

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	1
		ILLINOIS	CONTRACT NO. 61K52	

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

FOR HIGHWAY STANDARDS, SEE SHEETS NO. 2

TRAFFIC DATA

ROADWAY	ADT	
LAKE ROAD	2023 - 325	TRUCK - 0%
	2050 - 340	TRUCK - 0%

ROADWAY	POSTED / DESIGN SPEEDS
LAKE ROAD	25 MPH / 25 MPH
WOODBINE LANE	25 MPH / 25 MPH

ROADWAY	DESIGN DESIGNATION
LAKE ROAD	LOCAL ROAD
WOODBINE LANE	LOCAL ROAD

MUN ROUTE 1370 (LAKE ROAD)
LAKE WOODBINE BRIDGE
SECTION: 12-00094-00-BR
PROJECT NO.: SEI5(774)
BRIDGE RECONSTRUCTION
LAKE COUNTY
JOB NO.: C-91-253-12

PROJECT SEALS

HW LOCHNER, INC.
 JACOB A. NARDULLI, PE
 * 062-068656
 DATE: 06-05-2024
 SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 1-21, 30-31, 79-86
 EXPIRATION DATE: 11-30-2025



Jacob A. Nardulli

HW LOCHNER, INC.
 JIANQING HONG, SE
 * 081-006053
 DATE: 06-05-2024
 SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 33-71
 EXPIRATION DATE: 11-30-2024



Jianqing Hong

HW LOCHNER, INC.
 ANDREW W. MCKENNA, PE
 * 062-053651
 DATE: 06-05-2024
 SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 22-29, 32
 EXPIRATION DATE: 11-30-2025

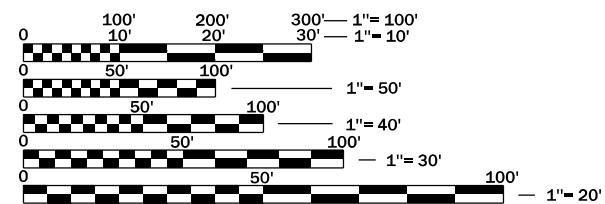


Andrew McKenna

JLK ARCHITECTS
 MEG KINDELIN, AIA
 * 001-022030
 DATE: 06-05-2024
 SIGNATURE AND SEAL APPLY TO SHEETS WITH COMPANY LOGO ONLY FOR SHEETS 72-78
 EXPIRATION DATE: 11-30-2024



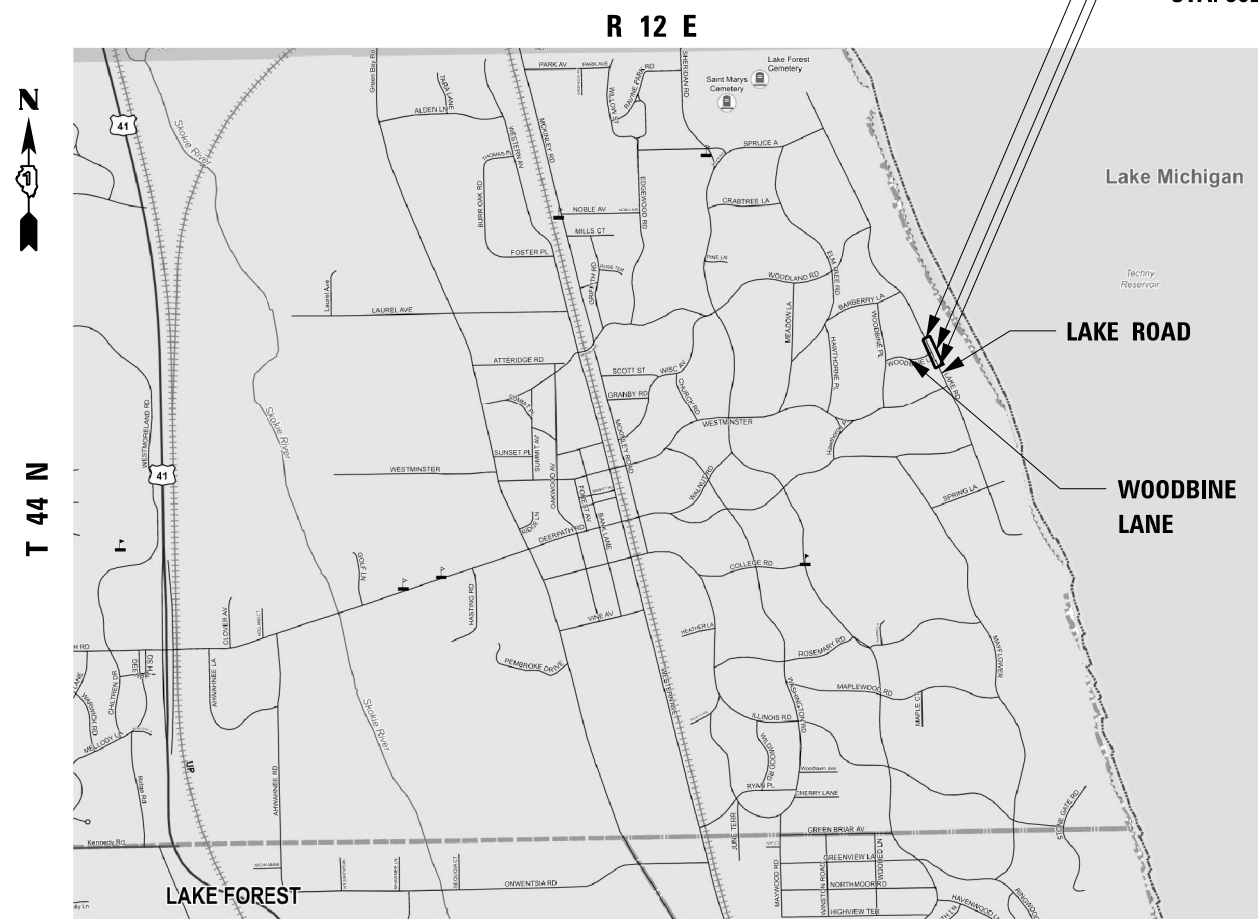
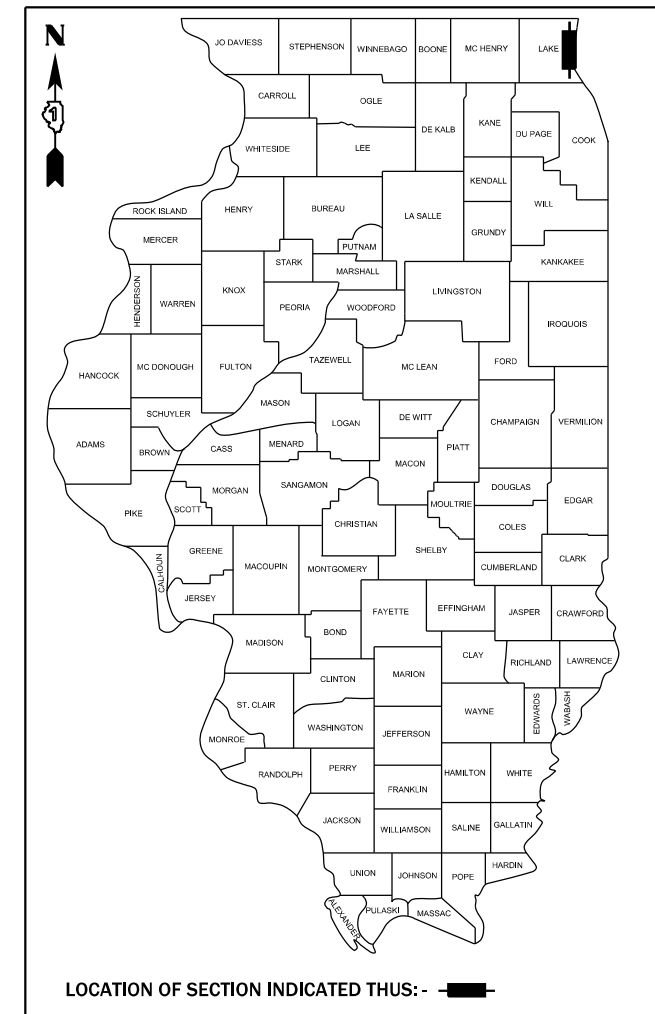
Meg Kindelin



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

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

SUPERINTENDENT OF ENGINEERING: BYRON KUTZ, P.E.
LAKE FOREST NO. (847) 810-3555
CONTRACT NO. 61K52



END IMPROVEMENT
 STA. 305 + 20.00
 EXISTING S.N. 049-6852
 PROPOSED S.N. 049-6851
 BEGIN IMPROVEMENT
 STA. 302 + 10

LOCATION MAP

GROSS LENGTH = 310 FT. = 0.06 MILES
 NET LENGTH = 310 FT. = 0.06 MILES
 0 0.2 MI 0.4 MI
 APPROXIMATE SCALE



225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

APPROVED *Byron Kutz* 4/22 2024
 CITY OF LAKE FOREST, SUPERINTENDENT OF ENGINEERING

PASSED *Jose Rios* May 28 2024
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
 BASED ON LIMITED REVIEW
 May 28 2024
 Jose Rios
 REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

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IDOT HIGHWAY STANDARDS

280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
604086-05	FRAME AND GRATE TYPE 23
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
640001-01	SIGHT SCREEN CHAIN LINK FENCE
664001-02	CHAIN LINK FENCE
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES

IDOT DISTRICT 1 STANDARDS

BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
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LAKE FOREST STANDARD DETAILS

2.03	TYPICAL CROSS-SECTION FOR STREET IMPROVEMENTS IN RESIDENTIAL AREAS
2.06	STANDARD CURB SECTIONS
2.07	RESIDENTIAL DRIVE APPROACH
2.08	STANDARD SIDEWALK RAMP
2.12	SIDEWALK DETAIL
2.16	RAISED REFLECTIVE PAVEMENT MARKERS
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3.01	TYPE A STORM MANHOLE DETAIL
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3.09	STORM SEWER BEDDING DETAIL
11.02	SILT FENCE DETAIL
11.03	STABILIZED CONSTRUCTION ENTRANCE
11.04	TEMPORARY TOPSOIL STOCKPILE

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USER NAME	Personal	DESIGNED	JN	REVISED	-
		DRAWN	JN	REVISED	-
PLOT SCALE		CHECKED	DS	REVISED	-
PLOT DATE	5/24/2024	DATE	6/10/2024	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & HIGHWAY STANDARDS LAKE WOODBINE BRIDGE

SCALE: N/A	SHEET 1 OF 2 SHEETS	STA. N/A	TO STA. N/A
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	2
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. ANY REFERENCE TO A STANDARD THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION OF THAT STANDARD AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
 2. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.
 3. THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS AND THE PLANS.
 4. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL J.U.L.I.E. AT 1-800-892-123 AT FIELD LOCATIONS OF BURIED UTILITIES. A 48 HOUR NOTIFICATION IS REQUIRED.
 5. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND UTILITIES, SURFACE UTILITIES, AND UTILITIES HANGING FROM THE BRIDGE EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.
 7. ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN ALONG RETURNS AND AT POINTS OF CURVATURE, ETC. ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 8. OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE CENTERLINE AND SURVEY ALIGNMENT.
 9. THE OFFSETS FOR DRAINAGE STRUCTURES WITHIN THE CURB ARE MEASURED TO THE EDGE OF PAVEMENT. THE OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE. THE RIM ELEVATIONS FOR DRAINAGE STRUCTURES WITHIN THE CURB ARE AT THE EDGE OF PAVEMENT. THE RIM ELEVATIONS FOR ALL OTHER DRAINAGE STRUCTURES ARE AT THE CENTER OF STRUCTURE (CONCENTRIC STRUCTURE ASSUMED FOR CALCULATIONS OF RIM ELEVATION).
 10. ANY LOOSE MATERIAL DEPOSITED IN THE FLOWLINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS.
 11. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. EXISTING FIELD TILES ENCOUNTERED SHALL BE PERMANENTLY REPAIRED. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES.
 12. THE CONTRACTOR IS RESPONSIBLE FOR DIVERTING AND MAINTAINING THE WATER FLOW FROM THE CONSTRUCTION AREA IN ACCORDANCE WITH ARTICLE 540.04.
 13. STORM SEWER, WATER MAIN, AND SANITARY SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 593, THE CONTRACT SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER. NO SAND TRENCH BACKFILL IS ALLOWED.
 14. ALL SIGNS SHALL BE ERECTED IN STRICT CONFORMANCE WITH SECTION 720 OF THE STANDARD SPECIFICATIONS AND BY A CONTRACTOR PREQUALIFIED IN SIGNING WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
 15. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
- SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.

ALL REMOVED SIGNS SHALL BE RETURNED TO THE CITY OF LAKE FOREST AS APPLICABLE.

LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE CONTRACT AND PRIOR TO ORDERING MATERIALS.
 17. WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 18. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN EXISTING ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
 19. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
 20. ALL SCHOOL DISTRICTS, LOCAL POLICE DEPARTMENTS AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION.
CITY OF LAKE FOREST FIRE DEPARTMENT AND POLICE DEPARTMENT CONTACT:
PHONE: 847-234-2601
 21. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.
 22. THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSUITABLE MATERIALS.
 23. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY OF LAKE FOREST PROPERTY WITHOUT WRITTEN CONSENT FROM THE CITY OF LAKE FOREST. THE CONTRACTOR IS ALLOWED TO CLOSE THE NORTH BEACH ACCESS ROAD UNTIL 5/1/2025 FOR WORKER PARKING AND MATERIAL STORAGE, BUT MUST MAINTAIN 1 LANE FOR FIRE ACCESS. SEE THE DETOUR PLAN FOR ADDITIONAL LOCATION INFORMATION.
 24. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
 25. SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER.
 26. ALL FRAMES, GRATES, SIGNS, FENCES AND DELINEATORS, NEW OR EXISTING, DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
 27. ALL NITROGEN, PHOSPHOROUS AND POTASSIUM FERTILIZER NUTRIENTS HAVE BEEN INTENTIONALLY OMITTED FROM THE CONTRACT ON THE SODDING APPLICATION.
 28. THE CONTRACTOR SHALL VERIFY ALL PLAN DIMENSIONS AND ELEVATIONS LISTED IN THE PLANS AND SPECIFICATIONS.
 29. THE CONSTRUCTION LAYOUT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 30. THE CONTRACTOR IS REQUIRED TO USE ONLY THOSE ROUTES SHOWN IN THE PLANS FOR SITE ACCESS UNLESS OTHERWISE ALLOWED BY THE CITY OF LAKE FOREST.
 31. 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: BYRON KUTZ, P.E. LAKE FOREST SUPERINTENDENT OF ENGINEERING. (847) 810-3555.
 32. THOSE SEEKING THE FULL HYDRAULIC REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT: BYRON KUTZ, P.E. LAKE FOREST SUPERINTENDENT OF ENGINEERING. (847) 810-3555.
 33. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS 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.
 34. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 35. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
 36. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

COMMITMENTS

- A. CONSTRUCTION MOCKUP:
A MOCKUP OF THE CONCRETE SHALL BE PROVIDED PRIOR TO CONSTRUCTION OF THE BRIDGE. THE INTENT IS TO REPLICATE THE COLOR, TONE AND TEXTURE OF THE EXISTING BRIDGE TO THE EXTENT POSSIBLE. A BRIGHT, WHITE CONCRETE SHALL BE AVOIDED. SEE THE CONCRETE STRUCTURE FINISH SPECIAL PROVISION FOR MORE INFORMATION.
- B. CONTINUED PUBLIC INVOLVEMENT:
PUBLIC NOTICE OF CONSTRUCTION, CONSTRUCTION TRUCK ROUTES, AND DETOUR ROUTES SHALL ALL BE INCLUDED IN THE PRE-CONSTRUCTION PLANNING PROCESS AND COMMUNICATED TO THE COMMUNITY.
- C. TREE REMOVAL:
TREE REMOVAL IS NOT ALLOWED FROM APRIL 1 THROUGH SEPTEMBER 30 IN ACCORDANCE WITH IDOT CIRCULAR LETTER 2022-28. TREES IN THE RIGHT-OF-WAY CAN BE REMOVED OR TRIMMED BECAUSE OF SAFETY CONCERNS AT ANY TIME.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
LAKE WOODBINE BRIDGE**

SCALE: N/A	SHEET 2 OF 2 SHEETS	STA. N/A	TO STA. N/A	MUN. RTE. 1370	SECTION 12-00094-00-BR	COUNTY LAKE	TOTAL SHEETS 86	SHEET NO. 3
							CONTRACT NO. 61K52	
							ILLINOIS FED. AID PROJECT	

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 PLOT DATE: 5/24/2024



USER NAME ■ Personal	DESIGNED - JN	REVISED -
PLOT SCALE ■	DRAWN - JN	REVISED -
PLOT DATE ■ 5/24/2024	CHECKED - DS	REVISED -
	DATE - 6/10/2024	REVISED -

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
20101000	TEMPORARY FENCE	FOOT	560	560	
* 20101100	TREE TRUNK PROTECTION	EACH	12	12	
* 20101200	TREE ROOT PRUNING	EACH	2	2	
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	8	8	
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	8	8	
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	8	8	
20200100	EARTH EXCAVATION	CU YD	50	50	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	40	40	
20400800	FURNISHED EXCAVATION	CU YD	280	280	
20800150	TRENCH BACKFILL	CU YD	8	8	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	119	119	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	95	95	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	50	50	
21400100	GRADING AND SHAPING DITCHES	FOOT	6	6	
* 25100900	TURF REINFORCEMENT MAT	SQ YD	628	628	
* 25200110	SODDING, SALT TOLERANT	SQ YD	578	578	
* 25200200	SUPPLEMENTAL WATERING	UNIT	20	20	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	
28000400	PERIMETER EROSION BARRIER	FOOT	258	258	
28000510	INLET FILTERS	EACH	7	7	

* SPECIALTY ITEM

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PLOT DATE = 5/24/2024	DATE - 6/10/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
LAKE WOODBINE BRIDGE**

SCALE: N/A SHEET 1 OF 6 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	4
CONTRACT NO. 61K52			ILLINOIS FED. AID PROJECT	

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
28100107	STONE RIPRAP, CLASS A4	SQ YD	8	8	
28200200	FILTER FABRIC	SQ YD	8	8	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	40	40	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	554	554	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	554	554	
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	474	474	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,068	1,068	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	427	427	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	378	378	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	60	60	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	40	40	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	466	466	
42400800	DETECTABLE WARNINGS	SQ FT	20	20	
44000100	PAVEMENT REMOVAL	SQ YD	475	475	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	216	216	
44000600	SIDEWALK REMOVAL	SQ FT	449	449	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200100	STRUCTURE EXCAVATION	CU YD	135	135	
50300225	CONCRETE STRUCTURES	CU YD	153.3	153.3	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	198.7	198.7	

* SPECIALTY ITEM

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	DRAWN - JN	REVISED -
PLOT SCALE =	CHECKED - DS	REVISED -
PLOT DATE = 5/31/2024	DATE - 6/10/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
LAKE WOODBINE BRIDGE**

SCALE: N/A SHEET 2 OF 6 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	5
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
50300260	BRIDGE DECK GROOVING	SQ YD	273		273
50300300	PROTECTIVE COAT	SQ YD	549		549
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	40.4		40.4
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	186,850		186,850
50800530	MECHANICAL SPLICERS	EACH	536		536
51201800	FURNISHING STEEL PILES HP14X73	FOOT	480		480
51202305	DRIVING PILES	FOOT	480		480
51203800	TEST PILE STEEL HP14X73	EACH	2		2
51204650	PILE SHOES	EACH	10		10
51500100	NAME PLATES	EACH	1		1
51602000	PERMANENT CASING	FOOT	320		320
51603000	DRILLED SHAFT IN SOIL	CU YD	171.1		171.1
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1		1
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	18		18
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	69		69
55100300	STORM SEWER REMOVAL 8"	FOOT	20		20
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	134		134
58700300	CONCRETE SEALER	SQ FT	5,434		5,434
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	58		58
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2		2

* SPECIALTY ITEM

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USER NAME	Personal	DESIGNED	JN	REVISED	-
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PLOT SCALE		CHECKED	DS	REVISED	-
PLOT DATE	5/24/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
LAKE WOODBINE BRIDGE**

SCALE: N/A SHEET 3 OF 6 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	6
CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	76	76	
60146305	PIPE UNDERDRAINS FOR STRUCTURES (SPECIAL) 4"	FOOT	22	22	
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	1	1	
60207000	CATCH BASINS, TYPE A, TYPE 8 GRATE	EACH	1	1	
60208230	CATCH BASINS, TYPE C, TYPE 23 FRAME AND GRATE	EACH	1	1	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	1	1	
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
60260100	INLETS TO BE ADJUSTED	EACH	1	1	
60402210	GRATES, TYPE 8	EACH	1	1	
60404940	FRAMES AND GRATES, TYPE 23	EACH	1	1	
60500050	REMOVING CATCH BASINS	EACH	2	2	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	205	205	
* 64000110	SIGHT SCREEN (CHAIN LINK FENCE) 6'	FOOT	314	314	
* 66407600	CHAIN LINK GATES, 6' X 12' DOUBLE	EACH	3	3	
67100100	MOBILIZATION	L SUM	1	1	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	5	5	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	39	39	
	* SPECIALTY ITEM				

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USER NAME	Personal	DESIGNED	JN	REVISED	-
		DRAWN	JN	REVISED	-
PLOT SCALE	-	CHECKED	DS	REVISED	-
PLOT DATE	5/24/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
LAKE WOODBINE BRIDGE**

SCALE: N/A SHEET 4 OF 6 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	7
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

PAY ITEM NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED / 20% LOCAL	
				BRIDGE REPLACEMENT	TRAINEES
				0010	0042
				URBAN	URBAN
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	47	47	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	9	9	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2	
* A2001716	TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2002516	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2007816	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	2	
* A2C05660	TREE, OSTRYA VIRGINIANA (IRONWOOD), 7' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	2	2	
X0325225	BRICK PAVEMENT REMOVAL AND REPLACEMENT	SQ FT	254	254	
X0327357	CONSTRUCTION VIBRATION MONITORING	L SUM	1	1	
X0900020	THERMAL INTEGRITY PROFILE TESTING	EACH	8	8	
X0900044	THERMAL INTEGRITY PROFILE DATA COLLECTION	FOOT	480	480	
X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	50	50	
* X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.25	0.25	
* X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	94	94	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2	
X5030289	CONCRETE FINISH	L SUM	1	1	
* X5090850	ORNAMENTAL RAILING	FOOT	231	231	
X5510011	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	2	2	
X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	3	3	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	10	10	
*	SPECIALTY ITEM				

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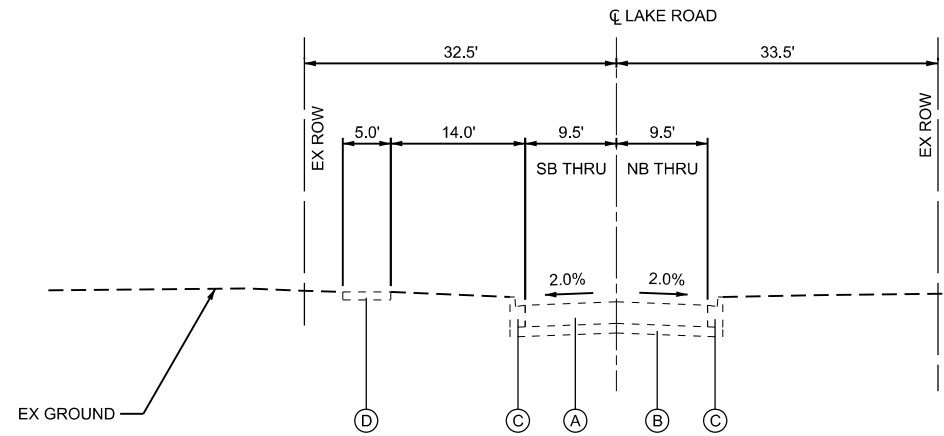


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PLOT DATE	5/24/2024	DATE	6/10/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

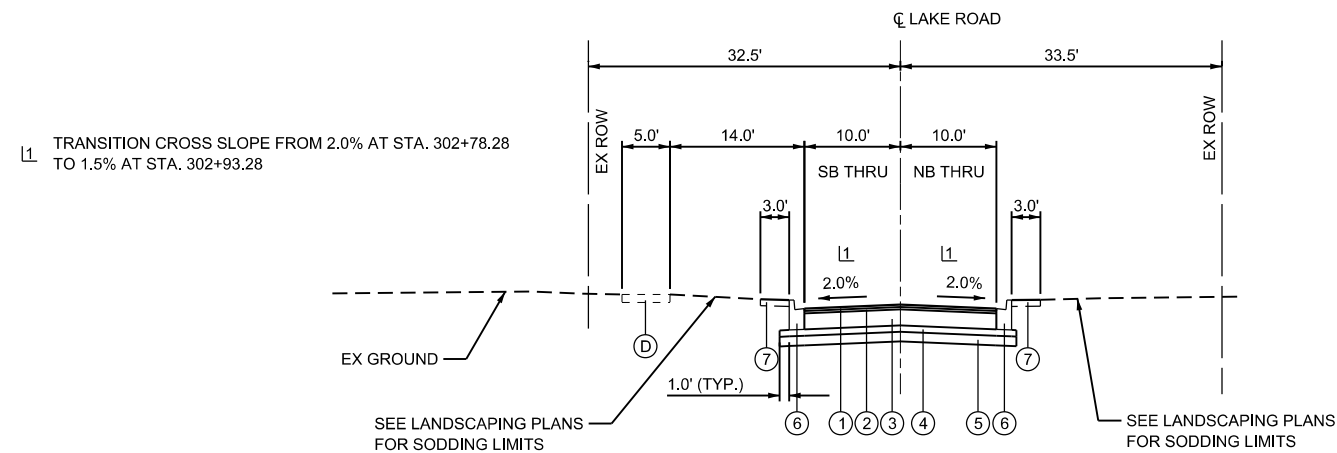
SUMMARY OF QUANTITIES			
LAKE WOODBINE BRIDGE			
SCALE: N/A	SHEET 5 OF 6 SHEETS	STA. N/A	TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	8
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



- EXISTING LEGEND**
- (A) EXISTING HMA PAVEMENT 11.5"
 - (B) EXISTING SUBBASE 6.5"
 - (C) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - (D) EXISTING CONCRETE SIDEWALK - 5 INCH

- PROPOSED LEGEND**
- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 1 1/2" (40604060)
 - (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 2 1/4" (40603080)
 - (3) HOT-MIX ASPHALT BASE COURSE, 10" (35501324)
 - (4) SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)
 - (5) AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
 - (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (60603800)
 - (7) TOPSOIL EXCAVATION AND PLACEMENT, 4" (21101505)
 - (8) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)
SUBBASE GRANULAR MATERIAL, TYPE B 4" (INCIDENTAL)



HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndesign	QMP
PAVEMENT RECONSTRUCTION		
1.5" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	4% @ 50 Gyr.	LR1030-2
2.25" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	4% @ 50 Gyr.	LR1030-2
10" HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0)	4% @ 50 Gyr.	LR1030-2
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2.		

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

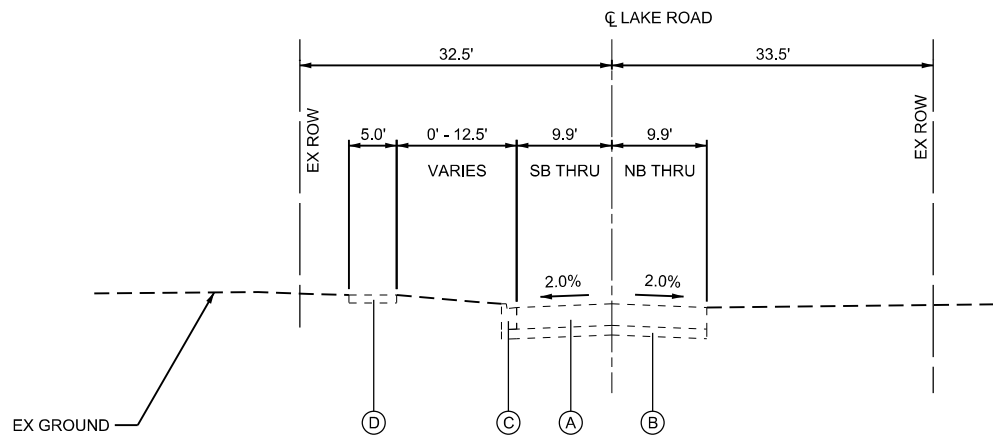
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE RECLAIMED MATERIALS SPECIFICATIONS.

THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED BEFORE AND AFTER THE LAST LIFT OF BINDER COURSE.

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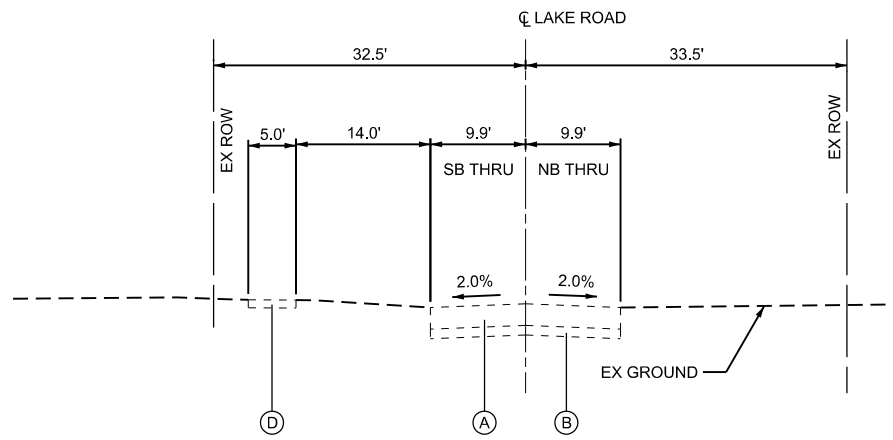
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PLOT SCALE	-	DATE	6/10/2024	REVISED	-
PLOT DATE	6/4/2024				

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	10
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



**EXISTING TYPICAL SECTION
LAKE ROAD**

NORTH OF BRIDGE
STA. 304+01 TO STA. 304+35

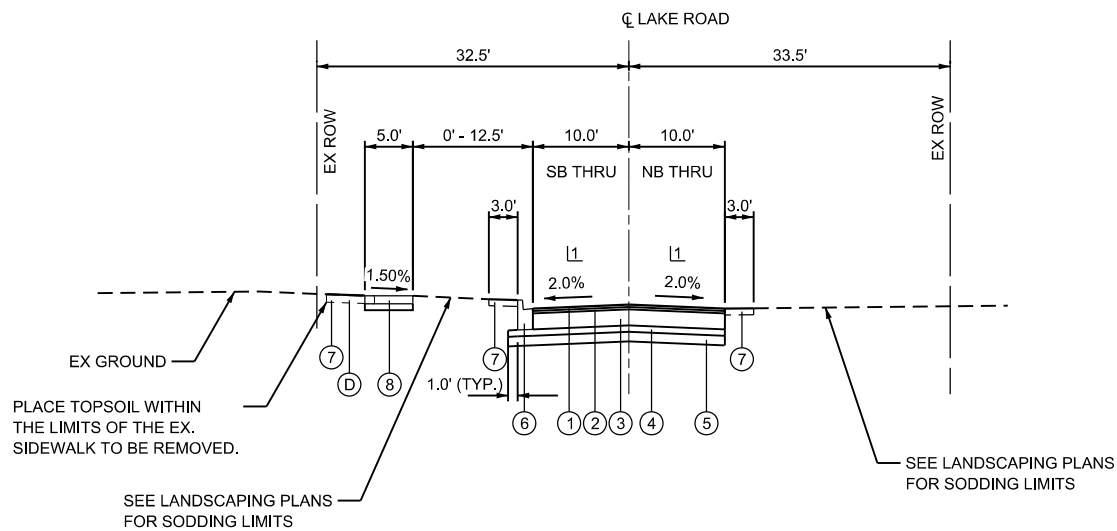


**EXISTING TYPICAL SECTION
LAKE ROAD**

NORTH OF BRIDGE
STA. 304+35 TO STA. 305+20

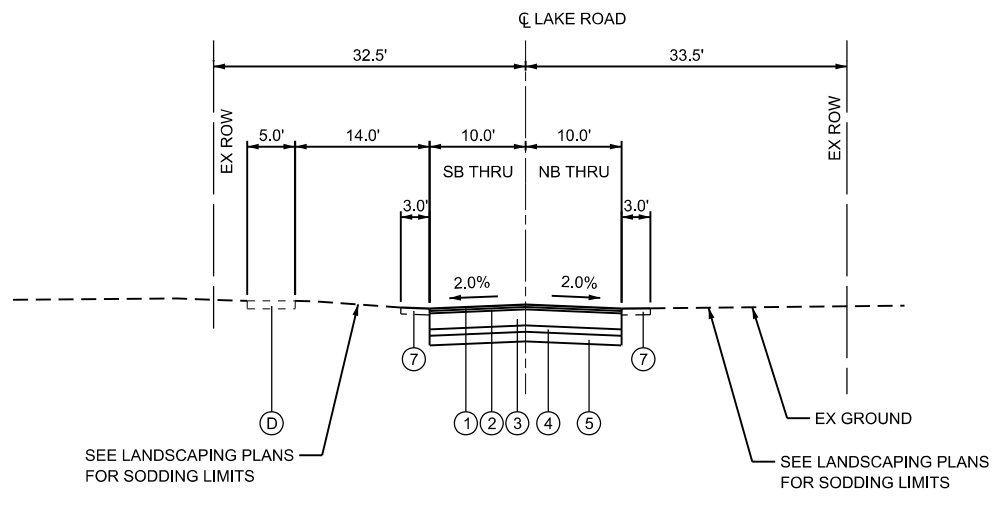
- EXISTING LEGEND**
- (A) EXISTING HMA PAVEMENT 11.5"
 - (B) EXISTING SUBBASE 6.5"
 - (C) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - (D) EXISTING CONCRETE SIDEWALK - 5 INCH

L1 TRANSITION CROSS SLOPE FROM 1.5% AT STA. 304+14.27 TO 2.0% AT STA. 304+29.27



**PROPOSED TYPICAL SECTION
LAKE ROAD**

NORTH OF BRIDGE
STA. 304+14.27 TO STA. 304+42.24



**PROPOSED TYPICAL SECTION
LAKE ROAD**

NORTH OF BRIDGE
STA. 304+42.24 TO STA. 305+20.00

- PROPOSED LEGEND**
- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 1 1/2" (40604060)
 - (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 - 2 1/4" (40603080)
 - (3) HOT-MIX ASPHALT BASE COURSE, 10" (35501324)
 - (4) SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)
 - (5) AGGREGATE SUBGRADE IMPROVEMENT 12" (30300112)
 - (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (60603800)
 - (7) TOPSOIL EXCAVATION AND PLACEMENT, 4" (21101505)
 - (8) PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH (42400200)
SUBBASE GRANULAR MATERIAL, TYPE B 4" (INCIDENTAL)

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 PROJECT: 12-00094-00-BR

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PLOT SCALE	-	CHECKED	DS	REVISED	-
PLOT DATE	6/4/2024	DATE	6/10/2024	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	11
CONTRACT NO. 61K52				
		ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE					
	EARTH EX.	EXCAVATION USED AS EMBANKMENT, ADJ. FOR SHRINKAGE (15%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+), SHORTAGE (-)	TOPSOIL EX. AND PLACEMENT
	20200100			20400800	21101505
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
STA. 303+10.27 TO STA. 303+97.27	50	43	320	-277	95

NOTE: TOPSOIL EXCAVATION AND PLACEMENT AT ALL DISTURBED AREAS ASSUMED DEPTH OF 4"

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL					
STA	STA	LT / RT	SQ FT	DEPTH	CU YD
302+10.0	302+95.9	BOTH	539.1	12	20.0
304+14.3	305+20.0	BOTH	527.2	12	19.5
TOTAL					40

ASSUMED QUANTITY EQUAL TO AGGREGATE SUBGRADE IMPROVEMENT

21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION				
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	539.1	60.0
304+14.3	305+20.0	BOTH	527.2	59.0
TOTAL				119

25% OF NEW PAVEMENT AREA

21101615 TOPSOIL FURNISH AND PLACE 4"		
STA	STA	SQ YD
N/A	N/A	50
TOTAL		50

NOMINAL QUANTITY TO BE USED AT THE ENGINEER'S DISCRETION

30300001 AGGREGATE SUBGRADE IMPROVEMENT					
STA	STA	LT / RT	SQ FT	DEPTH	CU YD
302+10.0	302+95.9	BOTH	539.1	12	20.0
304+14.3	305+20.0	BOTH	527.2	12	19.5
TOTAL					40

25% OF NEW PAVEMENT AREA ASSUMED 12" DEPTH

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"				
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	2607.9	291
304+14.3	305+20.0	BOTH	2183.9	263
TOTAL				554

31101200 SUBBASE GRANULAR MATERIAL, TYPE B 4"				
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	2336	291
304+17.3	305+20.0	BOTH	2081	263
TOTAL				554

35501324 HOT-MIX ASPHALT BASE COURSE, 10"				
STA	STA	LT / RT	SQ FT	SQ YD
302+10.0	302+95.9	BOTH	2,156	240
304+14.3	305+20.0	BOTH	2,109	234
TOTAL				474

40600275 BITUMINOUS MATERIALS (PRIME COAT)						
STA	STA	LT / RT	SQ FT	LIFTS	RATE	POUND
302+10.0	302+95.9	BOTH	2156	1	0.250	540
304+14.3	305+20.0	BOTH	2109	1	0.250	528
TOTAL						1,068

40600290 BITUMINOUS MATERIALS (TACK COAT)						
STA	STA	LT / RT	SQ FT	LIFTS	RATE	POUND
302+10.0	302+95.9	BOTH	2156	4	0.025	216
304+14.3	305+20.0	BOTH	2109	4	0.025	211
TOTAL						427

40600370 LONGITUDINAL JOINT SEALANT					
STA	STA	OFFSET	LIFTS	LENGTH	FOOT
302+10.0	302+93.3	0.0	2	83.0	166
304+14.3	305+20.0	0.0	2	106.0	212
TOTAL					378

PLACE BEFORE AND AFTER THE LAST LIFT OF BINDER COURSE

40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50							
STA	STA	LT / RT	SQ FT	SQ YD	THICK. (IN.)	RATE	TON
302+10.0	302+95.9	BOTH	2156.4	239.6	2 1/4	112	30
304+14.3	305+20.0	BOTH	2108.7	234.3	2 1/4	112	30
TOTAL							60

40604060 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50							
STA	STA	LT / RT	SQ FT	SQ YD	THICK. (IN.)	RATE	TON
302+10.0	302+95.9	BOTH	2156.4	239.6	1 1/2	112	20
304+14.3	305+20.0	BOTH	2108.7	234.3	1 1/2	112	20
TOTAL							40

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH			
STA	STA	LT / RT	SQ FT
302+37.3	302+73.5	LT	193
302+94.9	303+08.3	LT	106
304+14.2	304+44.1	LT	167
TOTAL			466

42400800 DETECTABLE WARNINGS			
STA	STA	LT / RT	SQ FT
302+70.2	302+72.7	LT	10
302+94.9	302+97.4	LT	10
TOTAL			20

44000100 PAVEMENT REMOVAL				
STA	STA	LT / RT	SQ FT	SQ YD
302+10.00	302+96.6	BOTH	2,205.7	245
304+14.3	305+20.0	BOTH	2,072.0	230
TOTAL				475

44000500 COMBINATION CURB AND GUTTER REMOVAL					
STA	OFFSET	STA	OFFSET	LT / RT	FOOT
302+10.0	10.9	302+73.0	28.1	LT	72
302+10.0	11.1	302+96.1	8.0	RT	87
302+95.8	28.9	303+05.2	11.9	LT	22
304+01.5	11.3	304+35.8	11.0	LT	35
TOTAL					216

44000600 SIDEWALK REMOVAL			
STA	STA	LT / RT	SQ FT
302+37.3	302+72.1	LT	169
302+95.4	303+05.2	LT	43
304+01.3	304+44.1	LT	237
TOTAL			449

60603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12			
STA	STA	LT / RT	FOOT
302+10.0	302+75.3	LT	75
302+10.0	302+93.3	RT	83
302+93.3	302+97.2	LT	19
304+14.3	304+42.2	LT	28
TOTAL			205

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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



USER NAME	Personal	DESIGNED	JN	REVISED	-
DRAWN	JN	REVISED	-		
PLOT SCALE	-	CHECKED	DS	REVISED	-
PLOT DATE	5/31/2024	DATE	6/10/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
LAKE WOODBINE BRIDGE

SCALE: N/A SHEET 1 OF 2 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	12
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

64000110 SIGHT SCREEN (CHAIN LINK FENCE) 6'					
STA	OFFSET	STA	OFFSET	LT / RT	FOOT
302+08.9	5.0	302+08.9	32.0	RT	27
302+08.9	7.0	302+80.5	57.7	LT	124
302+92.5	57.7	303+12.7	32.5	LT	68
304+25.5	32.5	305+21.0	7.0	LT	67
305+21.0	5.0	304+55.3	33.2	RT	28
TOTAL					314

66407600 CHAIN LINK GATES, 6' X 12' DOUBLE			
STA	OFFSET	LT / RT	EACH
302+09.0	0.0	BOTH	1
302+87.0	57.7	LT	1
305+21.0	0.0	BOTH	1
TOTAL			3

72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A			
STA	OFFSET	LT/RT	EACH
302+60.7	15.4	RT	1
304+95.1	15.3	LT	1
TOTAL			2

72400310 REMOVE SIGN PANEL - TYPE 1			
STA	OFFSET	LT/RT	SQ FT
302+60.7	15.4	RT	2.5
304+95.1	15.3	LT	2.5
TOTAL			5

78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"			
STA	STA	LT/RT	FOOT
302+73.2	302+94.5	LT	18
302+73.2	302+94.5	LT	21
TOTAL			39

78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"			
STA	STA	LT/RT	FOOT
302+73.2	302+94.5	LT	47
TOTAL			47

78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"			
STA	STA	LT/RT	FOOT
302+76.0	302+85.0	LT	9
TOTAL			9

78100100 RAISED REFLECTIVE PAVEMENT MARKER			
STA	OFFSET	LT / RT	EACH
302+47.0	5.0	LT	1
302+79.4	19.5	LT	1
TOTAL			2

X0325225 BRICK PAVEMENT REMOVAL AND REPLACEMENT			
STA	STA	LT / RT	SQ FT
302+62.2	302+91.3	RT	154
304+11.0	304+27.8	RT	100
TOTAL			254

X40201000 TEMPORARY ACCESS (PRIVATE ENTRANCE)			
STA	STA	LT / RT	EACH
302+62.2	302+91.3	RT	1
304+11.0	304+27.8	RT	1
TOTAL			2

X6700407 ENGINEER'S FIELD OFFICE, TYPE A		
START	END	CAL MO
1/1/2025	10/31/2025	10
TOTAL		10

Z0030850 TEMPORARY INFORMATION SIGNING		
SHEET	DESCRIPTION	SQ FT
DETOUR PLAN	Lake Road CLOSED NORTH OF E Westminster LOCAL TRAFFIC ONLY	20
DETOUR PLAN	Lake Road CLOSED SOUTH OF Barberrry Lane LOCAL TRAFFIC ONLY	20
TOTAL		40

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USER NAME	Personal	DESIGNED	JN	REVISED	-
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PLOT SCALE	-	CHECKED	DS	REVISED	-
PLOT DATE	5/24/2024	DATE	6/10/2024	REVISED	-

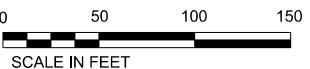
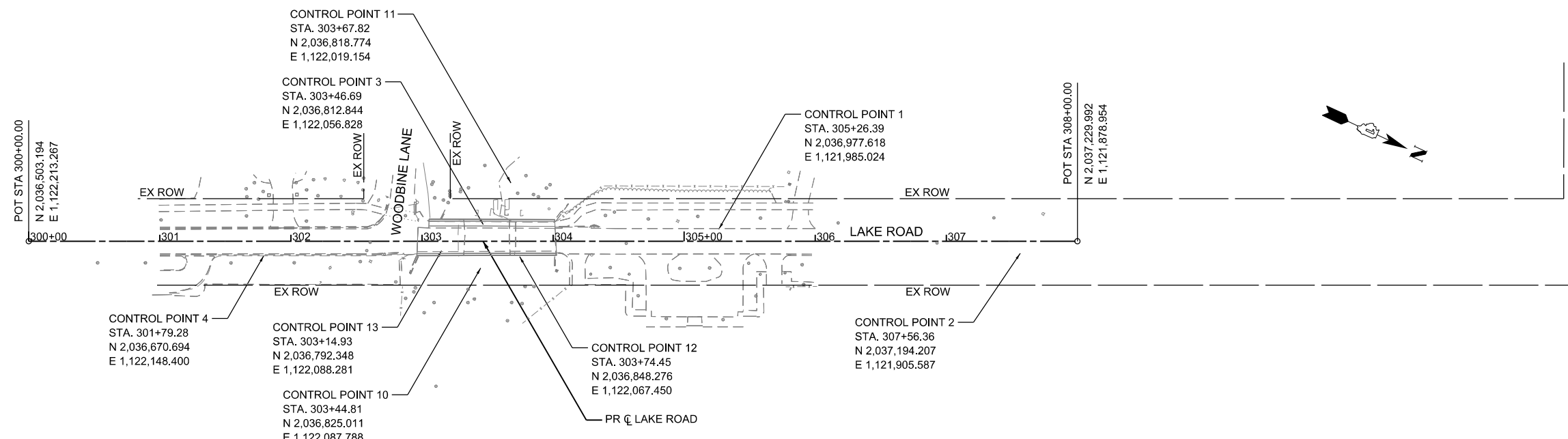
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES
LAKE WOODBINE BRIDGE**

SCALE: N/A SHEET 2 OF 2 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	13
				CONTRACT NO. 61K52
		ILLINOIS	FED. AID PROJECT	

ALIGNMENT COORDINATES				
ALIGNMENT	POINT	STATION	NORTHING	EASTING
PR CENTERLINE LAKE ROAD	POT	300+00.00	2,036,503.194	1,122,213.267
PR CENTERLINE LAKE ROAD	POT	308+00.00	2,037,229.992	1,121,878.954



BENCHMARKS

BM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
7-52	2,036,009.568	1,120,078.288	670.40	CHISELED "X" IN MANHOLE AT THE INTERSECTION OF WESTMINSTER AVE. AND ELM TREE RD.

