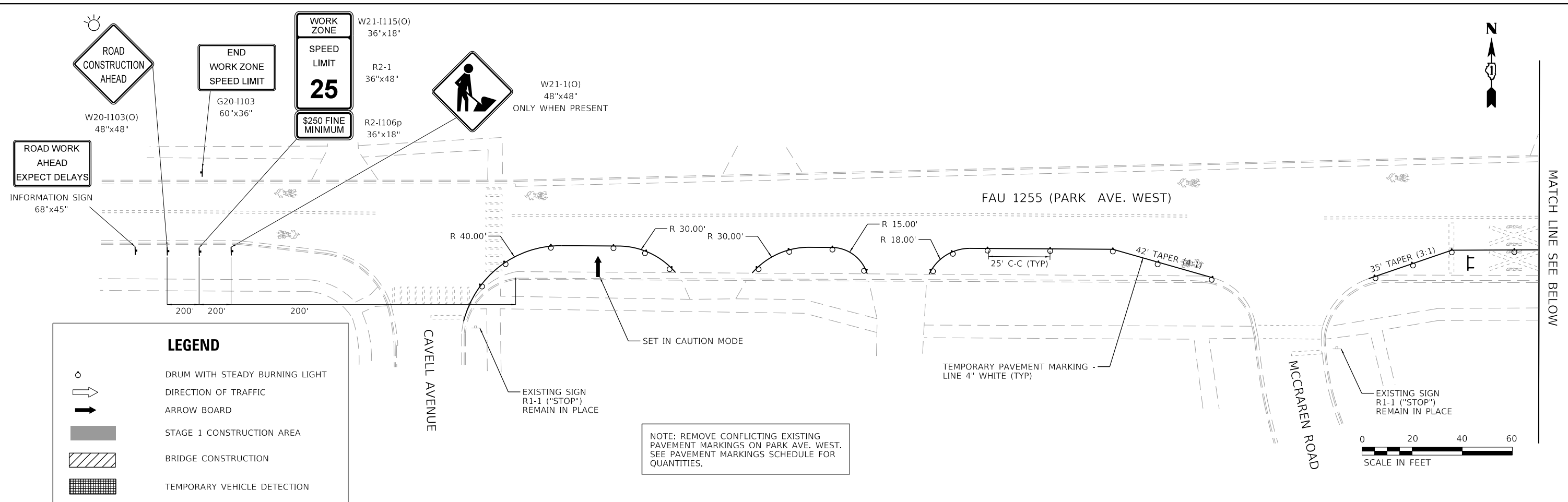


LEGEND

- DRUM WITH STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- STAGE 1B CONSTRUCTION AREA
- BRIDGE CONSTRUCTION
- TEMPORARY VEHICLE DETECTION
- TRAFFIC CONTROL BARRIER
- NARROW FULLY REDIRECTIVE TEMPORARY IMPACT ATTENUATOR
- TYPE III BARRICADE WITH FLASHING LIGHTS



MATCH LINE SEE BELOW



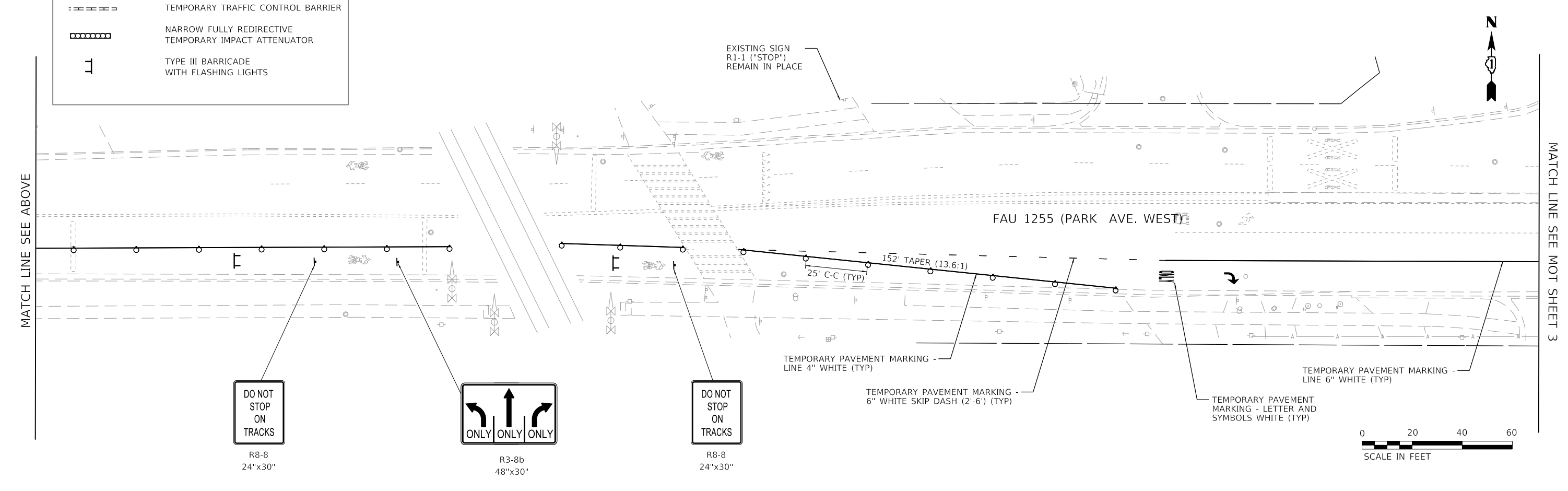
LEGEND

	DRUM WITH STEADY BURNING LIGHT
	DIRECTION OF TRAFFIC
	ARROW BOARD
	STAGE 1 CONSTRUCTION AREA
	BRIDGE CONSTRUCTION
	TEMPORARY VEHICLE DETECTION
	TEMPORARY TRAFFIC CONTROL BARRIER
	NARROW FULLY REDIRECTIVE
	TEMPORARY IMPACT ATTENUATOR
	TYPE III BARRICADE WITH FLASHING LIGHTS

NOTE: REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS ON PARK AVE. WEST. SEE PAVEMENT MARKINGS SCHEDULE FOR QUANTITIES.



MATCH LINE SEE NOT SHEET 3



MODEL: Default
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USER NAME = PWICSS	DESIGNED - JEP	REVISED -
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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

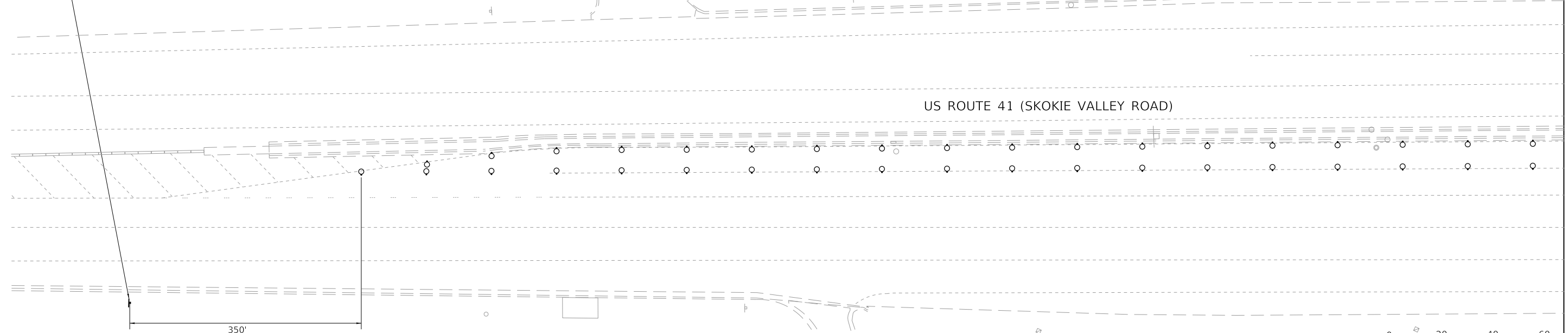
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2
 SCALE: 1" = 20' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	44
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



W20-1103(O)
48"x48"

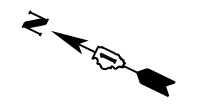
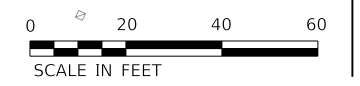


US ROUTE 41 (SKOKIE VALLEY ROAD)

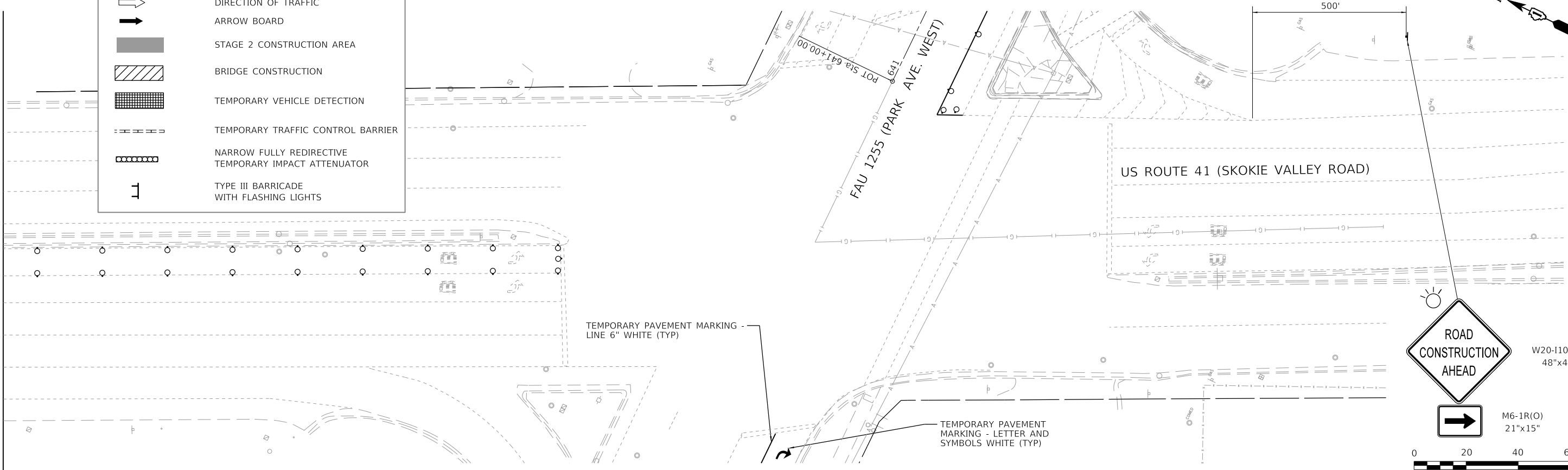
MATCH LINE (SEE BELOW)

LEGEND

- DRUM WITH STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- STAGE 2 CONSTRUCTION AREA
- BRIDGE CONSTRUCTION
- TEMPORARY VEHICLE DETECTION
- TEMPORARY TRAFFIC CONTROL BARRIER
- NARROW FULLY REDIRECTIVE TEMPORARY IMPACT ATTENUATOR
- TYPE III BARRICADE WITH FLASHING LIGHTS



MATCH LINE (SEE ABOVE)



FAU 1255 (PARK AVE. WEST)

US ROUTE 41 (SKOKIE VALLEY ROAD)

TEMPORARY PAVEMENT MARKING - LINE 6" WHITE (TYP)

TEMPORARY PAVEMENT MARKING - LETTER AND SYMBOLS WHITE (TYP)



W20-1103(O)
48"x48"



M6-1R(O)
21"x15"



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DATE: 9/20/2022



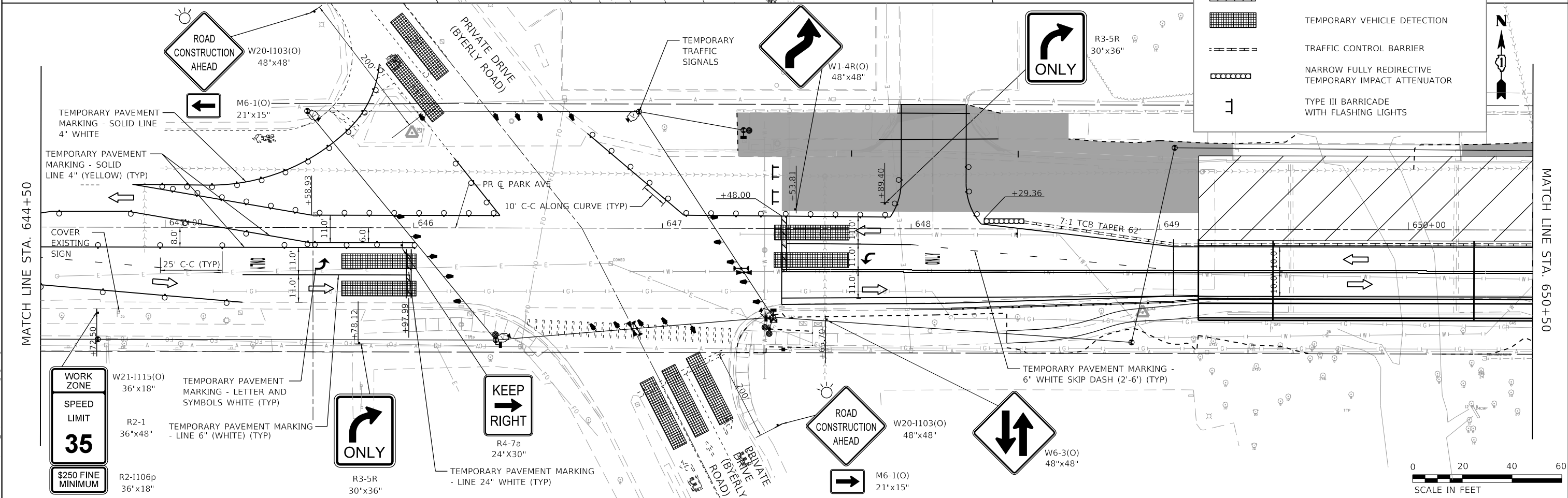
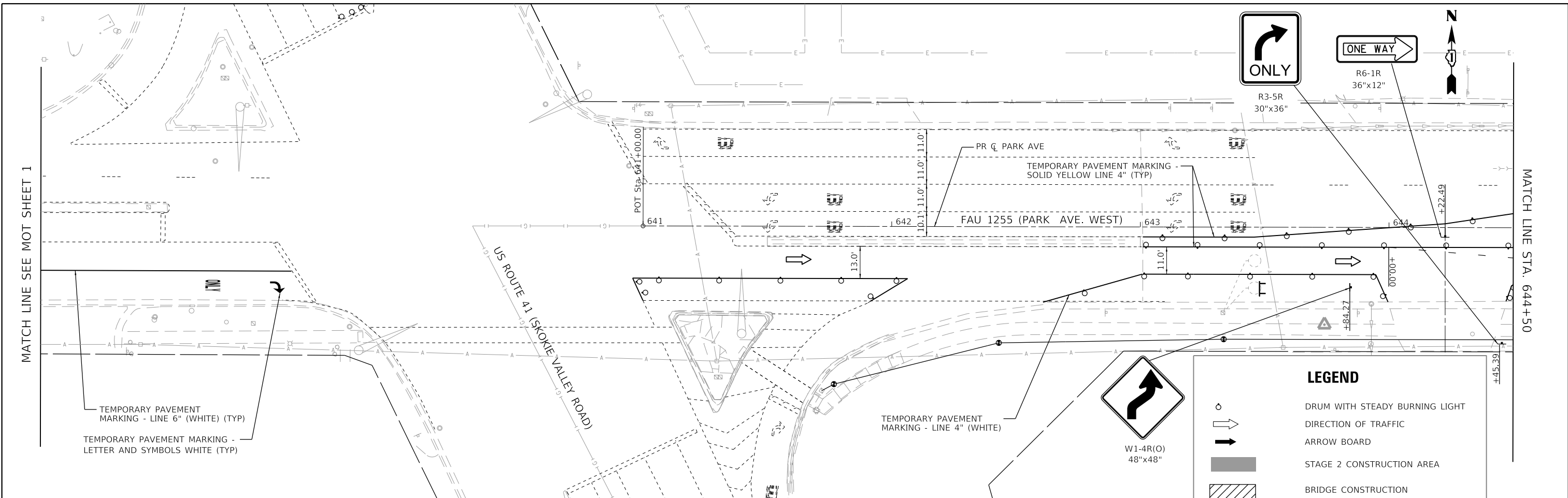
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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2**

SCALE: 1" = 20' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	45
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



USER NAME = PWICSS	DESIGNED - JEP	REVISED -
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PLOT DATE = 9/21/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

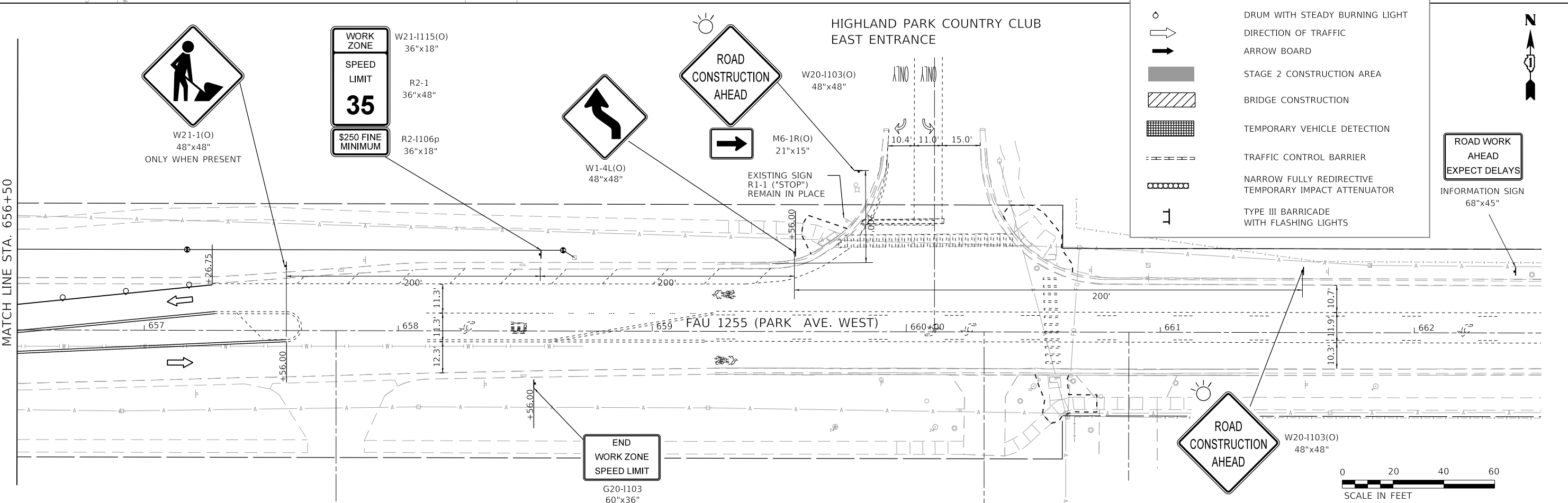
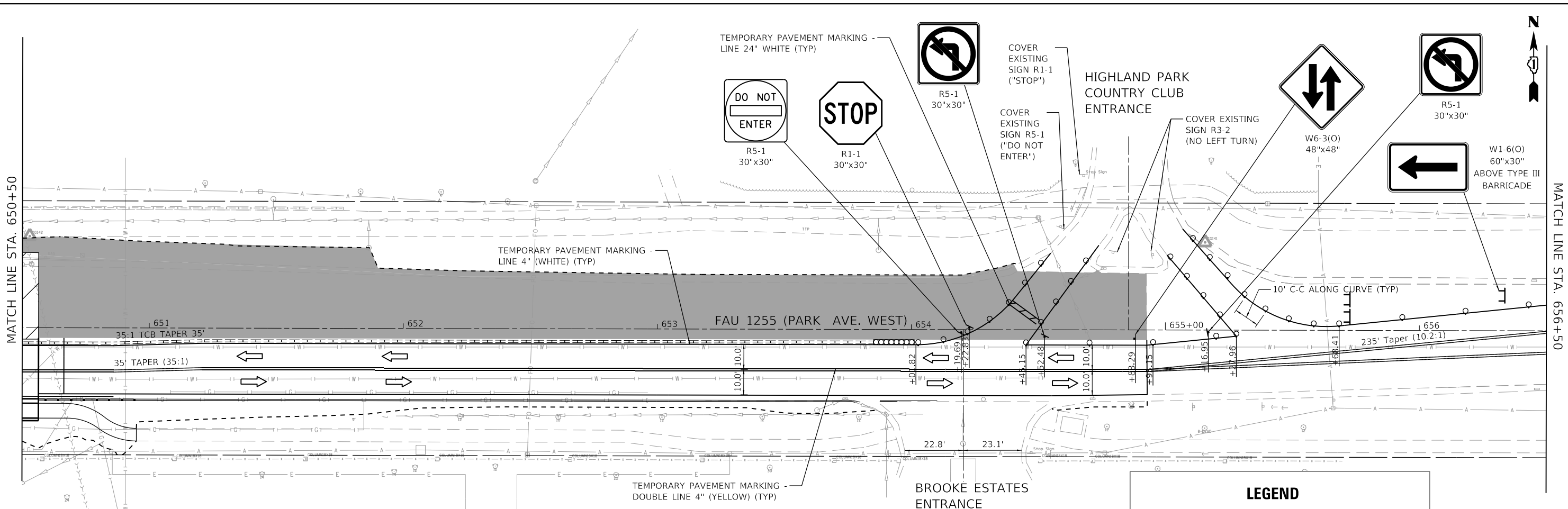
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2**

SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. 641+00 TO STA. 650+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	46
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

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LEGEND

- DRUM WITH STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC
- ARROW BOARD
- STAGE 2 CONSTRUCTION AREA
- BRIDGE CONSTRUCTION
- TEMPORARY VEHICLE DETECTION
- TRAFFIC CONTROL BARRIER
- NARROW FULLY REDIRECTIVE TEMPORARY IMPACT ATTENUATOR
- TYPE III BARRICADE WITH FLASHING LIGHTS

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 MODEL: D:\msh\...



USER NAME = PWICSS	DESIGNED - JEP	REVISED -
	DRAWN - JEP	REVISED -
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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SUGGESTED MAINTENANCE OF TRAFFIC PLAN - STAGE 2

SCALE: 1" = 20' SHEET 4 OF 4 SHEETS STA. 650+50 TO STA. 662+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	47
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

EROSION AND SEDIMENT CONTROL GENERAL NOTES

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

EROSION AND SEDIMENT CONTROL STRATEGY

- DISTURBED AREA: 0.21 ACRES
RECEIVING WATERS: SKOKIE RIVER
- A. INSTALL PERIMETER EROSION BARRIER , INLET FILTERS, AND INLET AND PIPE PROTECTION
 - B. PERIMETER EROSION BARRIER, SPECIAL
 - C. INSTALL TEMPORARY FENCE (SPECIAL)
 - D. INSTALL COFFERDAM
 - E. INSTALL STONE RIP RAP, TOP SOIL, SALT TOLERANT SODDING, AND FERTILIZER NUTRIENTS
 - F. REMOVE TEMPORARY FENCE, PERIMETER EROSION BARRIER, AND INLET AND PIPE PROTECTION

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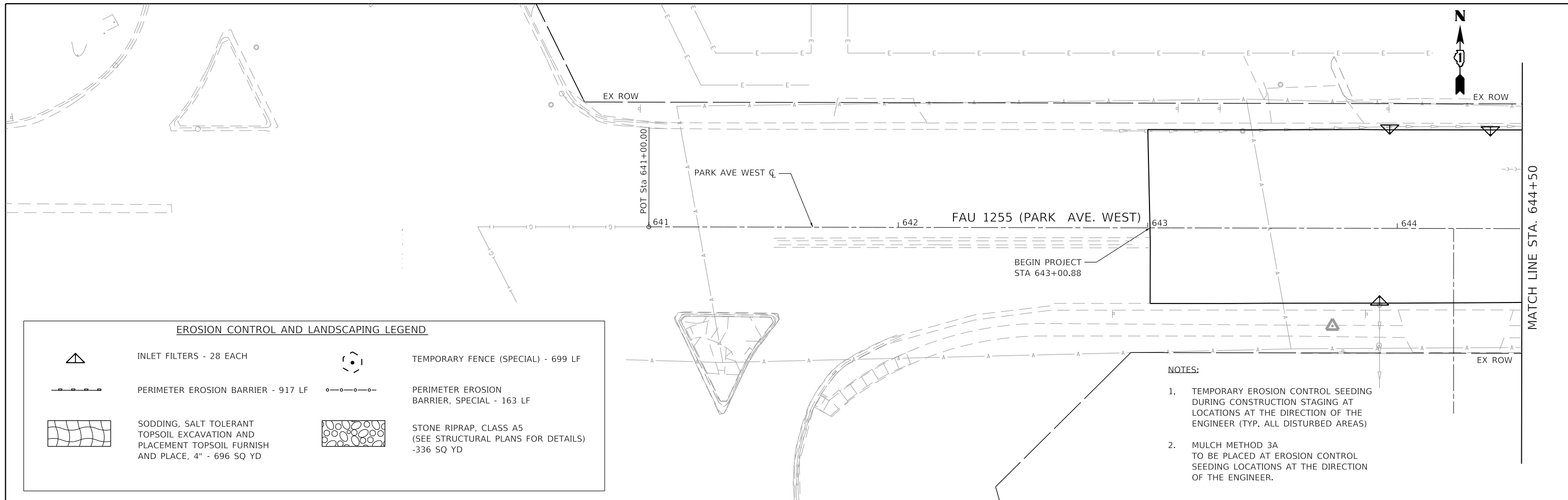
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
EROSION CONTROL AND LANDSCAPING GENERAL NOTES**

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

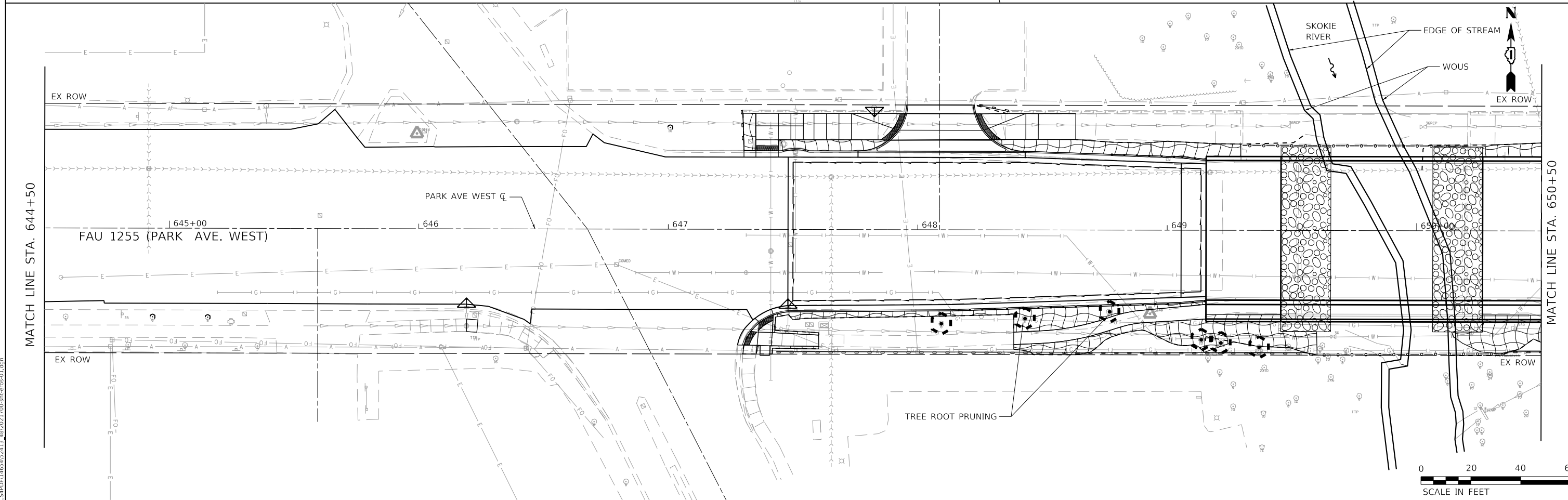
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	48
CONTRACT NO. 61H33				
		ILLINOIS	FED. AID PROJECT	



EROSION CONTROL AND LANDSCAPING LEGEND

	INLET FILTERS - 28 EACH		TEMPORARY FENCE (SPECIAL) - 699 LF
	PERIMETER EROSION BARRIER - 917 LF		PERIMETER EROSION BARRIER, SPECIAL - 163 LF
	SODDING, SALT TOLERANT TOPSOIL EXCAVATION AND PLACEMENT TOPSOIL FURNISH AND PLACE, 4" - 696 SQ YD		STONE RIPRAP, CLASS A5 (SEE STRUCTURAL PLANS FOR DETAILS) - 336 SQ YD

- NOTES:**
1. TEMPORARY EROSION CONTROL SEEDING DURING CONSTRUCTION STAGING AT LOCATIONS AT THE DIRECTION OF THE ENGINEER (TYP. ALL DISTURBED AREAS)
 2. MULCH METHOD 3A TO BE PLACED AT EROSION CONTROL SEEDING LOCATIONS AT THE DIRECTION OF THE ENGINEER.



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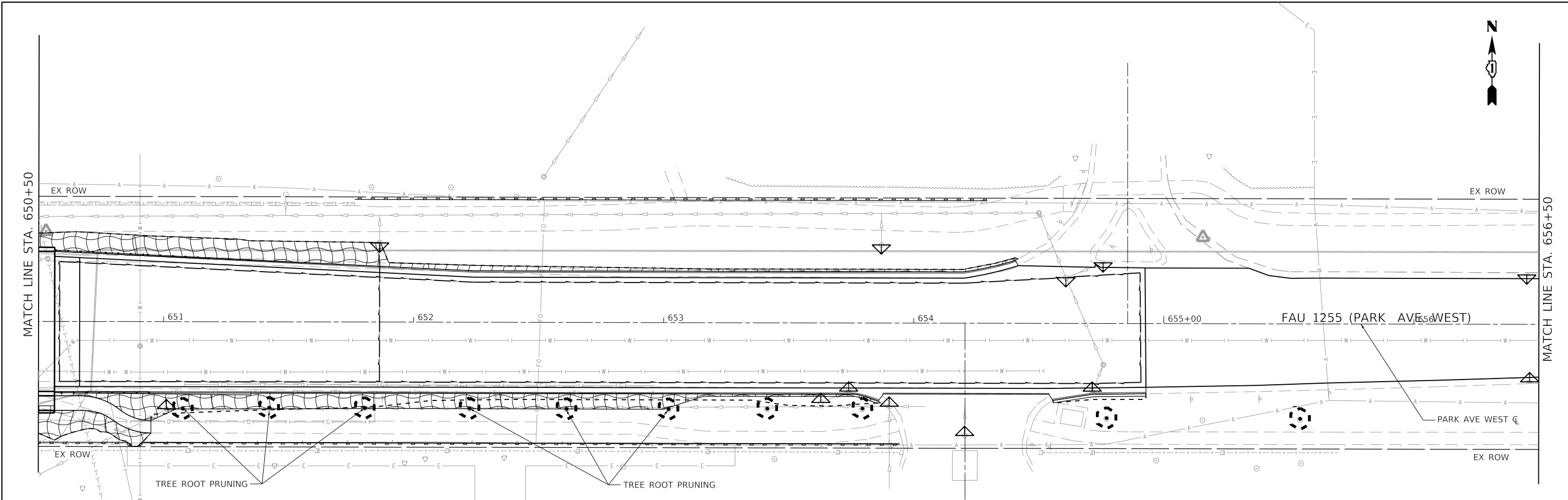
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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
EROSION CONTROL AND LANDSCAPING PLANS**

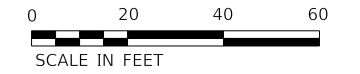
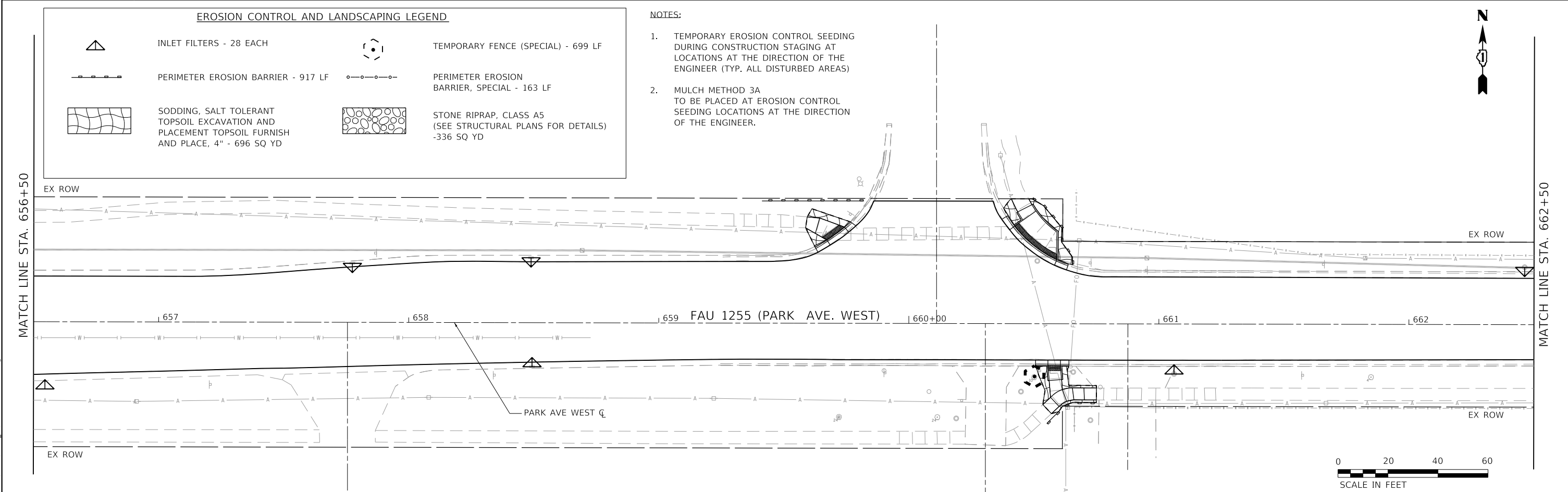
SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 641+00.00 TO STA. 650+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	49
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



EROSION CONTROL AND LANDSCAPING LEGEND			
	INLET FILTERS - 28 EACH		TEMPORARY FENCE (SPECIAL) - 699 LF
	PERIMETER EROSION BARRIER - 917 LF		PERIMETER EROSION BARRIER, SPECIAL - 163 LF
	SODDING, SALT TOLERANT TOPSOIL EXCAVATION AND PLACEMENT TOPSOIL FURNISH AND PLACE, 4" - 696 SQ YD		STONE RIPRAP, CLASS A5 (SEE STRUCTURAL PLANS FOR DETAILS) - 336 SQ YD

- NOTES:**
- TEMPORARY EROSION CONTROL SEEDING DURING CONSTRUCTION STAGING AT LOCATIONS AT THE DIRECTION OF THE ENGINEER (TYP. ALL DISTURBED AREAS)
 - MULCH METHOD 3A TO BE PLACED AT EROSION CONTROL SEEDING LOCATIONS AT THE DIRECTION OF THE ENGINEER.



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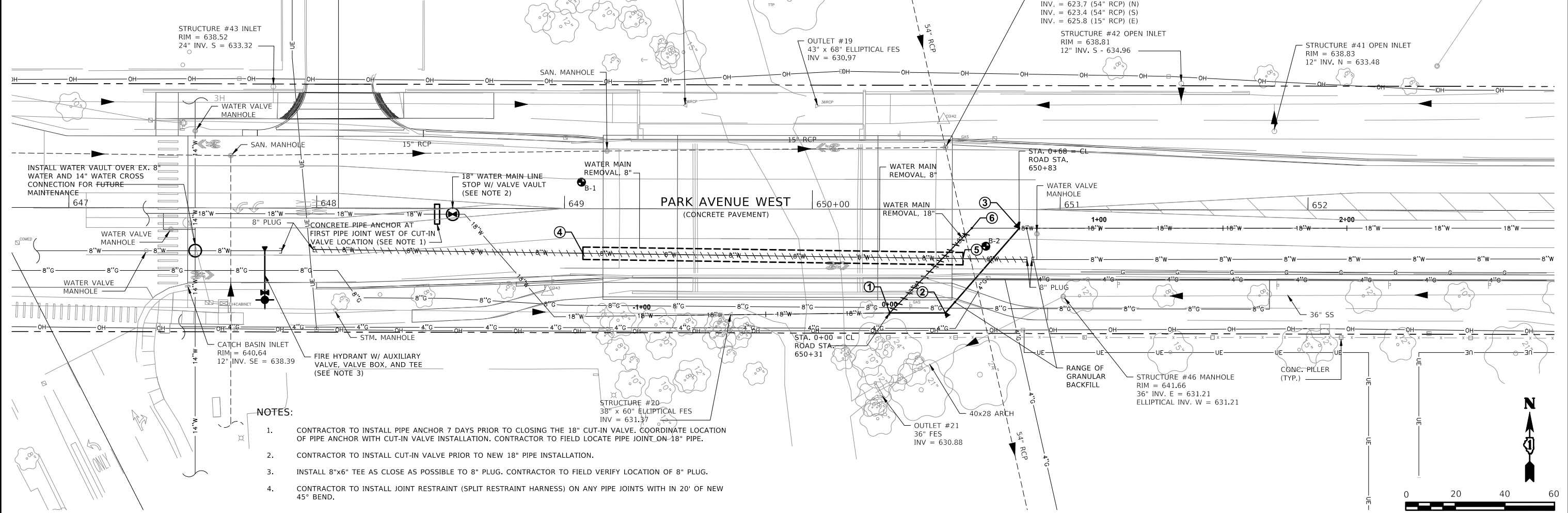
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

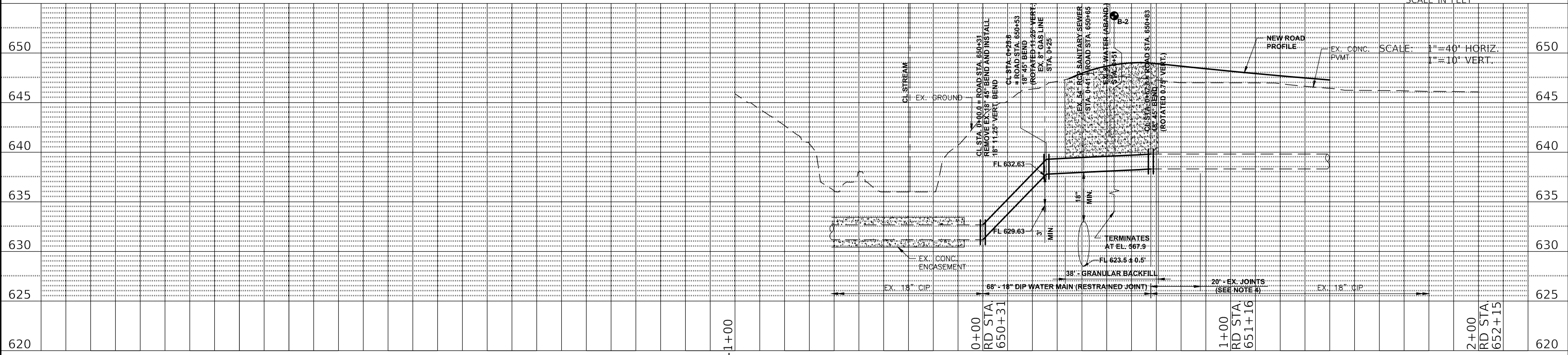
FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER			
EROSION CONTROL AND LANDSCAPING PLANS			
SCALE: 1"=20'	SHEET 2	OF 3 SHEETS	STA. 650+50.00 TO STA. 652+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	50
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

COORDINATE TABLE			
NUMBER	NORTH	EAST	DESCRIPTION
1	2011802.19	1122862.96	18" 11.25° VERT. BEND
2	2011802.19	1122885.43	18" 45° BEND
3	2011836.35	1122915.22	18" 45° BEND
4	2011826.26	1122739.16	LIMIT OF EX. 8" WATER MAIN REMOVAL
5	2011824.08	1122892.50	LIMIT OF EX. 8" WATER MAIN REMOVAL
6	2011836.35	1122896.08	LIMIT OF EX. 18" WATER MAIN REMOVAL



- NOTES:**
- CONTRACTOR TO INSTALL PIPE ANCHOR 7 DAYS PRIOR TO CLOSING THE 18" CUT-IN VALVE. COORDINATE LOCATION OF PIPE ANCHOR WITH CUT-IN VALVE INSTALLATION. CONTRACTOR TO FIELD LOCATE PIPE JOINT ON 18" PIPE.
 - CONTRACTOR TO INSTALL CUT-IN VALVE PRIOR TO NEW 18" PIPE INSTALLATION.
 - INSTALL 8"x6" TEE AS CLOSE AS POSSIBLE TO 8" PLUG. CONTRACTOR TO FIELD VERIFY LOCATION OF 8" PLUG.
 - CONTRACTOR TO INSTALL JOINT RESTRAINT (SPLIT RESTRAINT HARNESS) ON ANY PIPE JOINTS WITH IN 20' OF NEW 45° BEND.



USER NAME = MLMILLS	DESIGNED - LEF	REVISED -
PLOT SCALE = 20.00'	DRAWN - MLM	REVISED -
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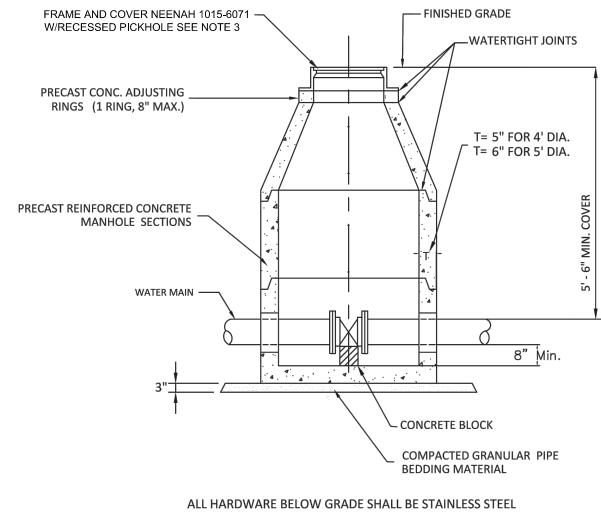
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE WEST) OVER SKOKIE RIVER
WATER MAIN PLAN & PROFILE**

SCALE AS NOTED SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

- NOTES:
1. CONCENTRIC CONE REQUIRED
 2. USE: 4'-0" DIAMETER FOR WATER VALVE SIZES 8" AND SMALLER, 5'-0" DIAMETER OR LARGER FOR SIZES LARGER THAN 8"
 3. FOR CLOSED LIDS USE ITEM: HIGHLAND PARK FRAME LID (SPECIAL)

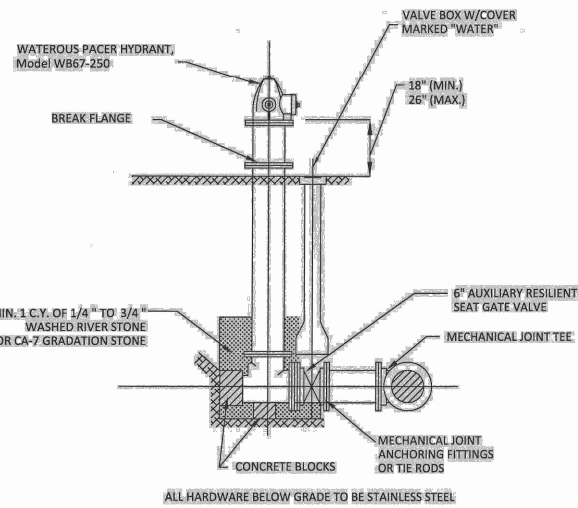


**WATER VALVE VAULT
DETAIL**

City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

H.P. DWG. No. WD-1002
Drawn By: M.B.
Revised By: JP3

DATE: 26th March 2019
Approved By: [Signature]



**FIRE HYDRANT
INSTALLATION
DETAIL**

City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

H.P. DWG. No. WD-1006
Drawn By: M.B.
Revised By: E.J.

DATE: 28th Feb, 2014
Approved By: J.M.W.

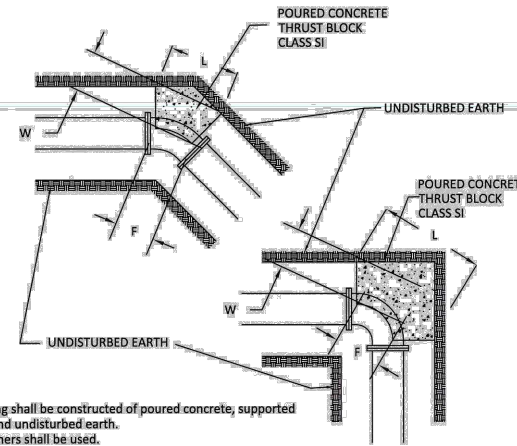
THRUST BLOCK SCHEDULE:

All Thrust Blocking Incidental to Water Main Construction.

Thrust Blocking for all fittings under 10 inches shall have a minimum dimension of 1'x1' at the point of contact with undisturbed earth.

Plugged Ends shall be thrust blocked the same as Tee.

Tabulated Thrust blocking is figured on Allowable Bearing Pressure of Soil at 4,000 PSF. If Allowable Bearing Pressure of Soil is 2,000 PSF, the tabulated bearing area of contact to the undisturbed earth shall be doubled.



- Notes:
1. All Thrust Blocking shall be constructed of poured concrete, supported with wood forms and undisturbed earth.
 2. MEGA-LUG retainers shall be used.
 3. All nuts, bolts and washers shall be **STAINLESS STEEL**.

**THRUST BLOCK
DETAIL**

City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

H.P. DWG. No. WD-1008 SHEET 1 OF 2
Drawn By: M.B.
Revised By: E.J.

DATE: 27th Sept, 2013
Approved By: J.M.W.

FITTINGS	DIMENSIONS (FT)			
	H	L	W	F
TEE-16" X 16" X 16"	2.5'	3.0'	2.0'	2.0'
18" - 90°	3.0'	3.5'	2.0'	2.0'
18" - 45°	3.0'	2.0'	2.0'	2.0'
18" - 22.5°	3.0'	2.0'	1.5'	1.0'
TEE-14" X 14" X 10"	2.0'	2.5'	1.5'	2.0'
14" - 90°	2.5'	3.0'	1.5'	2.0'
14" - 45°	2.0'	2.5'	1.5'	1.5'
TEE-12" X 12" X 12"	2.0'	2.5'	1.5'	2.0'
TEE-12" X 12" X 8"	1.5'	2.0'	1.5'	1.5'
TEE-12" X 12" X 6"	1.0'	1.5'	1.5'	1.0'
12" - 90°	2.0'	3.0'	1.5'	2.0'
12" - 45°	1.5'	2.0'	1.5'	1.0'
12" - 22.5°	1.0'	1.5'	1.0'	1.0'
TEE-10" X 10" X 10"	1.5'	2.0'	1.5'	1.5'
10" - 90°	2.0'	3.0'	1.5'	1.5'
10" - 45°	1.5'	1.5'	1.5'	1.0'

THRUST BLOCK LEGEND:

- H THICKNESS
- L LENGTH FROM UNEXCAVATED SOIL
- W SPACE BETWEEN FITTINGS AND SOIL
- F WIDTH AT FITTINGS

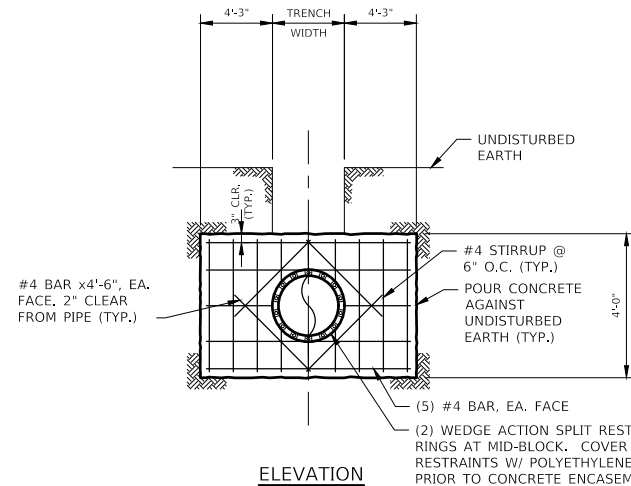
FITTINGS	DIMENSIONS (FT)			
	H	L	W	F
TEE - 18" X 18" X 18"	3.0	3.5	2.0	2.0
18" - 90° BEND	3.5	4.0	2.0	2.0
18" - 45° BEND	3.0	2.5	2.0	2.0
18" - 22.5° BEND	2.5	2.0	2.0	2.0

**THRUST BLOCK
DETAIL**

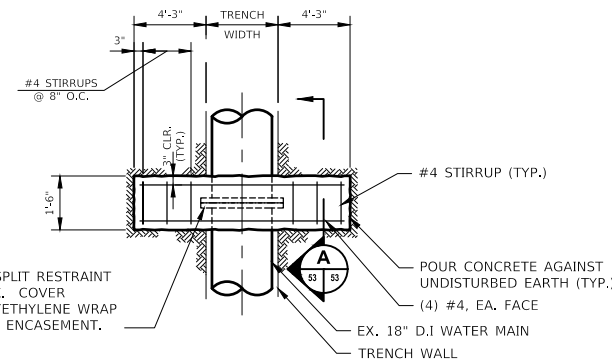
City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

H.P. DWG. No. WD-1008 SHEET 2 OF 2
Drawn By: M.B.
Revised By: E.J.

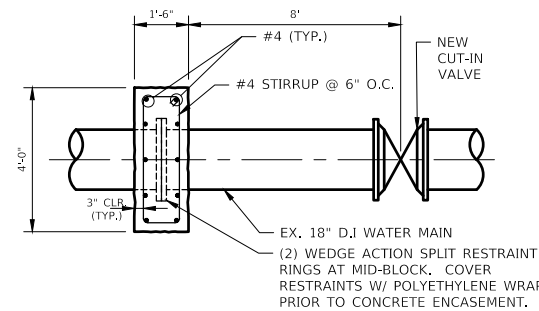
DATE: 27th Sept, 2013
Approved By: J.M.W.



ELEVATION



PLAN



A SECTION
SCALE: 3/8" = 1'-0"

NOTES:

1. CONSTRUCT PIPE ANCHOR AT A MINIMUM OF 8' FROM CUT-IN VALVE AND 3' FROM THE END OF PIPE.
2. PIPE ANCHOR SHALL BE PRE-POURED AND CURED, MINIMUM 7 DAYS, PRIOR TO OPERATION OF CUT-IN VALVE.
3. CONTRACTOR TO VERIFY PIPE MATERIAL AND O.D. AND HAVE RESTRAINT RING MACHINED TO MATCH PIPE DIAMETER.
4. CONTRACTOR TO INSTALL PIPE ANCHOR IN SAME SECTION OF PIPE AS CUT-IN VALVE. PIPE JOINT BETWEEN VALVE AND PIPE ANCHOR NOT ALLOWED.
5. REINFORCED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

18" CONCRETE PIPE ANCHOR DETAIL

SCALE: N.T.S.



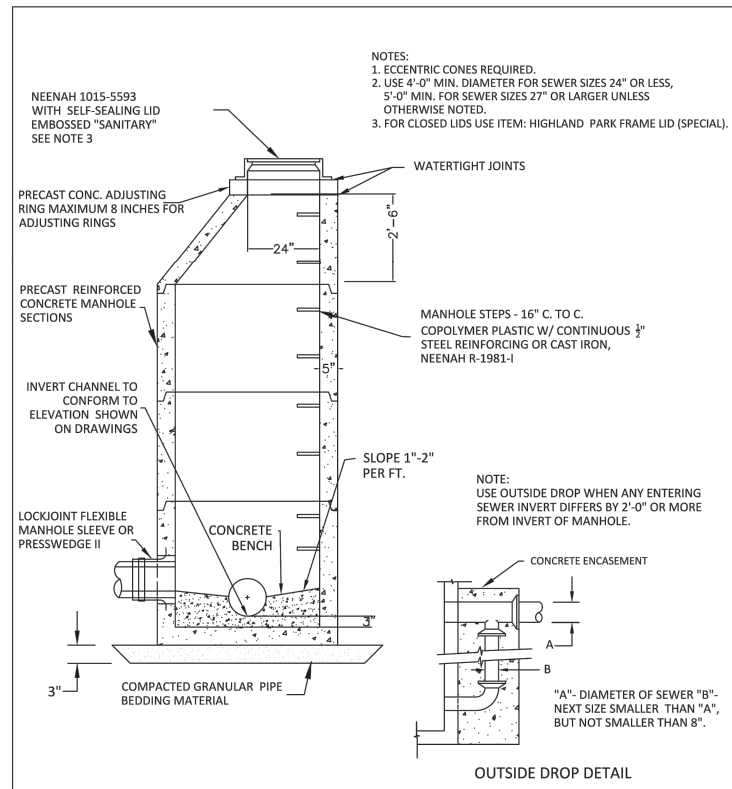
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PLOT DATE = 2022/09/06	CHECKED - LEF	REVISED -
	DATE - 2022/09/06	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE WEST) OVER SKOKIE RIVER
WATER MAIN DETAILS**

SCALE: AS NOTED SHEET 2 OF 2 SHEETS STA. --- TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	53
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

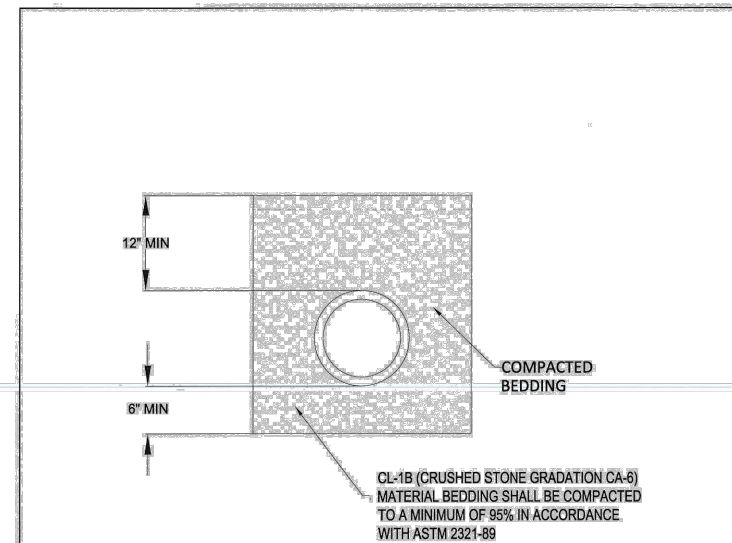


SANITARY SEWER MANHOLE DETAIL

City of Highland Park
 Department of Public Works
 1150 Half Day Rd, Highland Park, IL 60035

H.P. DWG. No. SAN-1012
 Drawn By: M.B.
 Revised By: JP3

DATE: 26th March 2019
 Approved By: [Signature]



N.S.W.R.D. SANITARY SEWER PIPE BEDDING DETAIL

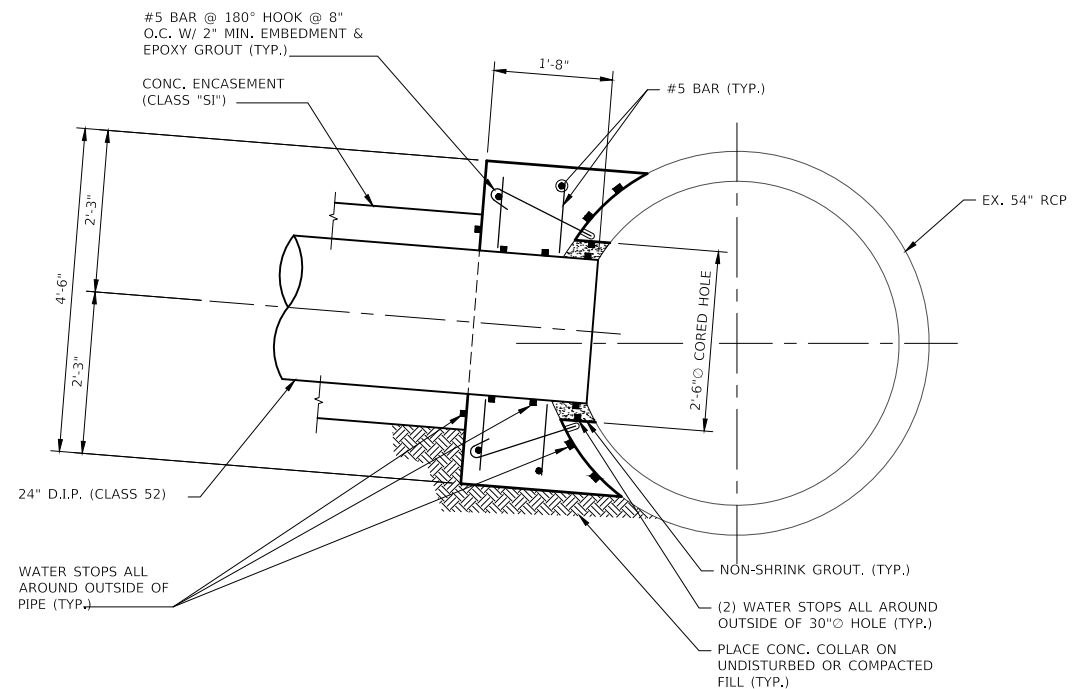
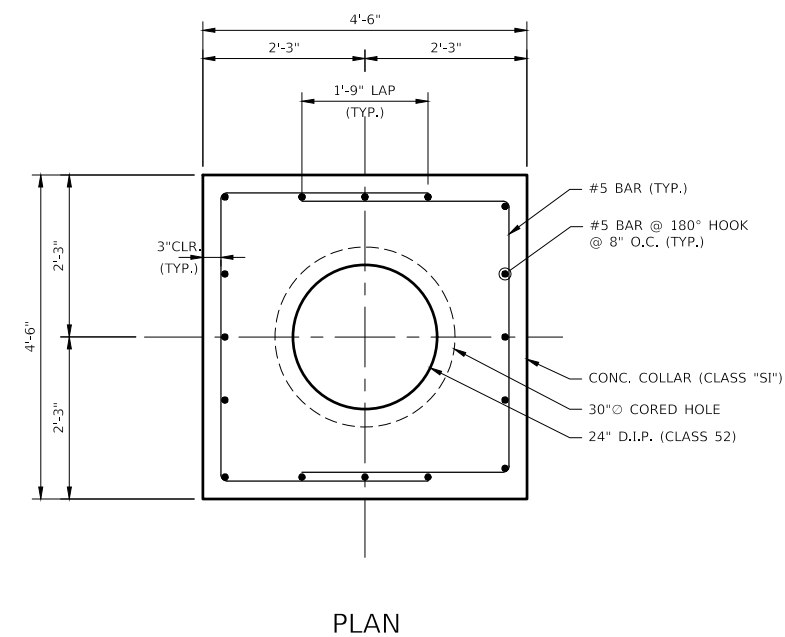


City of Highland Park
 Department of Public Works
 1150 Half Day Rd, Highland Park, IL 60035

STANDARD PIPE BEDDING (FOR SANITARY SEWER)

H.P. Engg. No. SAN-1014
 Drawn By: E.J.
 Revised By: E.J.

DATE: 27th Sept. 2013
 Approved By: [Signature]



CONCRETE COLLAR DETAIL

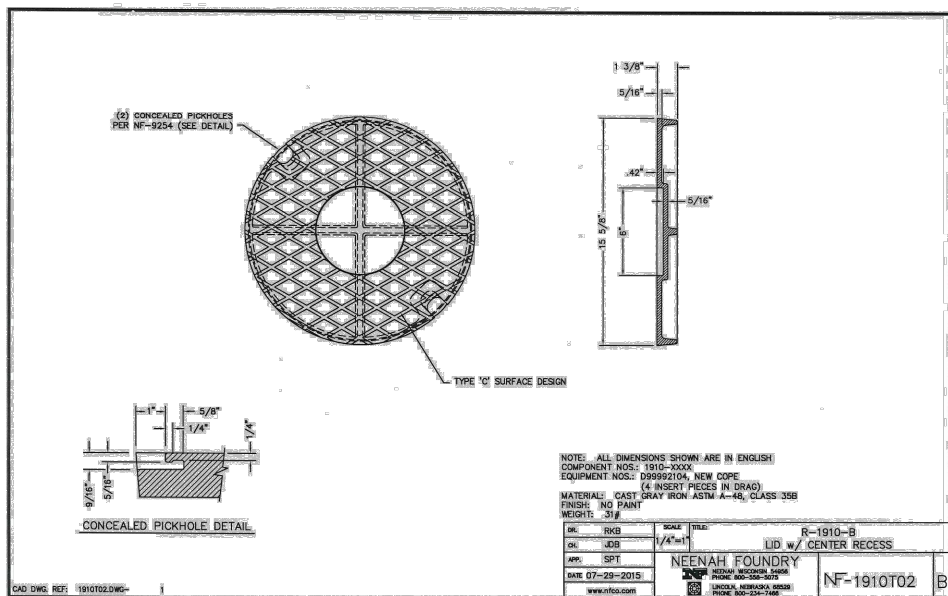
SCALE: 3/4"=1'-0"

NOTES:

1. WATERSTOP SHALL BE MADE OF ACTIVE BENTONITE/BUTYL-RUBBER CONSTRUCTION, TESTED TO OVER 60 METERS (200 FEET) OF HYDROSTATIC WATER PRESS UNDER CONTINUOUS AND WET DRY CYCLING.
2. 30" O. OPENING IN EXISTING 54" RCP SHALL BE SMOOTH CORE DRILLED. CONTRACTOR SHALL NOT USE IMPACT HAMMERS TO BREAK INTO PIPE.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
4. CONTRACTOR SHALL BYPASS PUMP DRY-WEATHER SANITARY FLOW TO COMPLETE PIPE CONNECTION.

NORTH SHORE WATER RECLAMATION DISTRICT NOTES:

1. THE CONTRACTOR SHALL NOTIFY BOTH THE NORTH SHORE WATER RECLAMATION DISTRICT AND THE MUNICIPALITY WITHIN WHOSE BOUNDARIES THE PROPOSED SANITARY SEWER CONSTRUCTION WILL TAKE PLACE A MINIMUM OF 24 HOURS PRIOR TO START OF CONSTRUCTION. THE NORTH SHORE WATER RECLAMATION DISTRICT CAN BE NOTIFIED BY PHONE AT (847) 623-6060.
2. ALL SANITARY SEWER PIPE SHALL BE BEDDED, WITH A MINIMUM OF 6" BELOW THE PIPE AND 12" ABOVE THE PIPE, IN CA-6 CRUSHED MATERIAL. CA-7 MAY BE ALLOWED AT THE DISCRETION OF THE NORTH SHORE WATER RECLAMATION DISTRICT IF EXTREMELY WET CONDITIONS ARE ENCOUNTERED.
3. THE CONNECTION TO DOWNSTREAM SEWERS SHALL BE PLUGGED WITH A WATER TIGHT CONCRETE PLUG AND MAINTAINED IN PLACE UNTIL THE CONNECTION IS APPROVED BY THE NORTH SHORE WATER RECLAMATION DISTRICT.
4. ALL SANITARY SEWER EXTENSIONS SHALL BE TELEVIEWED IN THE PRESENCE OF NORTH SHORE WATER RECLAMATION DISTRICT PERSONNEL AFTER HAVING NOTIFIED THE DISTRICT A MINIMUM OF 24 HOURS PRIOR TO TELEVIEWING BY PHONE AT (847) 623-6060. A COPY OF THE TELEVIEWED SEWER EXTENSION, IN ELECTRONIC FORMAT, SHALL BE SUBMITTED TO THE DISTRICT FOR APPROVAL.
5. ALL SANITARY SEWERS TO BE CORED WILL HAVE A NORTH SHORE WATER RECLAMATION DISTRICT INSPECTOR PRESENT DURING THE CORING OPERATIONS.
6. NO PIPE MATERIAL BROKEN OUT DURING CONSTRUCTION SHALL BE PERMITTED TO ENTER EXISTING SEWER. THE CONTRACTOR SHALL REMOVE ANY AND ALL DEBRIS THAT FALLS INTO THE EXISTING SEWER.
7. THE CONTRACTOR SHALL TV INSPECT THE EXISTING 54" INTERCEPTOR SEWER FROM STRUCTURE #1482 TO THE SOUTHERN ROW OF PARK AVENUE WEST BEFORE AND AFTER CONSTRUCTION.



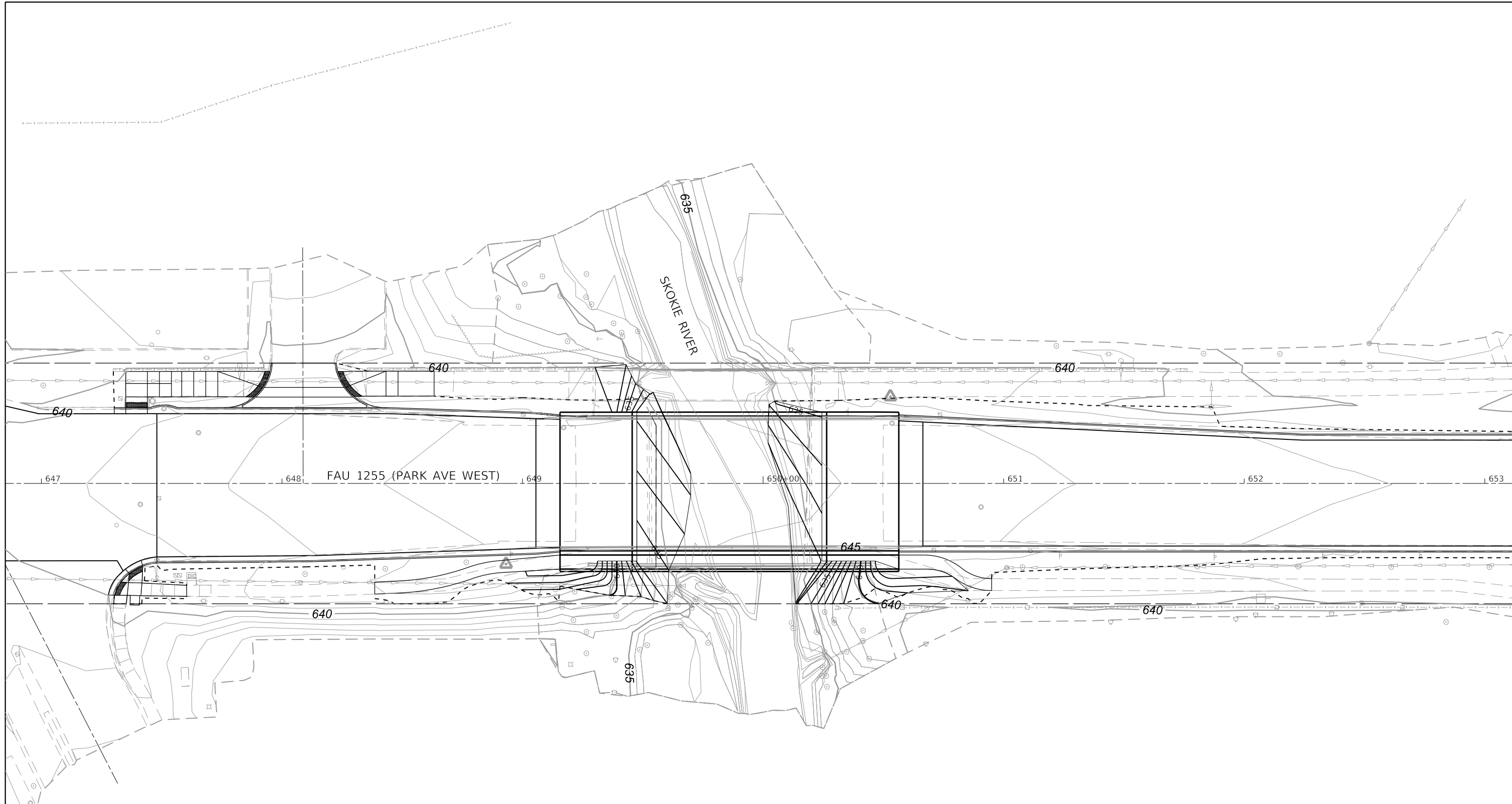
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	DATE - 2022/09/06	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE WEST) OVER SKOKIE RIVER
 SANITARY SEWER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	55
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



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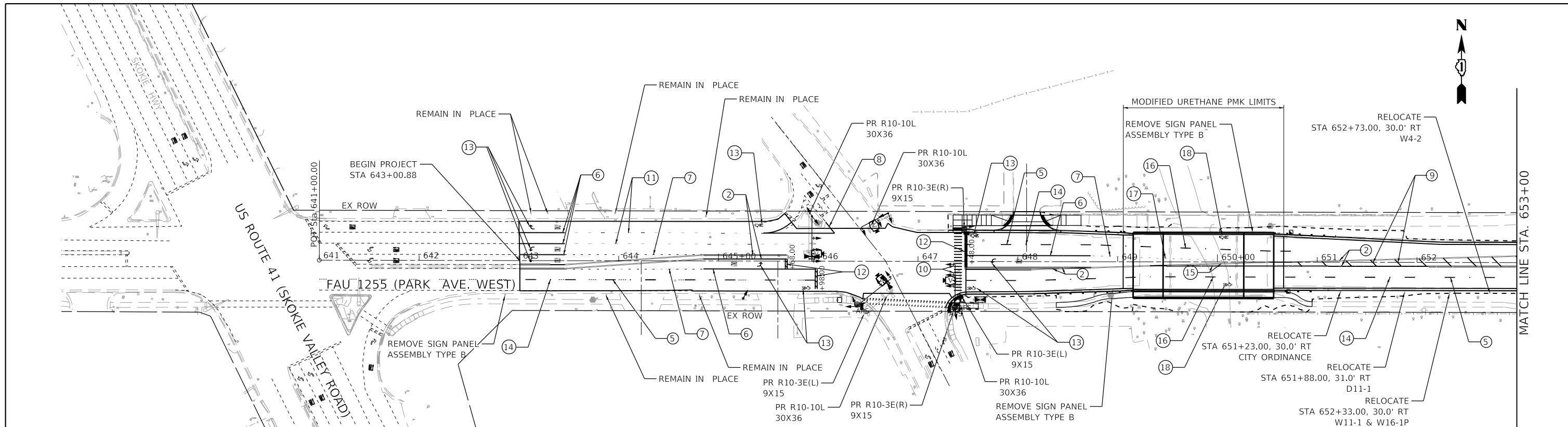
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
GRADING PLAN DETAILS

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 647+00 TO STA. 653+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	56
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

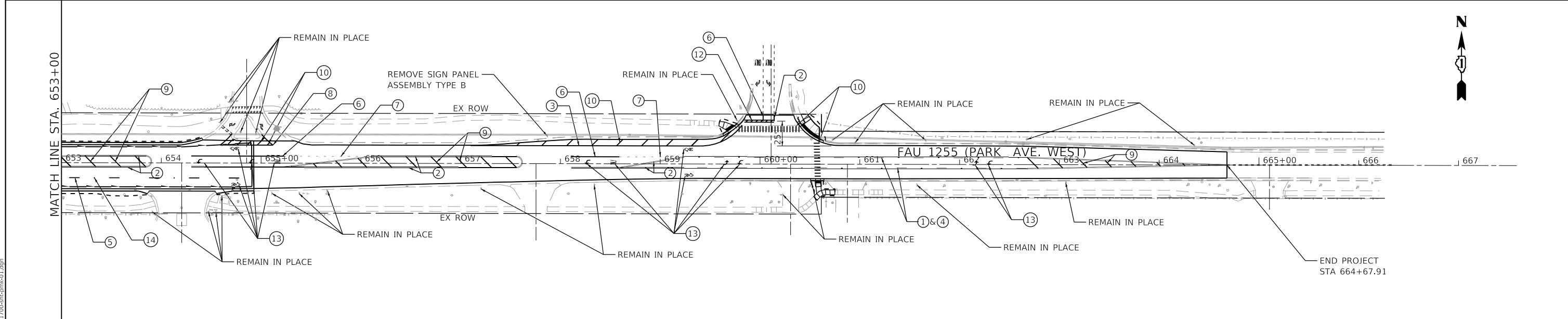


- | | | | |
|---|--|--|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID YELLOW) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID WHITE) | ⑮ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) | NOTES:
REFER TO DISTRICT STANDARD TC-11 AND IDOT STANDARD 781001 FOR RAISED REFLECTIVE PAVEMENT MARKER DETAILS.

RAISED REFLECTIVE PAVEMENT MARKERS ADJACENT TO WHITE SKIP DASH AND CENTERLINES SHALL BE OFFSET 4 INCHES TOWARD TRAFFIC.

SIGN LOCATIONS AND ORIENTATIONS WILL BE DETERMINED BY THE ENGINEER.

REFER TO DISTRICT STANDARD TC-13 FOR PAVEMENT MARKING DETAILS. |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID YELLOW) | ⑯ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SKIP DASH, 10' LINE 30' SPACE) | |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (SOLID WHITE) | ⑰ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE SKIP DASH, 2' LINE 6' SPACE) | |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SKIP DASH, 10' LINE 30' SPACE) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SKIP DASH, 3' LINE, 9' SPACE) | ⑱ MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (SOLID WHITE) | |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SKIP DASH, 10' LINE 30' SPACE) | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE) | | |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE) | ⑬ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (SOLID WHITE) | | |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP DASH, 2' LINE 6' SPACE) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER | | |



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	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER PAVEMENT MARKING AND SIGNING PLAN			
SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	57
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

REMOVAL NOTES:

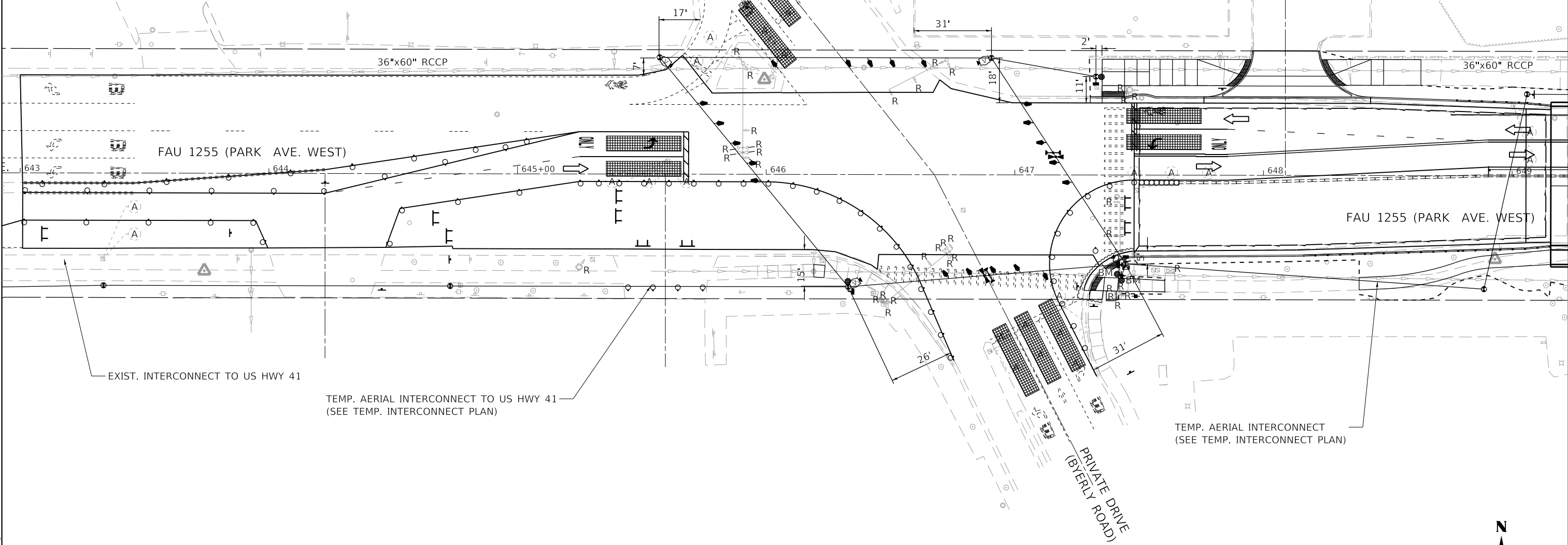
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE.

- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH TRAFFIC SIGNAL POST
- 13 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 4 EACH PEDESTRIAN PUSH-BUTTON
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

HIGHLAND PARK FIRE DEPARTMENT
LARRY AMIDEI - FIRE CHIEF
847-433-3110

- 4 EACH CONFIRMATION BEACON
- 4 EACH LIGHT DETECTOR



EXIST. INTERCONNECT TO US HWY 41

TEMP. AERIAL INTERCONNECT TO US HWY 41
(SEE TEMP. INTERCONNECT PLAN)

TEMP. AERIAL INTERCONNECT
(SEE TEMP. INTERCONNECT PLAN)



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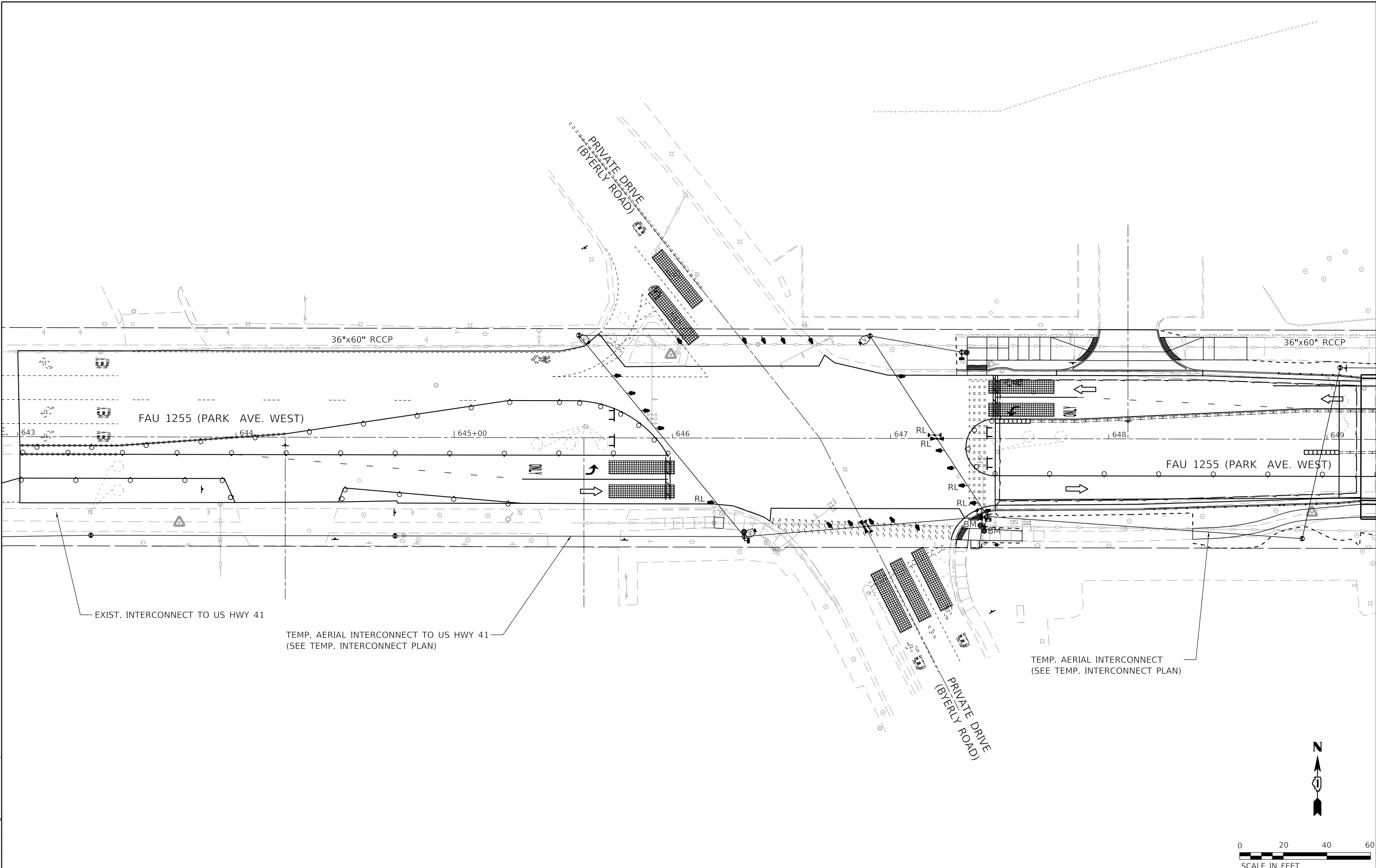
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	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TRAFFIC SIGNAL REMOVAL AND TEMPORARY SIGNAL PLAN - STAGE 1A**

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. TO STA.

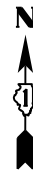
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	58
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



EXIST. INTERCONNECT TO US HWY 41

TEMP. AERIAL INTERCONNECT TO US HWY 41
(SEE TEMP. INTERCONNECT PLAN)

TEMP. AERIAL INTERCONNECT
(SEE TEMP. INTERCONNECT PLAN)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

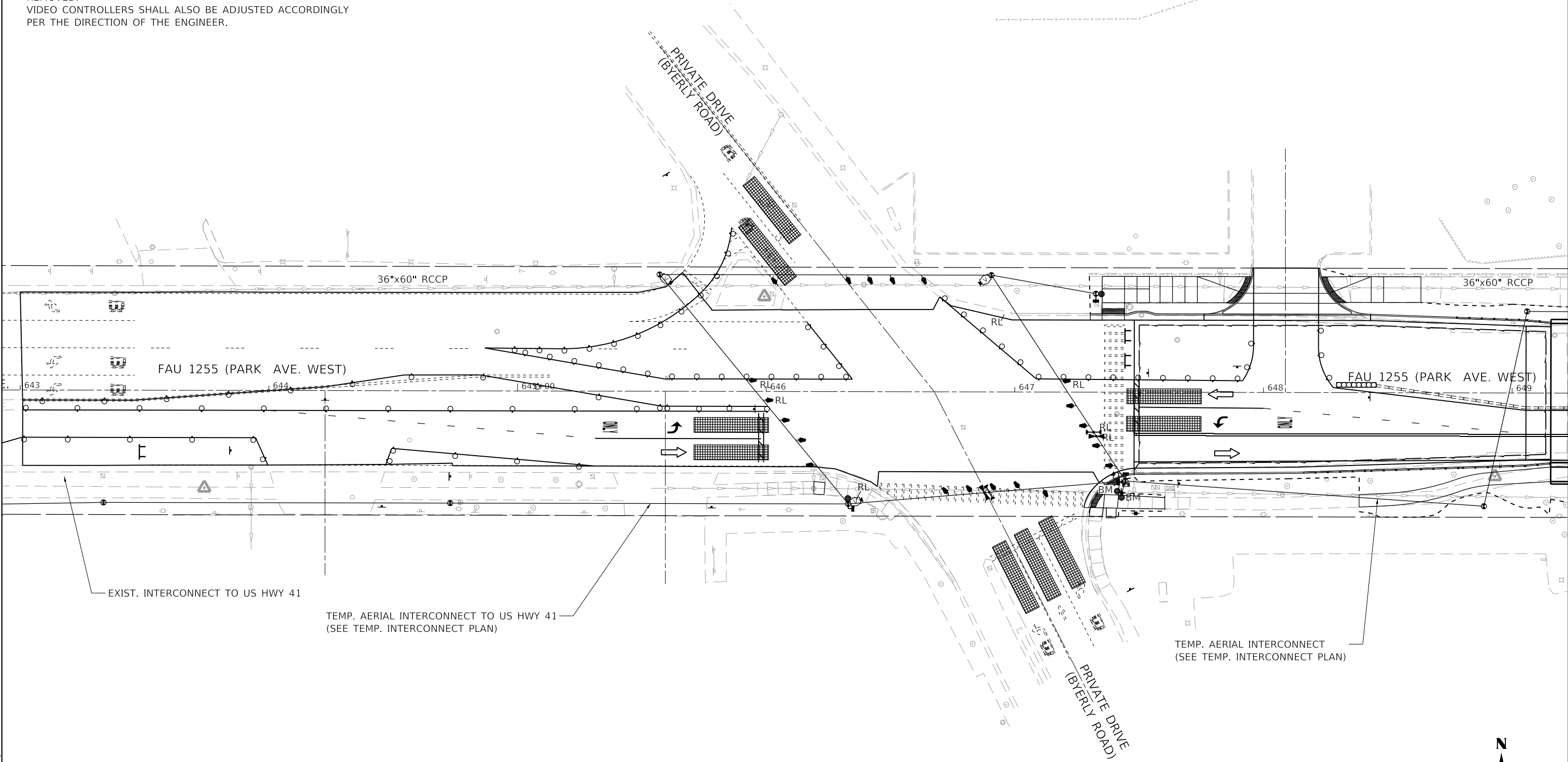
**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TRAFFIC SIGNAL REMOVAL AND TEMPORARY SIGNAL PLAN - STAGE 1B**

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	59
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

NOTES:

THE FAU 1255 (PARK AVE WEST) TEMPORARY SIGNAL HEADS SHALL BE RELOCATED ON THE SPAN WIRE TO ACCOMMODATE THE NECESSARY TRAFFIC LANE LAYOUT IN STAGE 2.
 5- HEAD SIGNAL HEAD FOR WB PARK AVE WEST IS TO BE REMOVED.
 VIDEO CONTROLLERS SHALL ALSO BE ADJUSTED ACCORDINGLY PER THE DIRECTION OF THE ENGINEER.



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	DATE - 2021/07/30	REVISED -

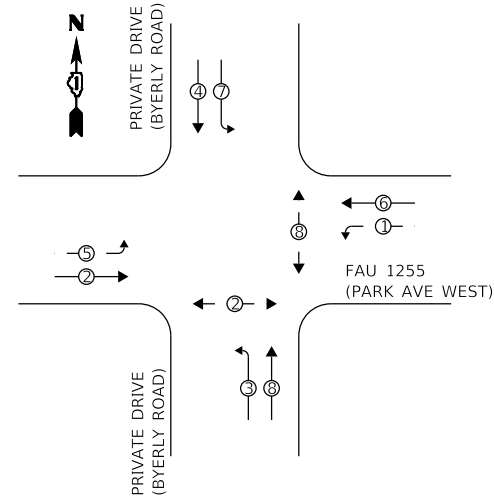
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2**

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	60
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

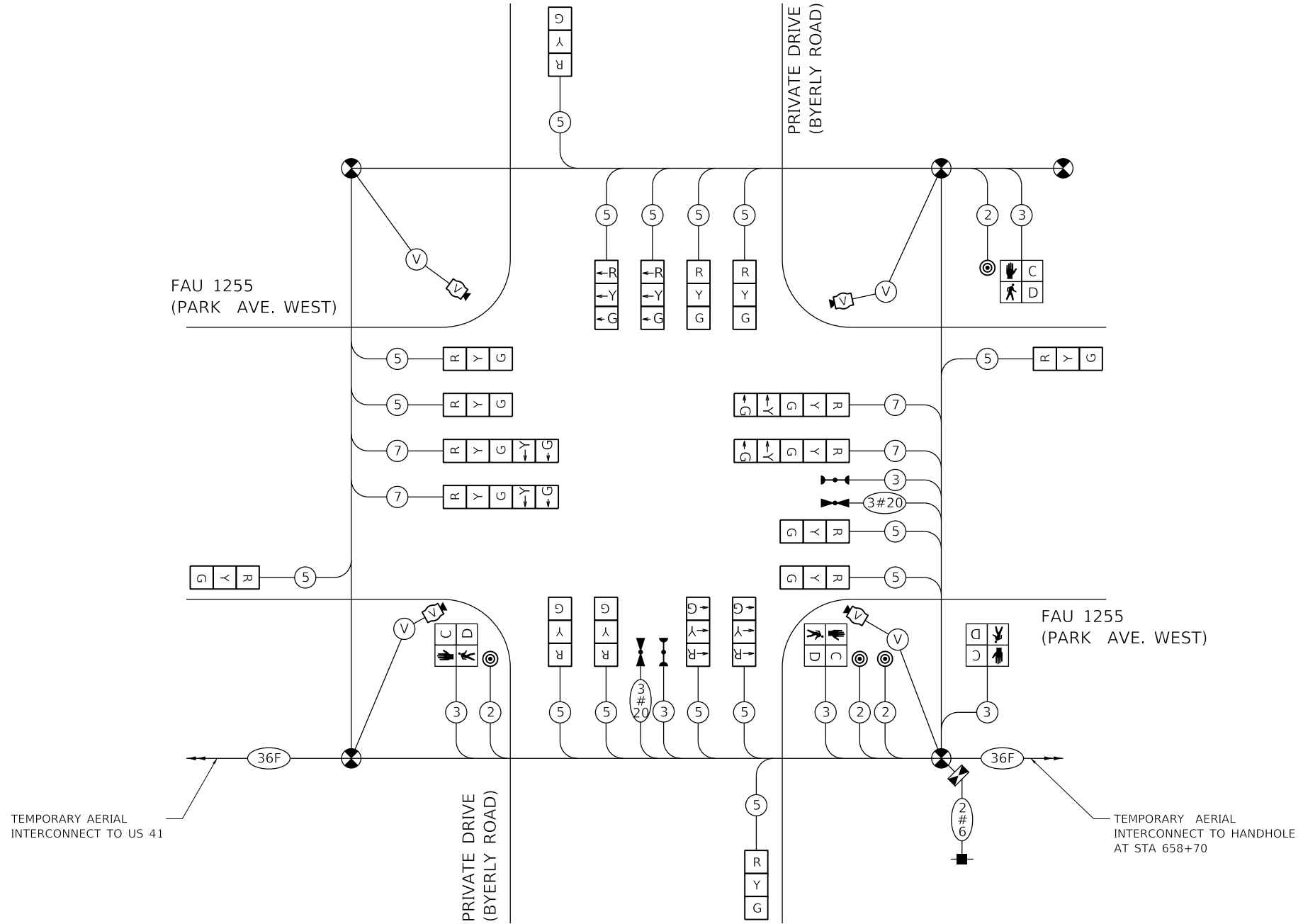
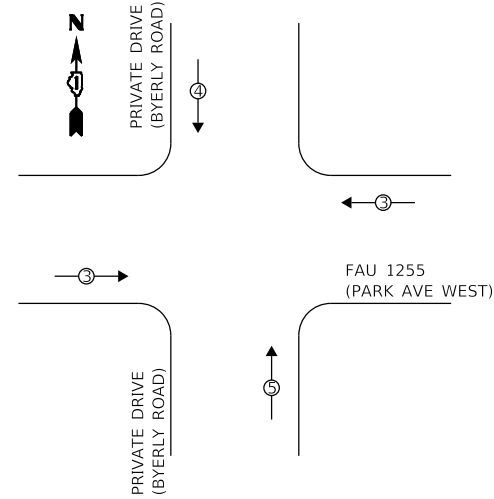
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ←○→ PROTECTED PHASE
- ←○→ PROTECTED/PERMITTED PHASE
- ←○→ PEDESTRIAN PHASE
- ←◇→ OL OVERLAP

**TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TRAFFICSIGNAL
ELECTRICALSERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PROT-PERM ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				558.4

ENERGY COSTS TO:

CITY OF HIGHLAND PARK
1707 ST. JOHNS AVE
HIGHLAND PARK, IL 60035

ENERGY SUPPLY: CONTACT:
PHONE:
COMPANY: COMED
ACCOUNT NUMBER: ---

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DATE: 9/21/2022



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	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A & 2**

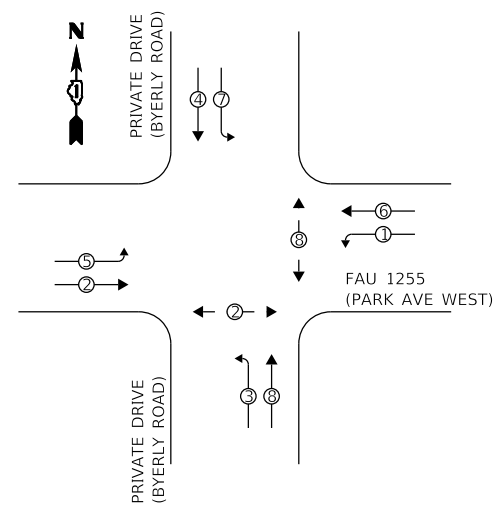
SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	61

CONTRACT NO. 61H33
ILLINOIS FED. AID PROJECT



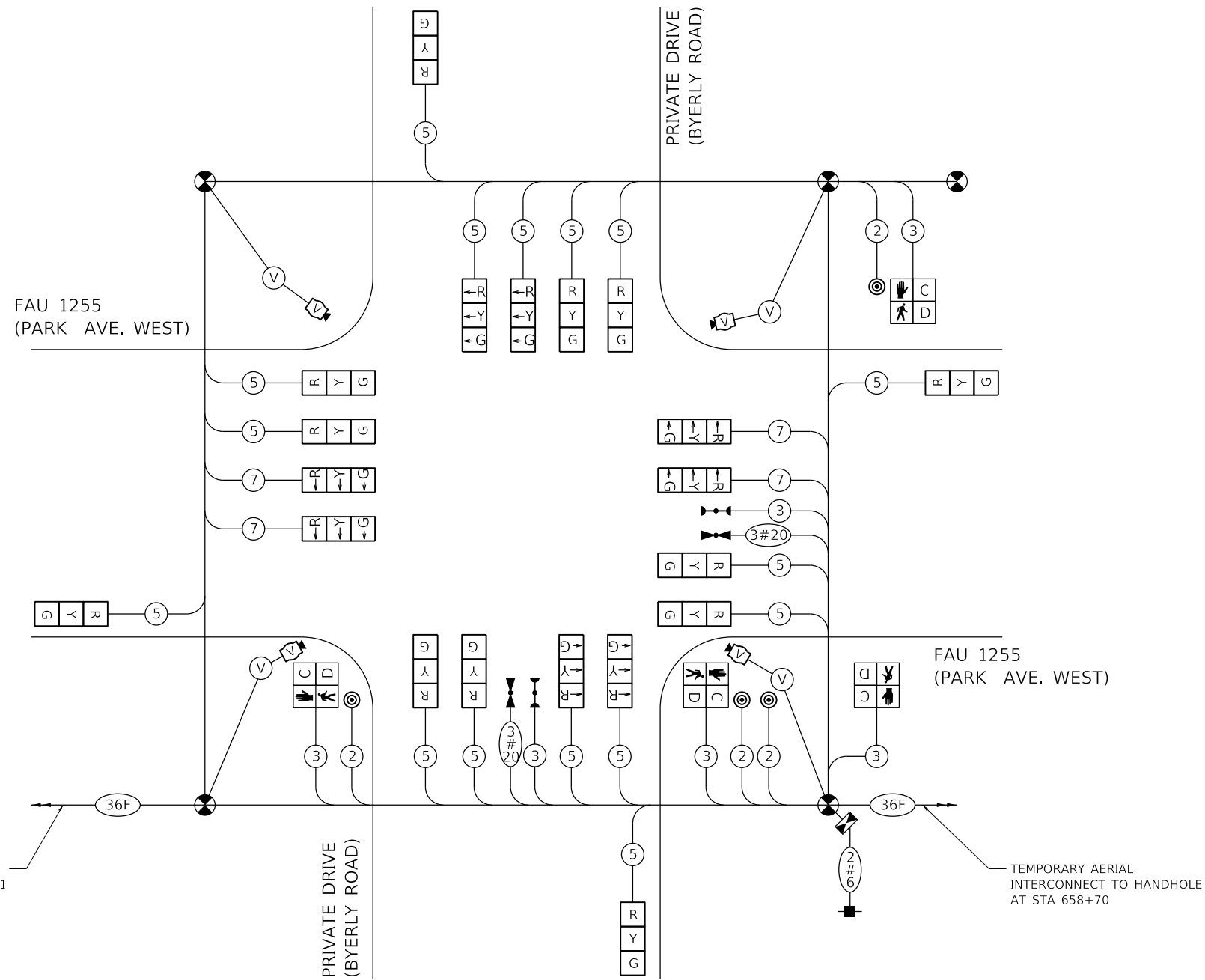
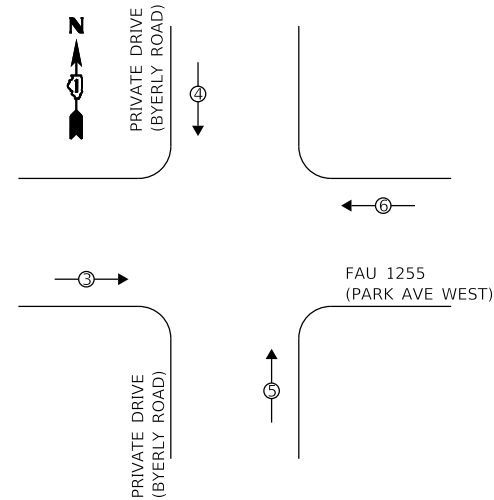
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ← ⊙ → PROTECTED PHASE
- ← ⊙ · PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFICSIGNAL ELECTRICALSERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PROT-PERM ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				532.8

ENERGY COSTS TO:
 CITY OF HIGHLAND PARK
 1707 ST. JOHNS AVE
 HIGHLAND PARK, IL 60035

ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMED
 ACCOUNT NUMBER: _____

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	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
 TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B**

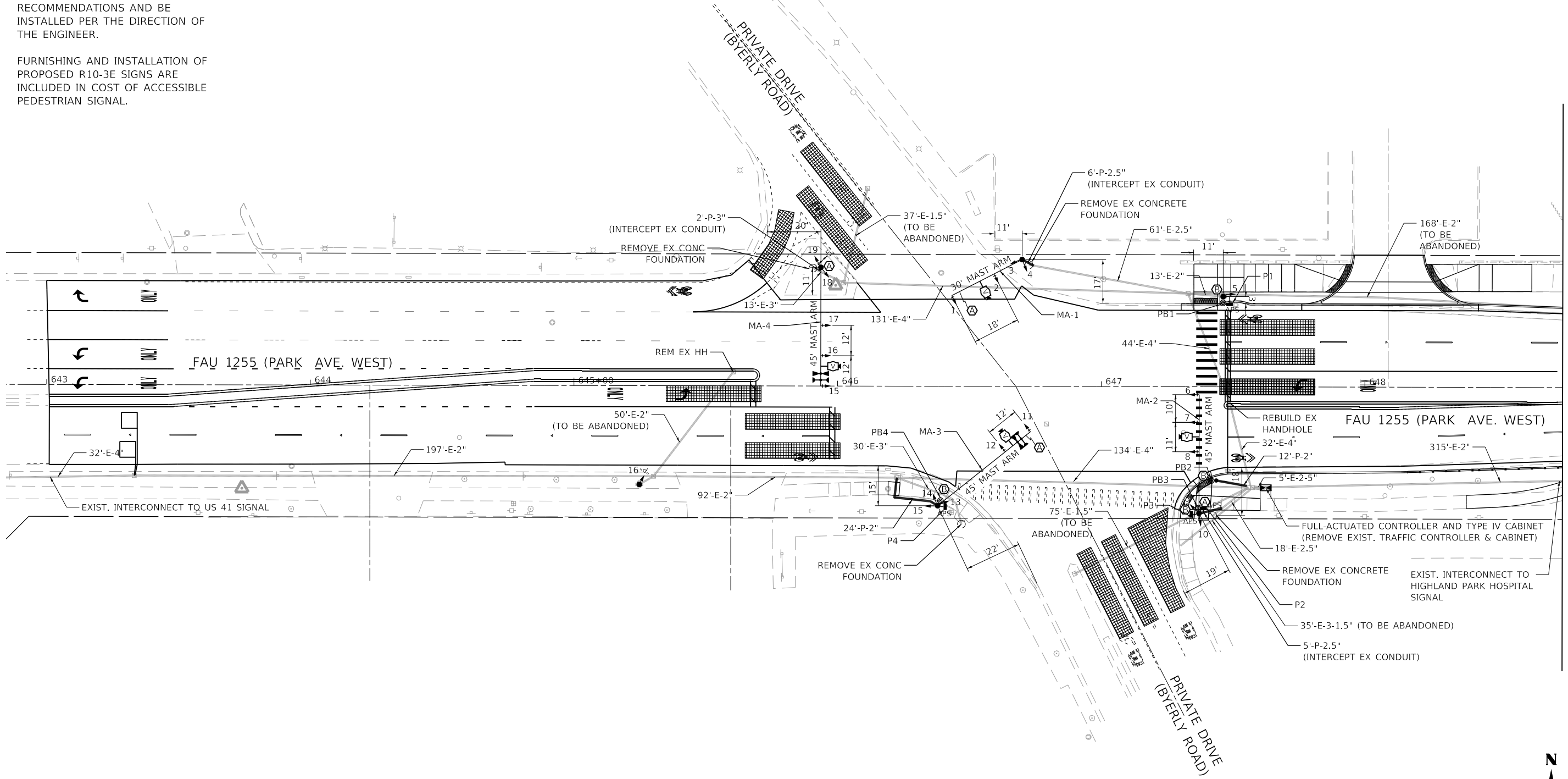
SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	62
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



NOTES:

- 1. TRAFFIC SIGNAL POSTS SHALL BE PLACED ON TOP OF EXISTING FOUNDATIONS.
- 2. THE MOUNTING LOCATION OF THE VIDEO DETECTORS SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND BE INSTALLED PER THE DIRECTION OF THE ENGINEER.
- 3. FURNISHING AND INSTALLATION OF PROPOSED R10-3E SIGNS ARE INCLUDED IN COST OF ACCESSIBLE PEDESTRIAN SIGNAL.

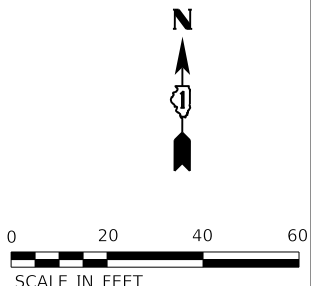


LEFT ON GREEN
ARROW
ONLY



R10-5
30" X 36"
4 EACH

R10-3E
9" X 15"
2 EACH (L)
2 EACH (R)



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	DATE - 2021/07/30	REVISED -

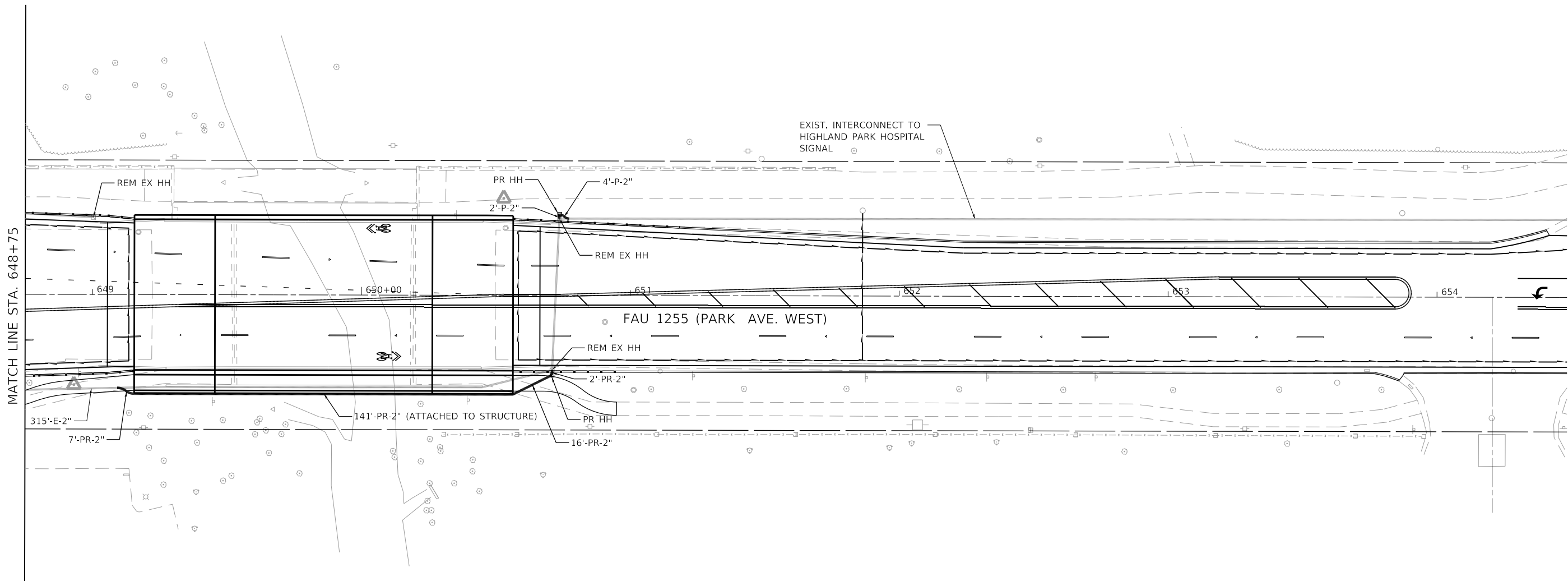
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TRAFFIC SIGNAL MODERNIZATION PLAN**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	63
CONTRACT NO. 61H33				

ILLINOIS FED. AID PROJECT



MATCH LINE STA. 648+75

EXIST. INTERCONNECT TO
HIGHLAND PARK HOSPITAL
SIGNAL

FAU 1255 (PARK AVE. WEST)



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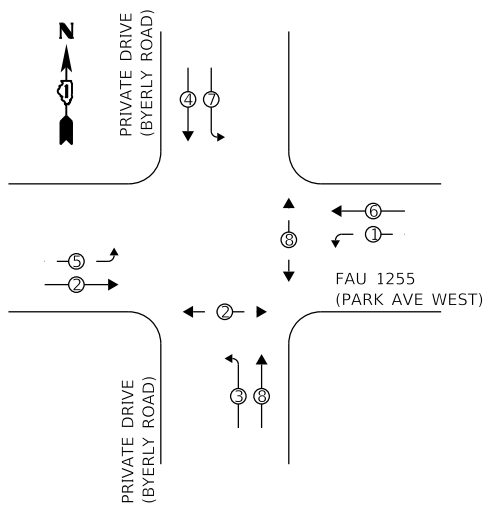
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TRAFFIC SIGNAL MODERNIZATION PLAN**

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	64
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

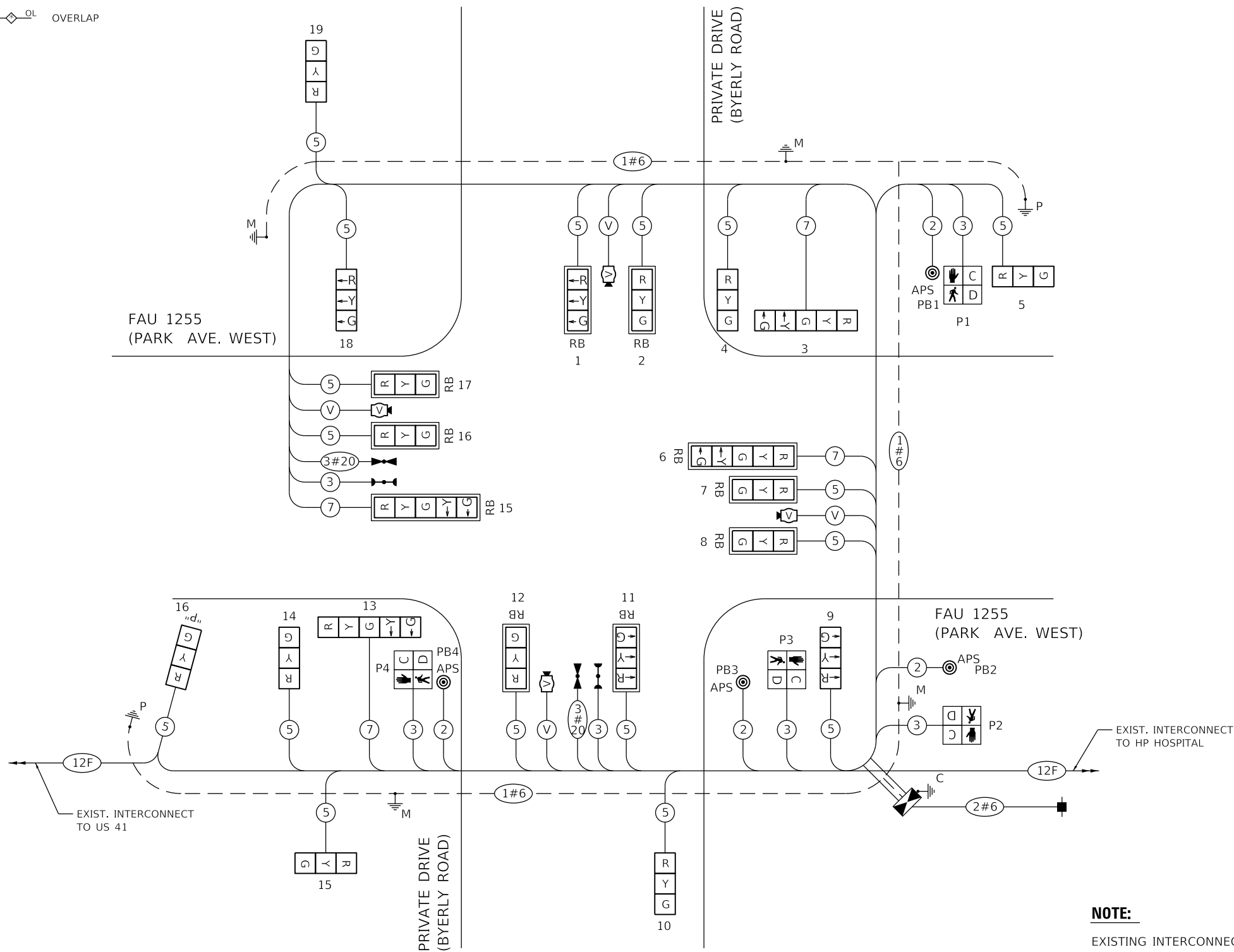
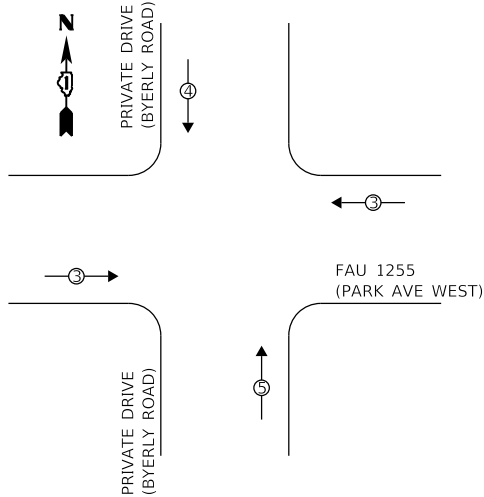
CONTROLLER SEQUENCE



LEGEND

- ← ⊙ → PROTECTED PHASE
- ← ⊙ · → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL → OVERLAP

**EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



CABLE PLAN
(NOT TO SCALE)

NOTE:
EXISTING INTERCONNECT CONDUIT ATTACHED TO BRIDGE WILL BE REPLACED WHILE BRIDGE IS RECONSTRUCTED. EXISTING FIBER CABLE SHALL BE REMOVED AND REINSTALLED IN THE NEW CONDUIT.



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	11	50	121.0
(YELLOW)	17	20	5	17.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	18	10	10	18.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	-	25	100	-
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				577.8

ENERGY COSTS TO:
CITY OF HIGHLAND PARK
1707 ST. JOHNS AVE
HIGHLAND PARK, IL 60035

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COMED
ACCOUNT NUMBER: _____

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
CABLE PLAN, PHASE DIAGRAM, & PREEMPTION SEQUENCE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	65
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL
SIGN PANEL - TYPE 1	SQ FT	34
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	67
UNDERGROUND CONDUIT, PVC, 2-1/2" DIA.	FOOT	11
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	2
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	141
HANDHOLE	EACH	2
FULL ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	8
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	1202
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	790
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1968
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6954
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1676
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	740
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 45 FT.	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	10
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING CABLE FROM CONDUIT	FOOT	11354
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO 20 3/C	FOOT	1148
ROD AND CLEAN EXISTING CONDUIT	FOOT	540
RELOCATE EXISTING ELECTRICAL SYSTEM	L SUM	1
TEMPORARY VIDEO DETECTION	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
PAINT TRAFFIC SIGNAL EQUIPMENT	L SUM	1
UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1
PEDESTRIAN PUSH BUTTON POST, TYPE A	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT	FOOT	1202
VIDEO DETECTION SYSTEM COMPLETE	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
REMOVE AND REPLACE ANCHOR BOLTS	EACH	2
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2

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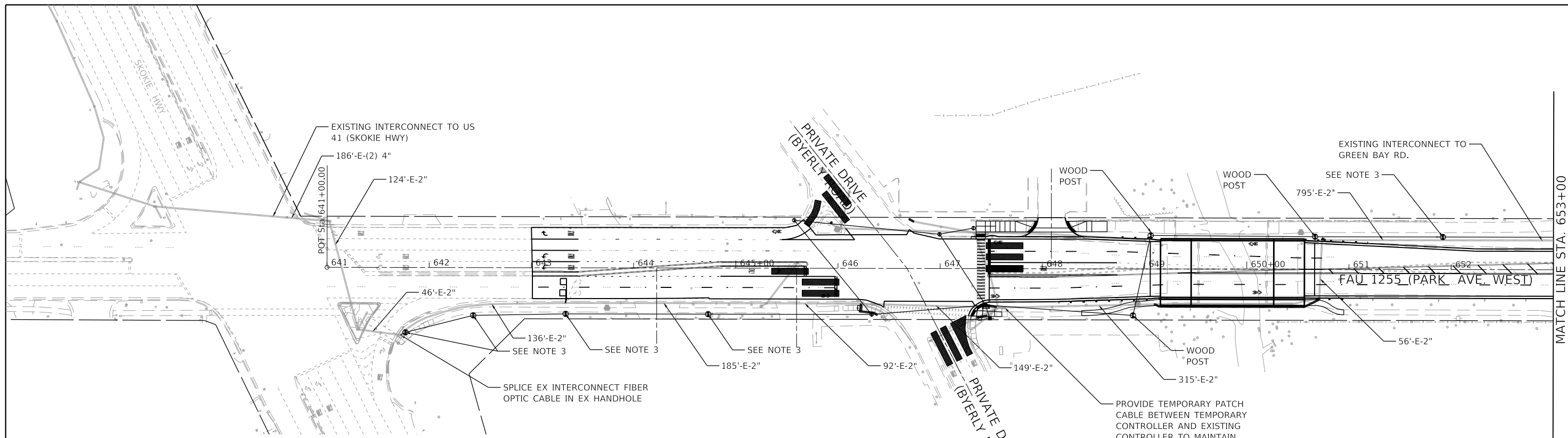
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	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

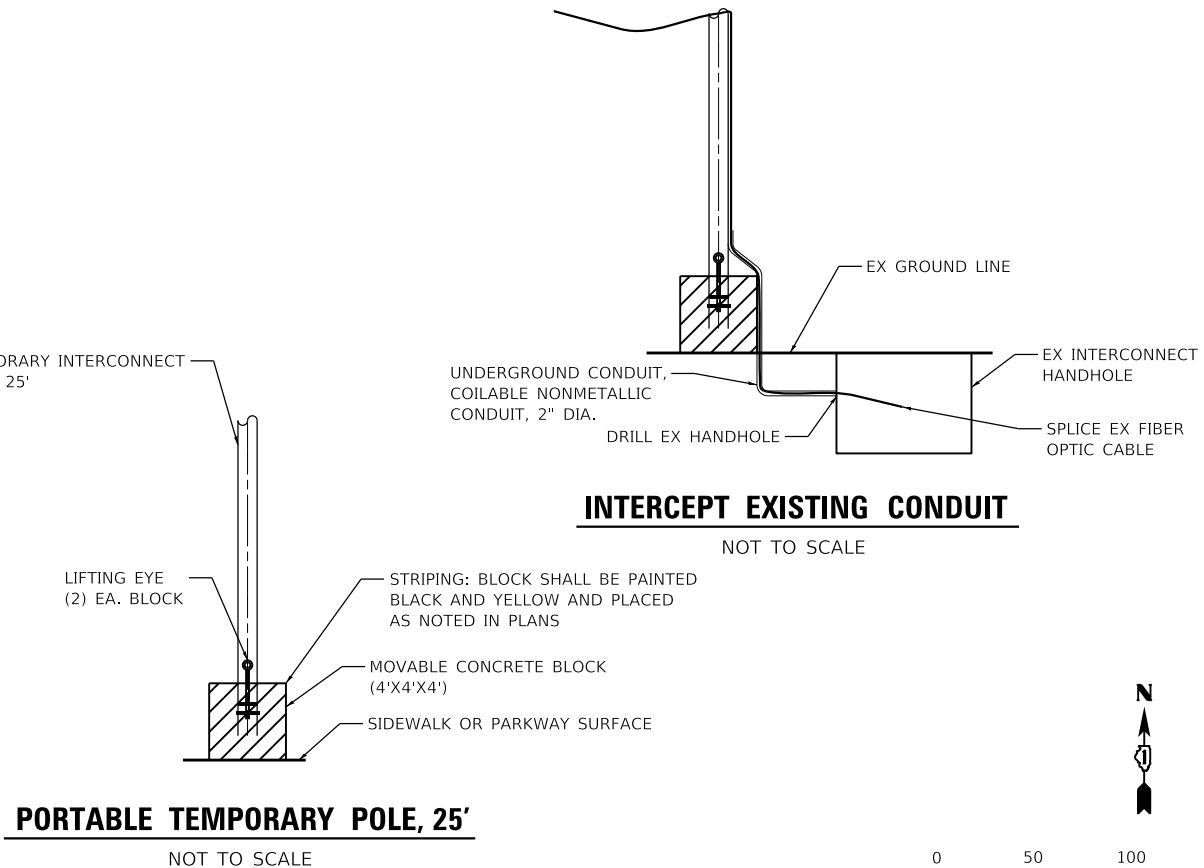
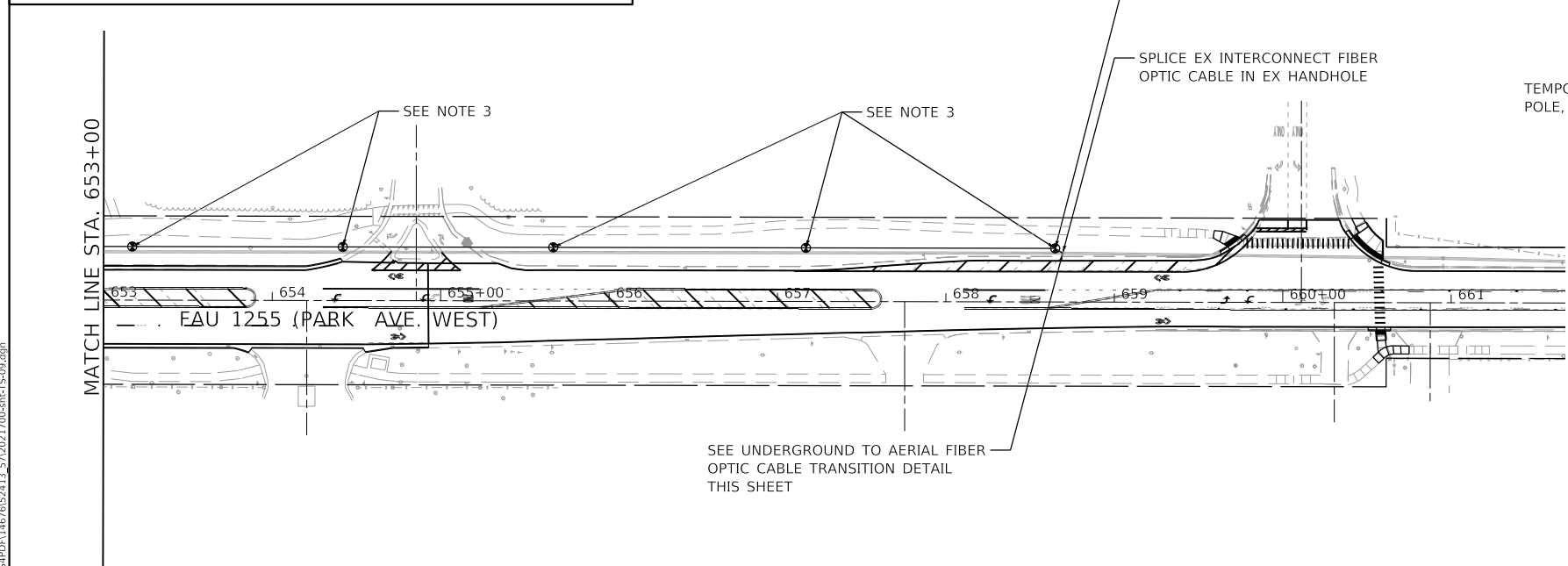
**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TRAFFIC SIGNAL SCHEDULE OF QUANTITIES**

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	66
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



- NOTES:**
- SEE TEMPORARY TRAFFIC SIGNAL PLANS FOR TEMPORARY SIGNAL EQUIPMENT LOCATIONS.
 - REMOVE EXISTING SWITCH FROM EXISTING TRAFFIC SIGNAL CONTROLLER CABINET. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNALS.
 - PORTABLE TEMPORARY POLE, 25' SEE DETAIL THIS SHEET.
 - EX FIBER OPTIC CABLE TO BE REMOVED FROM CONTROLLER AT BYERLY ROAD TO HANDHOLE AT STA 658+70. AFTER PERMANENT SIGNALS INSTALLED THE CABLE SHALL BE RE-INSTALLED THROUGH CONDUIT TO NEW TRAFFIC CONTROLLER CABINET.



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	DATE - 2021/07/30	REVISED -

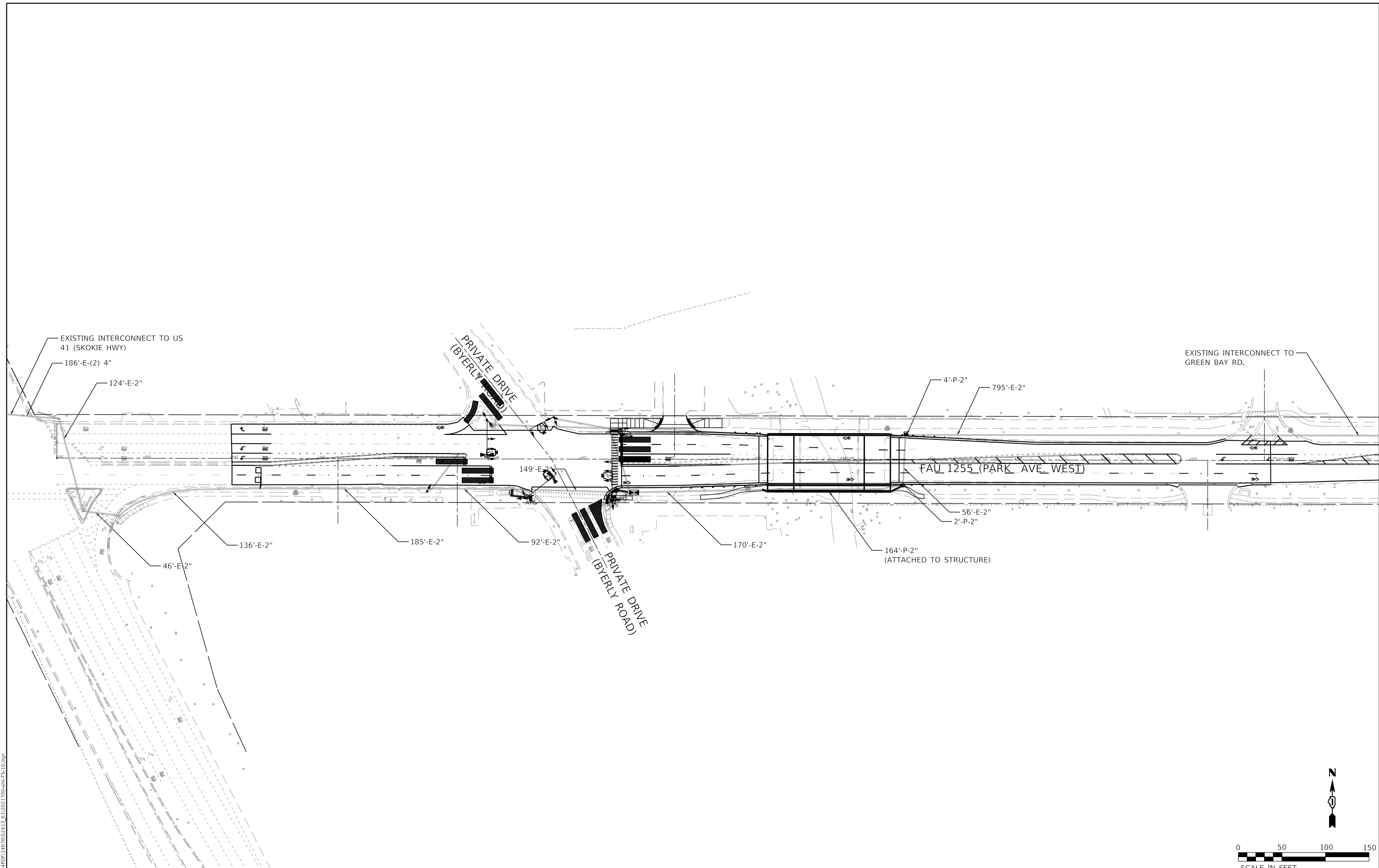
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
TEMPORARY INTERCONNECT PLAN**

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	67
CONTRACT NO. 61H33				

ILLINOIS FED. AID PROJECT



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	DATE - 2021/07/30	REVISED -

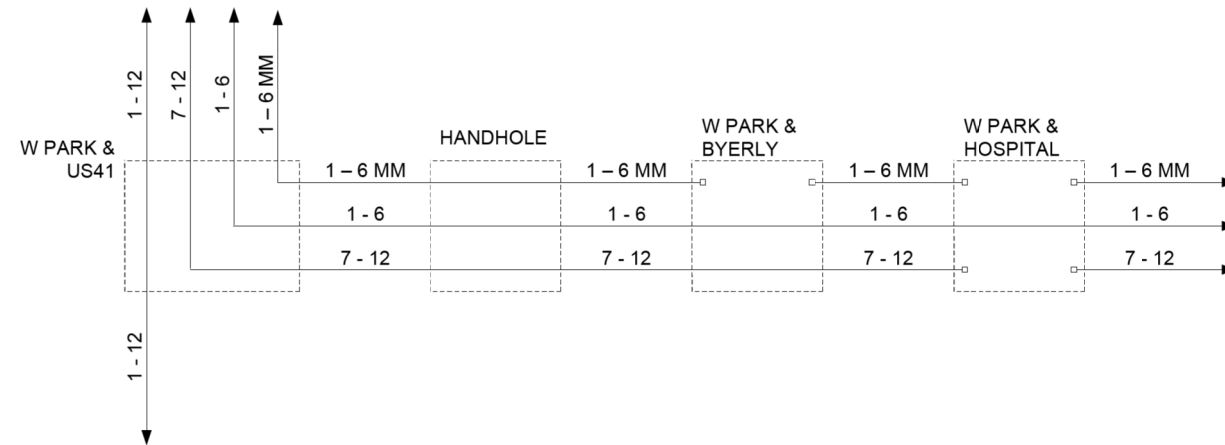
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) & PRIVATE DRIVE (BYERLY ROAD)
INTERCONNECT PLAN
 SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. TO STA.

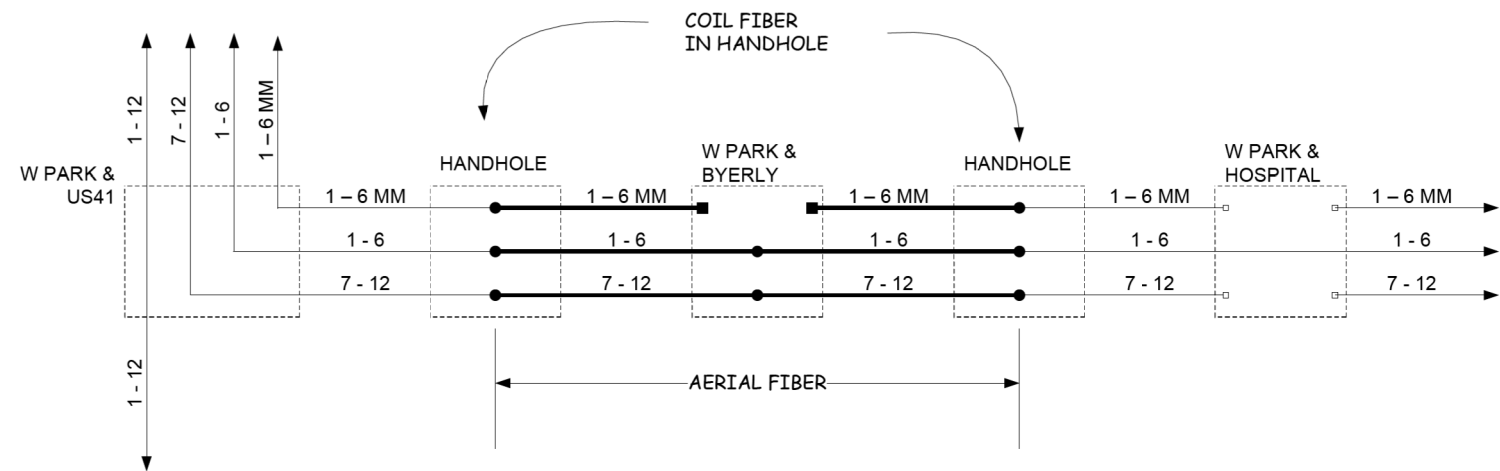
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1255	13-00122-00-BR	LAKE	145	68
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

-  EXISTING CONNECTOR / EXISTING FIBER
-  NEW CONNECTOR / EXISTING FIBER
-  EXISTING FUSION SPLICE / EXISTING FIBER
-  NEW FUSION SPLICE / EXISTING FIBER
-  NEW CONNECTOR / NEW FIBER
-  NEW FUSION SPLICE / NEW FIBER

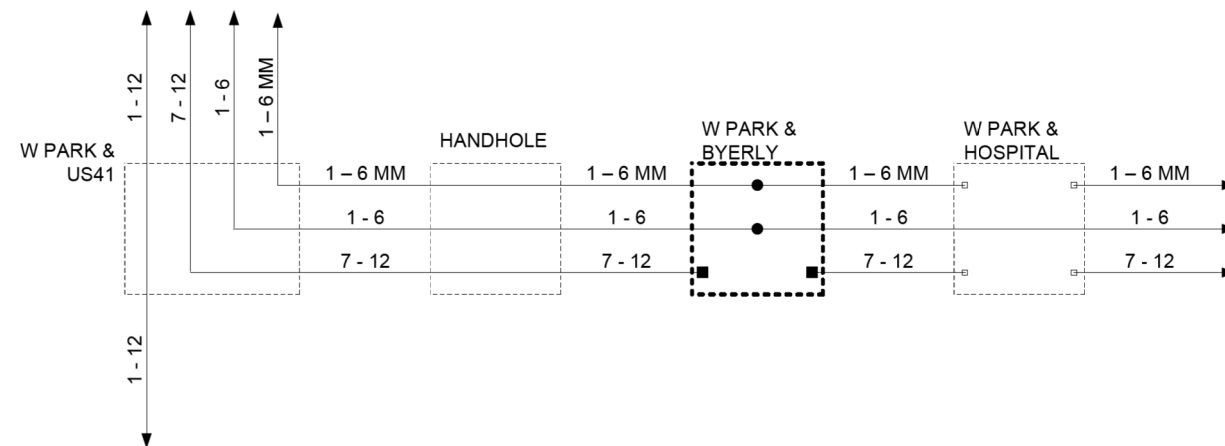
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TEMP



FINAL

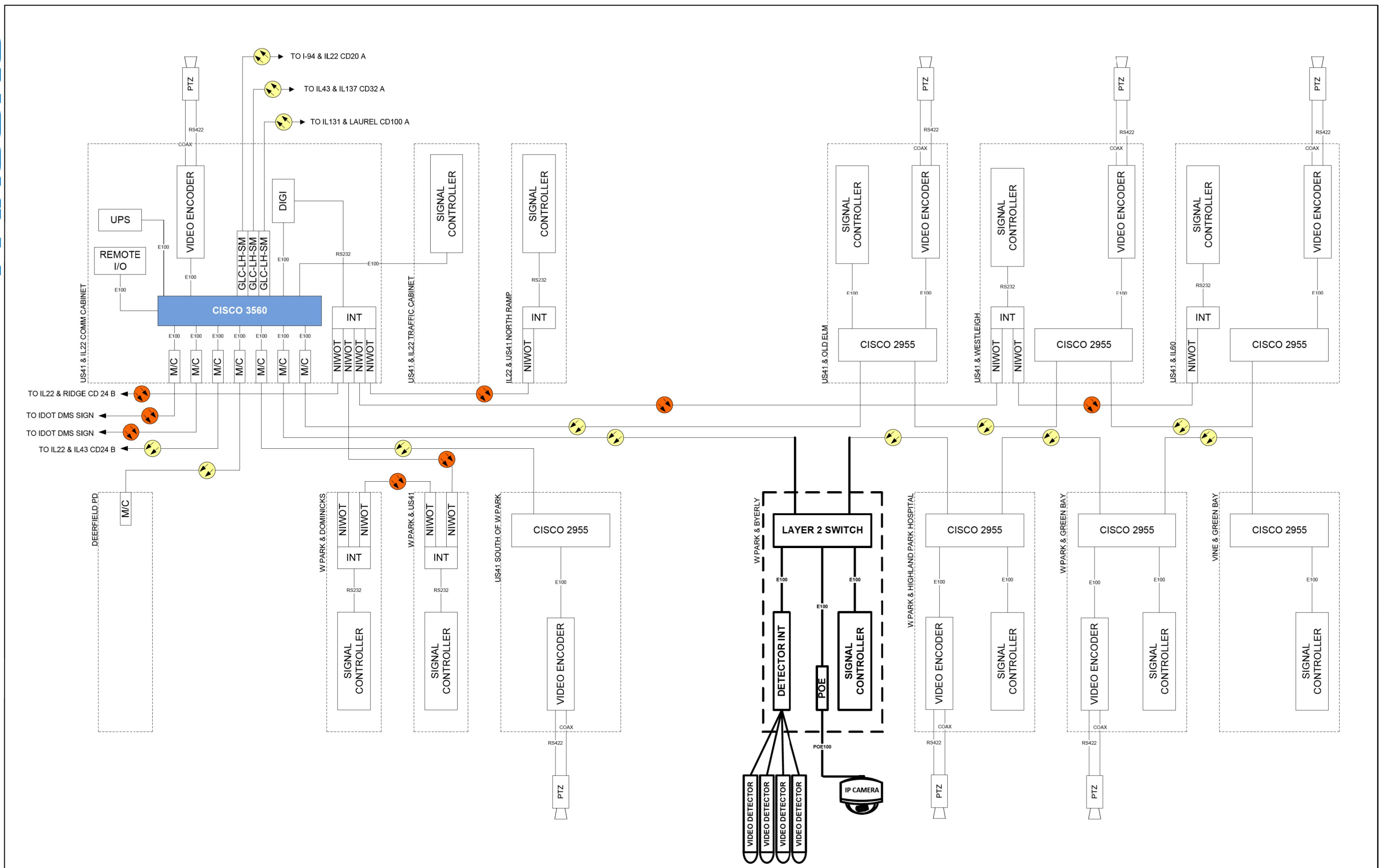


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	DRAWN - YM	REVISED -								
	CHECKED - DG	REVISED -								
	DATE 2022.09.26	REVISED -			SCALE N/A					

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	69
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



DESIGNED - DG	REVISD -	LAKE COUNTY DIVISION OF TRANSPORTATION	24A IL22 / US41		ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
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DATE 2022.09.26	REVISD -								

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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	70
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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PLOT DATE - 3/4/2019	DATE - 9/29/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

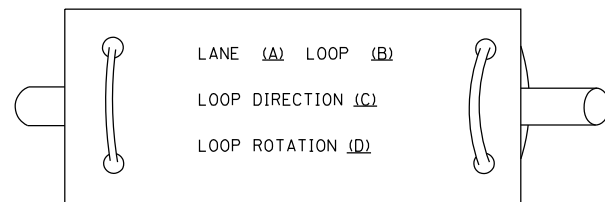
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TS-05			CONTRACT NO. 61H33
		ILLINOIS		FED. AID PROJECT

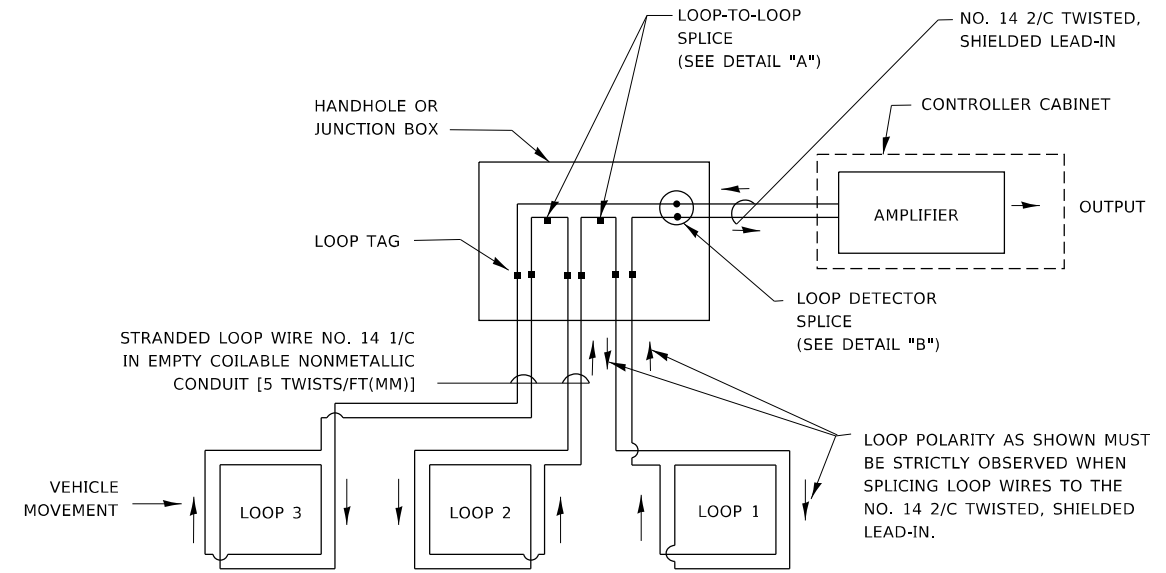
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

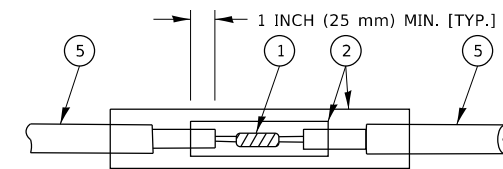


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

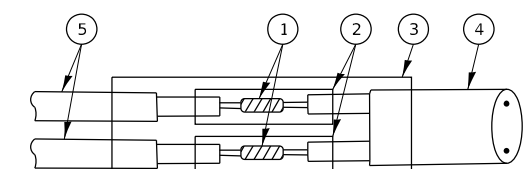


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

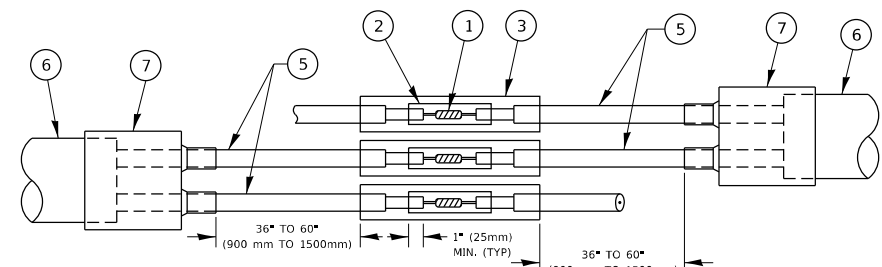


DETAIL "A"
LOOP-TO-LOOP SPLICE

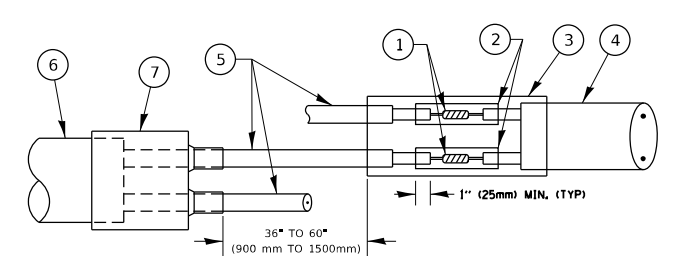


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

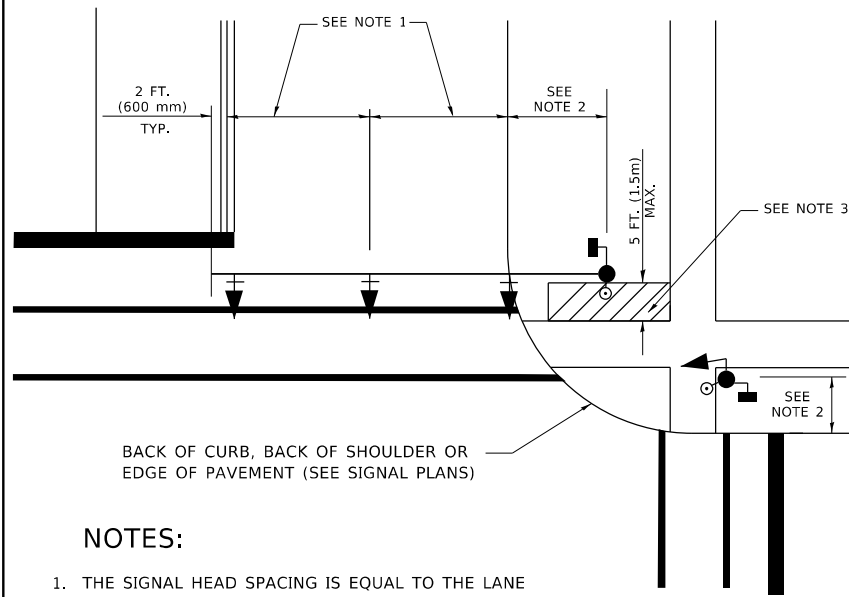
SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	72
	TS-05	CONTRACT NO.	61H33	
		ILLINOIS	FED. AID PROJECT	

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 PROJECT: 13-00122-00-BR...
 DATE: 3/4/2019

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

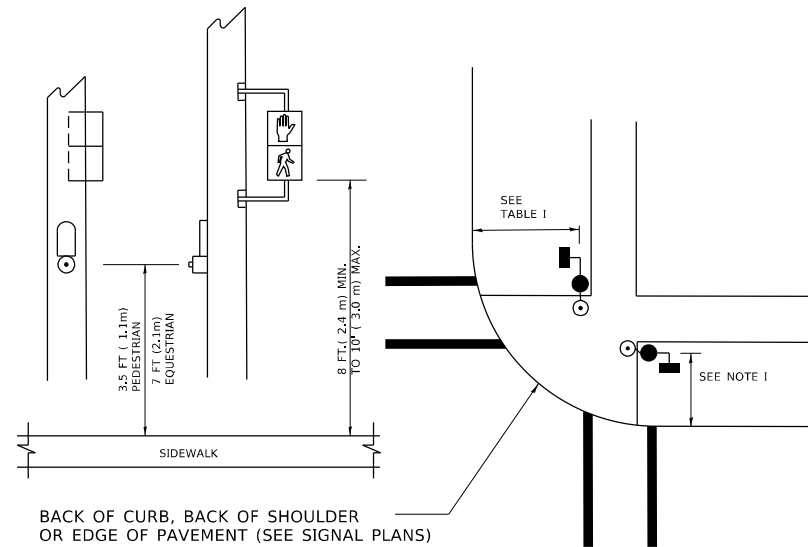
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