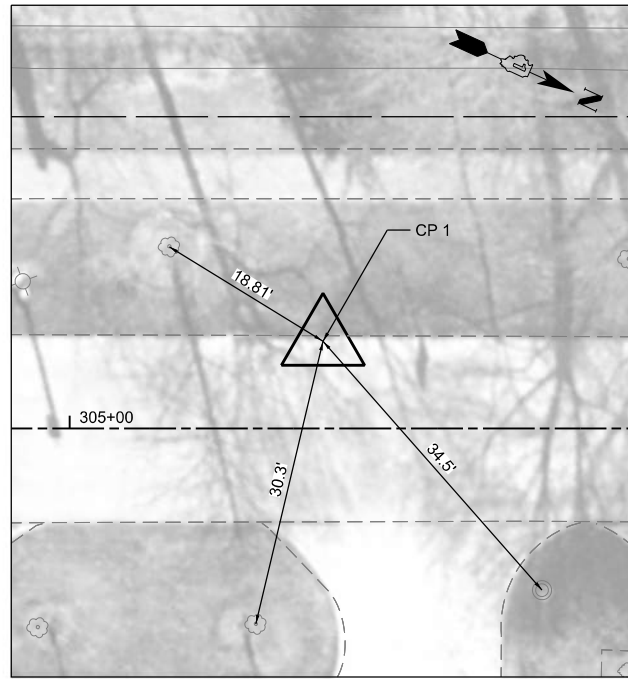
DATUM NOTE:

HORIZONTAL DATUM SHOWN HEREON ARE ILLINOIS STATE PLANE, EAST ZONE, NAD83(2011) GRID VALUES.

VERTICAL DATUM SHOWN HEREON IS NAVD88 BASED ON 2ND ORDER CONTROL ESTABLISHED BY US COAST AND GEODETIC SURVEY, 1935. APPROXIMATE LATITUDE N 42.25528 LONGITUDE W -87.83162.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	14
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

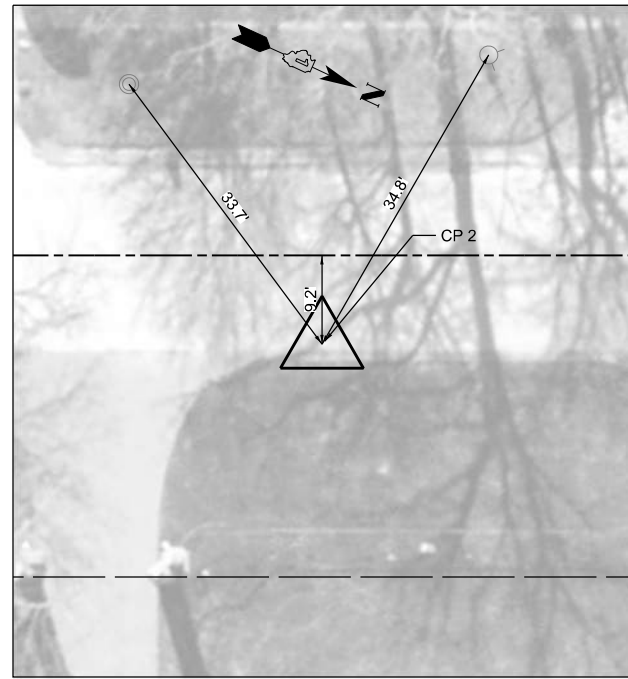
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		DRAWN	JN	REVISED	-
PLOT SCALE		CHECKED	DS	REVISED	-
PLOT DATE	5/24/2024	DATE	6/10/2024	REVISED	-



CONTROL POINT 1

STA. 305+26.39, 9.10' LT

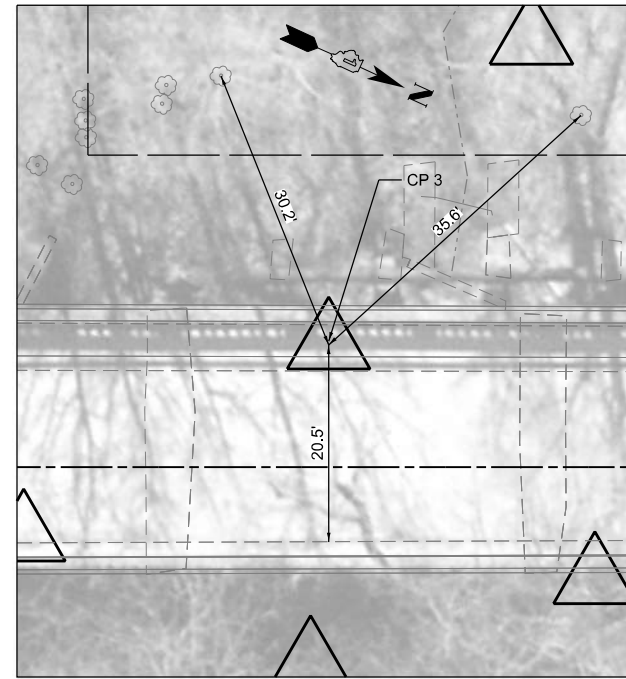
N 2,036,977.618
E 1,121,985.024
ELEV. 653.70



CONTROL POINT 2

STA. 307+56.36, 9.24' RT

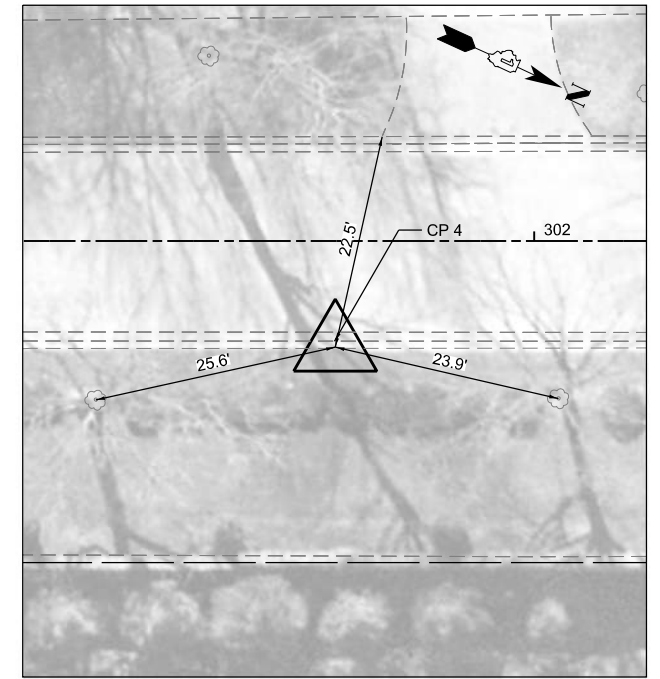
N 2,037,194.207
E 1,121,905.587
ELEV. 659.03



CONTROL POINT 3

STA. 303+46.69, 12.72' LT

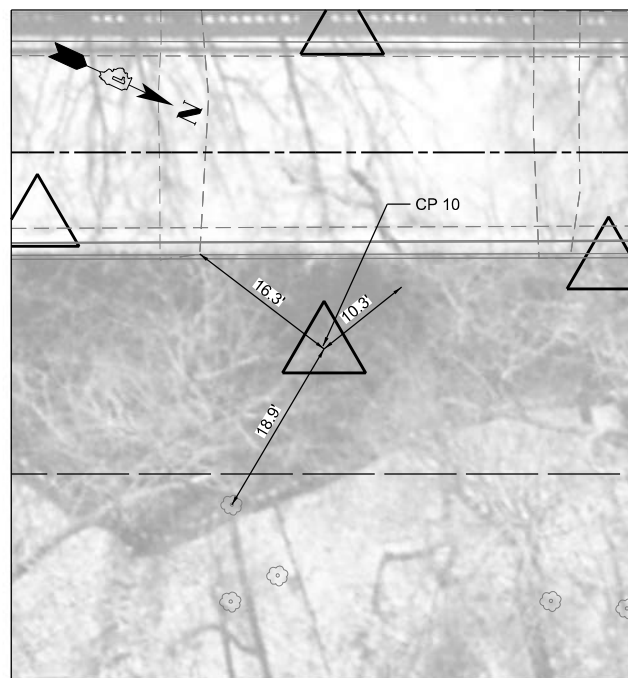
N 2,036,812.844
E 1,122,056.828
ELEV. 652.76



CONTROL POINT 4

STA. 301+79.28, 11.07' RT

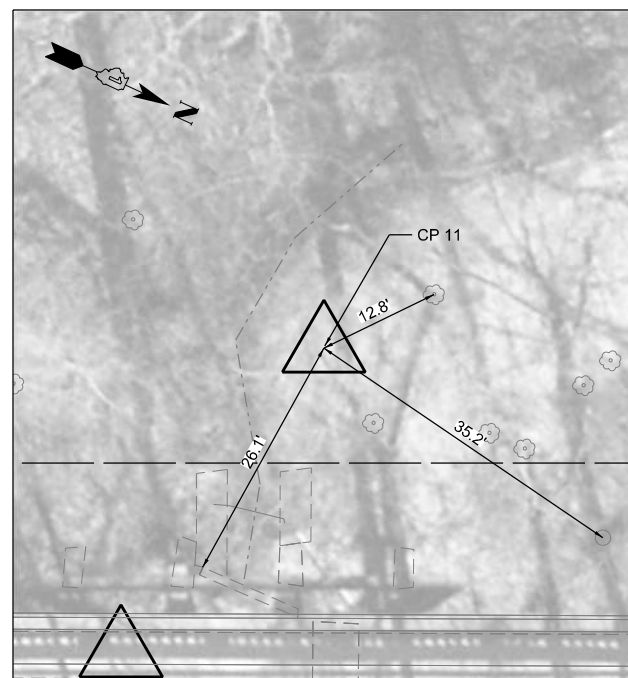
N 2,036,670.694
E 1,122,148.400
ELEV. 651.76



CONTROL POINT 10

STA. 303+44.81, 20.49' RT

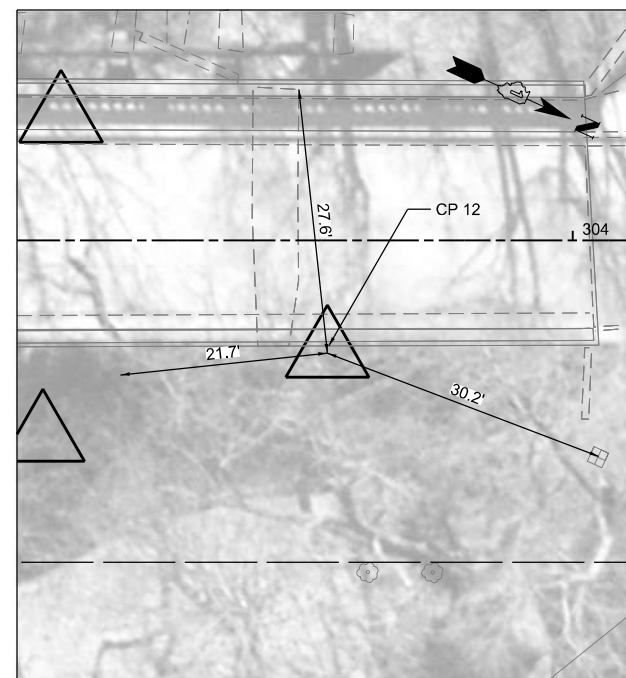
N 2,036,825.011
E 1,122,087.788
ELEV. 629.98



CONTROL POINT 11

STA. 303+67.82, 44.47' RT

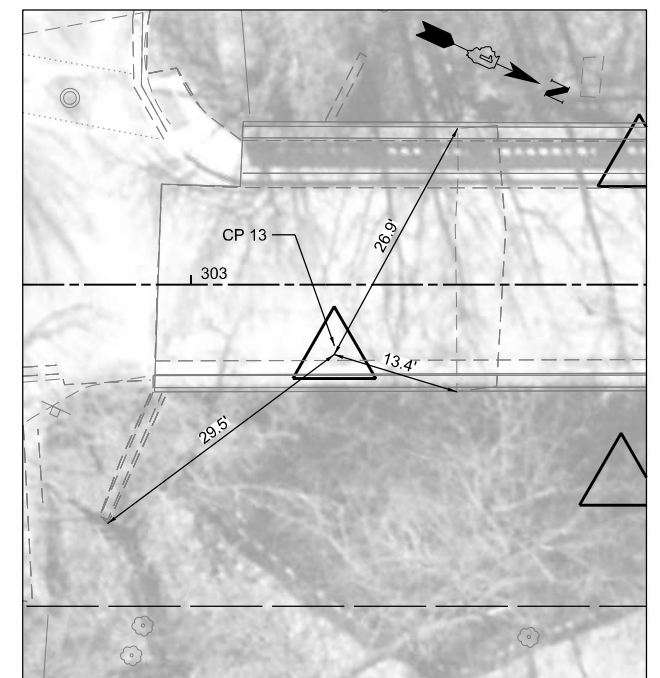
N 2,036,818.774
E 1,122,019.154
ELEV. 629.43



CONTROL POINT 12

STA. 303+74.45, 11.73' RT

N 2,036,848.276
E 1,122,067.450
ELEV. 635.45



CONTROL POINT 13

STA. 303+14.93, 7.29' RT

N 2,036,792.348
E 1,122,088.281
ELEV. 640.29

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225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)



USER NAME	Personal	DESIGNED	JN	REVISED	-
DRAWN	JN	REVISIONS	-	REVISIONS	-
PLOT SCALE	-	CHECKED	DS	REVISIONS	-
PLOT DATE	5/24/2024	DATE	6/10/2024	REVISIONS	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

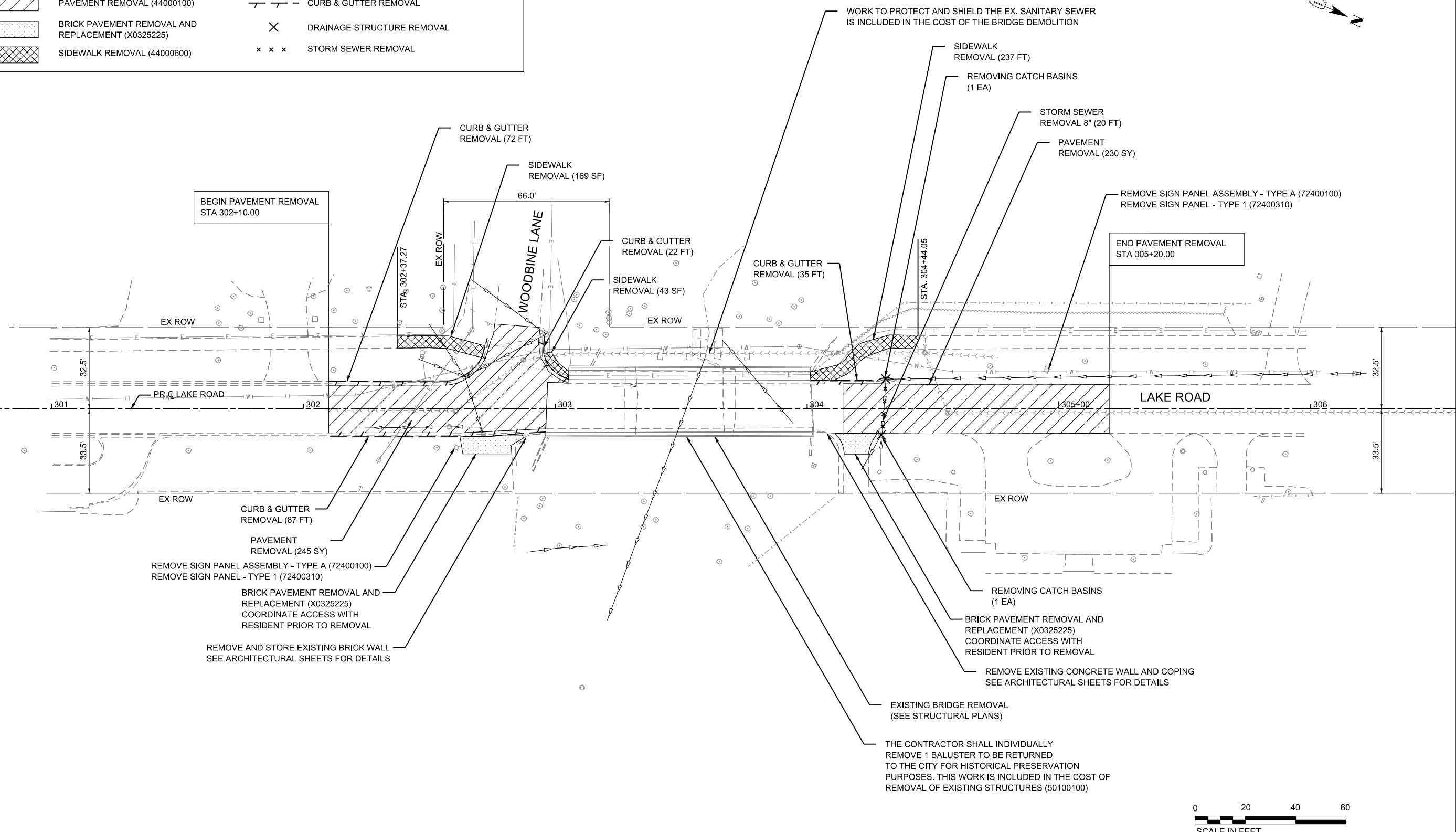
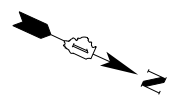
**ALIGNMENT, TIES, AND BENCHMARKS
LAKE WOODBINE BRIDGE**

SCALE: 1"=10' SHEET 2 OF 2 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	15
CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	

REMOVAL LEGEND

	PAVEMENT REMOVAL (44000100)		CURB & GUTTER REMOVAL
	BRICK PAVEMENT REMOVAL AND REPLACEMENT (X0325225)		DRAINAGE STRUCTURE REMOVAL
	SIDEWALK REMOVAL (44000600)		STORM SEWER REMOVAL



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USER NAME	Personal	DESIGNED	JN	REVISED	-
DRAWN	JN	REVISED	-	DATE	6/10/2024
CHECKED	DS	REVISED	-	DATE	6/10/2024
PLOT SCALE		REVISED	-	DATE	6/10/2024
PLOT DATE	5/24/2024	REVISED	-	DATE	6/10/2024

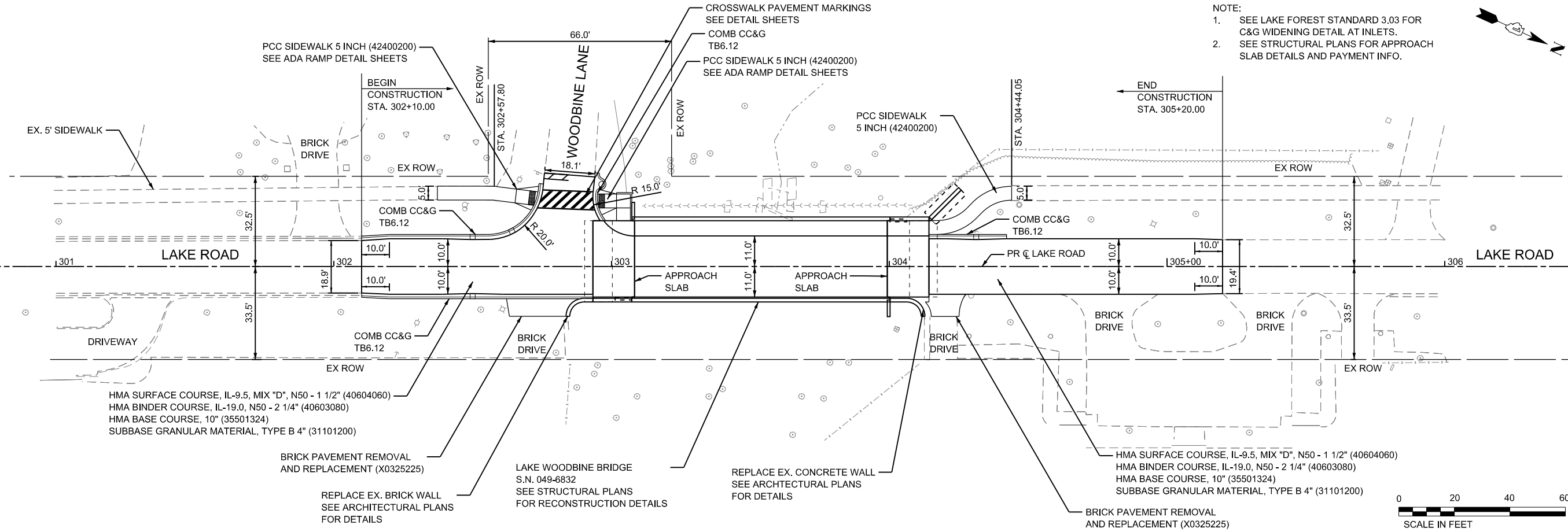
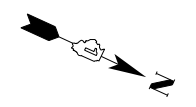
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
LAKE WOODBINE BRIDGE**

SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. 302+10 TO STA. 305+20

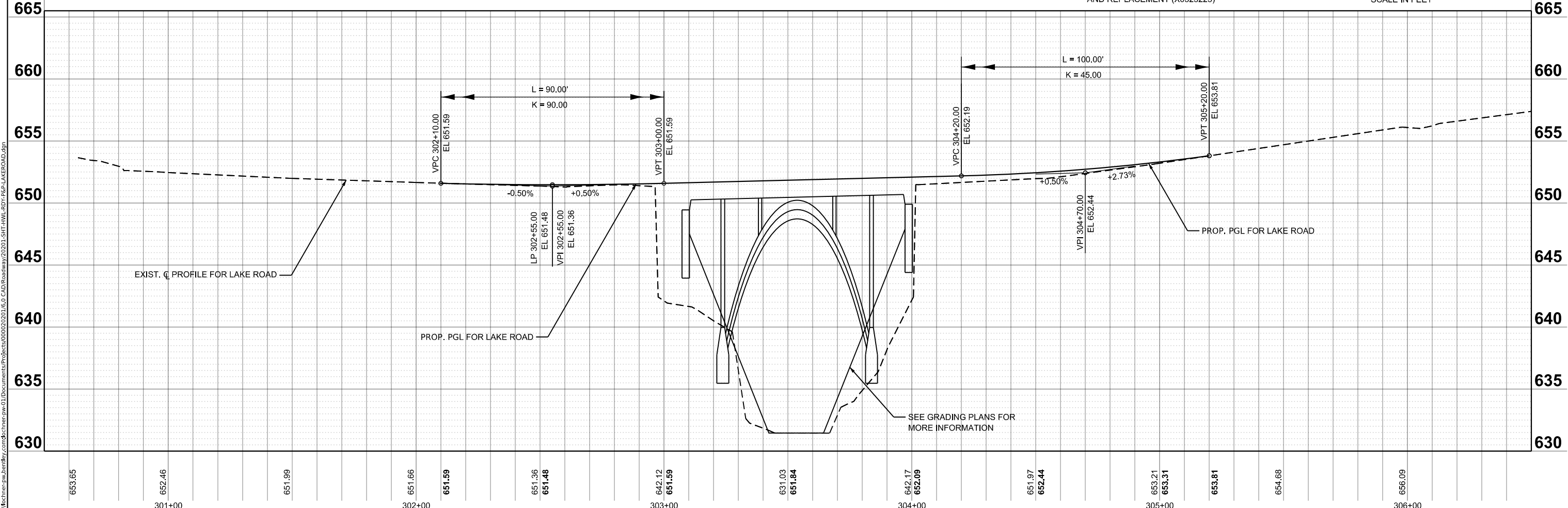
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	16
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

- NOTE:
- SEE LAKE FOREST STANDARD 3.03 FOR C&G WIDENING DETAIL AT INLETS.
 - SEE STRUCTURAL PLANS FOR APPROACH SLAB DETAILS AND PAYMENT INFO.



HMA SURFACE COURSE, IL-9.5, MIX "D", N50 - 1 1/2" (40604060)
 HMA BINDER COURSE, IL-19.0, N50 - 2 1/4" (40603080)
 HMA BASE COURSE, 10" (35501324)
 SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)

HMA SURFACE COURSE, IL-9.5, MIX "D", N50 - 1 1/2" (40604060)
 HMA BINDER COURSE, IL-19.0, N50 - 2 1/4" (40603080)
 HMA BASE COURSE, 10" (35501324)
 SUBBASE GRANULAR MATERIAL, TYPE B 4" (31101200)



Lochner
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME = Personal	DESIGNED - JN	REVISED -
PLOT SCALE =	DRAWN - JN	REVISED -
PLOT DATE = 5/24/2024	CHECKED - DS	REVISED -
	DATE - 6/10/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

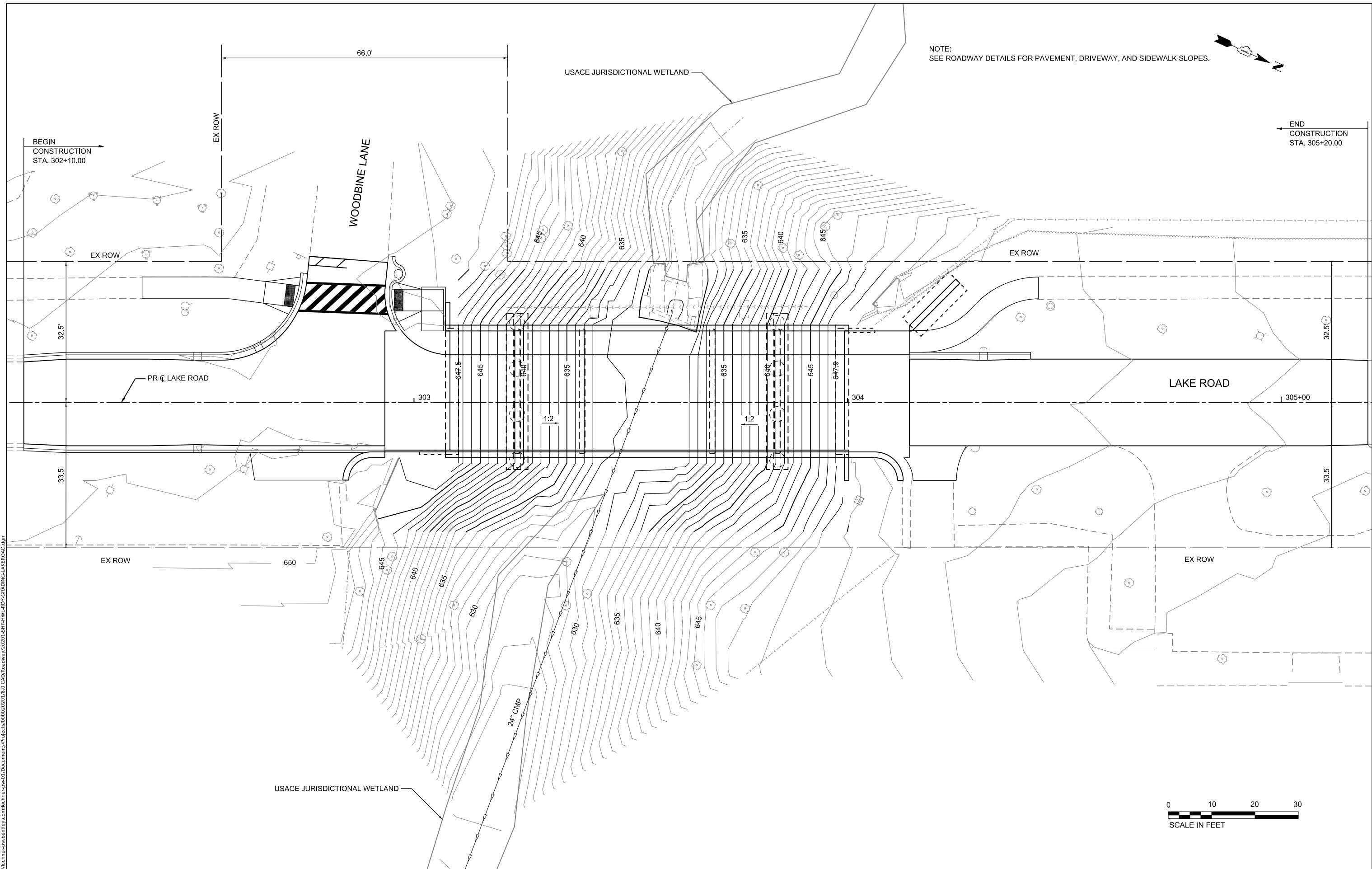
**ROADWAY - PLAN AND PROFILE
 LAKE WOODBINE BRIDGE**

SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. STA. 302+10 TO STA. STA. 305+20

MUN. RTE. 1370	SECTION 12-00094-00-BR	COUNTY LAKE	TOTAL SHEETS 86	SHEET NO. 17
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

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NOTE:
 SEE ROADWAY DETAILS FOR PAVEMENT, DRIVEWAY, AND SIDEWALK SLOPES.



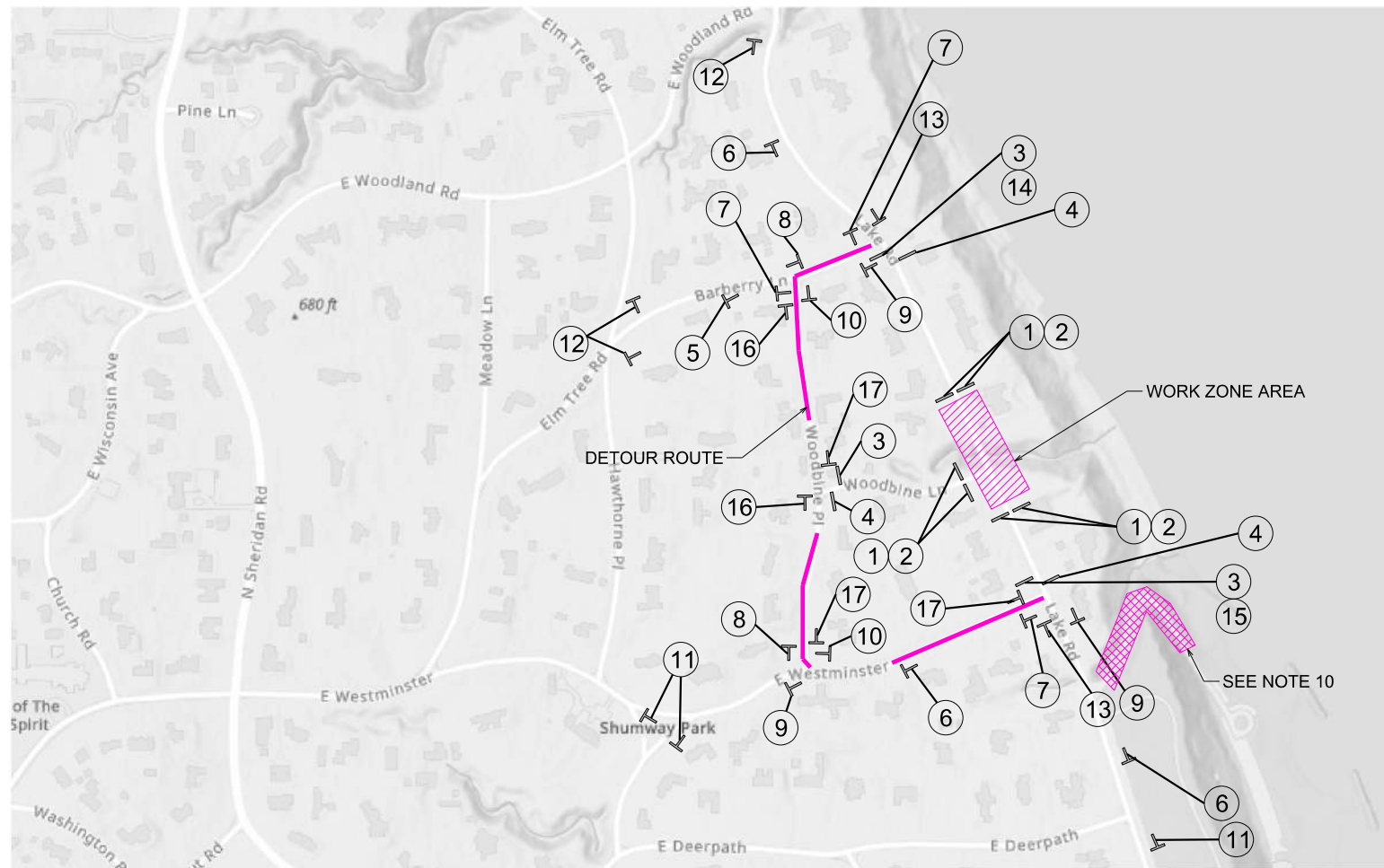
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

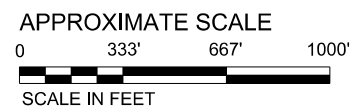
**GRADING PLAN
 LAKE WOODBINE BRIDGE**

SCALE: 1"=10' SHEET 3 OF 3 SHEETS STA. 302+10 TO STA. 305+20

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	18
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

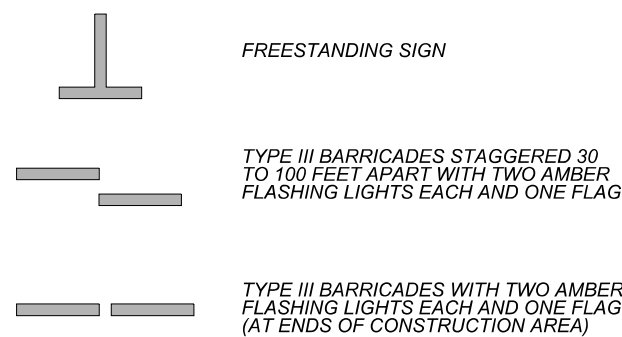


DETOUR PLAN LOCATION MAP



MAINTENANCE OF TRAFFIC NOTES

- TYPE III BARRICADES AND R11-2 SIGNS SHALL BE POSITIONED AS SHOWN IN IDOT HIGHWAY STANDARD 701901-09.
- ALL WARNING SIGNS (W-) SHALL BE POST MOUNTED.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- ALL WARNING SIGNS SHALL HAVE MINIMUM DIMENSIONS OF 48 INCHES BY 48 INCHES AND HAVE BLACK LEGEND ON AN ORANGE HIGH INTENSITY REFLECTORIZED BACKGROUND.
- LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON EACH APPROACH IN ADVANCE OF THE WORK AREA DURING HOURS OF DARKNESS AND INSTALLED ABOVE THE FIRST TWO ADVANCE SIGNS.
- BARRICADES SHALL BE TO THE EDGE OF PAVEMENT, EXCEPT WHEN OTHERWISE DIRECTED BY THE ENGINEER OR SHOWN ON THE DETAILED CONSTRUCTION PLANS.
- ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL PLAN.
- THE LUMP SUM COST FOR "TRAFFIC CONTROL AND PROTECTION" SHALL INCLUDE ALL WORK, EQUIPMENT, AND LABOR NECESSARY TO INSTALL AND MAINTAIN THE TRAFFIC PROTECTION AND DETOUR ROUTE SIGNED ABOVE FOR THE PROJECT DURATION.
- THE CONTRACTOR IS ALLOWED TO CLOSE THE NORTH BEACH ACCESS ROAD UNTIL 5/1/2025 FOR WORKER PARKING AND MATERIAL STORAGE, BUT MUST MAINTAIN 1 LANE FOR FIRE ACCESS.
- ANY ADDITIONAL SIGNAGE SHALL BE PAID FOR AS "TEMPORARY INFORMATION SIGNING (20030850)".
- AT LEAST 30 DAYS PRIOR TO DETOUR INSTALLATION, COORDINATE WITH SHERIDAN ELEMENTARY SCHOOL FOR SCHOOL BUS TRAFFIC. CONTACT MARY KAY HANLON. (847) 234-6299.



BILL OF MATERIAL

PAY ITEM NO.	PAY ITEM	UNIT	QUANTITY
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

DETOUR SIGNAGE LEGEND

<p>① ROAD CLOSED R11-2, 48"X30"</p> <p>② BRIDGE OUT R11-2, 48"X30"</p> <p>③ ROAD CLOSED TO THRU TRAFFIC R11-4, 60"X30"</p> <p>④ BRIDGE OUT LOCAL TRAFFIC ONLY R11-3b, 60"X30"</p> <p>⑤ DETOUR AHEAD W20-2, 48"X48" FLASHING LIGHT</p> <p>⑥ ROAD CLOSED 500 FT W20-3, 48"X48"</p> <p>⑦ SOUTH Lake Road DETOUR M3-3, 24"X12" (BLACK ON ORANGE) D3-1, VARX12" (BLACK ON ORANGE) M4-9R, 30"X24"</p> <p>⑧ SOUTH Lake Road DETOUR M3-3, 24"X12" (BLACK ON ORANGE) D3-1, VARX12" (BLACK ON ORANGE) M4-9L, 30"X24"</p> <p>⑨ NORTH Lake Road DETOUR M3-3, 24"X12" (BLACK ON ORANGE) D3-1, VARX12" (BLACK ON ORANGE) M4-9L, 30"X24"</p>	<p>⑩ NORTH Lake Road DETOUR M3-3, 24"X12" (BLACK ON ORANGE) D3-1, VARX12" (BLACK ON ORANGE) M4-9L, 30"X24"</p> <p>⑪ Lake Road CLOSED NORTH OF E Westminister LOCAL TRAFFIC ONLY PAID FOR AS TEMPORARY INFORMATION SIGNING (20030850)</p> <p>⑫ Lake Road CLOSED SOUTH OF Barberry Lane LOCAL TRAFFIC ONLY PAID FOR AS TEMPORARY INFORMATION SIGNING (20030850)</p> <p>⑬ END DETOUR M4-8a, 24"X18"</p> <p>⑭ DETOUR M4-10, 48"X18"</p> <p>⑮ DETOUR M4-10, 48"X18"</p> <p>⑯ SOUTH Lake Road DETOUR M3-3, 24"X12" (BLACK ON ORANGE) D3-1, VARX12" (BLACK ON ORANGE) M4-9L, 30"X24"</p> <p>⑰ NORTH Lake Road DETOUR M3-3, 24"X12" (BLACK ON ORANGE) D3-1, VARX12" (BLACK ON ORANGE) M4-9L, 30"X24"</p>
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 SHEET: 1 OF 3



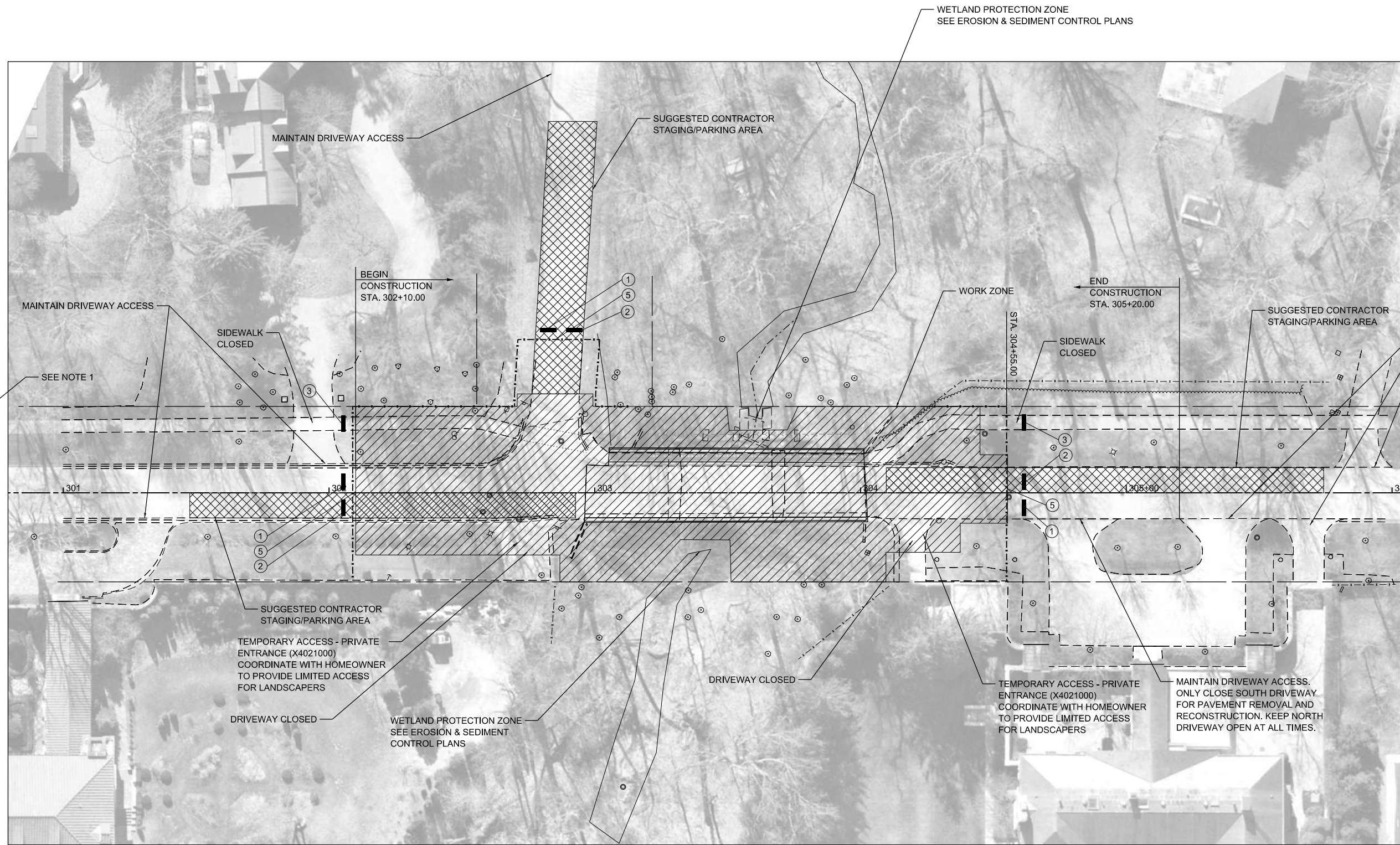
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PLOT DATE	5/24/2024	DATE	6/10/2024	REVISION	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR PLAN
LAKE WOODBINE BRIDGE

SCALE: NTS SHEET 1 OF 3 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	19
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



WETLAND PROTECTION ZONE
SEE EROSION & SEDIMENT CONTROL PLANS

MAINTAIN DRIVEWAY ACCESS

SUGGESTED CONTRACTOR STAGING/PARKING AREA

BEGIN CONSTRUCTION
STA. 302+10.00

WORK ZONE

END CONSTRUCTION
STA. 305+20.00

SUGGESTED CONTRACTOR STAGING/PARKING AREA

MAINTAIN DRIVEWAY ACCESS

MAINTAIN DRIVEWAY ACCESS

SIDEWALK CLOSED

SIDEWALK CLOSED

SEE NOTE 1

SEE NOTE 2

SUGGESTED CONTRACTOR STAGING/PARKING AREA

TEMPORARY ACCESS - PRIVATE ENTRANCE (X4021000)
COORDINATE WITH HOMEOWNER TO PROVIDE LIMITED ACCESS FOR LANDSCAPERS

DRIVEWAY CLOSED

WETLAND PROTECTION ZONE
SEE EROSION & SEDIMENT CONTROL PLANS

TEMPORARY ACCESS - PRIVATE ENTRANCE (X4021000)
COORDINATE WITH HOMEOWNER TO PROVIDE LIMITED ACCESS FOR LANDSCAPERS

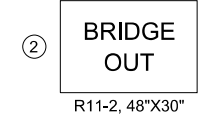
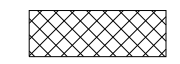
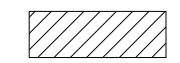
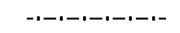
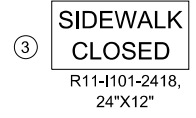
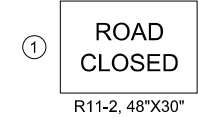
MAINTAIN DRIVEWAY ACCESS. ONLY CLOSE SOUTH DRIVEWAY FOR PAVEMENT REMOVAL AND RECONSTRUCTION. KEEP NORTH DRIVEWAY OPEN AT ALL TIMES.