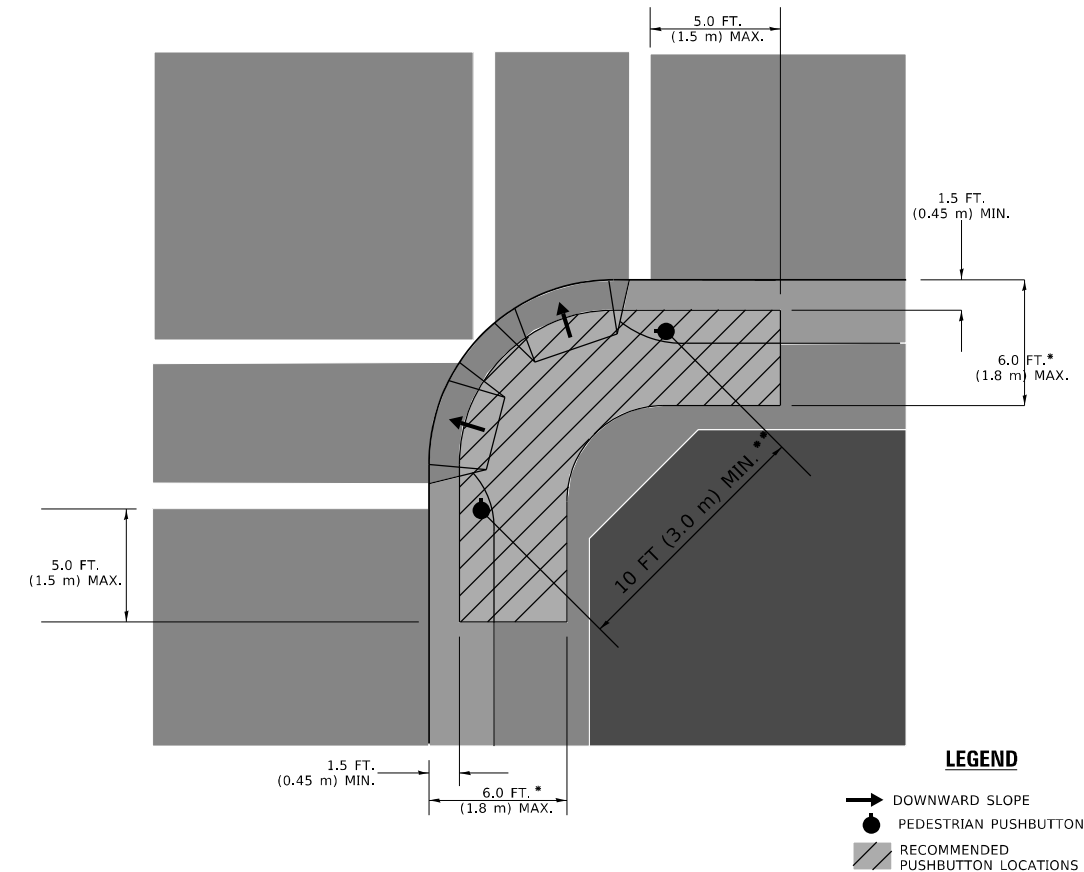
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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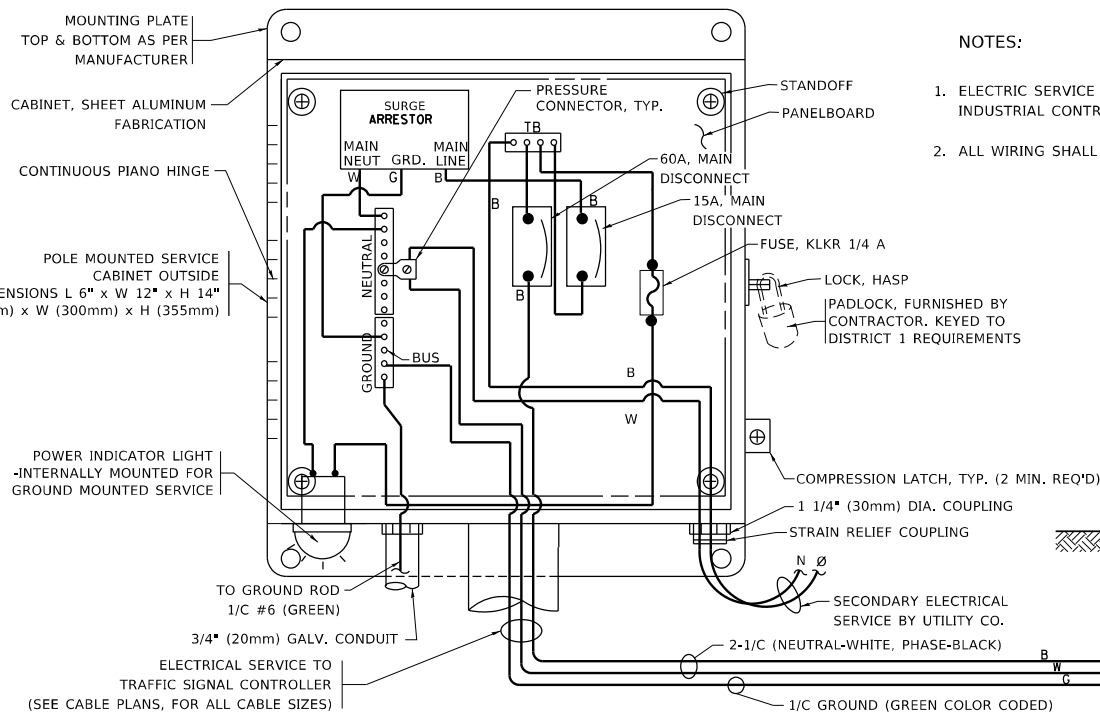
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	DRAWN -	REVISED -
PLOT SCALE - 50.0000 * / in.	CHECKED -	REVISED -
PLOT DATE - 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

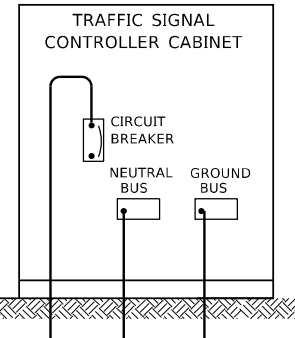
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

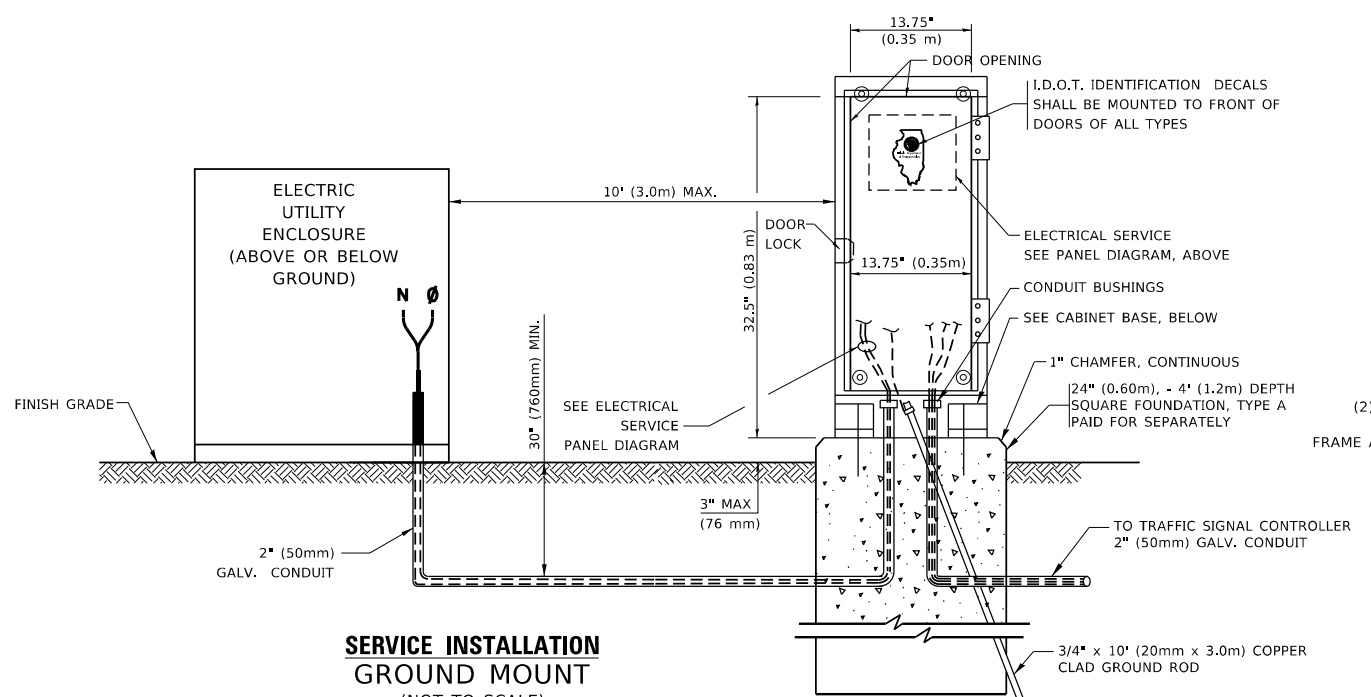
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	73
	TS-05			CONTRACT NO. 61H33
		ILLINOIS	FED. AID PROJECT	



- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

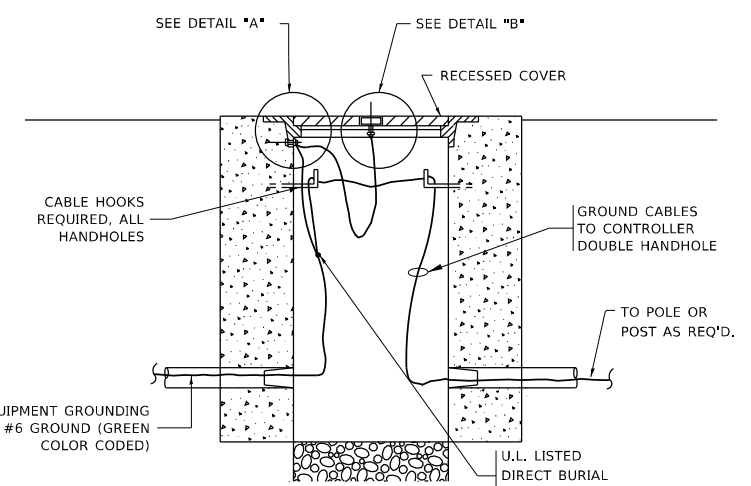
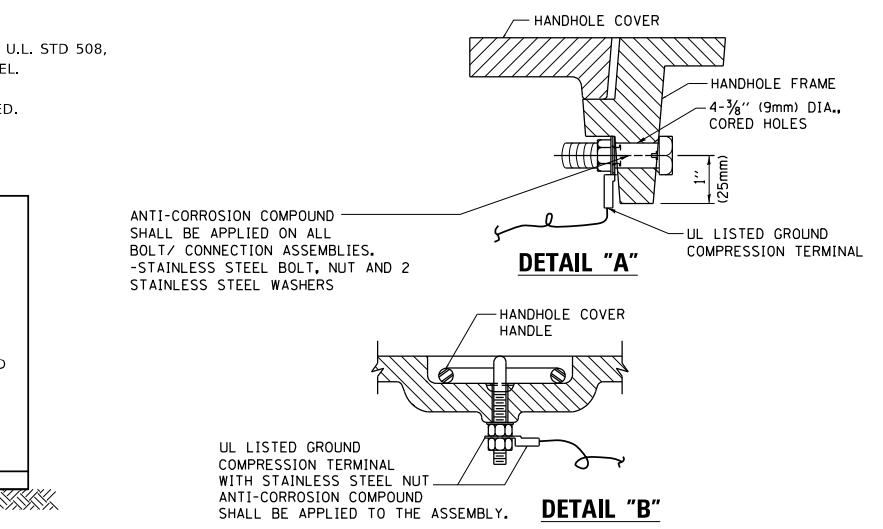
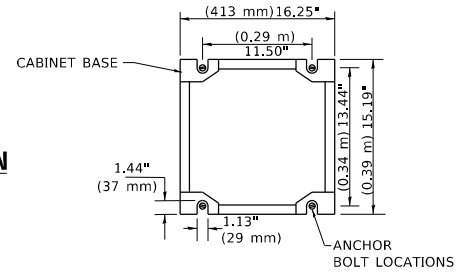


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

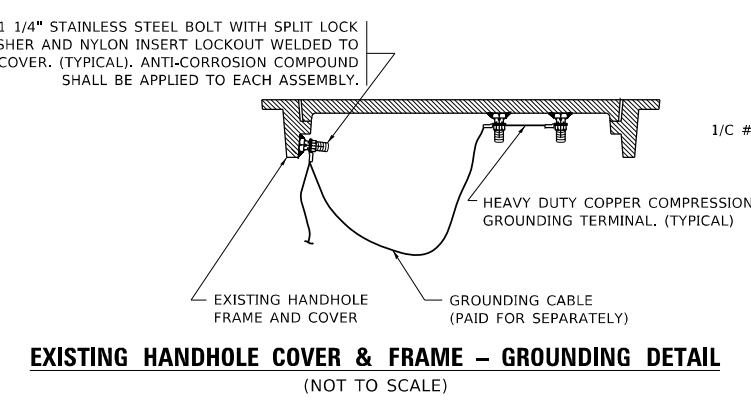


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

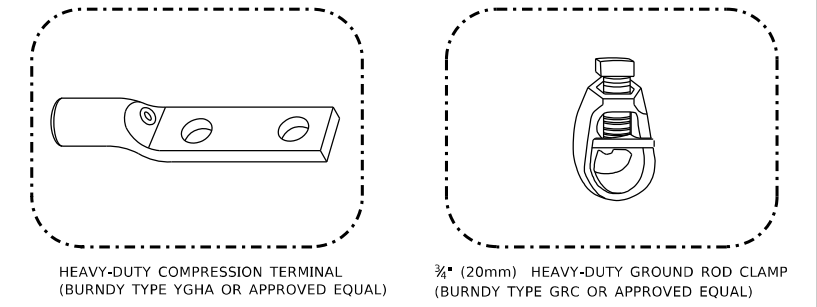
CABINET – BASE BOLT PATTERN
 (NOT TO SCALE)



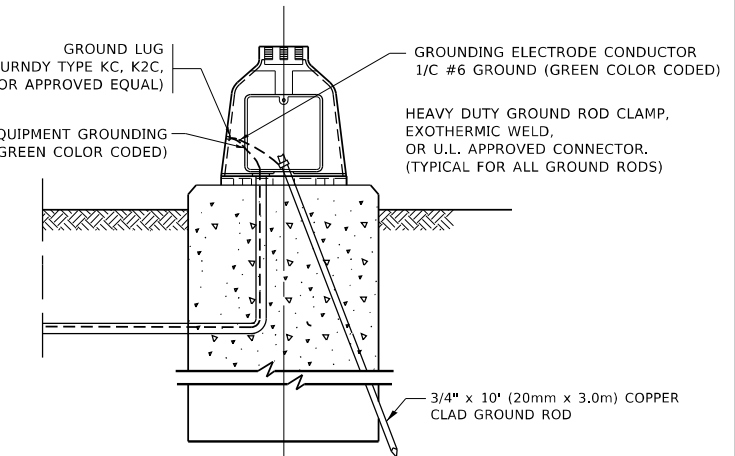
HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL
 (NOT TO SCALE)



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
 - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
 - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
 - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE /POST-GROUNDING DETAIL
 (NOT TO SCALE)

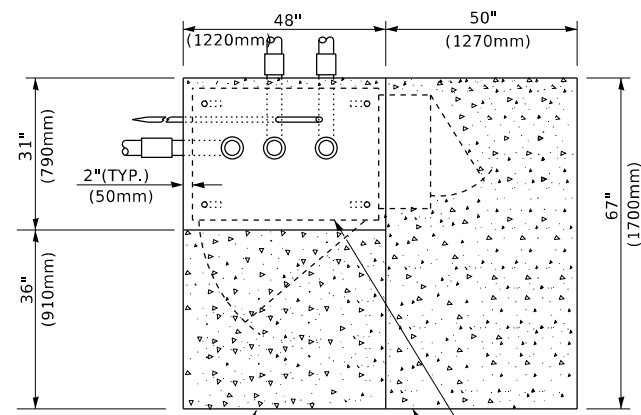
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 DATE: 3/4/2019

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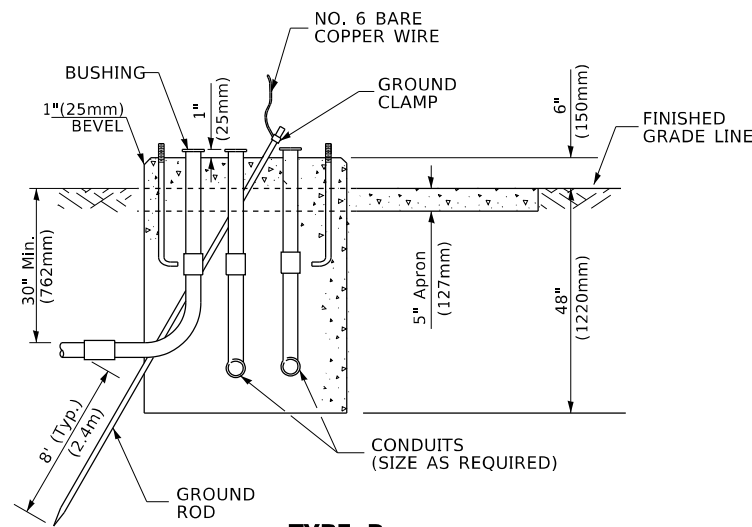
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 4	OF 7 SHEETS	STA. TO STA.

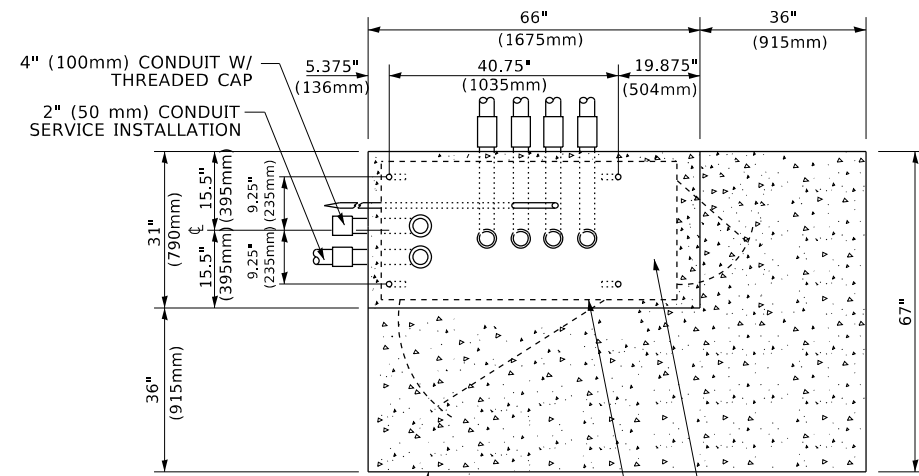
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	74
	TS-05	CONTRACT NO.	61H33	
ILLINOIS FED. AID PROJECT				



TOP VIEW

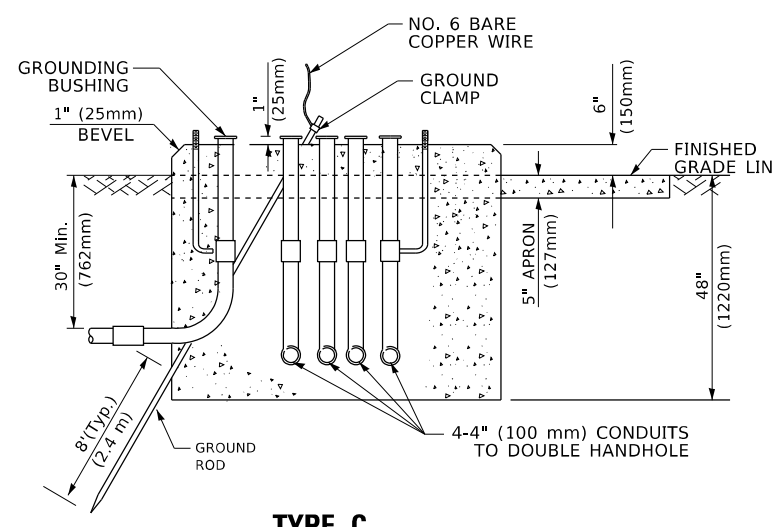


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

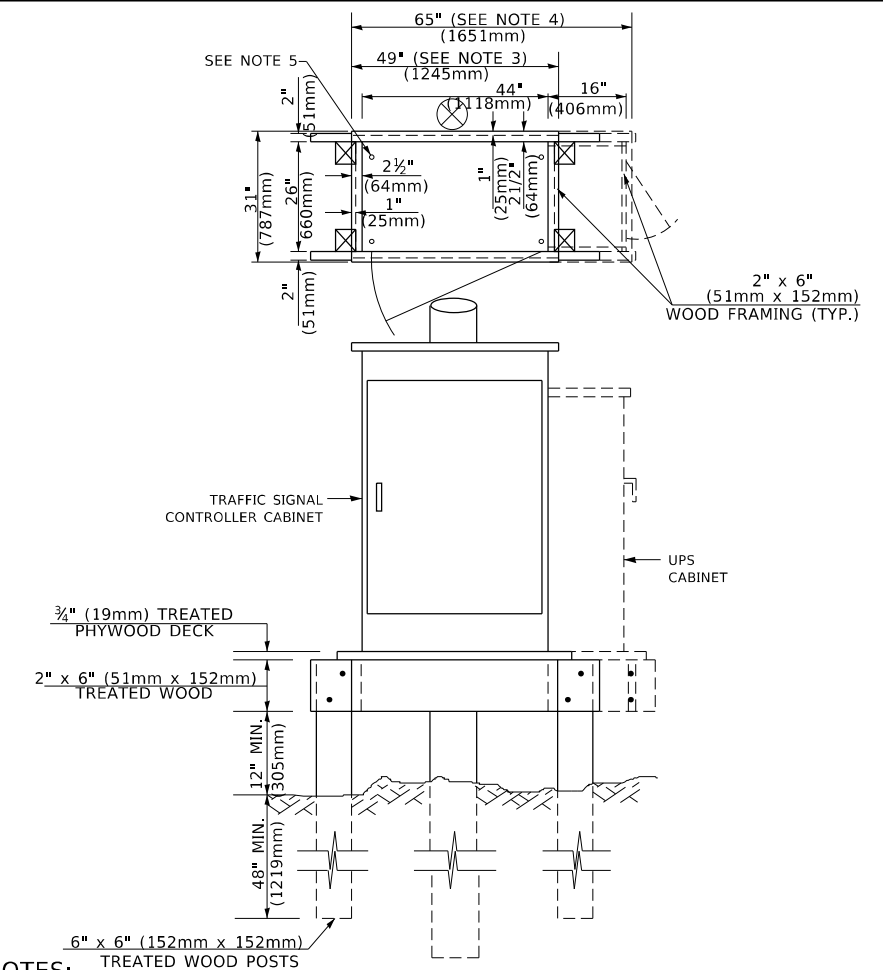


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL
BE HIGHER THAN TOP OF
DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

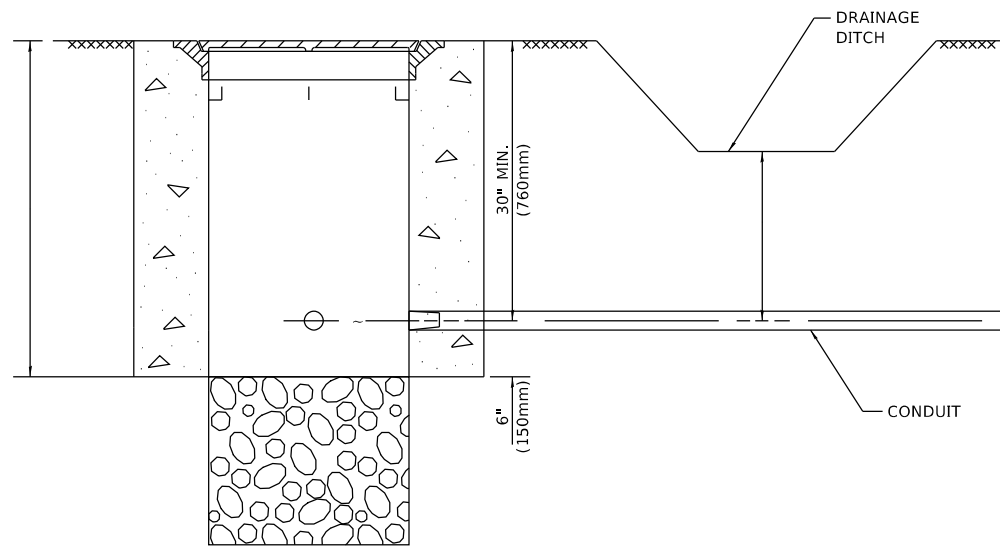
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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 DATE: 3/4/2019

USER NAME - [footem]	DESIGNED -	REVISED -
PLOT SCALE - 50.0000 "/in.	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

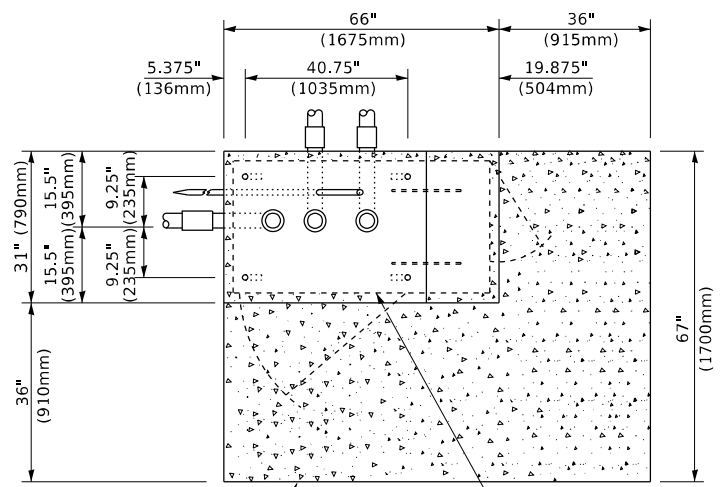
SCALE: NONE		SHEET 5 OF 7 SHEETS		STA. TO STA.		DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
									13-00122-00-BR	LAKE	145	75
									TS-05			CONTRACT NO. 61H33
								ILLINOIS		FED. AID PROJECT		



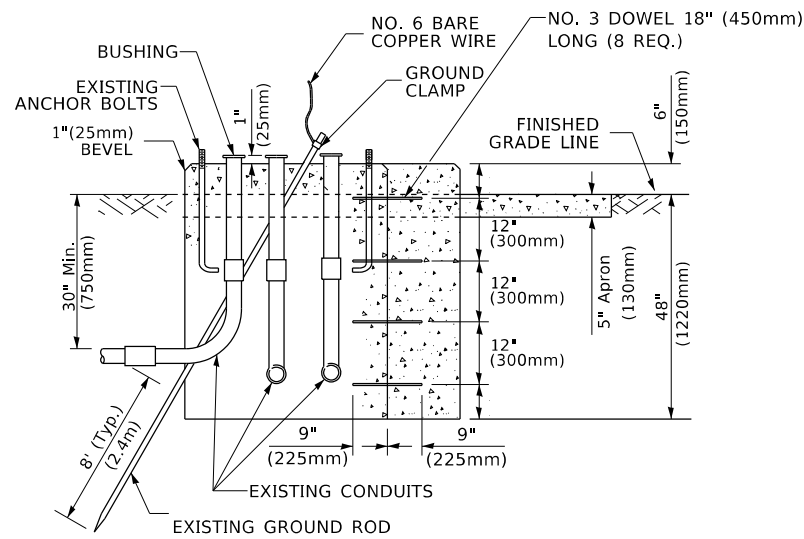
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

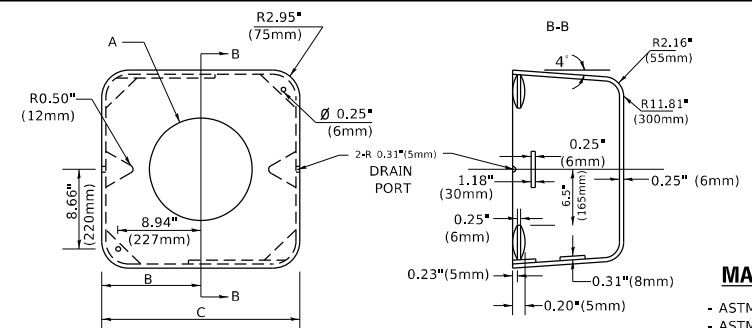


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

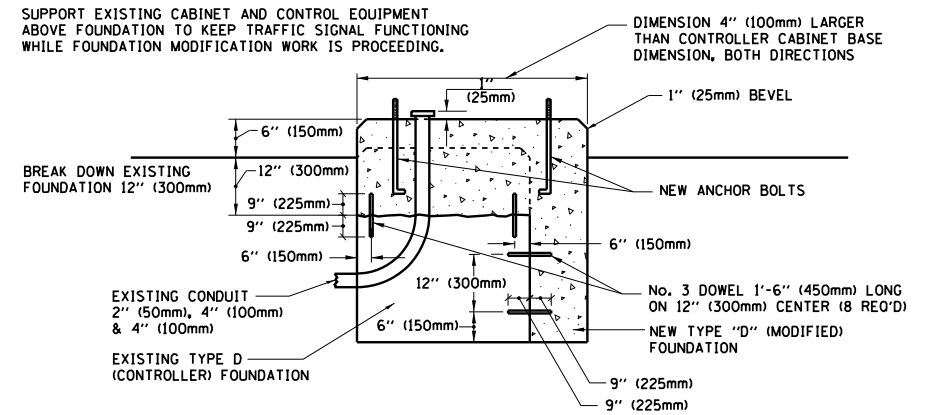
SHROUD

NOTES:

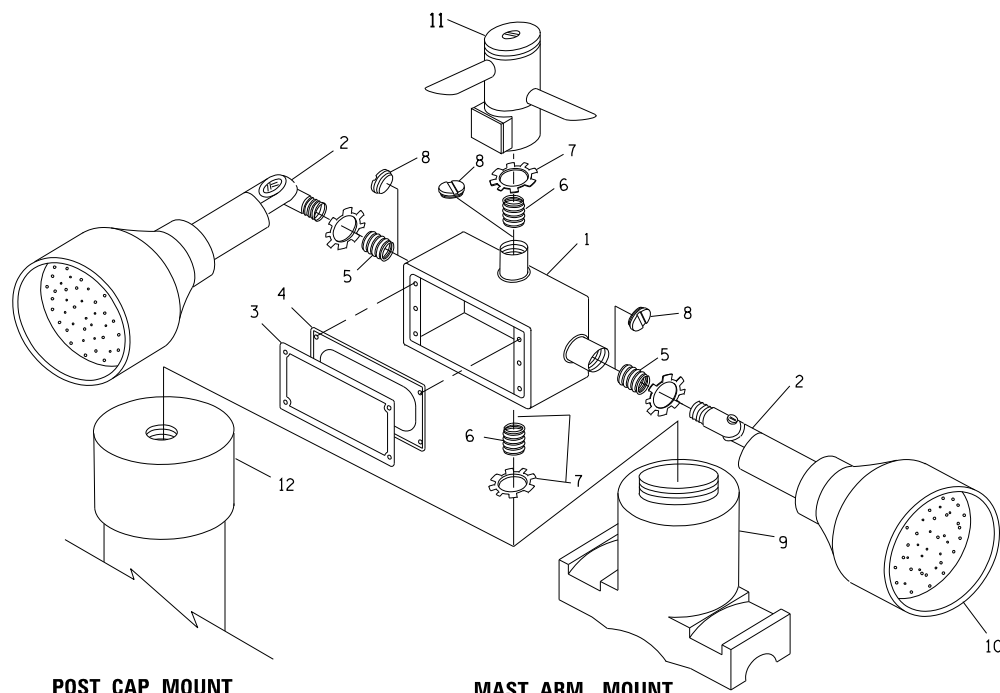
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



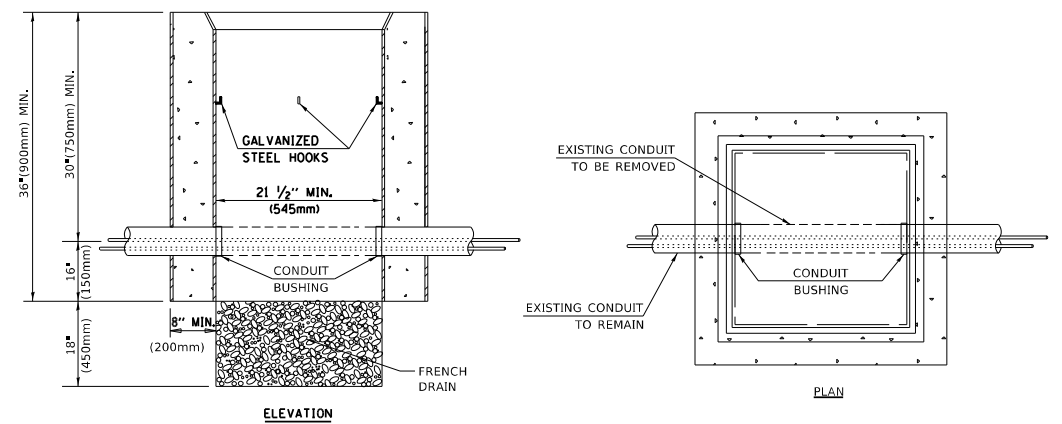
MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

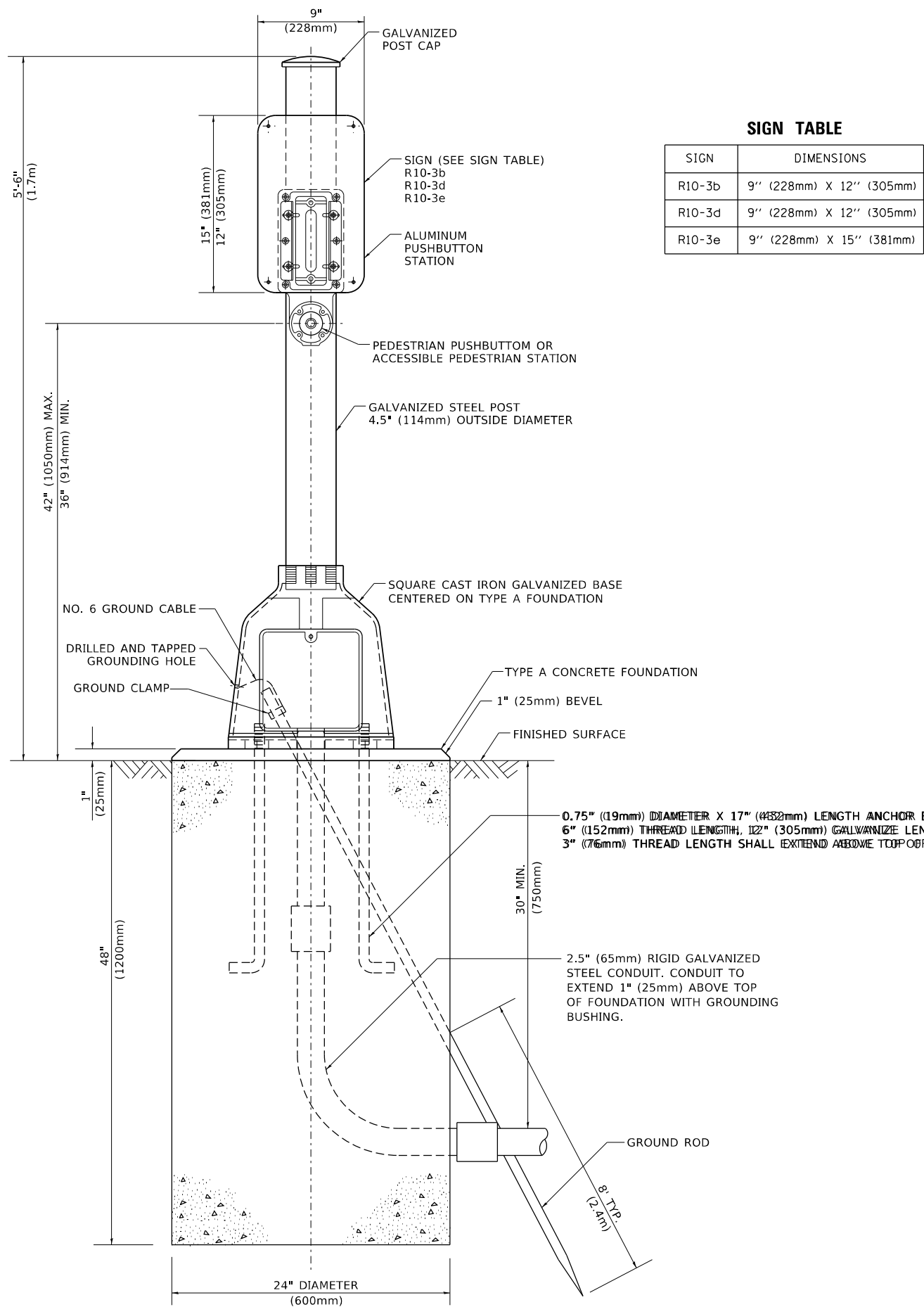
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USER NAME	DESIGNED	REVISED
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	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

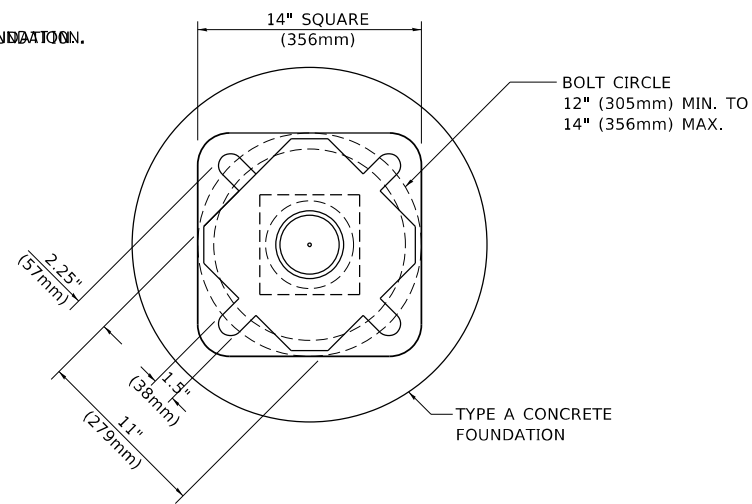
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 6	OF 7 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	76
	TS-05	CONTRACT NO.	61H33	
ILLINOIS FED. AID PROJECT				



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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 PROJECT: ...
 DATE: 3/4/2019

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PLOT SCALE - 50.0000 * / in.	DRAWN -	REVISED -
PLOT DATE - 3/4/2019	CHECKED -	REVISED -
	DATE -	REVISED -

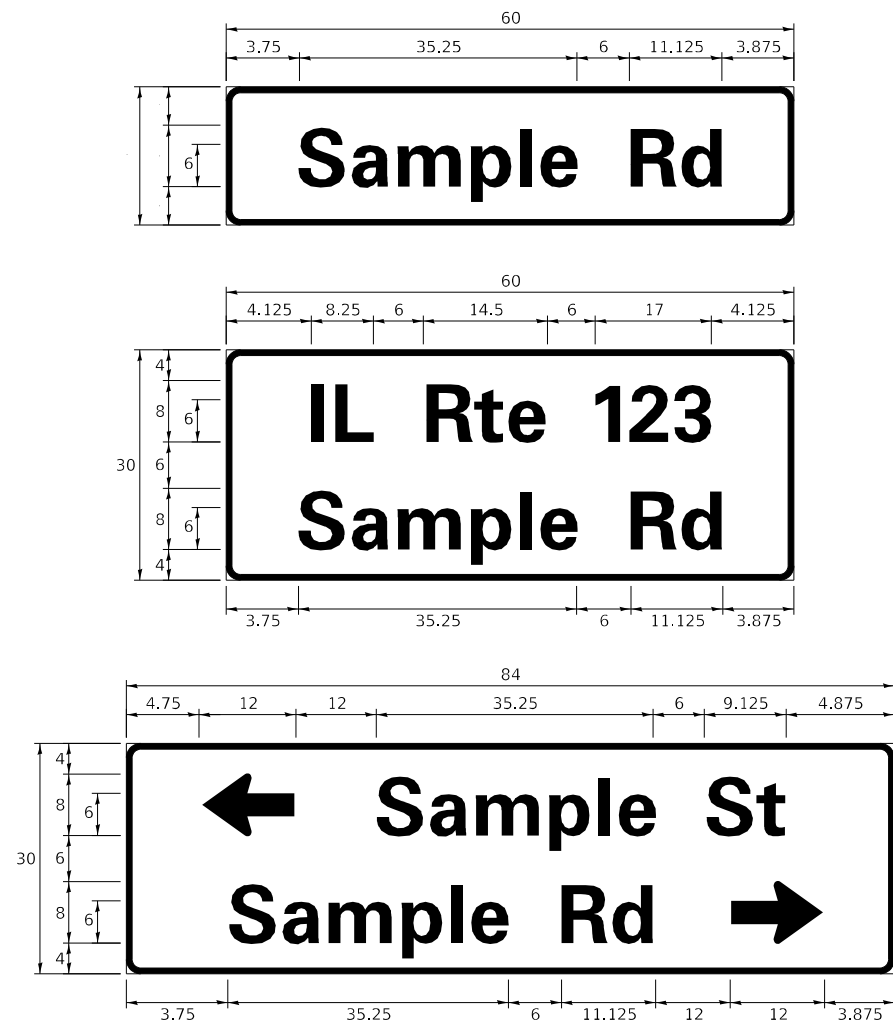
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	77
	TS-05			CONTRACT NO. 61H33
		ILLINOIS	FED. AID PROJECT	

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012. AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

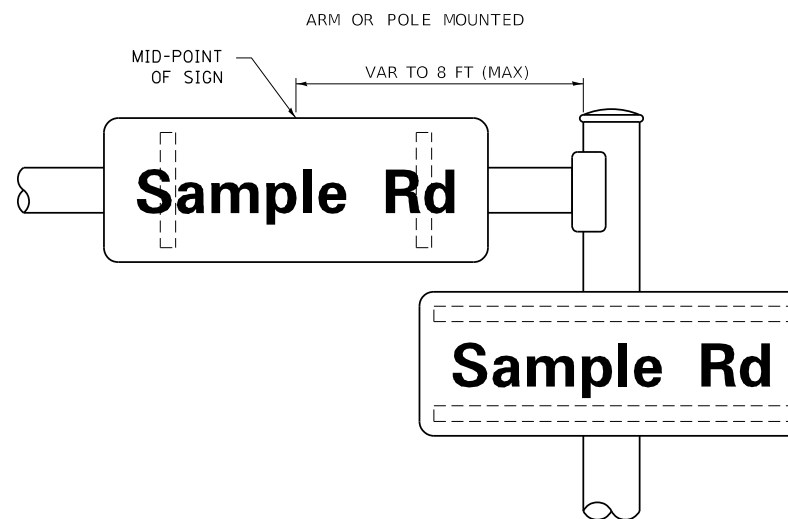
- I.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

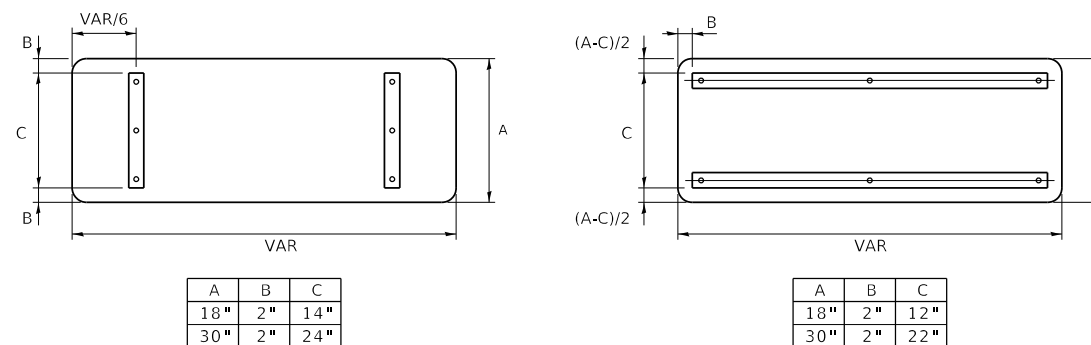
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

CHARACTER	FHWA SERIES "C"			CHARACTER	FHWA SERIES "D"		
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

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PLOT DATE - 3/4/2019	DATE - 10/01/2014	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	78
	TS-02	CONTRACT NO.	61H33	
	ILLINOIS	FED. AID PROJECT		

Benchmark: "X" cut at the easterly-most northern bolt of fire hydrant located on the south side of Park Ave. just east of Brook Estates Gate. Elev. 641.88.

Existing Structure: S.N. 049-6592 was originally built in 1950 as a single span W36 steel beam bridge with a concrete deck. It had a 28'-0" out-to-out width and is supported on reinforced concrete wall abutments on piles. In 1984 the bridge was widened to 62'-2" out-to-out under section 82-00086-01-WR. The total length of the bridge is 69'-0" from back to back of abutments. The bridge has approximately 25' long cast-in-place T-type wingwalls supported on piles. The bridge will be removed and replaced using staged construction.

Salvage: None.

WATERWAY INFORMATION

Drainage Area = 17.36 Sq. Miles		Existing Overtopping Elev. = 643.17 at Sta. 649+00		Proposed Overtopping Elev. = 643.52 at Sta. 649+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design	10	850	468.1 575.1	637.75 637.75	0.00 0.00	637.75 637.75
Base	30	1255	520.8 639.8	638.60 638.60	0.00 0.00	638.60 638.60
Overtopping	100	1689	554.9 700.0	639.44 639.44	0.06 0.00	639.50 639.39
Max. Calc.	500	2750	554.9 767.0	641.31 641.31	0.60 0.25	641.91 641.56

DESIGN STRESSES

FIELD UNITS
 f'c = 4,000 psi (Superstructure)
 f'c = 3,500 psi (Substructure)
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (M270 Grade 50)

HIGHWAY CLASSIFICATION

F.A.U. Rte. 1255 (Park Avenue West)
 Functional Class: Minor Arterial
 ADT: 12,015 (2015); 12,900 (2040)
 ADTT: 3%
 DHV: 1290 (2040)
 Design Speed: 35 m.p.h.
 Posted Speed: 35 m.p.h.
 Two-Way Traffic
 Directional Distribution: 50:50

LOADING HL-93

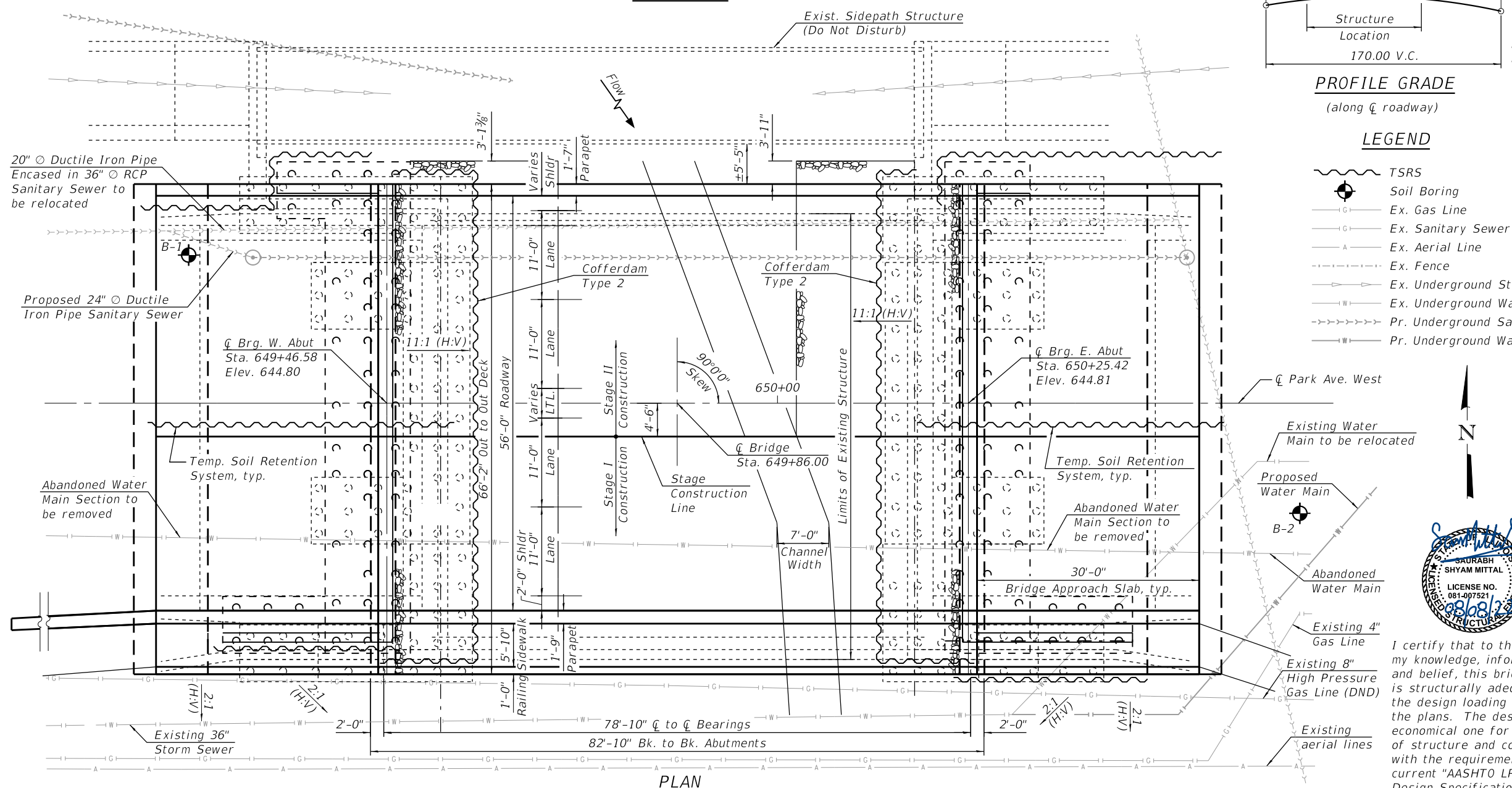
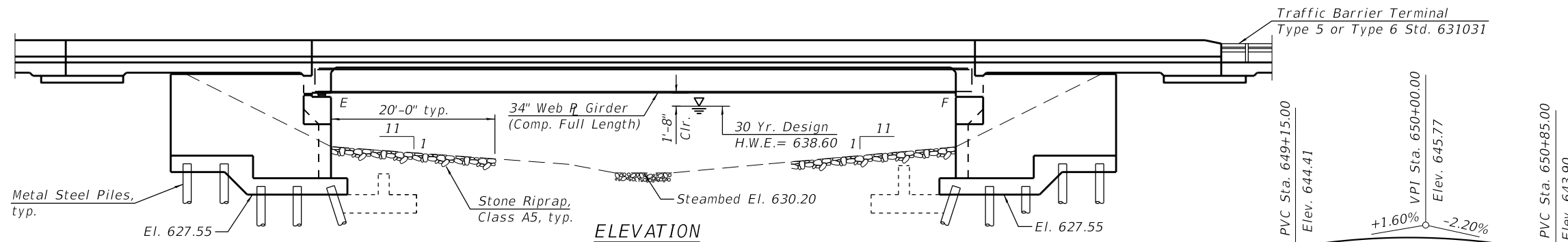
Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.092g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.130g
 Soil Site Class = D

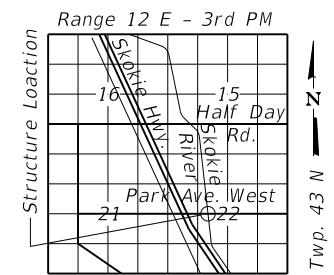
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Ed.



PROFILE GRADE
(along roadway)

- LEGEND**
- TSRS
 - Soil Boring
 - Ex. Gas Line
 - Ex. Sanitary Sewer
 - Ex. Aerial Line
 - Ex. Fence
 - Ex. Underground Storm Sewer
 - Ex. Underground Water Line
 - Pr. Underground Sanitary Sewer
 - Pr. Underground Water Line



LOCATION SKETCH

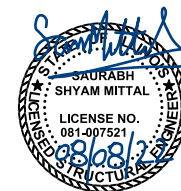
DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)			Item 113
State	W. Abut.	E. Abut.		
Q100	626.21	624.71		5
Q200	624.67	623.17		
Design	627.24	625.74		
Check	623.08	621.58		

GENERAL PLAN AND ELEVATION

**PARK AVENUE WEST OVER
 SKOKIE RIVER
 FAU ROUTE 1255
 SECTION 13-00122-00-BR
 LAKE COUNTY
 STATION 649+86.00
 STRUCTURE NO. 049-6593**

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



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USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - SSM	REVISED -
PLOT DATE =	DRAWN - CAB	REVISED -
	CHECKED - SSM	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	79
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

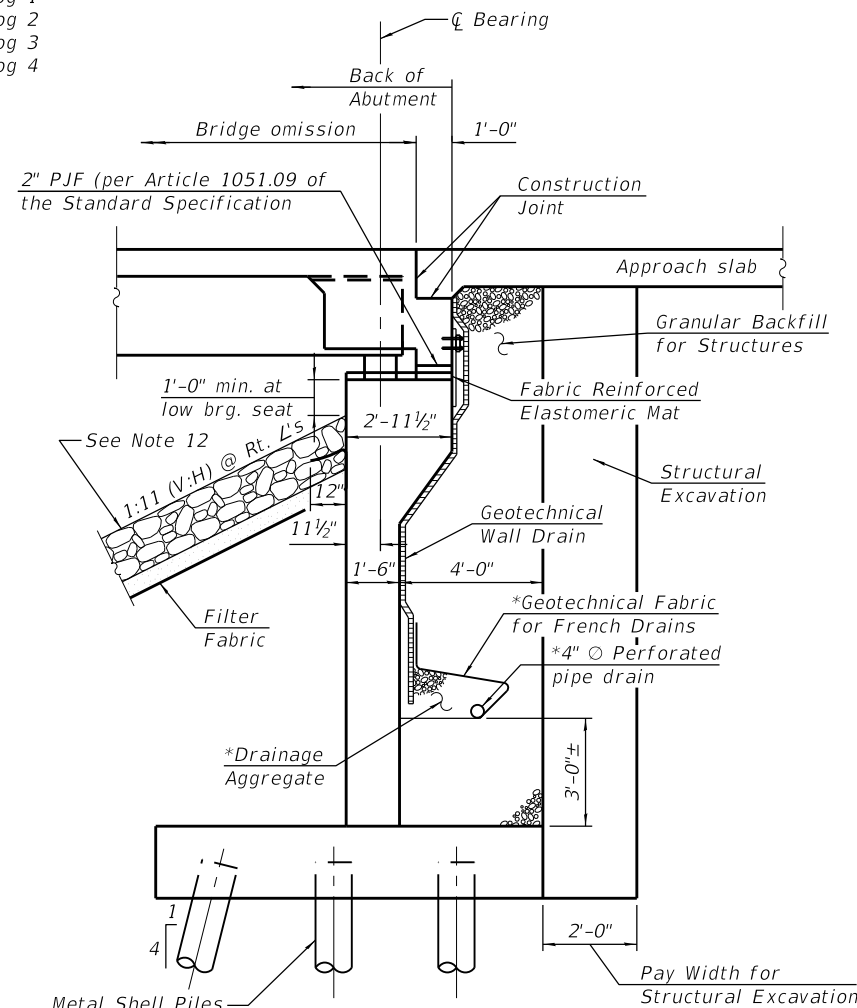
- Fasteners shall be ASTM F3125 Grade A325 Type 1. Fasteners shall be hot dipped galvanized. Bolt 7/8"Ø, holes 15/16"Ø unless otherwise noted.
- Calculated weight of Structural Steel = 117,700 lbs.
- All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."
- No field welding is permitted except as specified in the contract document
- Reinforcement bars designated (E) shall be epoxy coated
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The CONTRACTOR shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the CONTRACTOR will be paid for the quantity actually furnished at the unit price bid for the work
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The CONTRACTOR shall submit a temporary soil retention system design including plan details and calculation for review and acceptance by the ENGINEER.
- Ashlar stone form liner shall be used on all locations labeled with Form Liner Textured Surface.
- Concrete stain color A-HC149 "Siberian Haze" to be applied to all surfaces labeled with Staining Concrete Structures.
- Riprap to be placed after both abutments have been fully constructed. Cofferdam Location 1 refers to the cofferdam required to place riprap in the west side of the channel and Cofferdam Location 2 the riprap in the east side of the channel. ESWE = 634.20

INDEX OF SHEETS

- S-1 General Plan & Elevation
- S-2 General Notes, Bill Of Material & Index Of Sheets
- S-3 Structural Removal
- S-4 Stage Construction Details
- S-5 Temporary Concrete Barrier For Stage Construction
- S-6 Footing Layout
- S-7 Top Of Slab Elevations 1
- S-8 Top Of Slab Elevations 2
- S-9 Top Of Approach Slab Elevations 1
- S-10 Top Of Approach Slab Elevations 2
- S-11 Deck Plan And Cross Section
- S-12 Superstructure Details 1
- S-13 Diaphragm Details
- S-14 Bridge Approach Slab Details 1
- S-15 Bridge Approach Slab Details 2
- S-16 Decorative Railing 1
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- S-18 Framing Plan
- S-19 Steel Beam Details 1
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- S-21 Bearing Details
- S-22 West Abutment
- S-23 East Abutment
- S-24 Abutment Details
- S-25 Northwest Wingwall
- S-26 Southwest & Southeast Wingwall
- S-27 Northeast Wingwall
- S-28 Bar Splicer Assembly Detail
- S-29 Metal Shell Pile Details
- S-30 Boring Log 1
- S-31 Boring Log 2
- S-32 Boring Log 3
- S-33 Boring Log 4

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		56	56
Stone Riprap, Class A5	Sq. Yd.		336	336
Filter Fabric	Sq. Yd.		336	336
Removal Of Existing Structures	Each	0.5	0.5	1
Protective Shield	Sq. Yd.	1,051		1,051
Structure Excavation	Cu. Yd.		68	68
Cofferdam (Type 2) (Location - 1)	Each		1	1
Cofferdam (Type 2) (Location - 2)	Each		1	1
Cofferdam (Type 2) (Location - 3)	Each		1	1
Cofferdam (Type 2) (Location - 4)	Each		1	1
Concrete Structures	Cu. Yd.		311.9	311.9
Concrete Superstructure	Cu. Yd.	211.3		211.3
Bridge Deck Grooving	Sq. Yd.	845		845
Form Liner Textured Surface	Sq. Ft.	1,391		1,391
Protective Coat	Sq. Yd.	1,171		1,171
Concrete Superstructure (Approach Slab)	Cu. Yd.	183.8		183.8
Furnishing And Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,872		1,872
Reinforcement Bars, Epoxy Coated	Pound	124,030	30,510	154,540
Bar Splicers	Each	510	168	678
Decorative Railing (Deck Mounted)	Foot	141		141
Decorative Railing (Parapet Mounted)	Foot	141		141
Furnishing Metal Shell Piles 12" X 0.250"	Foot		3,098	3,098
Driving Piles	Foot		3,098	3,098
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		94	94
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each	8		8
Anchor Bolts, 3/4"	Each	32		32
Temporary Soil Retention System	Sq. Ft.		2,645	2,645
Granular Backfill For Structures	Cu. Yd.		250	250
Geocomposite Wall Drain	Sq. Yd.		204	204
Staining Concrete Structures	Sq. Ft.	1,560		1,560
Pipe Underdrains For Structures 4"	Foot		222	222

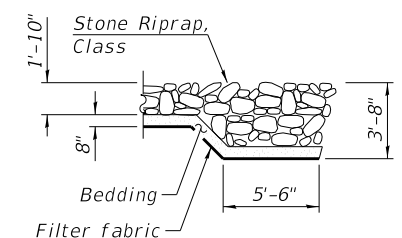


TYPICAL SECTION THRU SEMI-INTEGRAL ABUTMENT

*Included in Pipe Underdrains for Structure, 4"

SKOKIE RIVER
BUILT 202_ BY
CITY OF HIGHLAND PARK
SECTION 13-00122-00-BR
STA. 649+86.00
STR. NO. 049-6593
LOADING HL93

NAME PLATE
See Std. 515001



SECTION B-B

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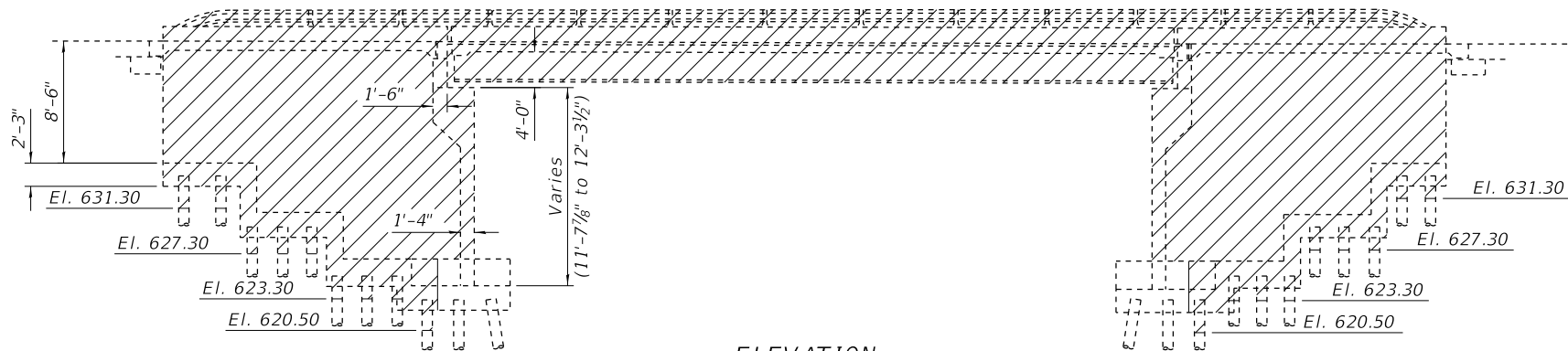
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PLOT DATE =	CHECKED - SSM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

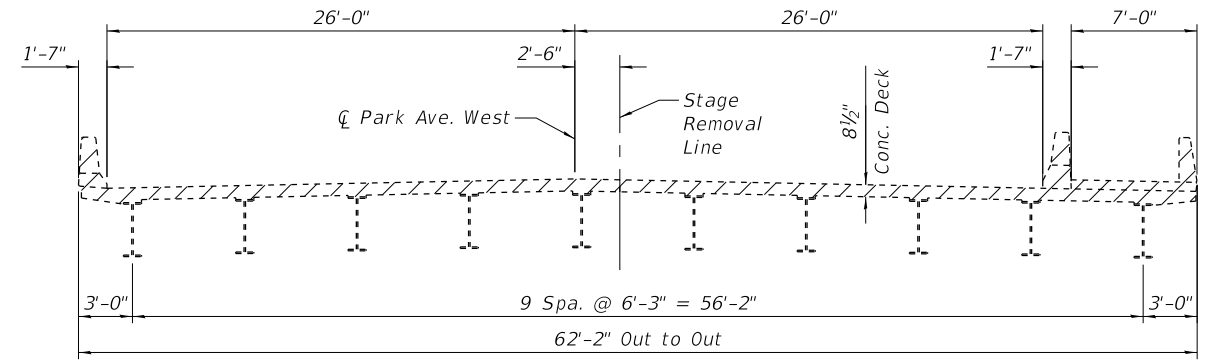
**GENERAL NOTES, BILL OF MATERIAL & INDEX OF SHEETS
STRUCTURE NO. 049-6593**

SHEET S-2 OF S-33 SHEETS

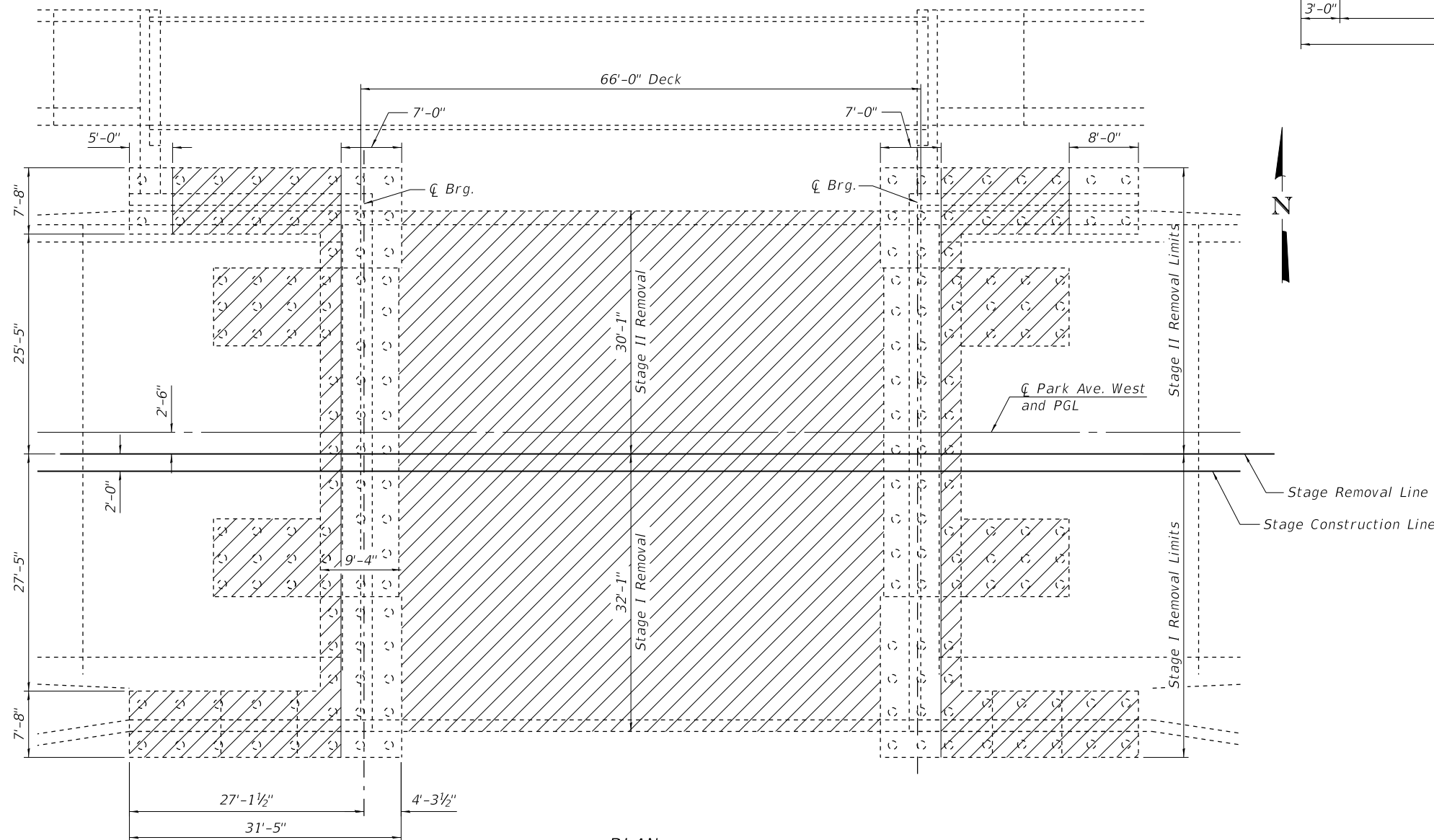
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	80
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	



ELEVATION



TYPICAL CROSS-SECTION



PLAN

BILL OF MATERIAL

ITEM	UNIT	SUB	SUPER
Removal of Existing Structures	Each	0.5	0.5
Protective Shield	Sq. Yd.		1051

Note: All railing removal is included with Removal of Existing Structures.

LEGEND

Structure Removal

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3/2/2022 3:46:28 PM



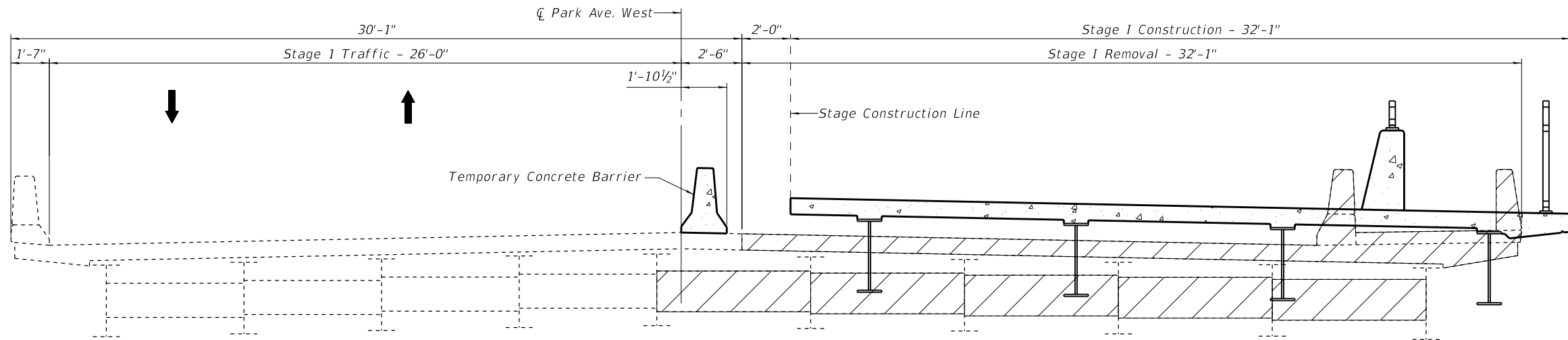
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PLOT SCALE =	CHECKED - SSM	REVISED -
PLOT DATE =	DRAWN - CAB	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

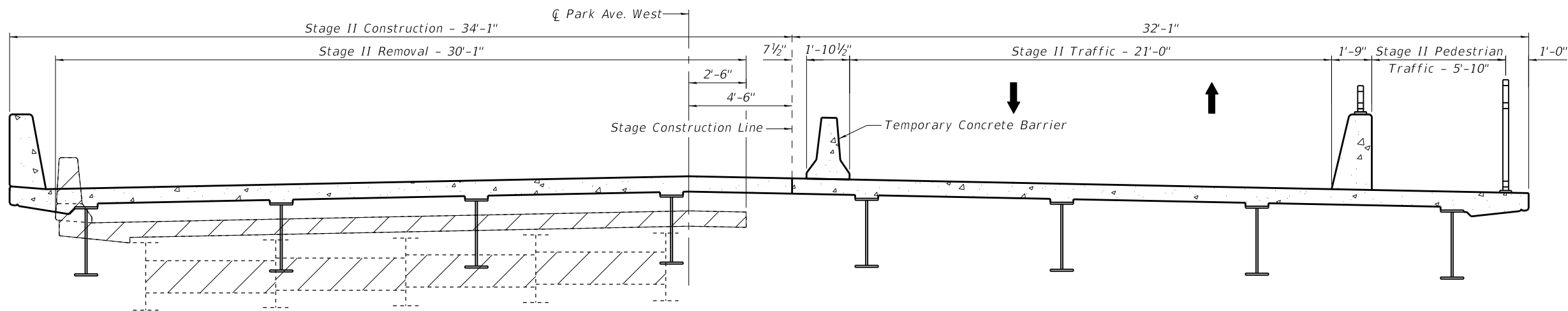
**STRUCTURE REMOVAL
STRUCTURE NO. 049-6593**

SHEET S-3 OF S-33 SHEETS

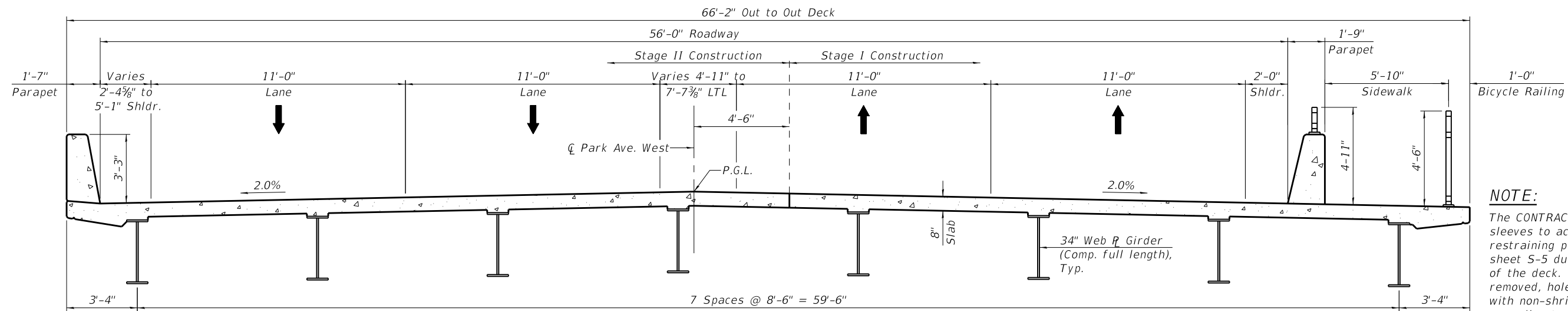
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	81
			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



STAGE I REMOVAL AND CONSTRUCTION
(Looking East)



STAGE II REMOVAL AND CONSTRUCTION
(Looking East)



PROPOSED CROSS SECTION
(Looking East)

LEGEND

Existing Structure Removal

NOTE:

The CONTRACTOR shall install sleeves to accommodate 1" \varnothing restraining pins as shown on sheet S-5 during placement of the deck. After pins are removed, holes shall be filled with non-shrink grout according to article 1024.02 of the Standard Specifications. Cost included with Concrete Superstructure.

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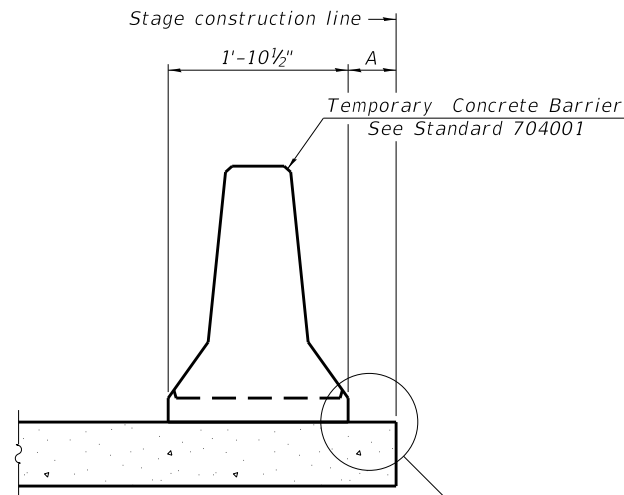
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PLOT DATE =	CHECKED - SSM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED CONSTRUCTION DETAILS
STRUCTURE NO. 049-6593

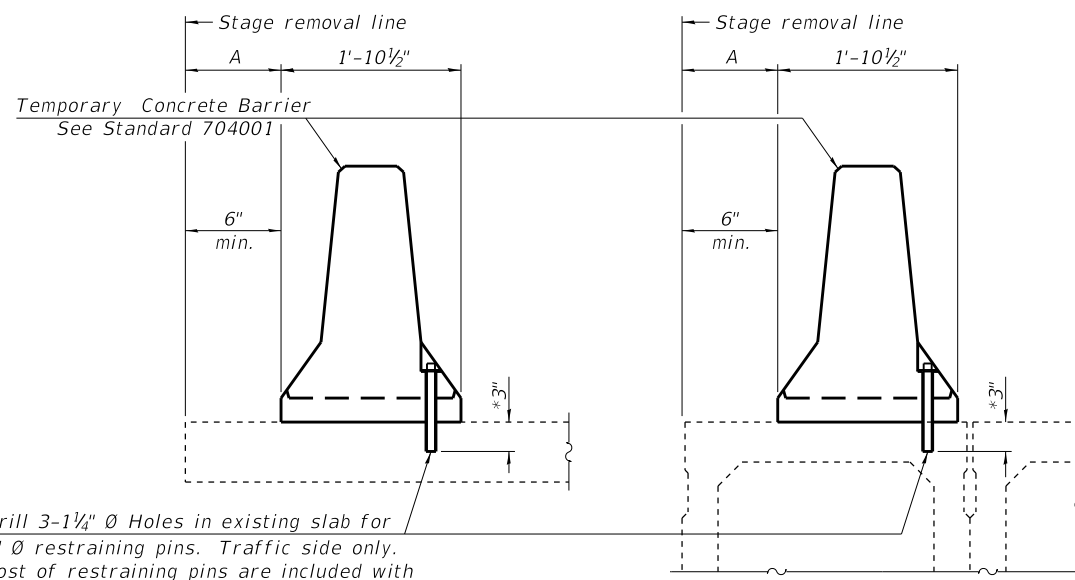
SHEET S-4 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	82
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

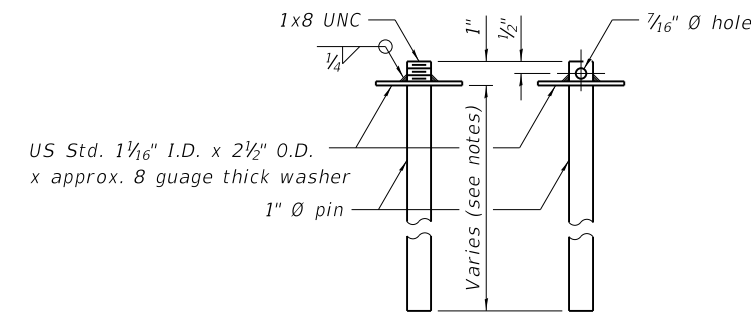


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

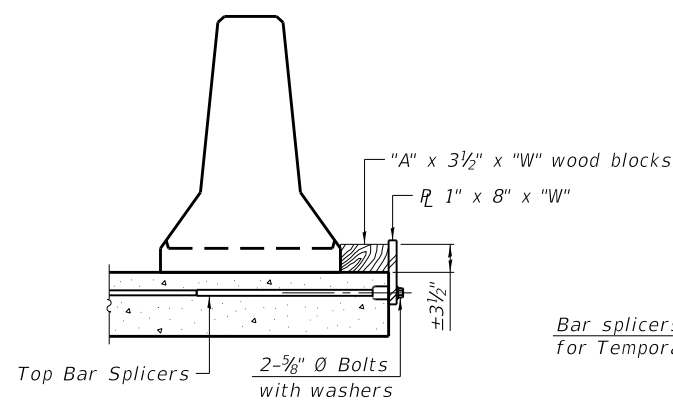
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM



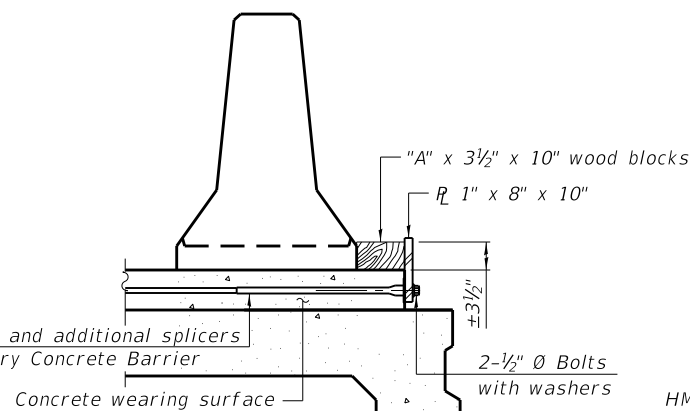
RESTRAINING PIN

SECTIONS THRU SLAB OR DECK BEAM

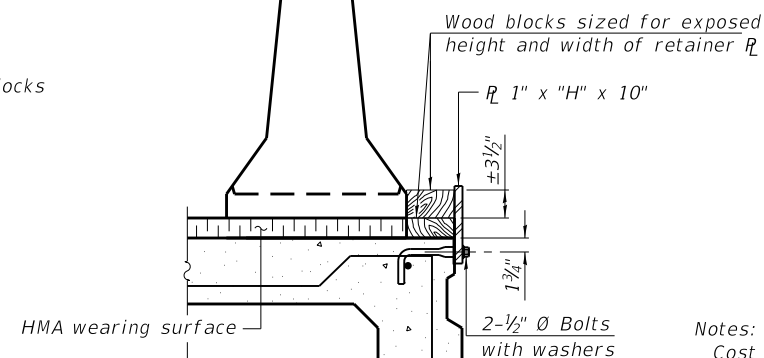


DETAIL I

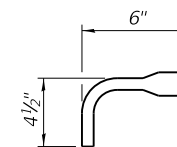
Bar splicers and additional splicers for Temporary Concrete Barrier



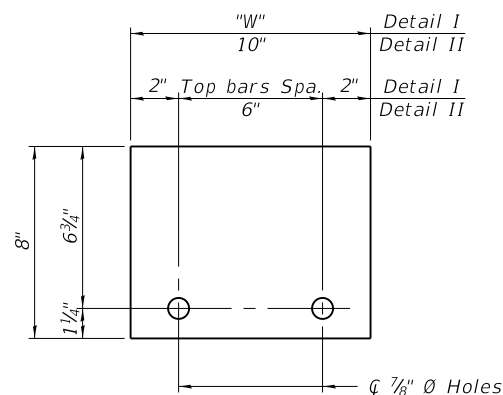
DETAIL II



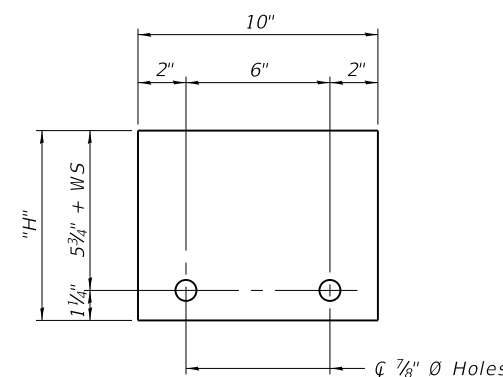
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
 Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
 Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

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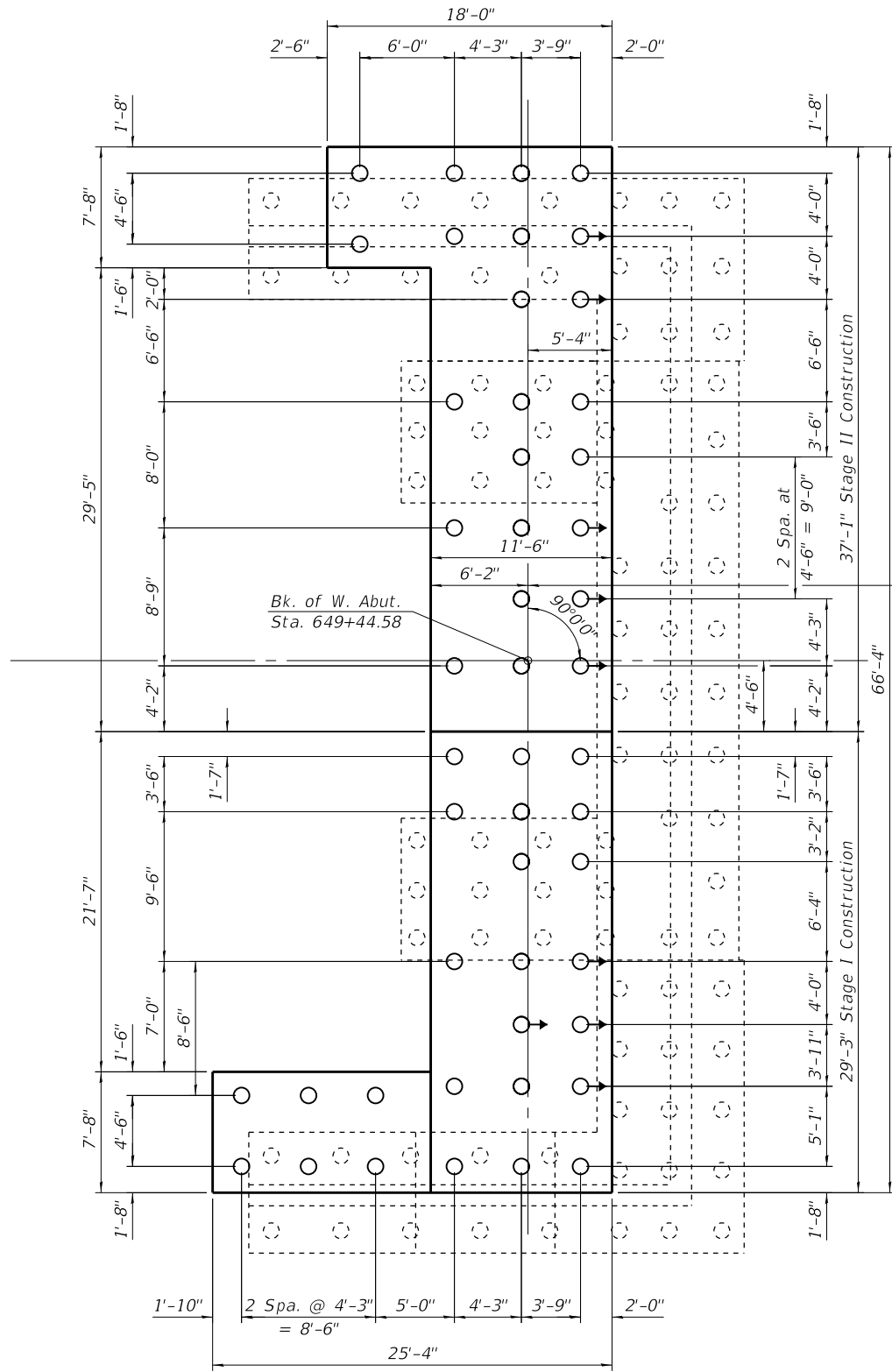
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

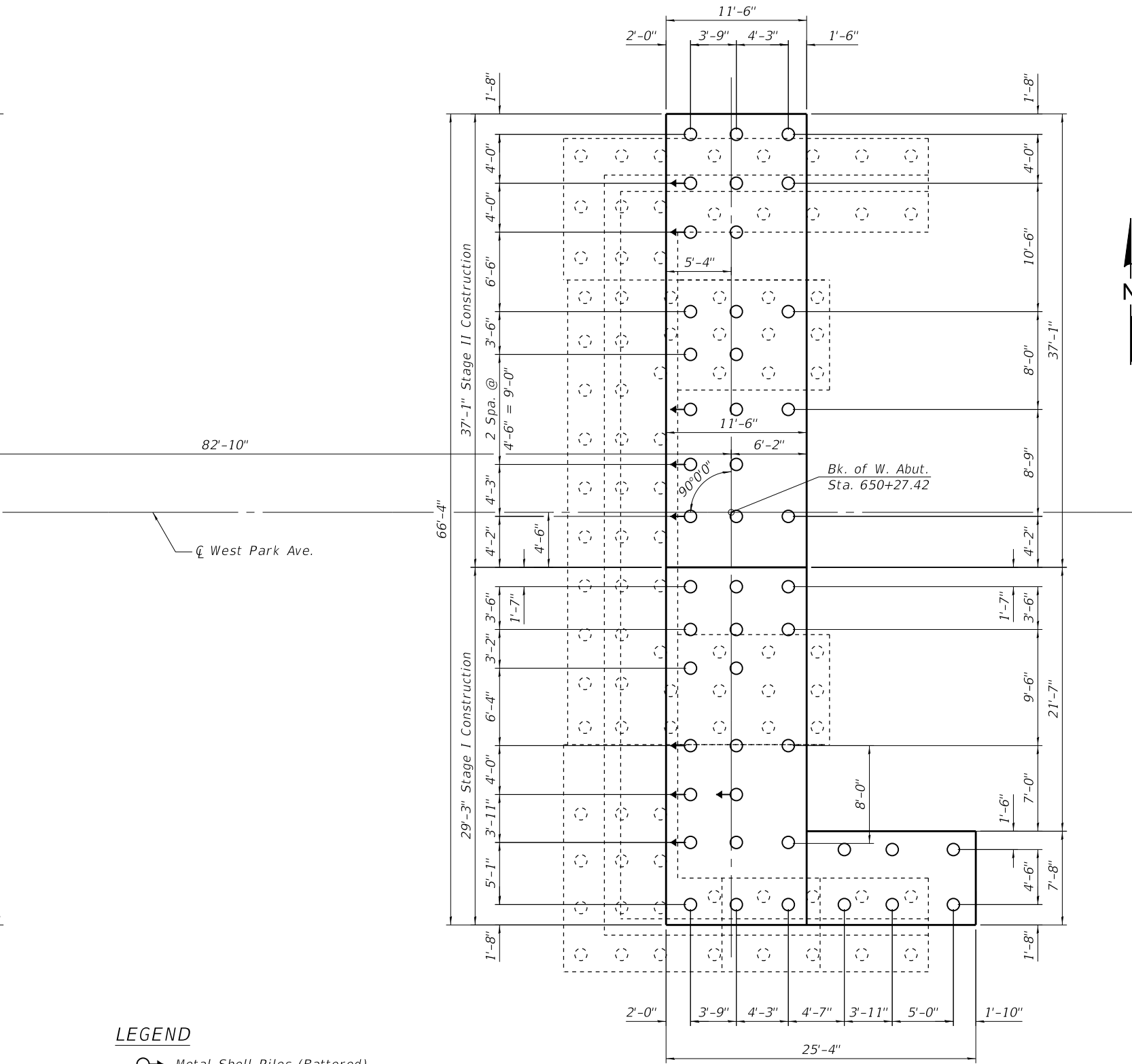
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 049-6593

SHEET S-5 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	83
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	



WEST ABUTMENT FOOTING



EAST ABUTMENT FOOTING

LEGEND

- ➔ Metal Shell Piles (Battered)
- Metal Shell Piles
- ⊖ Existing Piles

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOOTING LAYOUT
STRUCTURE NO. 049-6593

SHEET S-6 OF S-33 SHEETS

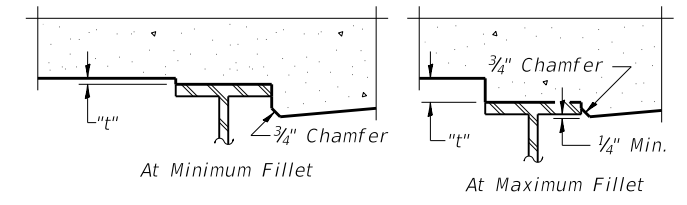
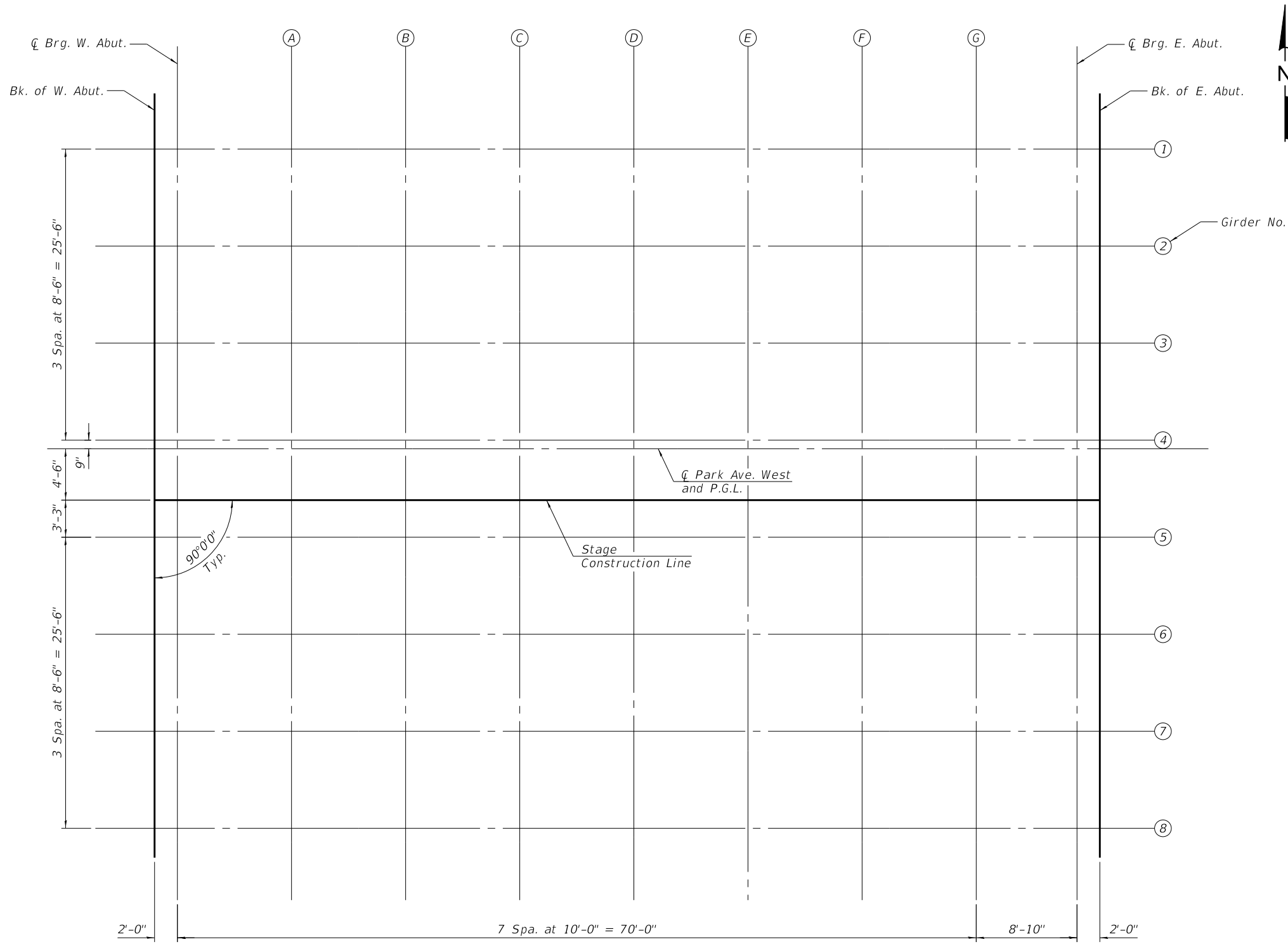
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	84
CONTRACT NO. 61H33				

ILLINOIS FED. AID PROJECT

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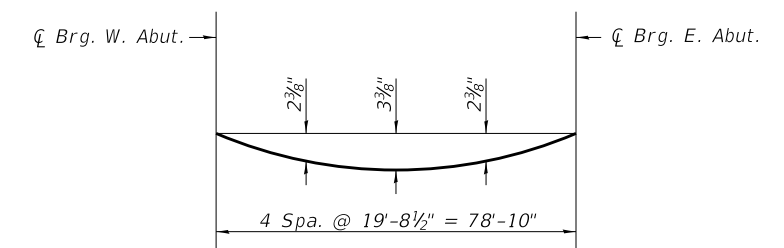


USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - SSM	REVISED -
PLOT DATE =	DRAWN - CAB	REVISED -
	CHECKED - SSM	REVISED -



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet S-8. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

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 below.

PLAN

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USER NAME =	DESIGNED - JSR	REVISED -
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PLOT DATE =	DRAWN - CAB	REVISED -
	CHECKED - SSM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS 1
STRUCTURE NO. 049-6593**

SHEET S-7 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	85
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	-26.25	644.26	644.26
CL Brg. W. Abt.	649+46.58	-26.25	644.28	644.28
A	649+56.58	-26.25	644.36	644.45
B	649+66.58	-26.25	644.41	644.58
C	649+76.58	-26.25	644.45	644.66
D	649+86.58	-26.25	644.46	644.69
E	649+96.58	-26.25	644.45	644.65
F	650+06.58	-26.25	644.41	644.57
G	650+16.58	-26.25	644.36	644.44
CL Brg. E. Abt.	650+25.41	-26.25	644.29	644.29
Bk. E. Abt.	650+27.42	-26.25	644.27	644.27

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	-17.75	644.43	644.43
CL Brg. W. Abt.	649+46.58	-17.75	644.45	644.45
A	649+56.58	-17.75	644.53	644.64
B	649+66.58	-17.75	644.58	644.79
C	649+76.58	-17.75	644.62	644.88
D	649+86.58	-17.75	644.63	644.91
E	649+96.58	-17.75	644.62	644.87
F	650+06.58	-17.75	644.58	644.78
G	650+16.58	-17.75	644.53	644.63
CL Brg. E. Abt.	650+25.41	-17.75	644.46	644.46
Bk. E. Abt.	650+27.42	-17.75	644.44	644.44

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	-9.25	644.60	644.60
CL Brg. W. Abt.	649+46.58	-9.25	644.62	644.62
A	649+56.58	-9.25	644.70	644.81
B	649+66.58	-9.25	644.75	644.96
C	649+76.58	-9.25	644.79	645.05
D	649+86.58	-9.25	644.80	645.08
E	649+96.58	-9.25	644.79	645.04
F	650+06.58	-9.25	644.75	644.95
G	650+16.58	-9.25	644.70	644.80
CL Brg. E. Abt.	650+25.41	-9.25	644.63	644.63
Bk. E. Abt.	650+27.42	-9.25	644.61	644.61

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	-0.75	644.77	644.77
CL Brg. W. Abt.	649+46.58	-0.75	644.79	644.79
A	649+56.58	-0.75	644.87	644.98
B	649+66.58	-0.75	644.92	645.13
C	649+76.58	-0.75	644.96	645.22
D	649+86.58	-0.75	644.97	645.25
E	649+96.58	-0.75	644.96	645.21
F	650+06.58	-0.75	644.92	645.12
G	650+16.58	-0.75	644.87	644.97
CL Brg. E. Abt.	650+25.41	-0.75	644.80	644.80
Bk. E. Abt.	650+27.42	-0.75	644.78	644.78

PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	0.00	644.79	644.79
CL Brg. W. Abt.	649+46.58	0.00	644.80	644.80
A	649+56.58	0.00	644.88	644.99
B	649+66.58	0.00	644.94	645.14
C	649+76.58	0.00	644.97	645.23
D	649+86.58	0.00	644.98	645.27
E	649+96.58	0.00	644.97	645.23
F	650+06.58	0.00	644.94	645.13
G	650+16.58	0.00	644.88	644.98
CL Brg. E. Abt.	650+25.41	0.00	644.81	644.81
Bk. E. Abt.	650+27.42	0.00	644.80	644.80

STAGED CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	4.50	644.70	644.70
CL Brg. W. Abt.	649+46.58	4.50	644.71	644.71
A	649+56.58	4.50	644.79	644.90
B	649+66.58	4.50	644.85	645.05
C	649+76.58	4.50	644.88	645.14
D	649+86.58	4.50	644.89	645.18
E	649+96.58	4.50	644.88	645.14
F	650+06.58	4.50	644.85	645.04
G	650+16.58	4.50	644.79	644.89
CL Brg. E. Abt.	650+25.41	4.50	644.72	644.72
Bk. E. Abt.	650+27.42	4.50	644.71	644.71

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	7.75	644.63	644.63
CL Brg. W. Abt.	649+46.58	7.75	644.65	644.65
A	649+56.58	7.75	644.73	644.84
B	649+66.58	7.75	644.78	644.99
C	649+76.58	7.75	644.82	645.08
D	649+86.58	7.75	644.83	645.11
E	649+96.58	7.75	644.82	645.07
F	650+06.58	7.75	644.78	644.98
G	650+16.58	7.75	644.73	644.83
CL Brg. E. Abt.	650+25.41	7.75	644.66	644.66
Bk. E. Abt.	650+27.42	7.75	644.64	644.64

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	16.25	644.46	644.46
CL Brg. W. Abt.	649+46.58	16.25	644.48	644.48
A	649+56.58	16.25	644.56	644.67
B	649+66.58	16.25	644.61	644.82
C	649+76.58	16.25	644.65	644.91
D	649+86.58	16.25	644.66	644.94
E	649+96.58	16.25	644.65	644.90
F	650+06.58	16.25	644.61	644.81
G	650+16.58	16.25	644.56	644.66
CL Brg. E. Abt.	650+25.41	16.25	644.49	644.49
Bk. E. Abt.	650+27.42	16.25	644.47	644.47

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	24.75	644.29	644.29
CL Brg. W. Abt.	649+46.58	24.75	644.31	644.31
A	649+56.58	24.75	644.39	644.50
B	649+66.58	24.75	644.44	644.65
C	649+76.58	24.75	644.48	644.74
D	649+86.58	24.75	644.49	644.77
E	649+96.58	24.75	644.48	644.73
F	650+06.58	24.75	644.44	644.64
G	650+16.58	24.75	644.39	644.49
CL Brg. E. Abt.	650+25.41	24.75	644.32	644.32
Bk. E. Abt.	650+27.42	24.75	644.30	644.30

GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abt.	649+44.58	33.25	644.12	644.12
CL Brg. W. Abt.	649+46.58	33.25	644.14	644.14
A	649+56.58	33.25	644.22	644.31
B	649+66.58	33.25	644.27	644.44
C	649+76.58	33.25	644.31	644.52
D	649+86.58	33.25	644.32	644.55
E	649+96.58	33.25	644.31	644.51
F	650+06.58	33.25	644.27	644.43
G	650+16.58	33.25	644.22	644.30
CL Brg. E. Abt.	650+25.41	33.25	644.15	644.15
Bk. E. Abt.	650+27.42	33.25	644.13	644.13

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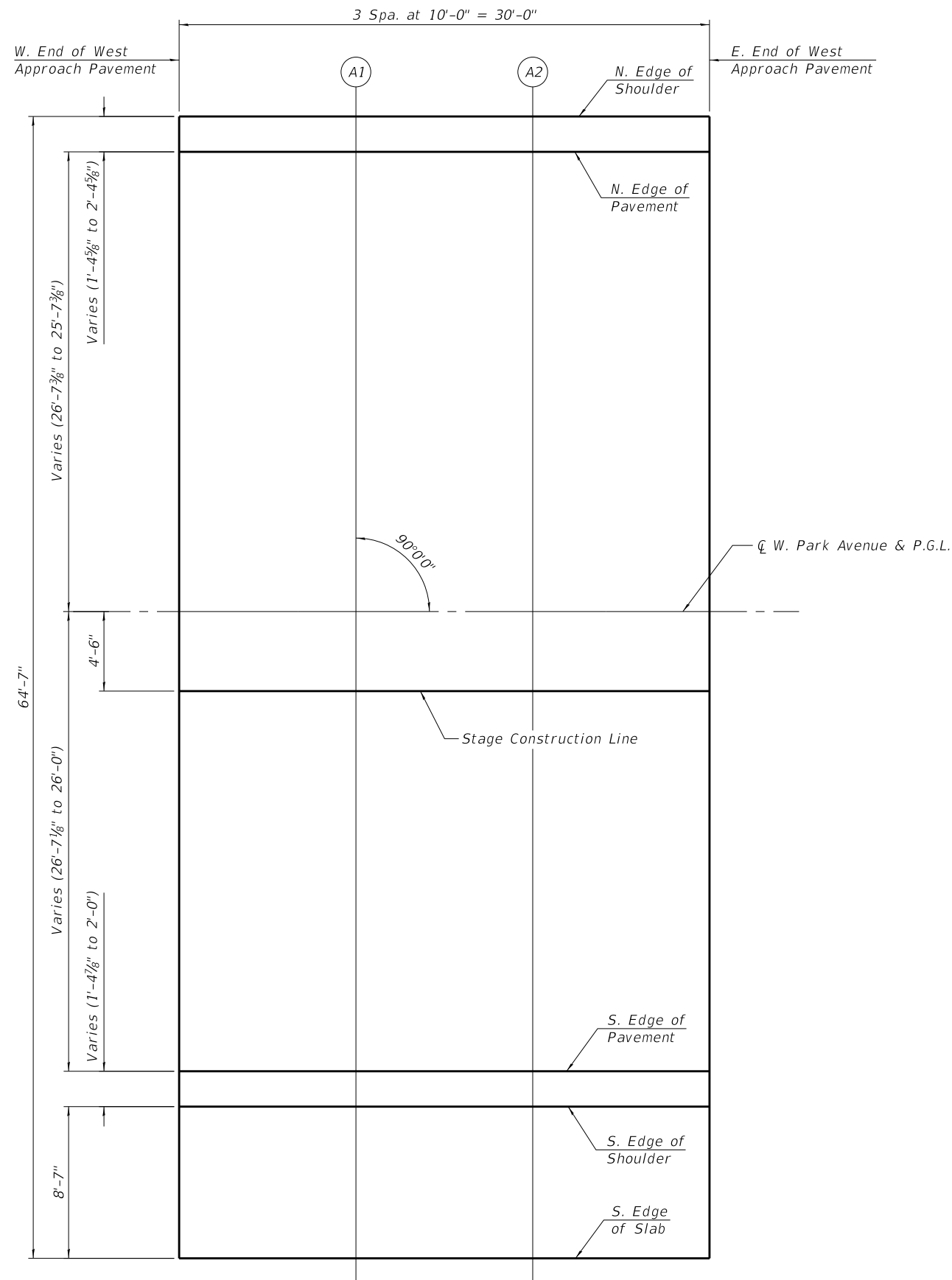


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	CHECKED - SSM	REVISED -
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PLOT DATE =	CHECKED - SSM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS 2
STRUCTURE NO. 049-6593**

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	86
CONTRACT NO. 61H33				
SHEET S-8 OF S-33 SHEETS				
ILLINOIS FED. AID PROJECT				



PLAN

N. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt	649+15.58	-28.00	643.86
A1	649+25.58	-28.00	644.01
A2	649+35.58	-28.00	644.13
E. End of W. Appr. Pvmt	649+45.58	-28.00	644.23

N. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt	649+15.58	-26.61	643.89
A1	649+25.58	-26.28	644.04
A2	649+35.58	-25.95	644.17
E. End of W. Appr. Pvmt	649+45.58	-25.61	644.28

∅ ROADWAY AND PGL

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt	649+15.58	0.00	644.42
A1	649+25.58	0.00	644.57
A2	649+35.58	0.00	644.69
E. End of W. Appr. Pvmt	649+45.58	0.00	644.79

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt	649+15.58	4.50	644.33
A1	649+25.58	4.50	644.48
A2	649+35.58	4.50	644.60
E. End of W. Appr. Pvmt	649+45.58	4.50	644.70

S. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt	649+15.58	26.59	643.89
A1	649+25.58	26.26	644.04
A2	649+35.58	26.00	644.17
E. End of W. Appr. Pvmt	649+45.58	26.00	644.27

S. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt	649+15.58	28.00	643.86
A1	649+25.58	28.00	644.01
A2	649+35.58	28.00	644.13
E. End of W. Appr. Pvmt	649+45.58	28.00	644.23

S. EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Pvmt	649+15.58	36.58	643.69
A1	649+25.58	36.58	643.84
A2	649+35.58	36.58	643.96
E. End of W. Appr. Pvmt	649+45.58	36.58	644.06

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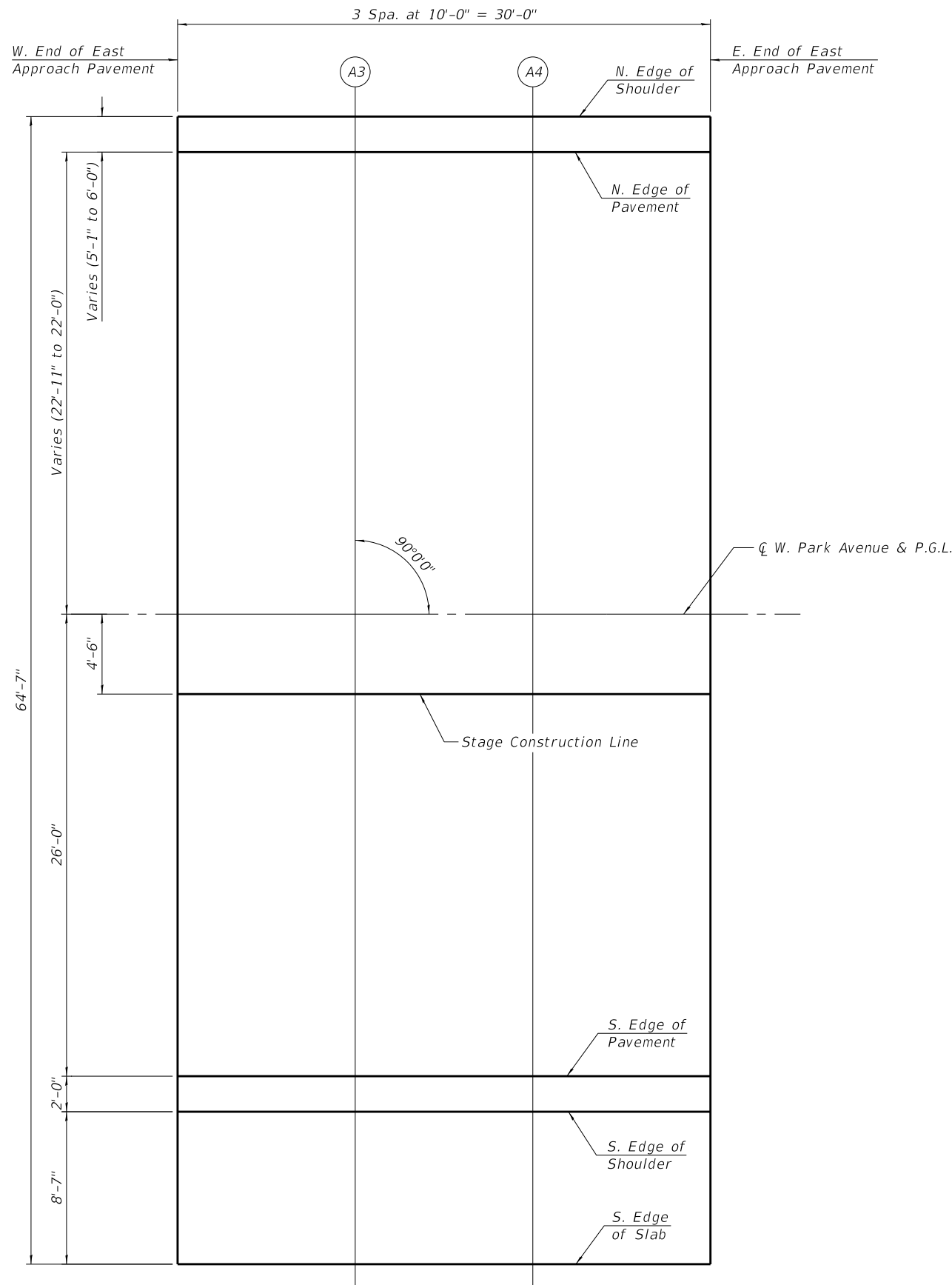
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS 1
STRUCTURE NO. 049-6593

SHEET S-9 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	87
			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



PLAN

N. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt	650+26.42	-28.00	644.25
A1	650+36.42	-28.00	644.14
A2	650+46.42	-28.00	644.02
E. End of E. Appr. Pvmt	650+56.42	-28.00	643.88

N. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt	650+26.42	-22.92	644.35
A1	650+36.42	-22.59	644.25
A2	650+46.42	-22.25	644.14
E. End of E. Appr. Pvmt	650+56.42	-22.00	644.00

CL ROADWAY AND PGL

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt	650+26.42	0.00	644.81
A1	650+36.42	0.00	644.70
A2	650+46.42	0.00	644.58
E. End of E. Appr. Pvmt	650+56.42	0.00	644.44

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt	650+26.42	4.50	644.72
A1	650+36.42	4.50	644.61
A2	650+46.42	4.50	644.49
E. End of E. Appr. Pvmt	650+56.42	4.50	644.35

S. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt	650+26.42	26.00	644.29
A1	650+36.42	26.00	644.18
A2	650+46.42	26.00	644.06
E. End of E. Appr. Pvmt	650+56.42	26.00	643.92

S. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt	650+26.42	28.00	644.25
A1	650+36.42	28.00	644.14
A2	650+46.42	28.00	644.02
E. End of E. Appr. Pvmt	650+56.42	28.00	643.88

S. EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Pvmt	650+26.42	36.58	644.07
A1	650+36.42	36.58	643.97
A2	650+46.42	36.58	643.85
E. End of E. Appr. Pvmt	650+56.42	36.58	643.71

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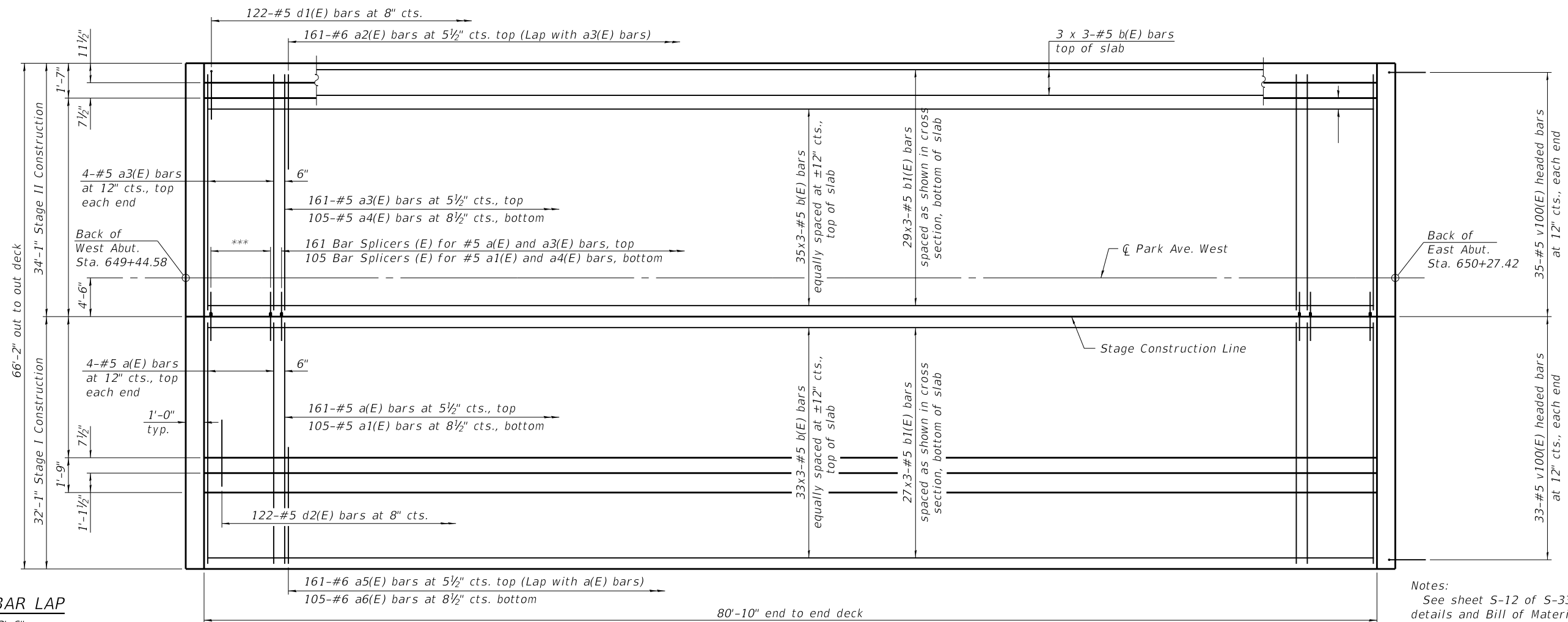
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS 2
STRUCTURE NO. 049-6593

SHEET S-10 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	



MINIMUM BAR LAP

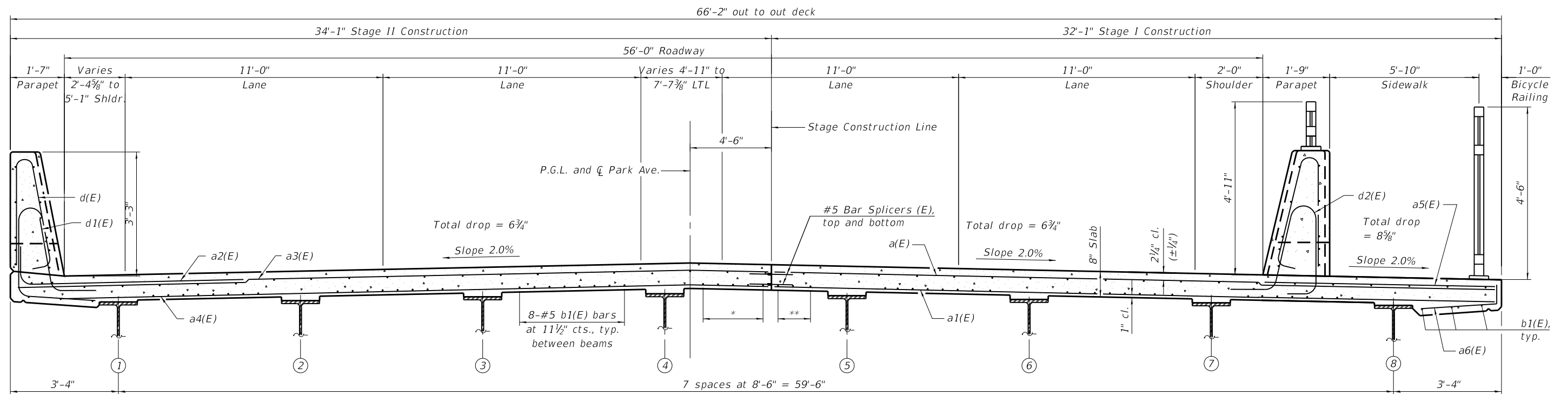
#5 bar = 3'-6"
 #6 bar = 4'-10"

*** 4-#5 bar splicers (E) at 12" cts., top each end

80'-10" end to end deck

PLAN

Notes:
 See sheet S-12 of S-33 for superstructure details and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION

(Looking East)

* 5-#5 b1(E) bars at 11 1/2" cts., typ.
 ** 3-#5 b1(E) bars at 11 1/2" cts., typ.

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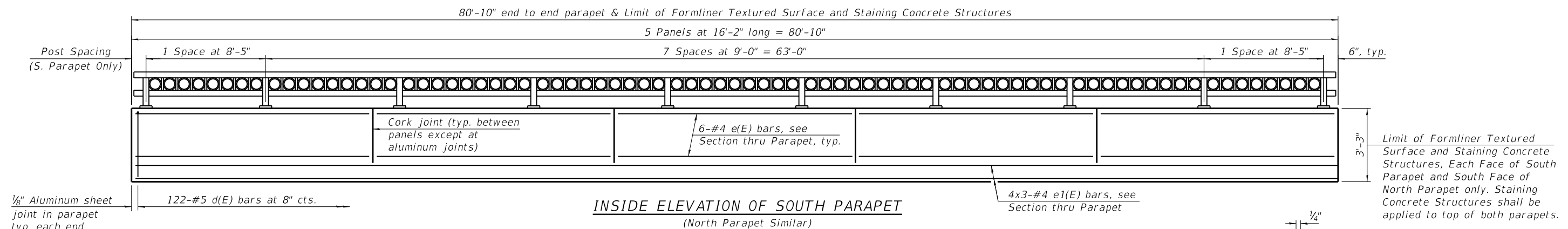
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

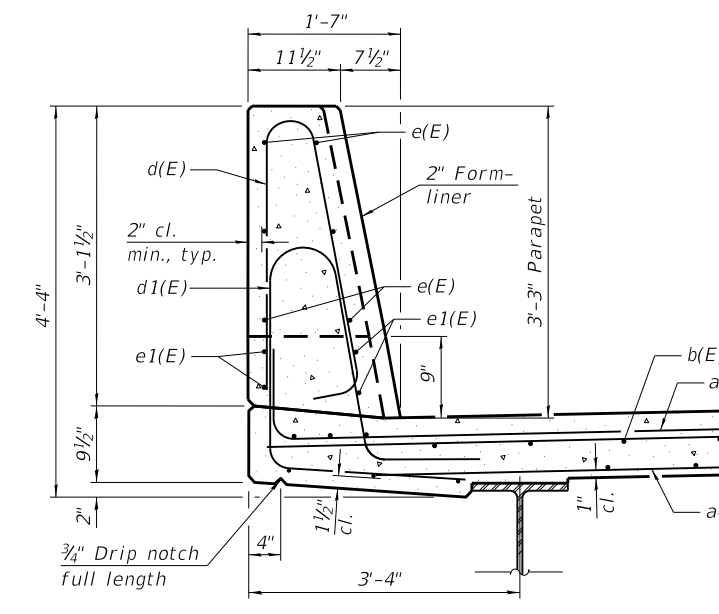
DECK PLAN AND CROSS SECTION
 STRUCTURE NO. 049-6593

SHEET S-11 OF S-33 SHEETS

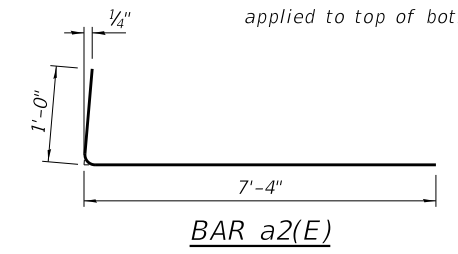
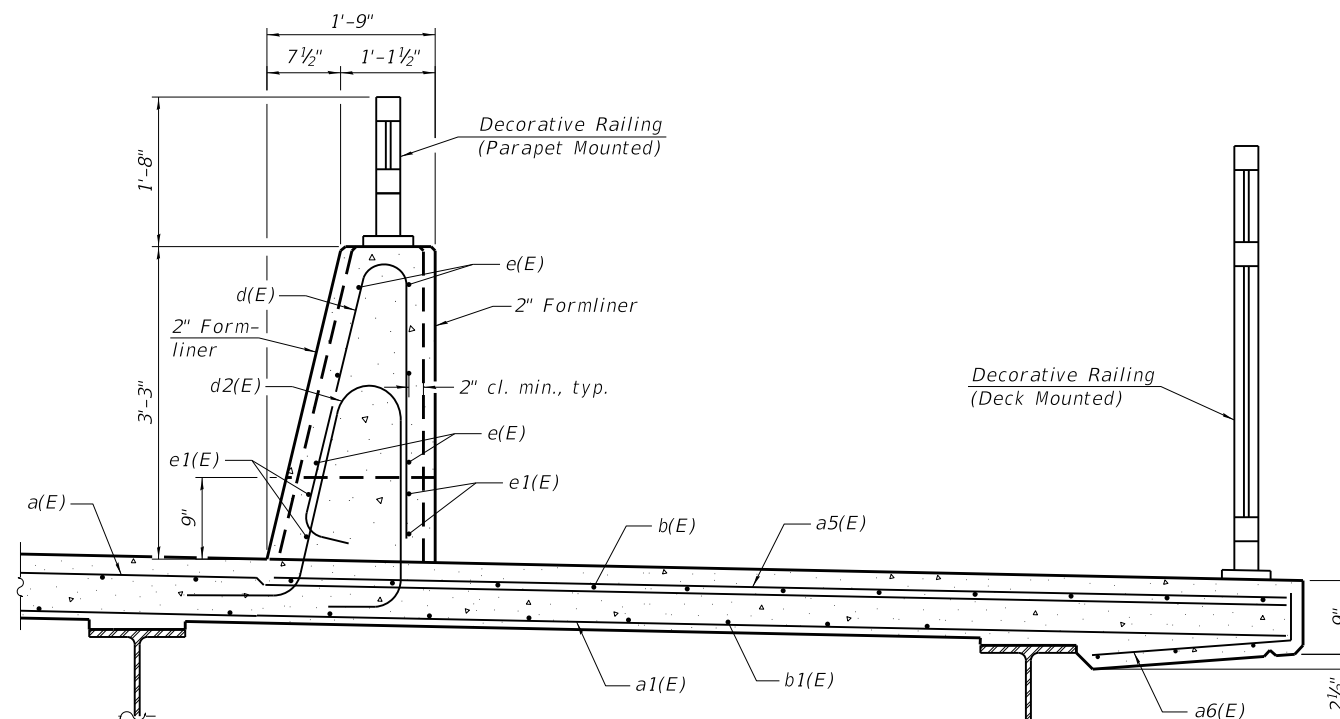
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CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	



MINIMUM BAR LAP
#4 bar = 2'-5"

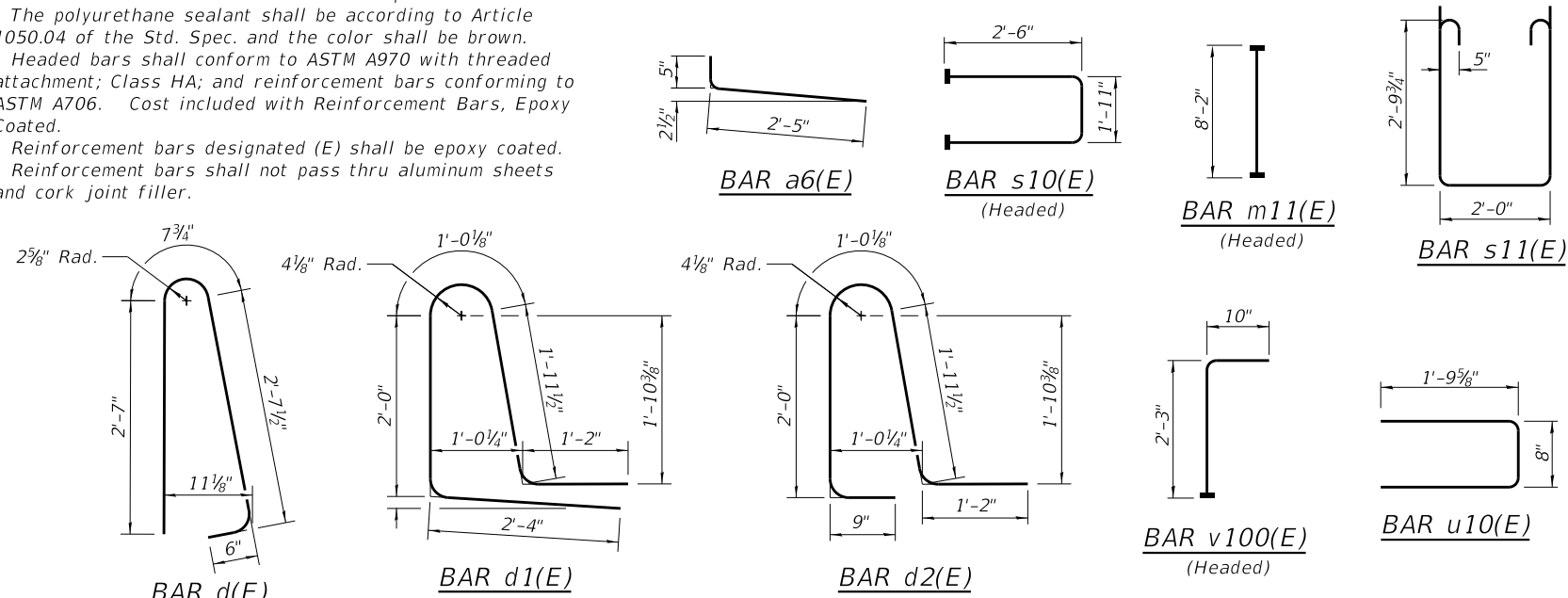
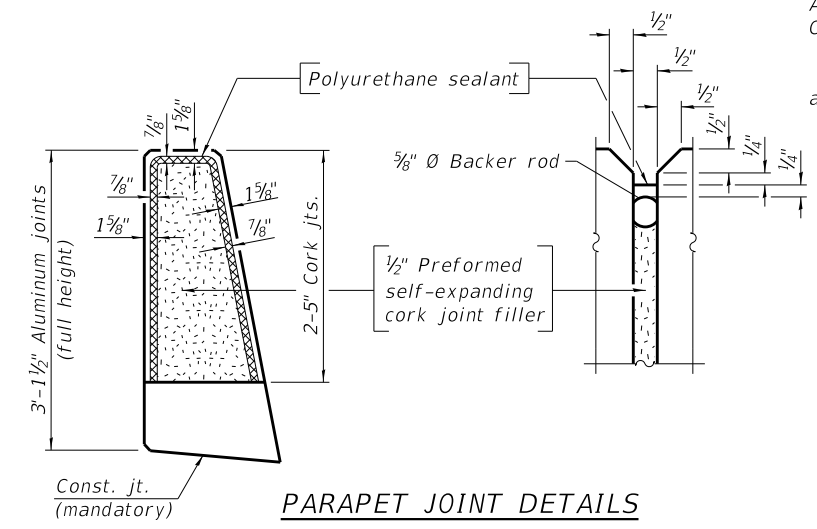


Notes:
The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be brown.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
Reinforcement bars designated (E) shall be epoxy coated. Reinforcement bars shall not pass thru aluminum sheets and cork joint filler.



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	169	#5	32'-1"	—
a1(E)	105	#5	32'-1"	—
a2(E)	161	#6	8'-4"	—
a3(E)	169	#5	34'-1"	—
a4(E)	105	#5	34'-1"	—
a5(E)	161	#6	13'-4"	—
a6(E)	105	#6	2'-10"	—
b(E)	213	#5	29'-6"	—
b1(E)	168	#5	29'-6"	—
d(E)	244	#5	6'-5"	—
d1(E)	122	#5	8'-6"	—
d2(E)	122	#5	6'-11"	—
e(E)	60	#4	15'-10"	—
e1(E)	24	#4	28'-9"	—
v100(E)	136	#5	3'-1"	—
m11(E)	28	#6	8'-2"	—
m12(E)	36	#6	8'-2"	—
m13(E)	10	#6	32'-1"	—
m14(E)	20	#6	3'-0"	—
m15(E)	4	#4	32'-1"	—
m18(E)	10	#6	34'-1"	—
m19(E)	4	#4	34'-1"	—
m21(E)	6	#6	4'-11"	—
m22(E)	6	#6	2'-11"	—
s10(E)	124	#5	6'-11"	—
s11(E)	124	#5	8'-9"	—
u10(E)	124	#4	4'-3"	—
Concrete Superstructure		Cu. Yd.	195.7	
Bridge Deck Grooving		Sq. Yd.	485	
Protective Coat		Sq. Yd.	672	
Reinforcement Bars, Epoxy Coated		Pound	45,950	
Form Liner Textured Surface		Sq. Ft.	798	
Staining Concrete Superstructures		Sq. Ft.	967	



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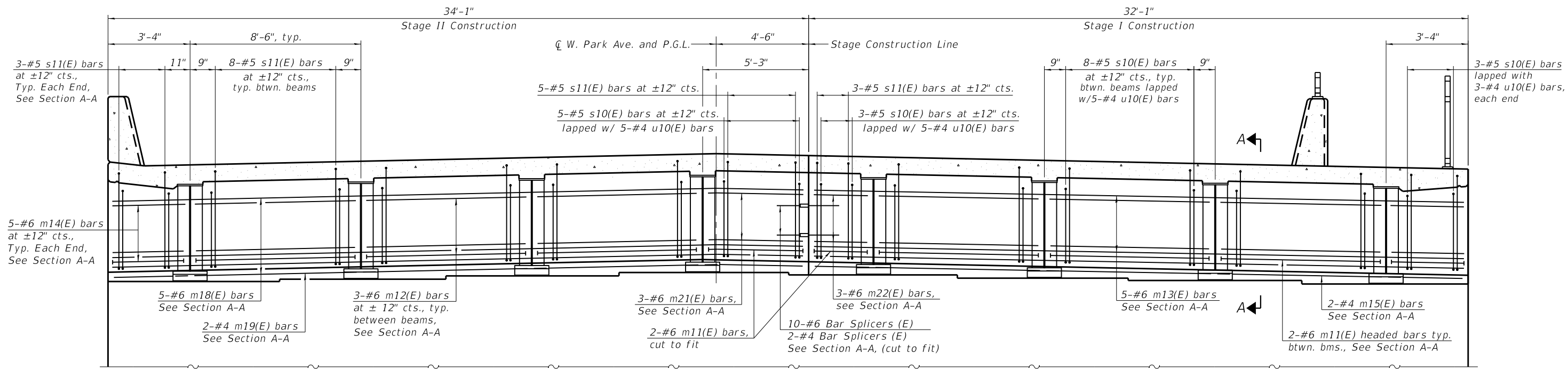


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

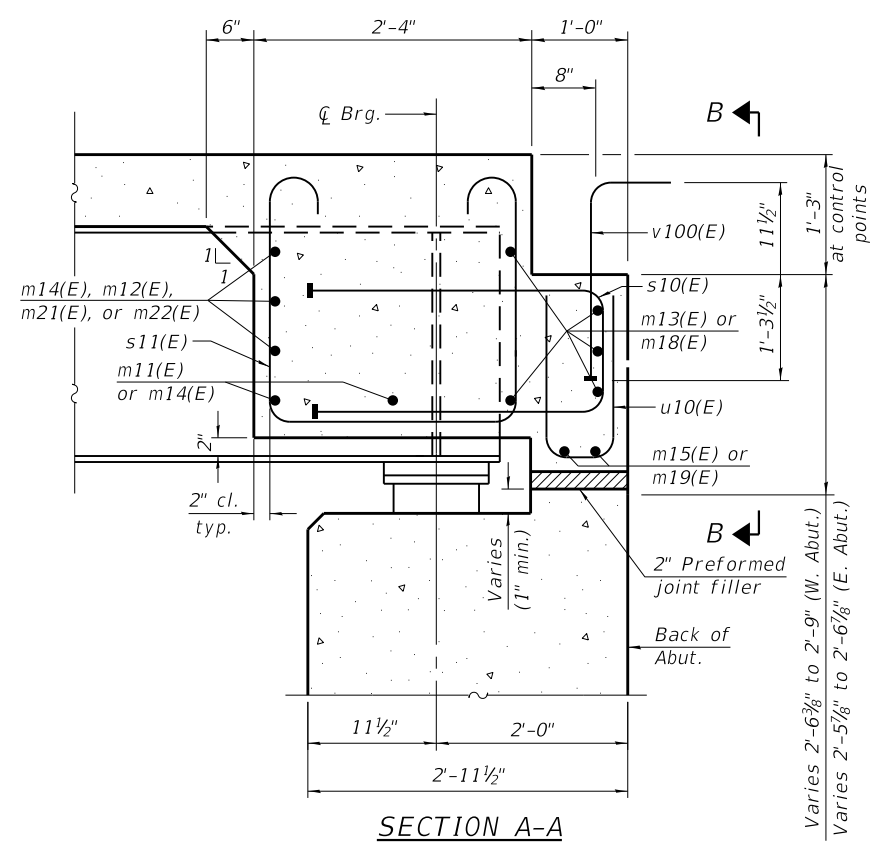
SUPERSTRUCTURE DETAILS 1
STRUCTURE NO. 049-6593
SHEET S-12 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 61H33
ILLINOIS FED. AID PROJECT				

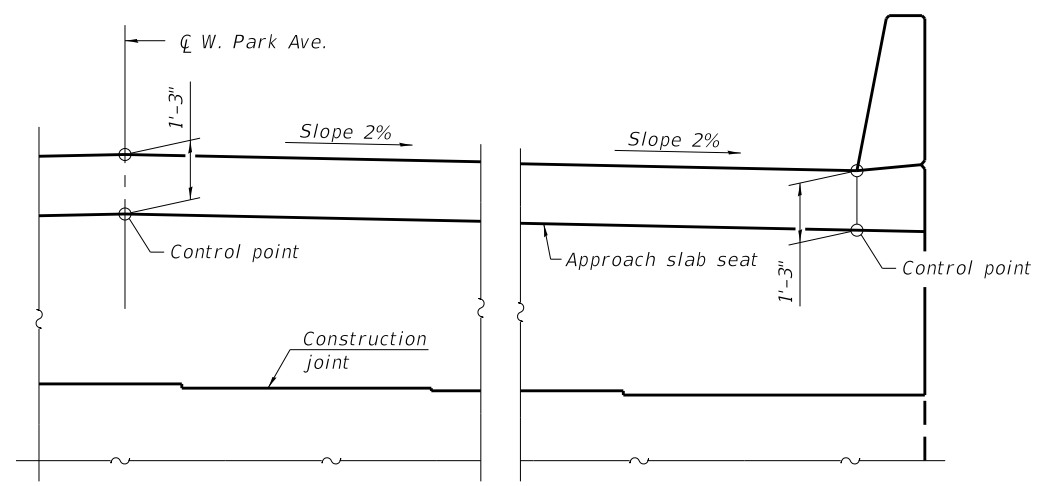


DIAPHRAGM AT EAST ABUTMENT
(Looking East, West Abutment Similar)

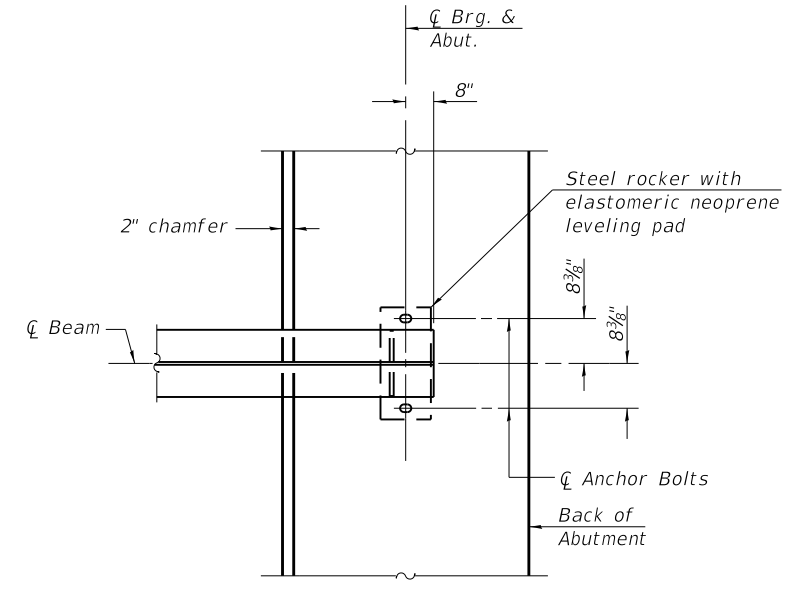
MINIMUM BAR LAP
#4 bar = 2'-1"
#6 bar = 4'-0"



SECTION A-A



VIEW B-B



PLAN AT EAST ABUTMENT
(Showing bottom flange of beam)

Notes:
See sheet S-12 of S-33 for superstructure details and Bill of Material.
See sheet S-12 of S-33 for P/JF details.
The approach slab seat shall have a constant slope determined from the control points shown.
Headed bars shall conform to ASTM A970 with threaded attachment, Class HA, and reinforcement bars conforming to ASTM A706.

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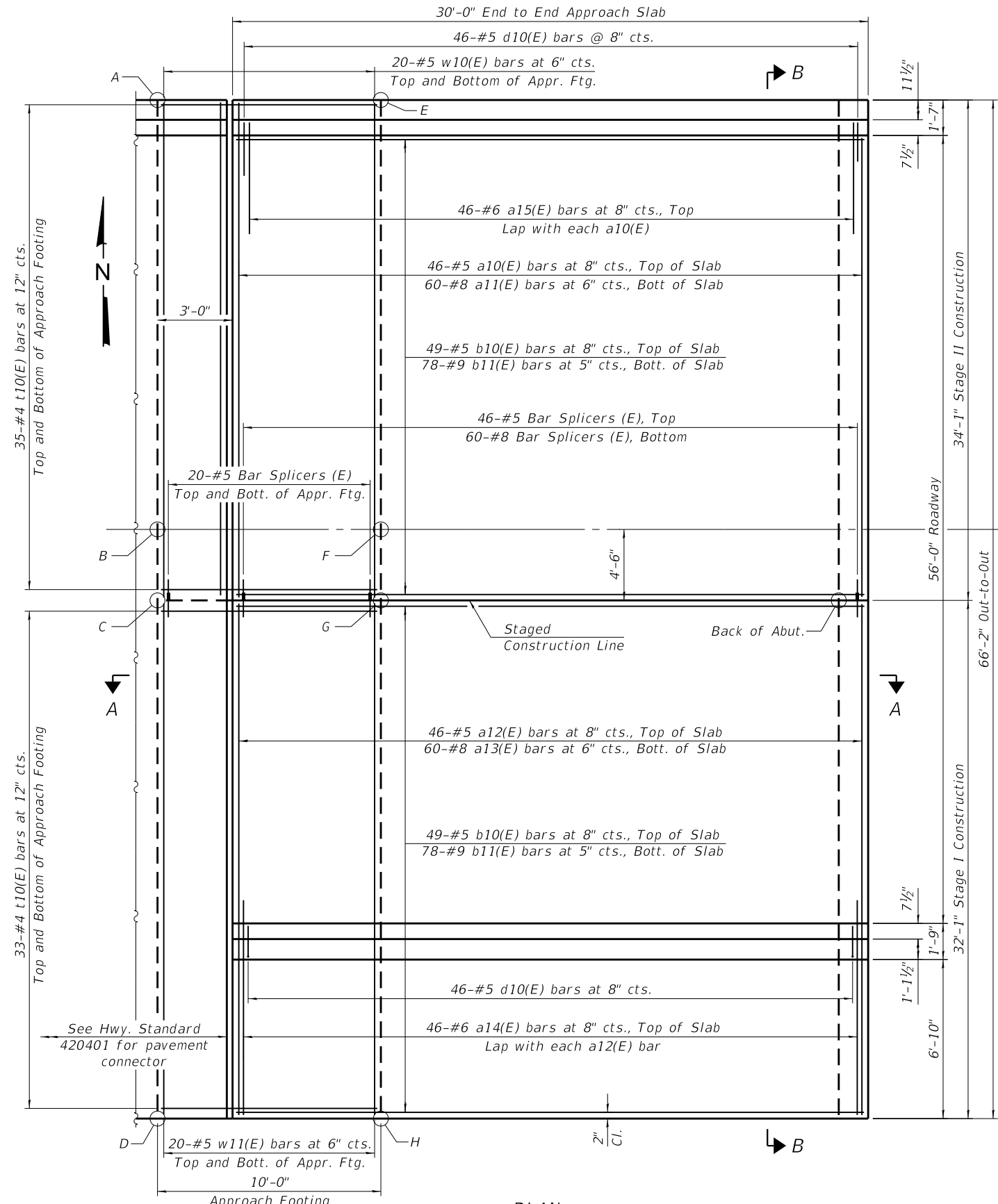
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS
STRUCTURE NO. 049-6593**

SHEET S-13 OF S-33 SHEETS

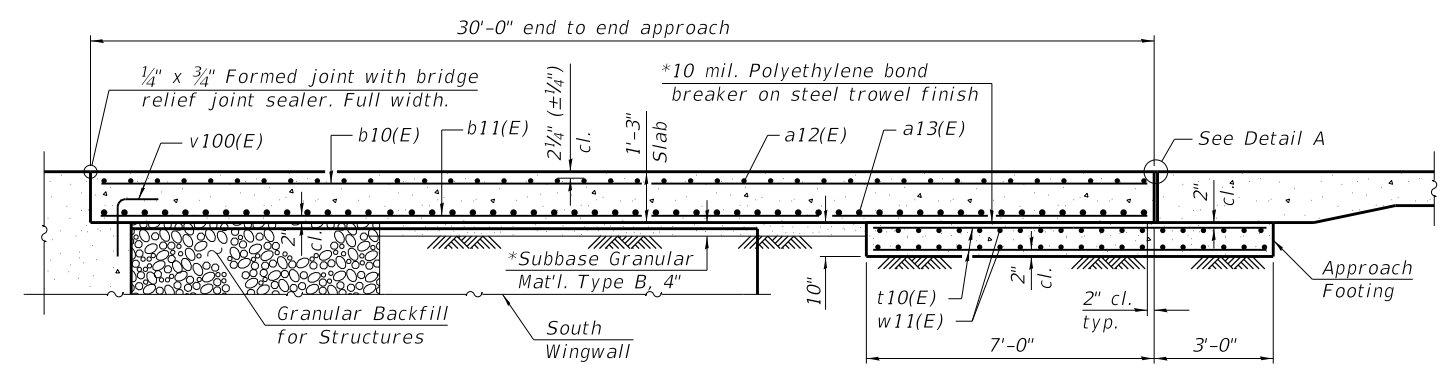
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1255	13-00122-00-BR	LAKE	145	91
				CONTRACT NO. 61H33
ILLINOIS FED. AID PROJECT				

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PLAN

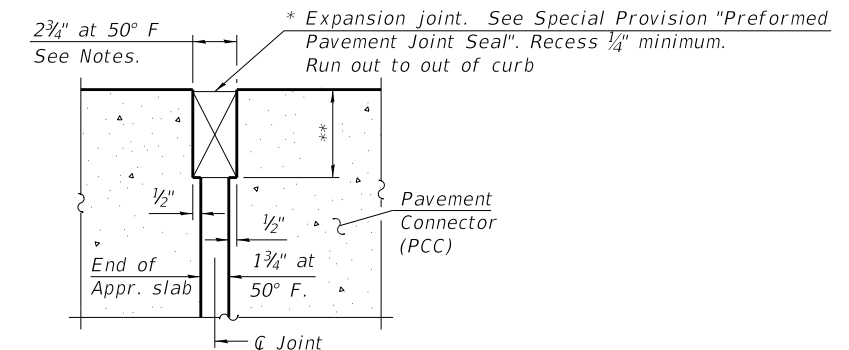
(West Approach Slab, East Approach Slab similar)



SECTION A-A

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	642.53	641.70	642.70	641.87
B	643.12	642.29	643.29	642.46
C	643.03	642.20	643.20	642.37
D	642.39	641.56	642.56	641.73
E	642.68	641.85	642.55	641.71
F	643.27	642.44	643.14	642.31
G	643.18	642.35	643.05	642.22
H	642.54	641.71	642.41	641.57



DETAIL A

* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations

MIN. LAP LENGTH

#5 bar = 3'-4"
#8 bar = 6'-9"
#9 bar = 8'-7"

Note:
For Section B-B and notes, see Sheet S-15.