SUGGESTED STAGING AREA

MAINTENANCE OF TRAFFIC LEGEND

NOTES:

- PLACE SIGN AT INTERSECTION OF WESTMINSTER AND LAKE ROAD (NOT SHOWN ON SHEET).
- PLACE SIGN AT INTERSECTION OF WOODLAND ROAD AND LAKE ROAD (NOT SHOWN ON SHEET).
- THE CONTRACTOR IS ALSO ALLOWED TO CLOSE THE NORTH BEACH ACCESS ROAD UNTIL 5/1/2025 FOR WORKER PARKING AND MATERIAL STORAGE, BUT MUST MAINTAIN 1 LANE FOR FIRE ACCESS.



USER NAME	Personal	DESIGNED	JN	REVISED	-
DRAWN	JN	REVISIONS	-	DATE	-
CHECKED	DS	REVISIONS	-	DATE	-
DATE	5/24/2024	REVISIONS	-	DATE	-

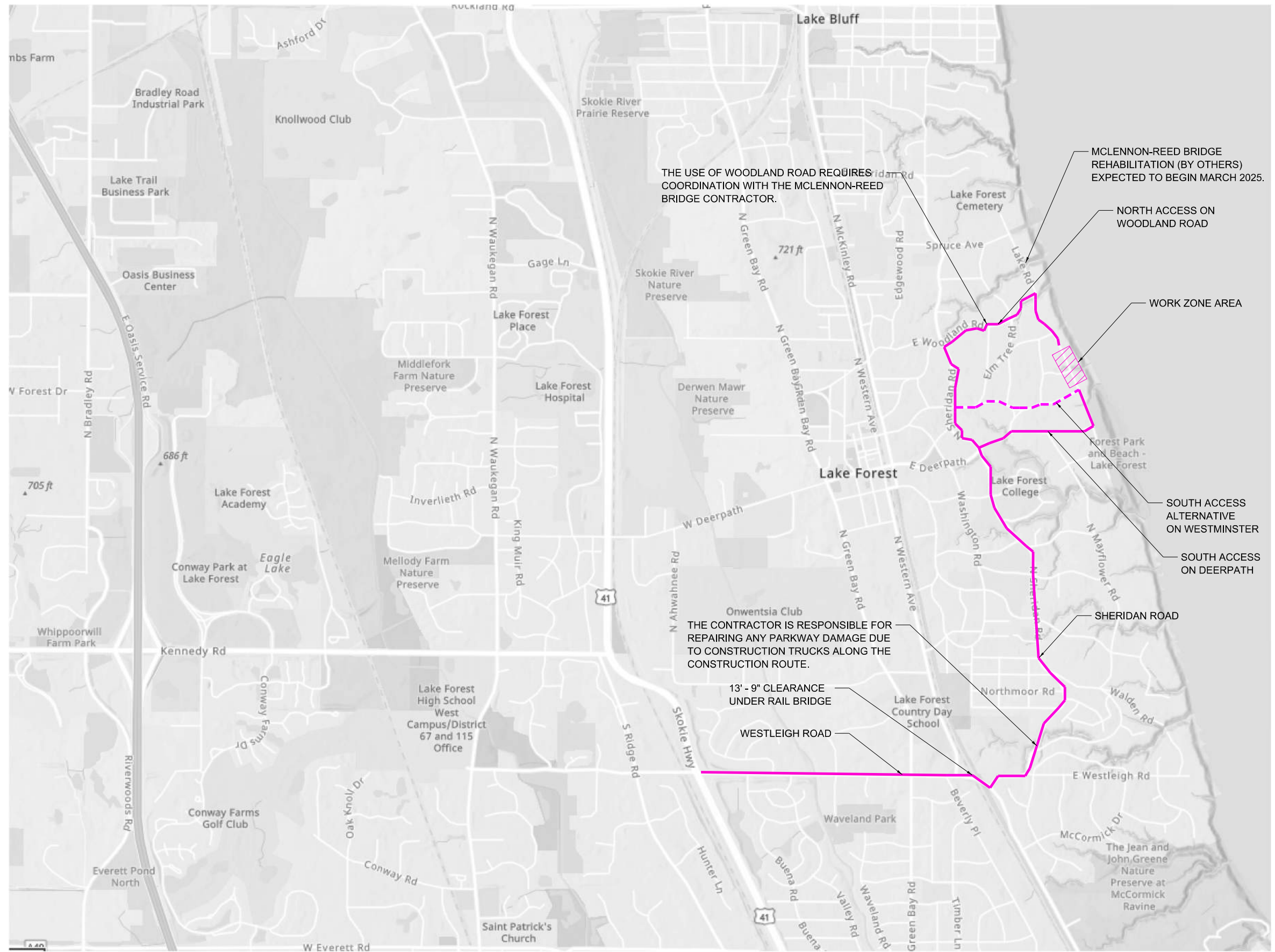
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
LAKE WOODBINE BRIDGE**

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 302+10 TO STA. 305+20

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	20
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

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USER NAME	Personal	DESIGNED	JN	REVISED	-
DRAWN	JN	CHECKED	DS	REVISED	-
PLOT SCALE	-	DATE	6/10/2024	REVISED	-
PLOT DATE	5/24/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION ROUTE
LAKE WOODBINE BRIDGE**

SCALE: NTS SHEET 3 OF 3 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	21
CONTRACT NO. 61K52				
ILLINOIS	FED. AID PROJECT			

EROSION AND SEDIMENT CONTROL NOTES

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION, THE CONTRACT SPECIFICATIONS, SECTION 280 OF THE STANDARD SPECIFICATIONS, LAKE COUNTY STORMWATER MANAGEMENT COMMISSION STANDARDS AND AS DIRECTED BY THE ENGINEER.
2. EROSION CONTROL MEASURES AS INDICATED IN THE PLAN OR AS DIRECTED BY THE ENGINEER MUST BE INSTALLED ON THE PROJECT SITE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY WHICH WILL CREATE POTENTIALLY ERODIBLE CONDITIONS.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
5. TEMPORARY SEED ALL BARE AND ERODIBLE AREAS EVERY SEVEN DAYS AS DIRECTED BY THE ENGINEER. TEMPORARY MULCH ALL SEEDED AREAS ACCORDING TO ARTICLE 251.03(B) OR ARTICLE 251.03(C). EROSION CONTROL BLANKET CAN BE USED INSTEAD OF MULCH ACCORDING ARTICLE 251.04.
6. INLET FILTERS WILL BE INSTALLED IN ALL CATCH BASINS, INLETS AND OPEN LID MANHOLES AS DIRECTED BY THE ENGINEER. THE FILTERS SHALL BE MAINTAINED IN THE ENTIRE DURATION OF THE PROJECT.
7. A STABILIZED MAT OF CRUSED 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 ENGINEER, 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.
8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
9. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR THEIR BUFFERS. THE STOCKPILE LOCATIONS SHALL BE DETERMINED AT THE TIME OF THE PRECONSTRUCTION MEETING AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE CITY OF LAKE FOREST.
10. SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
12. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
15. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
16. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS WILL BE CLEANED WHEN THEY ARE 50% FILLED, STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. PERIMETER BARRIER FENCE SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES ONE-THIRD OF THE BARRIER HEIGHT. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
17. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S), WHO MAY PERFORM WORK ON THIS SITE/PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
18. 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.

19. TEMPORARY DIVERSION SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
20. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES APPROVED BY THE ENGINEER.
21. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGE SHALL BE Routed THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENGINEER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENGINEER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES. DEWATERING MAY BE REQUIRED DURING THE INSTALLATION OF THE BRIDGE DRILLED SHAFTS.
22. 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 ENGINEER.

CONSTRUCTION SEQUENCE NOTES

1. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
 - A. SELECTIVE VEGETATION REMOVAL FOR PERIMETER EROSION BARRIER INSTALLATION
 - B. PERIMETER EROSION BARRIER INSTALLATION
 - C. CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
 - D. STABILIZED CONSTRUCTION ENTRANCE
 2. TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB)
 3. STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
 4. TEMPORARILY STABILIZE TOPSOIL STOCKPILES (SEED AND SILT FENCE AROUND TOE OF SLOPE)
 5. INSTALL STORM SEWER AND ASSOCIATED INLET & OUTLET PROTECTION
 6. TEMPORARILY STABILIZE ALL DISTURBED AREAS THAT HAVE REACHED TEMPORARY GRADE
 7. INSTALL ROADWAY & BRIDGE
 8. PERMANENTLY STABILIZE DISTURBED AREAS
 9. REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION
- * SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY 1/2 INCH OR GREATER RAINFALL EVENT

EROSION AND SEDIMENT CONTROL WETLAND AND WATERS OF THE U.S. NOTES

1. WETLAND AREAS OUTSIDE OF THE WORK ZONE ARE TO BE AVOIDED. IF THE CONTRACTOR SHOULD ENCROACH UPON ANY WETLAND AREA THAT IS NOT WITHIN THE CONSTRUCTION LIMITS AND/OR PERMITTED FOR IMPACT THROUGH THE USACE, THE CONTRACTOR IS SUBJECT TO FINES. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY WETLAND IMPACTS OUTSIDE OF THE WORK ZONE. IMPACTED AREAS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR IN COORDINATION WITH AND TO THE SATISFACTION OF THE USACE.
2. ALL WETLANDS, WATERS OF THE U.S. AND OPEN WATER DETENTION FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL BY RESOURCE AND REGULATORY AGENCIES. THOSE AGENCIES INCLUDE BUT ARE NOT LIMITED TO THE USACE, THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES, THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, AND THE COUNTY SOIL AND WATER CONSERVATION DISTRICT.
3. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED, MATERIALS STORED, OR VEHICLES DRIVEN OR PARKED WITHIN THE "WETLAND PROTECTION ZONE". REMOVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
4. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECT WETLAND NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. ATTACHING THE SIGN TO THE TEMPORARY FENCE STAKES WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.

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USER NAME	Personal	DESIGNED	- GG	REVISED	-
		DRAWN	- GG	REVISED	-
PLOT SCALE	= 99.996' / in.	CHECKED	- AM	REVISED	-
PLOT DATE	= 5/20/2024	DATE	- 6/10/2024	REVISED	-





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

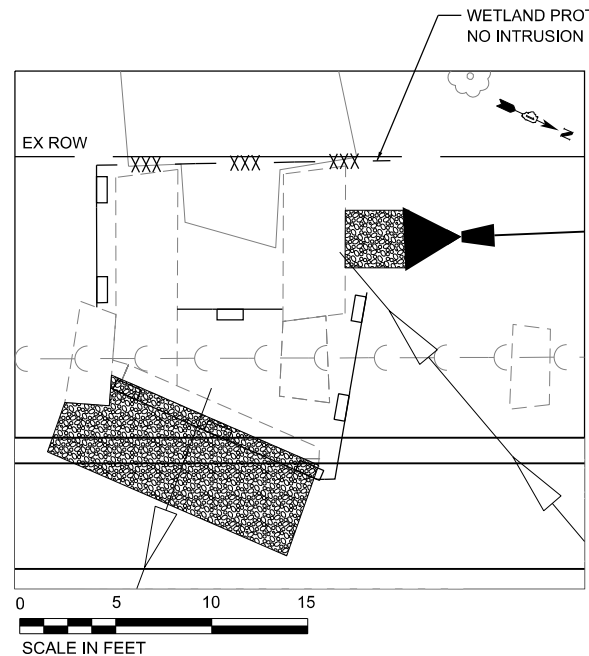
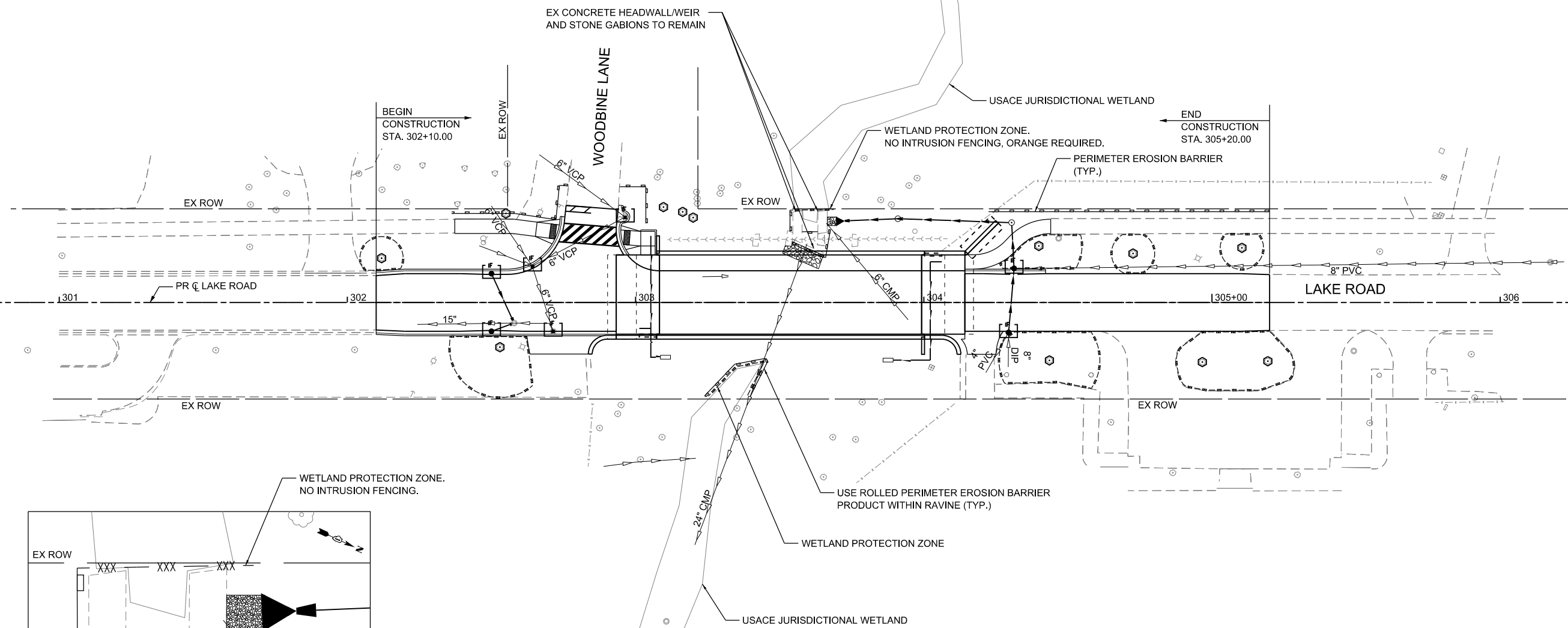
**EROSION & SEDIMENT CONTROL GENERAL NOTES
LAKE WOODBINE BRIDGE**

SCALE: N/A SHEET 1 OF 7 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	22
CONTRACT NO. 61K52				
		ILLINOIS FED. AID PROJECT		

EROSION & SEDIMENT CONTROL LEGEND

	PERIMETER EROSION BARRIER (28000400)
	TEMPORARY FENCE (20101000)
	INLET FILTER (28000510)
	TREE TRUNK PROTECTION (20101100)



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 CHICAGO, IL 60606 / 312-372-3011 (P)

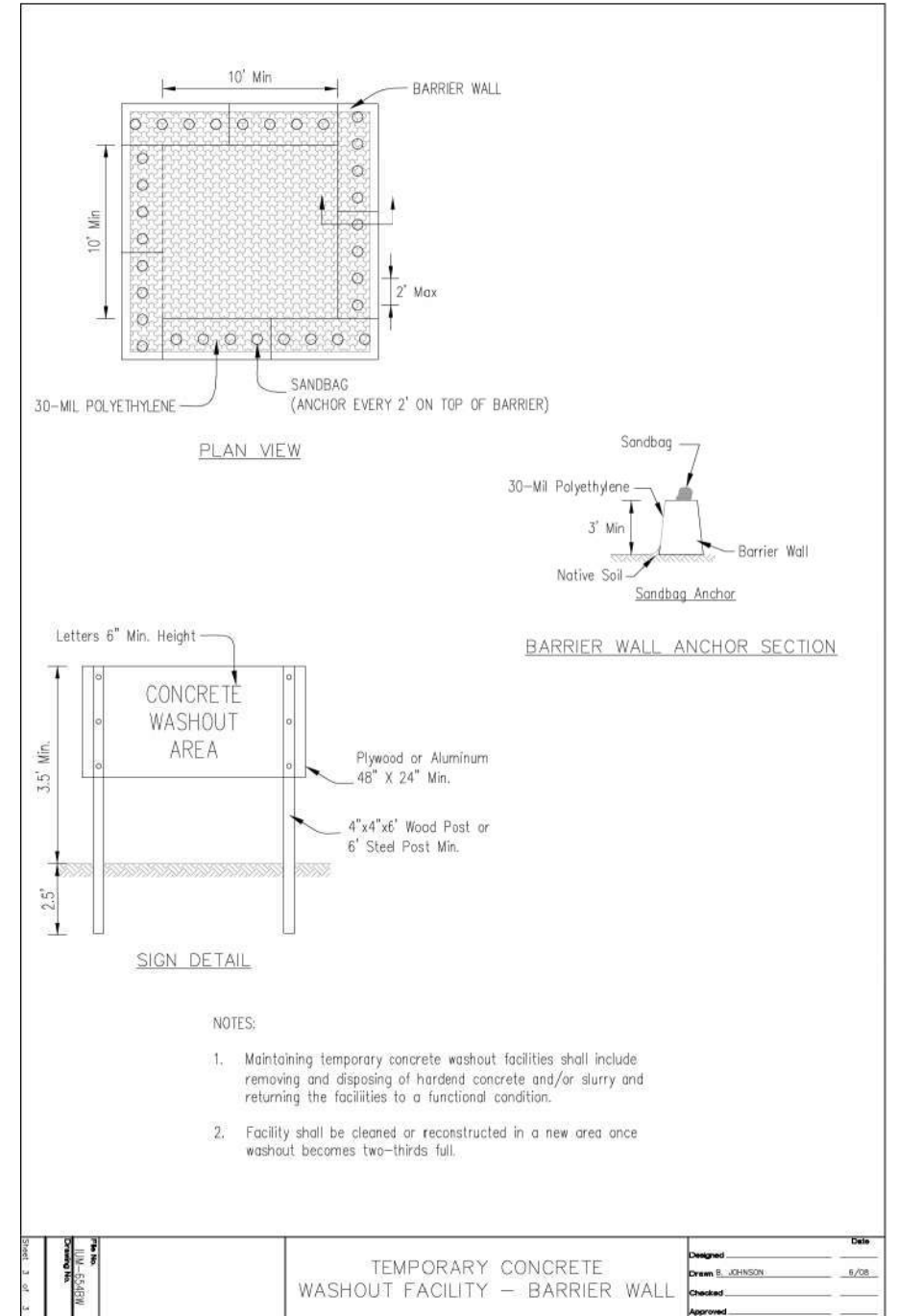
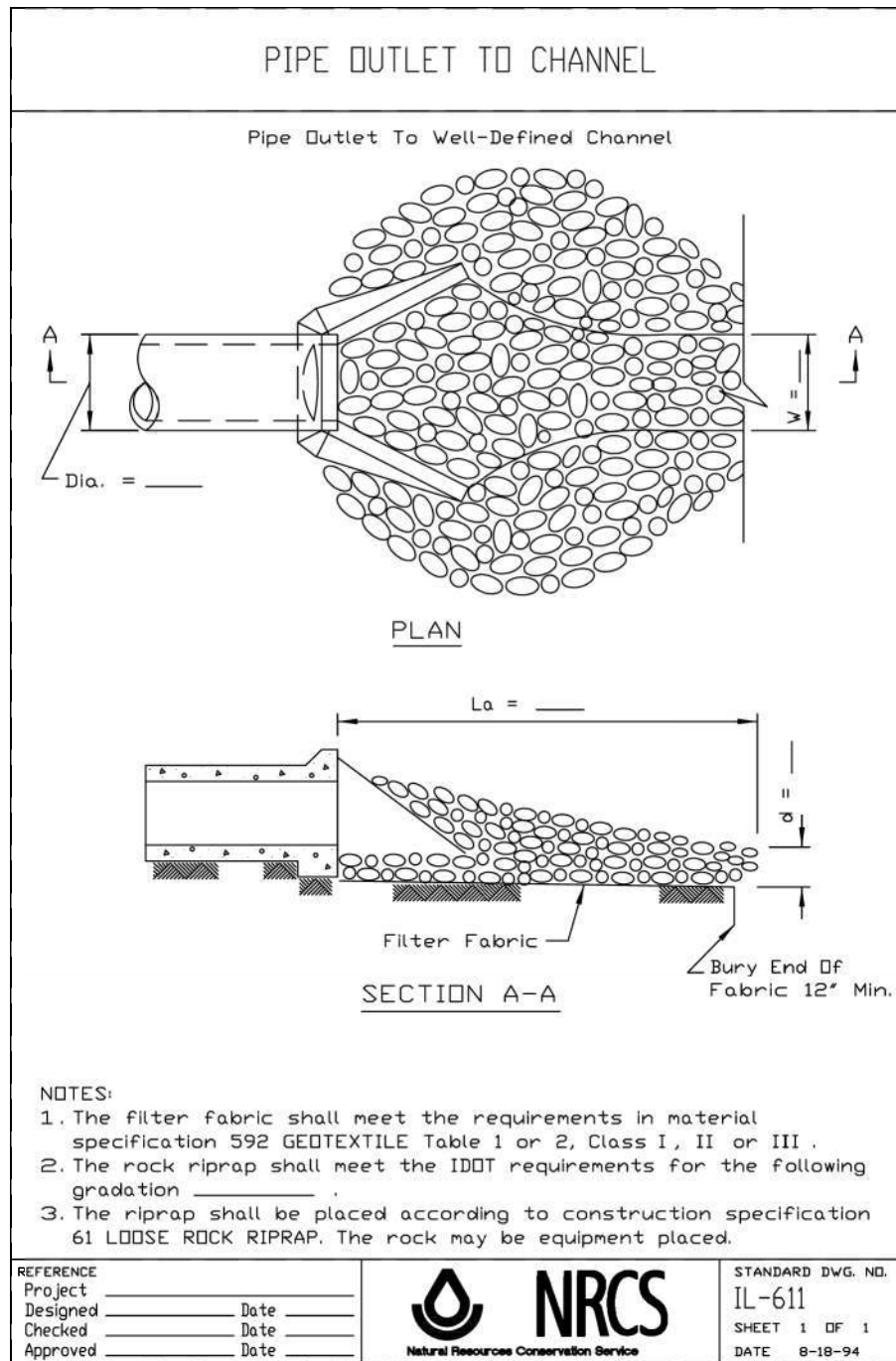
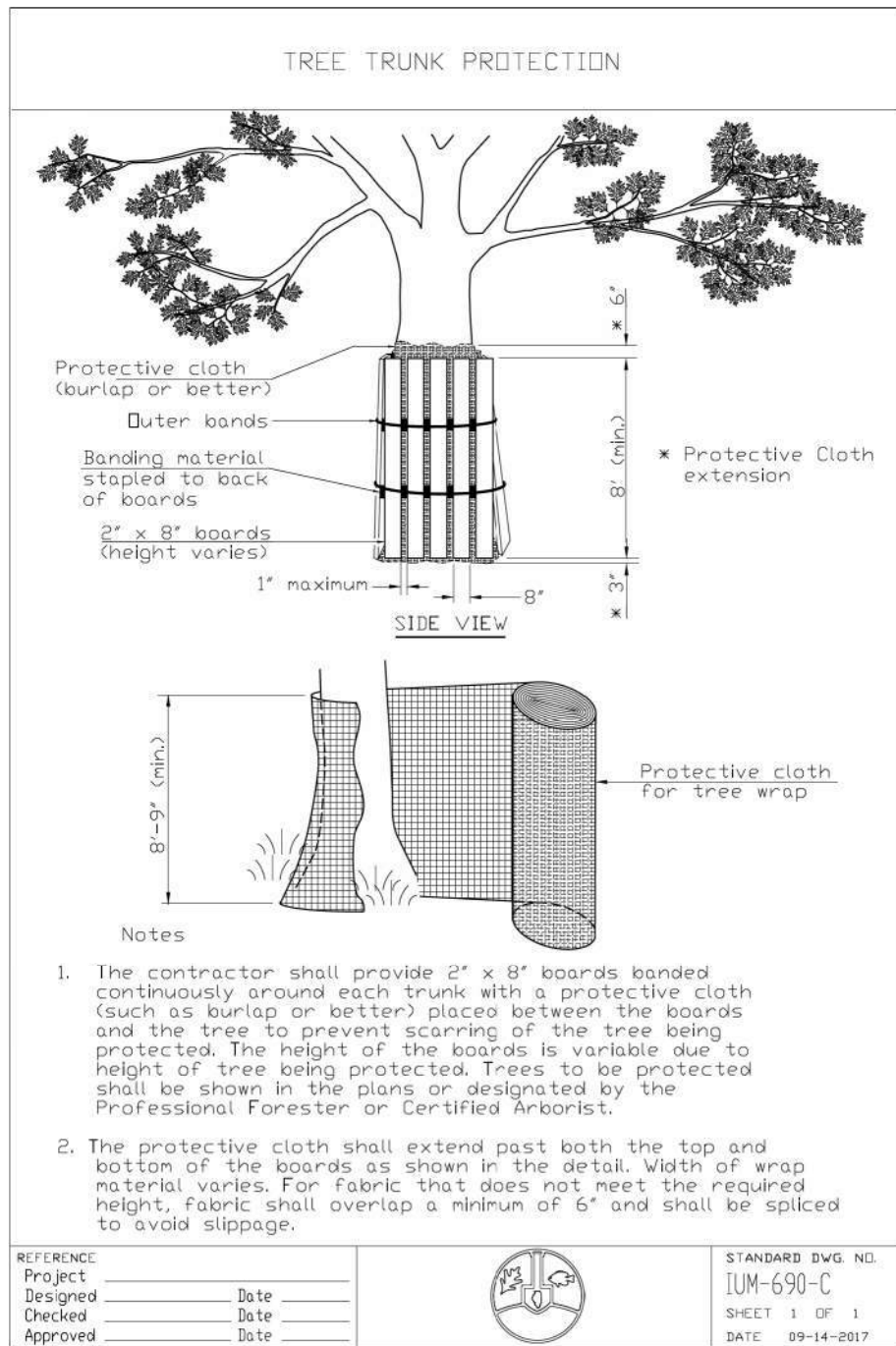


USER NAME	Personal	DESIGNED	GG	REVISED	-
DRAWN	GG	CHECKED	AM	REVISED	-
PLOT SCALE	= 39.999' / in.	DATE	6/10/2024	REVISED	-
PLOT DATE	5/20/2024				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION & SEDIMENT CONTROL PLAN
LAKE WOODBINE BRIDGE
 SCALE: 1"=20' SHEET 2 OF 7 SHEETS STA. 302+10 TO STA. 305+20

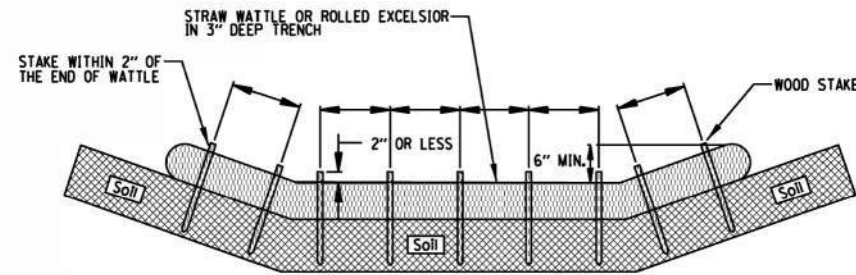
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	23
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



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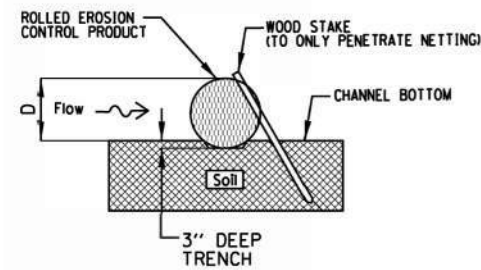
ROLLED EROSION CONTROL PRODUCTS

STAKING PATTERN GUIDE



- NOTES:
1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
 2. 4' SPACING FOR WATTLES.
 3. 2' SPACING FOR ROLLED EXCELSIOR.
 4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

STAKE DETAIL



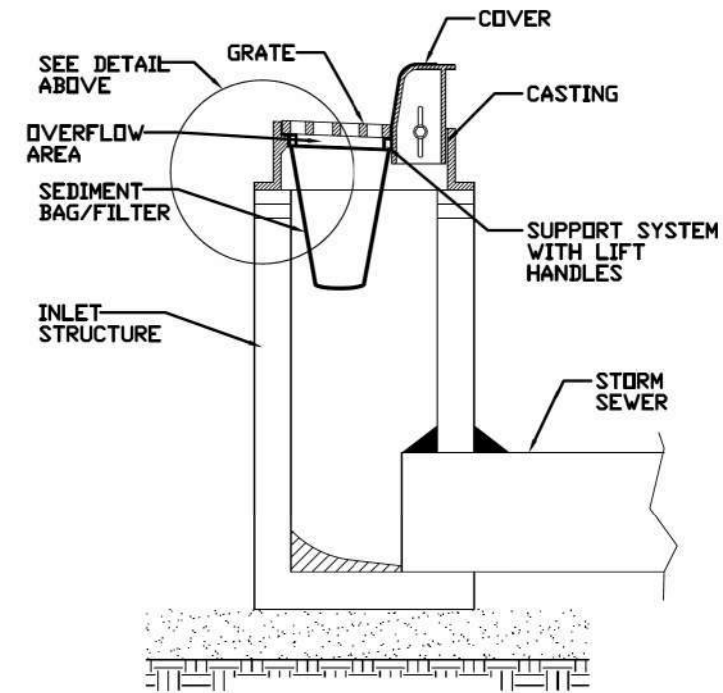
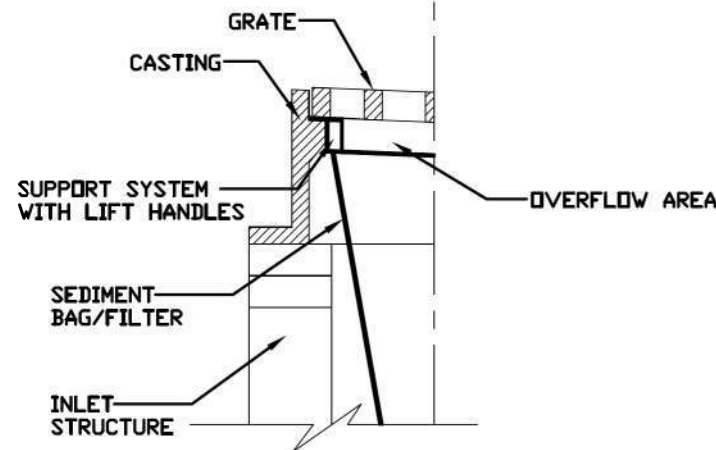
- NOTES:
1. DRAWINGS ARE NOT TO SCALE.
 2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
 3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
 4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
 5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.

REFERENCE Project	_____	DATE	_____
Designed	_____	Date	_____
Checked	_____	Date	_____
Approved	_____	Date	_____



STANDARD DWG. NO.	IUM-514
SHEET 1 OF 1	
DATE	08-2-2019

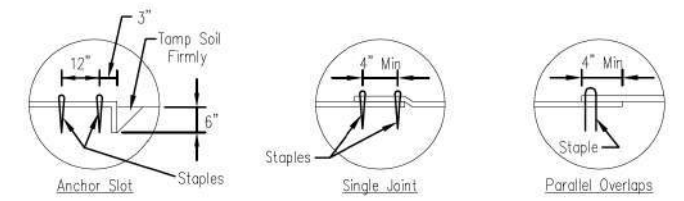
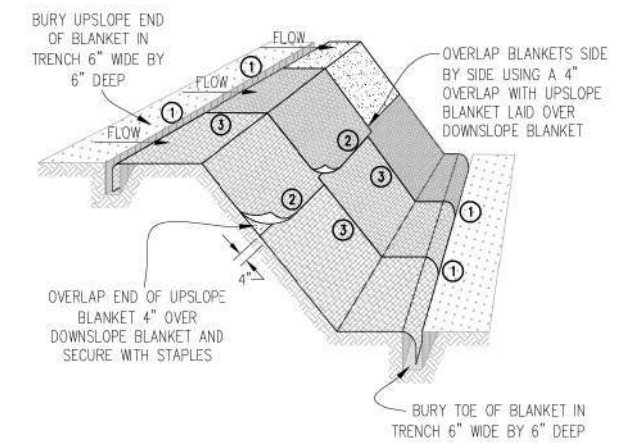
INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE Project	_____	DATE	_____
Designed	_____	Date	_____
Checked	_____	Date	_____
Approved	_____	Date	_____



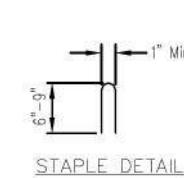
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SHEET 1 OF 1	
DATE	01-11-11



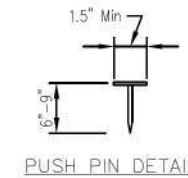
DETAIL 1

DETAIL 2

DETAIL 3



STAPLE DETAIL



PUSH PIN DETAIL

NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

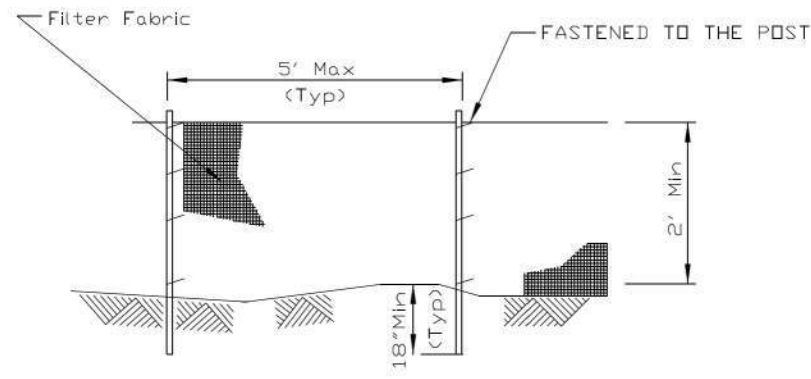
EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed	_____	Date	_____
Drawn	B. JOHNSON	Date	11/08
Checked	_____	Date	_____
Approved	_____	Date	_____

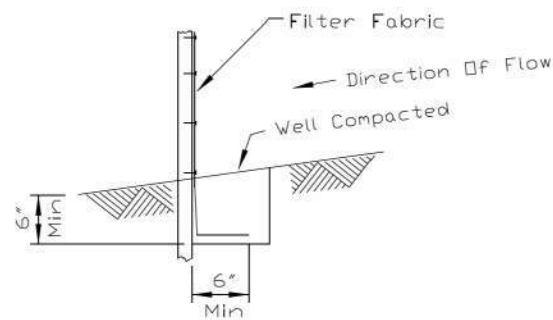
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		DATE	6/10/2024	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	25
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

SILT FENCE PLAN



ELEVATION



FABRIC ANCHOR DETAIL

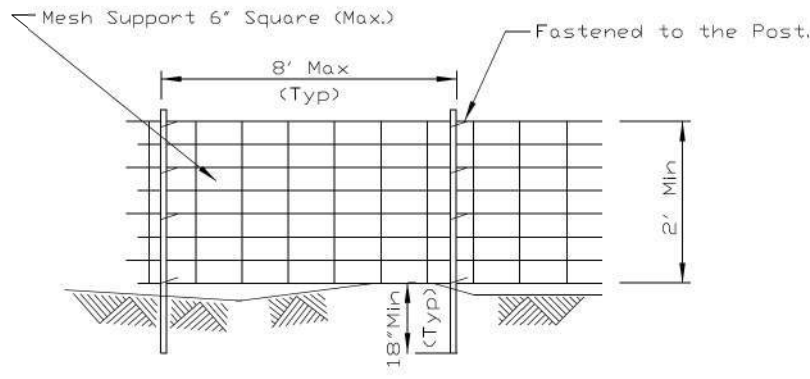
NOTES:
 1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
 3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.

REFERENCE	Project _____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

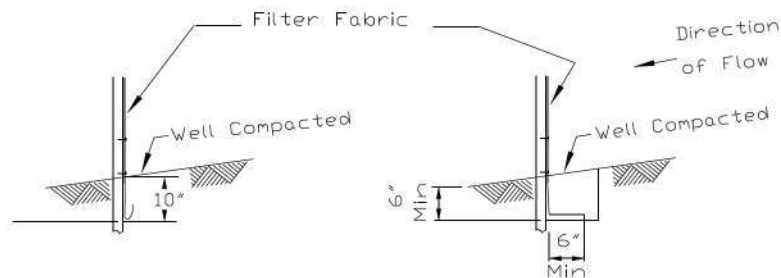


STANDARD DWG. NO.
IUM-620A
 SHEET 1 OF 2
 DATE 04-15-2021

SILT FENCE WITH WIRE SUPPORT PLAN



ELEVATION



FABRIC ANCHOR DETAIL

STATIC SLICE INSTALLATION TRENCH INSTALLATION

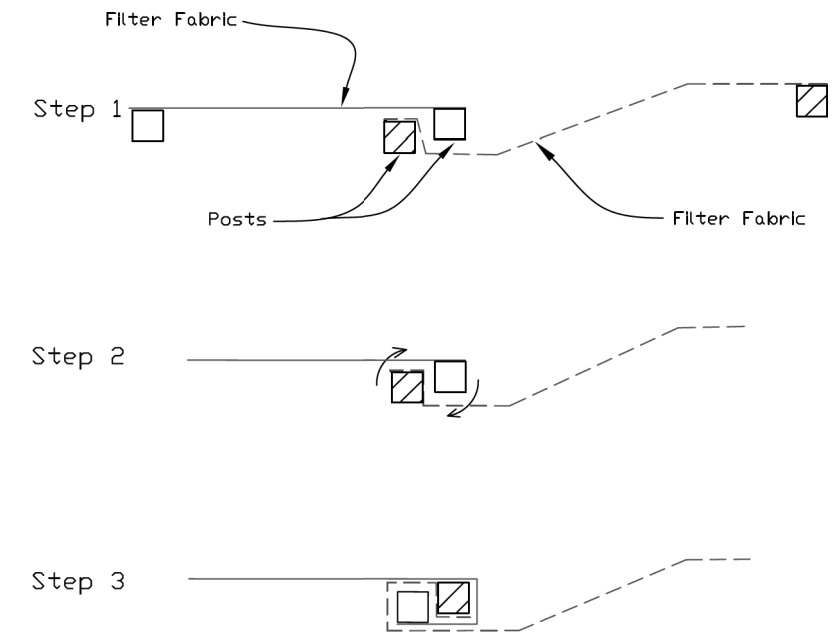
NOTES:
 1. Silt Fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization. Silt fence shall be placed on the flattest area available.
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
 3. Fence posts shall be either standard steel post or wood post 2" X 2" nominal.
 4. Wire mesh may be omitted if post spacing is 5' on center or less.

REFERENCE	Project _____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.
IUM-620A(W)
 SHEET 1 OF 2
 DATE 4-15-2021

SILT FENCE - SPLICING TWO FENCES



ATTACHING TWO SILT FENCES

- Place the end post of the second fence inside the end post of the first fence.
- Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
- Drive both posts a minimum of 18 inches into the ground and bury the flap.
- Compact backfill (particularly at splices) completely to prevent stormwater pling.