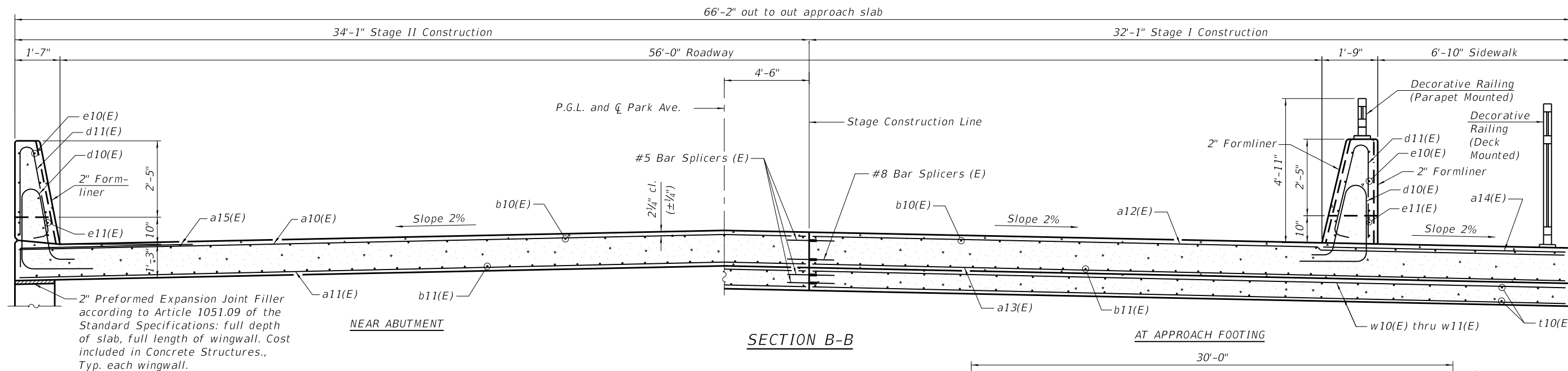
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

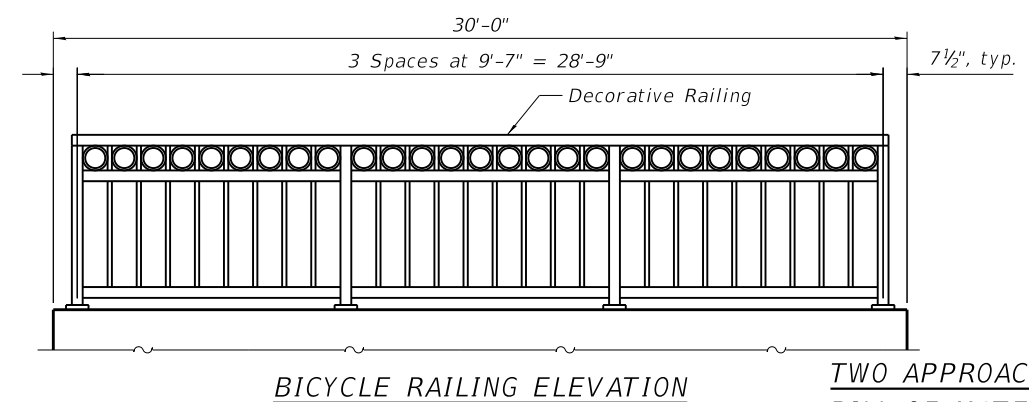
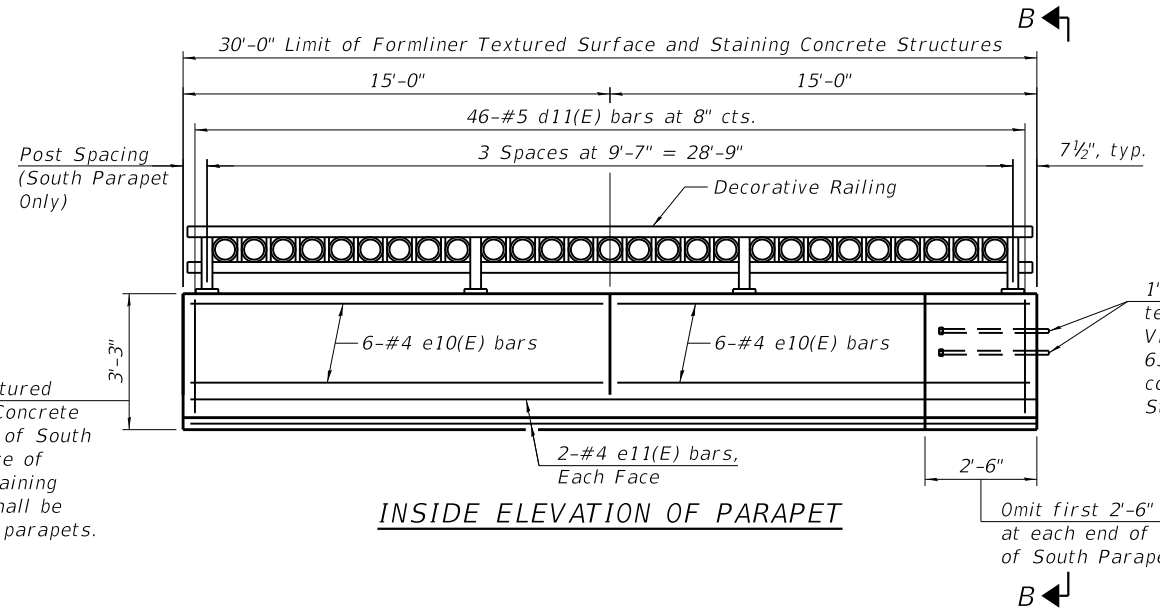
BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 049-6593

SHEET S-14 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	



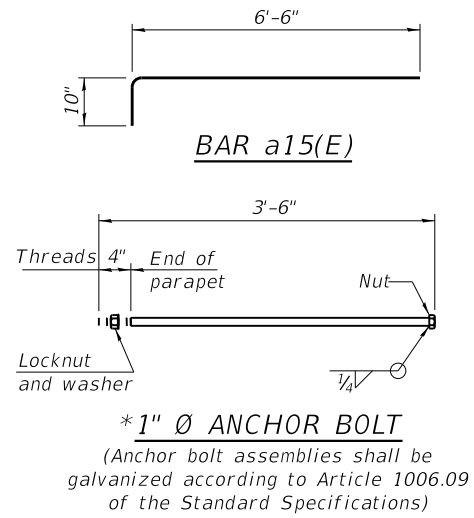
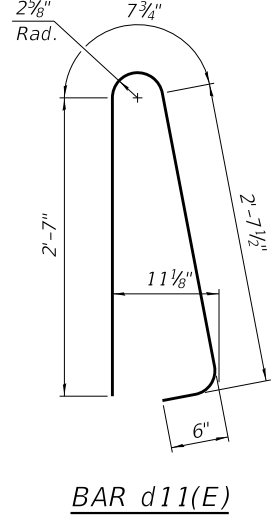
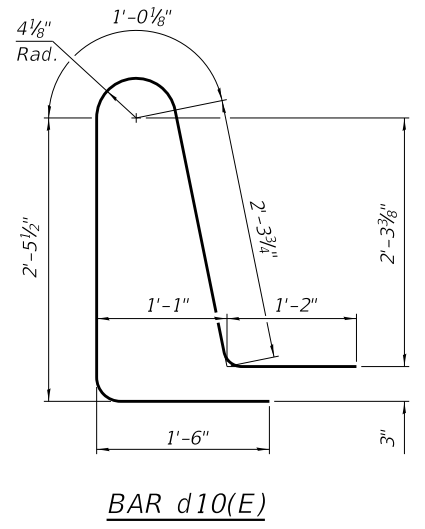
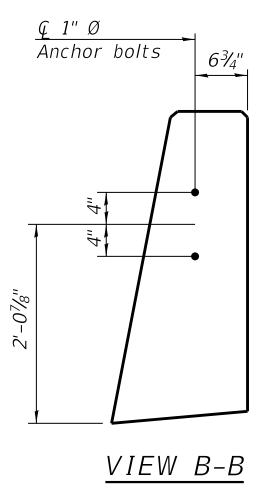
2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications: full depth of slab, full length of wingwall. Cost included in Concrete Structures., Typ. each wingwall.



TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	92	#5	34'-1"	—
a11(E)	120	#8	34'-1"	—
a12(E)	92	#5	32'-1"	—
a13(E)	120	#8	32'-1"	—
a14(E)	92	#6	13'-4"	—
a15(E)	92	#6	8'-4"	—
b10(E)	196	#5	29'-8"	—
b11(E)	312	#9	29'-8"	—
d10(E)	184	#5	8'-6"	⏏
d11(E)	184	#5	6'-5"	⏏
e10(E)	48	#4	14'-8"	—
e11(E)	16	#4	29'-8"	—
t10(E)	136	#4	9'-8"	—
w10(E)	80	#5	33'-9"	—
w11(E)	80	#5	31'-9"	—
Concrete Superstructure		Cu. Yd.	15.6	
Concrete Superstructure (Approach Slab)		Cu. Yd.	183.8	
Concrete Structures		Cu. Yd.	40.8	
Bridge Deck Grooving		Sq. Yd.	360	
Protective Coat		Sq. Yd.	499	
Reinforcement Bars, Epoxy Coated		Pound	78,080	
Form Liner		Sq. Ft.	593	
Textured Surface		Sq. Ft.	593	
Staining Concrete Superstructures		Sq. Ft.	593	

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 (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheets S-2 of S-33.



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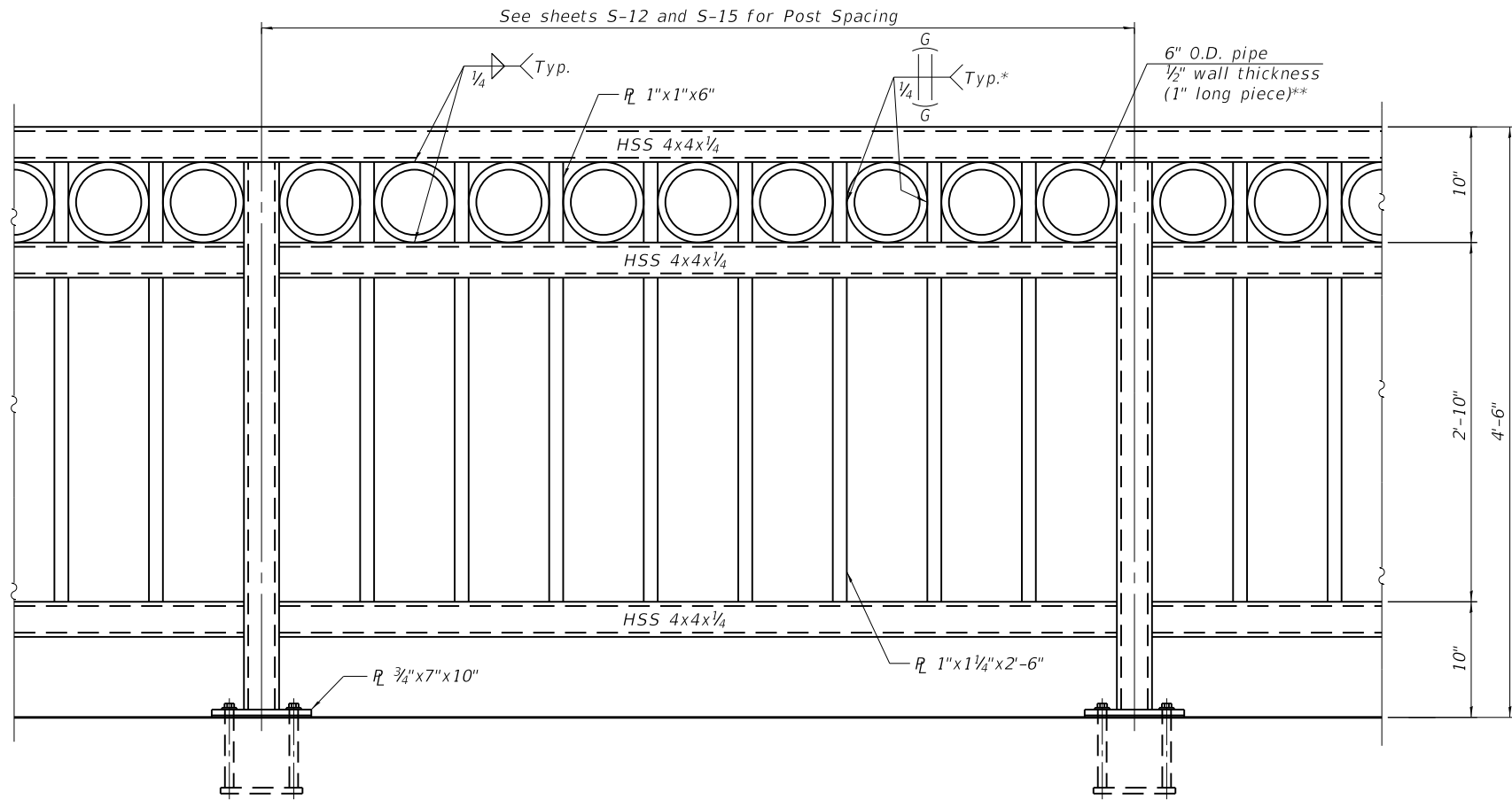
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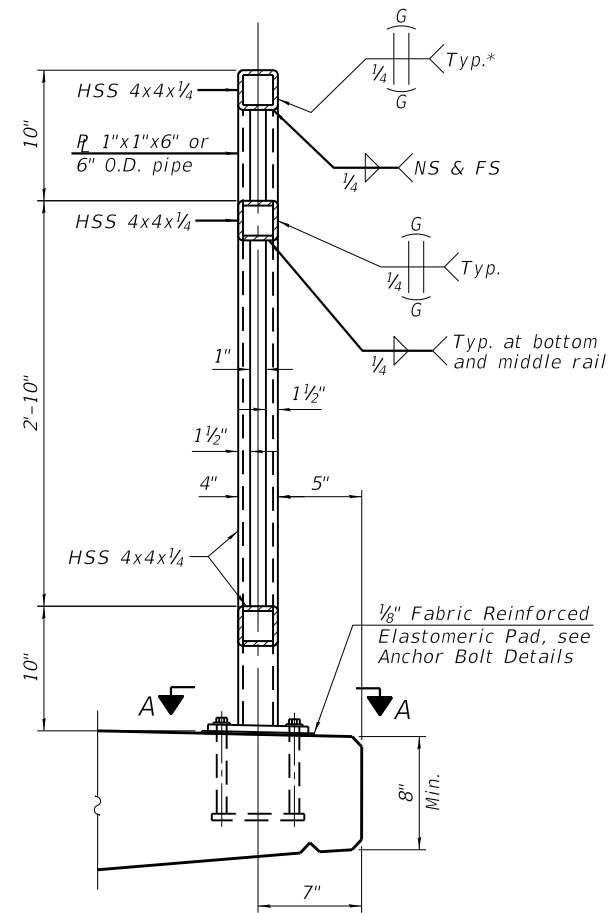
BRIDGE APPROACH SLAB DETAILS 2
STRUCTURE NO. 049-6593

SHEET S-15 OF S-33 SHEETS

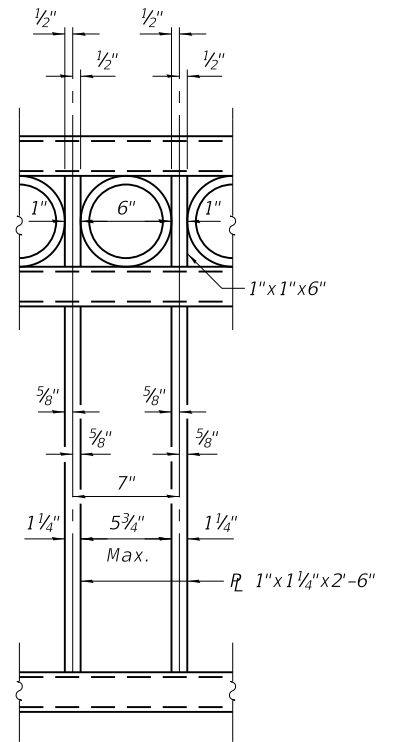
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1255	13-00122-00-BR	LAKE	145	93
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	



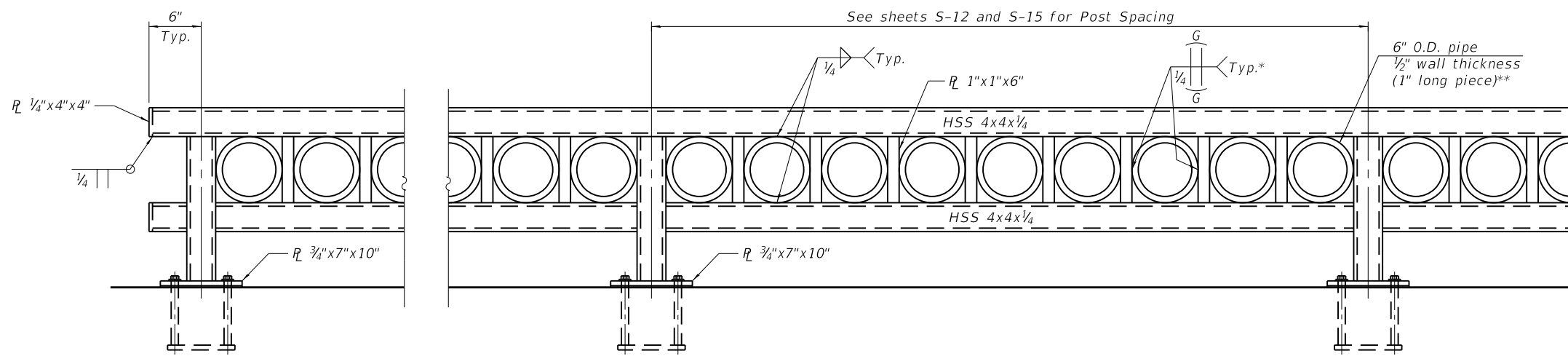
PARTIAL ELEVATION OF DECORATIVE RAILING (DECK MOUNTED)



SECTION THRU DECORATIVE RAILING (DECK MOUNTED)



TYPICAL RAILING DETAIL



PARTIAL ELEVATION OF DECORATIVE RAILING (PARAPET MOUNTED)

*Penetration between pipe segments and bar is approximate. Avoid leaving significant well debris as pipe diverges. Grind flush on sidewalk side.

**Pipe segments shall have all corners ground to remove burrs or sharp projections.

Note:
See sheet S-17 for Section A-A.

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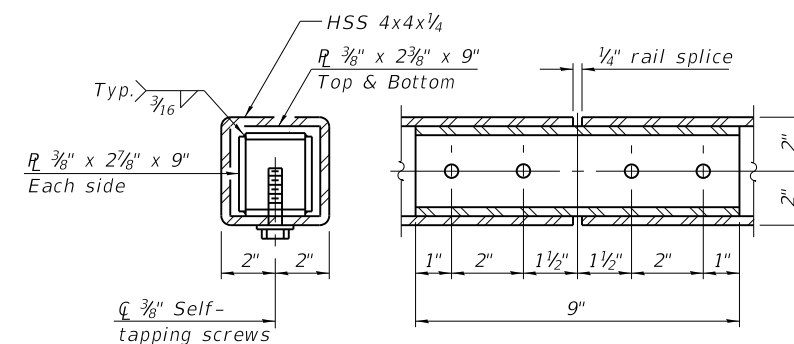
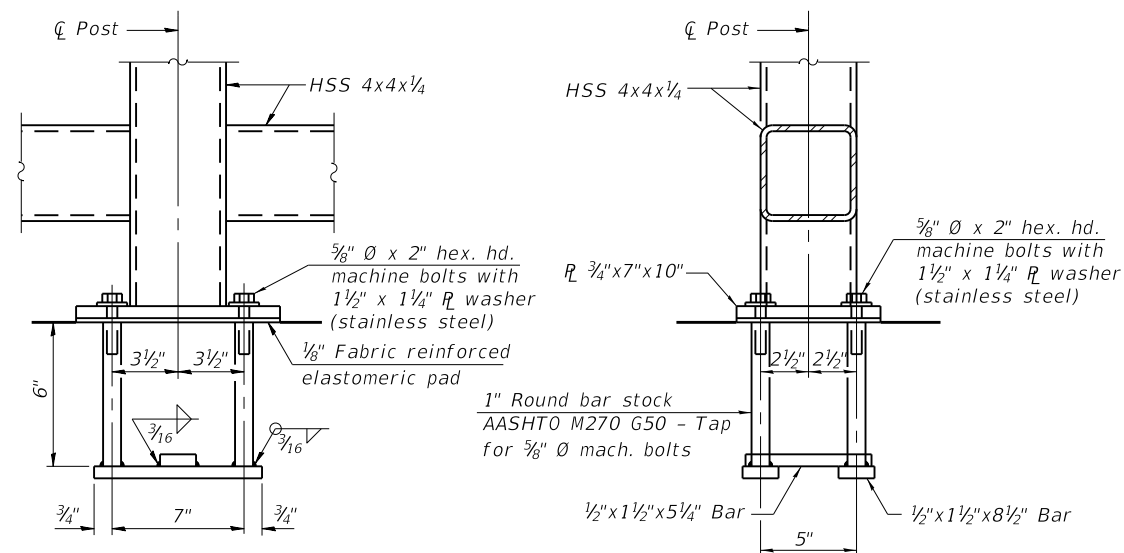
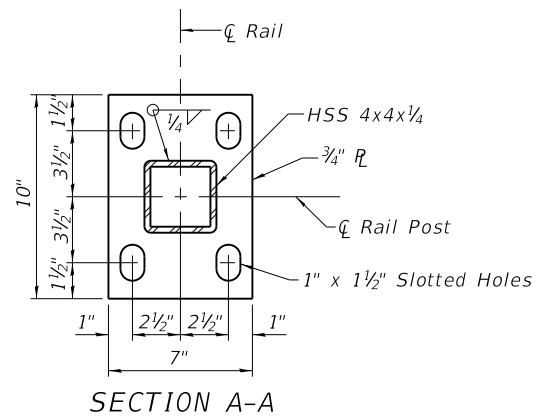
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECORATIVE RAILING 1
STRUCTURE NO. 049-6593

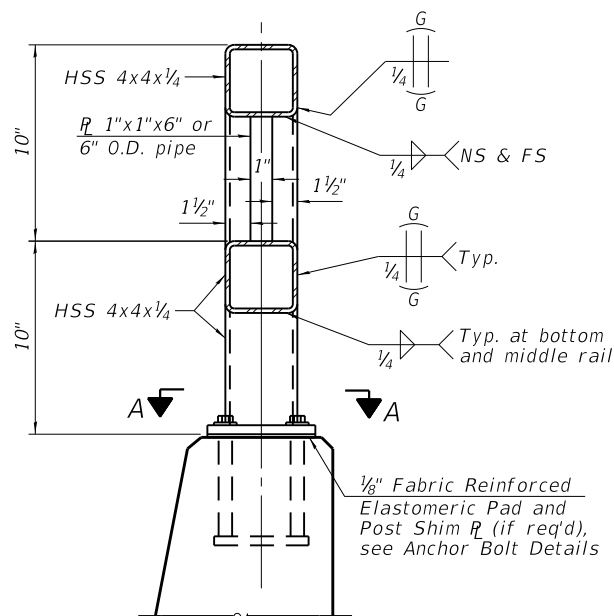
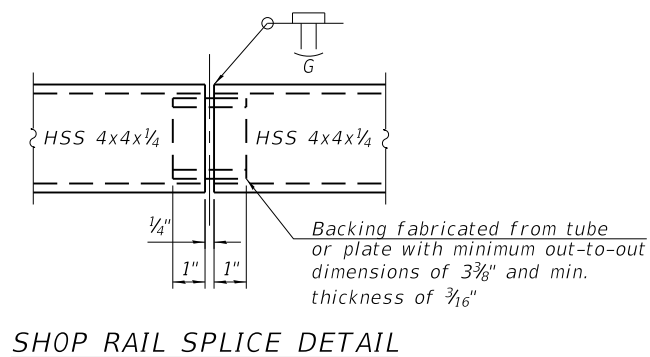
SHEET S-16 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	94
			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



ANCHOR BOLT DETAILS

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



SECTION THRU DECORATIVE RAILING (PARAPET MOUNTED)

Notes:
 Railing shall be according to Section 509 of the Standards Specifications, except as noted.
 Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B structural steel tubing.
 All other structural steel shapes and plates shall conform to the requirements of AASHTO M270 Grade 36.
 Railings shall be fabricated in lengths that include 3 or 4 posts.
 Post base plates shall be flat with all surfaces smooth and free from warp and all edges smooth, straight and vertical. All plate cuts shall be machine or machine flame cut.
 If drilling and epoxy grouting anchor rods in lieu of cast-in anchor assemblies the CONTRACTOR shall use the capsule of adhesive cartridge and anchor rods approved by the Department. The CONTRACTOR shall install these according to the MANUFACTURER'S recommendations and procedures. The CONTRACTOR shall remove excess epoxy from exposed surfaces.
 For cleaning, painting and color of decorative steel railing see Special Provisions for Decorative Railing (Deck Mounted) / Decorative Railing (Parapet Mounted).

BILL OF MATERIAL

Item	Unit	Quantity
Decorative Railing (Deck Mounted)	Foot	141
Decorative Railing (Parapet Mounted)	Foot	141

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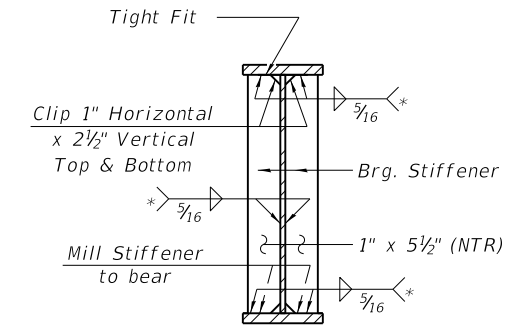
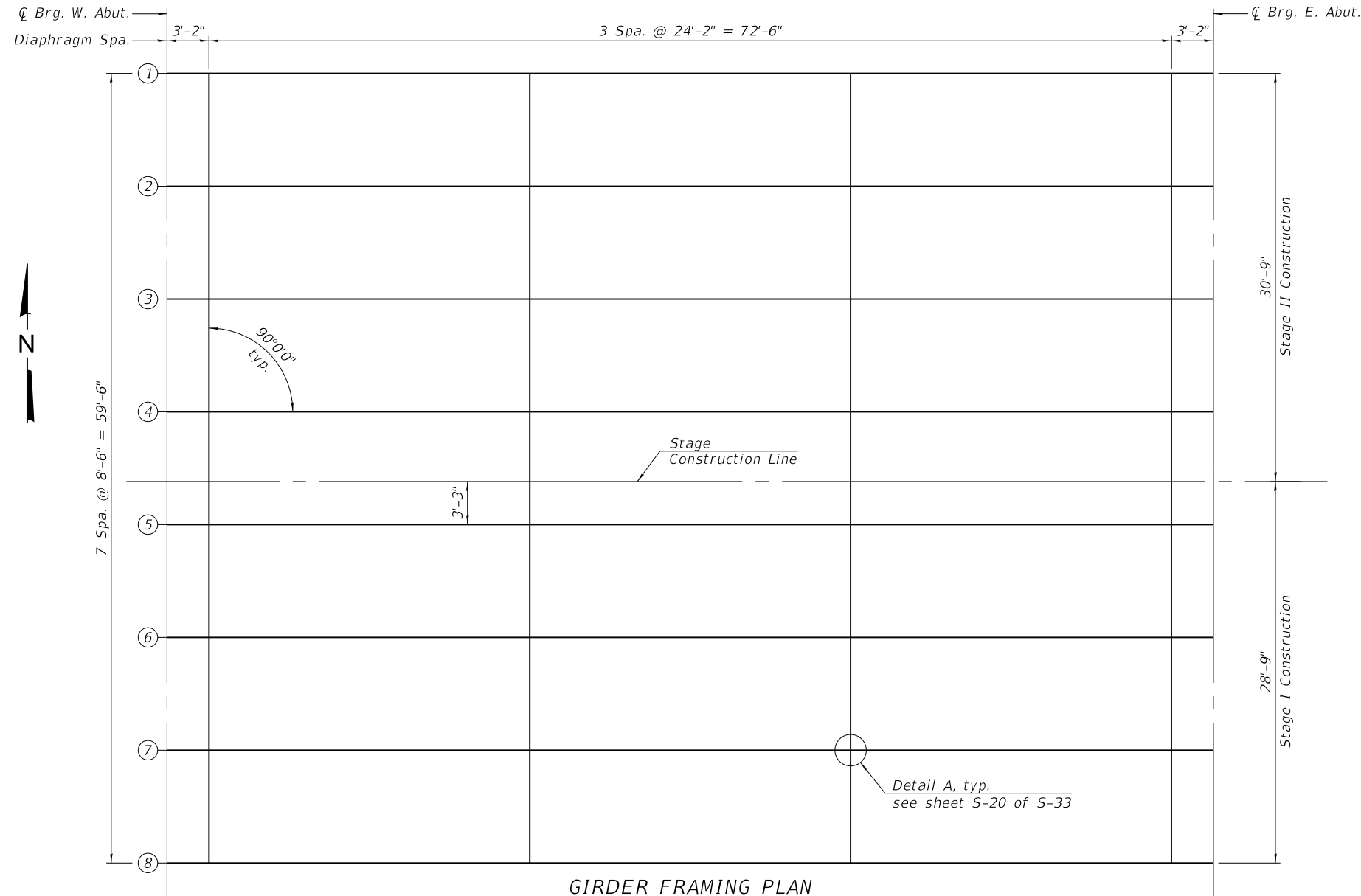
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PLOT SCALE =	CHECKED - SSM	REVISED -
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 DEPARTMENT OF TRANSPORTATION

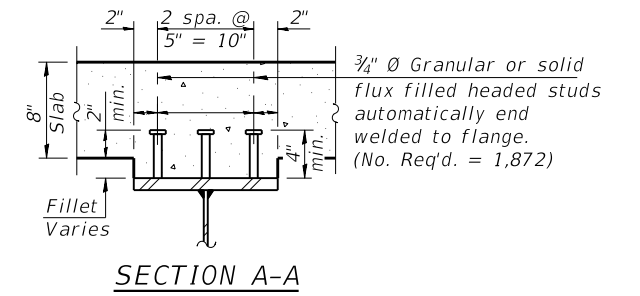
DECORATIVE RAILING 2
 STRUCTURE NO. 049-6593

SHEET S-17 OF S-33 SHEETS

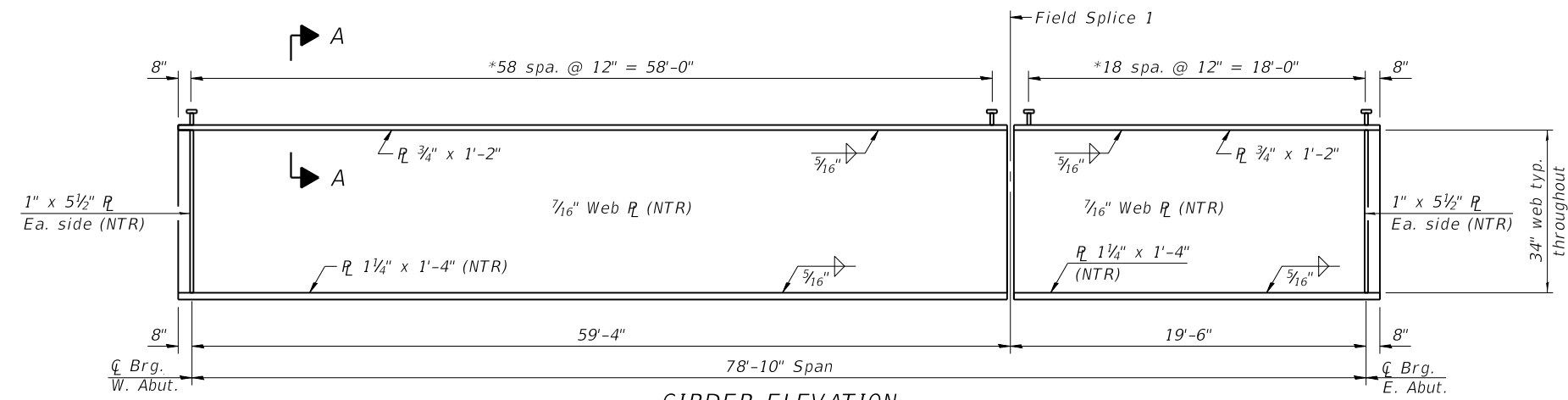
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	95
			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



SECTION AT ABUTMENT
 * Terminate 1/4" (±1/8") from the end of plate intersects.



GIRDER FRAMING PLAN



GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.
 * CONTRACTOR shall adjust shear stud spacing at Field Splice to provide 3" minimum clearance from shear stud to splice plate.

MODEL: Default
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN
 STRUCTURE NO. 049-6593**

SHEET S-18 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	96
CONTRACT NO. 61H33				

ILLINOIS FED. AID PROJECT

MOMENT TABLE			
		Interior 0.5 Sp. 1	Exterior 0.5 Sp. 1
I_s	(in ⁴)	10,181	10,181
$I_c(n)$	(in ⁴)	33,468	32,640
$I_c(3n)$	(in ⁴)	24,779	23,863
$I_c(cr)$	(in ⁴)	-----	-----
S_s	(in ³)	702	702
$S_c(n)$	(in ³)	1,003	997
$S_c(3n)$	(in ³)	936	927
$S_c(cr)$	(in ³)	-----	-----
DC1	(k/')	1.052	0.961
MDC1	(k)	817	747
DC2	(k/')	0.291	0.295
MDC2	(k)	226	229
DW	(k/')	0.396	0.396
MDW	(k)	308	308
LLDF		0.650	0.765
$M_L + IM$	(k)	1,309	1,539
f_I (Strength I)		0	0
M_u (Strength I)	(k)	4,055	4,374
$\phi_f M_n$	(k)	5,179	5,043
f_s DC1	(ksi)	13.96	12.77
f_s DC2	(ksi)	2.90	2.96
f_s DW	(ksi)	3.94	3.98
f_s ($\ell + IM$)	(ksi)	15.66	18.52
f_s (Service II)	(ksi)	41.16	43.79
0.95Rh Fyf	(ksi)	47.50	47.50
f_s (Total)(Strength I)(ksi)		-----	-----
$\phi_f F_n$	(ksi)	-----	-----
Vf	(k)	29.7	32.4

GIRDER REACTION TABLE		
	Abut.	
	Interior	Exterior
LLDF	0.849	0.765
OCF	-----	-----
R_{DC1}	(k) 41.5	37.9
R_{DC2}	(k) 11.5	11.6
R_{DW}	(k) 15.6	15.6
$R_{LL + IM}$	(k) 93.1	83.8
R_{Total}	(k) 161.7	148.9

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).

DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: 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.).
MDC2: 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.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_L + IM$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
MDC1/ S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
MDC2/ $S_c(3n)$ or MDC2/ $S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
MDW/ $S_c(3n)$ or MDW/ $S_c(cr)$ as applicable.

f_s ($\ell + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_L + IM / S_c(n)$ or $M_L + IM / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (\ell + IM)$

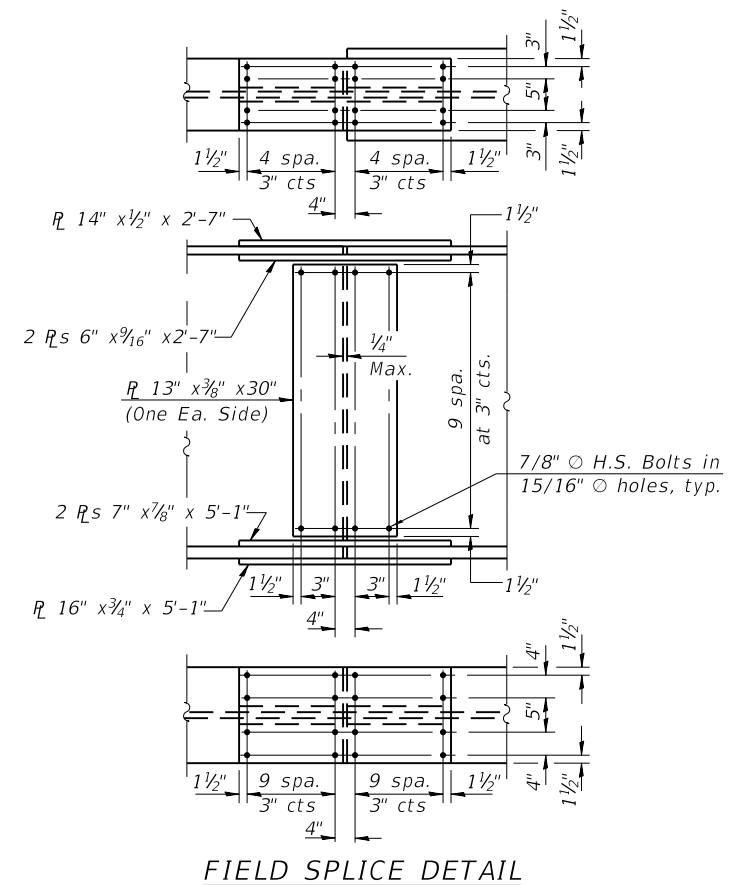
0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (\ell + IM)$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

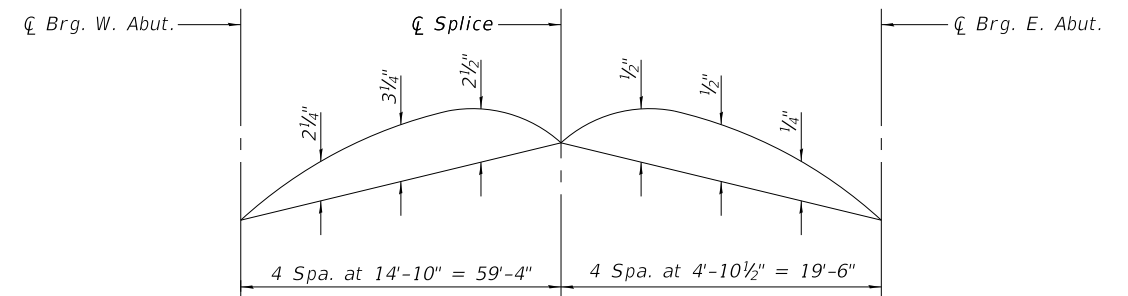
Vf: Maximum factored shear range in span computed according to Article 6.10.10.

Note:
 M_L and R_L include the effects of centrifugal force and superelevation.



FIELD SPLICE DETAIL

TOP OF WEB ELEVATIONS								
Beam No.	1	2	3	4	5	6	7	8
W. Abut.	643.47	643.64	643.81	643.98	643.84	643.67	643.50	643.33
Splice	643.56	643.73	643.90	644.07	643.93	643.76	643.59	643.42
E. Abut.	643.48	643.65	643.82	643.99	643.85	643.68	643.51	643.34



CAMBER DIAGRAM

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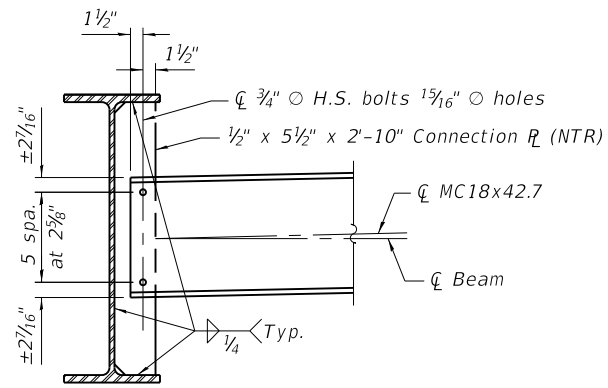
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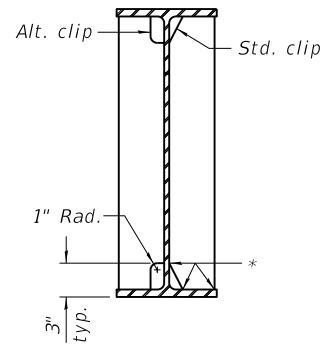
STEEL BEAM DETAILS 1
STRUCTURE NO. 049-6593

SHEET S-19 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	97
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

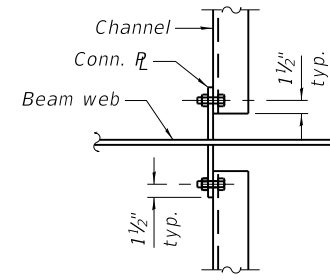


INTERIOR DIAPHRAGM
(28 Thus)

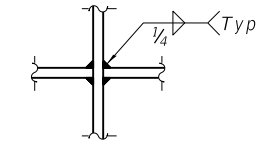


WELD LIMITS AND CLIP DETAILS

* Terminate welds 1/4" (±1/8") from edges as shown, typ.



DETAIL A



WEB WELD DETAIL

NOTES:

Two hardened washers required for each set of oversized holes.

Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.

All plates of the girder, including splice plates and fill plates, shall be AASHTO M270, Grade 50.

All diaphragms, bearing stiffeners, angles and connecting plates, shall be AASHTO M270, Grade 50.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

Girders have bearing stiffeners and connection plates as required by design. Additional stiffeners may be added at Contractor's expense as necessary to prevent distortion of the girders during galvanizing. The Contractor shall coordinate with the fabricator and the galvanizer to determine if additional stiffeners are necessary, and where these should be placed. Any proposed changes shall be submitted to the Engineer for approval prior to making any changes and documented on the shop drawings.

Temporary stiffener angles shall be bolted to each side of the splice ends of each girder segment to prevent distortion during galvanizing. Temporary stiffener angles shall bolt or fit tight against top and bottom flanges and include spacer tubes to minimize damage to galvanizing during removal. Cost included with Furnishing and Erecting Structural Steel.

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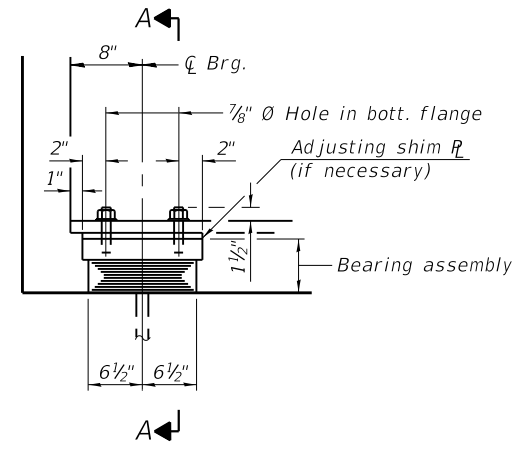
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CHECKED - SSM	REVISIONS	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

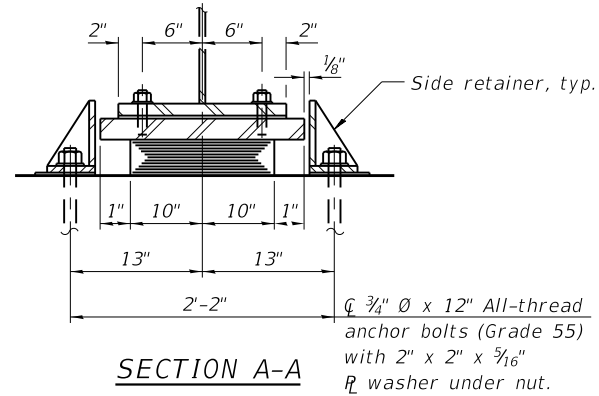
**STEEL BEAM DETAILS 2
STRUCTURE NO. 049-6593**

SHEET S-20 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

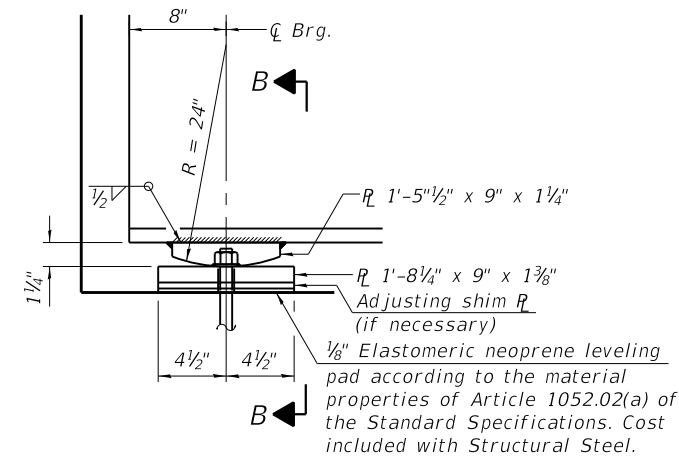


ELEVATION AT W. ABUT.

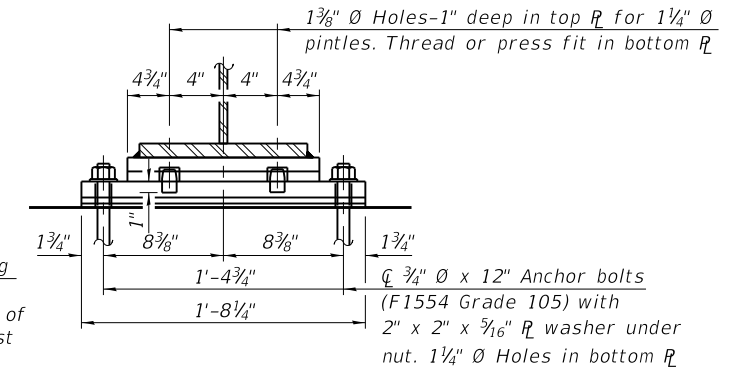


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.
(8 Required)

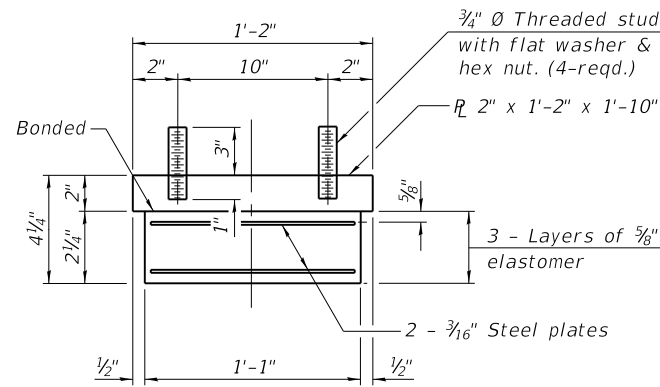


ELEVATION AT E. ABUTMENT

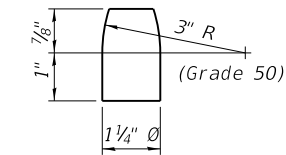


SECTION B-B

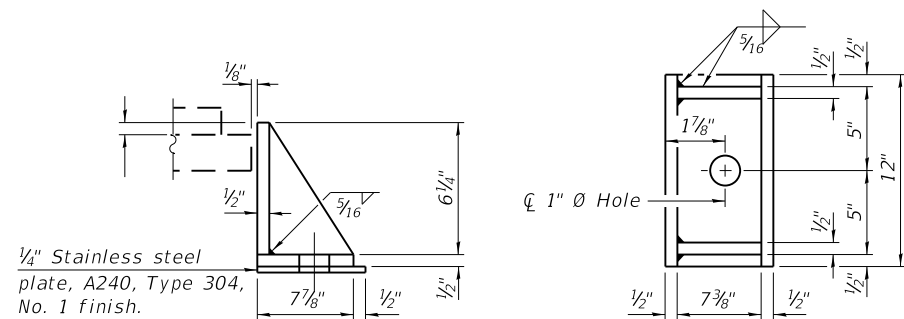
FIXED BEARING
(8 Required)



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.
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.
Shim plates shall not be placed under bearing assembly.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	8
Anchor Bolts	Each	32

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

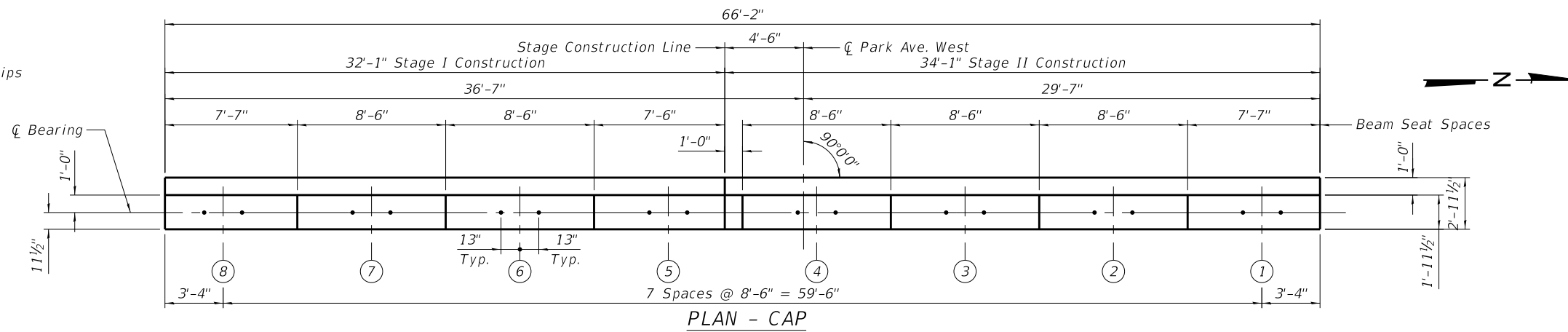
BEARING DETAILS
STRUCTURE NO. 049-6593

SHEET S-21 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	99
			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				

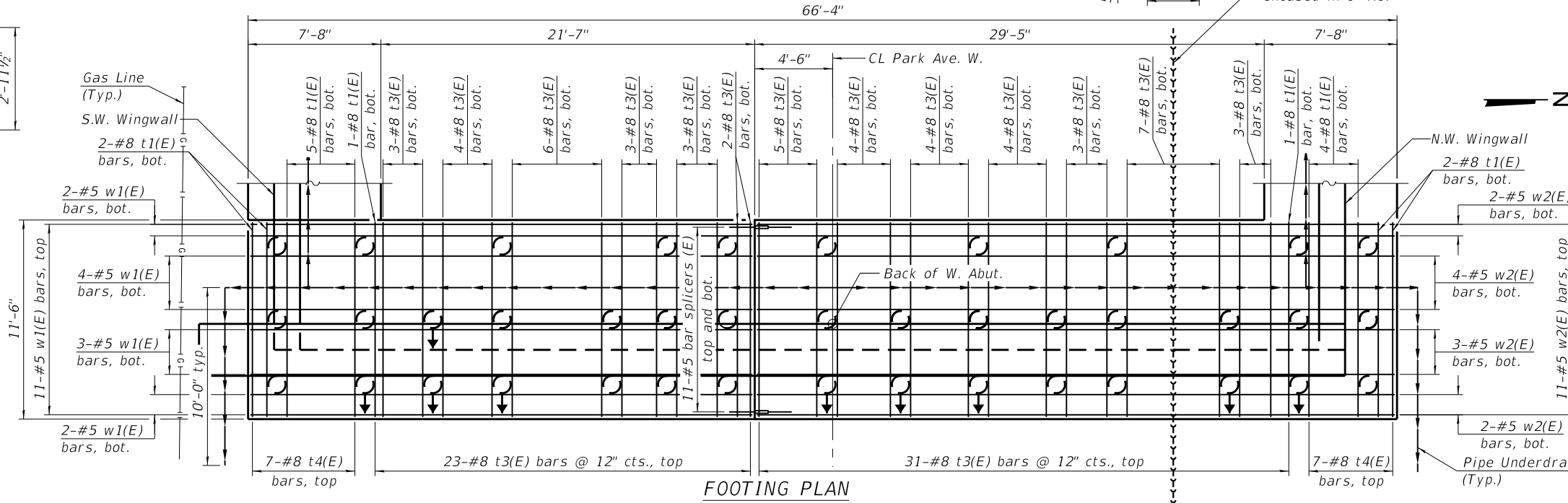
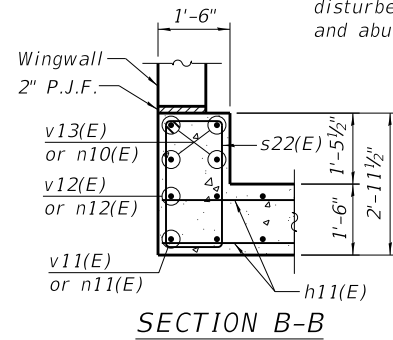
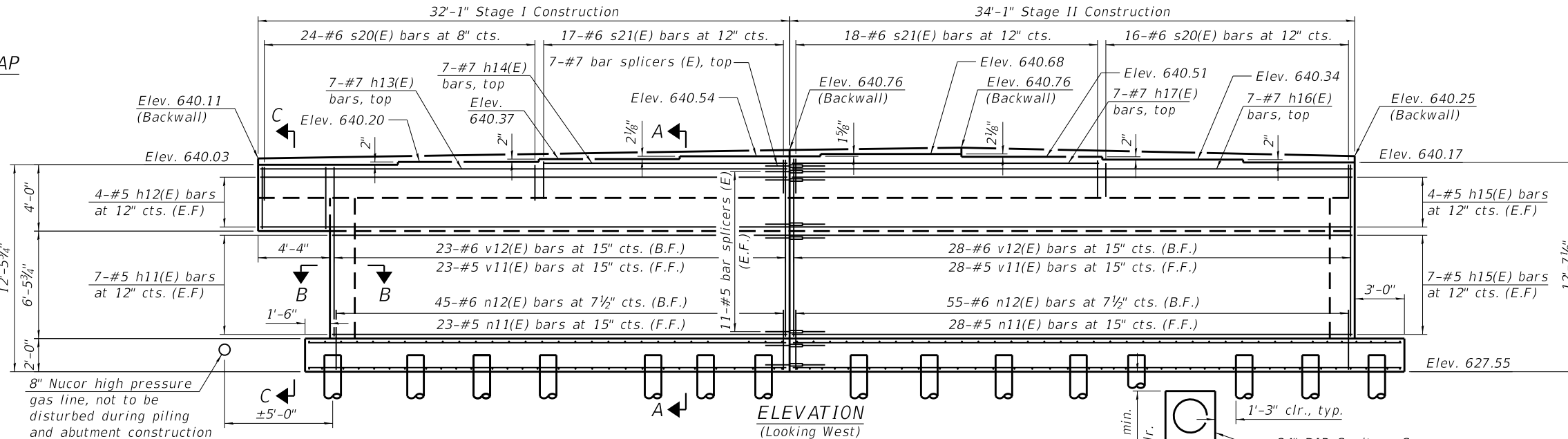
PILE DATA

Type: Metal Shell 12"x0.25"
 Nominal Required Bearing: 338 kips
 Factored Resistance Available: 186 kips
 Est. Length: 30'-0"
 No. Production Piles:
 Stage I = 18
 Stage II = 21
 No. Test Piles: 1



MINIMUM BAR LAP

#5 bar = 3'-7"
 #6 bar = 4'-4"
 #7 bar = 5'-0"



Notes:
 For Bill of Material, quantities and bar bending details, see Sheet S-23.
 E.F. = Each Face
 B.F. = Back Face
 F.F. = Front Face

MODEL: Default
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

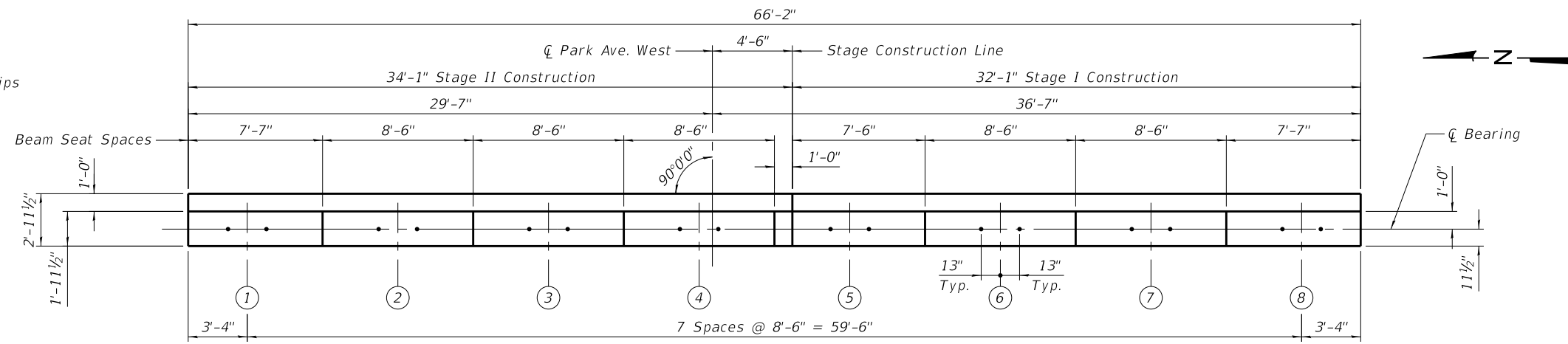
WEST ABUTMENT
 STRUCTURE NO. 049-6593

SHEET S-22 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	

PILE DATA

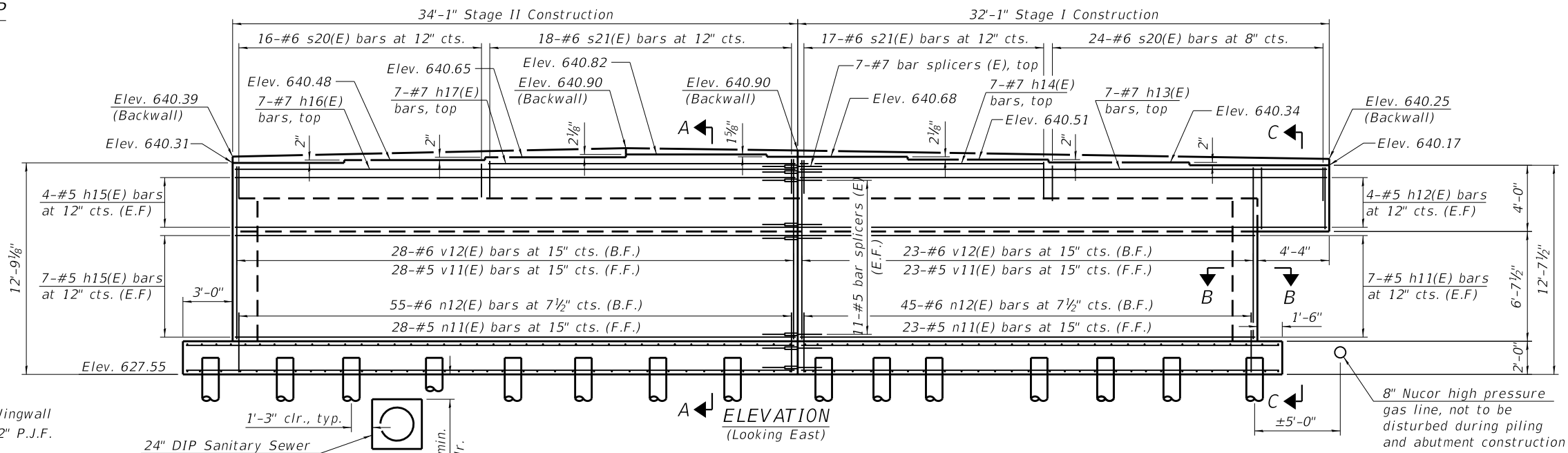
Type: Metal Shell 12"x0.25"
 Nominal Required Bearing: 260 kips
 Factored Resistance Available: 143 kips
 Est. Length: 36'-0"
 No. Production Piles:
 Stage I = 18
 Stage II = 21
 No. Test Piles: 1



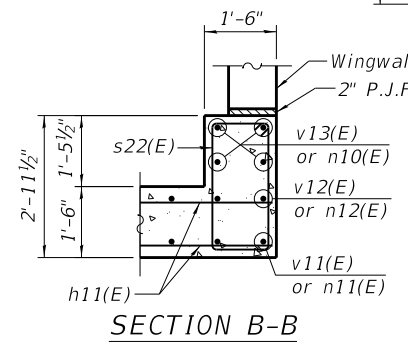
PLAN - CAP

MINIMUM BAR LAP

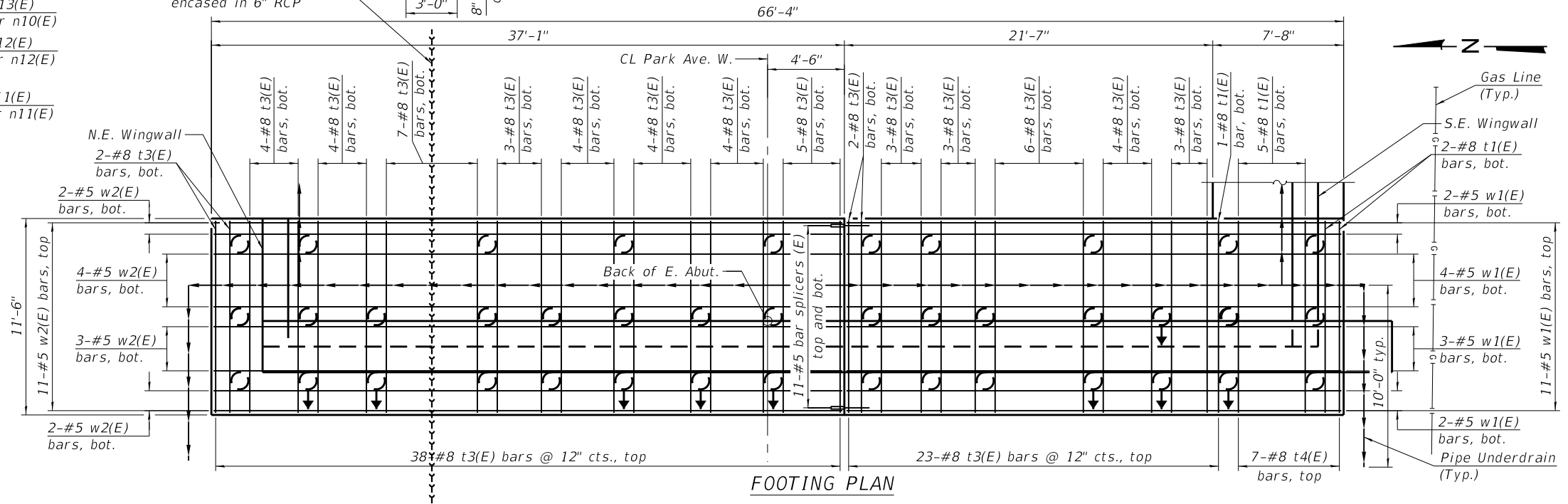
#5 bar = 3'-7"
 #6 bar = 4'-4"
 #7 bar = 5'-0"



ELEVATION
(Looking East)



SECTION B-B



FOOTING PLAN

Notes:
 For Bill of Material, quantities and bar bending details, see Sheet S-23.
 E.F. = Each Face
 B.F. = Back Face
 F.F. = Front Face

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

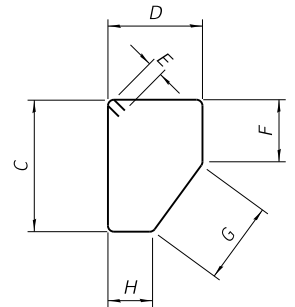
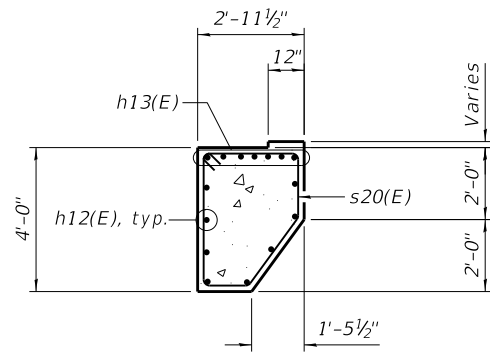
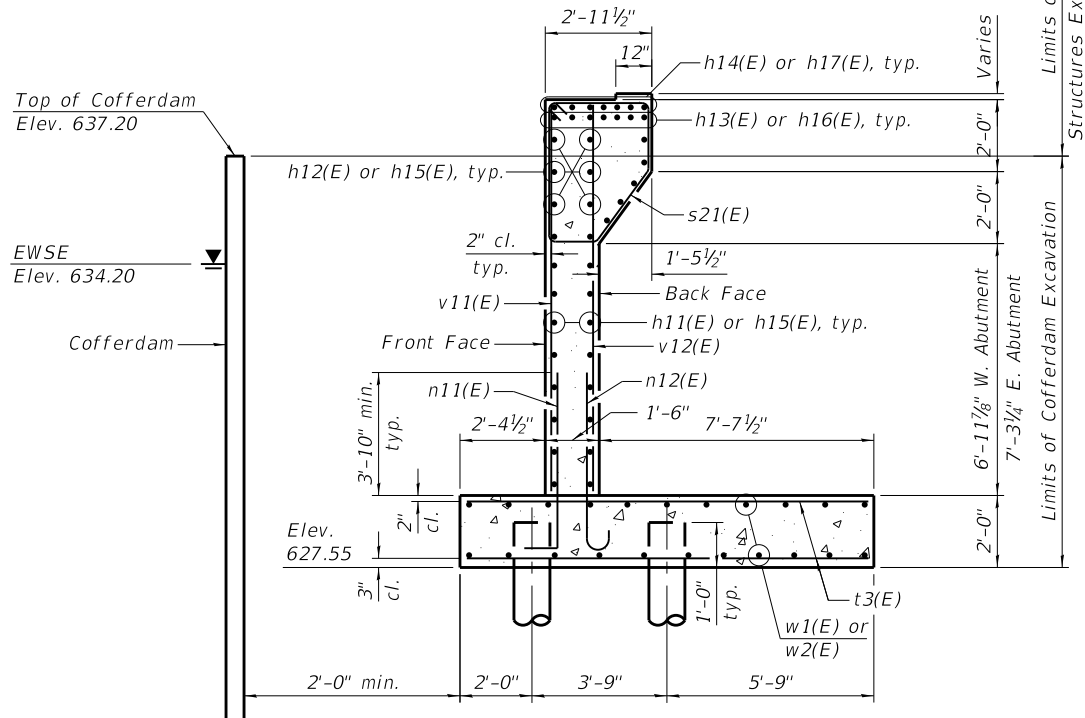
EAST ABUTMENT
STRUCTURE NO. 049-6593

SHEET S-23 OF S-33 SHEETS

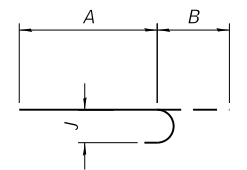
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	101
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	

BILL OF MATERIAL

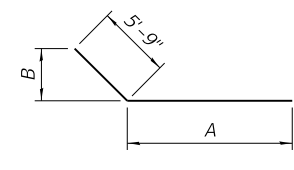
Bar	No.	Size	Length	Shape	Structure Excavation	Cu. Yd.	68
h11(E)	28	#5	27'-5"	—	Cofferdam (Type 2) (Location 1)	Each	1
h12(E)	16	#5	31'-9"	—	Cofferdam (Type 2) (Location 2)	Each	1
h13(E)	14	#7	31'-9"	—	Cofferdam (Type 2) (Location 3)	Each	1
h14(E)	14	#7	15'-8"	—	Cofferdam (Type 2) (Location 4)	Each	1
h15(E)	44	#5	33'-9"	—	Concrete Structures	Cu. Yd.	271.1
h16(E)	14	#7	33'-9"	—	Reinforcement Bars, Epoxy Coated	Pound	30,510
h17(E)	14	#7	17'-8"	—	Furnishing Metal Shell 12" x 0.250"	Foot	3,098
h21(E)	18	#4	7'-11"	—	Driving Piles	Foot	3,098
h22(E)	6	#4	4'-8"	—	Test Pile Metal Shells	Each	2
h23(E)	18	#4	7'-2"	—	Pile Shoes	Each	94
h31(E)	22	#4	5'-8"	—	Geocomposite Wall Drain	Sq. Yd.	204
h41(E)	36	#4	7'-11"	—	Granular Backfill for Structures	Cu. Yd.	250
h42(E)	12	#4	4'-8"	—	Pipe Underdrain for Structures 4"	Foot	222
h43(E)	36	#4	14'-6"	—	Temporary Soil Retention System	Sq. Ft.	2,645
s20(E)	80	#6	13'-0"	⊔			
s21(E)	70	#6	13'-8"	⊔			
s22(E)	46	#5	8'-7"	⊔			
v11(E)	102	#5	10'-2"	—			
v12(E)	102	#6	10'-2"	—			
v13(E)	16	#5	10'-2"	—			
v21(E)	5	#6	12'-10"	—			
v22(E)	7	#6	9'-3"	—			
v23(E)	5	#4	12'-10"	—			
v24(E)	7	#4	9'-3"	—			
v31(E)	6	#6	12'-10"	—			
v32(E)	6	#4	12'-10"	—			
v41(E)	10	#6	12'-10"	—			
v42(E)	10	#4	12'-10"	—			
v43(E)	26	#6	9'-1"	—			
v44(E)	26	#4	9'-1"	—			
w1(E)	44	#5	28'-11"	—			
w2(E)	44	#5	36'-9"	—			
w3(E)	15	#5	7'-2"	—			
w4(E)	30	#5	14'-6"	—			
t1(E)	23	#8	16'-11"	—			
t2(E)	77	#5	7'-4"	—			
t3(E)	224	#8	11'-2"	—			
t4(E)	21	#8	12'-7"	—			
d20(E)	21	#5	8'-1"	└┘			
n10(E)	16	#6	6'-4"	└┘			
n11(E)	102	#5	6'-2"	└┘			
n12(E)	200	#6	6'-0"	└┘			
n21(E)	9	#6	9'-6"	└┘			
n22(E)	13	#6	6'-0"	└┘			
n31(E)	10	#6	9'-6"	└┘			
n41(E)	18	#6	9'-6"	└┘			
n42(E)	50	#6	6'-0"	└┘			



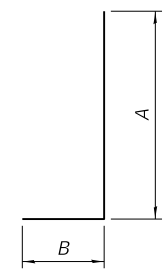
Bar s20(E), s21(E)



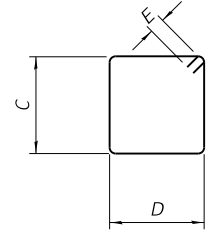
Bar n12(E), n21(E), n22(E), n31(E), n41(E), n42(E)



Bar t1(E)



Bar n11(E), d20(E)



Bar s22(E)

Bar	Shape	A	B	J	C	D	E	F	G	H
n10	└┘	5'-4"	1'-0"							
n11	└┘	5'-4"	10"							
n12	└┘	5'-4"	8"	6"						
n21(E)	└┘	8'-10"	8"	6"						
n22(E)	└┘	5'-4"	8"	6"						
n31(E)	└┘	8'-10"	8"	6"						
n41(E)	└┘	8'-10"	8"	6"						
n42(E)	└┘	5'-4"	8"	6"						
s20(E)	⊔				3'-8"	2'-8"	8"	1'-8"	2'-6"	1'-2"
s21(E)	⊔				4'-0"	2'-8"	8"	2'-0"	2'-6"	1'-2"
s22(E)	⊔				2'-8"	1'-2"	5 1/2"			
t1(E)	—	11'-2"	5'-9"							
d20(E)	└┘	4'-6"	3'-7"							

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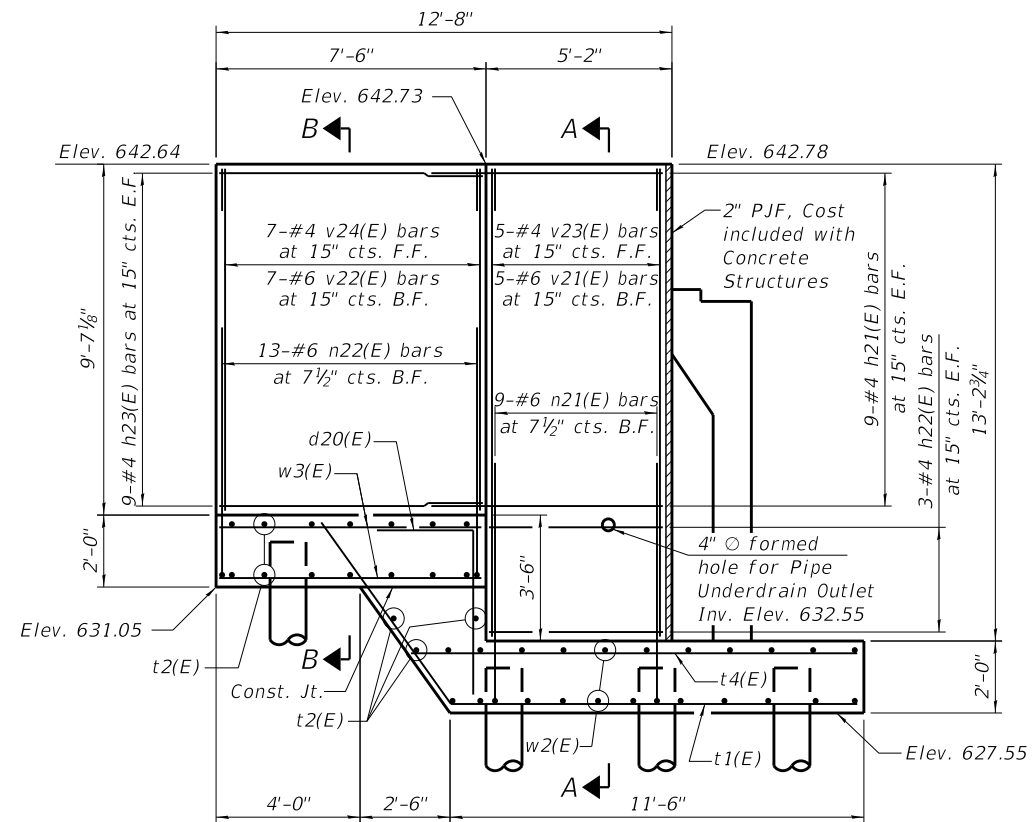
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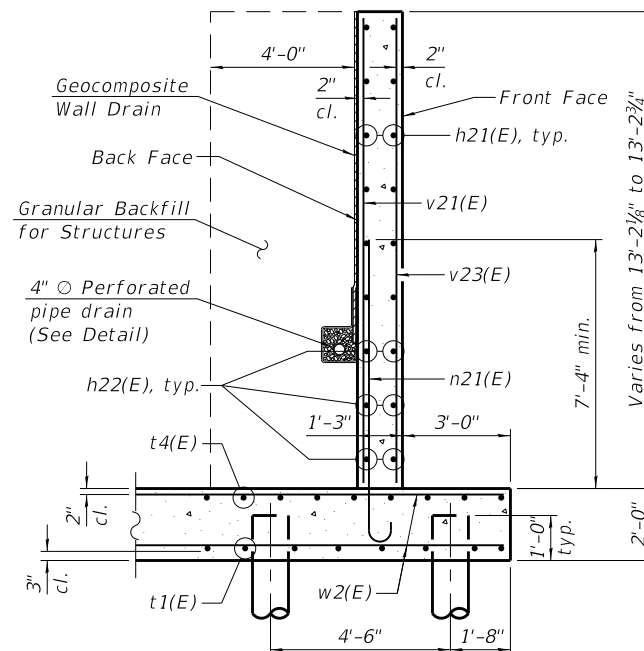
**ABUTMENT DETAILS
STRUCTURE NO. 049-6593**

SHEET S-24 OF S-33 SHEETS

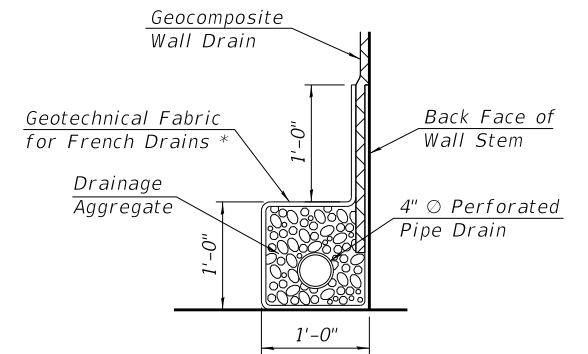
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	102
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



NORTHWEST WINGWALL ELEVATION
(Looking North)

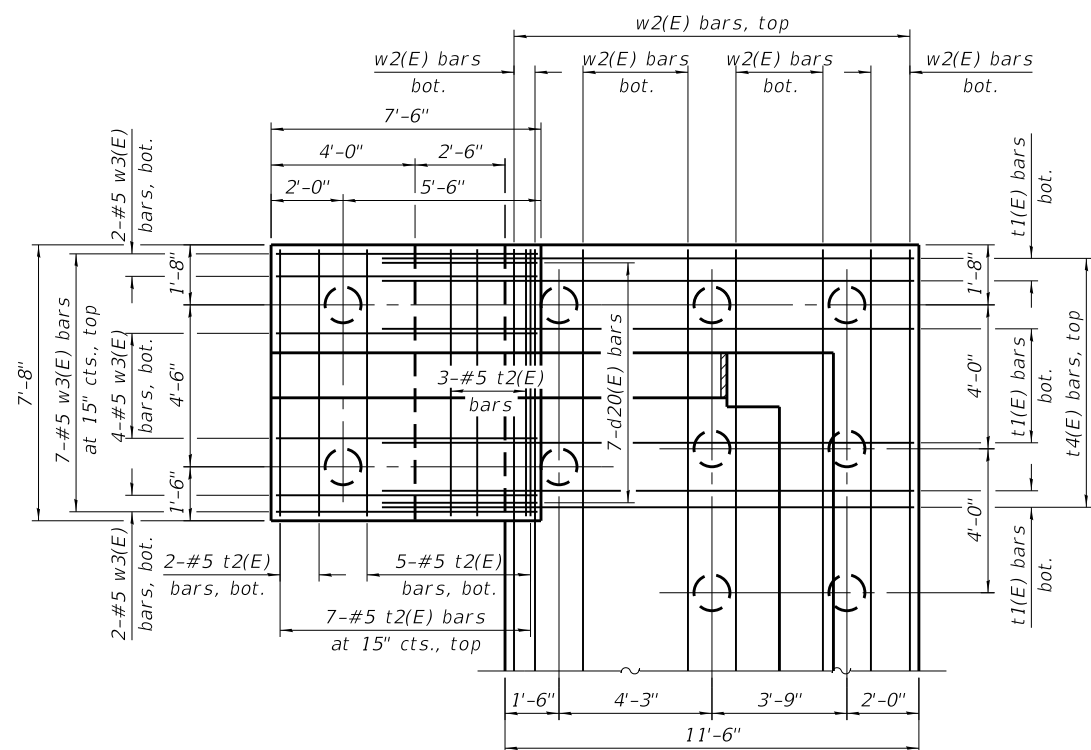


SECTION A-A

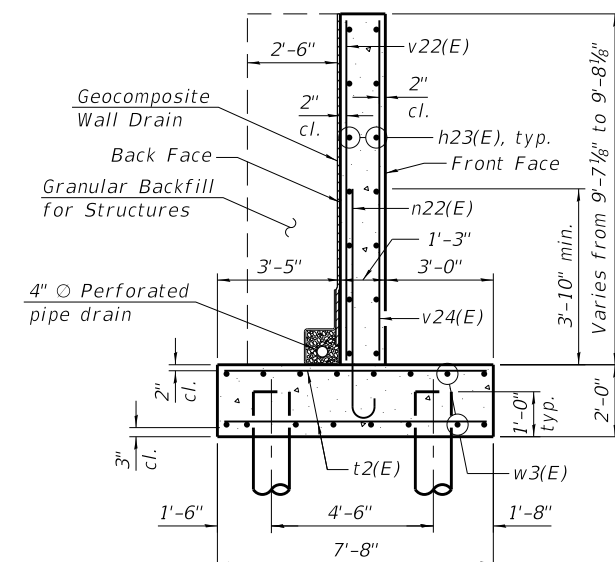


PIPE UNDERDRAIN DETAIL

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



NORTHWEST WINGWALL PLAN



SECTION B-B

MINIMUM BAR LAP

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

NW PILE DATA

Type: Metal Shell 12"x0.25"
 Nominal Required Bearing: 338 Kips
 Factored Resistance Available: 186 Kips
 Est. Length: 33'-6"
 No. Production Piles: 2
 No. Test Piles: 0

Notes:
 For quantities and bar bending diagrams, see Sheet S-24 of S-33.

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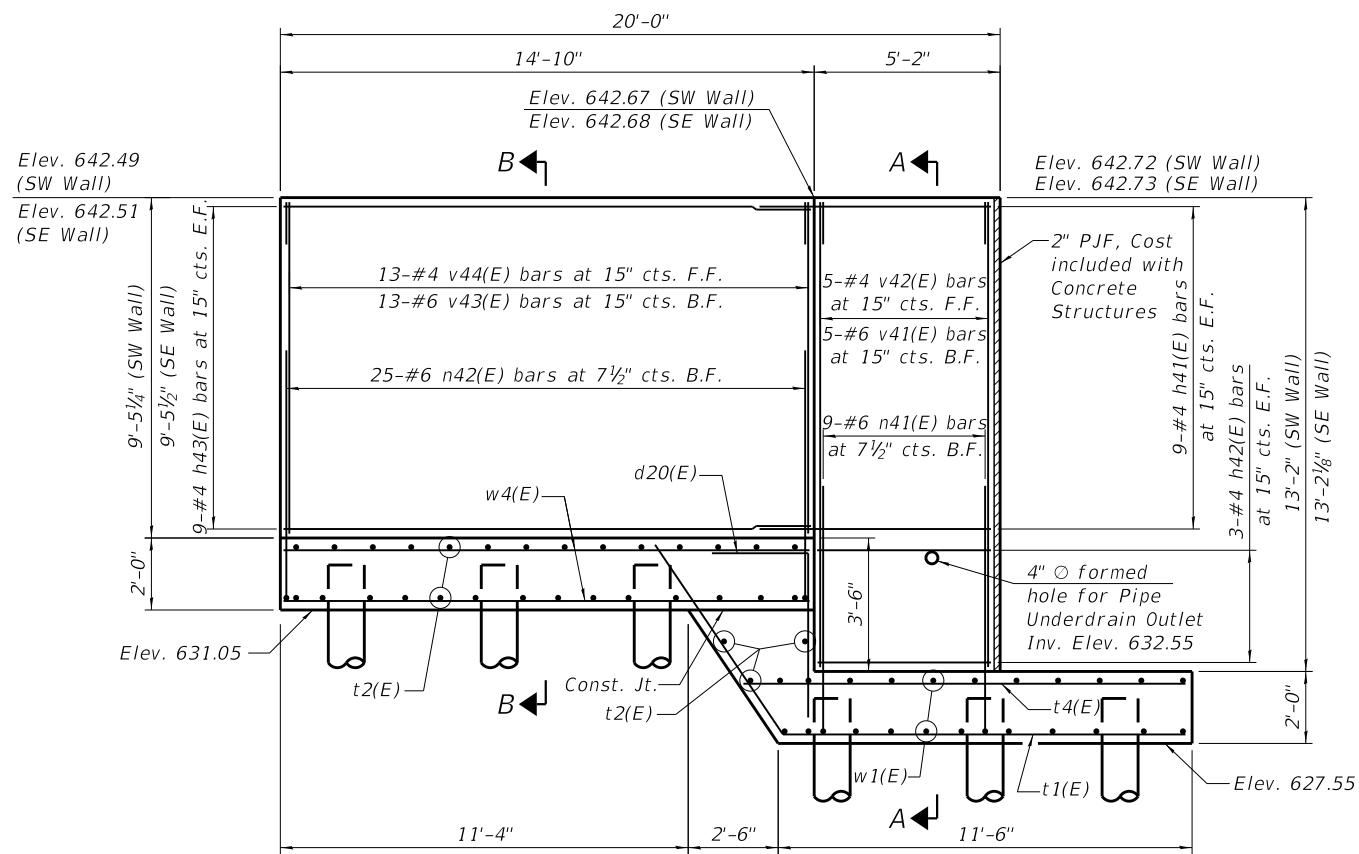
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**NORTHWEST WINGWALL DETAILS
 STRUCTURE NO. 049-6593**

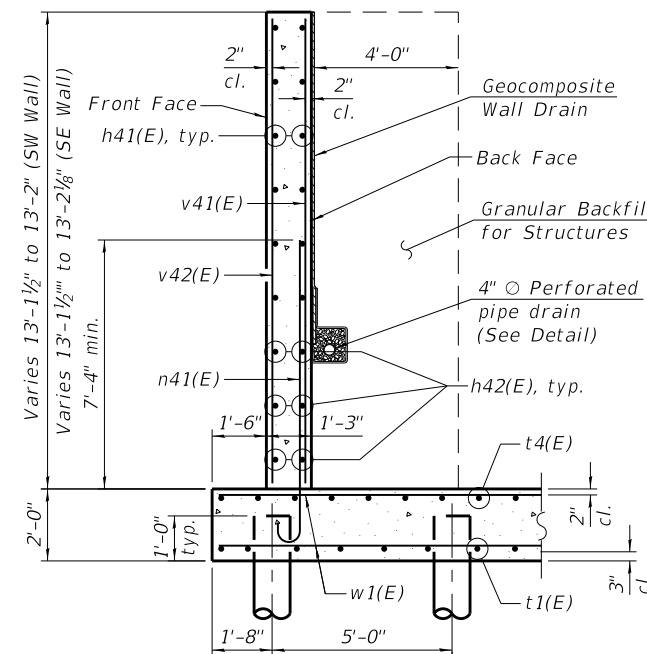
SHEET S-25 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				

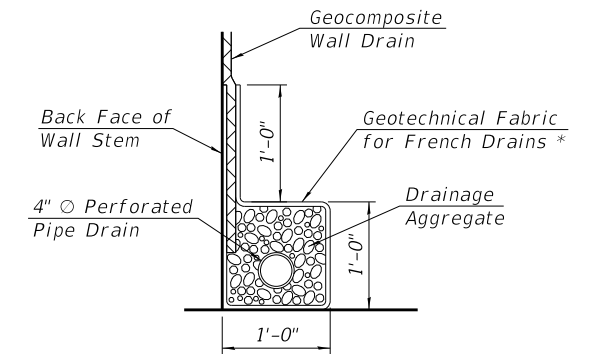


SOUTHWEST WINGWALL ELEVATION

(Looking North)
(Southeast Wingwall similar)



SECTION A-A

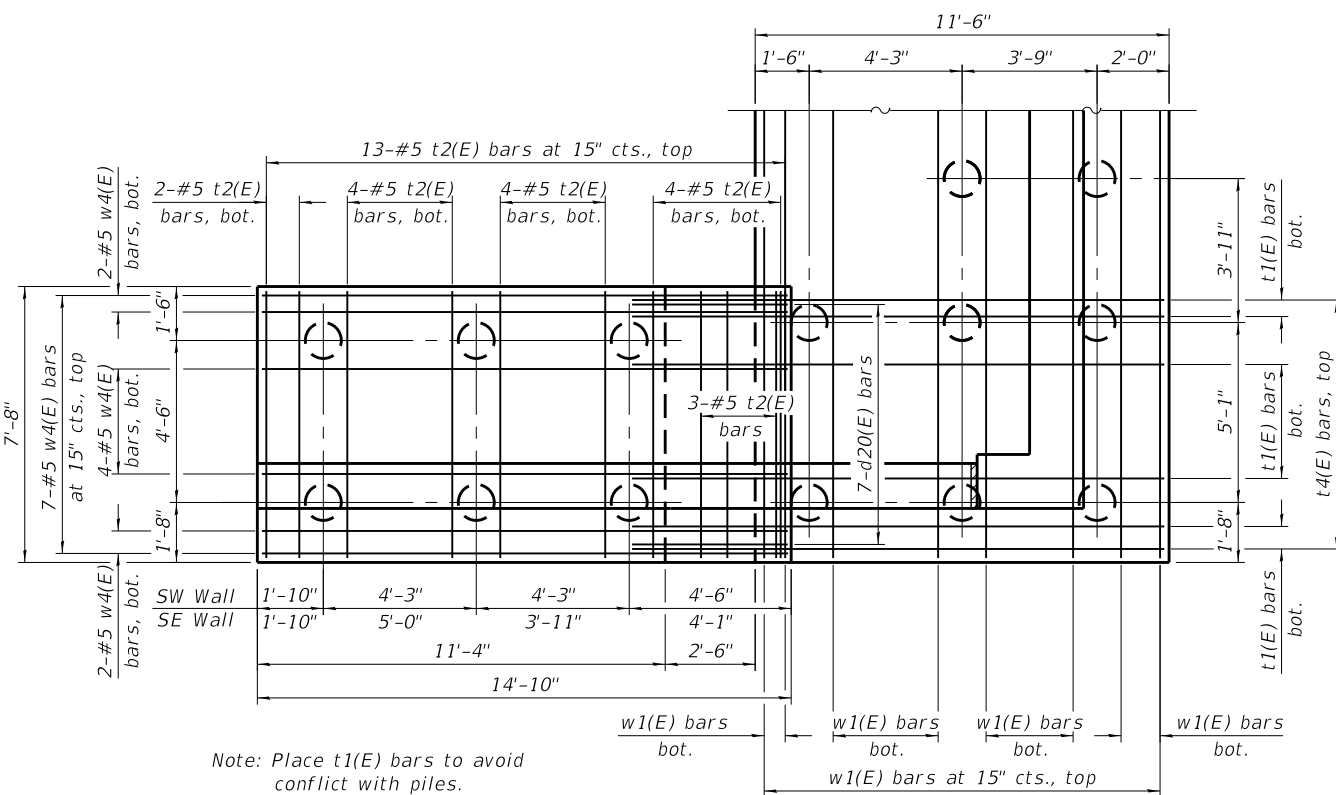


PIPE UNDERDRAIN DETAIL

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

MINIMUM BAR LAP

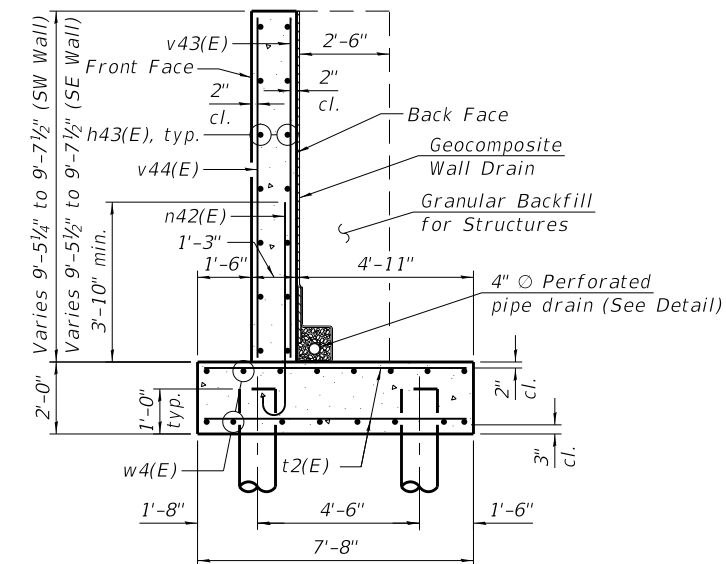
- #4 bar = 2'-11"
- #5 bar = 3'-7"
- #6 bar = 4'-4"



SOUTHWEST WINGWALL PLAN

(Southeast Wingwall similar)

Note: Place t1(E) bars to avoid conflict with piles.



SECTION B-B

SW PILE DATA

Type: Metal Shell 12"x0.25"
Nominal Required Bearing: 338 Kips
Factored Resistance Available: 186 Kips
Est. Length: 33'-6"
No. Production Piles: 6
No. Test Piles: 0

SE PILE DATA

Type: Metal Shell 12"x0.25"
Nominal Required Bearing: 260 Kips
Factored Resistance Available: 143 Kips
Est. Length: 39'-6"
No. Production Piles: 6
No. Test Piles: 0

Notes:
For quantities and bar bending diagrams, see Sheet S-24 of S-33.

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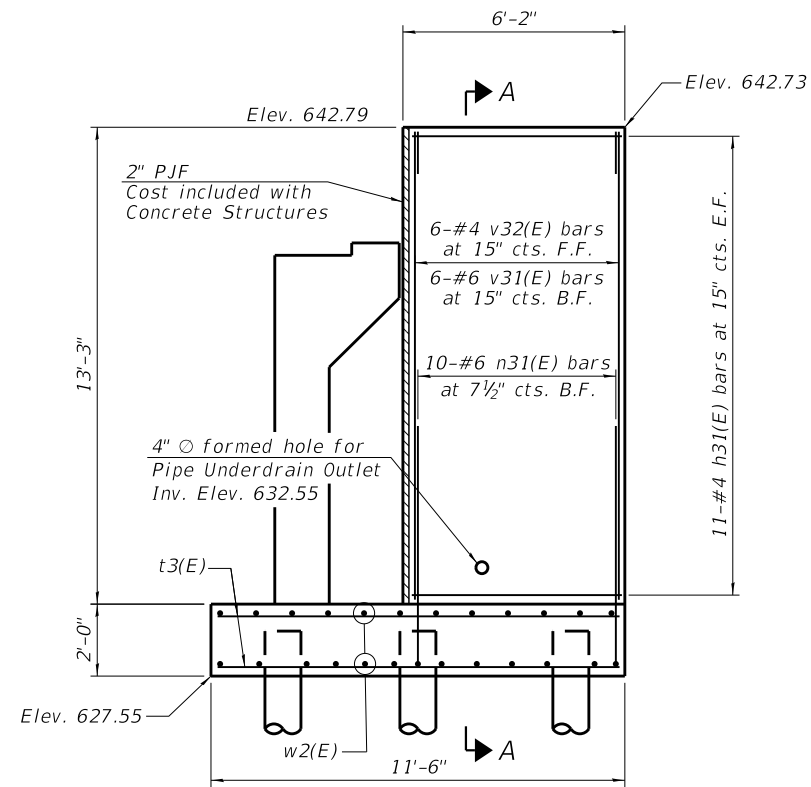
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PLOT SCALE =	CHECKED - SSM	REVISED -
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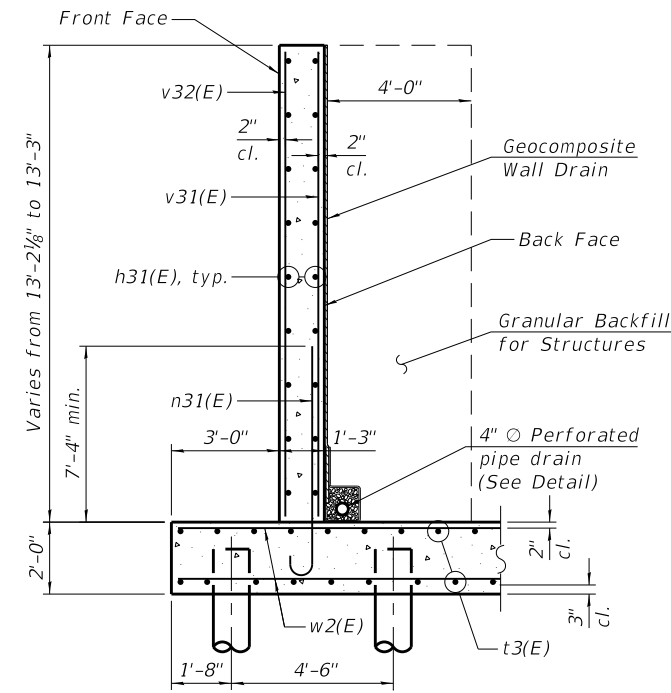
SOUTHWEST & SOUTHEAST WINGWALL DETAILS
STRUCTURE NO. 049-6593

SHEET S-26 OF S-33 SHEETS

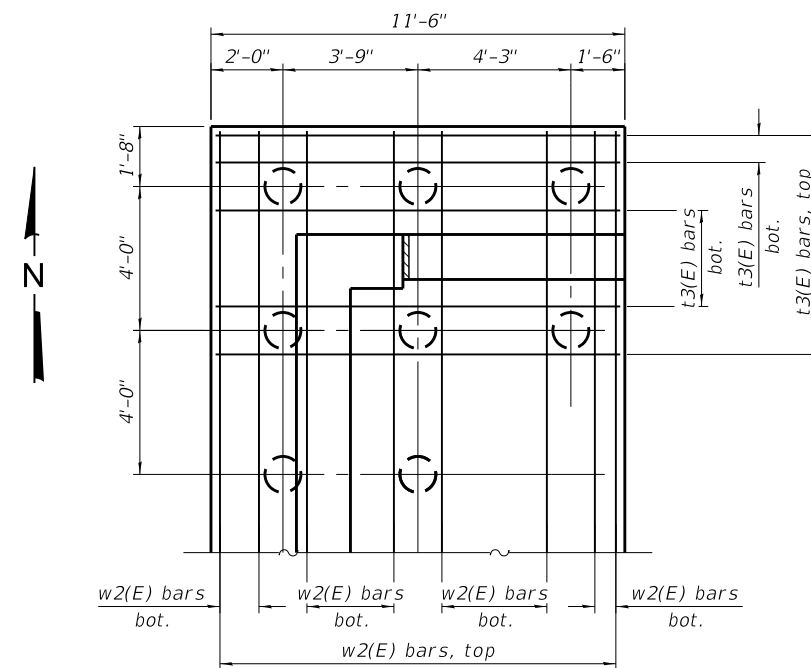
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	104
			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



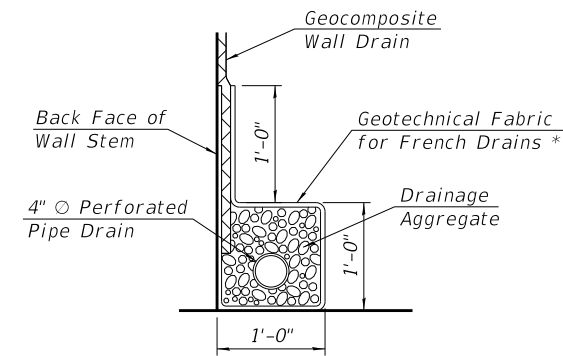
NORTHEAST WINGWALL ELEVATION
(Looking North)



SECTION A-A



NORTHEAST WINGWALL PLAN



PIPE UNDERDRAIN DETAIL

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

MINIMUM BAR LAP

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

Notes:
For quantities and bar bending diagrams, see Sheet S-24 of S-33.

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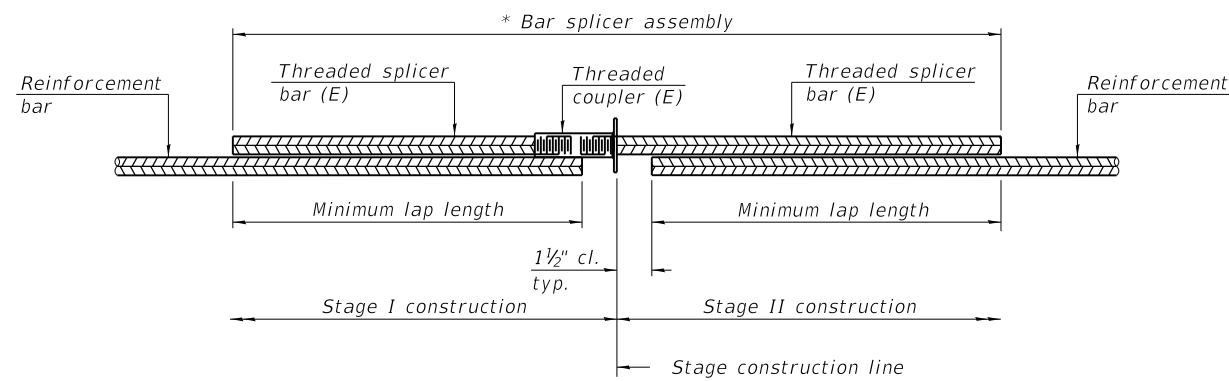
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**NORTHEAST WINGWALL DETAILS
STRUCTURE NO. 049-6593**

SHEET S-27 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	105
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

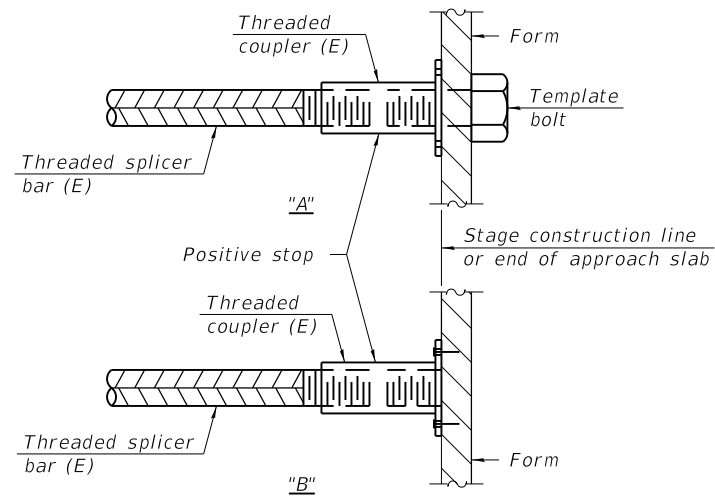


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

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

Location	Bar size	No. assemblies required	Minimum lap length
W. Abutment	#5	44	3'-7"
E. Abutment	#5	44	3'-7"
Approach Footing	#5	80	3'-2"
Deck	#5	274	3'-6"
Diaphragm	#6	20	4'-0"
Diaphragm	#4	4	2'-5"
Approach Slab	#5	92	3'-4"
Approach Slab	#8	120	4'-9"

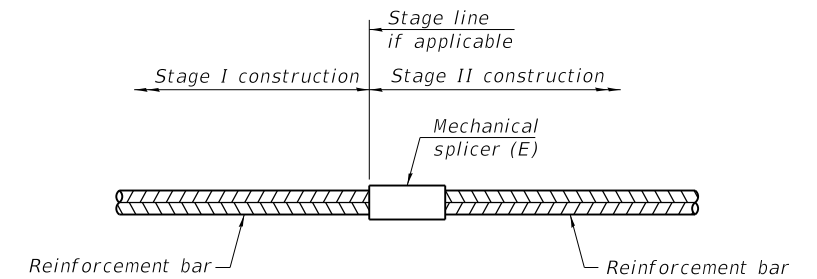


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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BSD-1

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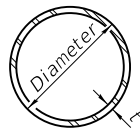
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 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAIL
 STRUCTURE NO. 049-6593**

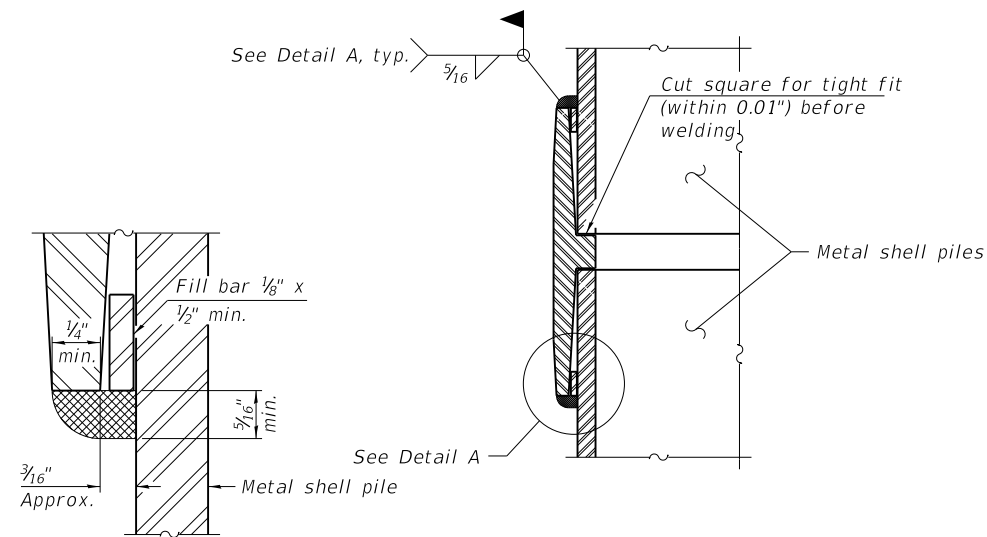
SHEET S-28 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	



METAL SHELL PILE TABLE

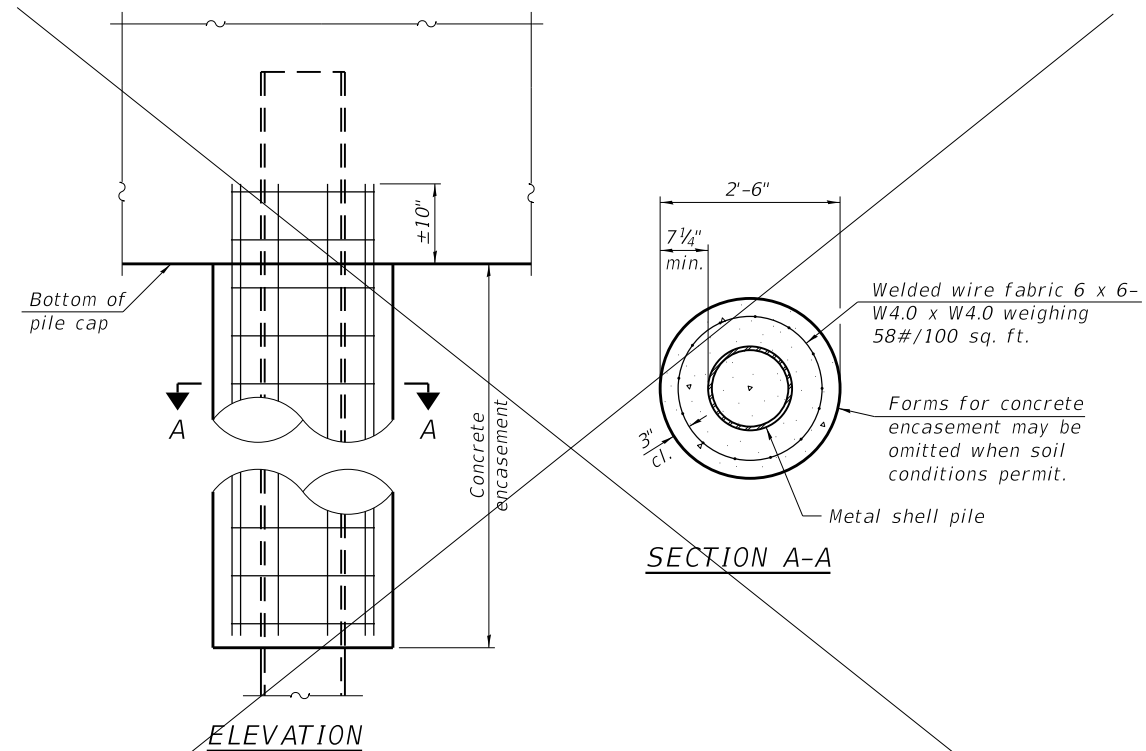
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

WELDED COMMERCIAL SPLICE

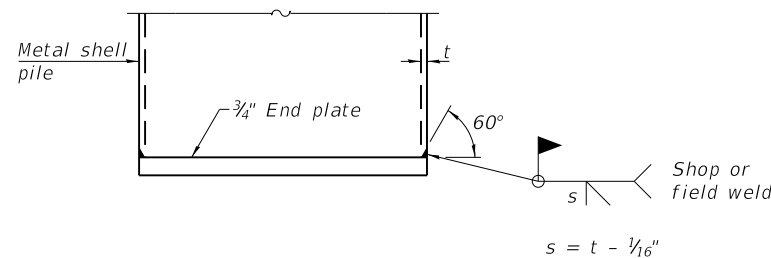
Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.



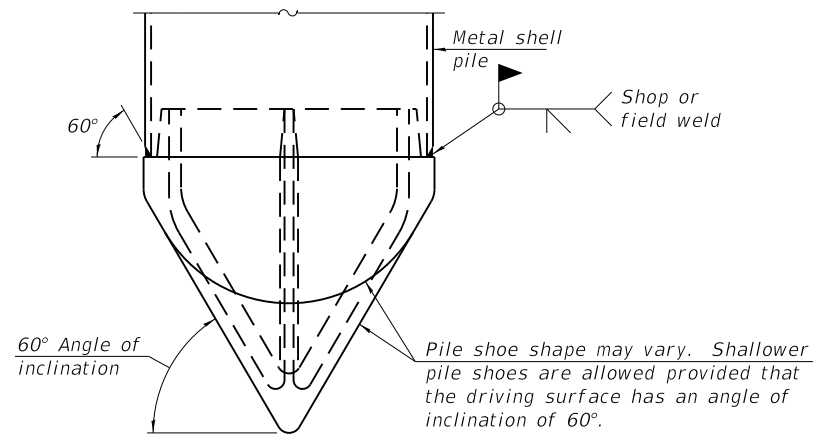
ELEVATION

SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
 (When specified)

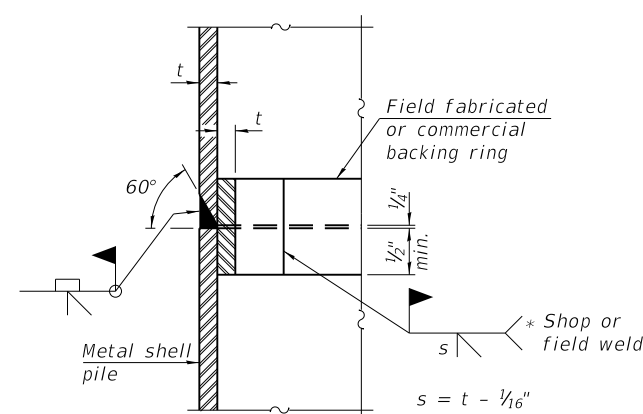


END PLATE ATTACHMENT



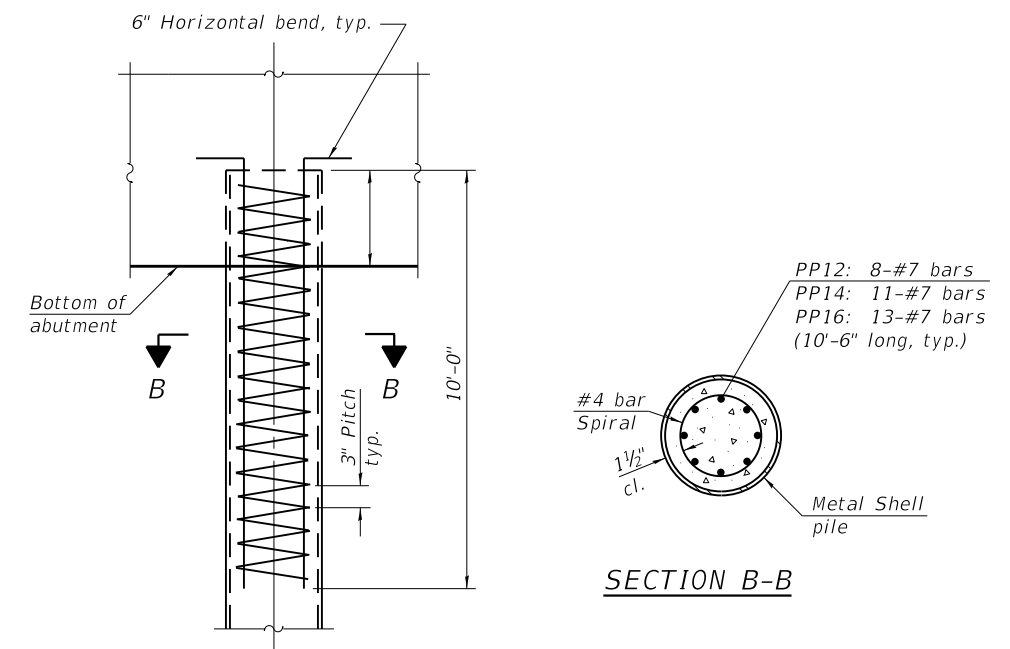
PILE SHOE ATTACHMENT

(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).



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 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.

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**METAL SHELL PILE DETAILS
 STRUCTURE NO. 049-6593**

SHEET S-29 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	107
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H33	



File No. 21919 **BORING LOG** B-1
 Client Ciorba Group, Inc. Sheet 1 of 4
 Project Park Avenue Bridge Date 2/25/15
 Location Highland Park, IL Drilled By AC
 Sta. 649+20, 20' L. of CL Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
643.1'	SEE CORE LOG											
	Brown fine-medium sand & gravel, some coarse sand, damp-saturated, very dense - Fill (frozen to 2.5')			1	SS	18"	58 28 27	55		12.2		
640.3'	Brown fine-medium sand & gravel, some coarse sand, damp-saturated, medium dense - Fill			5	SS	15"	10 7 5	12		4.6		
637.8'	Brown fine-medium sand & gravel, some coarse sand, damp-saturated, loose - Fill			3	SS	14"	3 3 3	6		4.5		
				10	SS	12"	3 3 3	6		4.5		
631.3'	Gray silt, some clay, trace sand & gravel, very damp, loose - Fill			5	SS	10"	2 2 4	6		7.5		
				15	SS	7"	2 2 4	6		23.0		
				7	SS	8"	3 3 3	6		27.6		
625.8'	Gray fine sand, trace medium-coarse sand & gravel, saturated, very loose			8	SS	15"	2 1 3	4		19.1		
623.8'				20	SS	15"	1 1 3	4				

Water Level — depth, ft. elev., ft.
 - while drilling: 12.0
 - after drilling: 17.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b



File No. 21919 **BORING LOG** B-1
 Client Ciorba Group, Inc. Sheet 2 of 4
 Project Park Avenue Bridge Date 2/25/15
 Location Highland Park, IL Drilled By AC
 Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray fine sand, trace medium-coarse sand & gravel, saturated, medium dense			9	SS	18"	4 5 6	11		18.5		
619.8'	Gray clay, some silt, trace sand & gravel, damp, tough to very tough			25	SS	18"	5 10 10	20	2.5	15.7	119.2	1.8
				11	SS	18"	6 7 6	13	2.0	16.5	121.3	1.9
				30	SS	18"	3 5 7	12	3.0	16.1	122.7	2.3
611.8'	Gray sand & silt, trace clay, damp, medium dense			35	SS	18"	7 11 12	23		12.0		
606.8'	Gray clay, some silt, trace sand & gravel, damp, very tough						5 9					
603.8'				40	SS	18"	1 1 11	20	4.5+	17.4	116.9	2.3

Water Level — depth, ft. elev., ft.
 - while drilling: 12.0
 - after drilling: 17.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b



File No. 21919 **BORING LOG** B-1
 Client Ciorba Group, Inc. Sheet 3 of 4
 Project Park Avenue Bridge Date 2/25/15
 Location Highland Park, IL Drilled By AC
 Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	40	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray clay, some silt, trace sand & gravel, damp, hard						12 15					
				45	SS	18"	14 14	29	4.5+	15.1	123.4	5.4
				50	SS	18"	9 18 20	38	4.5+	15.3	125.9	5.4
591.8'	Gray silt, trace fine sand, damp, very dense			55	SS	18"	37 52 68	120		11.1		
586.8'	Gray clay, some silt, trace sand & gravel, damp, very tough						10 11					
583.8'				60	SS	18"	16 16	27	4.5+	17.3	118.2	3.0

Water Level — depth, ft. elev., ft.
 - while drilling: 12.0
 - after drilling: 17.0
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

MODEL: Default
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PLOT DATE =		

STATE OF ILLINOIS
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SOIL BORING LOGS 1
 STRUCTURE NO. 049-6593

SHEET S-30 OF S-33 SHEETS

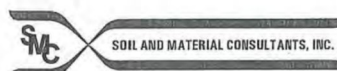
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	108
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



File No. 21919 **BORING LOG** B-1
 Client Ciorba Group, Inc. Sheet 4 of 4
 Project Park Avenue Bridge Date 2/25/15
 Location Highland Park, IL Drilled By AC
 Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
		60									
	Gray clay, some silt, trace sand & gravel, damp, hard										
		65	19	SS	18"	11	19	4.5+	13.4	132.4	4.3
575.3'											
	Gray clay, some silt, trace sand & gravel, damp, very tough										
		70	20	SS	18"	12	21	3.25	13.6	125.3	2.9
568.8'											
	End of Boring										
		75	21	SS	18"	15	27	4.5+	16.4	117.8	3.8
		80									

Water Level - depth, ft. elev., ft.
 - while drilling: 12.0 _____
 - after drilling: 17.0 _____
 - hrs. after drilling: _____
 S - sample T - type: J(Jar), SS(split-spoon), ST(shealy tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons/sq. ft.



File No. 21919 **BORING LOG** B-2
 Client Ciorba Group, Inc. Sheet 1 of 4
 Project Park Avenue Bridge Date 4/7/15
 Location Highland Park, IL Drilled By AC/DB
 Sta. 650+70, 15' R. of CL Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
642.9'	SEE CORE LOG										
641.6'	Brown sand & gravel, damp 5-3/4" Fill										
	Brown-dark brown-black silt, some clay, trace sand & gravel, damp, loose - Fill		1	SS	14"	4	8		12.9		
639.4'											
	Brown-dark brown fine-sand, trace medium-coarse sand & silt, damp, very loose - Fill		5	2	SS	16"	1	3		12.8	
			3	SS	15"	1	2		12.8		
633.9'											
	Brown fine sand, trace medium-coarse sand, very damp-saturated very loose - Fill		10	4	SS	18"	2	3		16.5	
631.4'											
	Gray-dark gray silt, some sand, trace clay, very damp, very loose Fill		5	SS	16"	1	3		15.0		
			15	6	SS	14"	1	2		32.3	
626.4'											
	(a) see page 4 of 4		7	SS	15"	3	5		21.4		
624.4'	Gray clay, some silt, trace sand, damp		8						16.3		
	Gray fine sand, very damp, medium dense		9						16.1		
623.4'			10						14.5		
622.9'	(b) see page 4 of 4		20								

Water Level - depth, ft. elev., ft.
 - while drilling: 9.0 _____
 - after drilling: 17.0 _____
 - hrs. after drilling: _____
 S - sample T - type: J(Jar), SS(split-spoon), ST(shealy tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b



File No. 21919 **BORING LOG** B-2
 Client Ciorba Group, Inc. Sheet 2 of 4
 Project Park Avenue Bridge Date 4/7/15
 Location Highland Park, IL Drilled By AC/DB
 Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
621.9'	Gray silt, trace fine sand & clay, damp, medium dense										
	Gray fine sand, some silt, very damp, medium dense		11	SS	18"	5	10		18.5		
619.9'											
	Gray silt, trace fine sand, damp-very damp, medium dense		25	12	SS	18"	12	25		17.3	
			13	SS	18"	10	18		16.4		
614.4'											
	Gray clay, some silt, trace sand & gravel, damp, stiff to tough		30	14	SS	18"	5	9	2.0	16.3	
			35	1.5	SS	18"	7	12	2.25	13.7	133.2 1.8
603.9'											
	Gray silt, some clay, trace fine sand, damp, dense		40	16	SS	18"	20	34		12.7	

Water Level - depth, ft. elev., ft.
 - while drilling: 9.0 _____
 - after drilling: 17.0 _____
 - hrs. after drilling: _____
 S - sample T - type: J(Jar), SS(split-spoon), ST(shealy tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %
 N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"
 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu.ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

MODEL: Default
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USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - SSM	REVISED -
PLOT DATE =	DRAWN - CAB	REVISED -
	CHECKED - SSM	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 2
 STRUCTURE NO. 049-6593

SHEET S-31 OF S-33 SHEETS

F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	109
CONTRACT NO.			61H33	
ILLINOIS FED. AID PROJECT				



File No. 21919 **BORING LOG** B-4

Client Ciorba Group, Inc. Sheet 4 of 4

Project Park Avenue Bridge Date 4/2/15

Location Highland Park, IL Drilled By AC/DB

Comments _____

Sta. 651+80, 10' L. of CL Equipment CME 45B H.A. Other Logged By DA

Elev., ft.	Description	Depth, ft.	O	S	T	R	B	N	Pen.	W	Uw	Qu
641.7'	SEE CORE LOG											
640.3'	Black-dark gray silt, some clay, trace sand & gravel, damp, loose - Fill			1	SS	16"	4	7		15.9		
638.7'	Brown-gray-black clay, some silt, trace sand & gravel, damp, very tough - Fill			2	SS	18"	5	8	2.5	22.1	105.9	2.1
636.2'	Black silt, some clay, trace sand, damp, loose (topsoil)											
634.7'	Brown-gray clay, some silt, trace sand, damp, tough			3						25.1		
633.7'	Gray to brown fine sand, very damp, medium dense			4	SS	18"	4	8	1.75	36.1		
631.7'	End of Boring			5	SS	18"	6	11		21.6		
		15										
		20										

Water Level — depth, ft. elev., ft.
 - while drilling: 1.3
 - after drilling: 8.5
 - hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(Shelby tube) R - recovery length, in.
 B - Standard Penetration Test (SPT), blows/ 6" interval. W - water content, %.
 N - SPT, blows/ foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30".
 Pen - pocket penetrometer reading, tons/ sq. ft. Uw - dry unit weight of soil, lbs./ cu. ft.
 Qu - unconfined compressive strength, tons/ sq. ft.

F-111b

MODEL: Default
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 3/2/2022 3:46:23 PM



USER NAME =	DESIGNED - JSR	REVISED -
PLOT SCALE =	CHECKED - SSM	REVISED -
PLOT DATE =	DRAWN - CAB	REVISED -
	CHECKED - SSM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS 4
STRUCTURE NO. 049-6593**

SHEET S-33 OF S-33 SHEETS

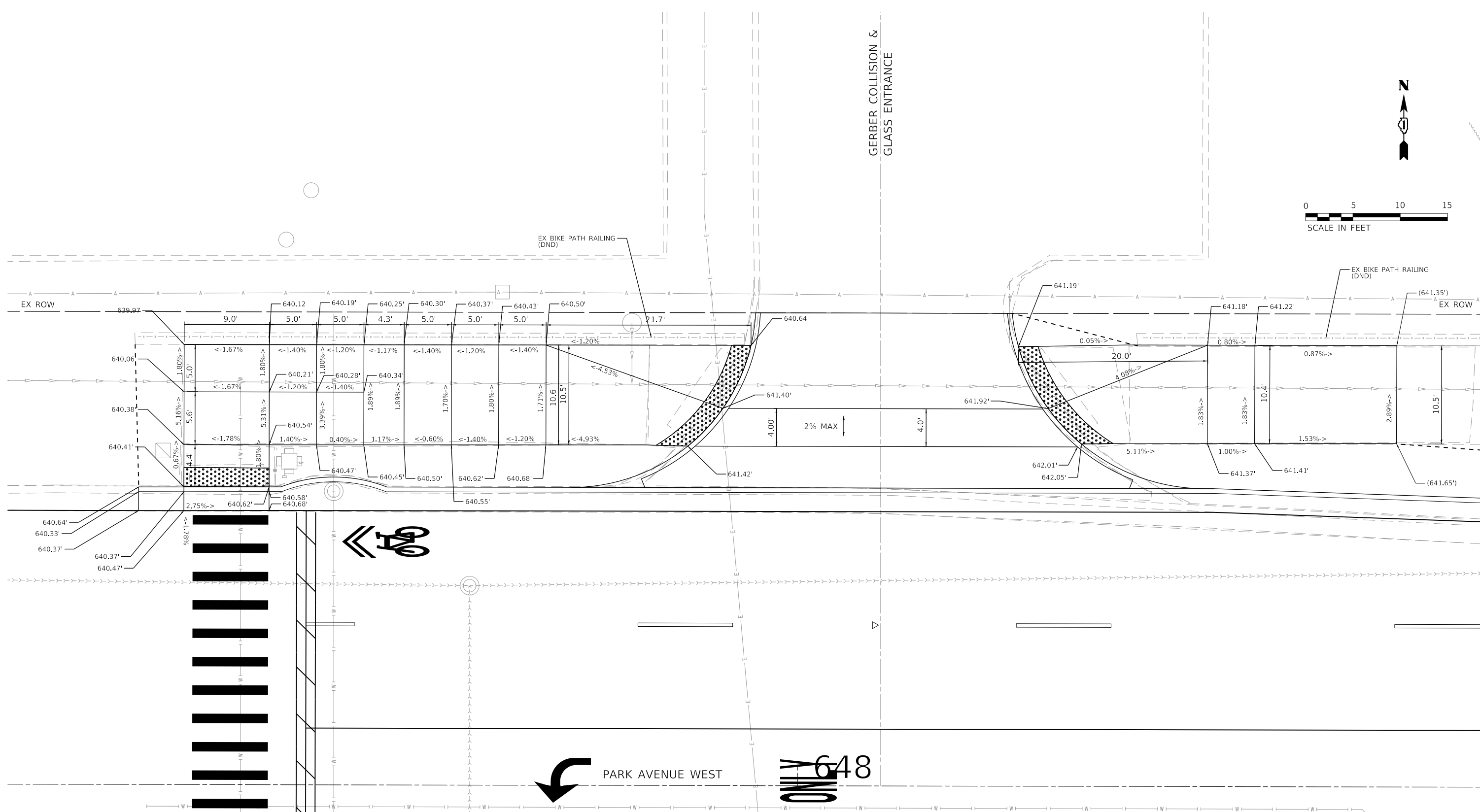
F.AJ RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	111
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	



GERBER COLLISION & GLASS ENTRANCE

EX BIKE PATH RAILING (DND)

EX BIKE PATH RAILING (DND)



TBM "CGI 45"
CHISELED "X" ON NORTH EDGE OF SOUTH CONCRETE SIDEWALK WEST OF COMMERCIAL ENTRANCE
ELEV. 638.61
N: 2011806.15
E: 1122205.77

LEGEND

	EXISTING LENGTH		PROPOSED PCC SIDEWALK 5 INCH
	PROPOSED SIDE CURB		DETECTABLE WARNINGS (SPECIAL)
	EXISTING ELEVATION/SLOPE		TOPSOIL EXCAVATION AND PLACEMENT SODDING, SALT TOLERANT

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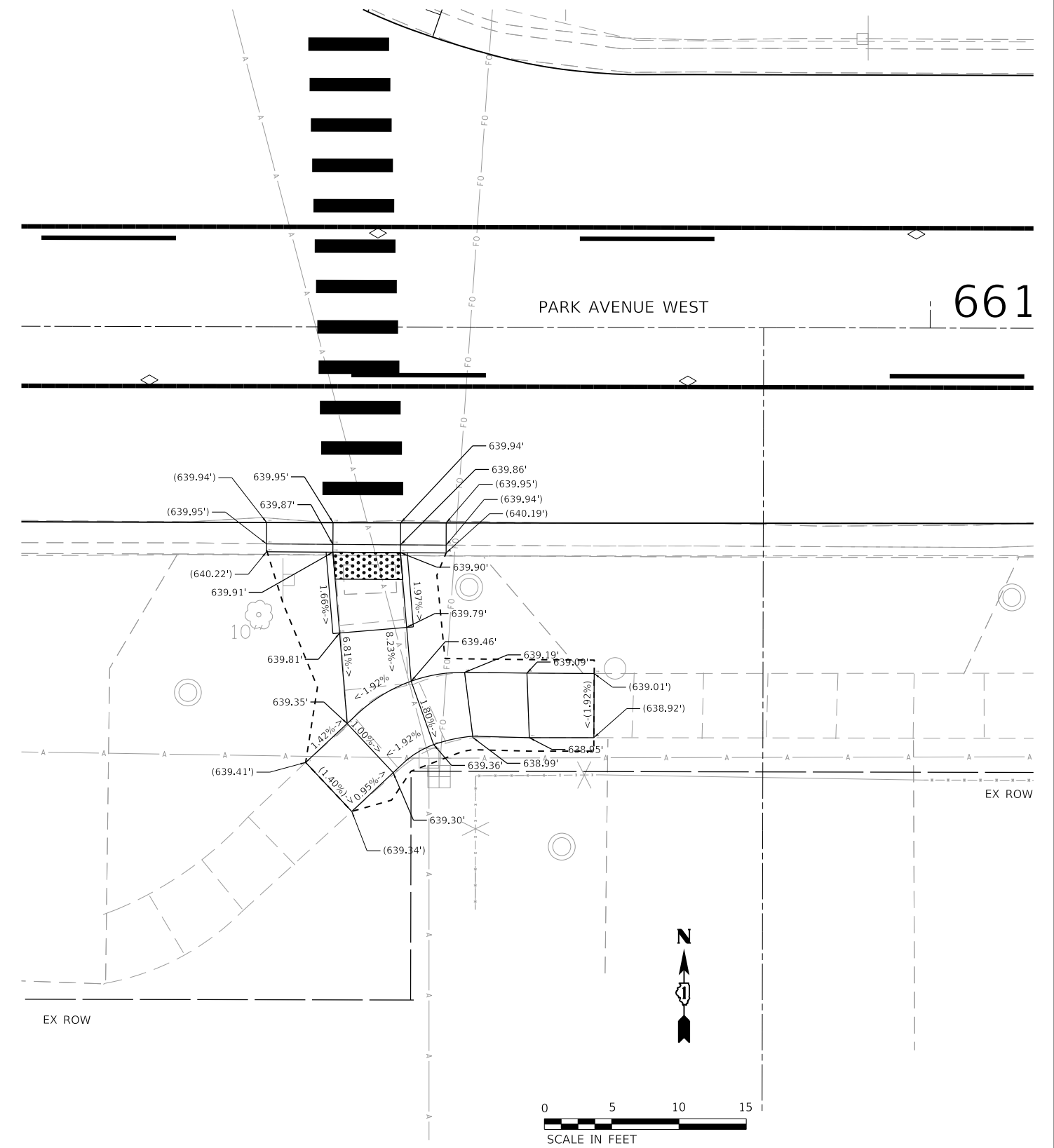
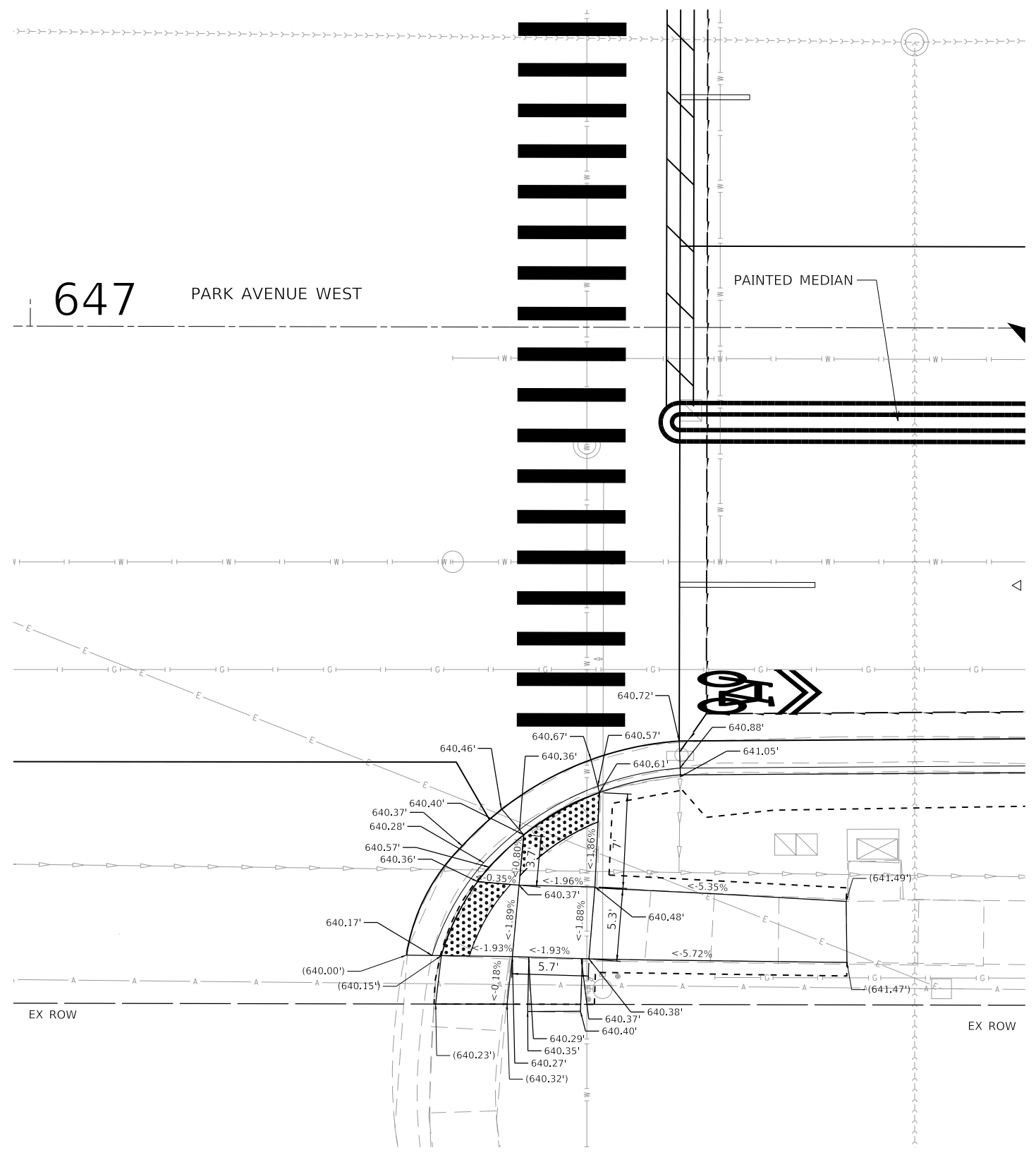
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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SIDEWALK RAMP DETAILS

SCALE: 1" = 5' SHEET 1 OF 3 SHEETS STA. 647+16.00 TO STA. 648+73.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	112
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



TBM "CGI 45"

CHISELED "X" ON NORTH EDGE OF SOUTH CONCRETE SIDEWALK WEST OF COMMERCIAL ENTRANCE

ELEV. 638.61
N: 2011806.15
E: 1122205.77

LEGEND

XX.XX'	EXISTING LENGTH		PROPOSED PCC SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS (SPECIAL)
()	EXISTING ELEVATION/SLOPE		TOPSOIL EXCAVATION AND PLACEMENT SODDING, SALT TOLERANT

TBM "CGI 41"

CHISELED "X" IN TOP OF CURB ON NORTH SIDE OF FAU 1255 AT MIDDLE OF RADIUS RETURN FOR RIGHT TURN ENTRY FOR WEST PARKING LOT ENTRANCE OF COUNTRY CLUB

ELEV. 640.14
N: 2011877.60
E: 1123347.39

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USER NAME = PWICSS	DESIGNED - TMG	REVISED -
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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SIDEWALK RAMP DETAILS**

SCALE: 1" = 5' SHEET 2 OF 3 SHEETS STA. 646+97.00 TO STA. 661+08.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	113
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



HIGHLAND PARK
COUNTRY CLUB ENTRANCE

EX ROW

EX ROW

660+00

PARK AVENUE WEST



TBM "CGI 41"

CHISELED "X" IN TOP OF CURB ON NORTH SIDE OF FAU 1255 AT MIDDLE OF RADIUS RETURN FOR RIGHT TURN ENTRY FOR WEST PARKING LOT ENTRANCE OF COUNTRY CLUB
ELEV. 640.14
N: 2011877.60
E: 1123347.39

LEGEND	
XX.XX'	EXISTING LENGTH
	PROPOSED SIDE CURB
()	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/ TOPSOIL & SOD



USER NAME = PWICSS	DESIGNED - TMG	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - TMG	REVISED -
PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

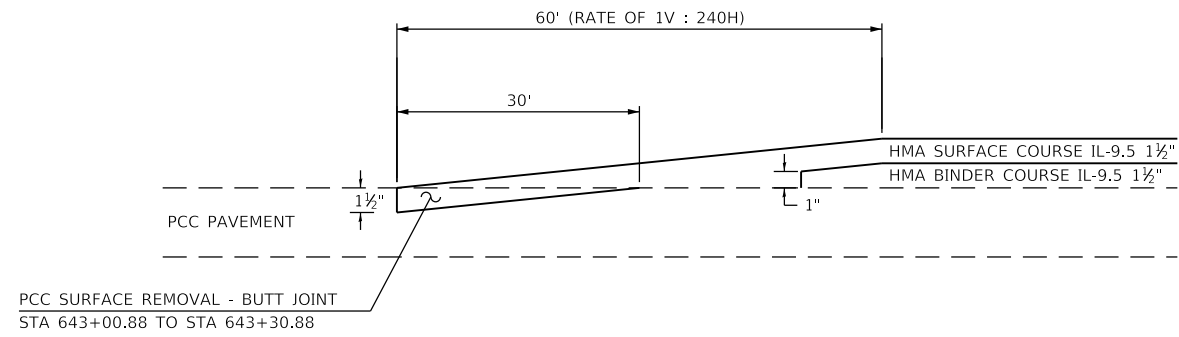
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
SIDEWALK RAMP DETAILS

SCALE: 1" = 5' SHEET 3 OF 3 SHEETS STA. 659+32.00 TO STA. 660+90.00

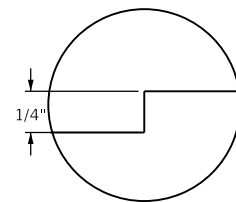
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	114
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

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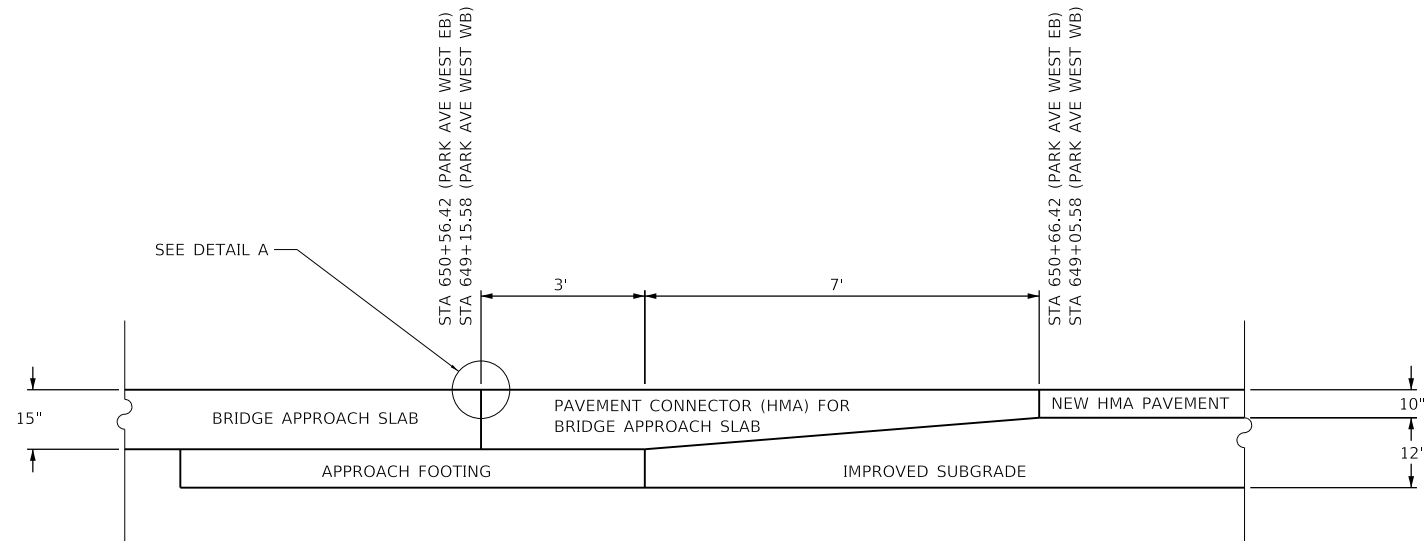


PAVEMENT TRANSITION DETAIL

STA 643+00.88 TO STA 643+60.88



DETAIL A



APPROACH SLAB CONNECTOR DETAIL

PARK AVE WEST TO BRIDGE SURFACE TRANSITION
STATIONS MEASURED AT CENTERLINE OF PARK AVE WEST
NOT TO SCALE

MODEL: D:\draft\...
FILE: 1255_MISC_DETAILS.dwg



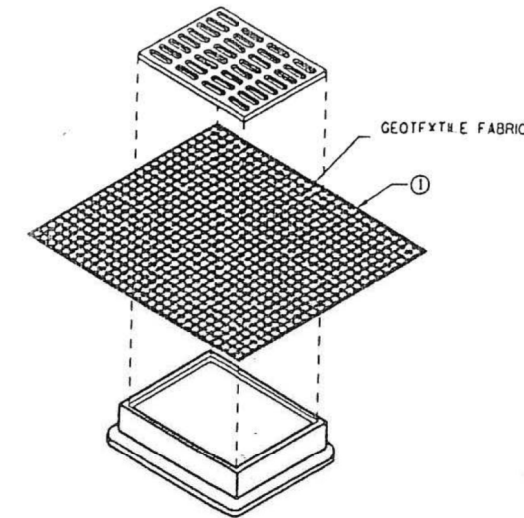
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	DRAWN - TMG	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - MFB	REVISED -
PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

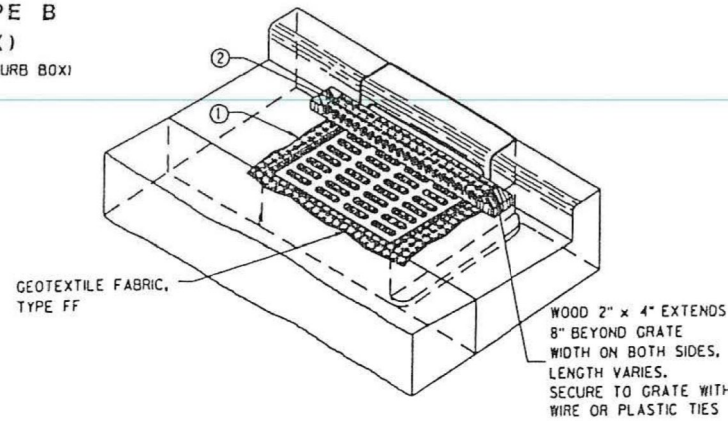
FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
MISCELLANEOUS DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	115
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES:

1. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
2. TYPE C SHALL BE UTILIZED WITH CURB HEADS, A 1 1/2" X 3 1/2" MINIMUM, PIECE OF LUMBER SHALL BE WRAPPED AND SECURED IN THE FABRIC AND PLACED IN FRONT OF THE CURB HEAD AS SHOWN ON THE PLAN. THE LUMBER SHALL NOT BLOCK THE ENTIRE OPENING OF THE CURB BOX AND BE SECURED TO THE GRATE WITH WIRE OR PLASTIC TIES.
3. ALL FABRICS USED AS PART OF AN INLET PROTECTION DEVICE MUST BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEO-TEXTILE FABRIC, IN ACCORDANCE WITH STATE STANDARD SPECS FOR ROAD AND BRIDGES CONSTRUCTION - JANUARY 1, 2012, ARTICLE 1080.05 ON PAGE 971.