REFERENCE	Project _____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

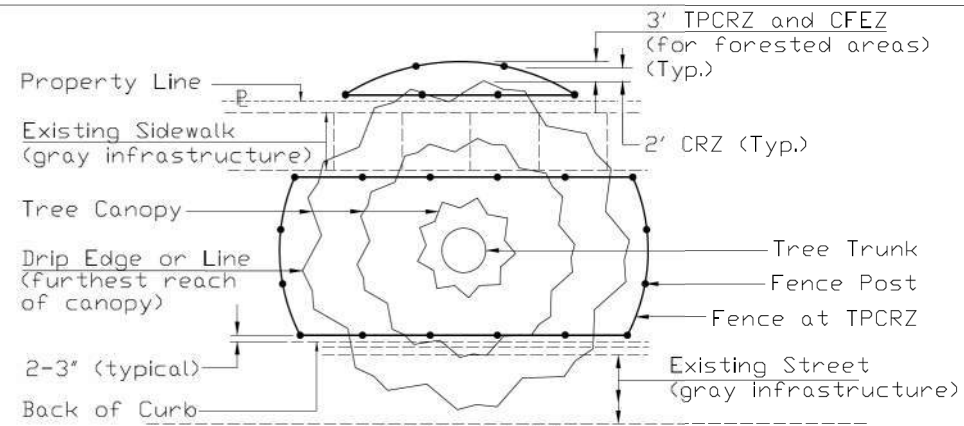


STANDARD DWG. NO.
IUM-620B(W)
 SHEET 1 OF 1
 DATE 3-16-2012

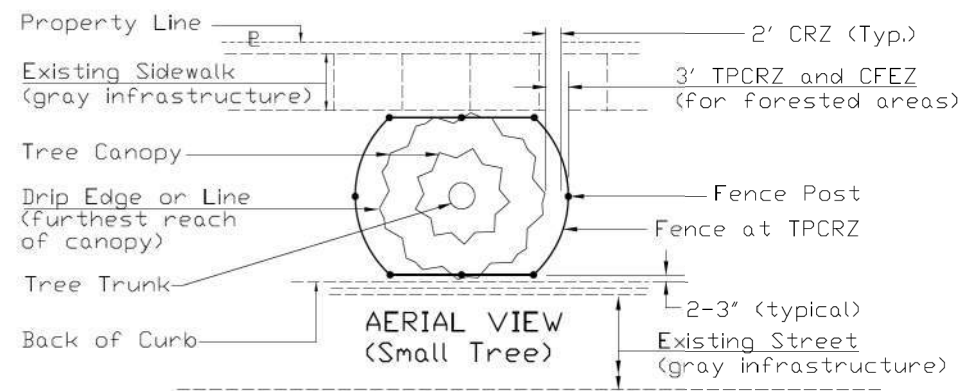
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DRAWN	- GG
CHECKED	- AM
PLOT SCALE	99.996" / in.
PLOT DATE	5/20/2024
DESIGNED	- GG
REVISION	-
DATE	6/10/2024
REVISION	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	26
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

TREE PROTECTION - FENCING
(Highly Urbanized Areas)



AERIAL VIEW
(Large Tree)



AERIAL VIEW
(Small Tree)

Notes:

1. Call J.U.L.I.E. (800-892-0123) for the location of existing utilities 48 hours prior to commencement of work.
2. The CRZ is located 2' from the farthest outreaching branch (drip edge) or the distance as determined by the ISA trunk diameter method or whichever is greater.
3. On sides of the tree not constricted by gray infrastructure, the fence shall be located 1 foot from the Critical Root Zone (CRZ) of the protected tree, thus creating the Tree Protection Critical Root Zone (TPCRZ). The Critical Forest Edge Zone (CFEZ), for forested areas, shall also be located at the TPCRZ.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IUM-690-B
SHEET	1 OF 2
DATE	09-14-2017

TREE PROTECTION - FENCING
(Highly Urbanized Areas)

Notes: (cont.)

4. On sides of the tree where there is gray infrastructure conflict the fence shall be 3 to 4 inches from the structure. Where the structure is a sidewalk and the CRZ goes beyond the sidewalk to the adjoining greenspace, the Tree Protection Fencing shall continue to the CRZ without impeding the flow of the traffic of the sidewalk.
5. Fence Posts shall be either 6' steel posts @ 1.33lbs./Ft. or 2" x 2" nominal wood posts.
6. A chain link fence with Construction Specification Chain Link Fence IUM 91 or better (as approved by the local Forester per local ordinances singularly or in tandem with the project Engineer) shall be used. Fencing shall be a minimum height of 4'. Metal posts shall be placed 6' on center (OC) and fencing is securely anchored to the ground.
7. Outside the TPCRZ, erosion and sediment control measures shall be installed to prevent sediment reaching the TPCRZ. These measures shall extend out from the fence 10' and shall be continuous around the perimeter of the fence. These measures include, but are not limited to vegetative filter strip, rolled excelsior blankets and woodchip mulch with a 3" to 5" depth. Other methods may be used if approved by the Professional Forester, Certified Arborist or Horticulturalist. Installation shall cause no disturbance to soils.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IUM-690-B
SHEET	2 OF 2
DATE	09-14-2017

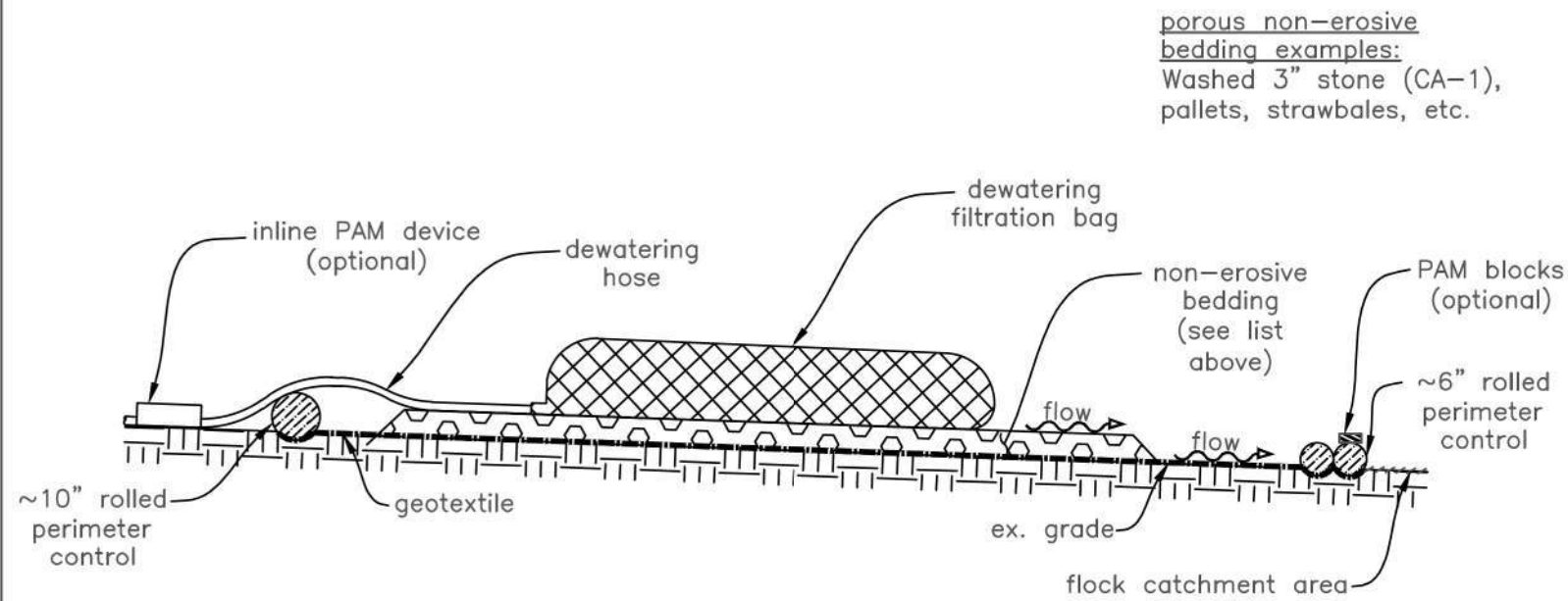
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PLOT DATE	= 5/20/2024	CHECKED	- AM	REVISED	-
		DATE	- 6/10/2024	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	27
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

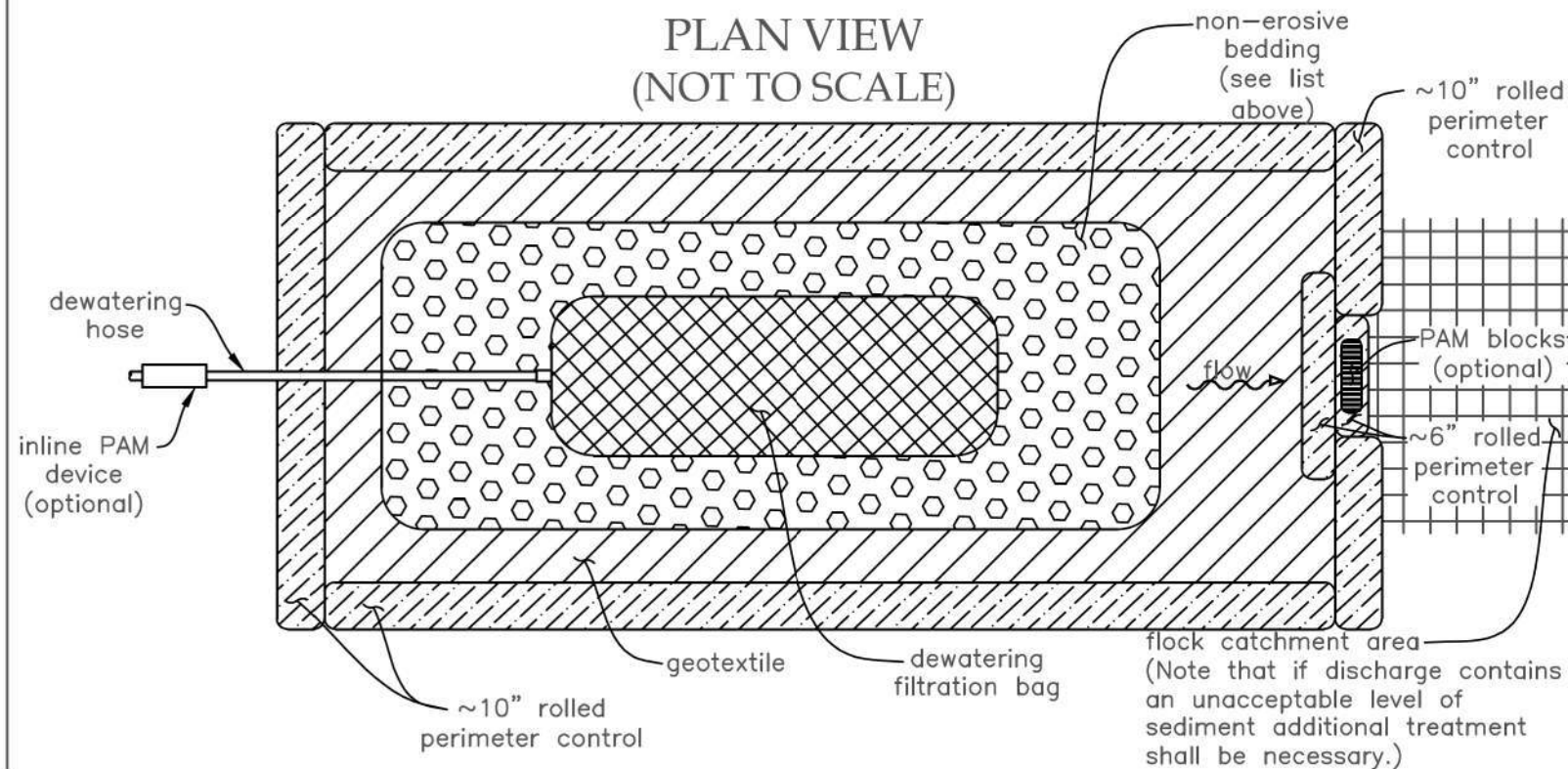
SITE DEWATERING DETAIL

CROSS SECTION VIEW (NOT TO SCALE)



porous non-erosive bedding examples:
Washed 3" stone (CA-1),
pallets, strawbales, etc.

PLAN VIEW (NOT TO SCALE)



NOTES:

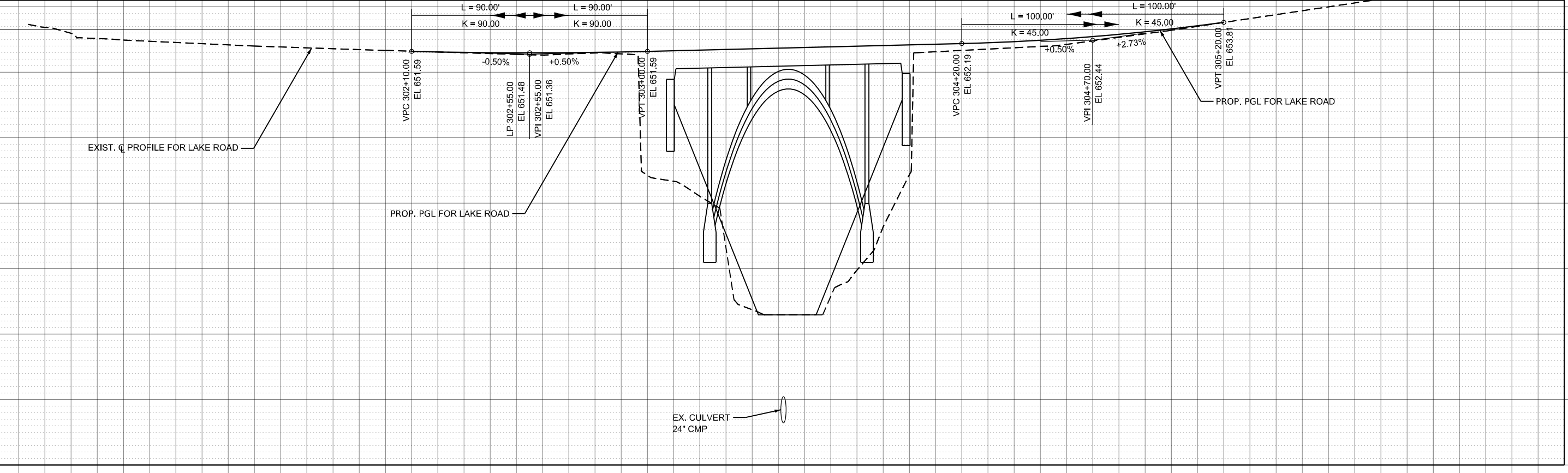
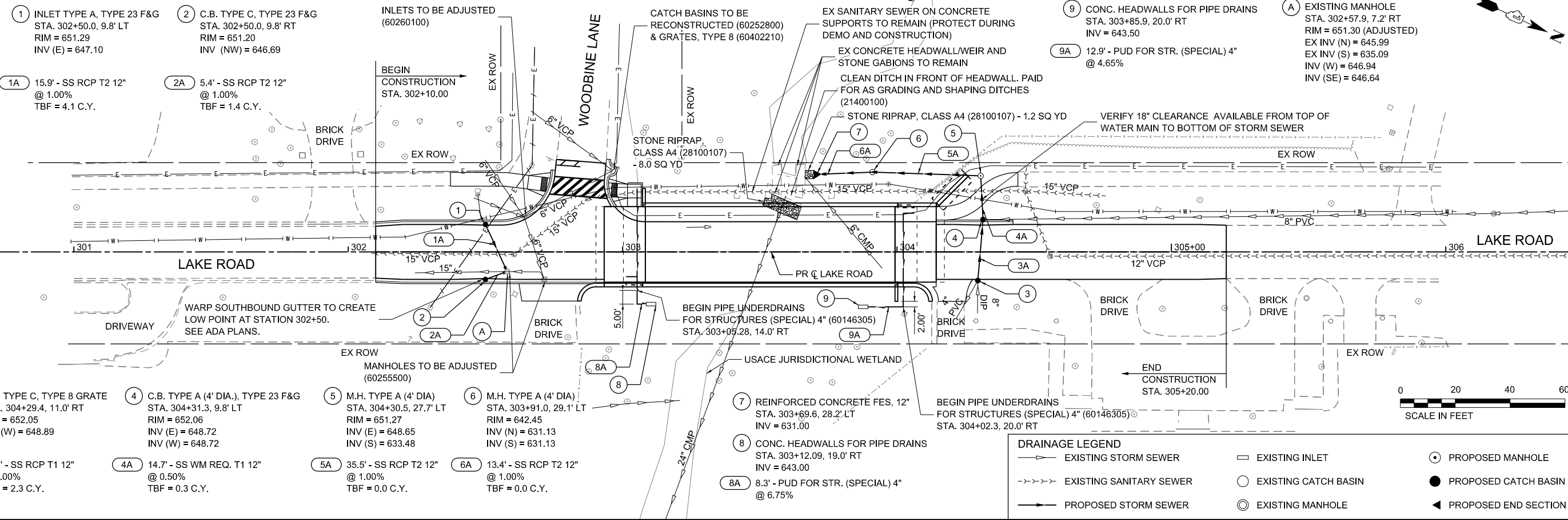
- This detail provides general guidance on dewatering setup options. Site and project specific details, including manufacturer recommendations should be considered. Final dewatering design requires approval by the Enforcement Officer. The Enforcement Officer, or approved representative, must be present at the commencement of dewatering activities.
- Rolled perimeter control must be entrenched and staked in unless the product is self-bedding. [compost sock, fiber rolls, or similar]
- Dewatering bag must be monitored frequently during use, this includes checking on flow and fill capacity.
- Sediment shall be removed from the catchment area and the system restored to its original design when sediment has accumulated to cover half of the catchment area.
- Adjoining properties and discharge locations shall be protected from erosion and sedimentation.
- Ensure proper overlap where rolled perimeter control ends meet.
- Elevate bag on porous non-erosive bedding to properly drain (maximize surface area).

REFERENCES:

- Dewatering:
<https://illinoisurbanmanual.org/wp-content/uploads/2019/01/813-Dewatering-9-25-2018.pdf>
- PAM (polyacrylamide):
<https://illinoisurbanmanual.org/wp-content/uploads/2018/08/PAM-for-Turbidity-Reduction-and-Sediment-Control-1.pdf>
- SESC Notes:
<https://www.lakecountyil.gov/DocumentCenter/View/3415/SESC-Construction-Notes-2013-PDF>

Date: 10/2022

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653.65	652.46	651.99	651.66	651.59	651.36	651.39	642.12	651.59	631.03	651.84	642.17	652.09	651.97	652.44	653.21	653.30	653.81	654.68	656.09
301+00			302+00				303+00				304+00				305+00				306+00

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 DATE: 5/16/2024



USER NAME = Personal	DESIGNED - GG	REVISED -
DRAWN - GG	REVISED -	
CHECKED - AM	REVISED -	
DATE - 6/10/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE & UTILITY - PLAN AND PROFILE
LAKE WOODBINE BRIDGE

MUN. RTE. 1370	SECTION 12-00094-00-BR	COUNTY LAKE	TOTAL SHEETS 86	SHEET NO. 29
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 302+10 TO STA. 305+20

THERMOPLASTIC PAVEMENT MARKING - LINE 6" (78000400) AND THERMOPLASTIC PAVEMENT MARKING - LINE 12" (78000600) SEE LAKE FOREST STANDARD FOR TYPICAL CROSS WALK

THERMOPLASTIC PAVEMENT MARKING - LINE 24" (78000650)

WOODBINE LANE

MATCH EXISTING

RAISED REFLECTIVE PAVEMENT MARKER (BLUE) (78100100) STA. 302+79.40 OFFSET 19.5' LT SEE LAKE FOREST STANDARD 2.16

DETECTABLE WARNINGS (42400800)

DEPRESSED CURB & GUTTER

RAISED REFLECTIVE PAVEMENT MARKER (BLUE) (78100100) STA. 302+47 OFFSET 5.0' LT SEE LAKE FOREST STANDARD 2.16

L.P. EL. 651.10 (AT EX. INLET TO REMAIN)

DEPRESSED CURB & GUTTER

APPROACH SLAB EXPANSION JOINT

LAKE ROAD

APPROACH SLAB FOOTING

EL. 651.31

EL. 651.47

EX. MANHOLE WITH OPEN LID TO REMAIN ELEV. 651.30

DEPRESSED CURB & GUTTER

MATCH EXISTING

EL. 651.63 STA. 303+08.28

EL. 651.59 STA. 303+00.78



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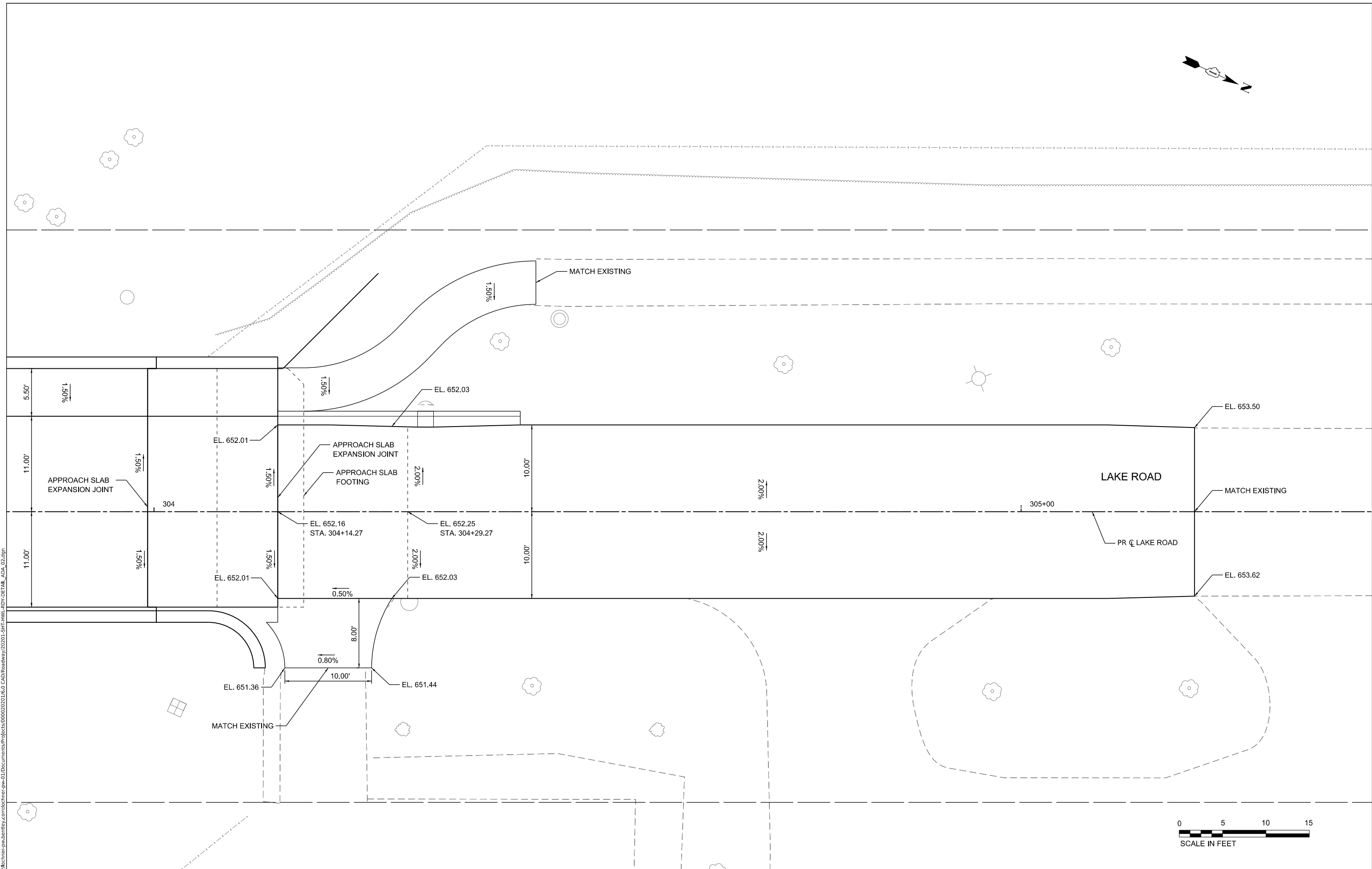
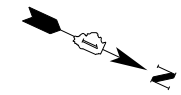
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DRAWN	- JN	REVISIONS	-	REVISIONS	-
CHECKED	- DS	REVISIONS	-	REVISIONS	-
DATE	- 5/24/2024	DATE	- 6/10/2024	REVISIONS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS
LAKE ROAD AND WOODBINE LANE - ADA DETAIL

SCALE: 1"=5' SHEET 1 OF 2 SHEETS STA. 302+13 TO STA. 303+70

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	30
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



USER NAME	Personal	DESIGNED	JN	REVISED	-
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PLOT DATE	5/24/2024	DATE	6/10/2024	REVISIONS	-





STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS
LAKE ROAD

SCALE: 1"=5' SHEET 2 OF 2 SHEETS STA. 303+83 TO STA. 305+20

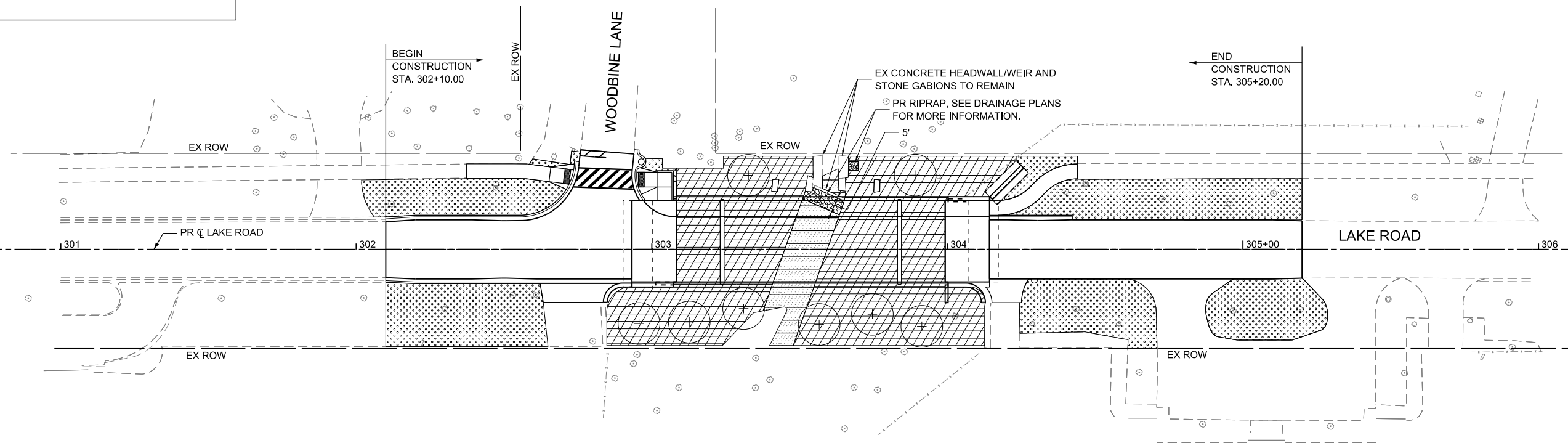
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1370	12-00094-00-BR	LAKE	86	31
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

LANDSCAPING LEGEND

-  PROPOSED TREE - FINAL SPECIES AND LOCATION TO BE DETERMINED BY CITY FORESTER
-  SODDING, SALT TOLERANT (25200110)
-  SEEDING, CLASS 4 (MODIFIED) (X2501800) WITH EROSION CONTROL BLANKET (SPECIAL) (X2511630)
-  SEEDING, CLASS 4 (MODIFIED) (X2501800) WITH TURF REINFORCEMENT MAT (25100900)

NOTES:

1. TURF REINFORCEMENT MAT TO BE USED ON SLOPES STEEPER THAN 3H:1V. EROSION CONTROL BLANKET (SPECIAL) MAY BE SUBSTITUTED AT THE DIRECTION OF THE ENGINEER.
2. 50 SQ YD OF SODDING, SALT TOLERANT (25200110) PROVIDED FOR UNFORSEEN RESTORATION.



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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



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PLOT SCALE	= 39.999" / in.	DATE	- 6/10/2024	REVISED	-
PLOT DATE	= 5/24/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
LAKE WOODBINE BRIDGE**

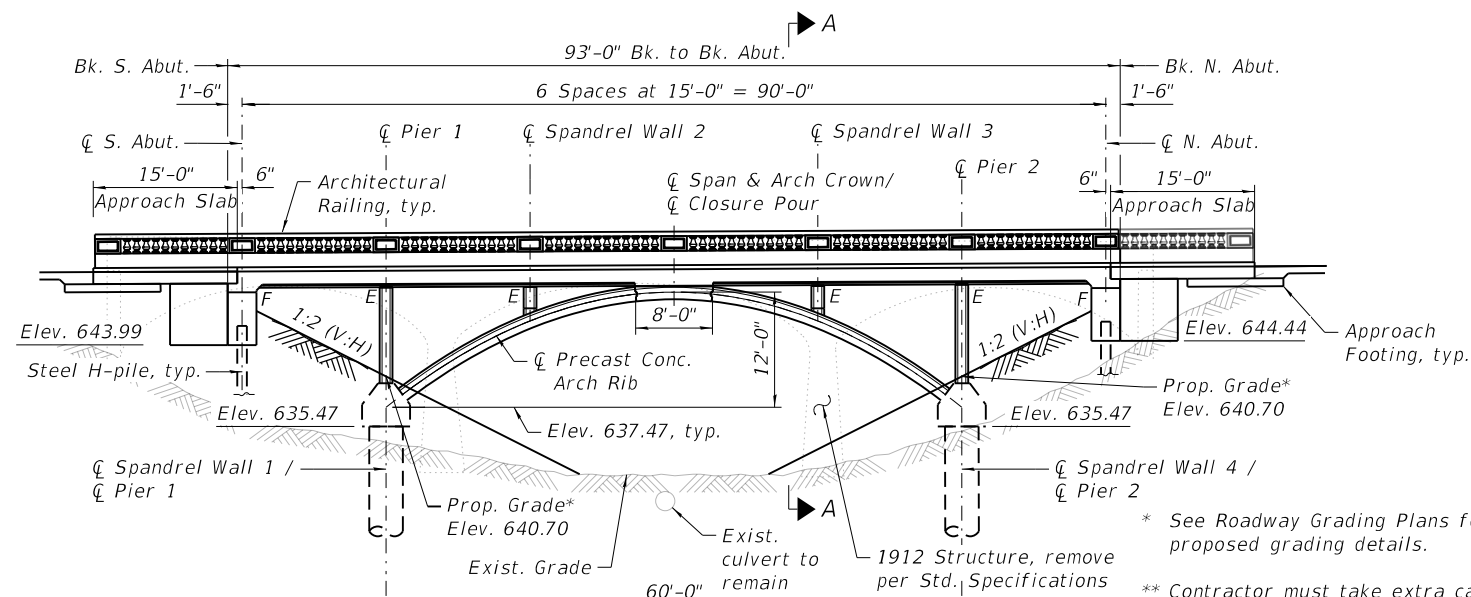
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	32
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

Benchmark: (description to be provided by surveyors)

Existing Structure: S.N. 049-6852, continuous three span ($\pm 33'-1\frac{1}{2}''$, $\pm 39'-9''$, $\pm 33'-1\frac{1}{2}''$), $\pm 27'-0''$ o. to o., closed spandrel concrete arch bridge, rise unknown. Built in 1912 under an unknown contract and repaired in 1978. The bridge shall be removed and replaced with a six span cast-in-place continuous slab superstructure on spandrel walls supported by precast arch ribs and integral abutments. Roadway traffic will be detoured during construction.

No salvage.



DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface
75 psf sidewalk pedestrian live load

DESIGN STRESSES

FIELD UNITS:
(Minimum compressive strength at 14 days for cast-in-place concrete)
 $f'c = 4,000$ psi (Abutment, drilled shaft cap, drilled shaft, wingwall, sidewalk (bridge & approach), railing plinth, barrier wall, approach slab and sleeper slab)
 $f'c = 5,000$ psi (Deck slab and spandrel walls)
 $f'c = 6,000$ psi (cast-in-place arch closure pour)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 35,000$ psi (Permanent casing)

PRECAST UNITS:

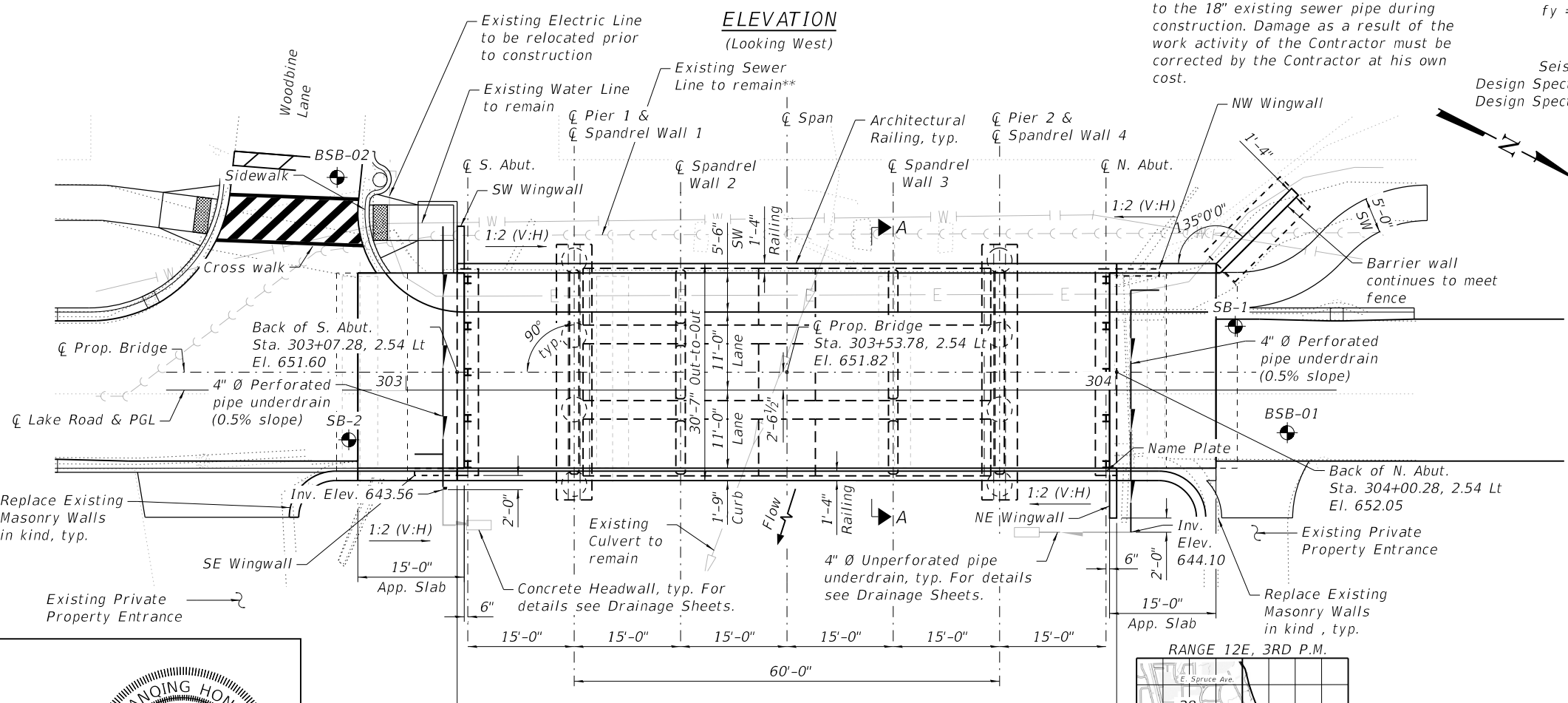
(Minimum compressive strength at 28 days for pre-cast concrete)
Arch Ribs
 $f'c = 6,000$ psi
 $f_y = 60,000$ psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_1) = 0.033g
Design Spectral Acceleration at 0.2 sec. (S_0) = 0.080g
Soil Site Class = C

ELEVATION

(Looking West)



PLAN

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".

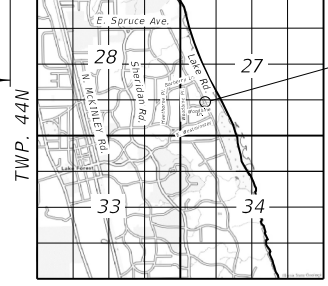
LEGEND:

- Soil Boring Location
- Existing Private Property Entrance

H.W. LOCHNER, INC.
JIANQING HONG, S.E.
DATE: 06/05/2024
081-006053
SIGNATURE AND SEAL APPLY TO SHEETS 33-71
EXP. DATE: 11/30/2024

Robert Hong

LOCATION SKETCH



GENERAL PLAN & ELEVATION
LAKE ROAD OVER UNNAMED RAVINE
LAKE COUNTY
SECTION NO. 12-00094-00-BR
STATION 303+53.78
STRUCTURE NO. 049-6851

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		DATE	6/10/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 049-6851

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	33
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

SHEET 1 OF 39 SHEETS STA. TO STA.

GENERAL NOTES

- 1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of shoring, in addition to allowance for dead load deflection.
3. A film forming Concrete Sealer shall be applied to the designated areas of the exposed surfaces of abutments, wingwalls, spandrel walls, precast arch and its closure pour.
...
13. Apply Integral Color Admixture, ASTM C979, to CONCRETE STRUCTURE, CONCRETE SUPERSTRUCTURE, CONCRETE SUPERSTRUCTURE (APPROACH SLAB), PRECAST CONCRETE ARCH to match existing concrete color per project specification requirements of CONCRETE FINISH.

INDEX OF BRIDGE PLAN SHEETS

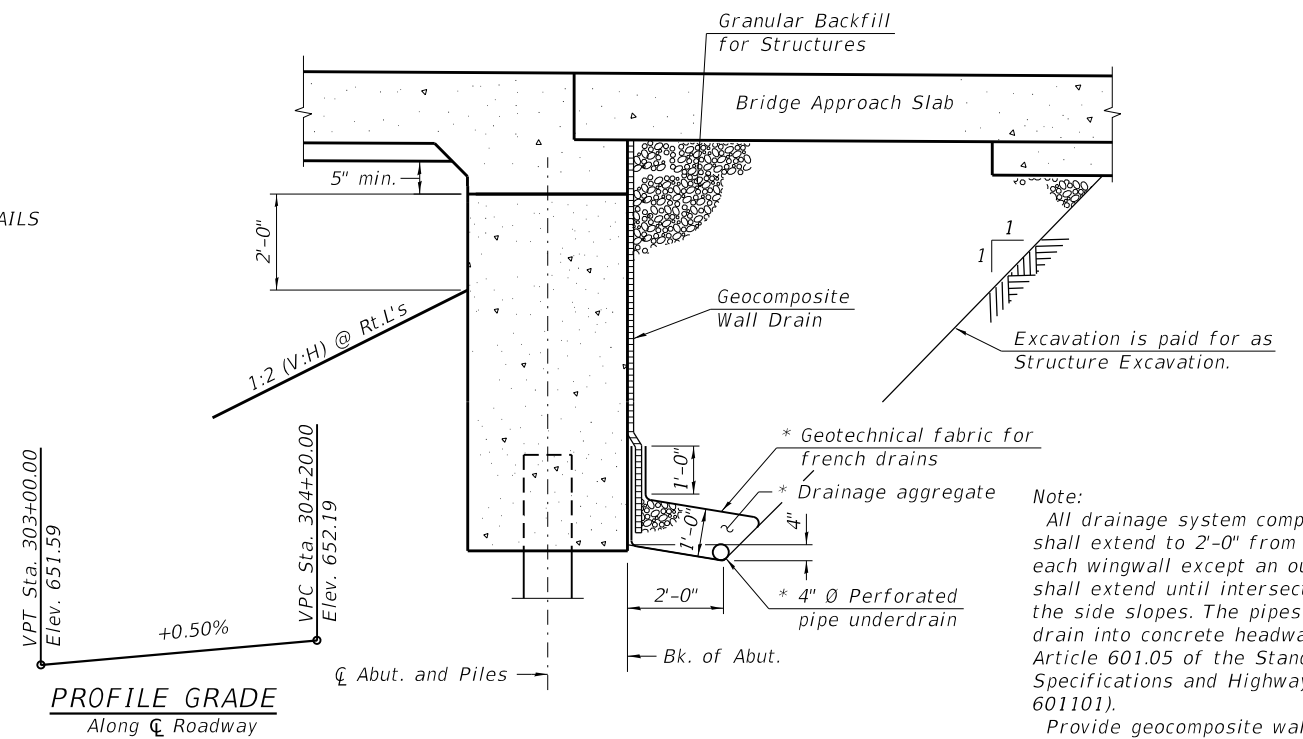
Table with 2 columns: SHEET NO., TITLE. Lists sheets 33 through 71 including GENERAL PLAN & ELEVATION, BRIDGE CROSS SECTION, DEMOLITION PLAN, FOUNDATION LAYOUT, and various details.

GENERAL NOTES (CONT'D)

- 14. The Contractor is responsible to implement the following noise and vibration control measures in order to reduce disturbance and mitigate the risk of property damage when driving piles.
-Use low-noise and low-vibration pile driving equipment, including hydraulic hammers or vibratory hammers
-Apply vibration isolation or damping devices, including but not limited to rubber pads or springs
...
15. The Contractor must take extra caution to not damage newly installed ComEd aerial lines located within the existing right of way.

TOTAL BILL OF MATERIAL

Table with 6 columns: Item, Unit, Super, Sub (Piers, Abuts.), Total. Lists materials such as Concrete Structures, Reinforcement Bars, Steel Piles, and Geocomposite Wall Drain.



PROFILE GRADE Along Roadway

SECTION THRU INTEGRAL ABUTMENT (Horiz. dim. at Rt. L's)

* Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes.

UNNAMED RAVINE BUILT 202 BY CITY OF LAKE FOREST SEC. 12-00094-00-BR STATION 303+53.78 STRUCTURE NO. 049-6851 LOADING HL-93

NAME PLATE See Std. 515.001

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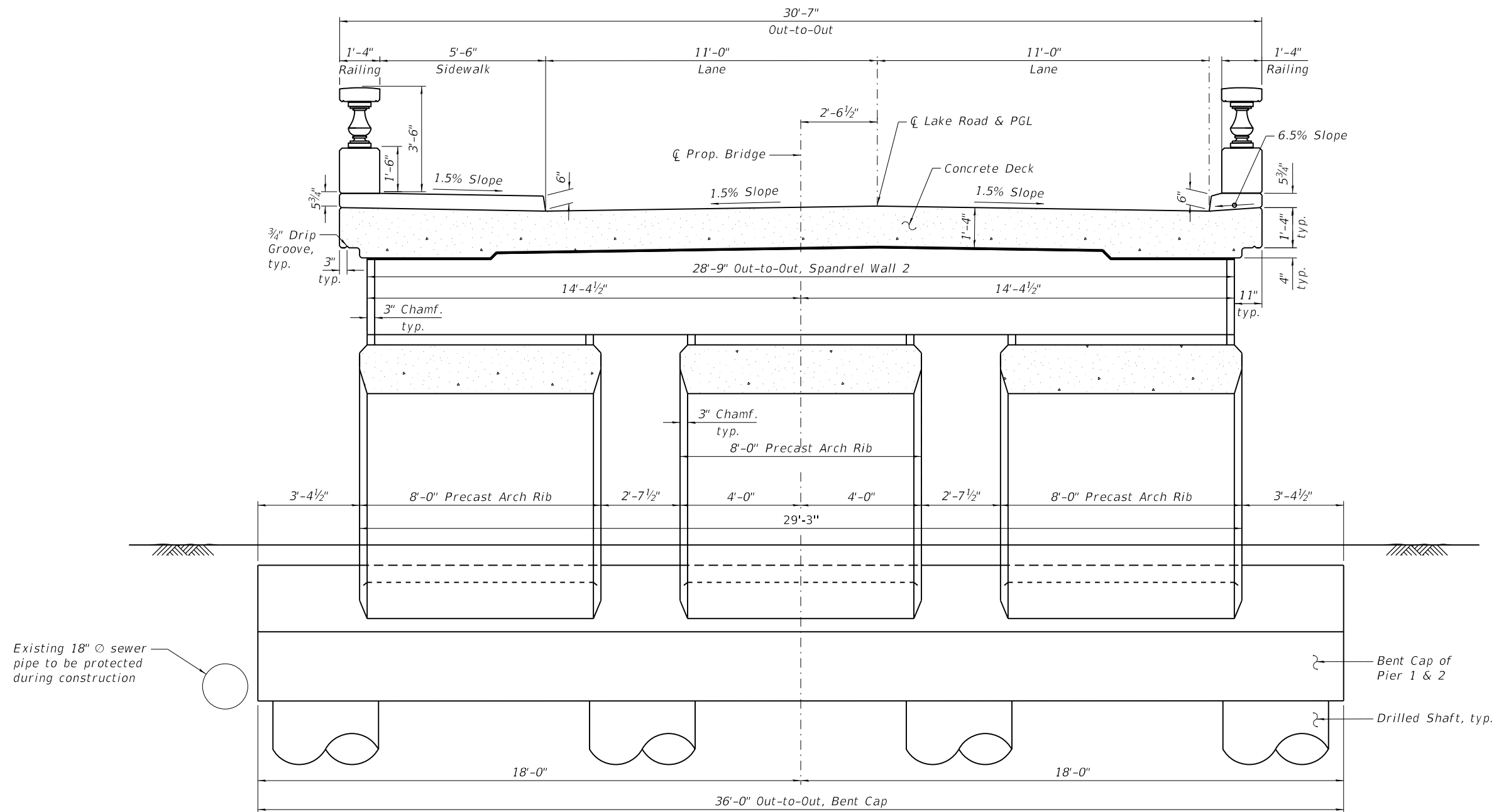


Table with 4 columns: USER NAME, DESIGNED, DRAWN, CHECKED, PLOT DATE and their corresponding values (e.g., MM, RH, 6/10/2024).