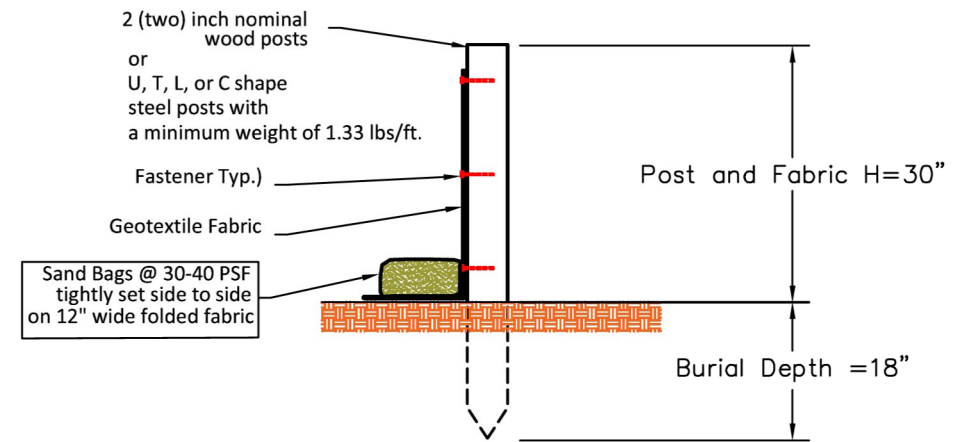


City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

INLET PROTECTION (TYPE B - W/O CURB BOX; TYPE C - W/ CURB BOX)

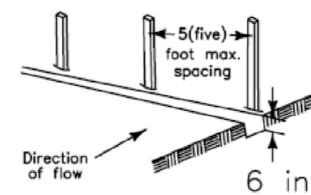
H.P. DWG. No. STR-1037
Drawn By: M.B.
Revised By: E.J.

DATE: 27th Sept. 2013
Approved By: J.M.W.

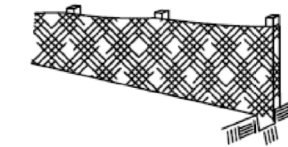


ALTERNATE TO FABRIC TRENCH (WITH SAND BAGS)

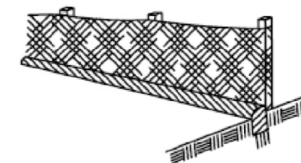
1. Set posts and excavate or slit-trench a 6-inch deep trench upslope along the line of the post



2. Attach the geotextile filter fabric to each post with a minimum of 3 (three) fasteners per post and extend to the bottom of the trench. Acceptable fasteners include staples, zip ties, or wire ties

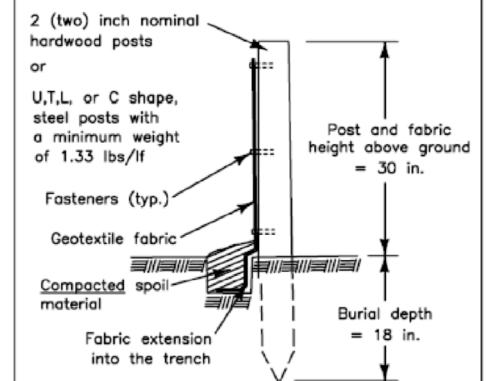


3. Backfill and compact the excavated spoil materials



Geotextile Requirement	Test Method	MARV
Grab strength	ASTM D 4632	
- Machine direction		550 N
- X-machine direction		450 N
Permittivity	ASTM D 4491	0.05 sec-1
Apparent opening size*	ASTM D 4751	0.60 mm
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours

Note:
Value for apparent opening size represents maximum average roll value.



SILT FENCE DETAIL

DATE: 4/21/08 BY: KAW
REVISED: BY:



City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

SILT FENCE DETAIL & Alternate Detail (USE L.C.S.M.C STD. DETAIL)

H.P. DWG. No. FOR-1042A, Silt Fence-Alternate
Drawn By: M.B.
Revised By: E.J.

DATE: 14 Feb 2017
Approved By: E.Gomez



USER NAME = PWICSS	DESIGNED - TMG	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - TMG	REVISED -
PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
CITY OF HIGHLAND PARK DETAILS

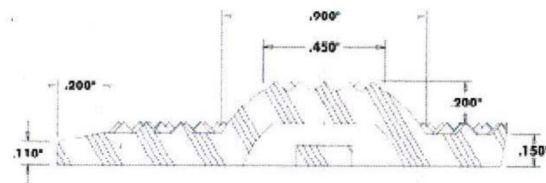
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	116
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

PHYSICAL CHARACTERISTICS - POLYMER

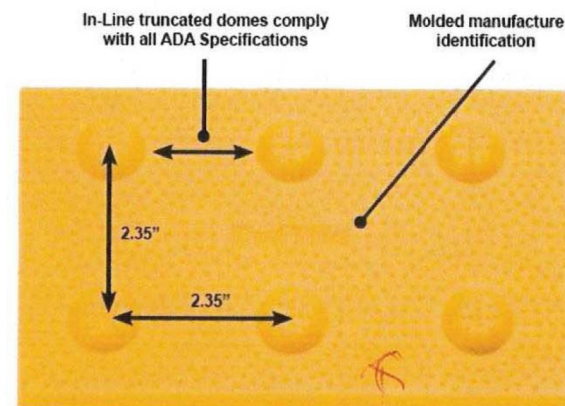
DOMES GEOMETRY

ADA (R305.1.1) specifies truncated domes shall have a base diameter of 0.9" minimum, a top diameter of 50% of the base diameter minimum, and a height of 0.2".



DOMES SPACING

ADA (R305.1.2) specifies truncated domes shall have a center-center of 1.6" to 2.4"



Colonial Red

POLYMER WET-SET (REPLACEABLE) / SURFACE APPLIED (REPLACEABLE)

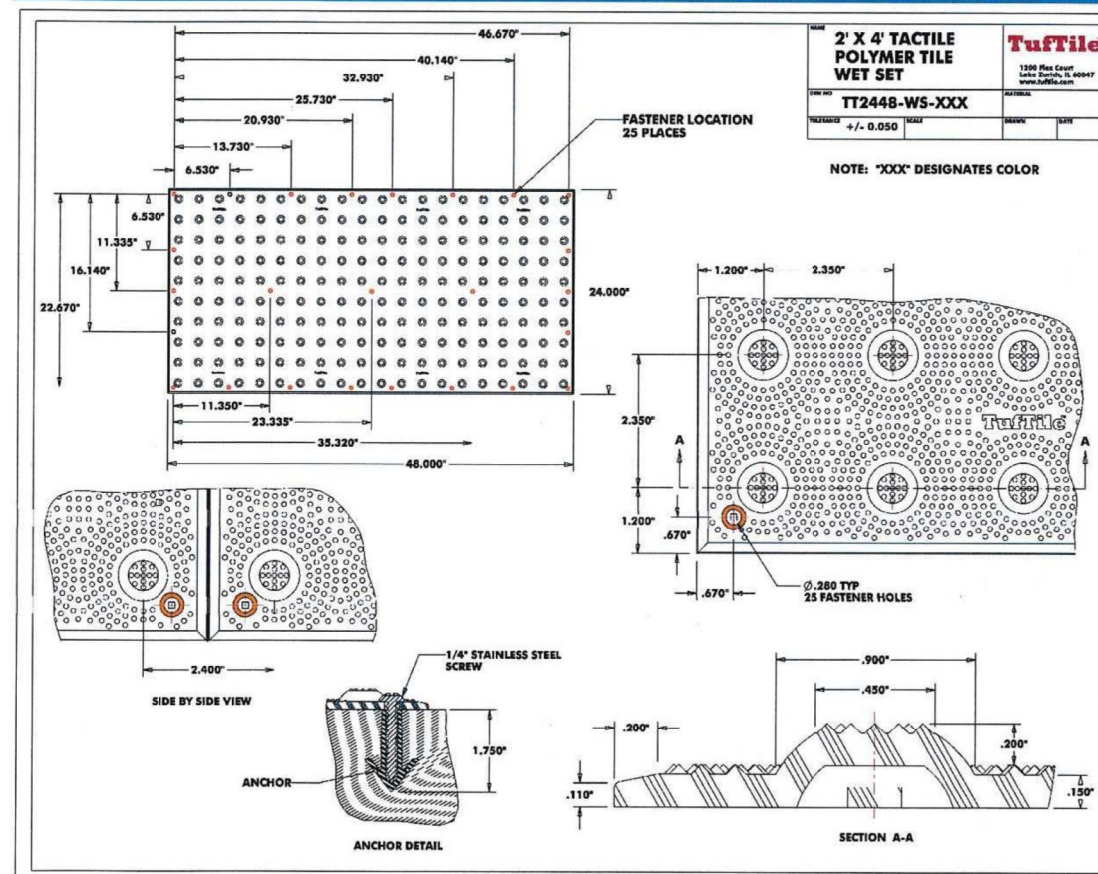
Material - Proprietary Thermoplastic Polyolefin		
ASTM C 501	Abrasion Resistance	124 (lower number = better wear properties)
ASTM C 1028	Slip Resistance	Dry 1.28, Wet 1.23
ASTM D 570	Water Absorption	0.04%
ASTM D 1308	Chemical Stain Effects	No Effect
	-70Hrs/70° C	No Effect
	-Motor Oil	No Effect
	-Antifreeze	No Effect
	-Coffee	No Effect
ASTM B 117	Salt Spray (200 Hrs)	No Change
ASTM D 790	Flexural Strength	3901 psi
ASTM D 638	Tensile Strength	2885 psi
ASTM D 695	Compressive Properties	6844 psi
RCRA-C	Non-Hazardous Classification	Non-Hazardous
ASTM D 1709 (modified)	(Dart Drop Impact Test: 48 lb steel dart with spherical head and 1.8" diameter radius dropped from 2 feet equaling 100ft/lbs of force)	Nubs flattened on tile, tile did not crack

2' X 4' WET SET

(REPLACEABLE)

TACTILE TILE 2.350" DOME SPACING

TEL 888-960-8897 FAX 847-550-8004 www.tuftile.com



Colonial Red (City of Highland Park) 04/23/2015

TufTile™ ADA DETECTABLE WARNING PRODUCTS **1-888-960-8897**
 1200 Flex Court Lake Zurich, IL 60047 **Tuftile.com**

CITY OF HIGHLAND PARK:
 F. MISCELLANEOUS DETAILS
 34. SIDEWALK RAMP ADA DETECTABLE TUFTULE 2'X4' POLYMER PANEL (TT2448-WS-XXX) 4/23/2015 *1/2*

CITY OF HIGHLAND PARK:
 F. MISCELLANEOUS DETAILS
 34. SIDEWALK RAMP ADA DETECTABLE TUFTULE 2'X4' POLYMER PANEL (TT2448-WS-XXX) 4/23/2015



USER NAME = PWICSS	DESIGNED - TMG	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - TMG	REVISED -
PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CITY OF HIGHLAND PARK DETAILS

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

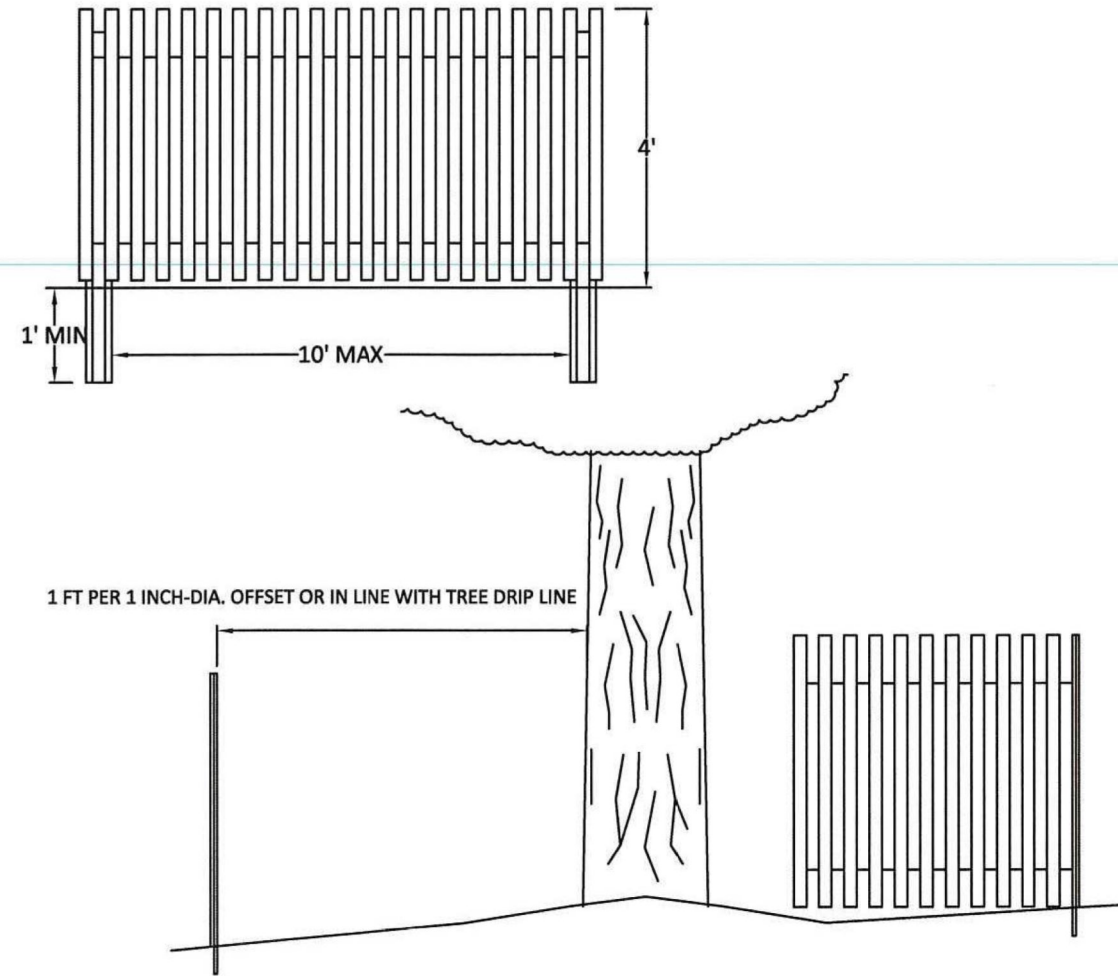
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	117
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

3/2

Install & maintain 4' tall wooden slat fence secured to metal posts spaced a maximum of 10' apart. The tree fence shall be 1 foot from the tree trunk for each inch of diameter measured 4.5' from ground level. The fence must be secured to the metal post with a minimum of 4 ties.

Installation shall be approved by the CITY FORESTER before the start of the project.

Failure to install and maintain protective tree fencing in accordance with City Standards will result in a ticket or a "STOP WORK ORDER" on the project.



City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

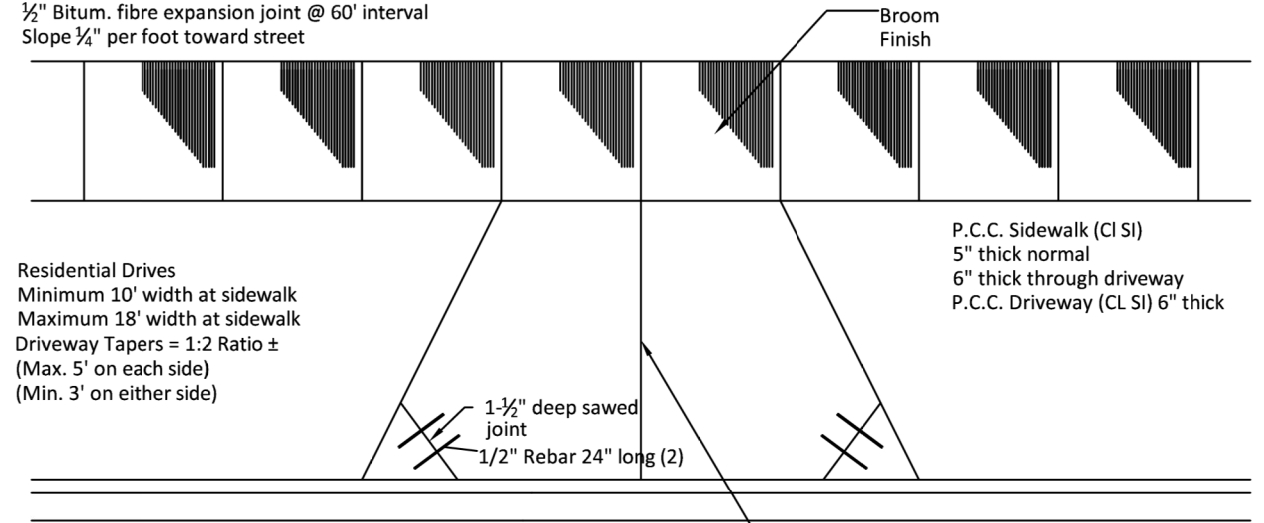
TREE PROTECTION DETAIL

H.P. DWG. No. FOR-1041
Drawn By: M.B.
Revised By: E.J.



DATE: 27th Sept. 2013
Approved By: J.M.W.

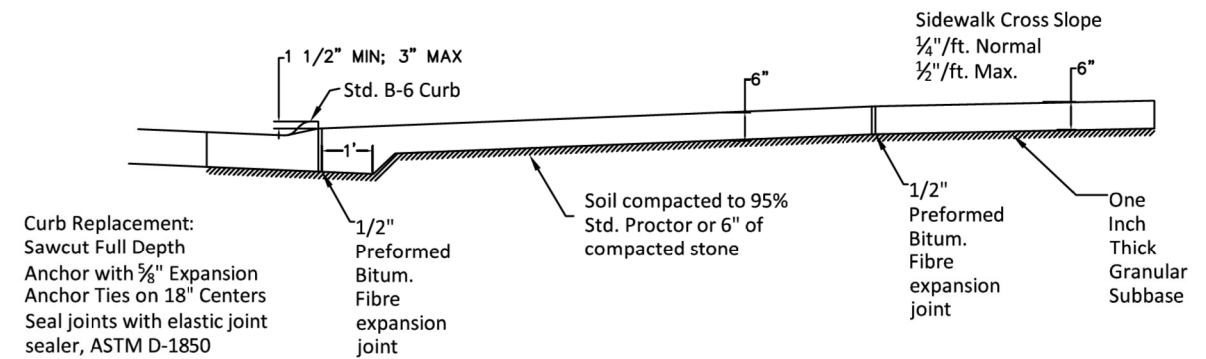
Dummy Contraction Joint every 5'
1-1/2" deep contraction joint @ 15' interval
1/2" Bitum. fibre expansion joint @ 60' interval
Slope 1/4" per foot toward street



All construction to be per Illinois Standard Specifications for Road and Bridge construction.

1-1/2" deep sawed contraction joint(s), maintain width to length ratios of less than 1:1-1/2

Plan View



Curb Replacement: Sawcut Full Depth Anchor with 5/8" Expansion Anchor Ties on 18" Centers Seal joints with elastic joint sealer, ASTM D-1850

Cross Section View



City of Highland Park
Department of Public Works
1150 Half Day Rd, Highland Park, IL 60035

TYPICAL DRIVEWAY & SIDEWALK DETAIL

H.P. DWG. No. STR-1031
Drawn By: M.B.
Revised By: E.J.



DATE: 27th Sept. 2013
Approved By: J.M.W.

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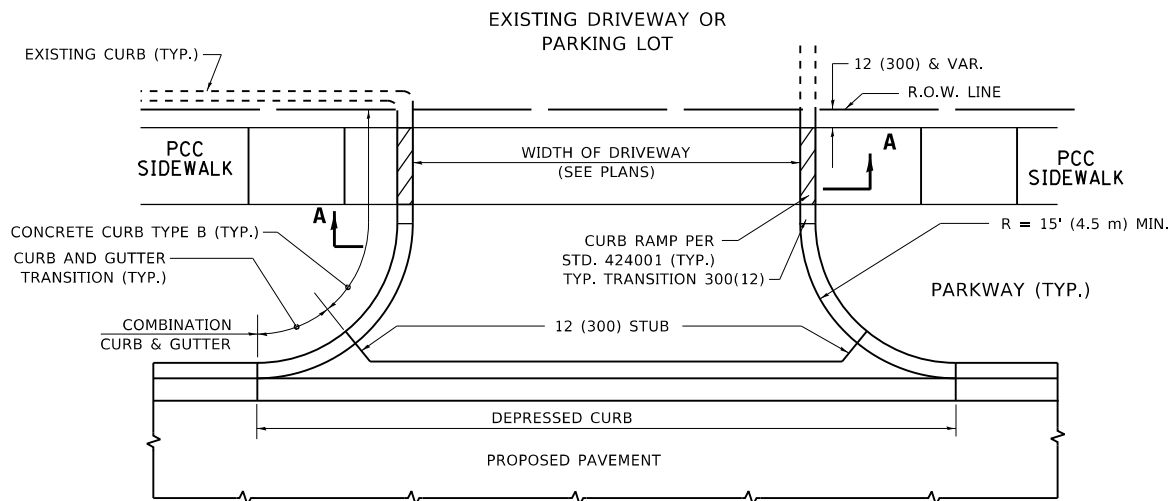
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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

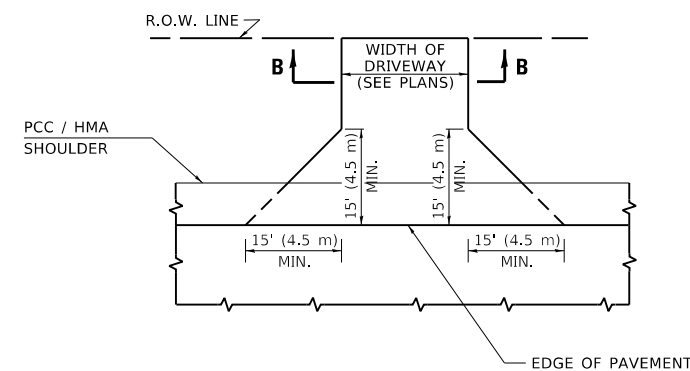
FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
CITY OF HIGHLAND PARK DETAILS

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

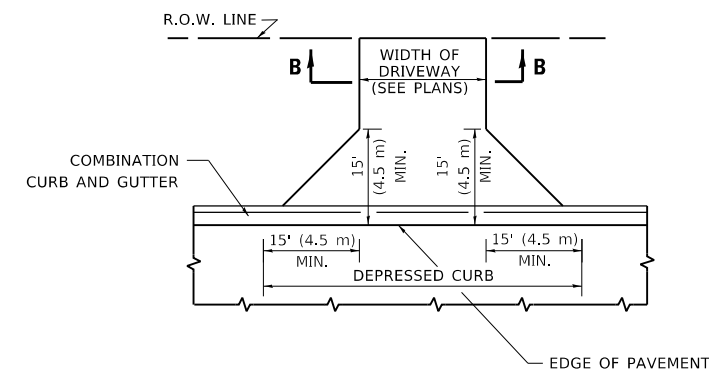
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CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



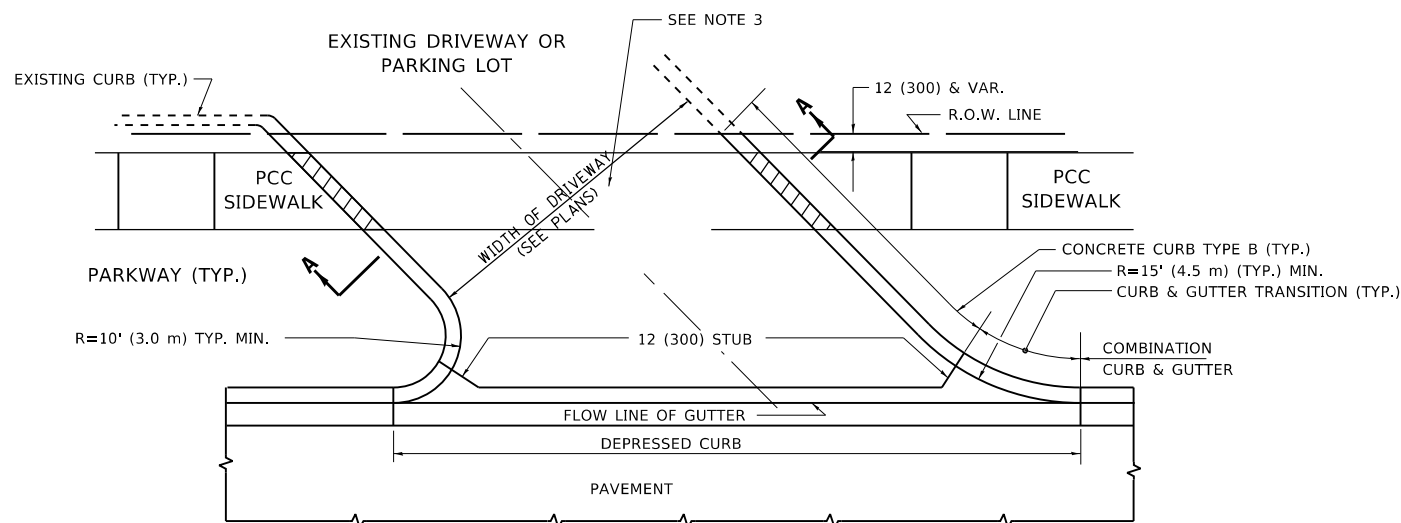
WITH CONCRETE CURB, TYPE B



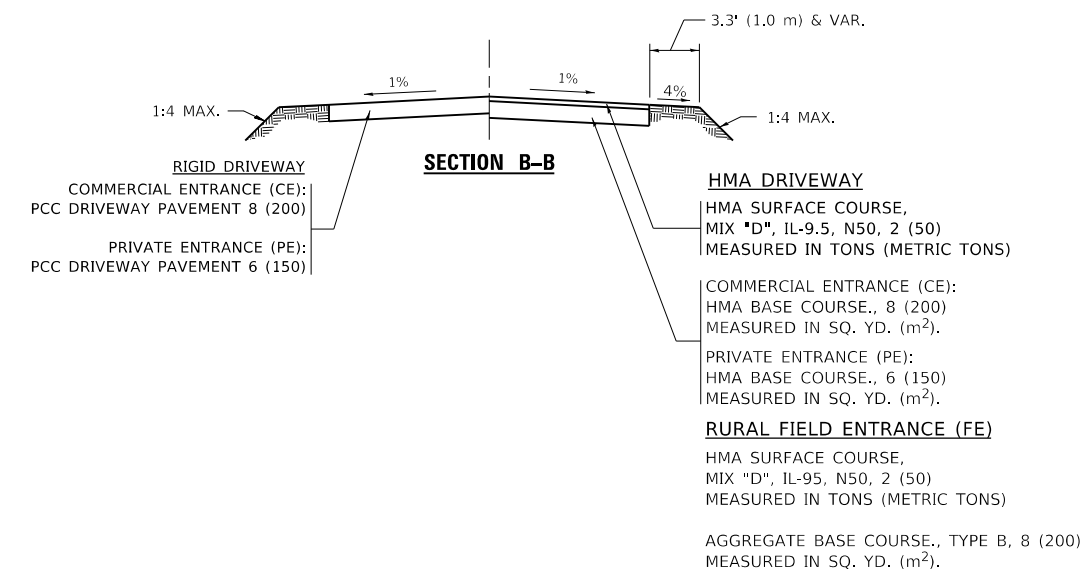
ADJACENT TO PCC /HMA SHOULDER



ADJACENT TO CURB AND GUTTER



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).

GENERAL NOTES

- 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.
- 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.

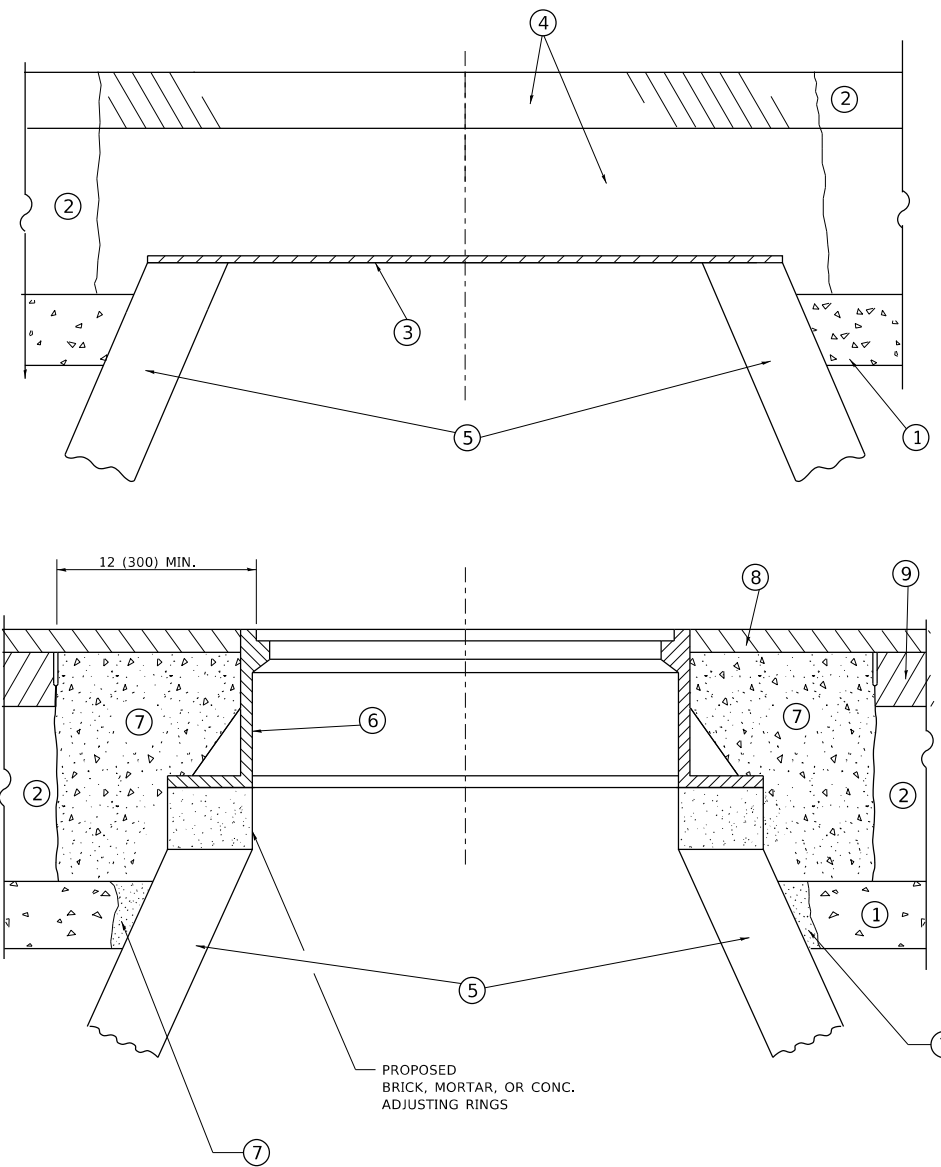
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	DRAWN -	REVISED - R. BORO 09-06-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - K. SMITH 08-28-19
PLOT DATE = 2/2/2022	DATE - 11-04-95	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	119
	BD400-01 (BD-01)			CONTRACT NO. 61H33
		ILLINOIS	FED. AID PROJECT	



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

NOTES

1. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
2. IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS*PP-1 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- | | |
|--|-------------------------------|
| ① SUB-BASE GRANULAR MATERIAL | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS*PP-1 CONCRETE |
| ③ 36 (900) DIAMETER METAL PLATE | ⑧ PROPOSED HMA SURFACE COURSE |
| ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX | ⑨ PROPOSED HMA BINDER COURSE |
| ⑤ EXISTING STRUCTURE | |

LOCATION OF STRUCTURES

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT

1. REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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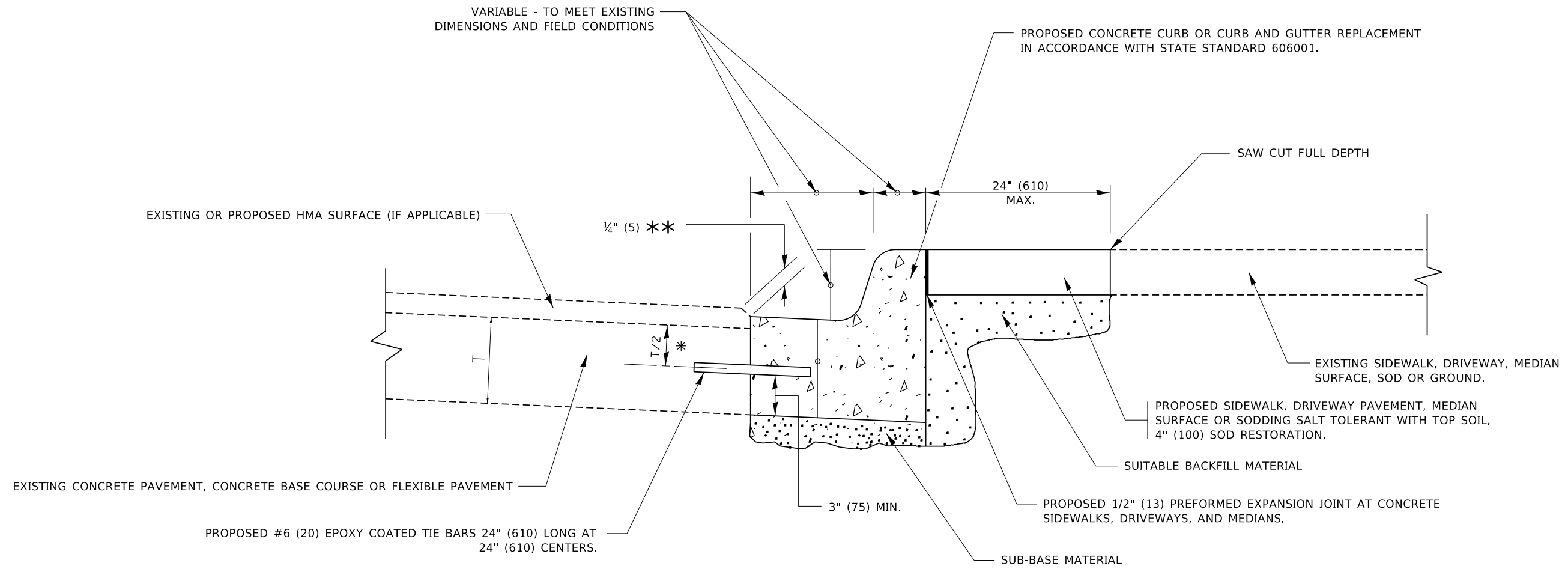
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PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	120
BD600-03 (BD-08)			CONTRACT NO.	61H33
ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

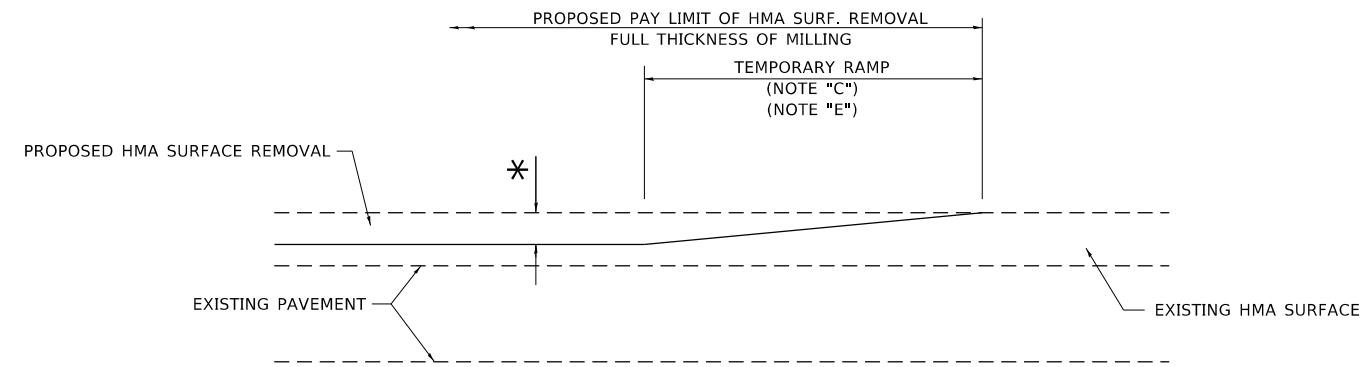
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PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

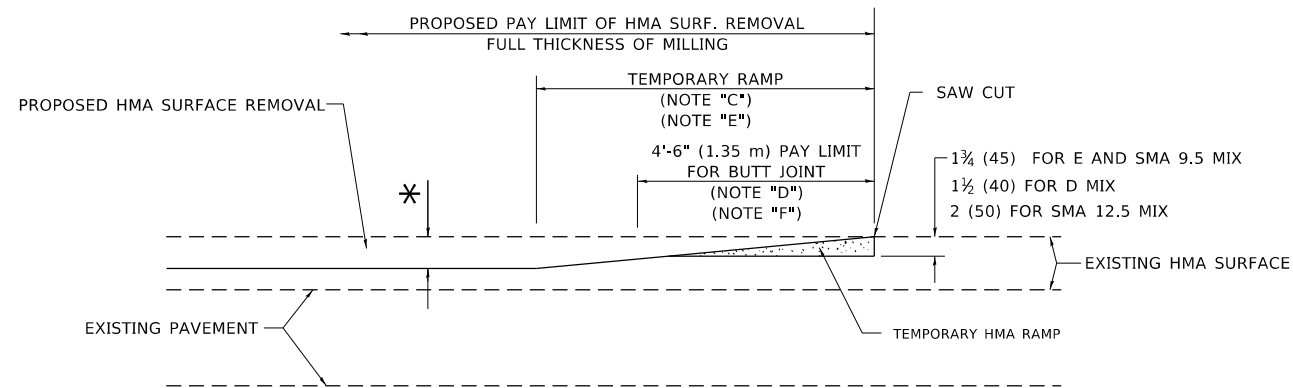
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BD600-06 (BD-24)			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

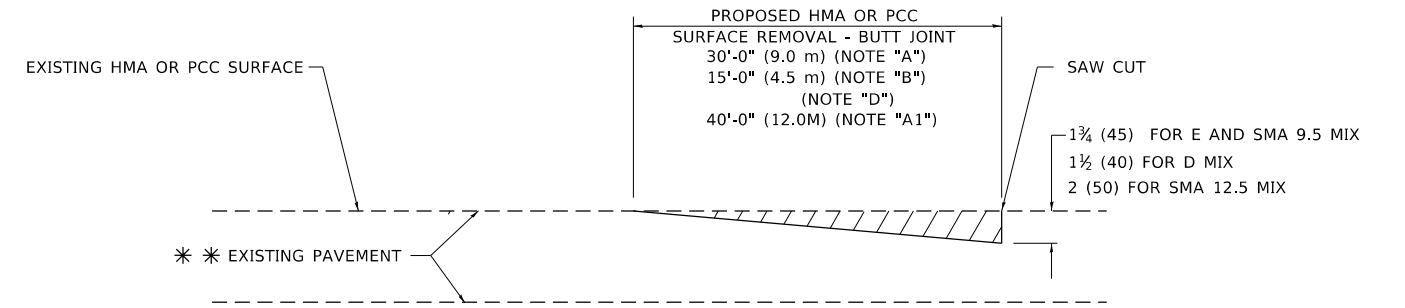


HMA CONSTRUCTED TEMPORARY RAMP

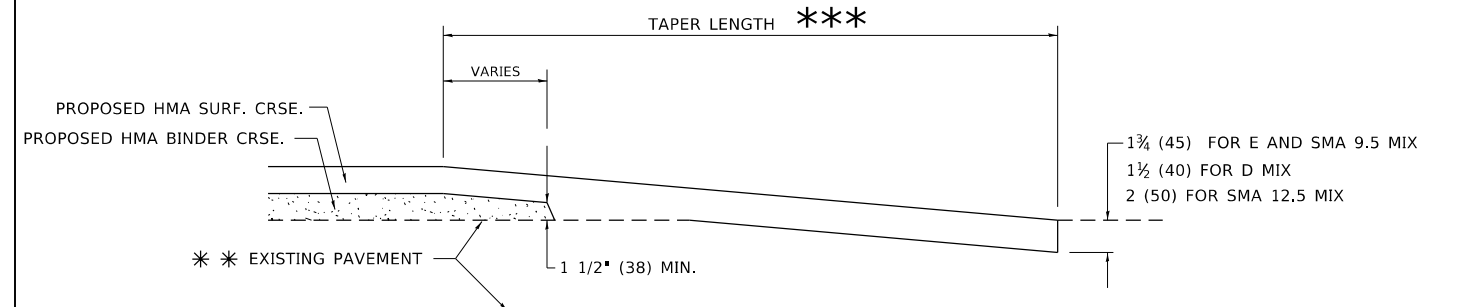
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

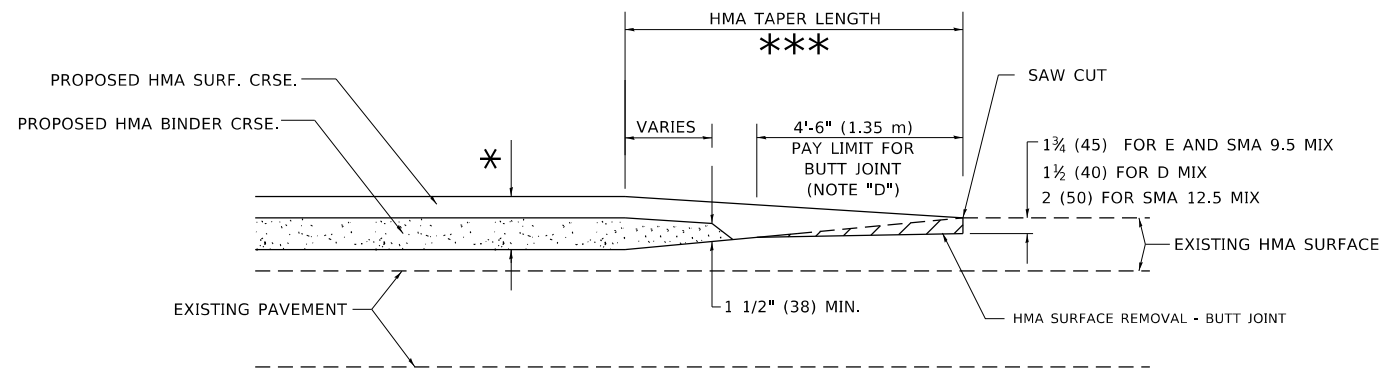
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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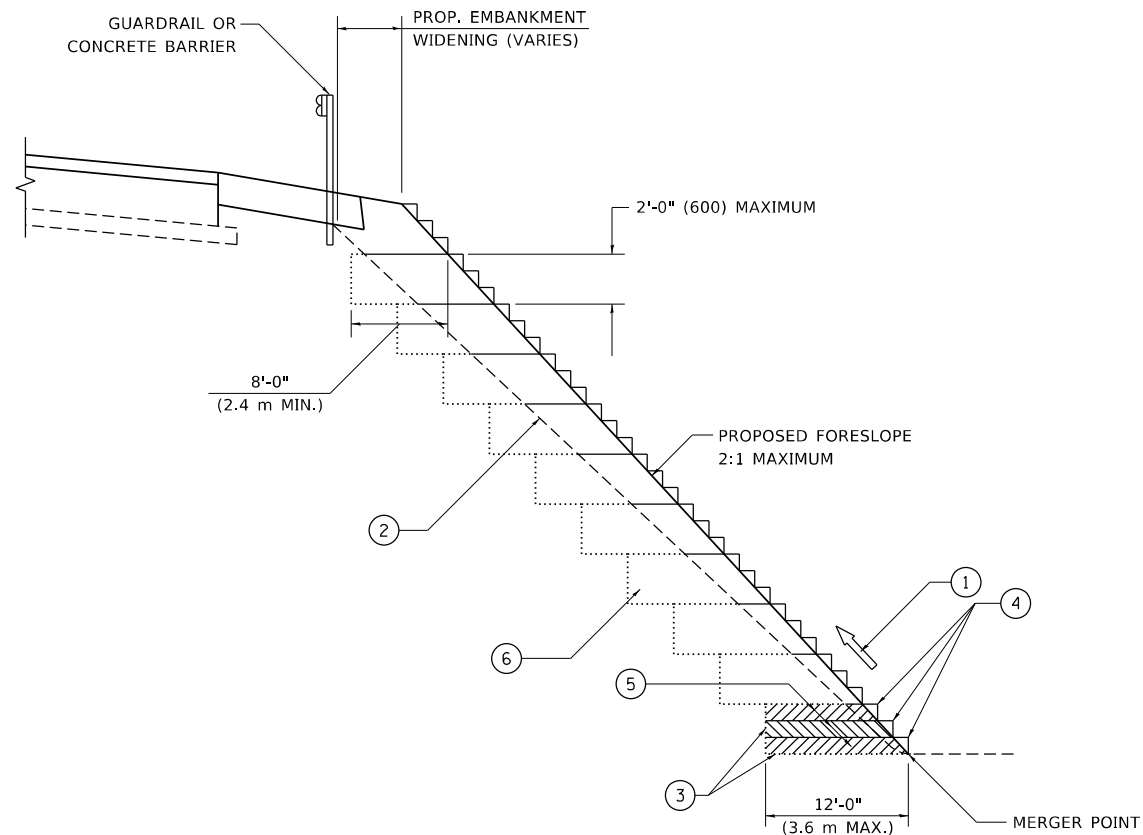
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PLOT DATE = 2/2/2022	DATE - 06-13-90	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	122
BD400-05 BD-32			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

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.
- ⑥ 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.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

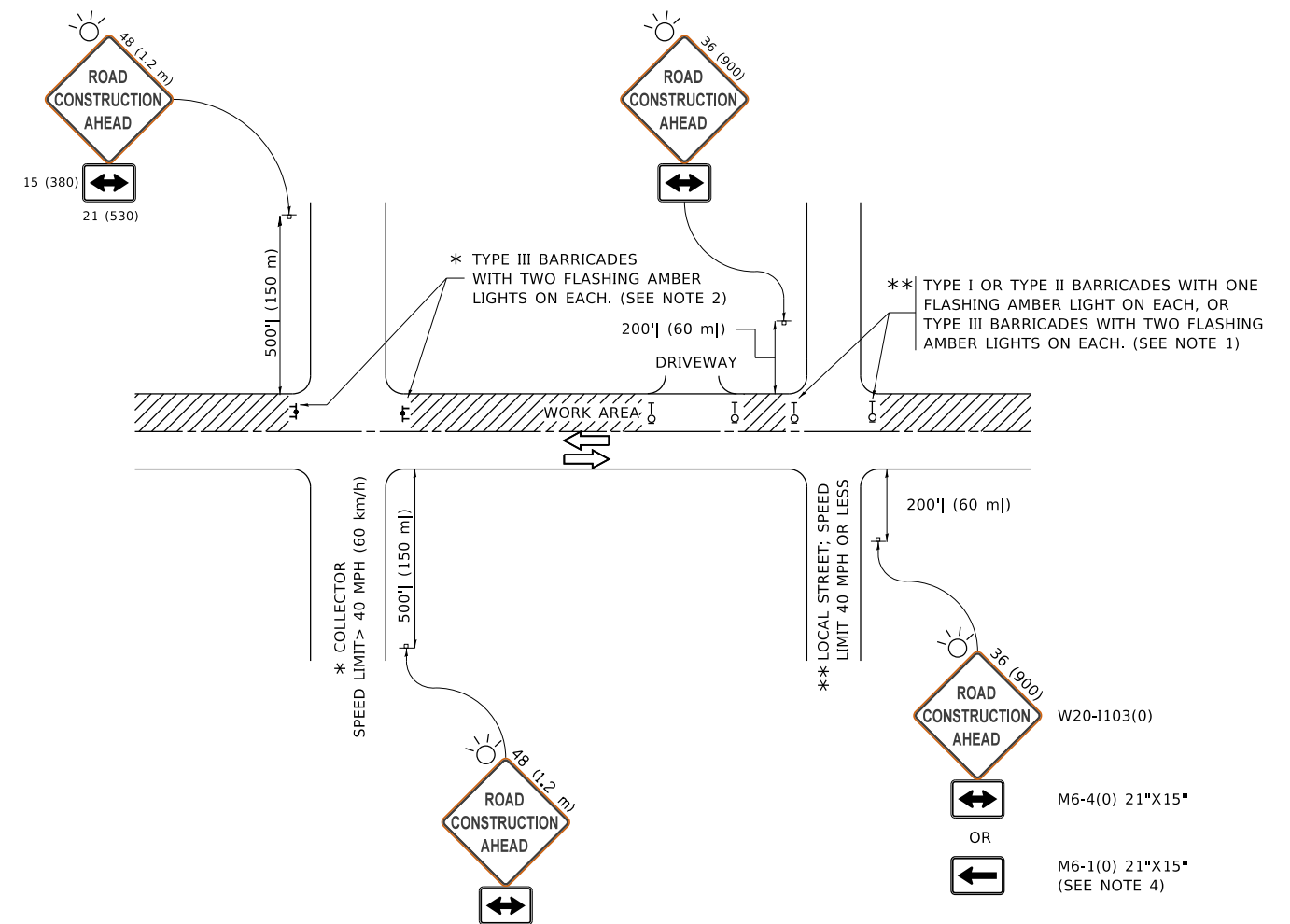
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PLOT SCALE	DATE	REVISED
PLOT DATE		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET 1	OF 1	SHEETS
STA.		TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	123
BD-51		CONTRACT NO. 61H33		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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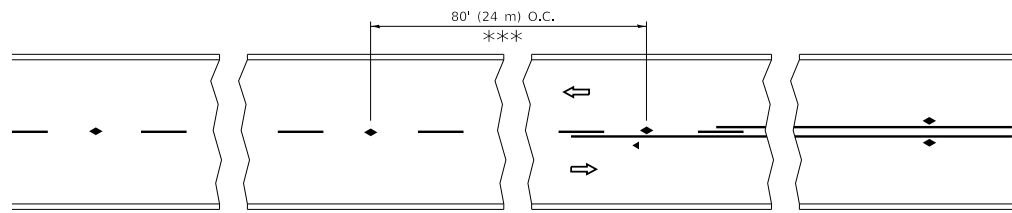
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

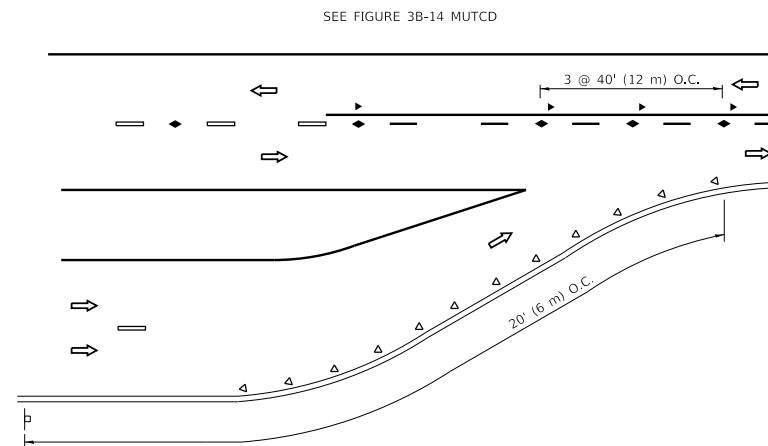
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ILLINOIS FED. AID PROJECT				

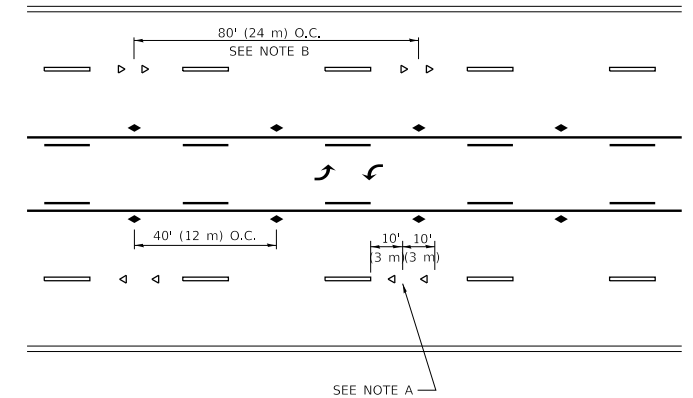


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

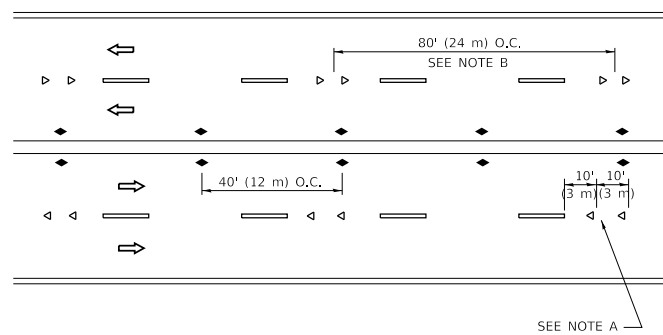
TWO-LANE/TWO-WAY



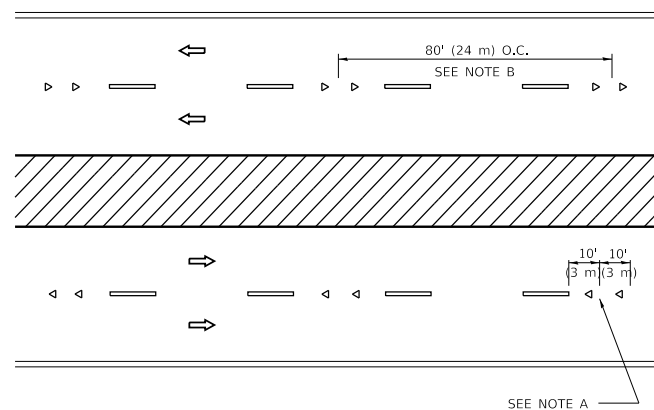
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

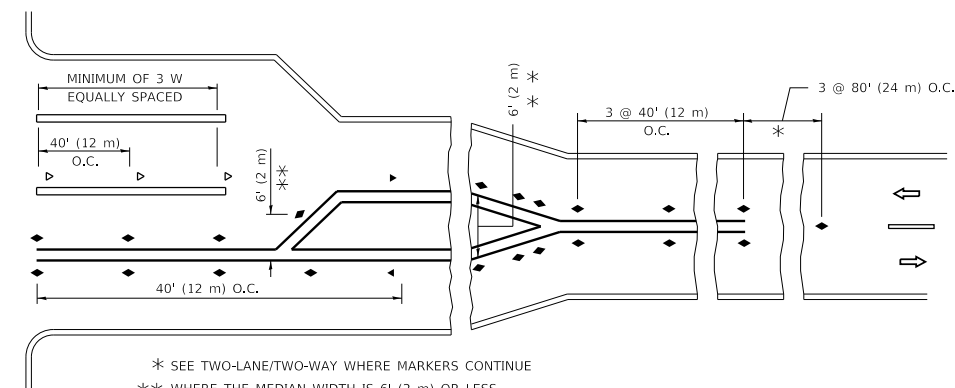
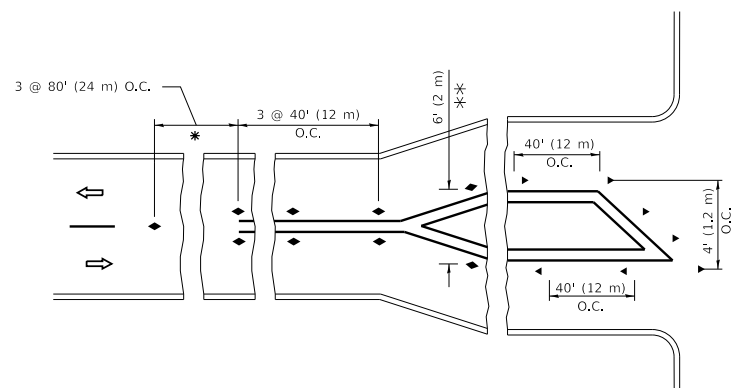
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



TURN LANES

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

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

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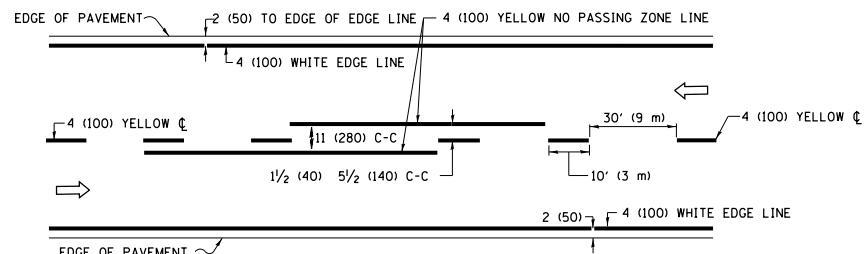
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

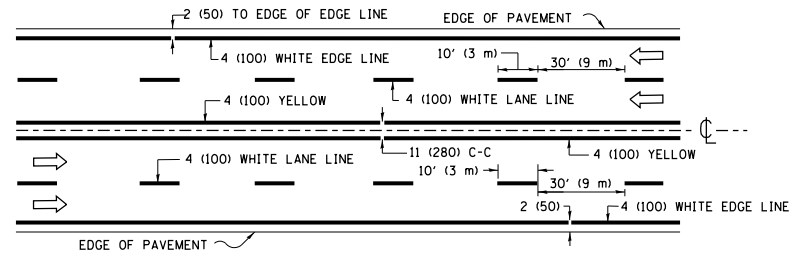
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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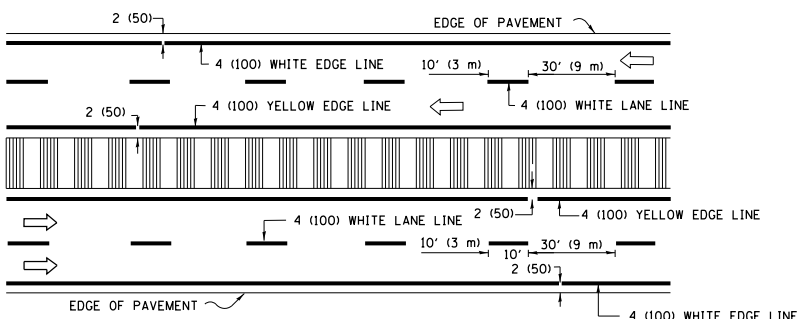
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	125
	TC-11		CONTRACT NO.	61H33
		ILLINOIS	FED. AID PROJECT	



2-LANE ROADWAY

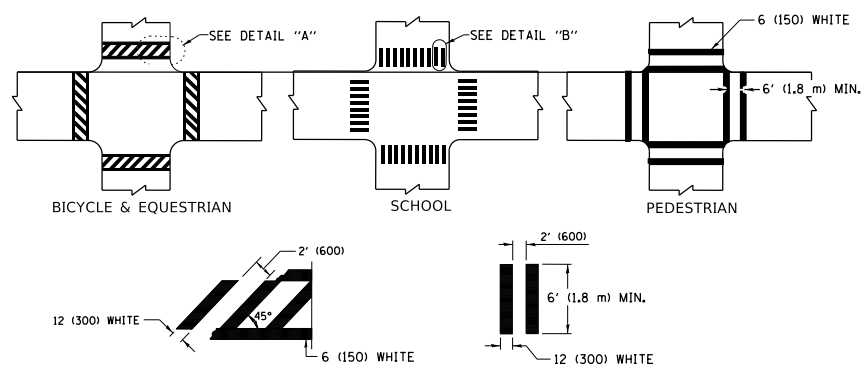


MULTI-LANE UNDIVIDED



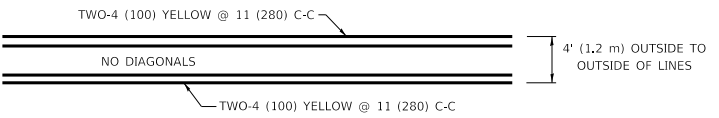
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

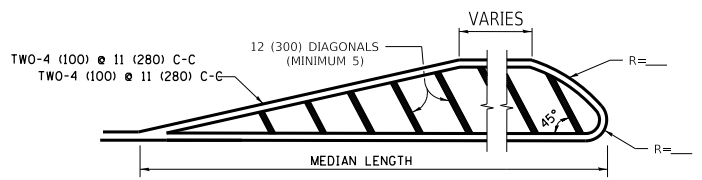


TYPICAL CROSSWALK MARKING

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



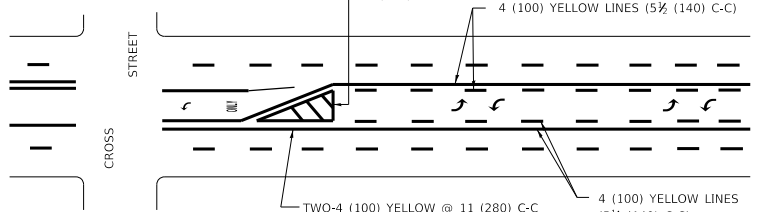
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

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))

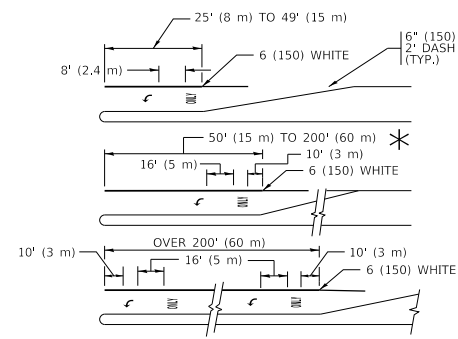


TYPICAL PAINTED MEDIAN MARKING

A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

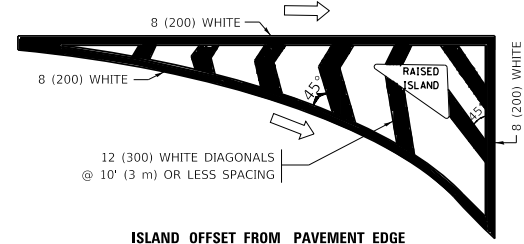


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

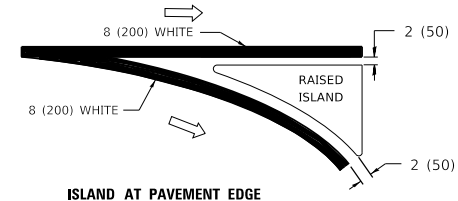
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

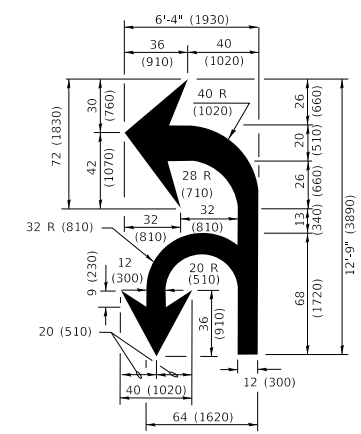
TYPICAL TURN LANE MARKING



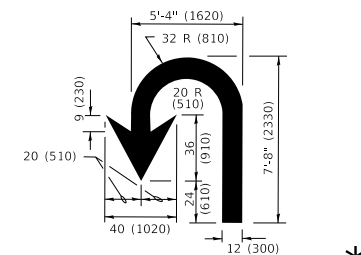
ISLAND OFFSET FROM PAVEMENT EDGE



TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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.