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIAL STRUCTURE NO. 049-6851 SHEET 2 OF 39 SHEETS STA. TO STA.

Table with 5 columns: MUN. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 1370, 12-00094-00-BR, LAKE, 86, 34.



BRIDGE CROSS SECTION - SECTION A-A
 (Looking North, See Sheet 33 for locations)

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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



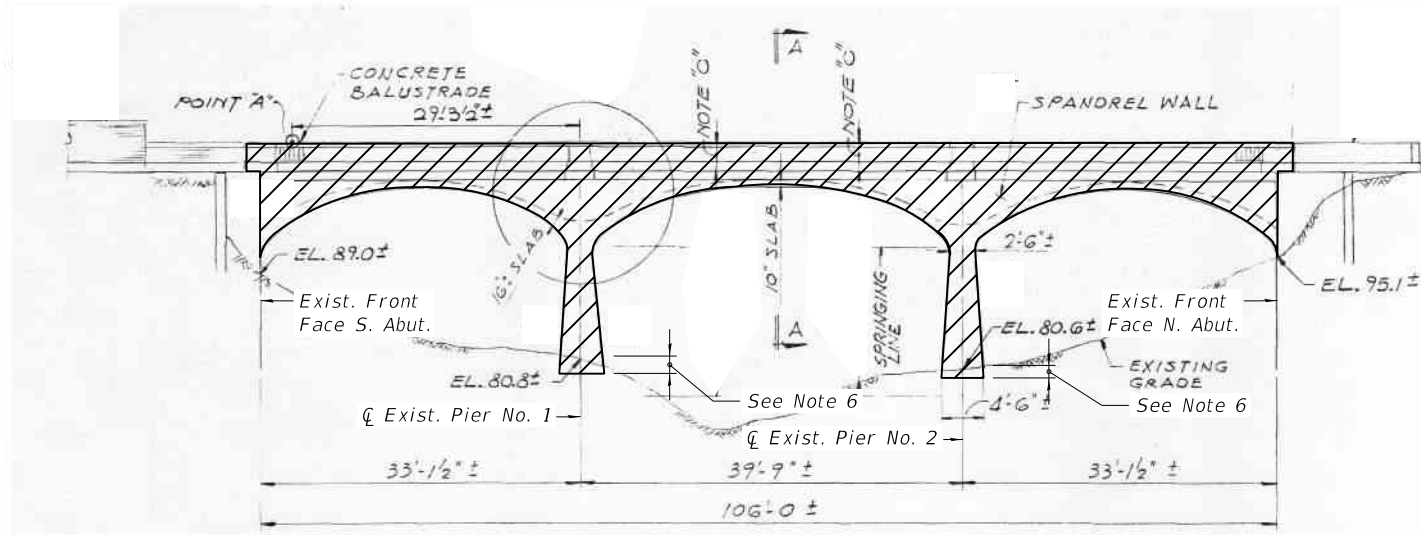
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PLOT DATE	= 5/16/2024				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

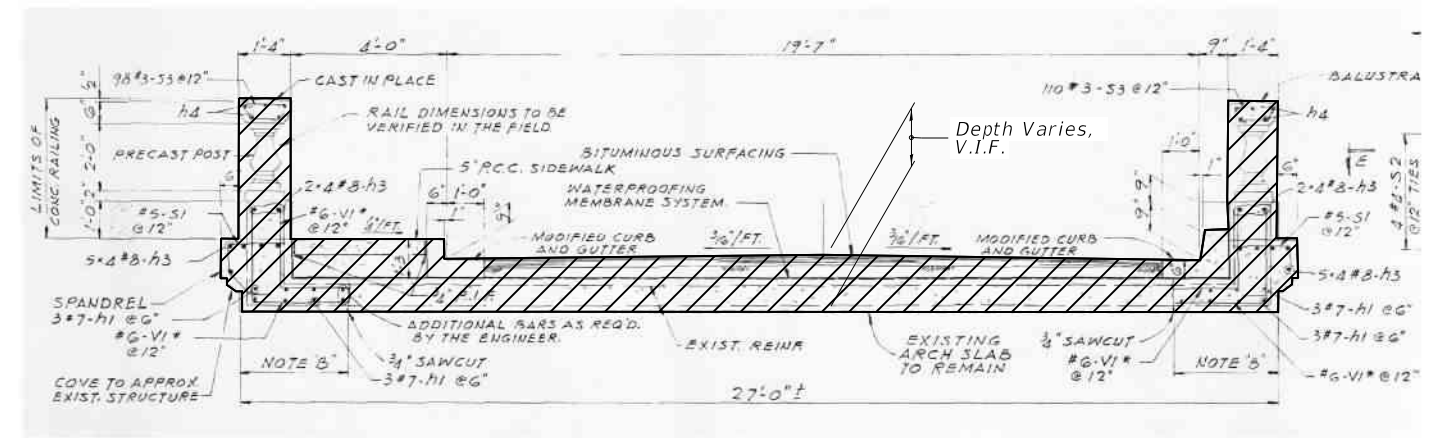
**BRIDGE CROSS SECTION
 STRUCTURE NO. 049-6851**

SHEET 3 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	35
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



ELEVATION



SECTION A-A

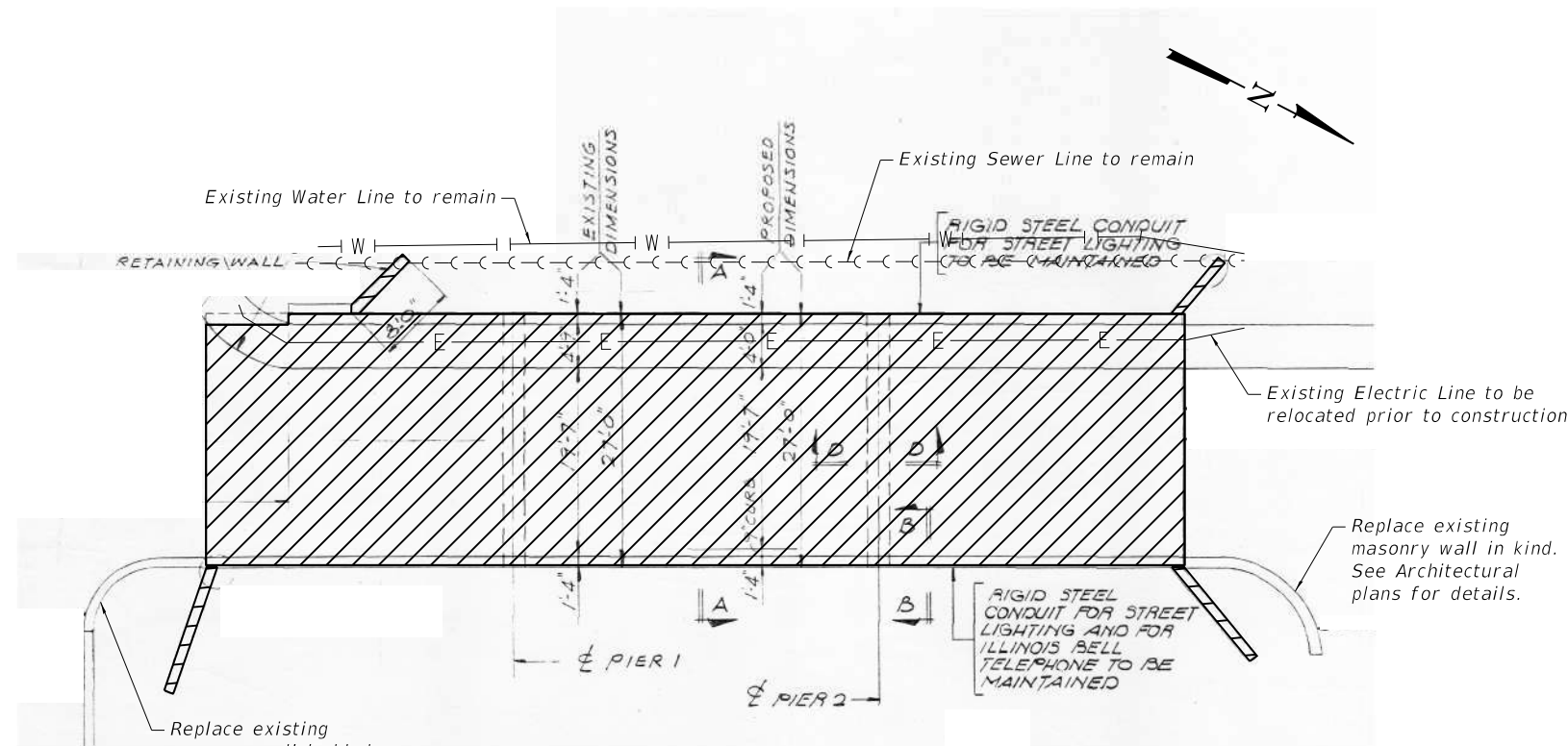
NOTES:

- The existing bridge can be removed in stages depending on the Contractor's proposed sequencing of drilled shaft and steel H-pile construction. Coordinate existing abutment and pier removal with proposed construction.
- See Specifications for details of the pay item "Removal of Existing Structures".
- Partial removal of existing retaining/wing walls indicated on this Sheet are included in the pay item "Removal of Existing Structures".
- Removal of the existing bridge balustrade, sidewalk, curbs, concrete spandrel walls, fill material within, concrete arch slabs and pavement are items included in the pay item "Removal of Existing Structures".
- Partial removal of existing concrete abutments below the proposed roadway and partial removal of the piers below the proposed grade is included in the pay item "Removal of Existing Structures". Existing abutments, retaining/wing walls and piers shall be removed to 1' below the lowest elevation of the existing grade, proposed grade or bottom of the proposed concrete elements.
- Design plans of the existing supporting foundations as to size, depth, materials and other possible elements is unknown.
- Construction information of existing masonry walls at the northeast and southeast corners of the existing bridge to private driveways are unknown.
- Dimensions and elevations from 1978 rehabilitation details depicted on this Sheet have not been field verified and for information only. Other information called out may not be current.
- Structural Assessment Reports (SAR) for removal of existing structures, or portions thereof, shall demonstrate that the Contractor's proposed means and methods to accomplish the work do not compromise the structural adequacy of the bridge, or portions thereof that are to remain stable, at anytime during the work activities being performed. Each phase of the operation shall be accounted for, as well as the existing condition of the structure.
- Contractor is responsible for the means and methods for the protection of adjacent properties near the construction during the removal of existing bridge. Cost of temporary soil retention system or other shoring system will not be paid for separately and they will be included with the pay item "Removal of Existing Structures" if required by the Contractor.
- If additional concrete removal is required to facilitate the construction access to bottom of ravine per Contractor's means and methods, its cost is included with pay item "Removal of Existing Structures".
- The cost of additional partial removal of existing concrete abutments required to allow the installation of granular backfill for structures, bridge approach slab and approach footing is included with pay item "Removal of Existing Structures".

LEGEND:

- Removal limits of existing structure

VIF - Verify in Field



PLAN

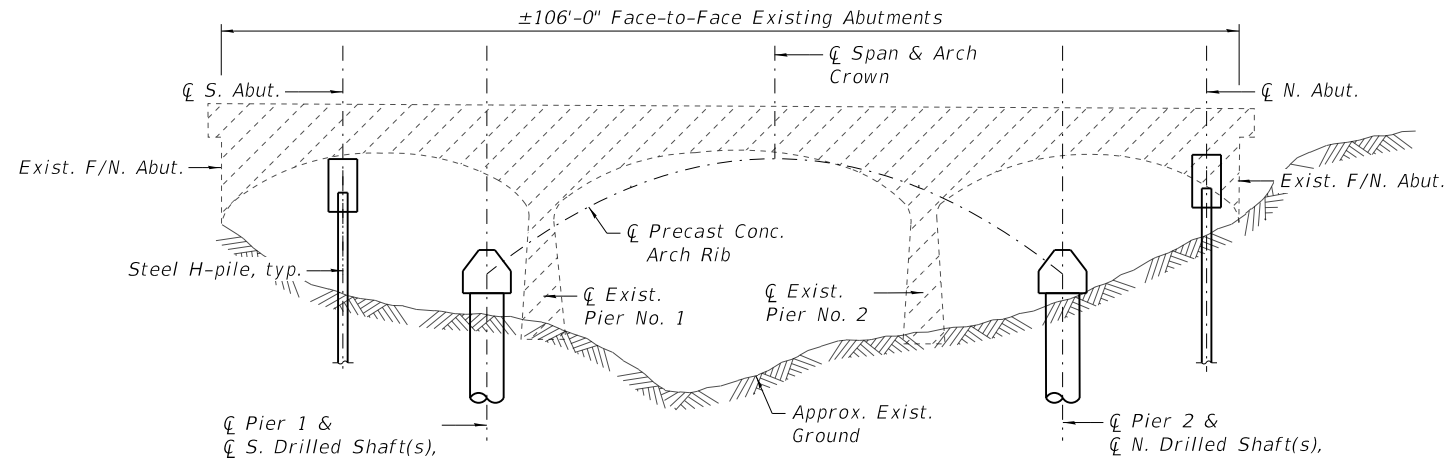
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	36
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

PHASE 1 CONSTRUCTION ACTIVITIES

1. Verify location of existing foundations and utilities and check for conflicts with proposed drilled shafts and steel H-pile foundations.
2. Install new bent cap beams and abutment pile cap beams.
3. Contractor to coordinate his/her demolition sequence of the existing structure with foundation installation. See Sheet 36.

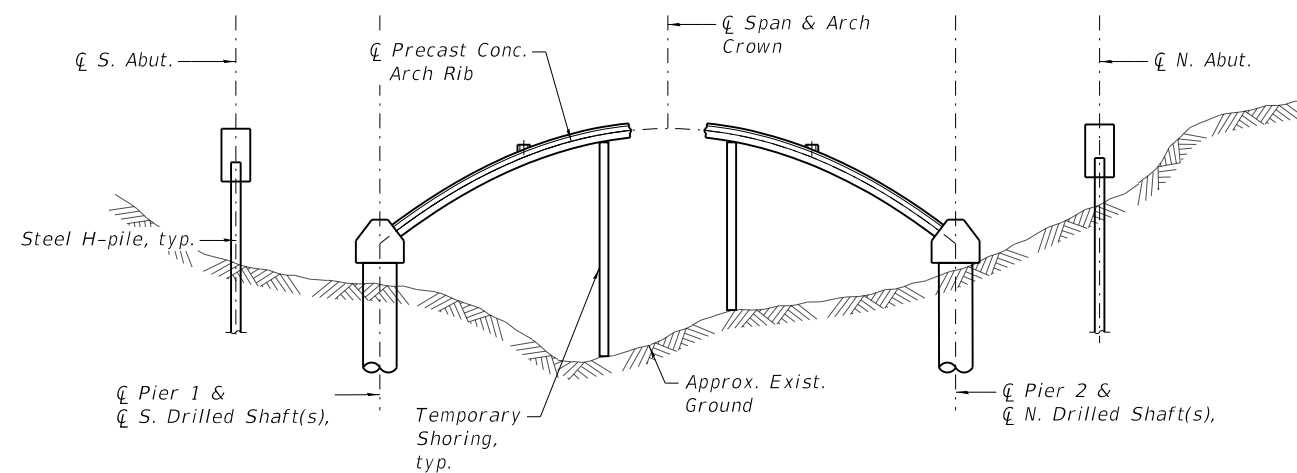


ELEVATION - PHASE 1

(Looking West)

PHASE 2 CONSTRUCTION ACTIVITIES

1. Complete removal of existing bridge structure.
2. Install backfill between existing and proposed abutments, including waterproofing and underdrains.
3. Install temporary shoring between proposed bents. The Contractor is responsible for the structure and foundation design of temporary shoring. Design and calculations must be prepared, signed and sealed by a Structure Engineer licensed in the State of Illinois and submitted to the City for approval prior to precast arch rib erection.
4. Erect precast arch ribs. Estimated weight of precast arch rib piece is 48 kips.

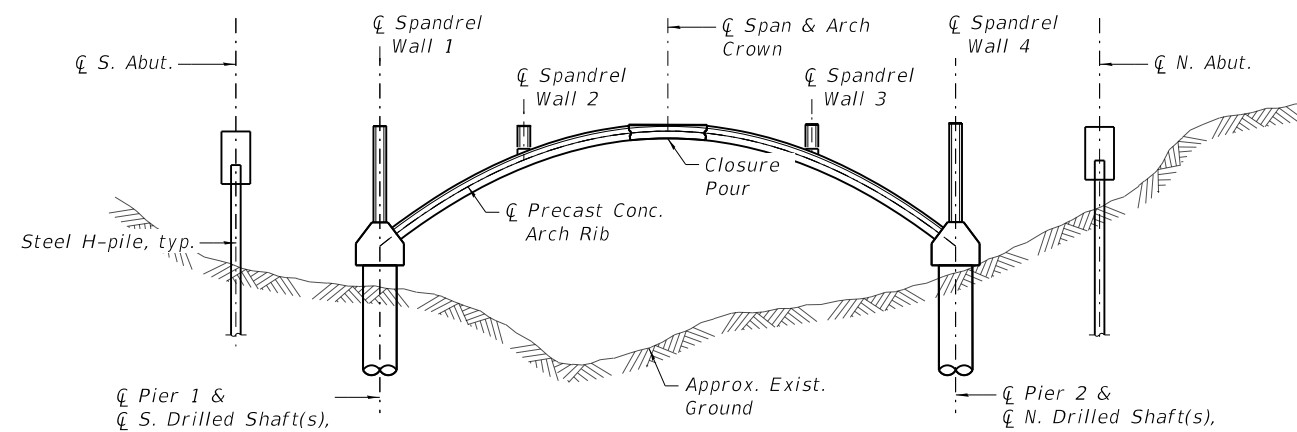


ELEVATION - PHASE 2

(Looking West)

PHASE 3 CONSTRUCTION ACTIVITIES

1. Install shoring and temporary deck to form keystone beam.
2. Cast in place Arch Crown Beam and cure for 7 days.
3. Grout reinforcement splice coupler sleeves between bottom end of precast arch segments and bent grade beams.
4. Relieve shoring of arch segment dead loads.
5. Form and pour spandrel walls, symmetrically about CL of Span. For example, 1 and 4 or 2 and 3.



ELEVATION - PHASE 3

(Looking West)

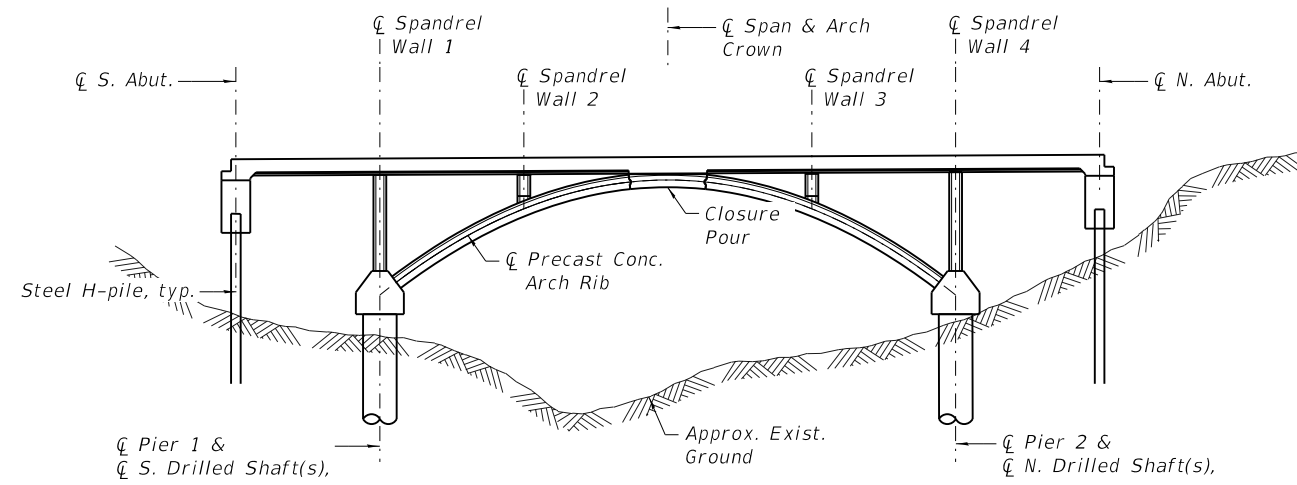
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PLOT DATE	5/16/2024	DATE	6/10/2024	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	37
CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	

PHASE 4 CONSTRUCTION ACTIVITIES

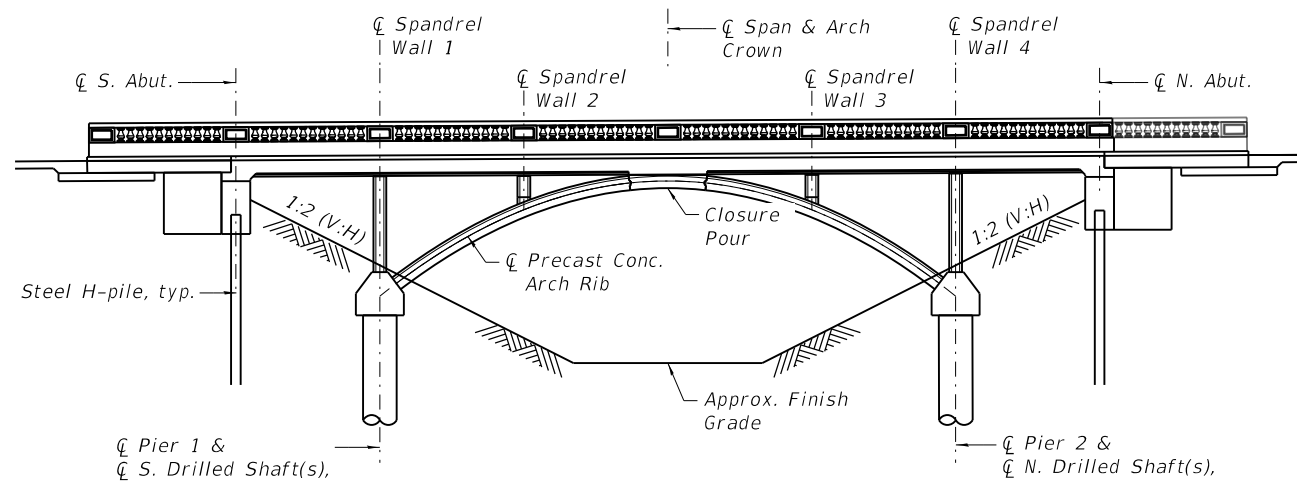
1. Install temporary deck and cast deck slab.
2. Form and pour sidewalk and curb.
3. Strip deck slab after 7 calendar day curing period.
4. Form and pour approach slabs (not shown).



ELEVATION - PHASE 4
(Looking West)

PHASE 5 CONSTRUCTION ACTIVITIES

1. Install precast balustrade.
2. Complete removal of any shoring or temporary sheeting.
3. Complete backfill around bent grade beams.
4. Complete grading and landscaping restoration of ravine side slopes.



ELEVATION - PHASE 5
(Looking West)

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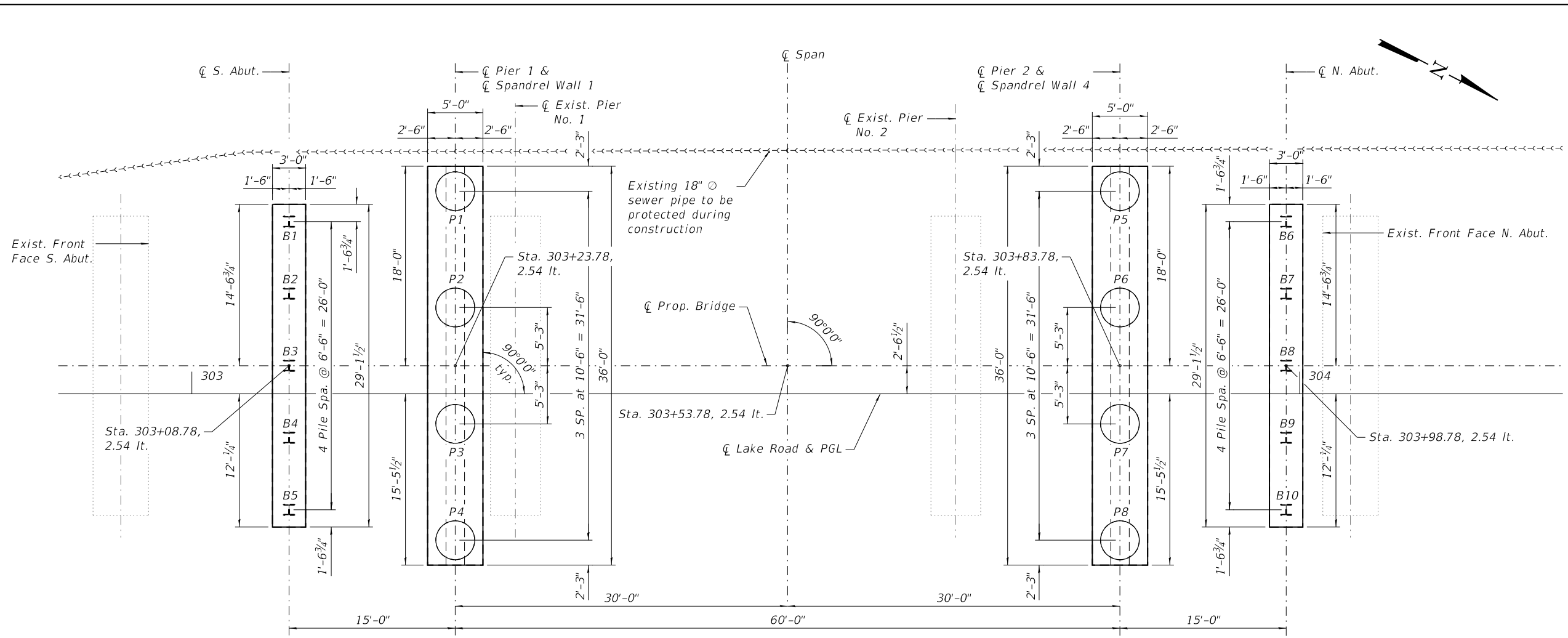
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PLOT DATE	5/16/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED ERECTION SEQUENCE 2
STRUCTURE NO. 049-6851**

SHEET 6 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	38
CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	



FOUNDATION LAYOUT PLAN

LEGEND:

- - Indicates new Drilled Shaft
- I - Indicates new Steel HP Pile
- - Indicates existing foundation (see Note 10)
- V.I.F. - Verify in Field

NOTES:

1. The quantities and reinforcement detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
2. The Contractor shall make proper arrangements to maintain clearance of reinforcement for entire depth of drilled shaft.
3. If the bottom of drilled shaft is lowered, the Contractor shall extend the drilled shaft reinforcement by providing additional reinforcement bars of equal size and lapping with minimum splice length shown on plans.
4. In case of raised bottom of drilled shaft, reinforcement bars projecting more than the specified projection above the top of drilled shaft shall be cut off at the straight end to maintain the specified projection.
5. Drilled shafts are sized for a factored unit tip resistance of 18 ksf based on a factored resistance of 0.4. The nominal unit side resistance are provided in Structure Geotechnical Report.
6. Final locations of new drilled shafts may be adjusted slightly in the field by the Contractor, subject to the approval of the Engineer and the City.
7. The Contractor shall conduct all drilled shaft and steel pile construction operations from the roadway level and/or the existing bridge during staged or partial demolition of the superstructure, which may necessitate temporary shoring. The cost of temporary shoring is included in the cost of drilled shafts or steel piles.
8. Existing, modified and proposed wingwalls at the abutment corners are not shown for clarity.
9. Design plans of the existing foundations as to size, depth, materials and other possible support elements is unknown.
10. The Contractor shall proceed with extreme caution before pile driving due to the nature of the historic neighborhood. See Structural General Note #14 for additional information for mitigating noise and vibrations.

MODEL: Default
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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



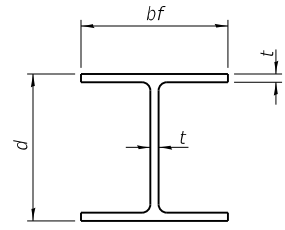
USER NAME - Personal	DESIGNED - MM	REVISED -
PLOT SCALE = 10.67' / in.	DRAWN - MM	REVISED -
PLOT DATE = 5/16/2024	CHECKED - RH	REVISED -
	DATE - 6/10/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FOUNDATION LAYOUT
STRUCTURE NO. 049-6851**

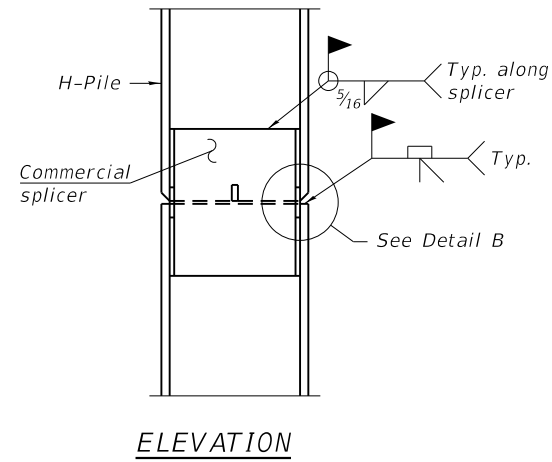
SHEET 7 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	39
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

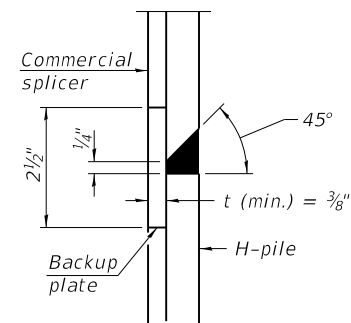


STEEL PILE TABLE

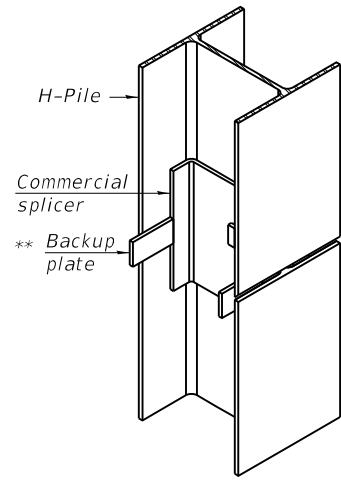
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

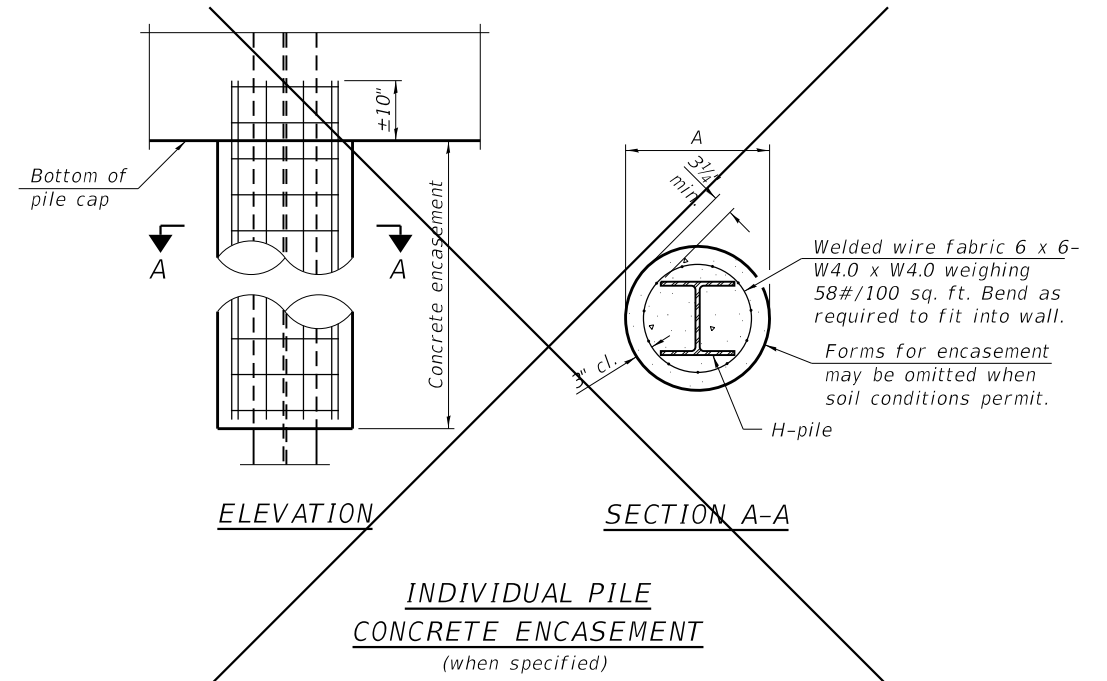


DETAIL "B"



ISOMETRIC VIEW

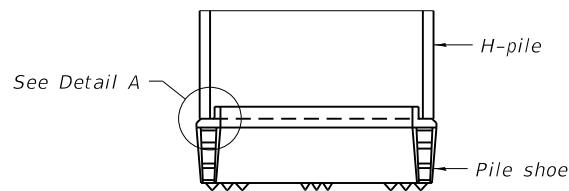
WELDED COMMERCIAL SPLICE



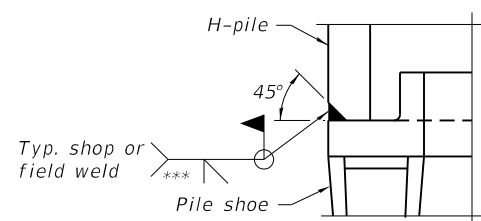
ELEVATION

SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



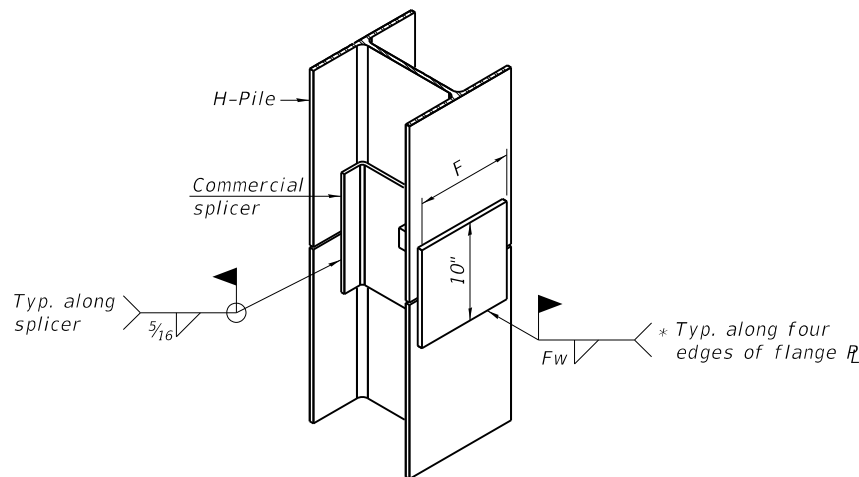
ELEVATION



DETAIL A

SHOE ATTACHMENT

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



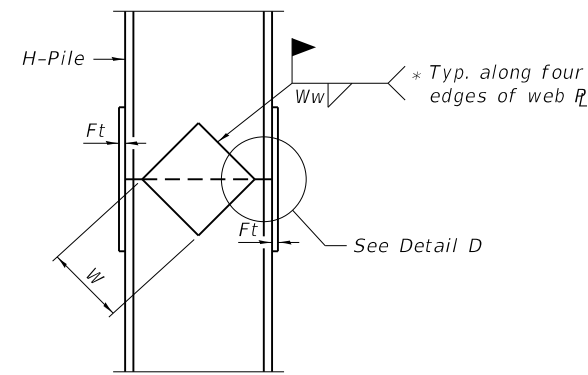
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

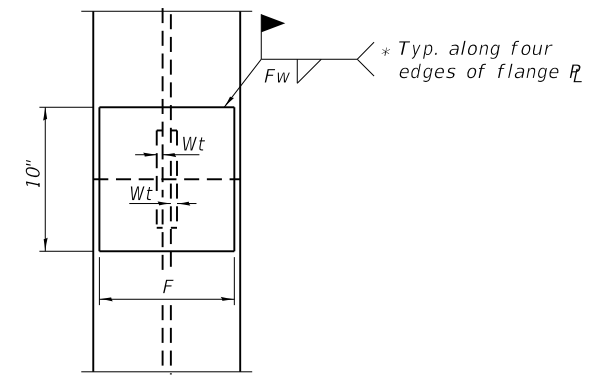
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

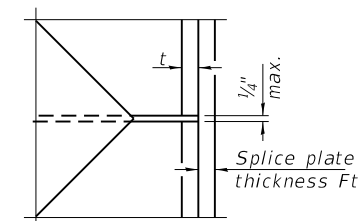
*** Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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PLOT DATE	= 5/16/2024	DATE	6/10/2024	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	40
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

DRILLED SHAFT INSTALLATION RECORD

Shaft Locations	Shaft Mark	Shaft Dia., ft.	Top of Rock Socket Elev.	Bottom Elev.	Rock			Ratio of Depth to Diameter	Field Bearing Pressure ksf (Note 1)	Permanent Casing Used Length, ft.	Corrugated Metal Line Used Length, ft.	Temporary Casing Used Length, ft.	Remarks
					Description		Qu=Unconfined Compressive Strength, tsf						
Pier 1	P1	3'-6"											
Pier 1	P2	3'-6"											
Pier 1	P3	3'-6"											
Pier 1	P4	3'-6"											
Pier 2	P5	3'-6"											
Pier 2	P6	3'-6"											
Pier 2	P7	3'-6"											
Pier 2	P8	3'-6"											

NOTES:

- Field Bearing Pressure shall be calculated based on Unconfined Compressive Strength and ratio of depth to diameter of shaft. The field bearing pressure shall be 1.5 times Q_u if the ratio of the depth of the drilled shaft measured from the top of the drilled shaft to the bottom of the bell (or bottom of shaft if no bell is present) to the diameter of the bell (or shaft if no bell is present) is equal to or greater than 4.0. If the depth to diameter ratio is less than 4.0, the engineer should contact IDOT.
- All elevations are to be shown in the table using English units.
- For drilled shaft locations see Sheet 39.

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		DRAWN	MM	REVISED	-
PLOT SCALE	0:2,000 *"/in.	CHECKED	RH	REVISED	-
PLOT DATE	5/16/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRILLED SHAFT RECORD
STRUCTURE NO. 049-6851**

SHEET 9 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	41
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

PILE DRIVING RECORD

Date piles driven:
(Month Year)

Type & size of pile used:

Pile driving equipment used:

Energy rating:

Hammer used: Type

Stroke

Weight

Formula used to calculate capacity:

Pile driving Contractor:

Engineer:

Pile Location	Pile No.	Ground Surface Elevation	Cut-off Elevation	Penetration length, ft.	Driving data for the final 5 ft. - Blows						Capacity Tons	Remarks
					5' to 4'	4' to 3'	3' to 2'	2' to 1'	1' to 0'	12" to 6"*		
S. Abut.	B1											
S. Abut.	B2											
S. Abut.	B3											
S. Abut.	B4											
S. Abut.	B5											
N. Abut.	B6											
N. Abut.	B7											
N. Abut.	B8											
N. Abut.	B9											
N. Abut.	B10											

* For piles driven to refusal, blow count for the last foot shall be recorded in 6-inch increments. Pile damage, obstruction, pile rejection, test piles etc. shall be recorded in remarks column.

NOTES:

1. For pile locations see Sheet 39.

MODEL: Default
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225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606 / 312-372-3011 (P)

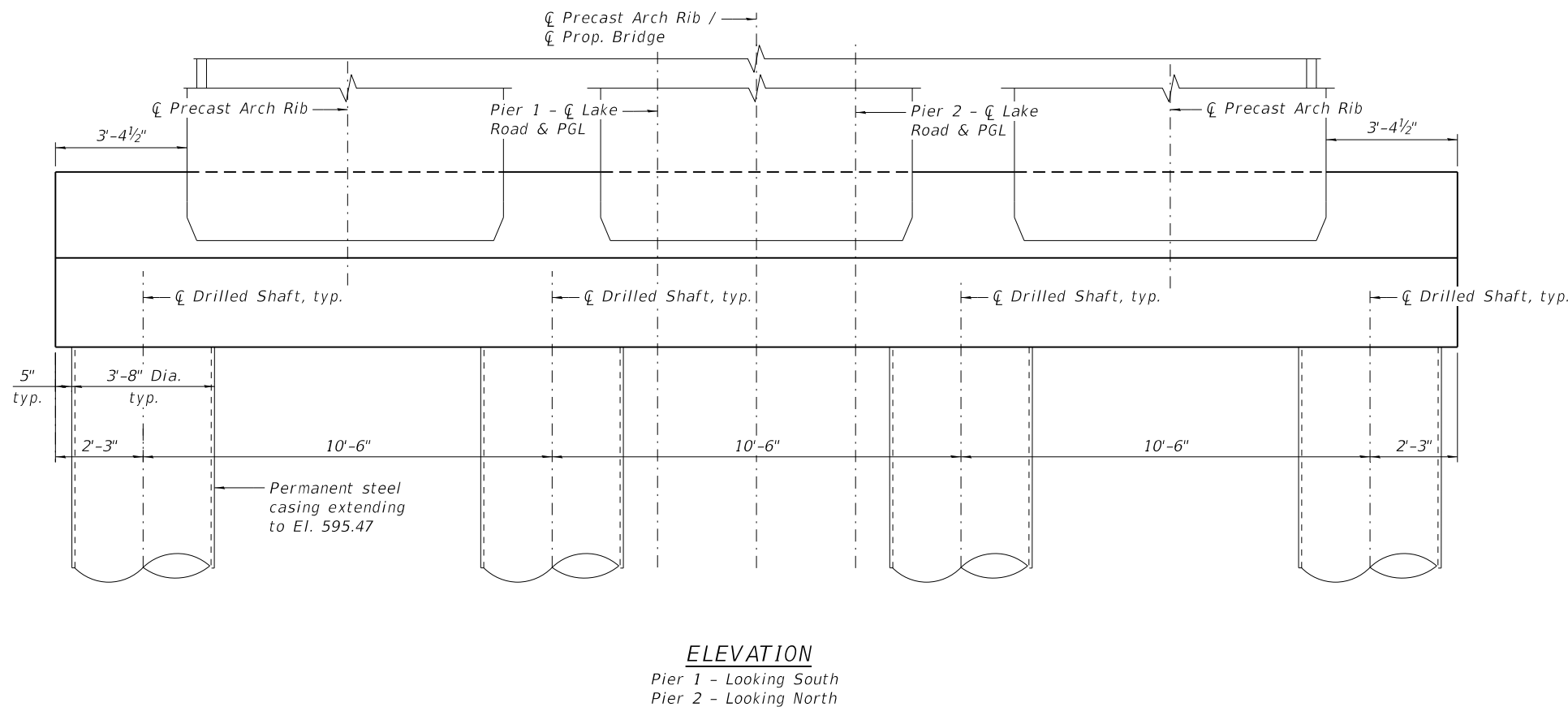
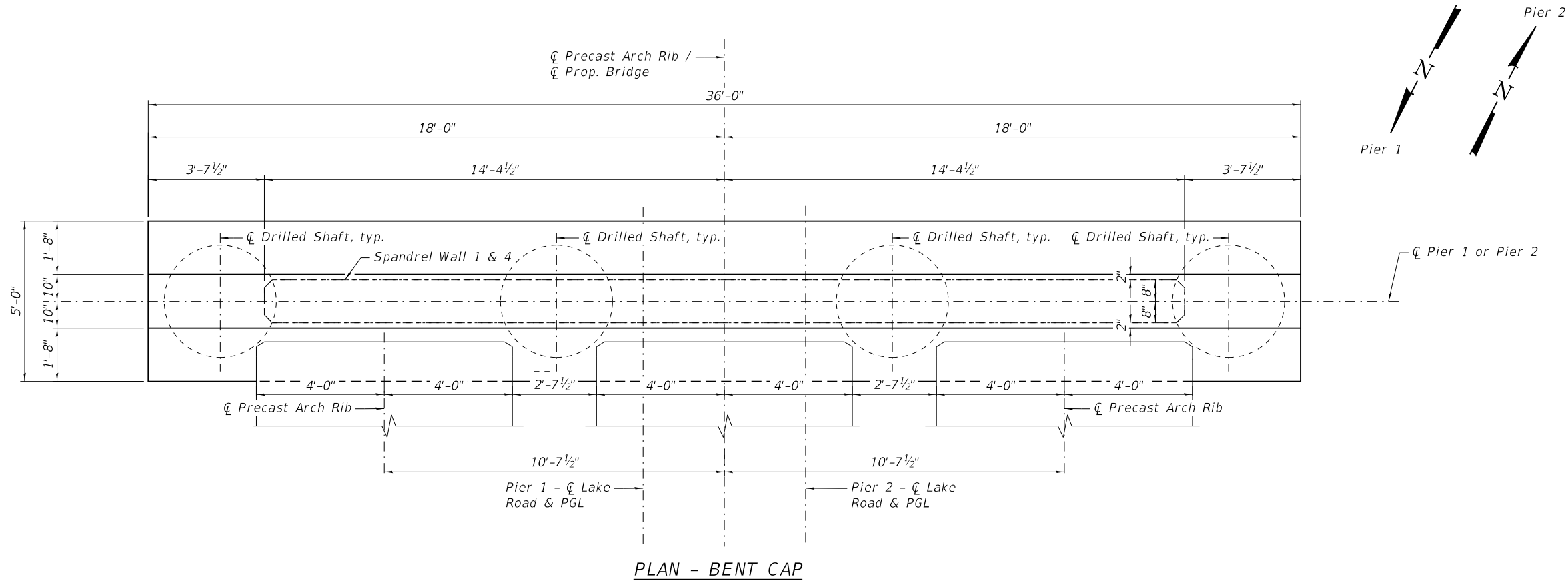
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DRAWN	MM	REVISION	-		
PLOT SCALE	0:2,000 *"/in.	CHECKED	RH	REVISION	-
PLOT DATE	5/16/2024	DATE	6/10/2024	REVISION	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PILE RECORD
STRUCTURE NO. 049-6851**

SHEET 10 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	42
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



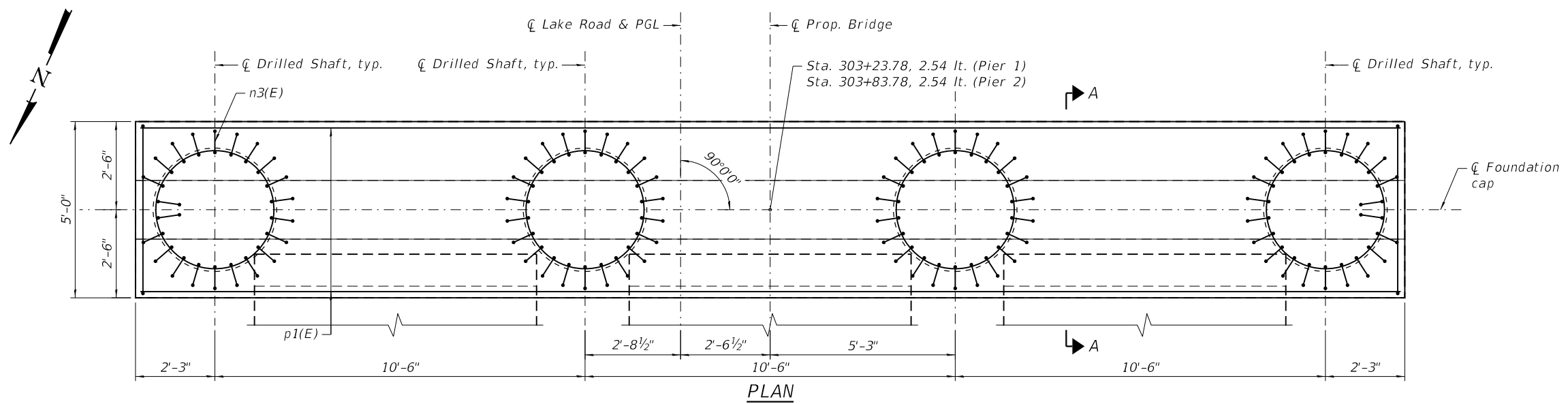
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DRAWN	MM	CHECKED	RH	REVISI	-
PLOT SCALE	4,000' / in.	DATE	6/10/2024	REVISI	-
PLOT DATE	5/16/2024				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

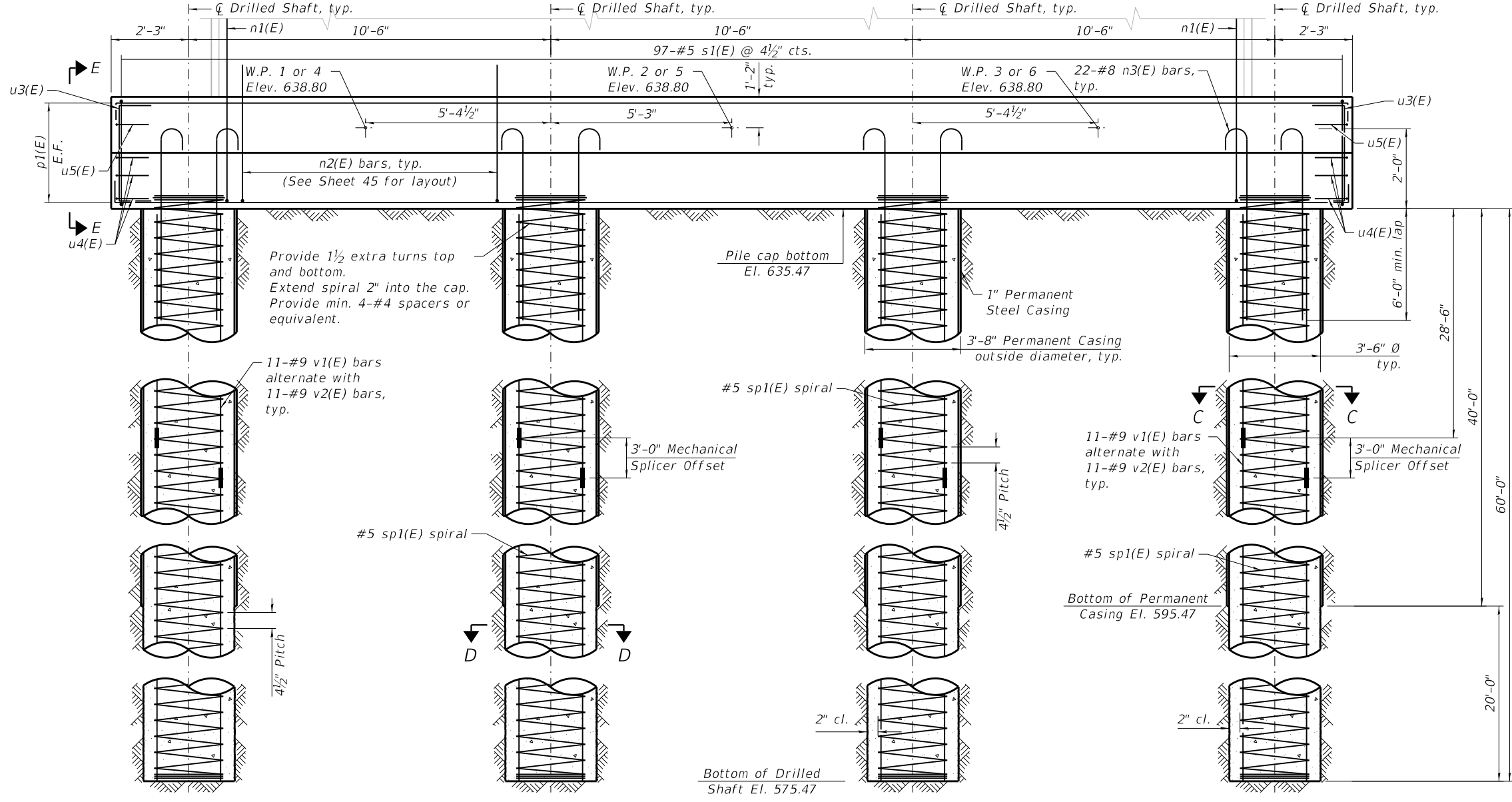
PIER FOUNDATION, SECTIONS & DETAILS
STRUCTURE NO. 049-6851

SHEET 11 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	43
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

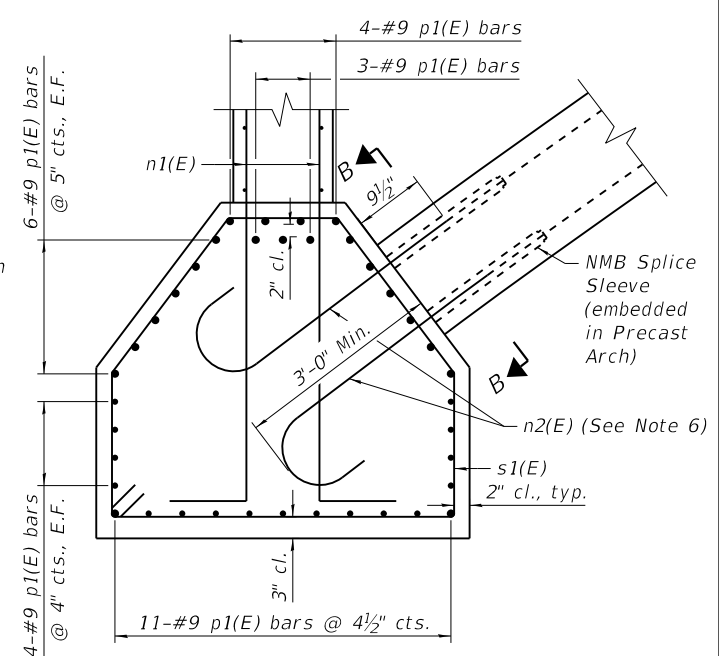


PLAN



ELEVATION

(Pier 1 Looking South, Pier 2 Looking North)

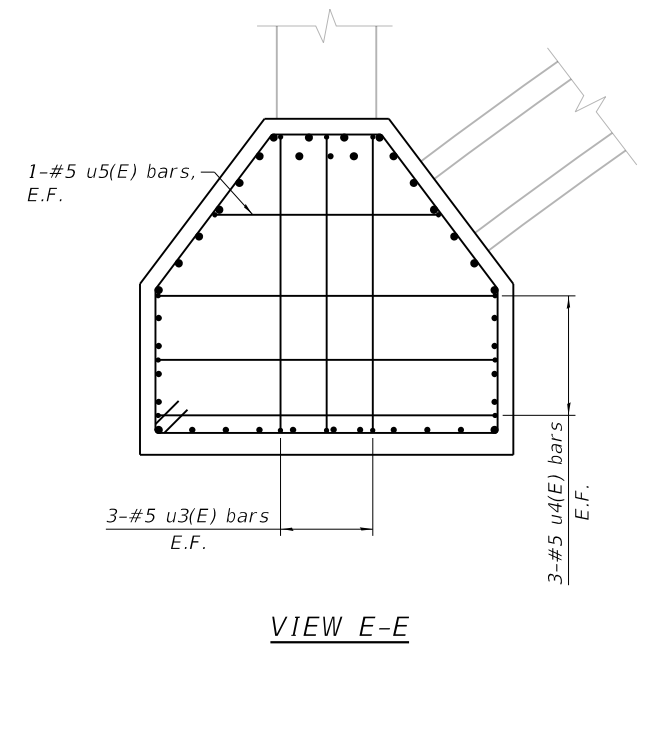


SECTION A-A

For Section B-B, See Note 6

NOTES:

1. See Sheet 39 for foundation layout.
2. Spiral reinforcement shall be provided with 1 1/2 extra turns at each end. Extend spiral 2" into the cap. Provide min. 4-#4 spacers or equivalent.
3. Note about the splice in drilled shaft (Alter between bars).
4. For W.P. Station and Offset see Sheet 48.
5. For Sections B-B, C-C, and D-D see Sheet 45.
6. n2(E) bars must be installed with steel template plate in the field normal to the surface of footing to ensure matching the layout of NMB splice sleeves shown Sheet 49 with precision.



VIEW E-E

MODEL: Default
FILE NAME: P:\a\lochner\chicago\bechtel\chicago\projects\p1\documents\sheet\2020-12-SHT-HW-STR-DRILLED-SHAFT-DETAILS.dgn



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DRAWN	MM	CHECKED	RH	DATE	6/10/2024
PLOT SCALE	0.167' / in.				
PLOT DATE	5/16/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRILLED SHAFT DETAILS
STRUCTURE NO. 049-6851**

SHEET 12 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	44
CONTRACT NO. 61K52				
ILLINOIS		FED. AID PROJECT		

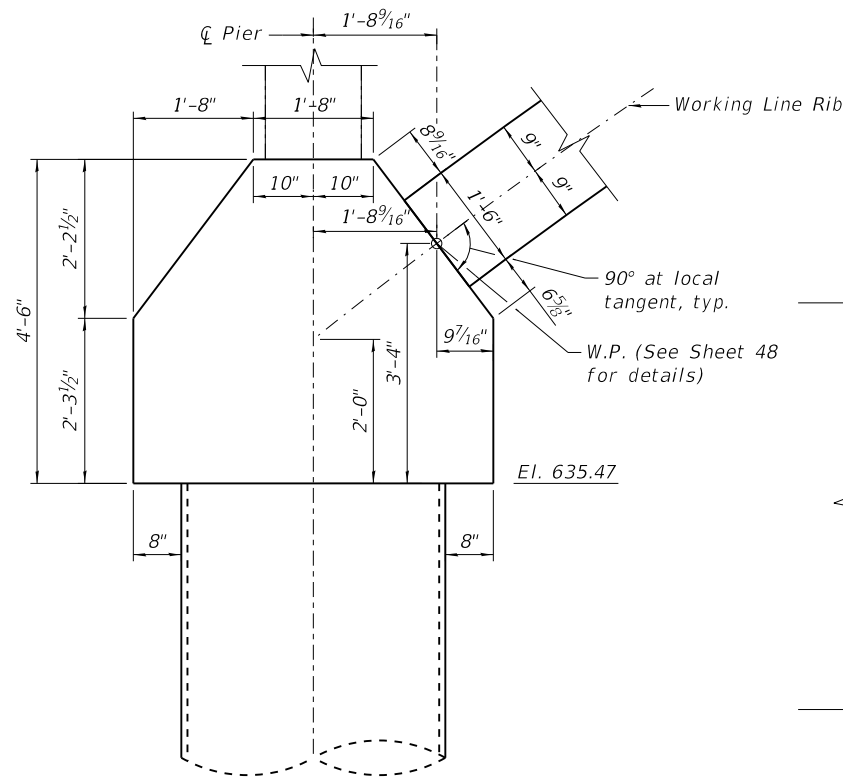
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n1(E)	140	#8	9'-6"	└
n2(E)	252	#9	5'-1"	└
n3(E)	176	#9	9'-3"	└
p1(E)	76	#9	38'-10"	└
s1(E)	194	#5	16'-4"	└
sp1(E)	8	#5	61'-2"	⋈
u3(E)	6	#5	5'-8"	└
u4(E)	6	#5	6'-3"	└
u5(E)	2	#5	4'-9"	└
v1(E)	176	#9	28'-6"	—
v2(E)	176	#9	31'-6"	—
Concrete Structures			Cu. Yd.	50.2
Reinforcement Bars, Epoxy Coated			Pound	76,060
Mechanical Splicers			Each	176
Permanent Casing			Foot	320
Drilled Shaft in Soil			Cu. Yd.	171.1
Thermal Integrity Profile Testing			Each	8
Thermal Integrity Profile Data Collection			Foot	480

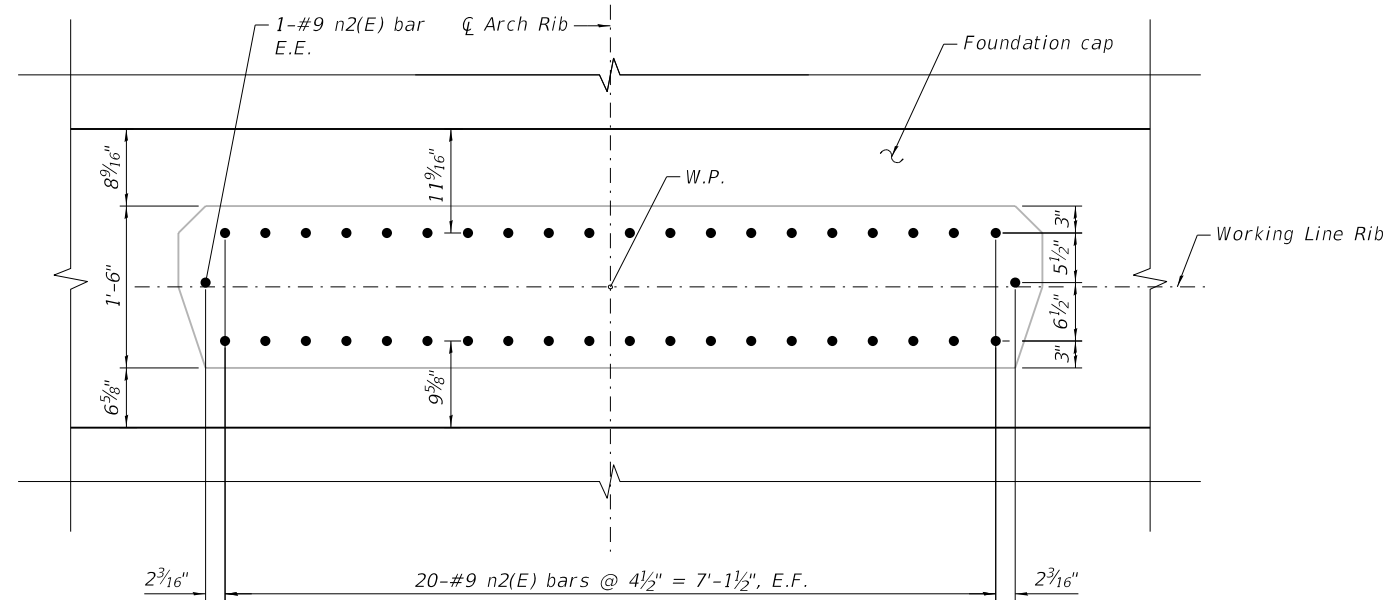
Minimum lap for spirals = 3'-9"
 ** Length is height of spiral.

NOTES:

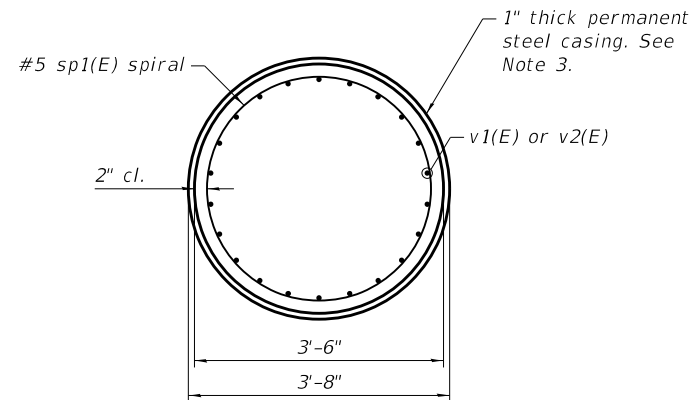
- For foundation layout see Sheet 39.
- Bill of materials is for two cap beams.
- Steel casing shall be ASTM A252, Grade 2.
- For location of SECTION B-B, see Sheet 44.



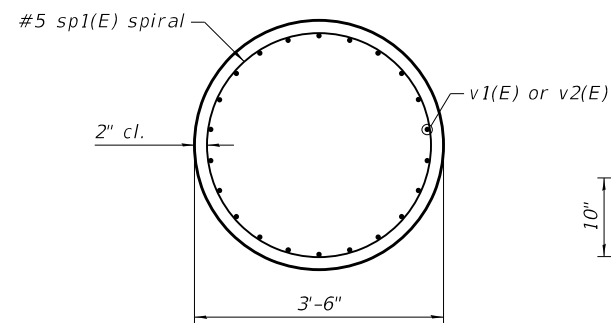
CAP DETAILS



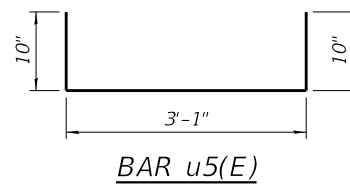
SECTION B-B
(6 total)



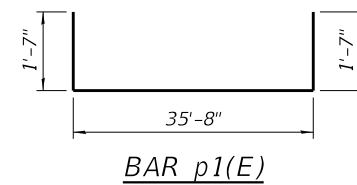
SECTION C-C



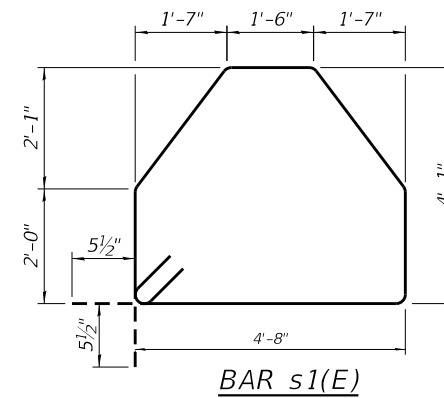
SECTION D-D



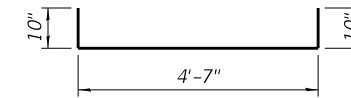
BAR u5(E)



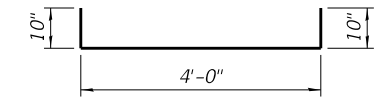
BAR p1(E)



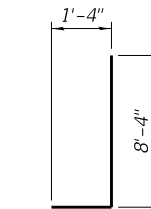
BAR s1(E)



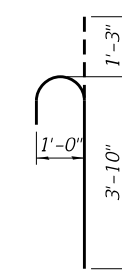
BAR u4(E)



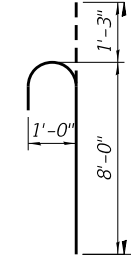
BAR u3(E)



BAR n1(E)



BAR n2(E)



BAR n3(E)

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 PROJECT: 12-00094-00-BR
 SHEET: 13 OF 39
 DATE: 5/16/2024



USER NAME: Personal
 DESIGNED: MM
 DRAWN: MM
 CHECKED: RH
 PLOT SCALE: 2:8" = 1"
 PLOT DATE: 5/16/2024

DESIGNED: MM
 DRAWN: MM
 CHECKED: RH
 DATE: 6/10/2024

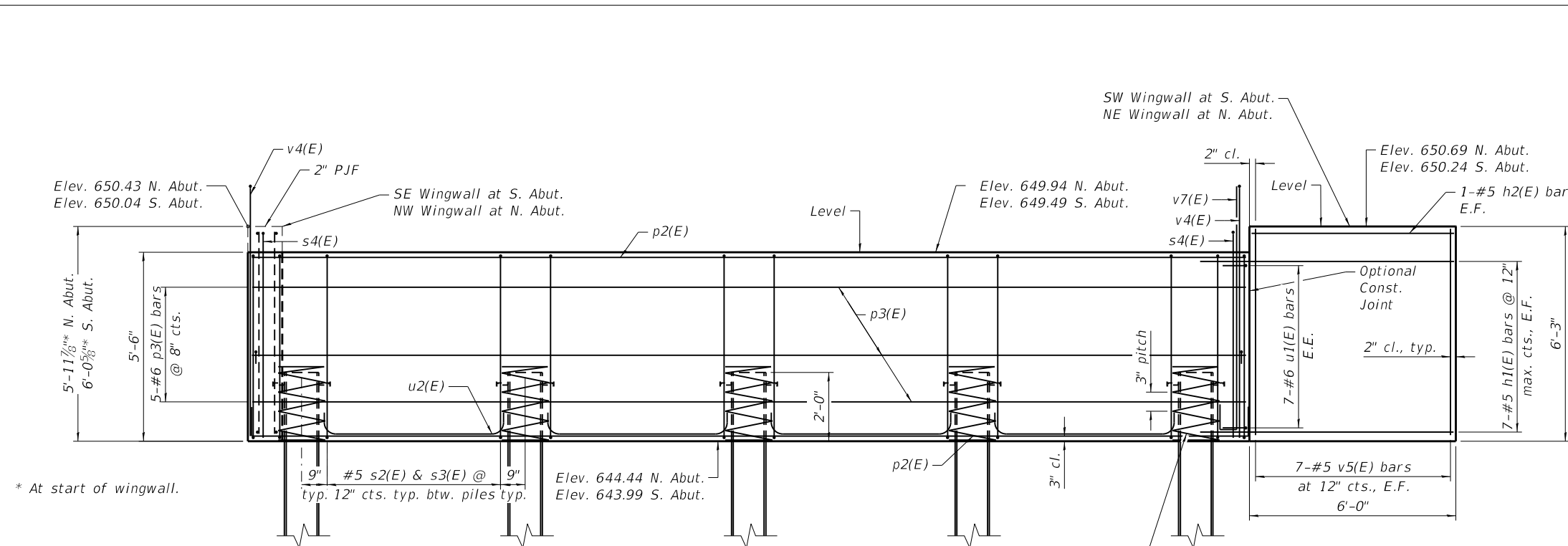
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER DETAILS
 STRUCTURE NO. 049-6851**

SHEET 13 OF 39 SHEETS STA. TO STA.

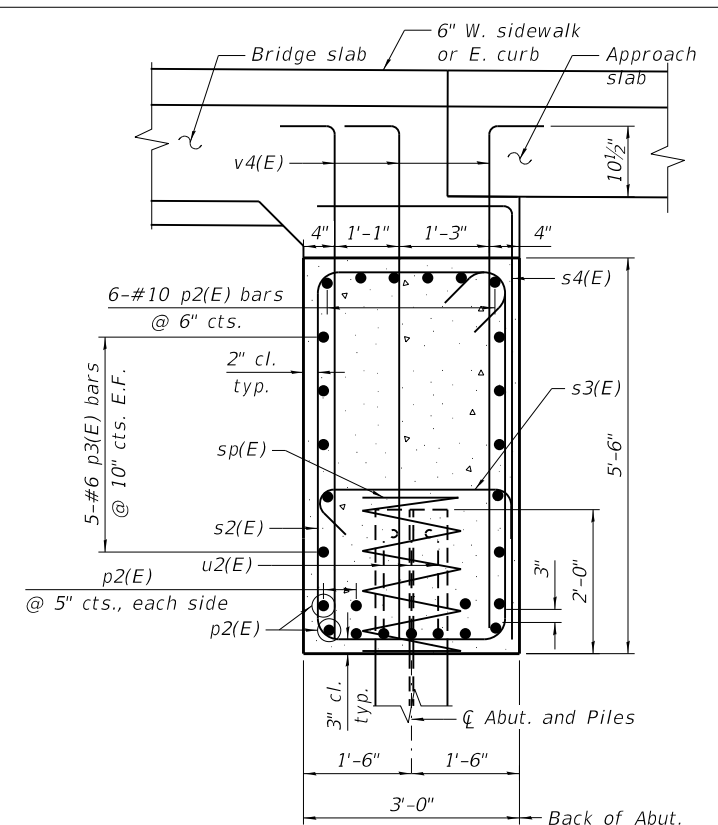
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	45
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



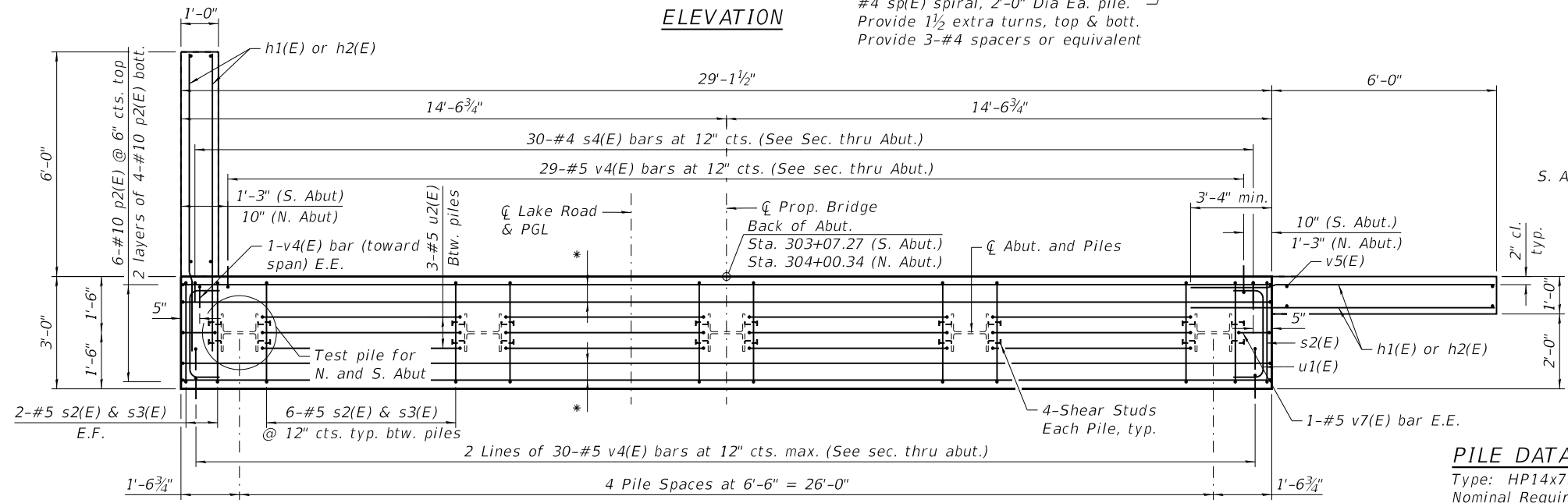
* At start of wingwall.

ELEVATION

#4 sp(E) spiral, 2'-0" Dia Ea. pile.
Provide 1 1/2 extra turns, top & bott.
Provide 3-#4 spacers or equivalent

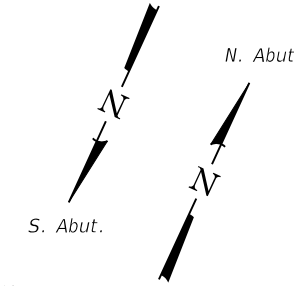


SEC. THRU ABUT.



PLAN

* 2 Layers of 2-#10 p2(E) bars each side (See section through abut.)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	56	#5	9'-2"	—
h2(E)	8	#5	5'-8"	—
p2(E)	28	#10	32'-5"	U
p3(E)	20	#6	28'-10"	—
s2(E)	56	#5	16'-5"	□
s3(E)	56	#5	3'-8"	U
s4(E)	30	#4	9'-7"	U
sp(E)	10	#4	2'-0"	W
u1(E)	28	#5	11'-2"	U
u2(E)	24	#5	4'-2"	U
v4(E)	178	#5	8'-0"	U
v5(E)	28	#5	5'-11"	—
v6(E)	28	#5	5'-8"	—
v7(E)	4	#5	8'-8"	U
Structure Excavation	Cu. Yd.		35	
Concrete Structures	Cu. Yd.		41.2	
Reinforcement Bars, Epoxy Coated	Pound		9,430	
Furnishing Steel Pile HP14x73	Foot		480	
Driving Piles	Foot		480	
Test Steel Pile HP14x73	Each		2	

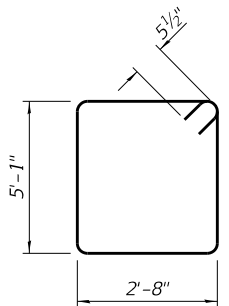
PILE DATA

Type: HP14x73
Nominal Required Bearing: 255 kips
Factored Resistance Available: 140 kips
Est. Length: 60 ft
No. Production Piles: 8
No. Test Piles: 2

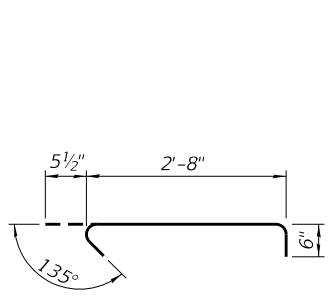
PRECORING ELEVATION LIMITS

Abutment	Pre-coring Elevation
N. Abut.	634.44
S. Abut.	633.99

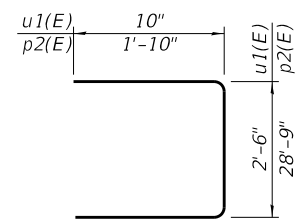
24" Ø holes shall be pre-cored to the elevations shown above or as required by field conditions prior to driving the piles. According to Artical 512.09(C) of the Standard Specifications. The cost of pre-coring shall be included with the cost of Furnishing Steel Piles, HP14x73. Pre-coring holes in the ground shall be backfilled with bentonite with Qu = 1.0 tsf.



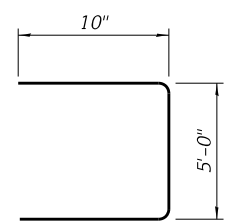
BAR s2(E)



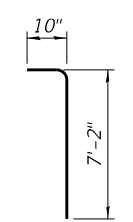
BAR s3(E)



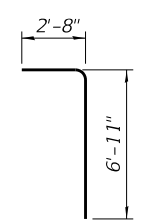
BAR u1(E) & p2(E)



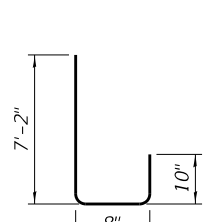
BAR u2(E)



BAR v4(E)



BAR s4(E)



BAR v7(E)

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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)

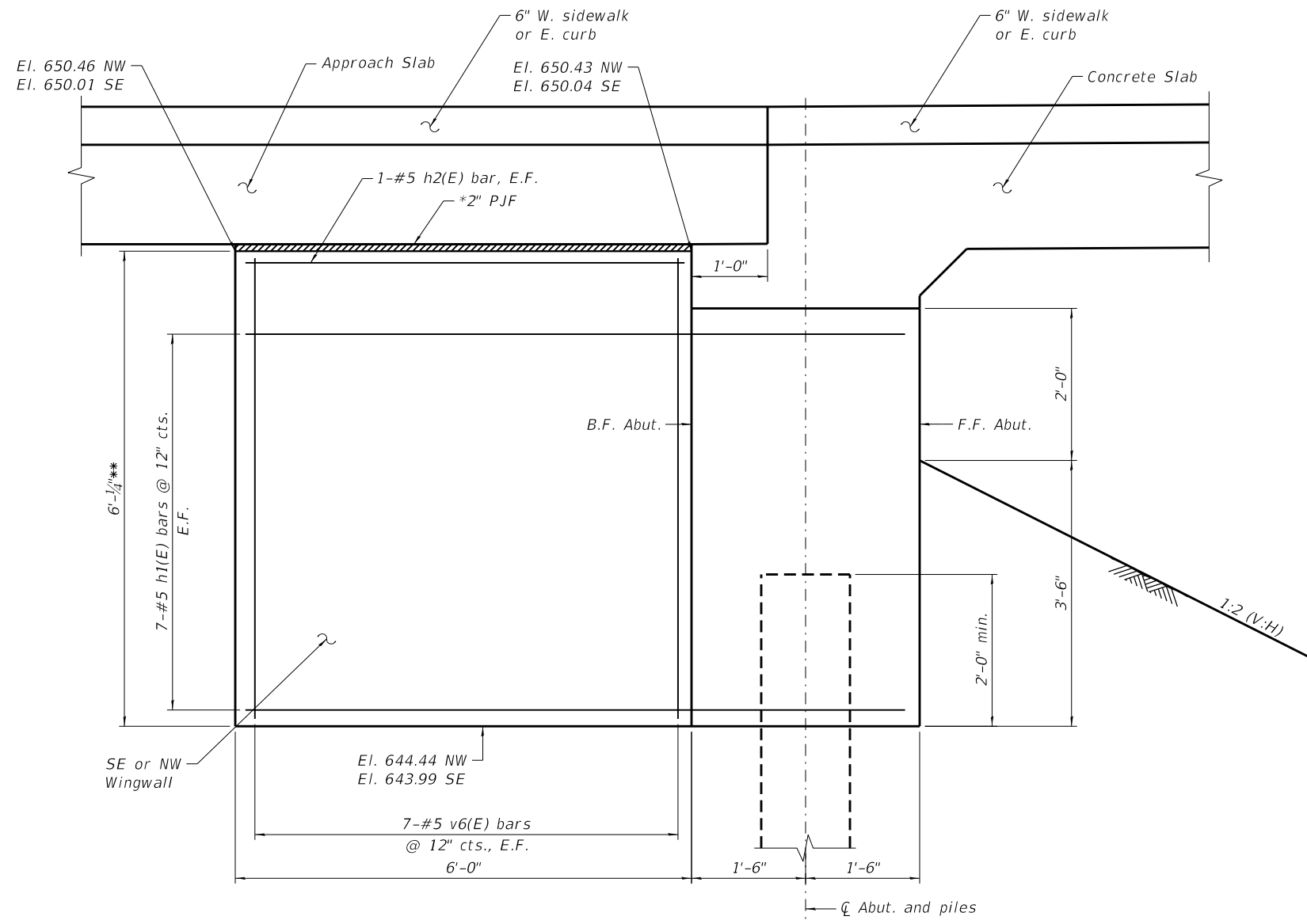


USER NAME	DESIGNED	REVISIONS
Personal	MM	MM
	MM	MM
	RH	MM
		MM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 049-6851

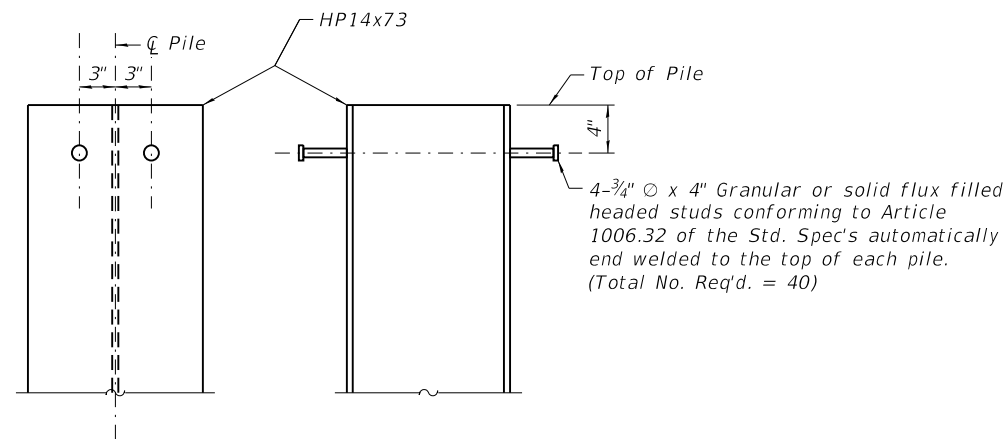
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	46
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



* Adhesive must be compatible with preformed joint material and concrete. Surface preparation shall be conducted in accordance with manufacturer's guidelines. Joint material shall fully extend to surface to prevent concrete pour around joint material.

** At end of wingwall

SE & NW WINGWALLS



PILE SHEAR STUD ANCHORS

Note: The cost of furnishing and installing the shear studs is included with "Furnishing Steel Piles HP14x73".