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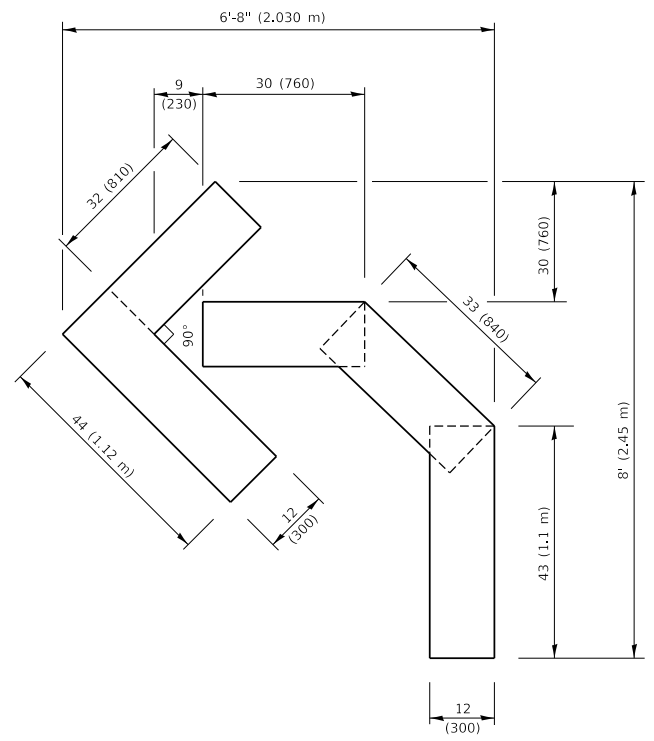
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

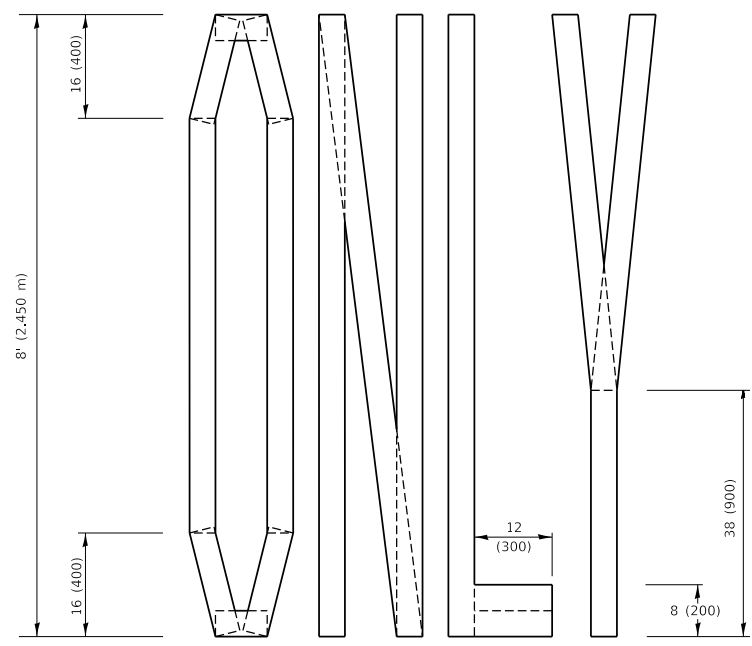
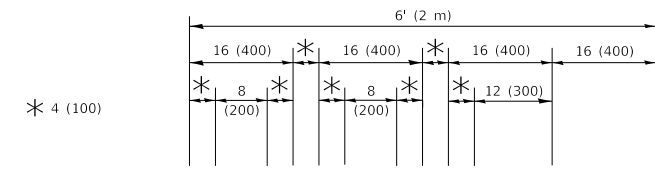
**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

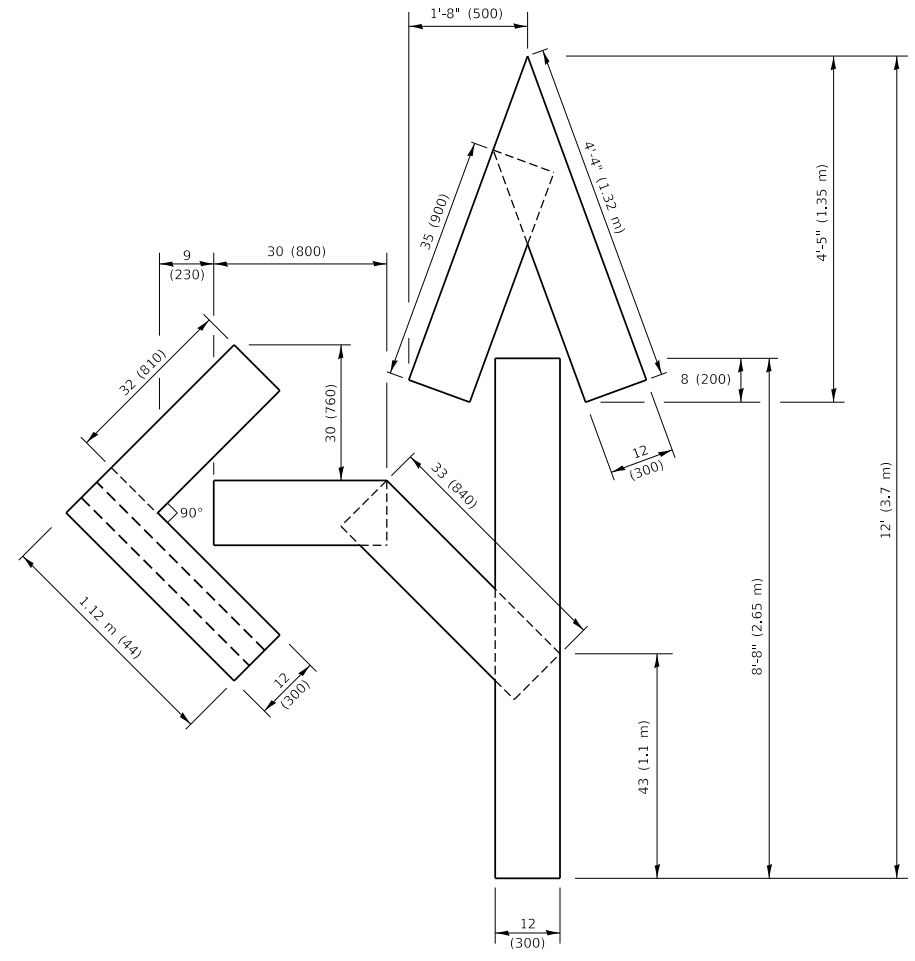
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	126
	TC-13	CONTRACT NO.	61H33	
		ILLINOIS	FED. AID PROJECT	



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

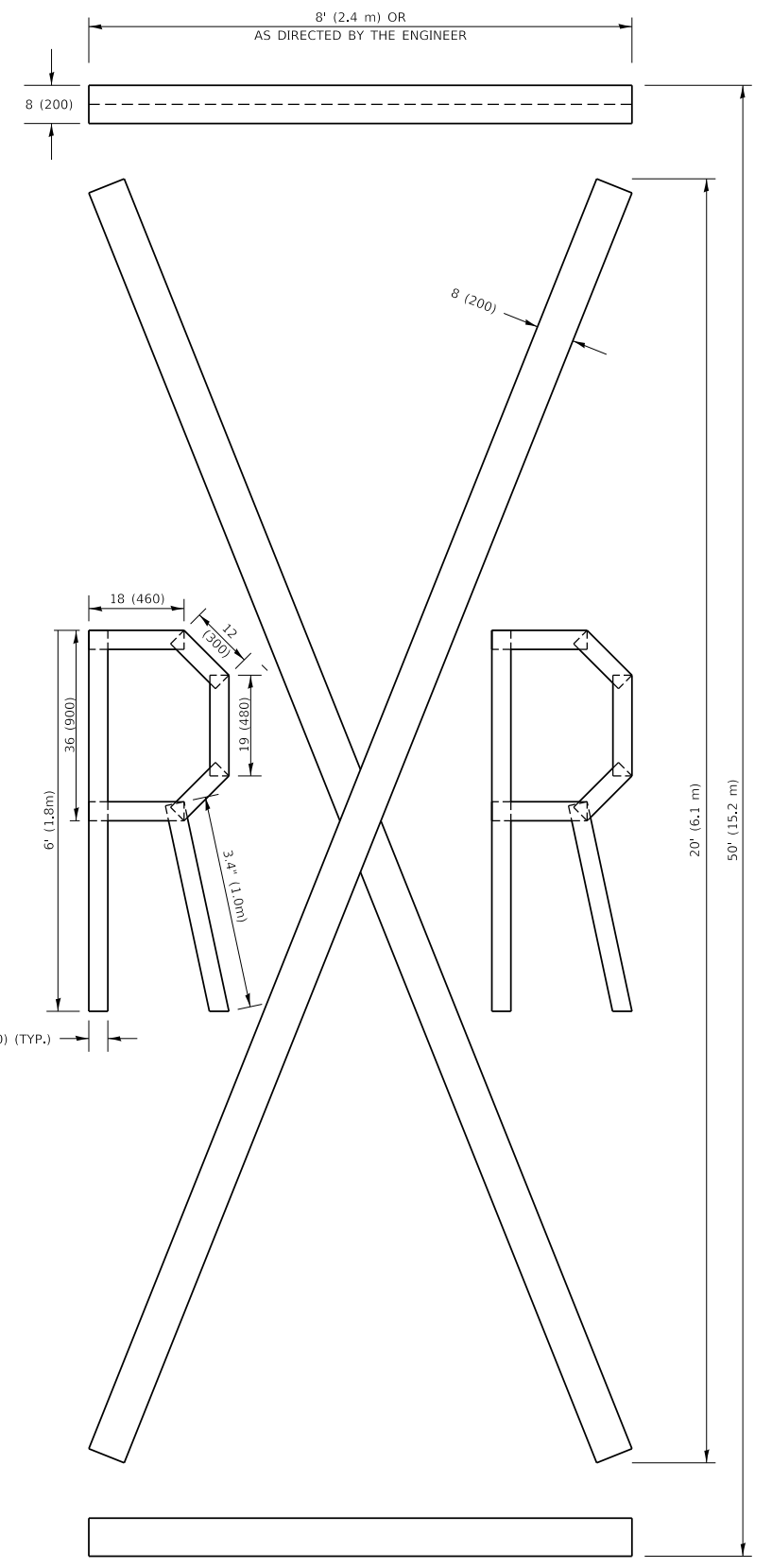


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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

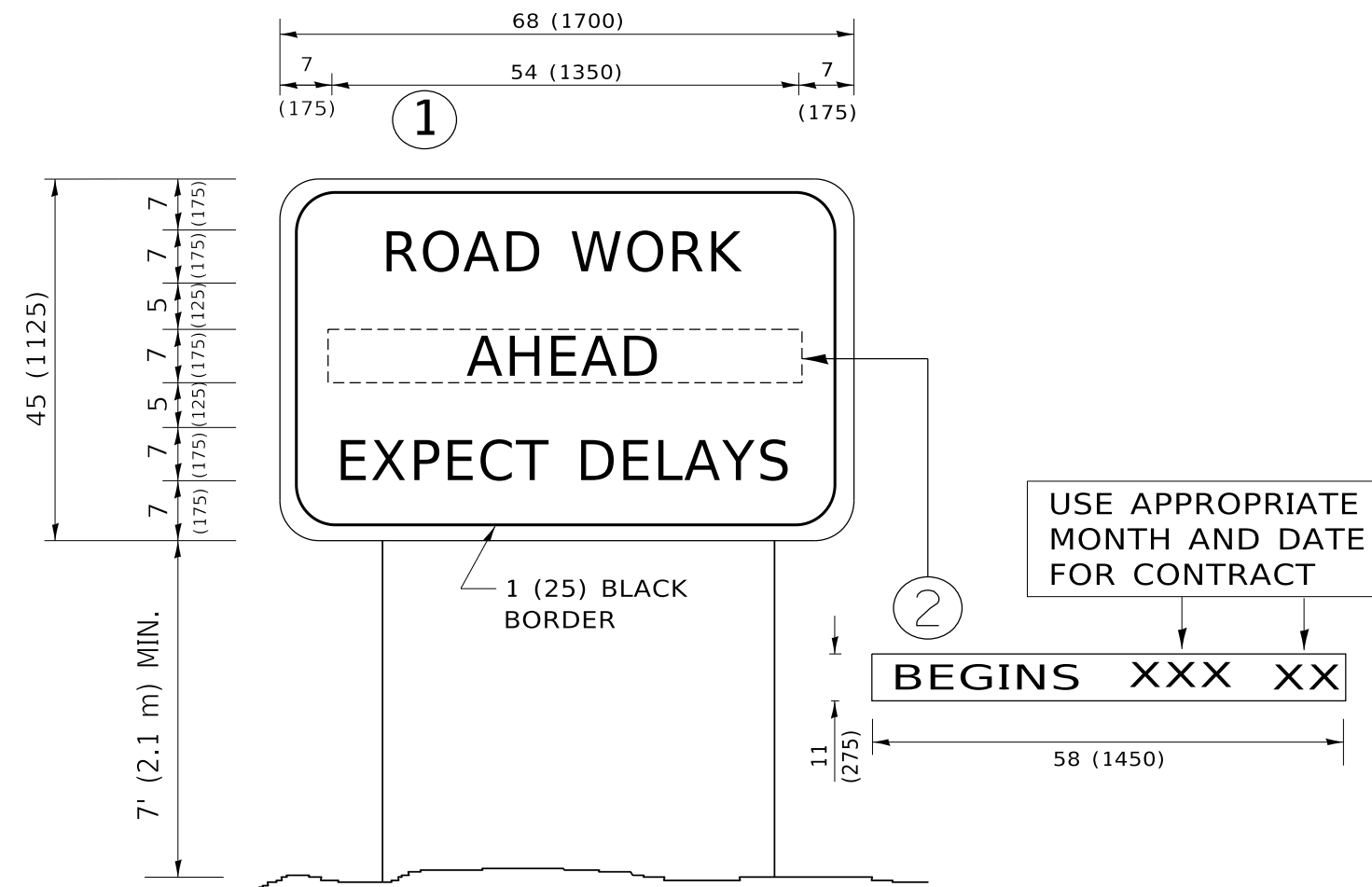
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PLOT DATE = 3/4/2019	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
 SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	127
	TC-16	CONTRACT NO.	61H33	
		ILLINOIS FED. AID PROJECT		



NOTES:

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

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

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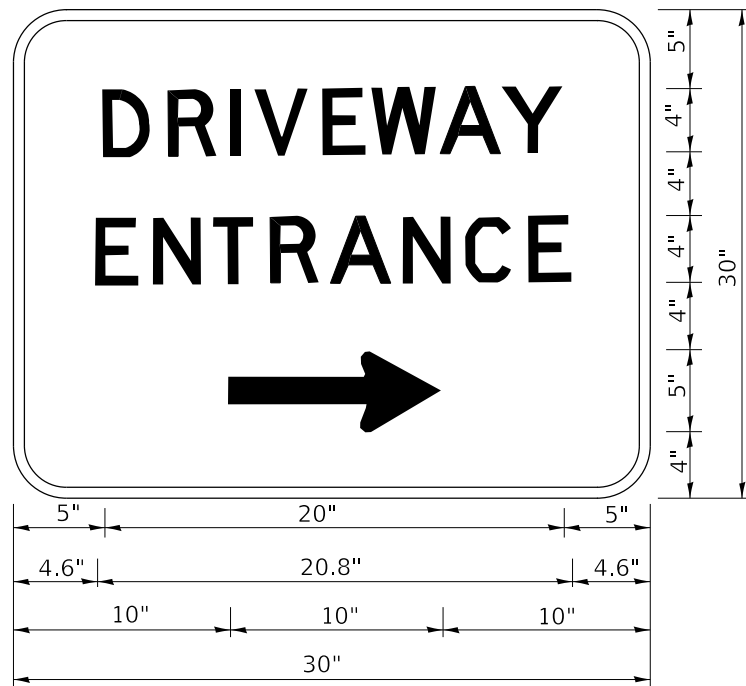
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	128
TC-22			CONTRACT NO. 61H33	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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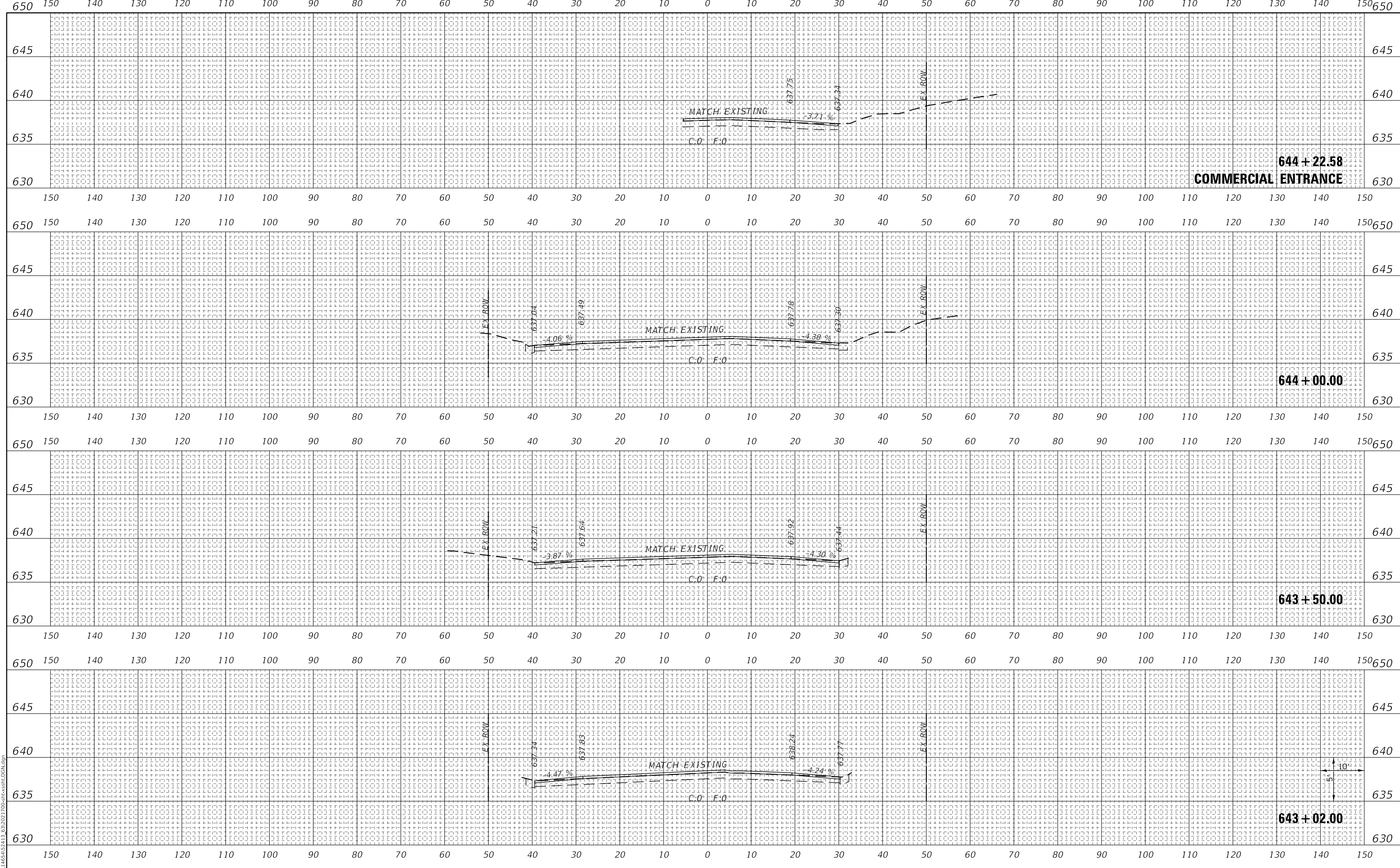
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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-00122-00-BR	LAKE	145	129
TC-26		CONTRACT NO. 61H33		
		ILLINOIS	FED. AID PROJECT	



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

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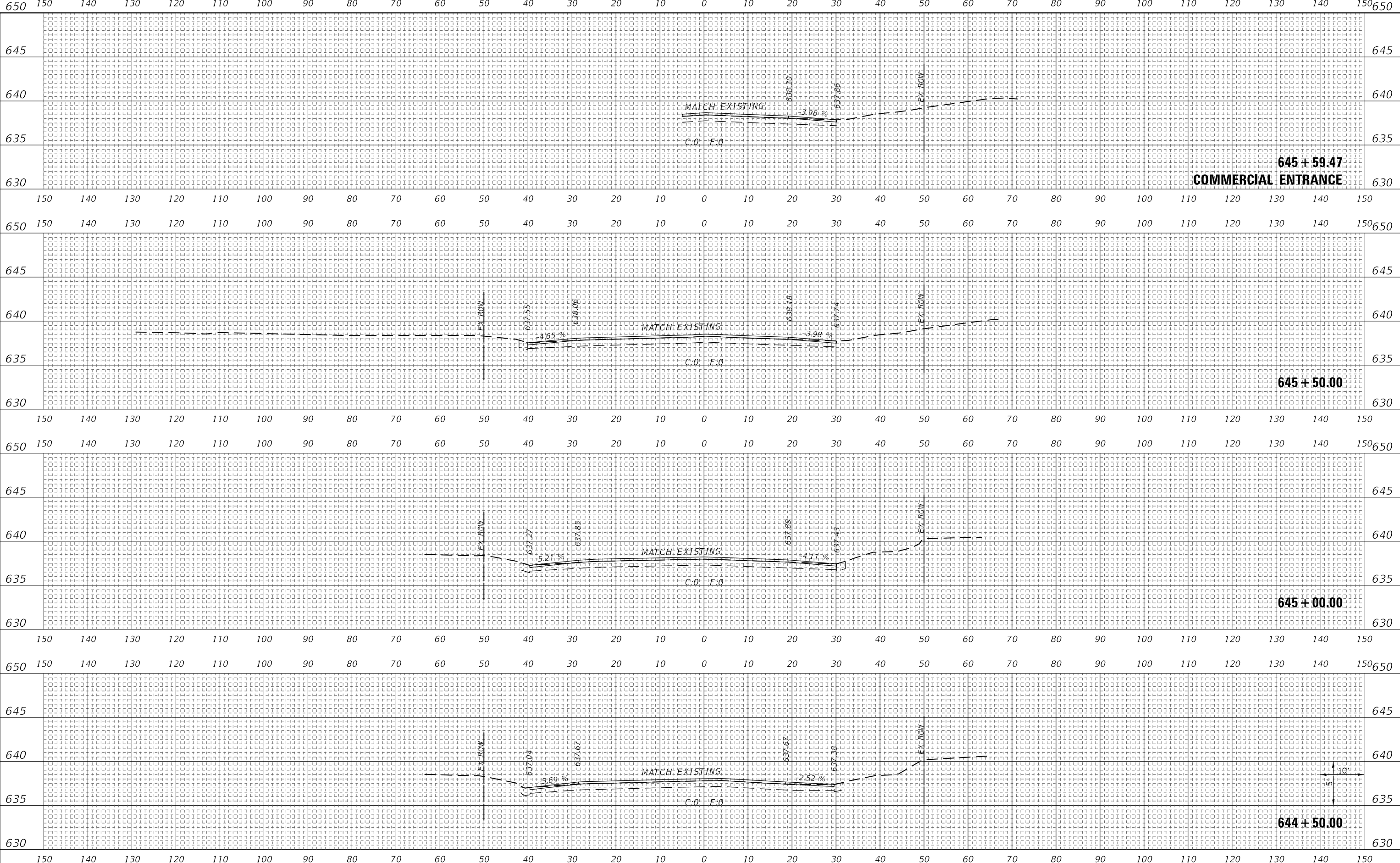


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DESIGNED	- JEP
DRAWN	- MAC
CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER			
CROSS SECTIONS			
SCALE:	SHEET 1	OF 16 SHEETS	STA. 643+02.00 TO STA. 644+22.58

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	130
				CONTRACT NO. 61H33
				ILLINOIS FED. AID PROJECT



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

DATE	_____
BY	_____
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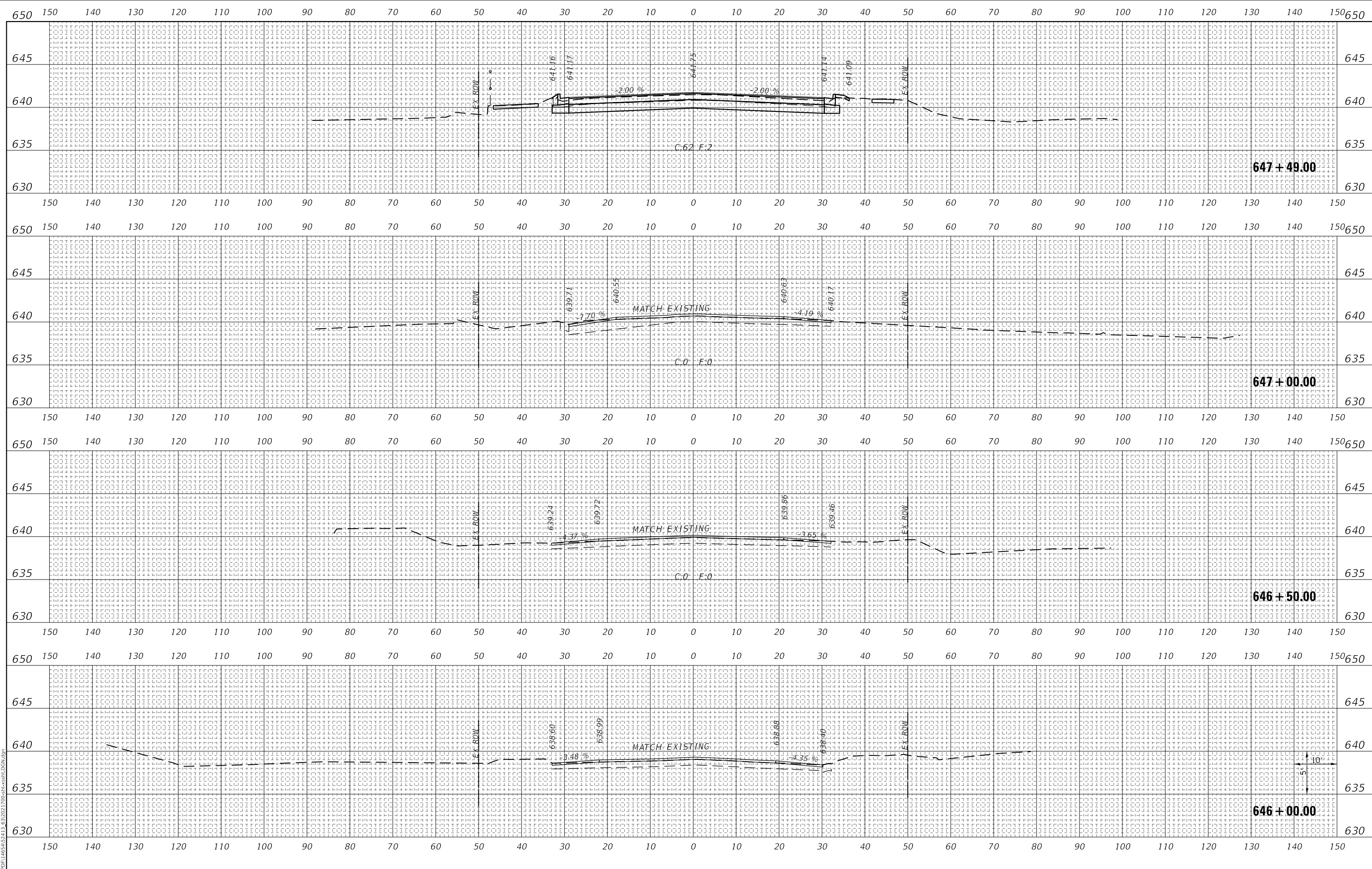


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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER			
CROSS SECTIONS			
SCALE:	SHEET 2	OF 16 SHEETS	STA. 644+50.00 TO STA. 645+59.47

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	131
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



DATE	BY	FINAL SURVEY	SURVEYED
		NOTE BOOK	PLOTTED
		AREAS CHECKED	AREAS CHECKED

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

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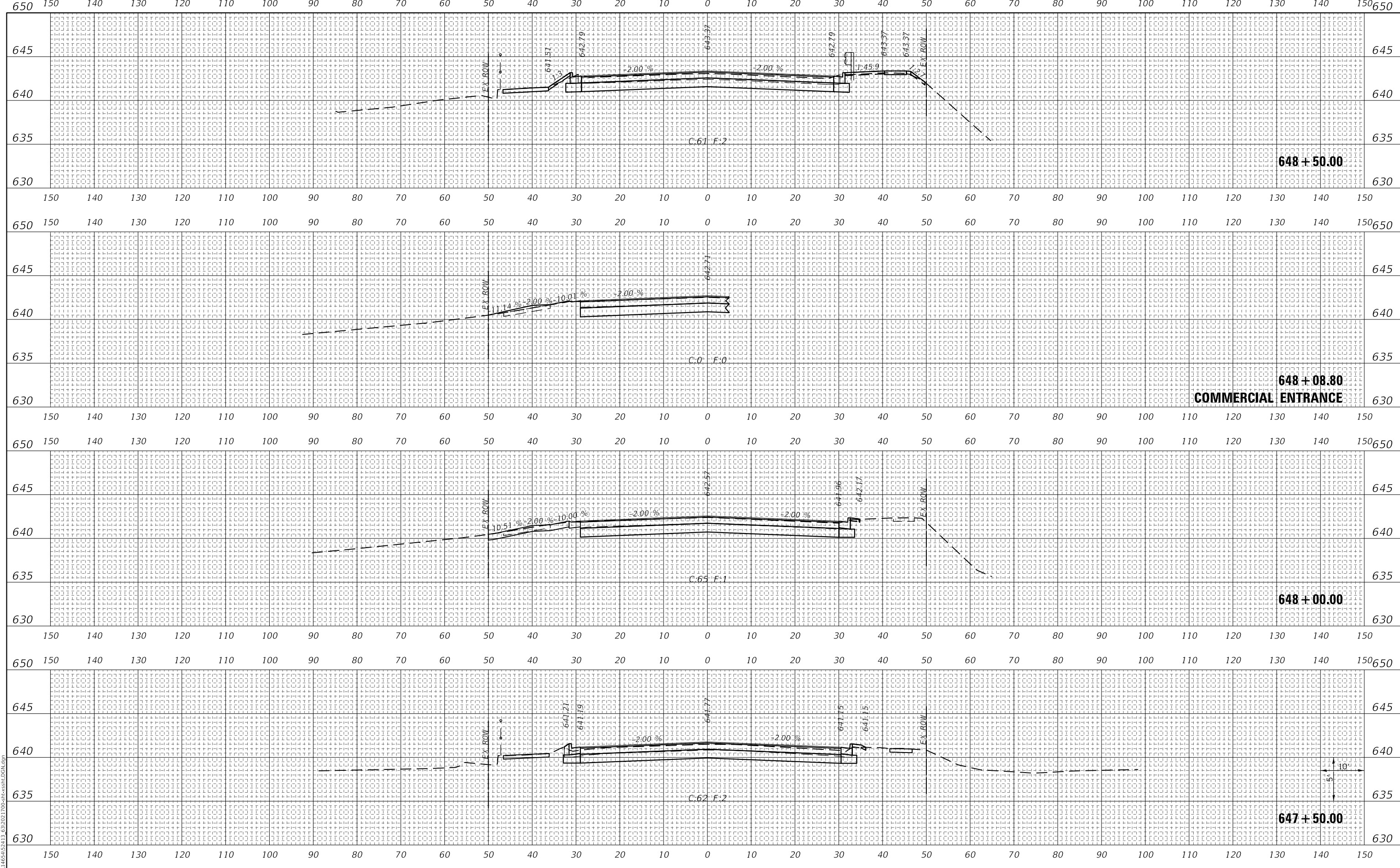
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PLOT SCALE = 20,000' / in.	DRAWN - MAC	REVISED -
PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 3 OF 16 SHEETS STA. 646+00.00 TO STA. 647+49.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	132
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	



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

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

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USER NAME	= PWICSS
DESIGNED	- JEP
DRAWN	- MAC
CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

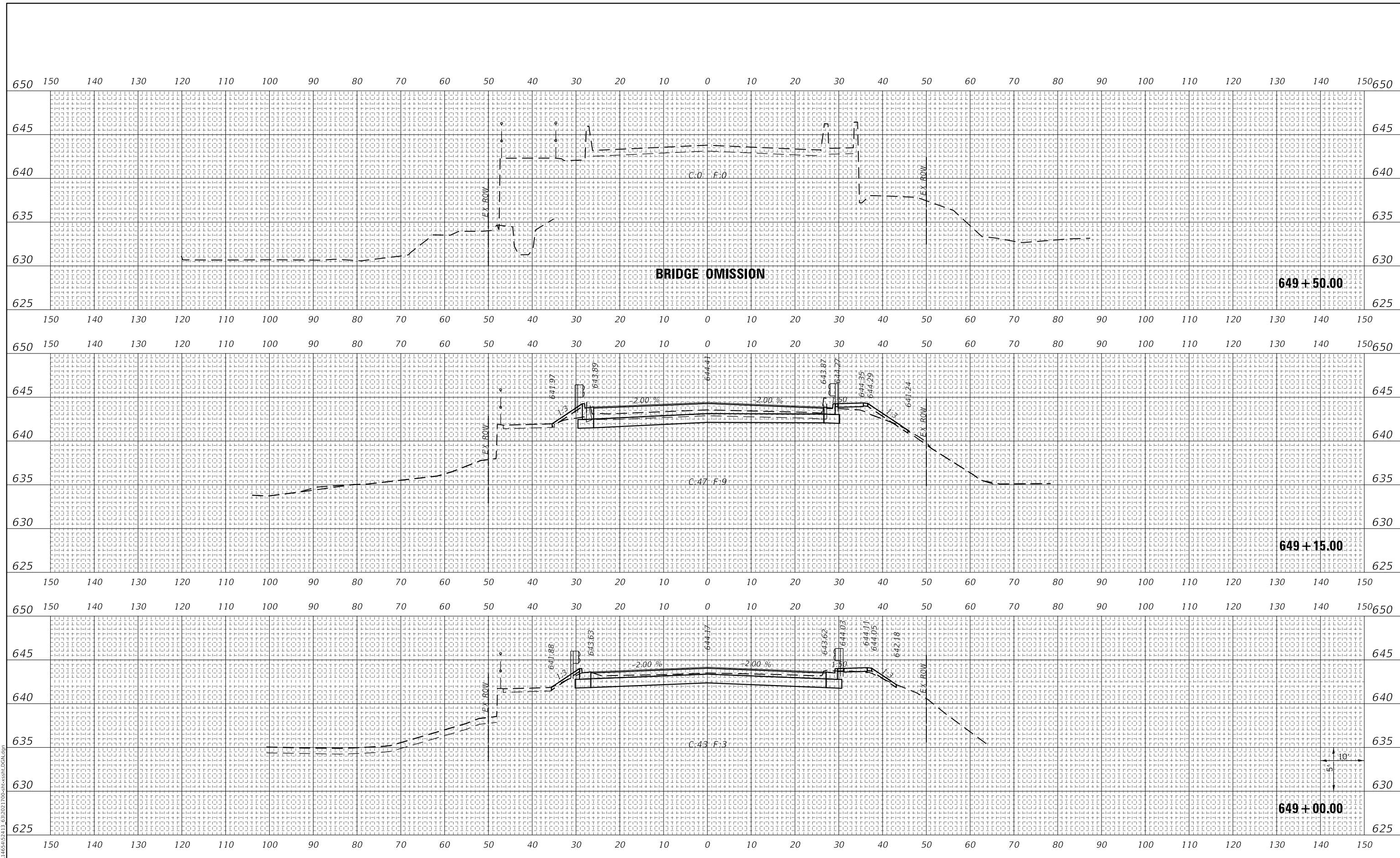
**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 4 OF 16 SHEETS STA. 647+50.00 TO STA. 648+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	133
CONTRACT NO. 61H33				
ILLINOIS		FED. AID PROJECT		

DATE	
BY	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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DATE	
BY	
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USER NAME	= PWICSS
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CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
CROSS SECTIONS

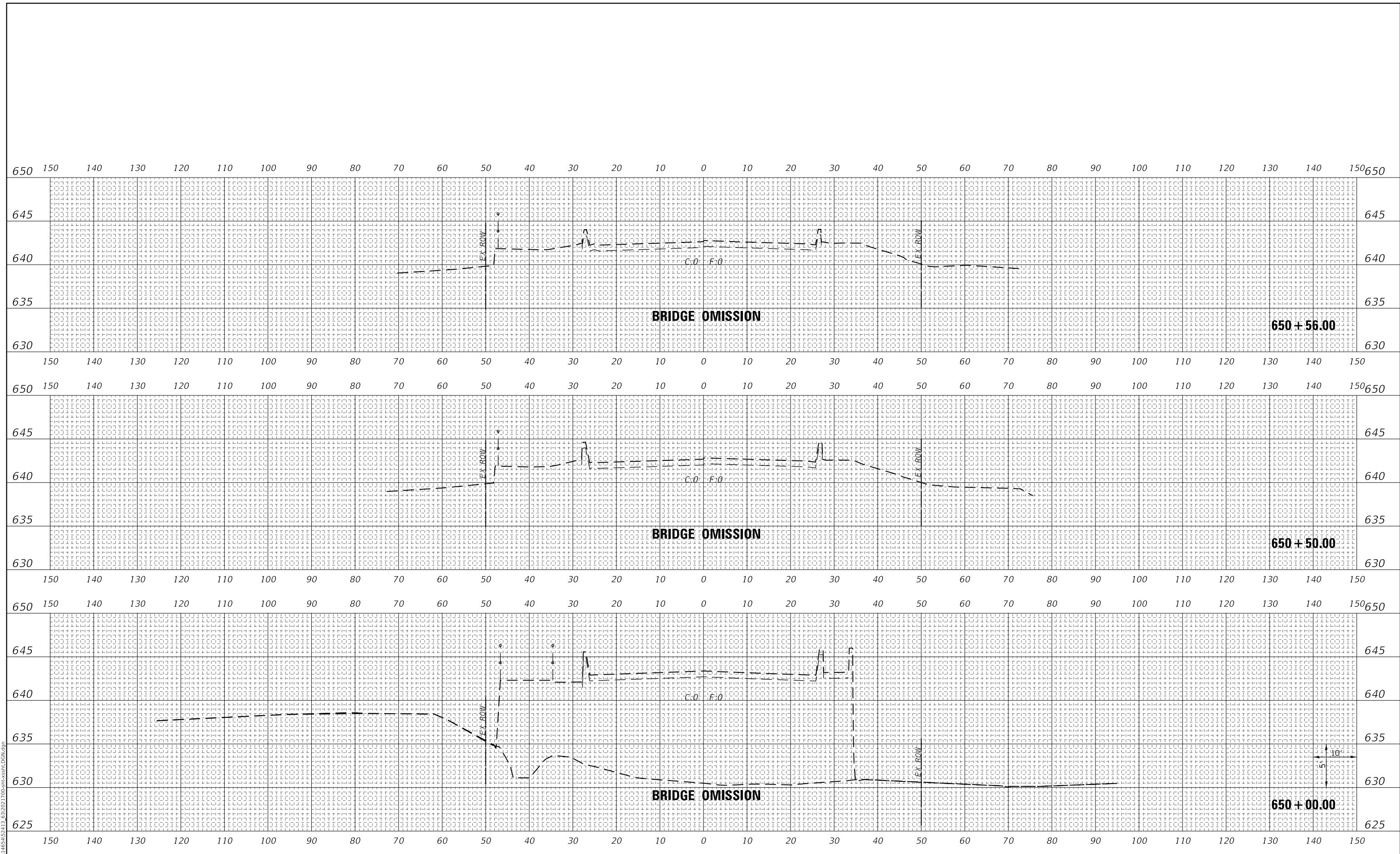
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	134
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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NOTE BOOK	
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PLOTTED	
TEMPLATE	
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DATE	
BY	
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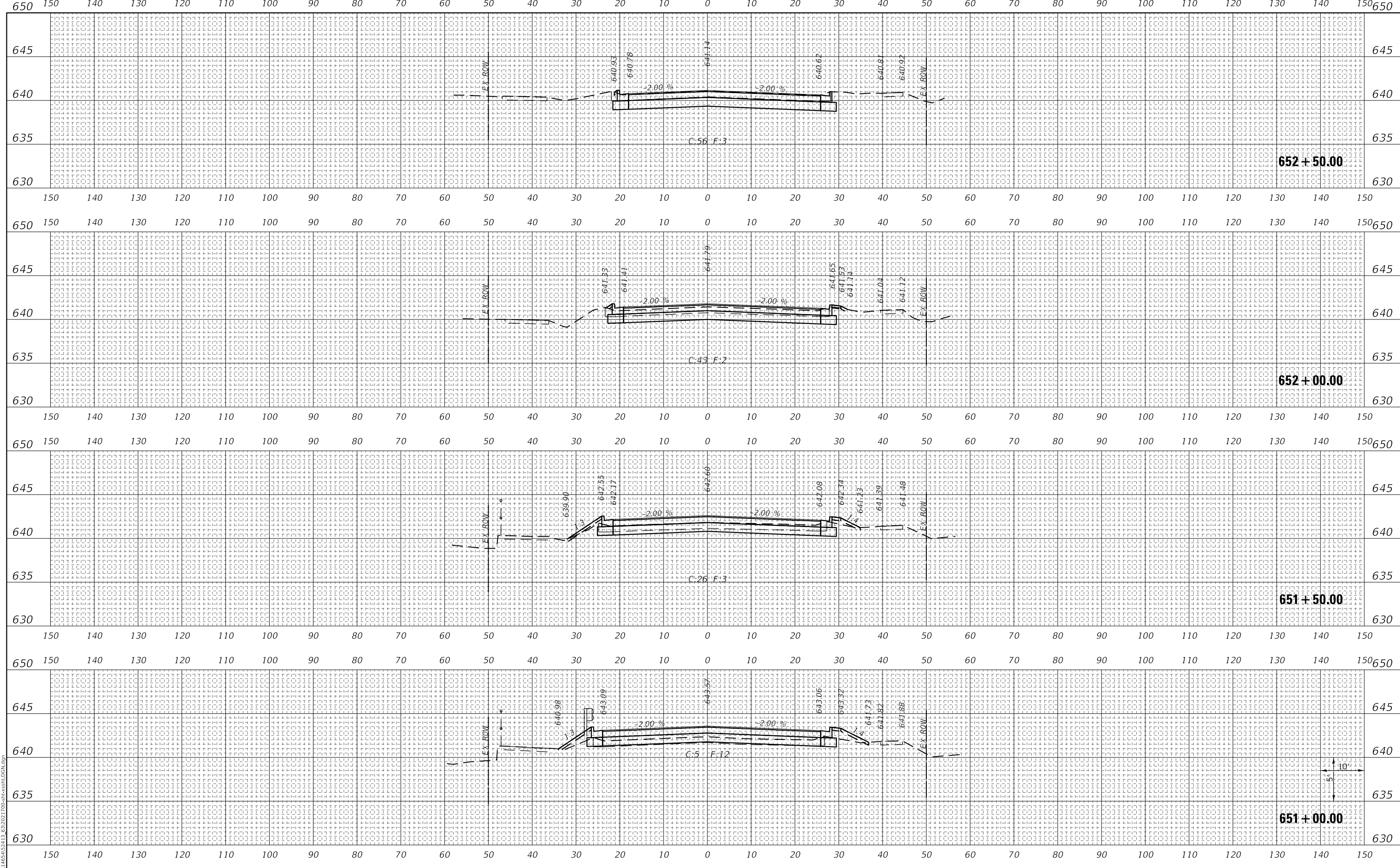


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DESIGNED	- JEP
DRAWN	- MAC
CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
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REVISIONS	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER			
CROSS SECTIONS			
SCALE:	SHEET 6	OF 16 SHEETS	STA. 650+00.00 TO STA. 650+56.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	135
				CONTRACT NO. 61H33
		ILLINOIS	FED. AID PROJECT	



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

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

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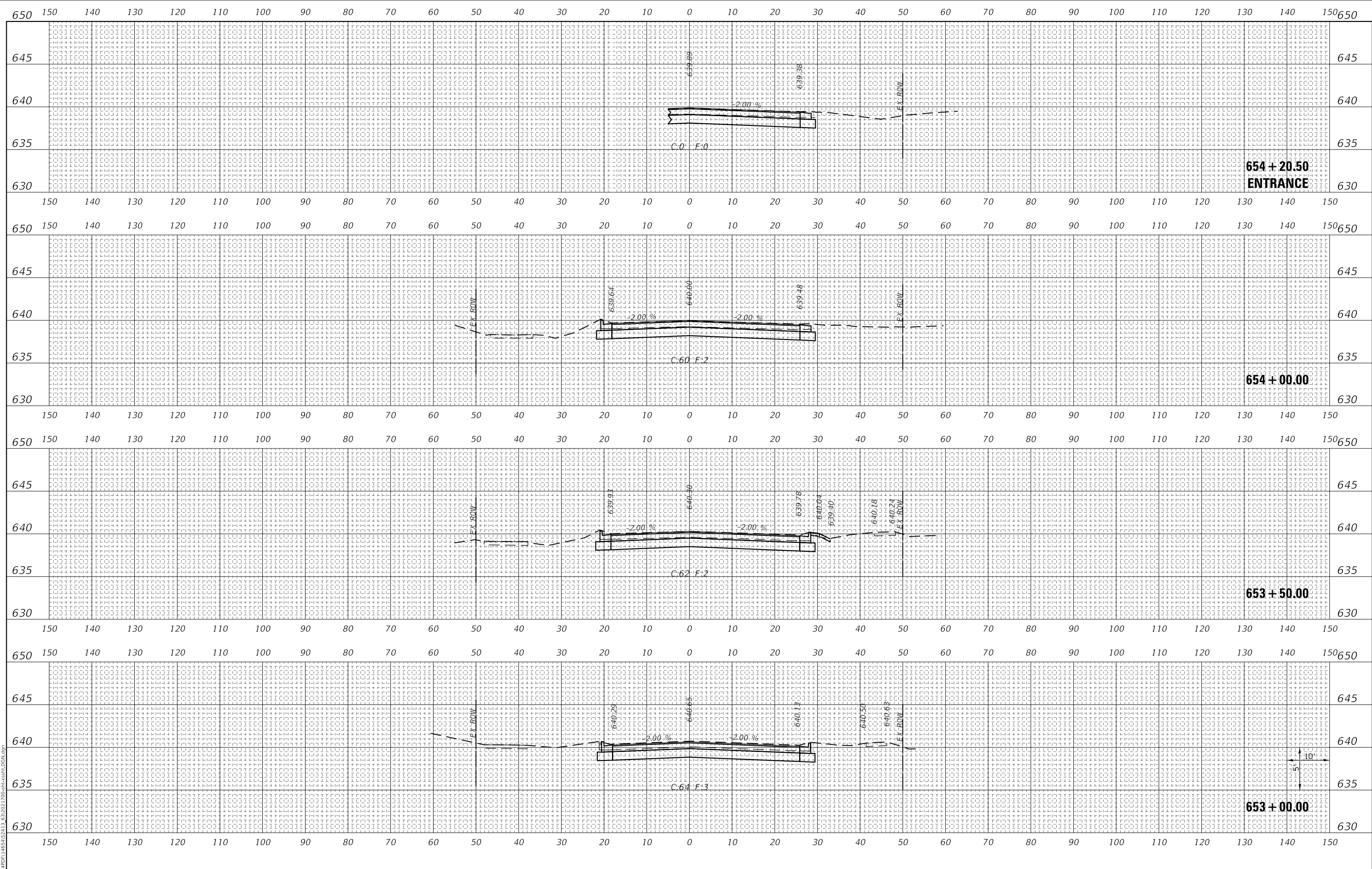
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CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
REVISIONS	
REVISIONS	
REVISIONS	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
CROSS SECTIONS

SCALE: SHEET 7 OF 16 SHEETS STA. 651+00.00 TO STA. 652+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	136
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



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

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

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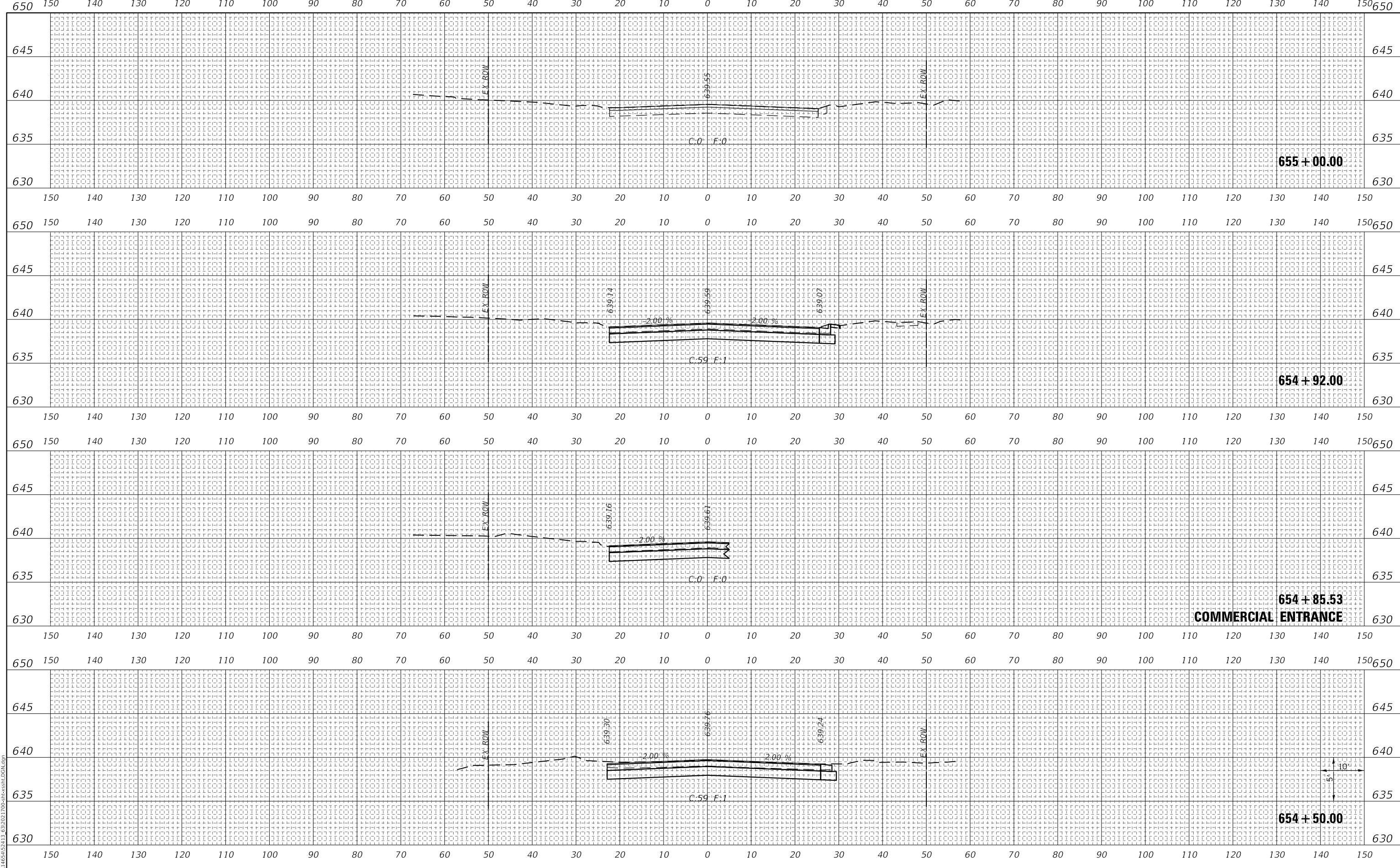


USER NAME	= PWICSS
DESIGNED	- JEP
DRAWN	- MAC
CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
REVISOR	
REVISION	
DATE	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER			
CROSS SECTIONS			
SCALE:	SHEET 8	OF 16 SHEETS	STA. 653+00.00 TO STA. 654+20.50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	137
				CONTRACT NO. 61H33
				ILLINOIS FED. AID PROJECT



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

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

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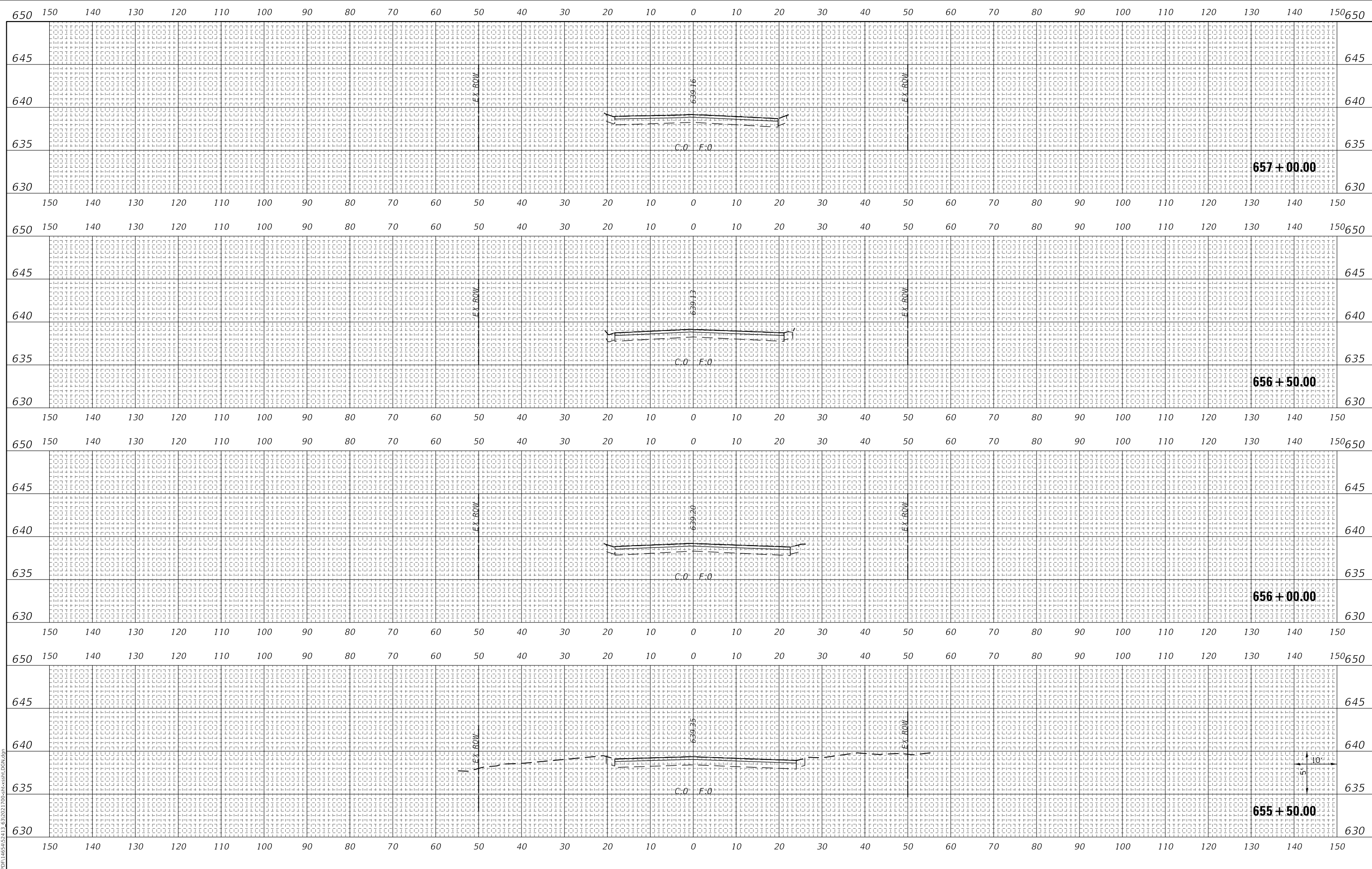
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DESIGNED	- JEP
DRAWN	- MAC
CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
REVISOR	
REVISION	
DATE	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 9 OF 16 SHEETS STA. 654+50.00 TO STA. 655+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	138
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



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

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

MODEL: PARK_AVE_WEST_95%_Sheets
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USER NAME	= PWICSS
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CHECKED	- MFB
DATE	- 2021/07/30
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PLOT DATE	= 9/20/2022

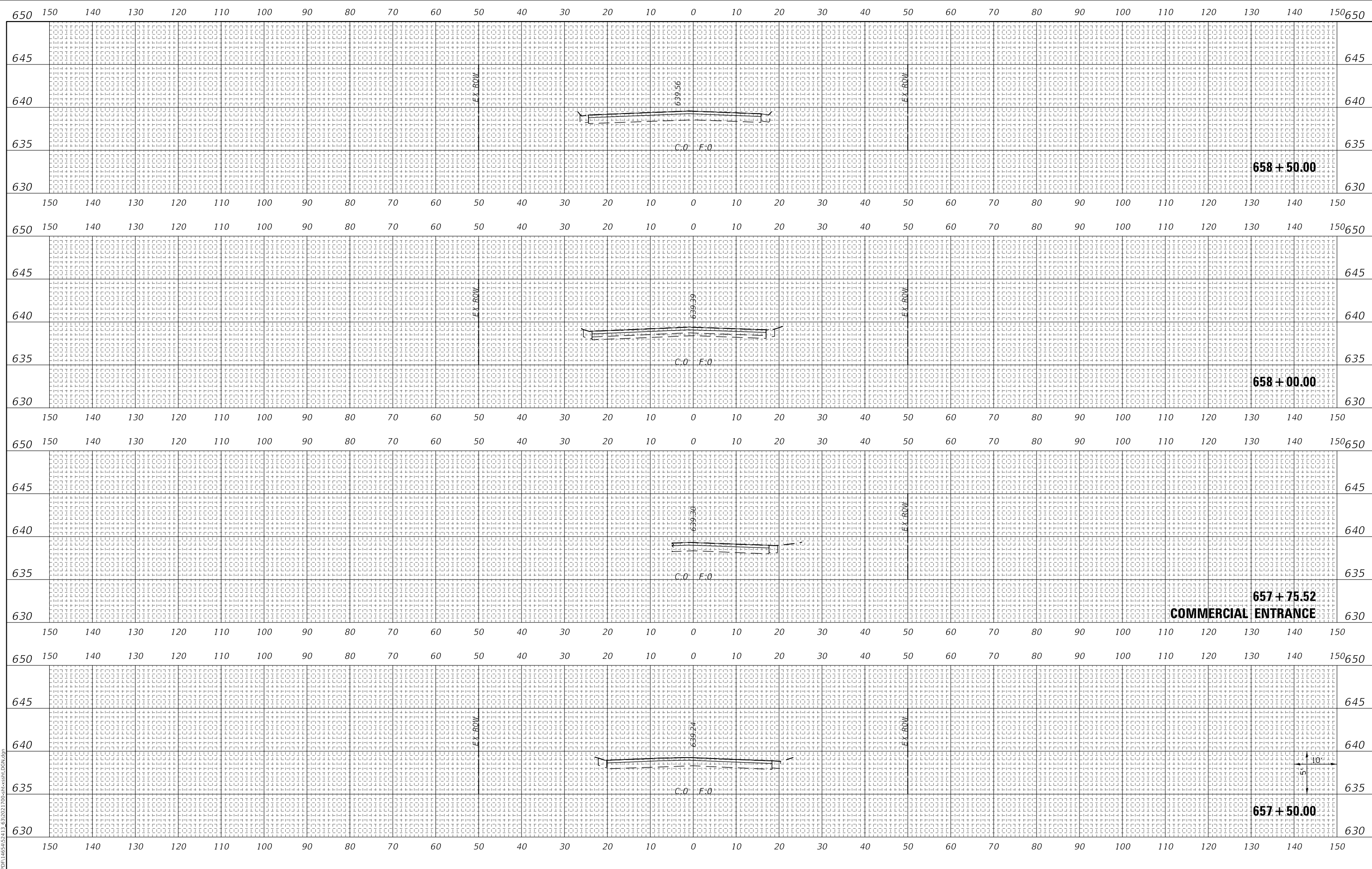
REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 10 OF 16 SHEETS STA. 655+50.00 TO STA. 657+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	139
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				



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

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

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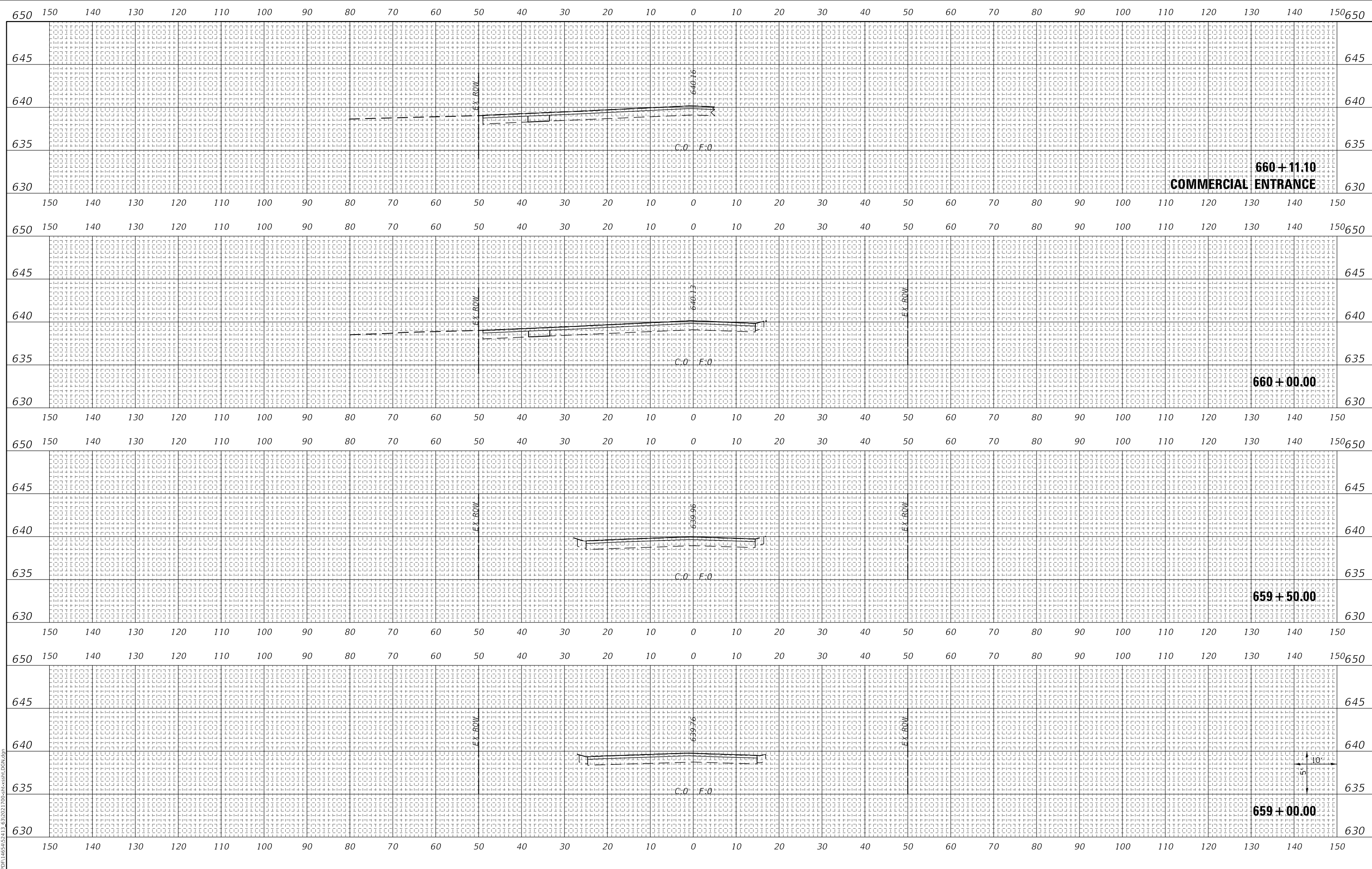
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DESIGNED	- JEP
DRAWN	- MAC
CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
REVISED	-
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REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 11 OF 16 SHEETS STA. 657+50.00 TO STA. 658+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	140
CONTRACT NO. 61H33				
ILLINOIS		FED. AID PROJECT		



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

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

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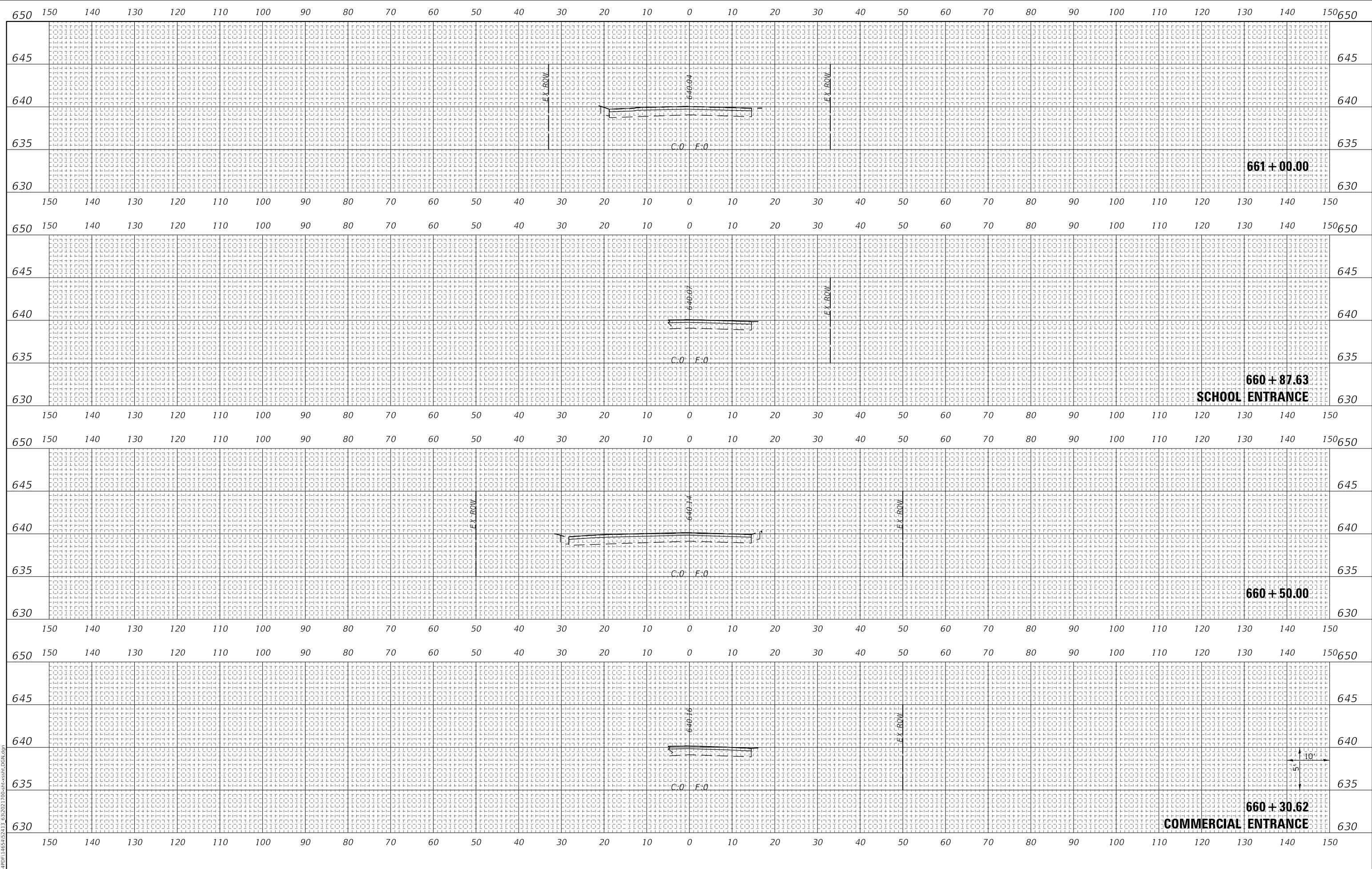
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PLOT DATE = 9/20/2022	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 12 OF 16 SHEETS STA. 659+00.00 TO STA. 660+11.10

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	141
CONTRACT NO. 61H33				
ILLINOIS		FED. AID PROJECT		



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

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

MODEL: PARK_AVE_WEST_95%_Sheets
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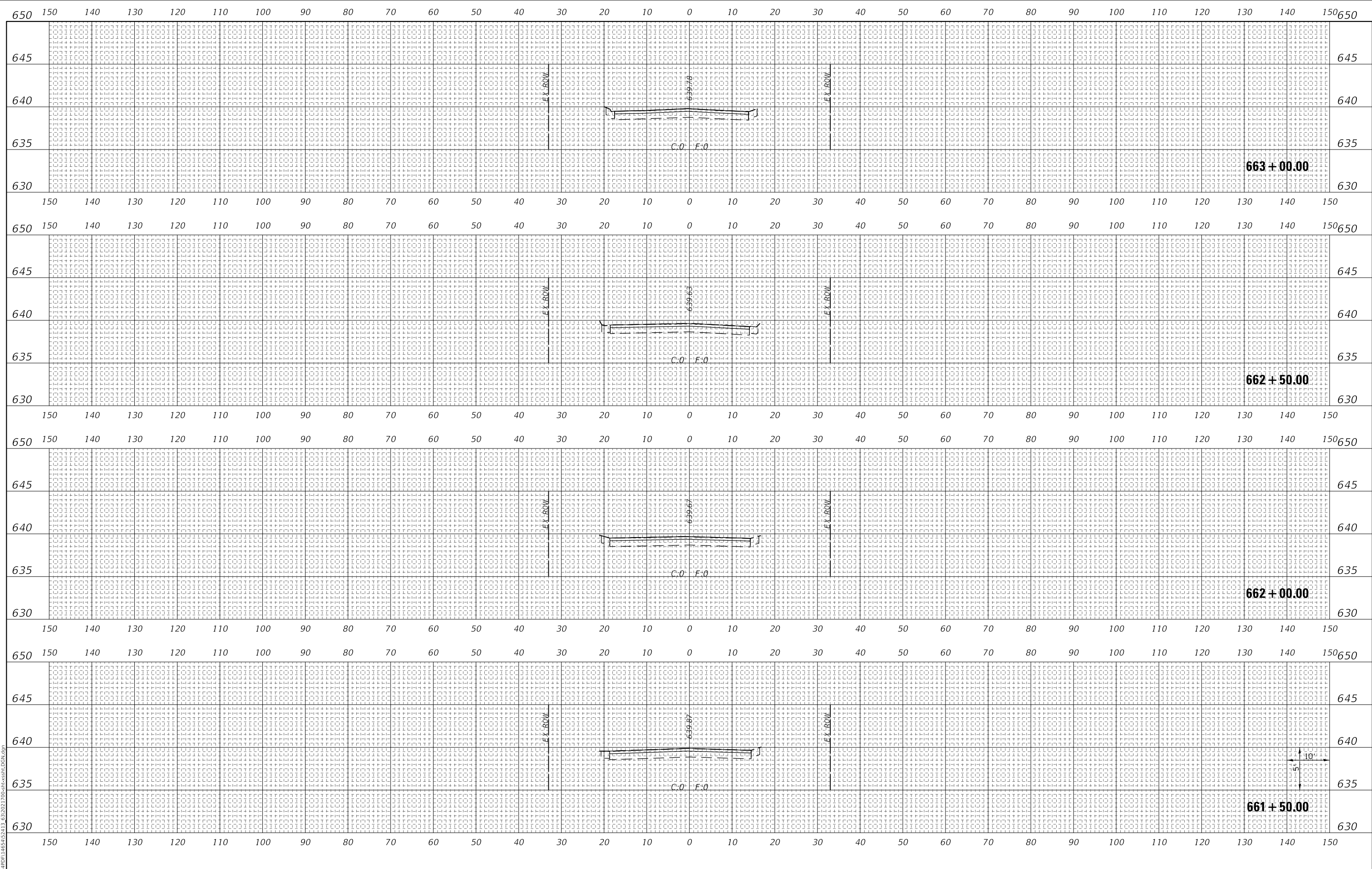


USER NAME	= PWICSS
DESIGNED	- JEP
DRAWN	- MAC
CHECKED	- MFB
DATE	- 2021/07/30
REVISIONS	
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REVISED	-
REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER			
CROSS SECTIONS			
SCALE:	SHEET 13	OF 16 SHEETS	STA. 660+30.62 TO STA. 661+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	142
				CONTRACT NO. 61H33
ILLINOIS		FED. AID PROJECT		



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

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

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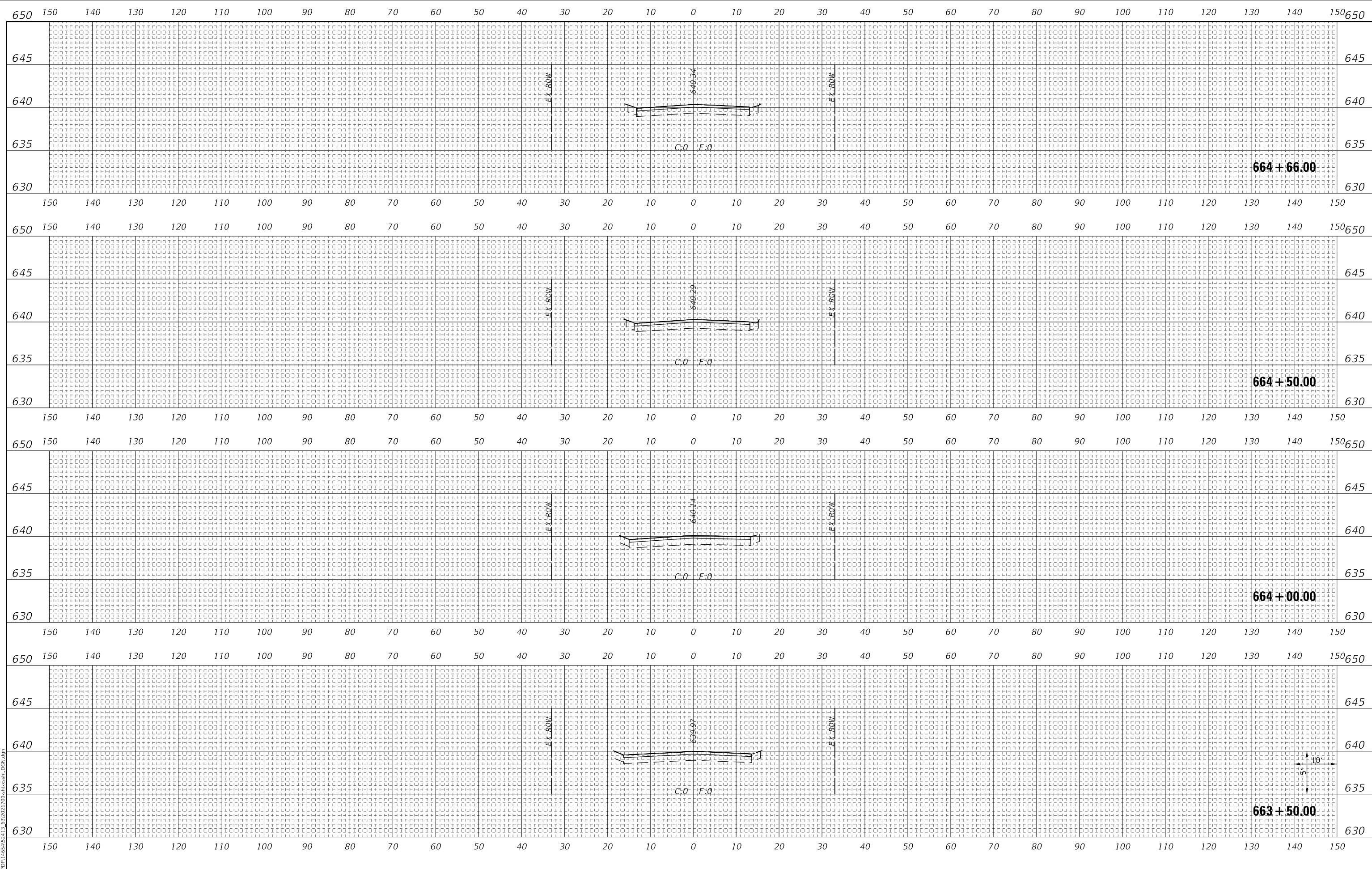
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PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 14 OF 16 SHEETS STA. 661+50.00 TO STA. 663+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	143
CONTRACT NO. 61H33			ILLINOIS FED. AID PROJECT	



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

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

MODEL: PARK_AVE_WEST_95%_Sheets
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USER NAME = PWICSS	DESIGNED - JEP	REVISED -
PLOT SCALE = 20,000' / in.	DRAWN - MAC	REVISED -
PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

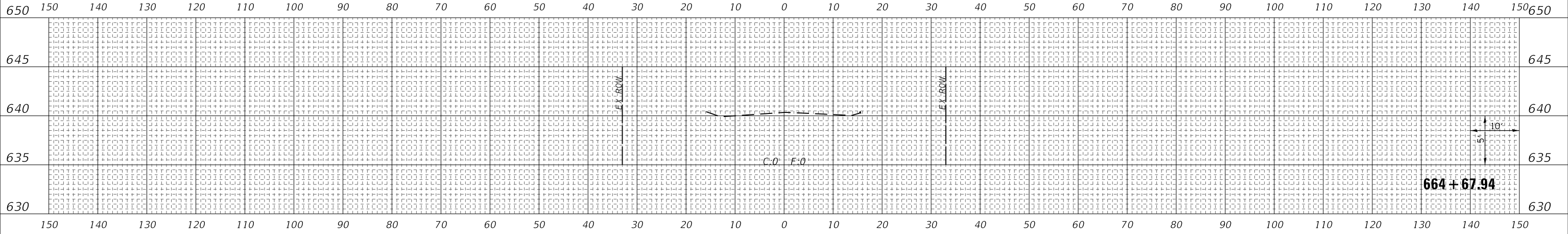
FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER			
CROSS SECTIONS			
SCALE:	SHEET 15	OF 16 SHEETS	STA. 663+50.00 TO STA. 664+66.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	144
				CONTRACT NO. 61H33
				ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: PARK_AVE_WEST_05%_Sheets
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USER NAME = PWICSS	DESIGNED - JEP	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN - MAC	REVISED -
PLOT DATE = 9/20/2022	CHECKED - MFB	REVISED -
	DATE - 2021/07/30	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAU 1255 (PARK AVE. WEST) OVER SKOKIE RIVER
 CROSS SECTIONS**

SCALE: SHEET 16 OF 16 SHEETS STA. 664+67.94 TO STA. 664+67.94

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1255	13-00122-00-BR	LAKE	145	145
CONTRACT NO. 61H33				
ILLINOIS FED. AID PROJECT				