NOTES:

1. Top of wingwall shall follow vertical profile.

MODEL: Default
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 USER: mm
 DATE: 5/16/2024



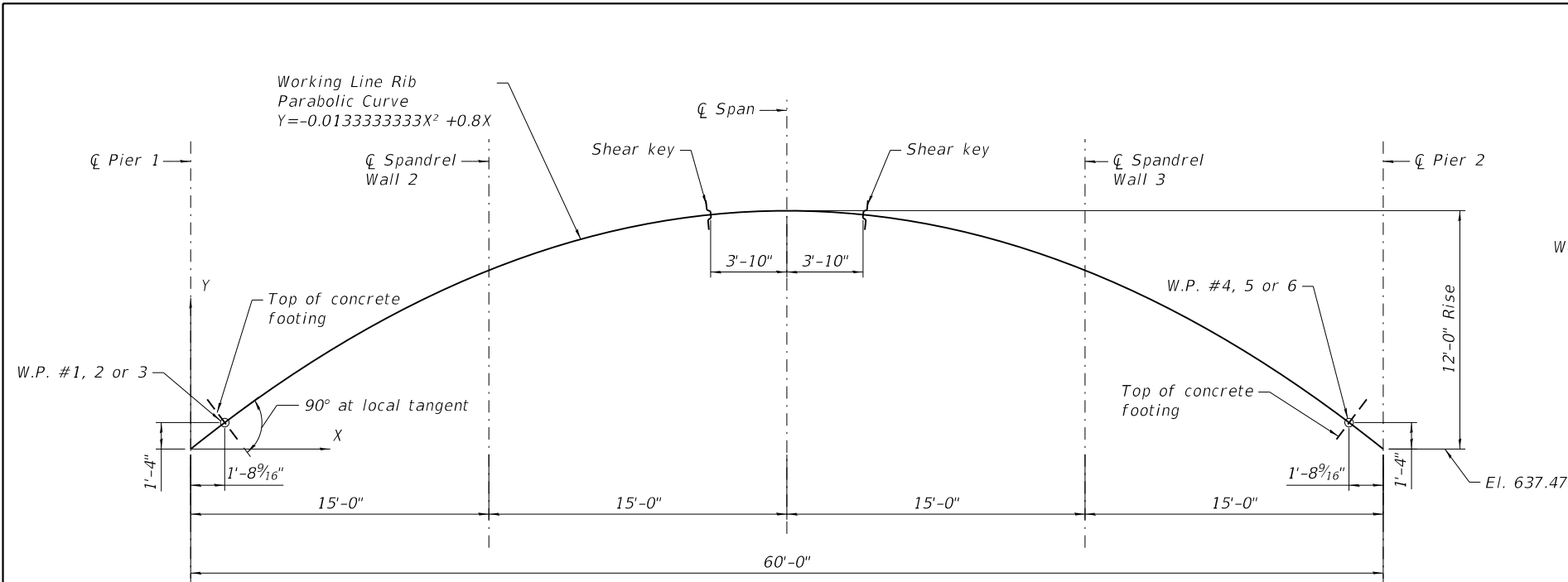
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PLOT DATE	5/16/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT AND WINGWALL DETAILS
STRUCTURE NO. 049-6851**

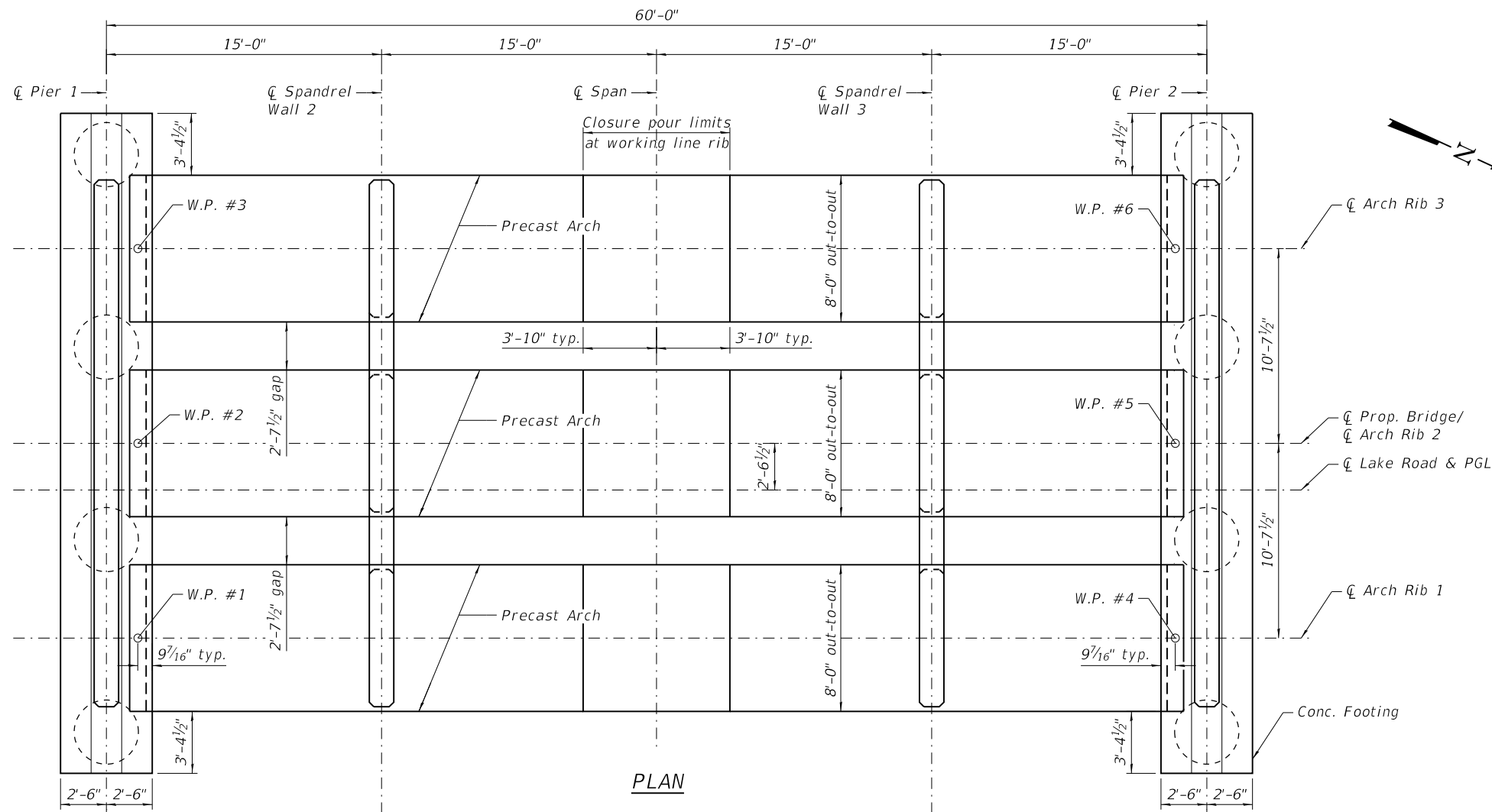
SHEET 15 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	47
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

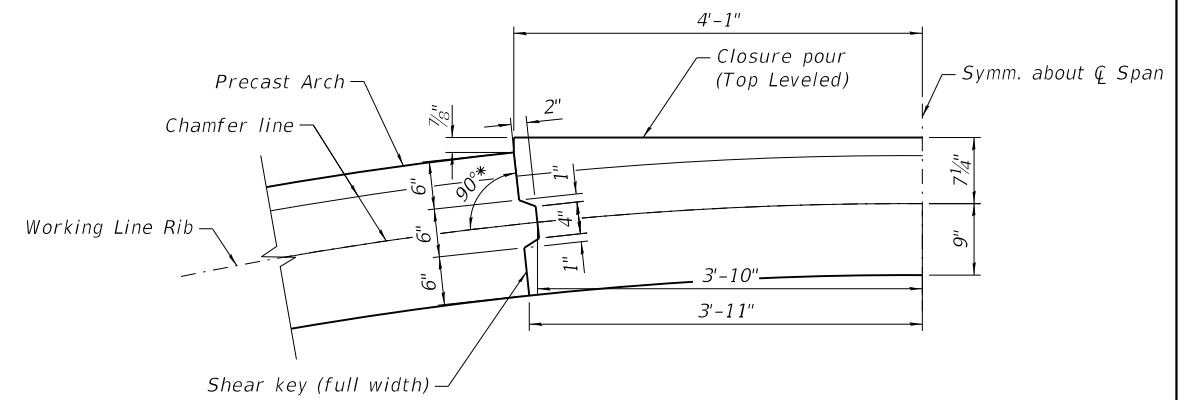


ARCH GEOMETRY

Arch profile shown under no load undeflected condition.



PLAN



DETAIL 1

* Angle measured from local tangent of the working line rib

WORKING POINT LOCATIONS

W.P.	Station	Offset, ft.	Elevation
W.P. #1	303+25.49	08.08 RT	638.80
W.P. #2	303+25.49	02.54 LT	638.80
W.P. #3	303+25.49	13.17 LT	638.80
W.P. #4	303+82.07	08.08 RT	638.80
W.P. #5	303+82.07	02.54 LT	638.80
W.P. #6	303+82.07	13.17 LT	638.80

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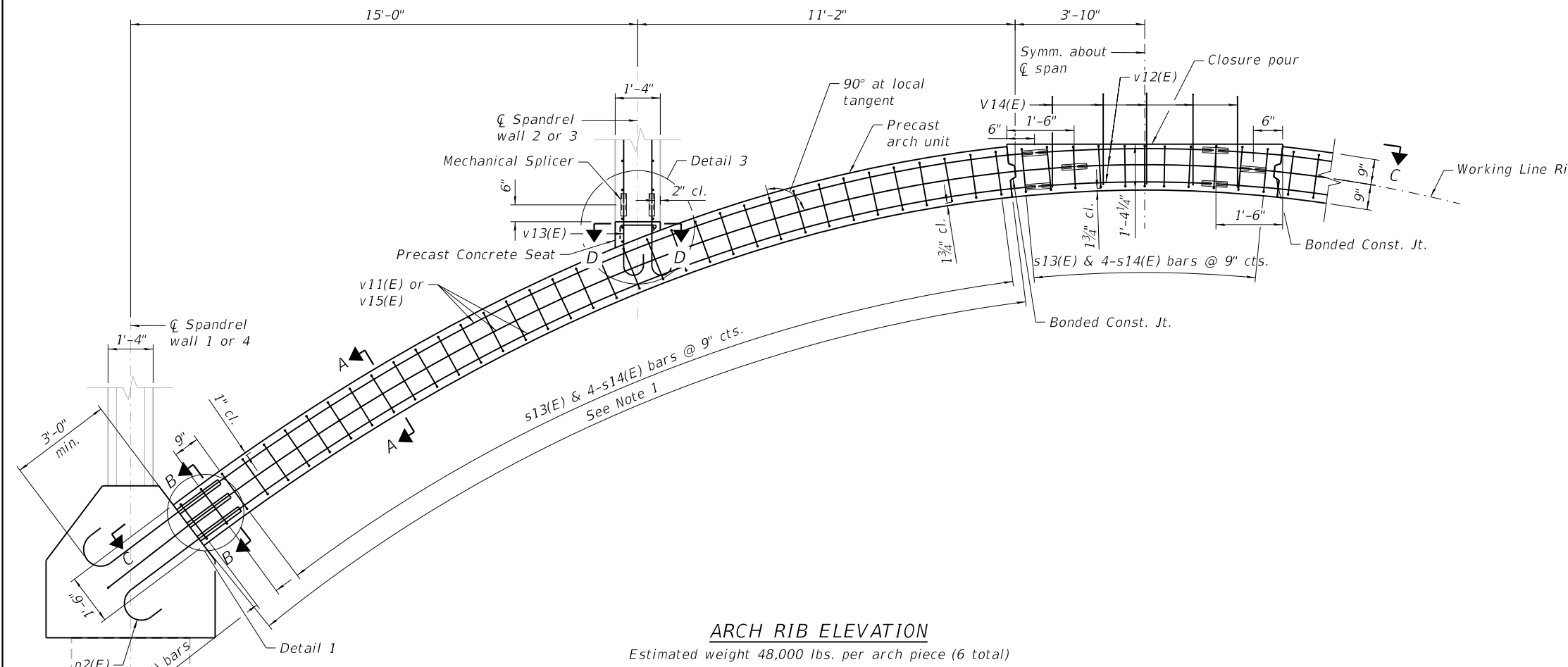
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

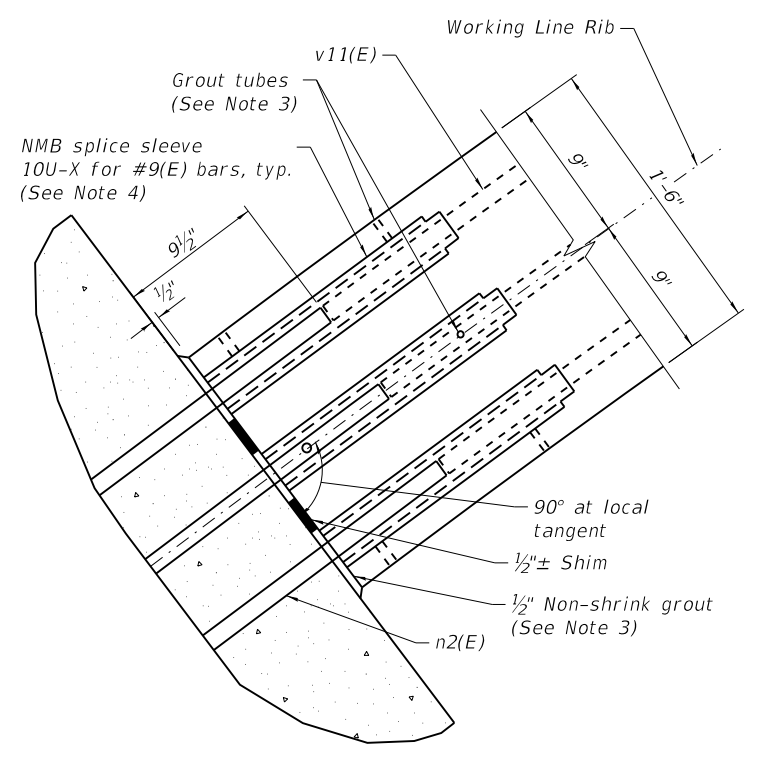
**PRECAST ARCH RIB DETAILS
STRUCTURE NO. 049-6851**

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 61K52
				ILLINOIS FED. AID PROJECT

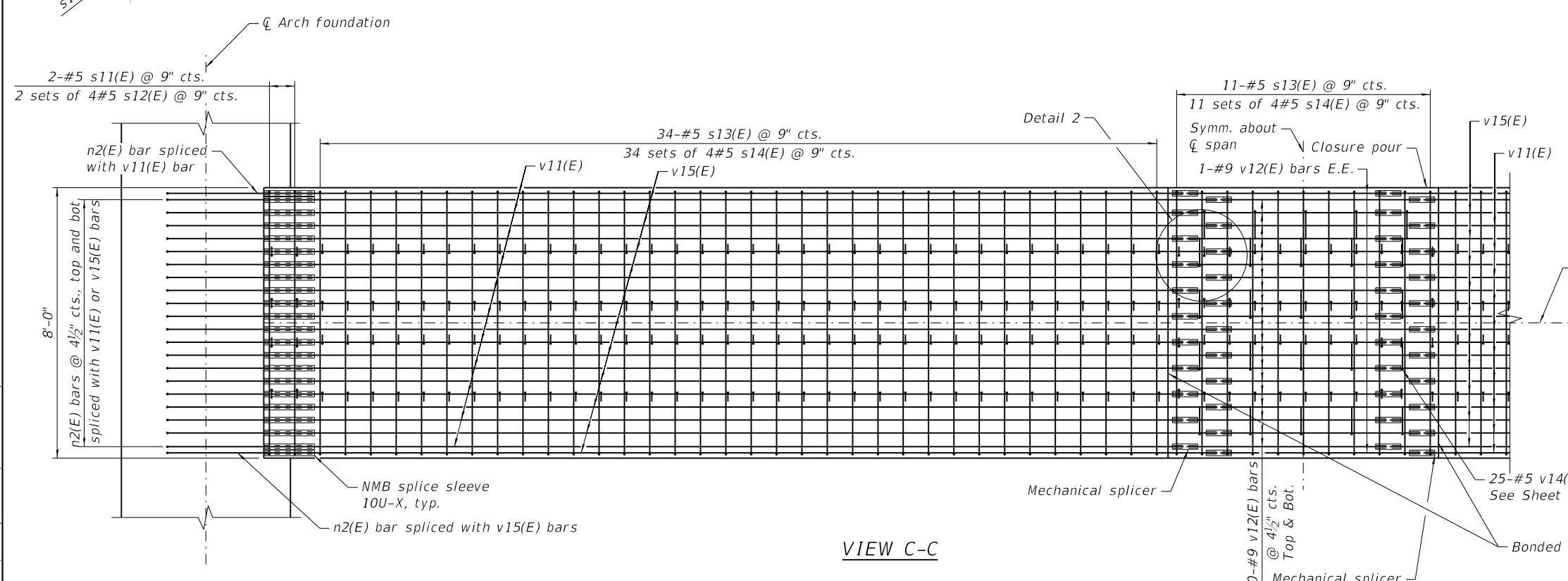
SHEET 16 OF 39 SHEETS STA. TO STA.



ARCH RIB ELEVATION
Estimated weight 48,000 lbs. per arch piece (6 total)



DETAIL 1



VIEW C-C

- NOTES:**
- Cost of precast concrete, epoxy coated reinforcement in the precast arch, NMB splice sleeve 10U-X, shim plates, non-shrink grout and any temporary shoring system required for the precast arch erection are included with FURNISHING AND ERECTING PRECAST CONCRETE ARCH.
 - For Detail 3 see Sheet 51.
 - Non-shrink grout shall conform to ASTM C-1107 with 8,000 psi minimum compressive strength at 28 days.
 - NMB splice sleeves must be placed normal to the end of precast arch in the precise locations per layout shown in SECTION B-B. See Specification FURNISHING AND ERECTING PRECAST CONCRETE ARCH for field grouting requirements.
 - All ends of the precast arch with exposed NMB splice sleeve, v11(E), v13(E) and v15(E) bars must be protected during precast arch being transported.
 - Perform comprehensive survey control over the footing prior to erection of precast arches.
 - Precast arch lifting locations must be identified prior to precast arch fabrication. The structural analysis of arch erection must be signed and sealed by a Structural Engineer licensed in Illinois and submitted to the Engineer for approval.
 - See Sheet 50 for Sections A-A, B-B and D-D and Detail 2.

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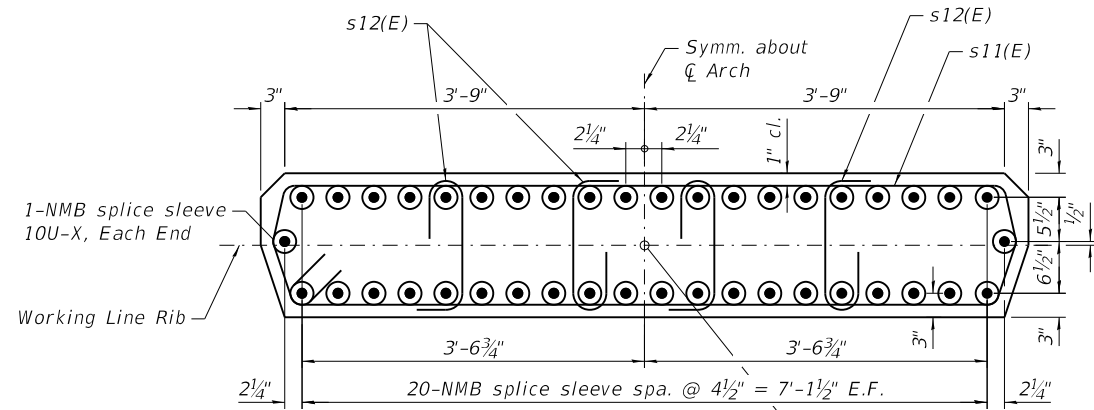


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

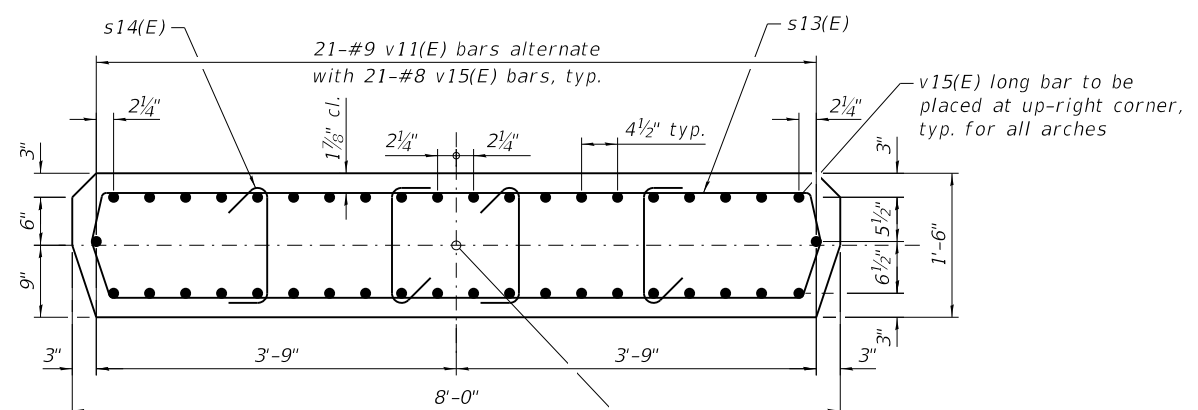
**ARCH PLAN & ELEVATION - 1
STRUCTURE NO. 049-6851**

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

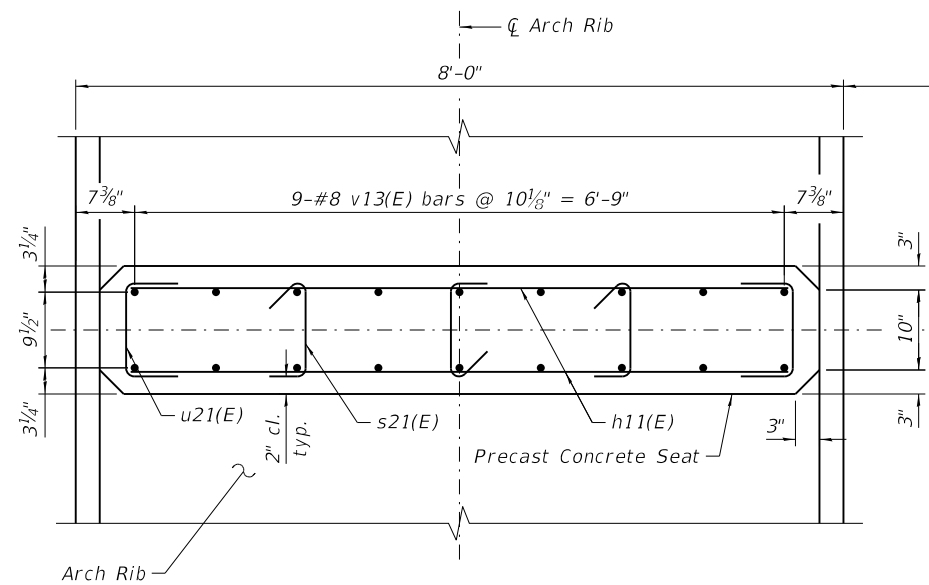


SECTION B-B

* v1(E) Bar centered about NMB splice sleeve 10U-X

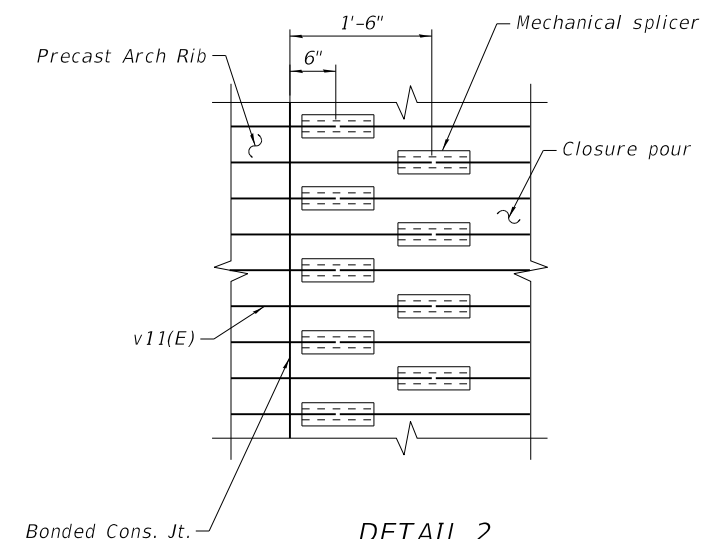
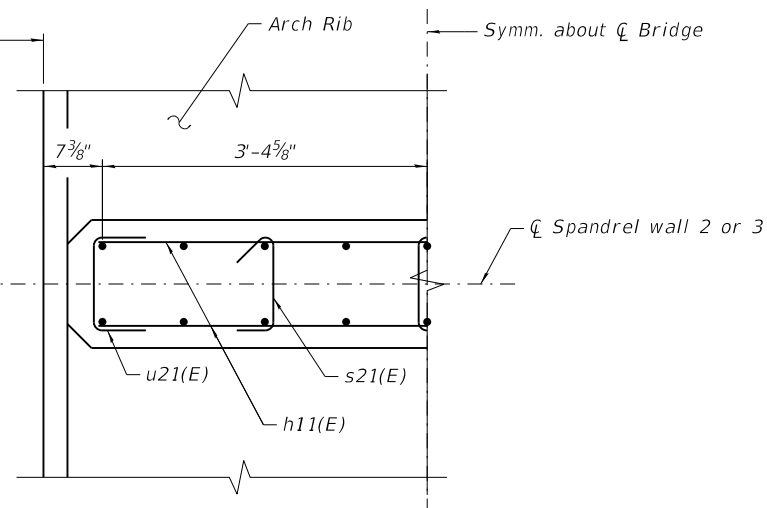


SECTION A-A



SECTION D-D

See location on Sheet 49



DETAIL 2

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 DRAWN: MM
 CHECKED: RH
 DATE: 6/10/2024
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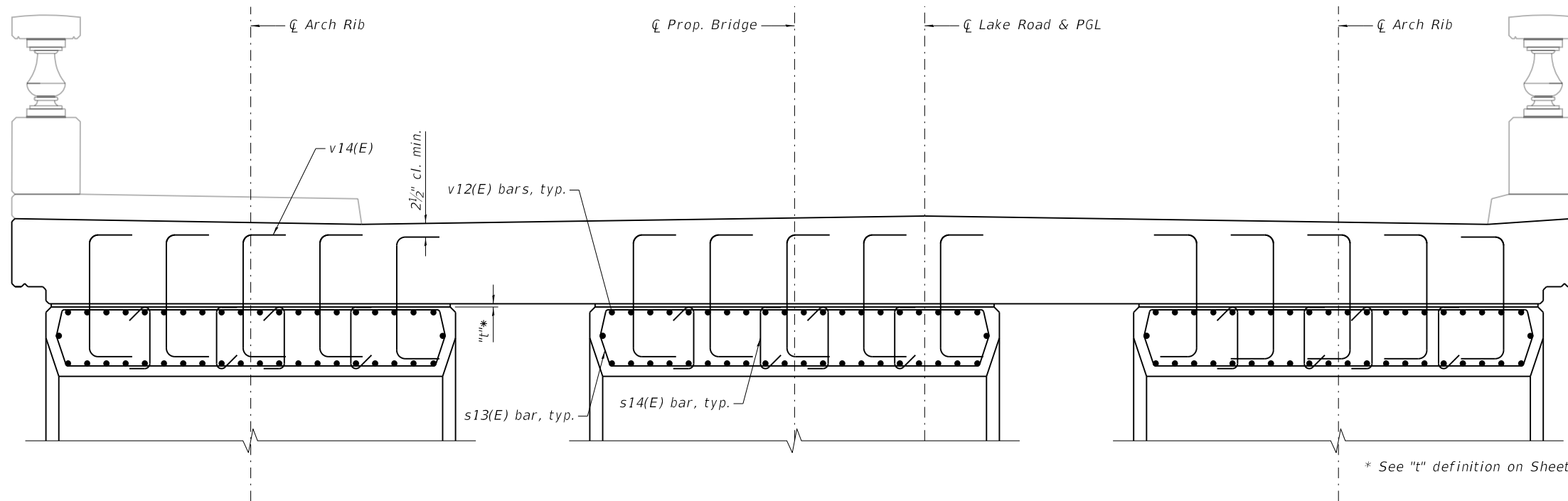
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PLOT SCALE	3/11,998 "/>				
PLOT DATE	5/16/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARCH PLAN & ELEVATION - 2
STRUCTURE NO. 049-6851**

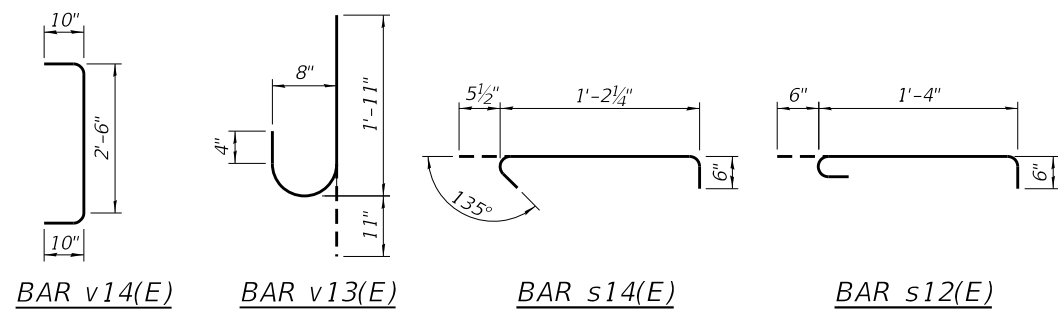
SHEET 18 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	50
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

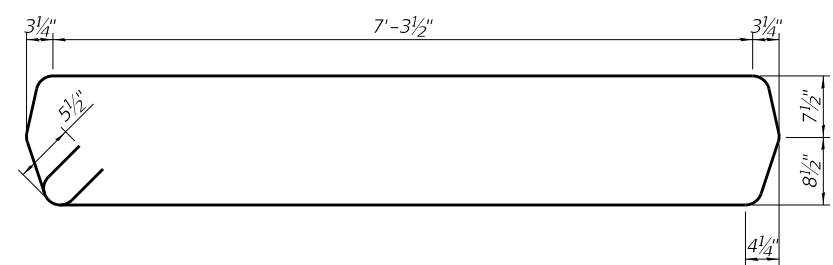


* See "t" definition on Sheet 54.

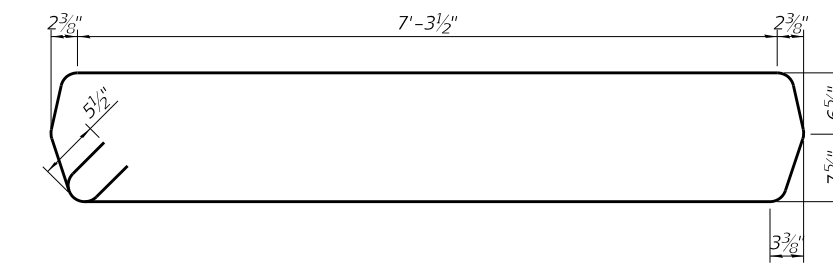
SECTION THRU CLOSURE POUR



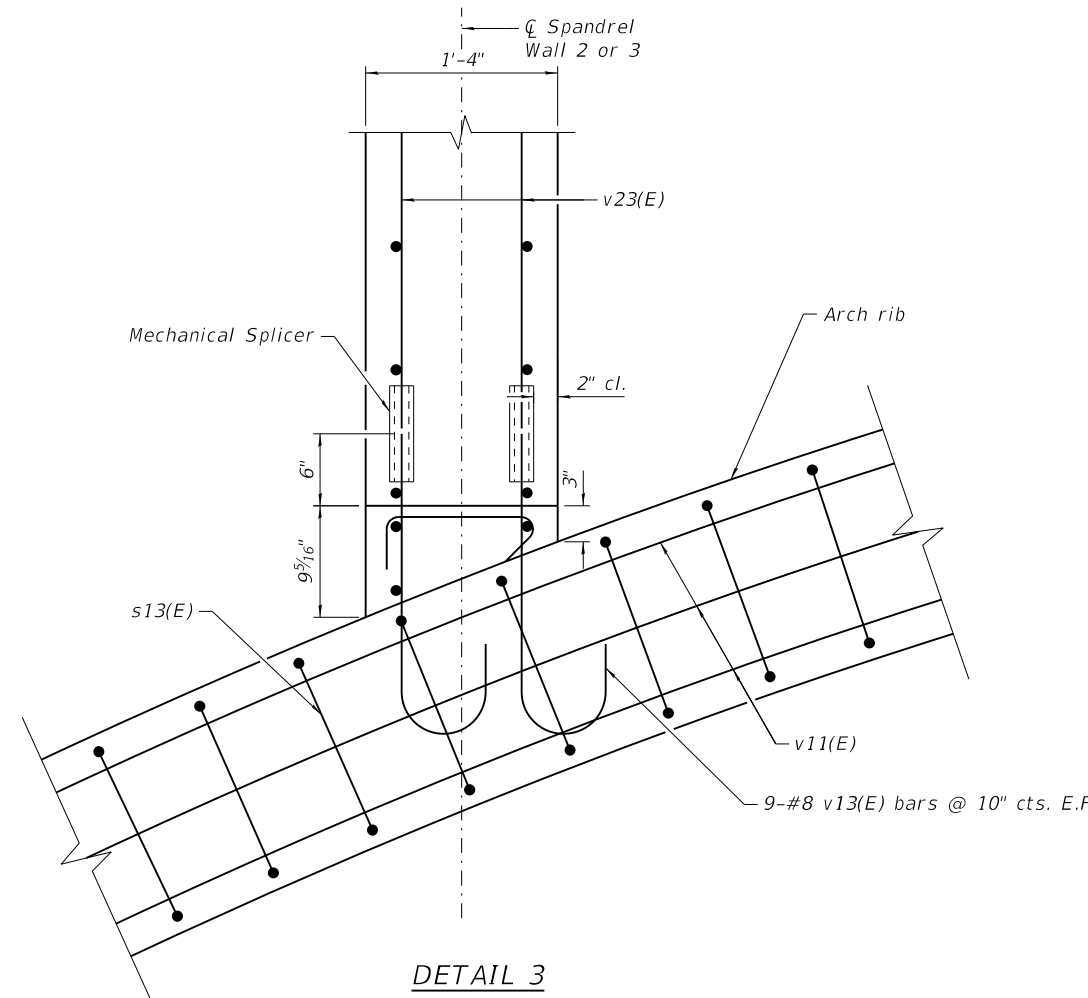
BAR v14(E) BAR v13(E) BAR s14(E) BAR s12(E)



BAR s11(E)



BAR s13(E)



DETAIL 3
For section view see Sheet 52.

BILL OF MATERIAL*

Bar	No.	Size	Length	Shape
s13(E)	33	#5	18'-2"	□
s14(E)	132	#5	2'-2"	└
v12(E)	126	#9	6'-0"	—
v14(E)	25	#5	2'-9"	┌
Concrete Superstructure			Cu. Yd.	10.7
Reinforcement Bars, Epoxy Coated			Pound	3,570
Mechanical Splicers			Each	252

* Bill of material for cast-in-place closure pour only.

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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



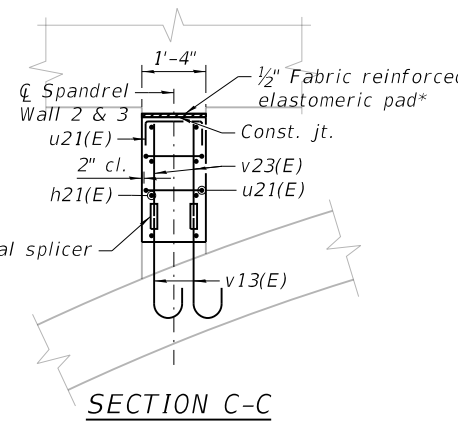
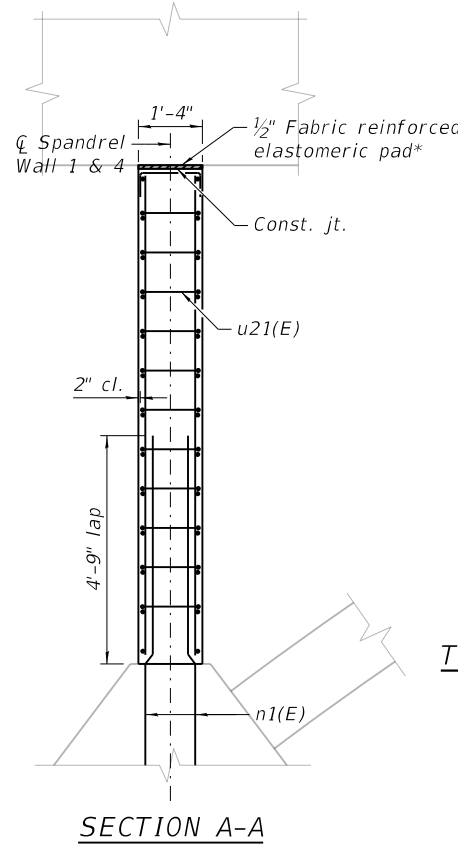
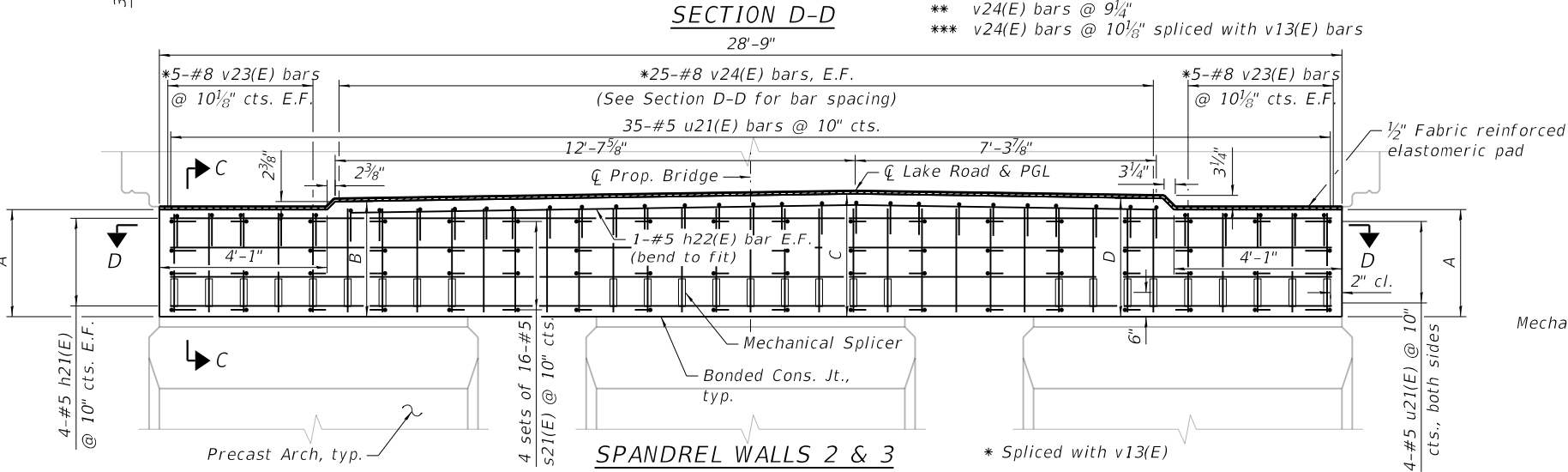
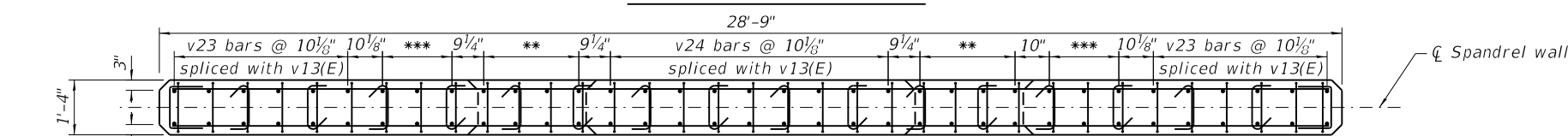
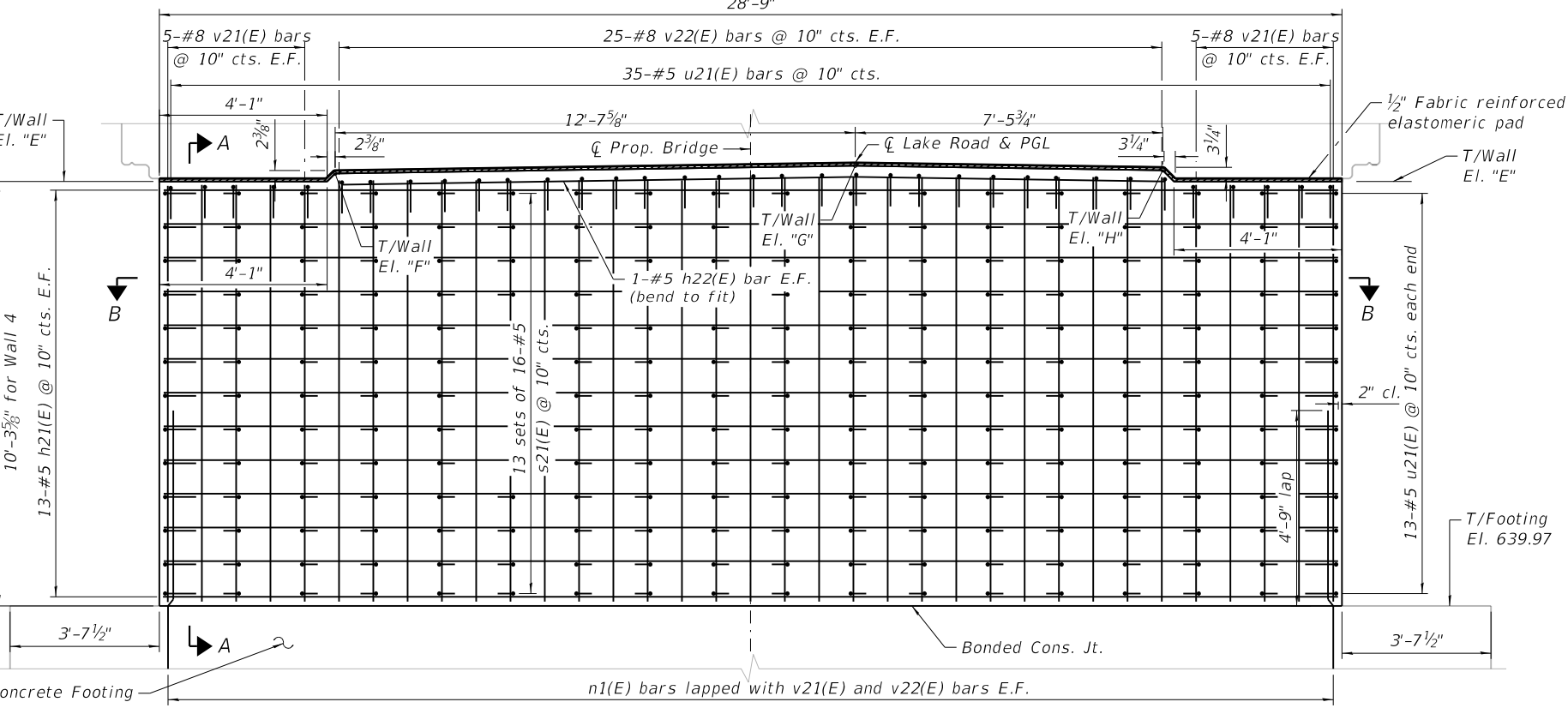
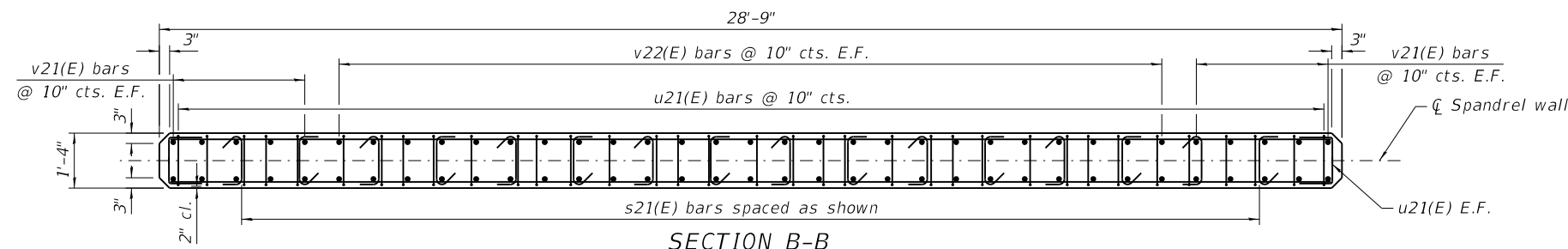
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARCH CROWN CLOSURE POUR DETAILS
STRUCTURE NO. 049-6851

SHEET 19 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	51
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



* Top concrete surface of the spandrel walls shall be finished smooth and applied with approved 2-system epoxy adhesive (hardener and resin). Allow the adhesive to settle. 1/2" fabric reinforced elastomeric pad shall be placed on top of applied epoxy resin within the entire top surface of the spandrel walls after the seat conditions are inspected and approved by the Engineer. Place compressive pressure on top of the elastomeric pad per manufacturer requirements until the epoxy is bonded and settled. Cost of furnishing and installing of 1/2" fabric reinforced elastomeric pad are included with Concrete Structures.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h21(E)	68	#5	28'-5"	—
h22(E)	8	#5	20'-3"	—
s21(E)	544	#5	2'-0"	⌋
u21(E)	68	#5	2'-0"	⌋
v21(E)	40	#8	10'-0"	—
v22(E)	100	#8	10'-2"	—
v23(E)	40	#8	1'-7"	—
v24(E)	100	#8	1'-10"	—
Concrete Structures	Cu. Yd.		37.4	
Mechanical Splicer	Each		108	
Reinforcement Bars, Epoxy Coated	Pound		7,910	

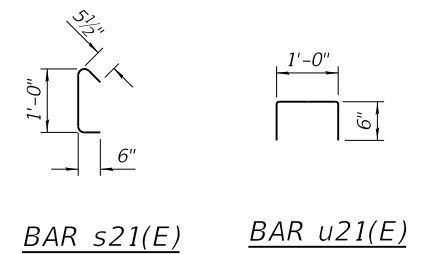
Bill of material for all spandrel walls.

TOP ELEVATION OF SPANDREL WALLS 1 & 4

Elev.	Spandrel Wall 1	Spandrel Wall 4
E	649.95	650.25
F	650.15	650.45
G	650.34	650.64
H	650.22	650.52

HEIGHT OF SPANDREL WALLS 2 & 3

Dimm.	Spandrel Wall 2	Spandrel Wall 3
A	2'-2 2/8"	2'-4 1/4"
B	2'-4 3/4"	2'-6 5/8"
C	2'-7"	2'-8 7/8"
D	2'-5 5/8"	2'-7 1/2"



MODEL: Default
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 PROJECT: Chicago - Lake Road & PGL - Spandrel Wall Details



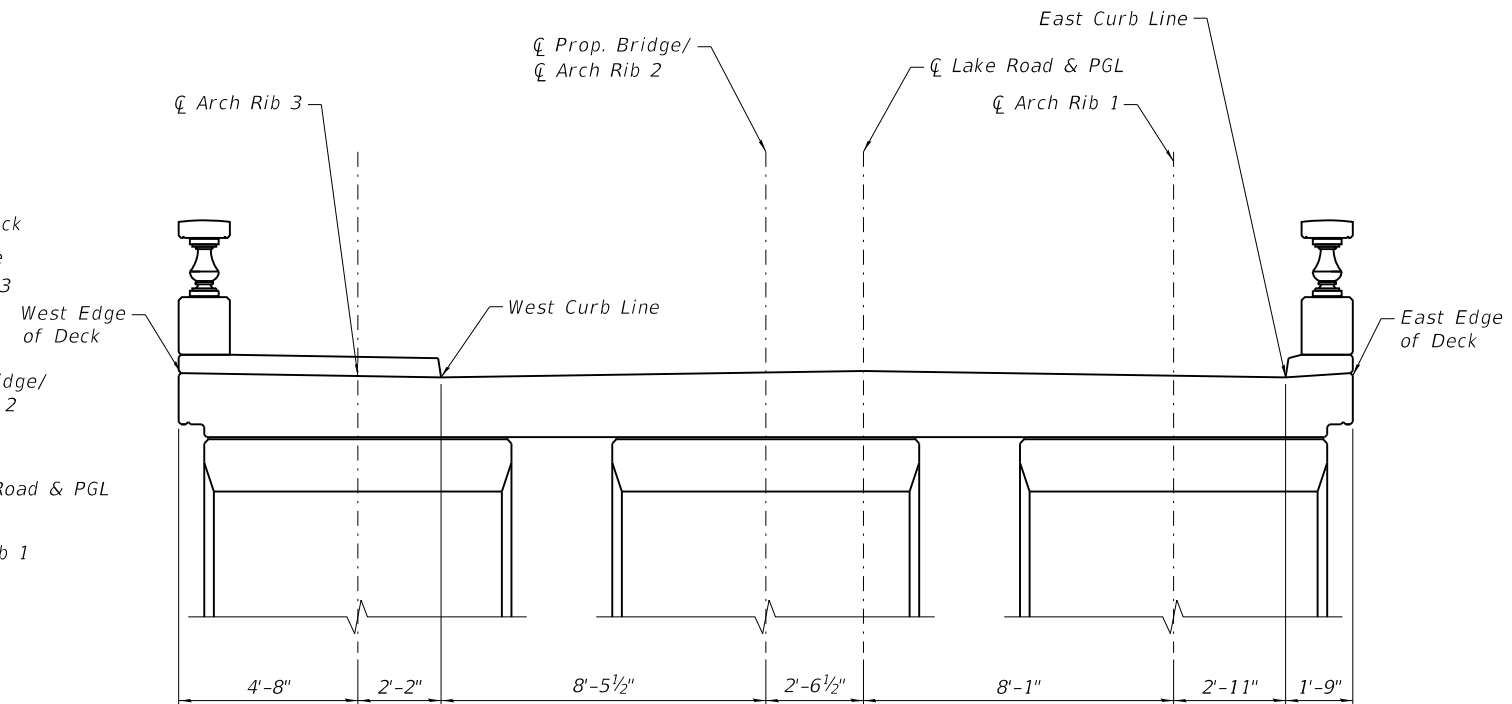
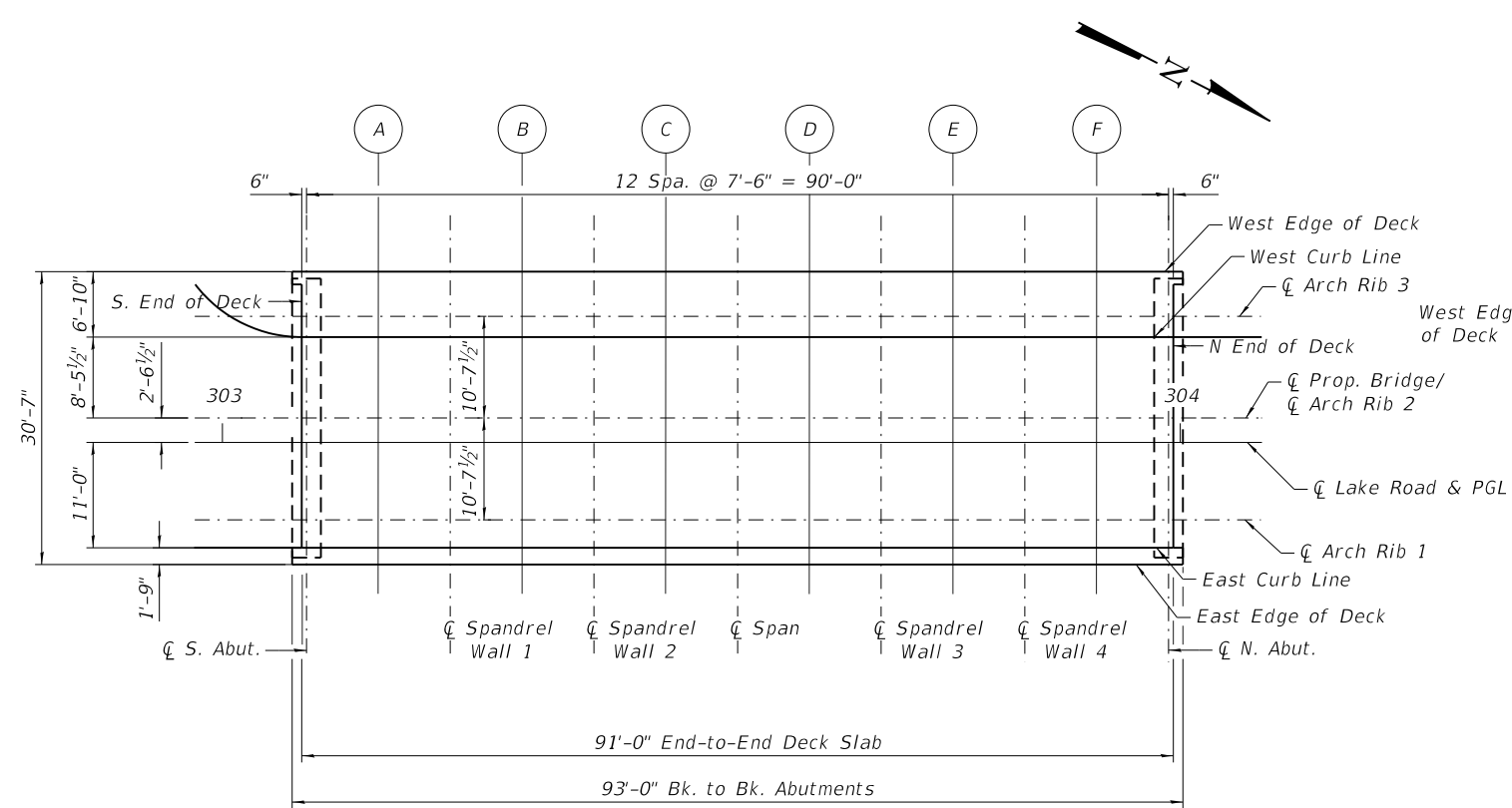
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		DATE	6/10/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPANDREL WALL DETAILS
STRUCTURE NO. 049-6851

SHEET 20 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	52
CONTRACT NO. 61K52			ILLINOIS FED. AID PROJECT	



NOTES:

- 1. Work this Sheet with Sheets 54 & 55.
- 2. Offsets are taken from $\overline{\text{Cl Lake Road \& PGL}}$. Offset of the $\overline{\text{Cl Prop. Bridge}}$ and PGL are $2'-6\frac{1}{2}"$ left of $\overline{\text{Cl Prop. Lake Road}}$.
- 3. The deflection due to the weight of concrete slab and all superimposed dead loads, including weight of sidewalk and concrete ornamental railing, shall be determined by subtracting "Theoretical Grade Elevations" from "Theoretical Grade Elevations Adjusted For Dead Load Deflection".

WEST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
$\overline{\text{Cl S. Abut.}}$	303+08.78	17.83' Lt.	651.58	651.58
A	303+16.28	17.83' Lt.	651.62	651.62
$\overline{\text{Cl Spandrel Wall 1}}$	303+23.78	17.83' Lt.	651.66	651.66
B	303+31.28	17.83' Lt.	651.69	651.72
$\overline{\text{Cl Spandrel Wall 2}}$	303+38.78	17.83' Lt.	651.73	651.79
C	303+46.28	17.83' Lt.	651.77	651.86
$\overline{\text{Cl Span}}$	303+53.78	17.83' Lt.	651.81	651.90
D	303+61.28	17.83' Lt.	651.84	651.93
$\overline{\text{Cl Spandrel Wall 3}}$	303+68.78	17.83' Lt.	651.88	651.94
E	303+76.28	17.83' Lt.	651.92	651.95
$\overline{\text{Cl Spandrel Wall 4}}$	303+83.78	17.83' Lt.	651.96	651.96
F	303+91.28	17.83' Lt.	651.99	651.99
$\overline{\text{Cl N. Abut.}}$	303+98.78	17.83' Lt.	652.03	652.03

$\overline{\text{Cl ARCH RIB 3}}$

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
$\overline{\text{Cl S. Abut.}}$	303+08.78	13.17' Lt.	651.50	651.50
A	303+16.28	13.17' Lt.	651.54	651.54
$\overline{\text{Cl Spandrel Wall 1}}$	303+23.78	13.17' Lt.	651.58	651.58
B	303+31.28	13.17' Lt.	651.62	651.66
$\overline{\text{Cl Spandrel Wall 2}}$	303+38.78	13.17' Lt.	651.65	651.74
C	303+46.28	13.17' Lt.	651.69	651.82
$\overline{\text{Cl Span}}$	303+53.78	13.17' Lt.	651.73	651.87
D	303+61.28	13.17' Lt.	651.77	651.90
$\overline{\text{Cl Spandrel Wall 3}}$	303+68.78	13.17' Lt.	651.80	651.89
E	303+76.28	13.17' Lt.	651.84	651.88
$\overline{\text{Cl Spandrel Wall 4}}$	303+83.78	13.17' Lt.	651.88	651.88
F	303+91.28	13.17' Lt.	651.92	651.92
$\overline{\text{Cl N. Abut.}}$	303+98.78	13.17' Lt.	651.95	651.95

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
$\overline{\text{Cl S. Abut.}}$	303+08.78	11.00' Lt.	651.47	651.47
A	303+16.28	11.00' Lt.	651.50	651.50
$\overline{\text{Cl Spandrel Wall 1}}$	303+23.78	11.00' Lt.	651.54	651.54
B	303+31.28	11.00' Lt.	651.58	651.61
$\overline{\text{Cl Spandrel Wall 2}}$	303+38.78	11.00' Lt.	651.62	651.67
C	303+46.28	11.00' Lt.	651.65	651.74
$\overline{\text{Cl Span}}$	303+53.78	11.00' Lt.	651.69	651.78
D	303+61.28	11.00' Lt.	651.73	651.82
$\overline{\text{Cl Spandrel Wall 3}}$	303+68.78	11.00' Lt.	651.77	651.82
E	303+76.28	11.00' Lt.	651.80	651.83
$\overline{\text{Cl Spandrel Wall 4}}$	303+83.78	11.00' Lt.	651.84	651.84
F	303+91.28	11.00' Lt.	651.88	651.88
$\overline{\text{Cl N. Abut.}}$	303+98.78	11.00' Lt.	651.92	651.92

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TOP OF DECK ELEVATION PLAN & TABLES 1
STRUCTURE NO. 049-6851

MUN. RTE. 1370	SECTION 12-00094-00-BR	COUNTY LAKE	TOTAL SHEETS 86	SHEET NO. 53
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

SHEET 21 OF 39 SHEETS STA. TO STA.

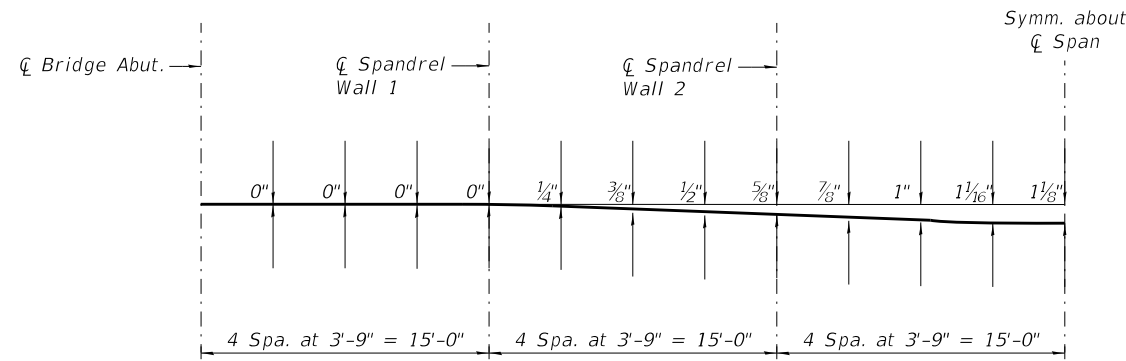
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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)

Lochner
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)

USER NAME	Personal
PLOT SCALE	20.00' / in.
PLOT DATE	5/16/2024

DESIGNED	MM
DRAWN	MM
CHECKED	RH
DATE	6/10/2024

REVISED	-
REVISED	-
REVISED	-
REVISED	-

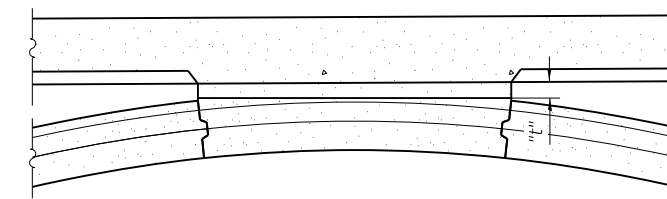
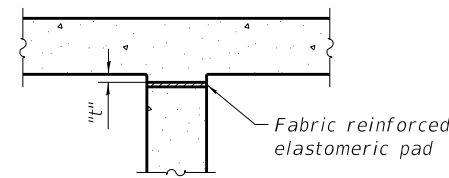


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete slab, sidewalk and ornamental railing 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 in the tables.



To determine "t": After all precast arches have been erected and Spandrel Wall 2 & 3 and precast arch closure pour have been completed, elevations at top of 1/2" neoprene sheet placed on top of the spandrel wall 2 & 3, and at top of the arch closure pour shall be surveyed. 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 of the Spandrel Wall 2 & 3, and at top of the arch closure pour.

FILLET HEIGHTS

NOTES:

1. Work this Sheet with Sheets 53 & 55.
2. Offsets are taken from CL Lake Road & PGL. Offset of the CL Prop. Bridge and PGL are 2'-6 1/2" left of CL Prop. Lake Road.
3. The deflection due to the weight of concrete slab and all superimposed dead loads, including weight of sidewalk and concrete ornamental railing, shall be determined by subtracting "Theoretical Grade Elevations" from "Theoretical Grade Elevations Adjusted For Dead Load Deflection".

CL PROP. BRIDGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL S. Abut.	303+08.78	2.54' lt.	651.60	651.60
A	303+16.28	2.54' lt.	651.63	651.63
CL Spandrel Wall 1	303+23.78	2.54' lt.	651.67	651.67
B	303+31.28	2.54' lt.	651.71	651.74
CL Spandrel Wall 2	303+38.78	2.54' lt.	651.75	651.80
C	303+46.28	2.54' lt.	651.78	651.87
CL Span	303+53.78	2.54' lt.	651.82	651.91
D	303+61.28	2.54' lt.	651.86	651.95
CL Spandrel Wall 3	303+68.78	2.54' lt.	651.90	651.95
E	303+76.28	2.54' lt.	651.93	651.96
CL Spandrel Wall 4	303+83.78	2.54' lt.	651.97	651.97
F	303+91.28	2.54' lt.	652.01	652.01
CL N. Abut.	303+98.78	2.54' lt.	652.05	652.05

CL LAKE ROAD & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL S. Abut.	303+08.78	0	651.63	651.63
A	303+16.28	0	651.67	651.67
CL Spandrel Wall 1	303+23.78	0	651.71	651.71
B	303+31.28	0	651.75	651.77
CL Spandrel Wall 2	303+38.78	0	651.78	651.84
C	303+46.28	0	651.82	651.91
CL Span	303+53.78	0	651.86	651.95
D	303+61.28	0	651.90	651.98
CL Spandrel Wall 3	303+68.78	0	651.93	651.99
E	303+76.28	0	651.97	652.00
CL Spandrel Wall 4	303+83.78	0	652.01	652.01
F	303+91.28	0	652.05	652.05
CL N. Abut.	303+98.78	0	652.08	652.08

CL ARCH RIB 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
CL S. Abut.	303+08.78	8.08' rt.	651.51	651.51
A	303+16.28	8.08' rt.	651.55	651.55
CL Spandrel Wall 1	303+23.78	8.08' rt.	651.59	651.59
B	303+31.28	8.08' rt.	651.63	651.67
CL Spandrel Wall 2	303+38.78	8.08' rt.	651.66	651.75
C	303+46.28	8.08' rt.	651.70	651.83
CL Span	303+53.78	8.08' rt.	651.74	651.88
D	303+61.28	8.08' rt.	651.78	651.90
CL Spandrel Wall 3	303+68.78	8.08' rt.	651.81	651.90
E	303+76.28	8.08' rt.	651.85	651.89
CL Spandrel Wall 4	303+83.78	8.08' rt.	651.89	651.89
F	303+91.28	8.08' rt.	651.93	651.93
CL N. Abut.	303+98.78	8.08' rt.	651.96	651.96

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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



USER NAME	Personal	DESIGNED	MM	REVISED	-
		DRAWN	MM	REVISED	-
PLOT SCALE	19.999' / in.	CHECKED	RH	REVISED	-
PLOT DATE	5/16/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATION PLAN & TABLES 2
STRUCTURE NO. 049-6851**

SHEET 22 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	54
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☉ S. Abut.	303+08.78	11.00' rt.	651.47	651.47
A	303+16.28	11.00' rt.	651.50	651.50
☉ Spandrel Wall 1	303+23.78	11.00' rt.	651.54	651.54
B	303+31.28	11.00' rt.	651.58	651.61
☉ Spandrel Wall 2	303+38.78	11.00' rt.	651.62	651.67
C	303+46.28	11.00' rt.	651.65	651.74
☉ Span	303+53.78	11.00' rt.	651.69	651.78
D	303+61.28	11.00' rt.	651.73	651.82
☉ Spandrel Wall 3	303+68.78	11.00' rt.	651.77	651.82
E	303+76.28	11.00' rt.	651.80	651.83
☉ Spandrel Wall 4	303+83.78	11.00' rt.	651.84	651.84
F	303+91.28	11.00' rt.	651.88	651.88
☉ N. Abut.	303+98.78	11.00' rt.	651.92	651.92

EAST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
☉ S. Abut.	303+08.78	12.75' rt.	651.58	651.58
A	303+16.28	12.75' rt.	651.62	651.62
☉ Spandrel Wall 1	303+23.78	12.75' rt.	651.66	651.66
B	303+31.28	12.75' rt.	651.69	651.72
☉ Spandrel Wall 2	303+38.78	12.75' rt.	651.73	651.79
C	303+46.28	12.75' rt.	651.77	651.86
☉ Span	303+53.78	12.75' rt.	651.81	651.90
D	303+61.28	12.75' rt.	651.84	651.93
☉ Spandrel Wall 3	303+68.78	12.75' rt.	651.88	651.94
E	303+76.28	12.75' rt.	651.92	651.95
☉ Spandrel Wall 4	303+83.78	12.75' rt.	651.96	651.96
F	303+91.28	12.75' rt.	651.99	651.99
☉ N. Abut.	303+98.78	12.75' rt.	652.03	652.03

NOTES:

1. Work this Sheet with Sheets 53 & 54.
2. Offsets are taken from ☉ Lake Road & PGL. Offset of the ☉ Prop. Bridge and PGL are 2'-6½" left of ☉ Prop. Lake Road.
3. The deflection due to the weight of concrete slab and all superimposed dead loads, including weight of sidewalk and concrete ornamental railing, shall be determined by subtracting "Theoretical Grade Elevations" from "Theoretical Grade Elevations Adjusted For Dead Load Deflection".

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DRAWN	MM	CHECKED	RH	REVISED	-
PLOT SCALE	19.999' / in.	DATE	6/10/2024	REVISED	-
PLOT DATE	5/16/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF DECK ELEVATION PLAN & TABLES 3
STRUCTURE NO. 049-6851**

SHEET 23 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	55
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pvmt.	302+93.28	16.50' lt.	651.31
A1	303+00.78	16.50' lt.	651.45
N. End of S. Appr. Pvmt. / S. End of Deck	303+08.28	16.50' lt.	651.55

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pvmt.	302+93.28	-	-
A1	303+00.78	13.18' lt	651.40
N. End of S. Appr. Pvmt. / S. End of Deck	303+08.28	11.00' lt	651.47

CL PROP. BRIDGE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pvmt.	302+93.28	2.54' lt.	651.52
A1	303+00.78	2.54' lt.	651.56
N. End of S. Appr. Pvmt. / S. End of Deck	303+08.28	2.54' lt.	651.59

CL LAKE ROAD & PGL

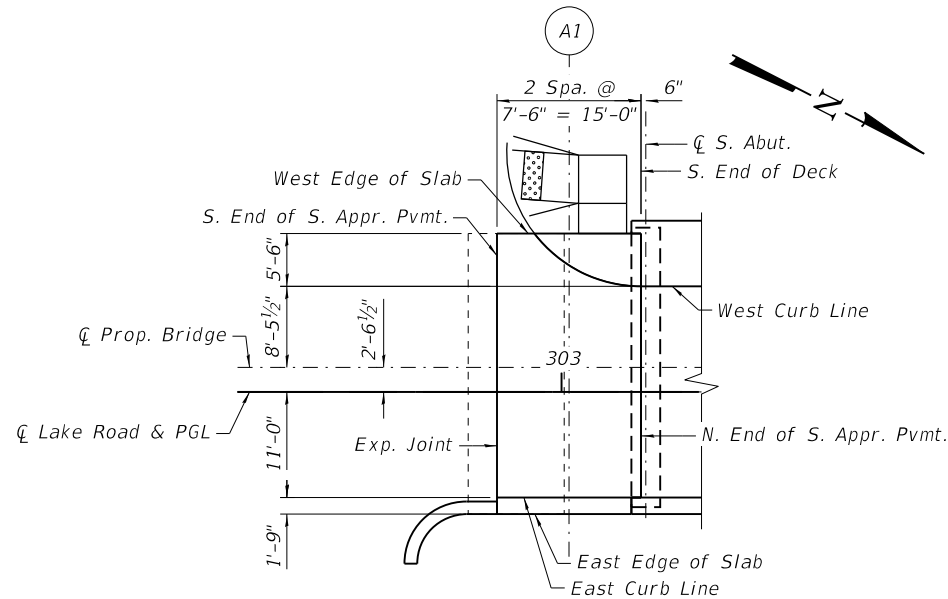
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pvmt.	302+93.28	0	651.56
A1	303+00.78	0	651.59
N. End of S. Appr. Pvmt. / S. End of Deck	303+08.28	0	651.63

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pvmt.	302+93.28	11.00' rt.	651.39
A1	303+00.78	11.00' rt.	651.43
N. End of S. Appr. Pvmt. / S. End of Deck	303+08.28	11.00' rt.	651.46

EAST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr. Pvmt.	302+93.28	12.75' rt.	651.50
A1	303+00.78	12.75' rt.	651.54
N. End of S. Appr. Pvmt. / S. End of Deck	303+08.28	12.75' rt.	651.58



PLAN

South Approach

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USER NAME	Personal	DESIGNED	MM	REVISED	-
		DRAWN	MM	REVISED	-
PLOT SCALE	19.999' / in.	CHECKED	RH	REVISED	-
PLOT DATE	5/16/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB PLAN & TABLES
STRUCTURE NO. 049-6851**

SHEET 24 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	56
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pvmt. / N. End of Deck	303+99.28	17.83' Lt.	652.03
F1	304+06.78	17.83' Lt.	652.07
N. End of N. Appr. Pvmt.	304+14.28	17.83' Lt.	652.11

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pvmt. / N. End of Deck	303+99.28	11.00' Lt.	651.92
F1	304+06.78	11.00' Lt.	651.96
N. End of N. Appr. Pvmt.	304+14.28	11.00' Lt.	651.99

CL BRIDGE

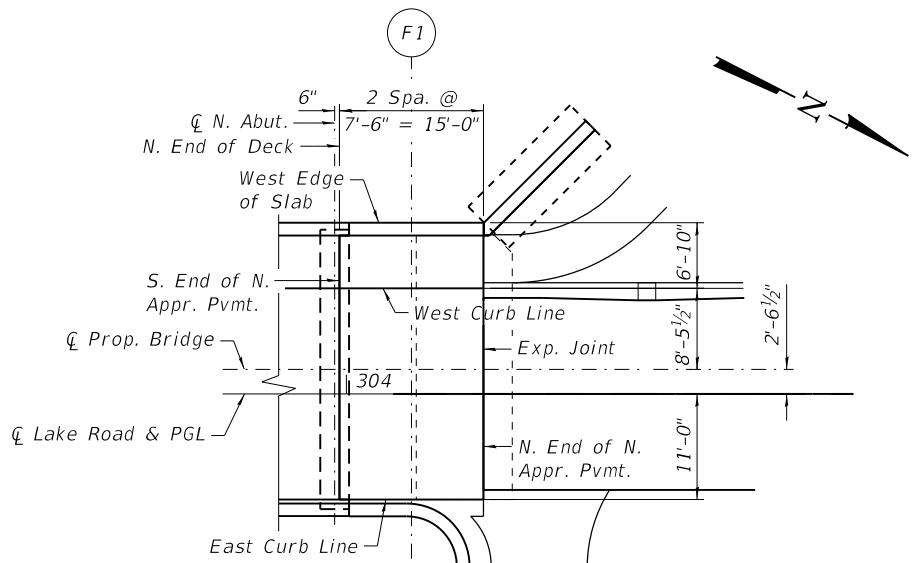
Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pvmt. / N. End of Deck	303+99.28	2.54' Lt.	652.05
F1	304+06.78	2.54' Lt.	652.09
N. End of N. Appr. Pvmt.	304+14.28	2.54' Lt.	652.12

CL LAKE ROAD & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pvmt. / N. End of Deck	303+99.28	0	652.09
F1	304+06.78	0	652.12
N. End of N. Appr. Pvmt.	304+14.28	0	652.16

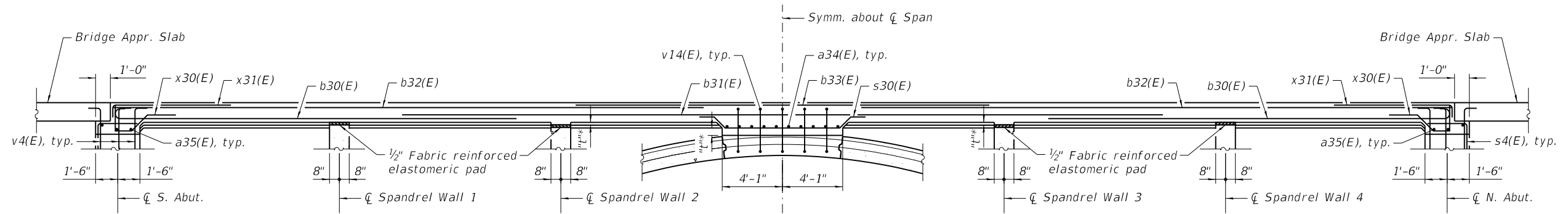
EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Appr. Pvmt. / N. End of Deck	303+99.28	11.00' rt.	651.92
F1	304+06.78	11.00' rt.	651.96
N. End of N. Appr. Pvmt.	304+14.28	11.00' rt.	651.99



PLAN
North Approach

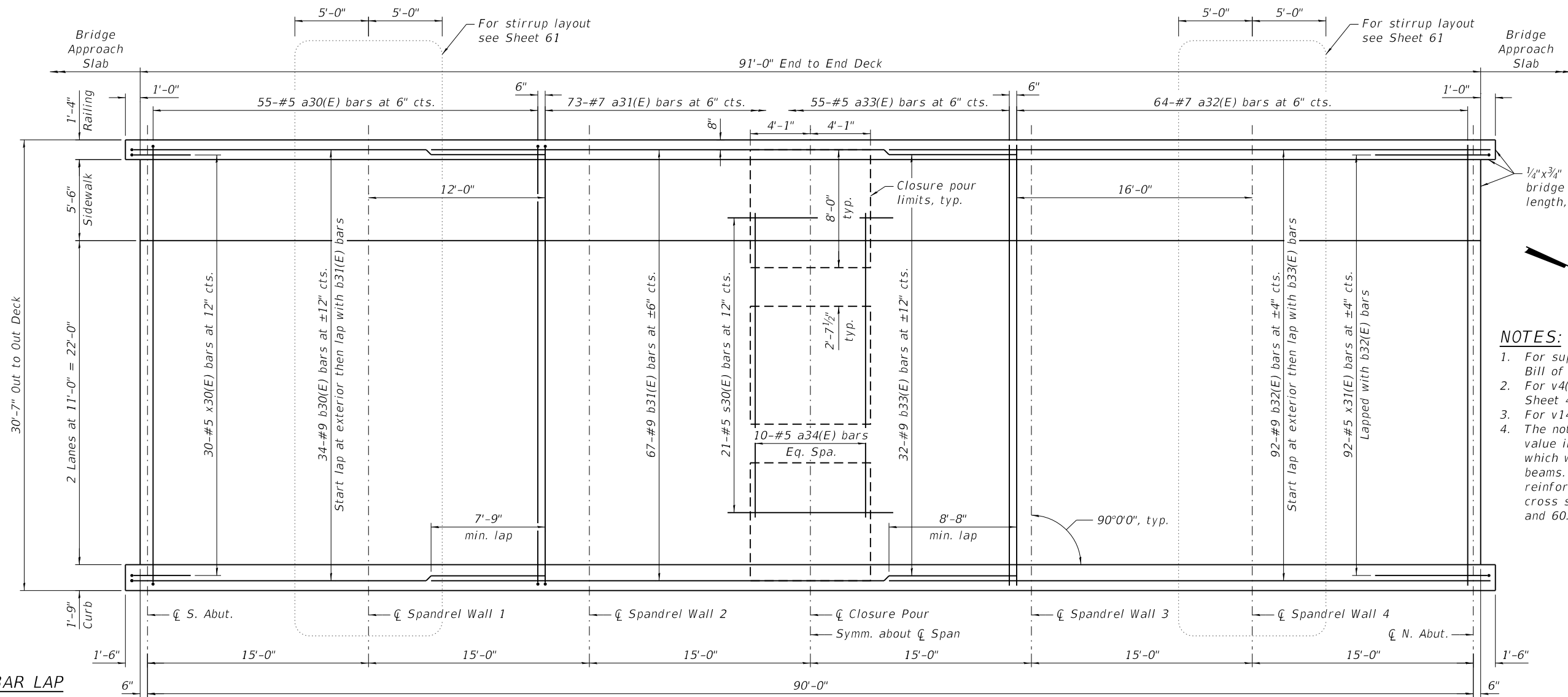
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ELEVATION

(a30(E), a31(E), a32(E), a33(E), s31(E), and s32(E) bars not shown for clarity)

* See "t" definition on Sheet 54. A constant dimension to bottom of slab within full wall length at Spandrel Wall 2 & 3; A constant dimension to bottom of slab within closure pour width over each of three closure pours.



NOTES:

1. For superstructure details and Bill of Material see Sheet 63.
2. For v4(E) and s4(E) bars see Sheet 46.
3. For v14(E) bars see Sheet 51.
4. The notation "±" with a spacing value indicates average spacing which will vary at the edge beams. For precise reinforcement locations see cross sections on Sheets 59 and 60.

MINIMUM BAR LAP

#9 bar (Bottom) = 7'-9"
#9 bar (Top) = 8'-8"

BOTTOM

(Bottom layer reinforcement shown)

PLAN

TOP

(Top layer reinforcement shown)

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DRAWN	MM
CHECKED	RH
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PLOT DATE	5/16/2024

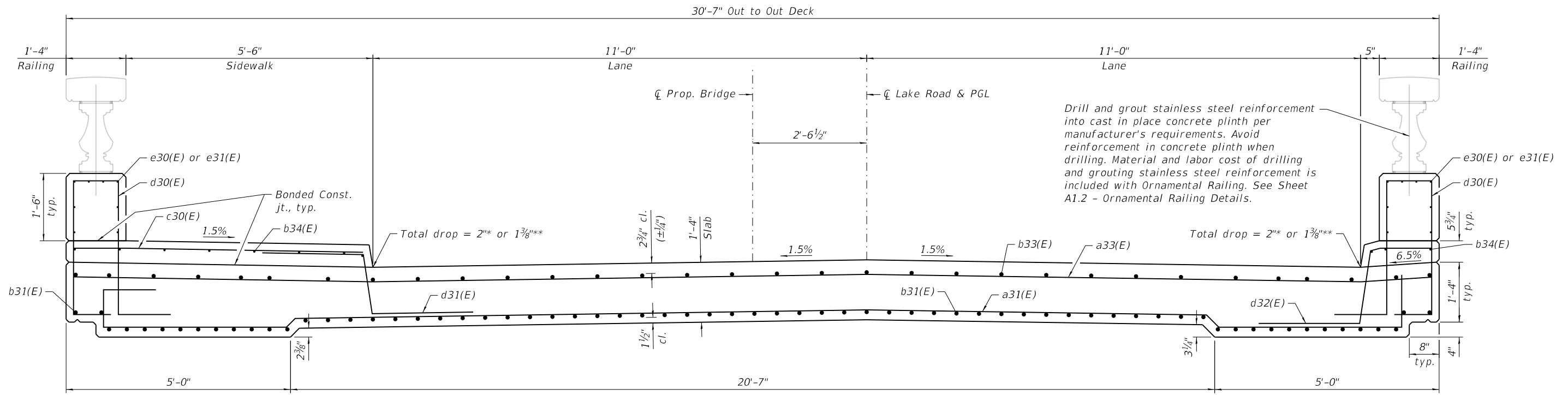
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CHECKED	RH	REVISED	
DATE	6/10/2024	REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK PLAN & CROSS SECTION - 1
STRUCTURE NO. 049-6851**

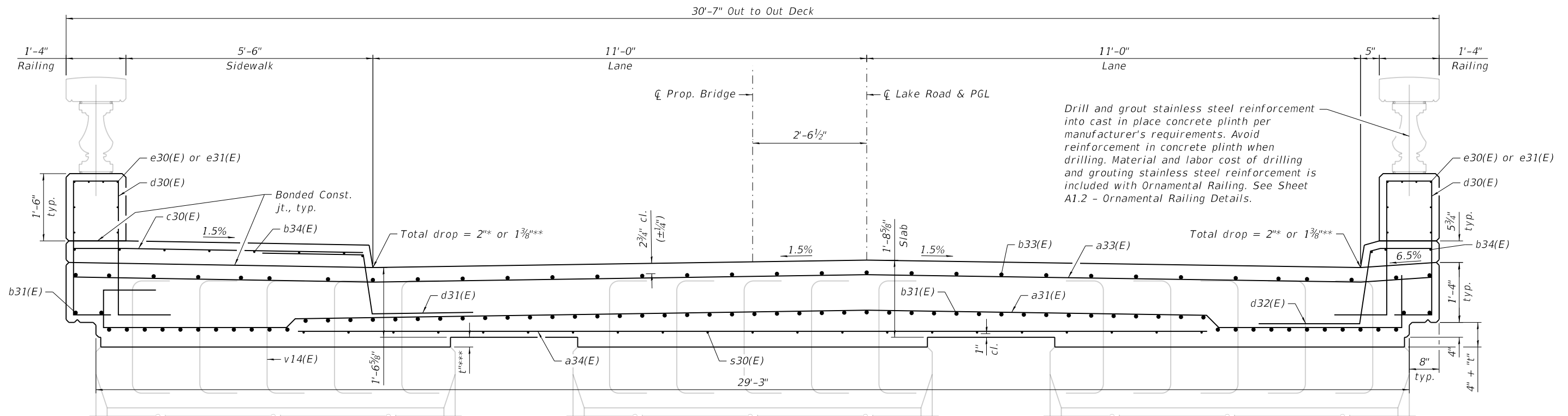
SHEET 26 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	58
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



NEAR CLOSURE POUR CROSS SECTION
(Looking North)

* Relative to \bar{C} Lake Road & PGL
** Relative to Edge of Deck



CLOSURE POUR CROSS SECTION
(Looking North)

* Relative to \bar{C} Lake Road & PGL
** Relative to Edge of Deck
*** See "t" definition on Sheet 54.

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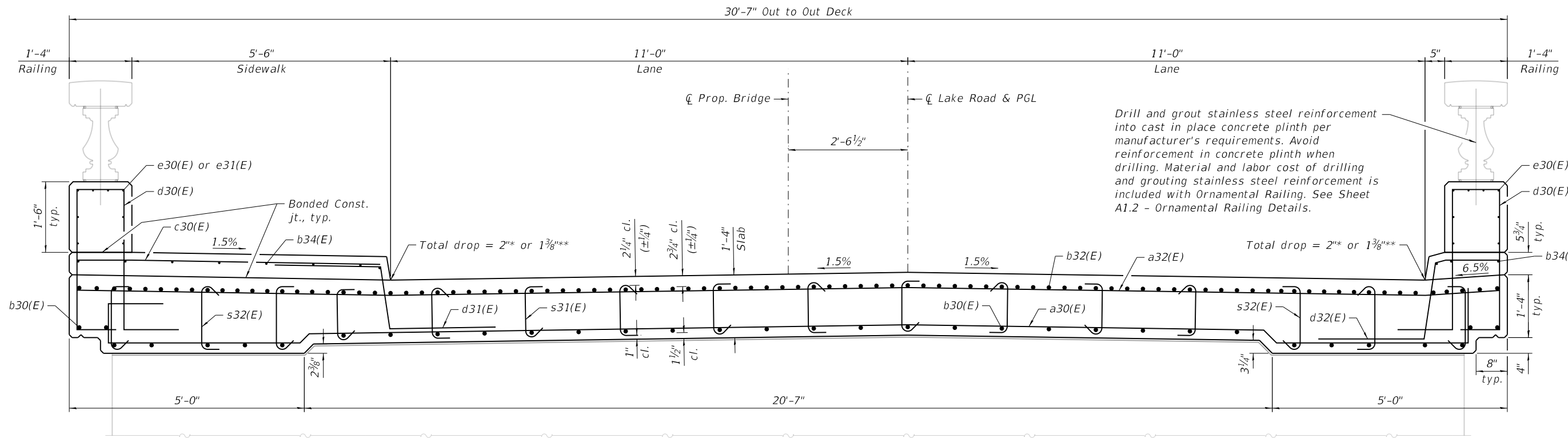
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PLOT DATE	5/16/2024	DATE	6/10/2024	REVISIONS	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN & CROSS SECTION - 2
STRUCTURE NO. 049-6851

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61K52				
		ILLINOIS	FED. AID PROJECT	

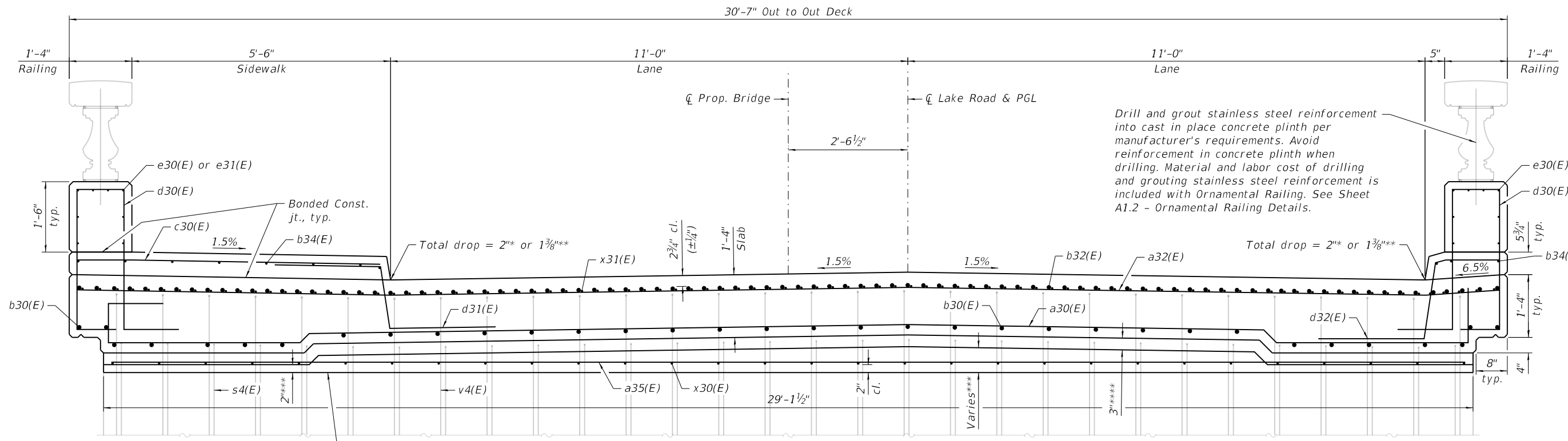
SHEET 27 OF 39 SHEETS STA. TO STA.



SPANDREL WALL 1 & 4 CROSS SECTION

(Looking North)
(Limits of s31(E) and s32(E) shown on Sheet 61)

* Relative to \varnothing Lake Road & PGL
** Relative to Edge of Deck



ABUTMENT CROSS SECTION

(Looking North)

* Relative to \varnothing Lake Road & PGL
** Relative to Edge of Deck
*** Vertical chamfer
**** 45° chamfer

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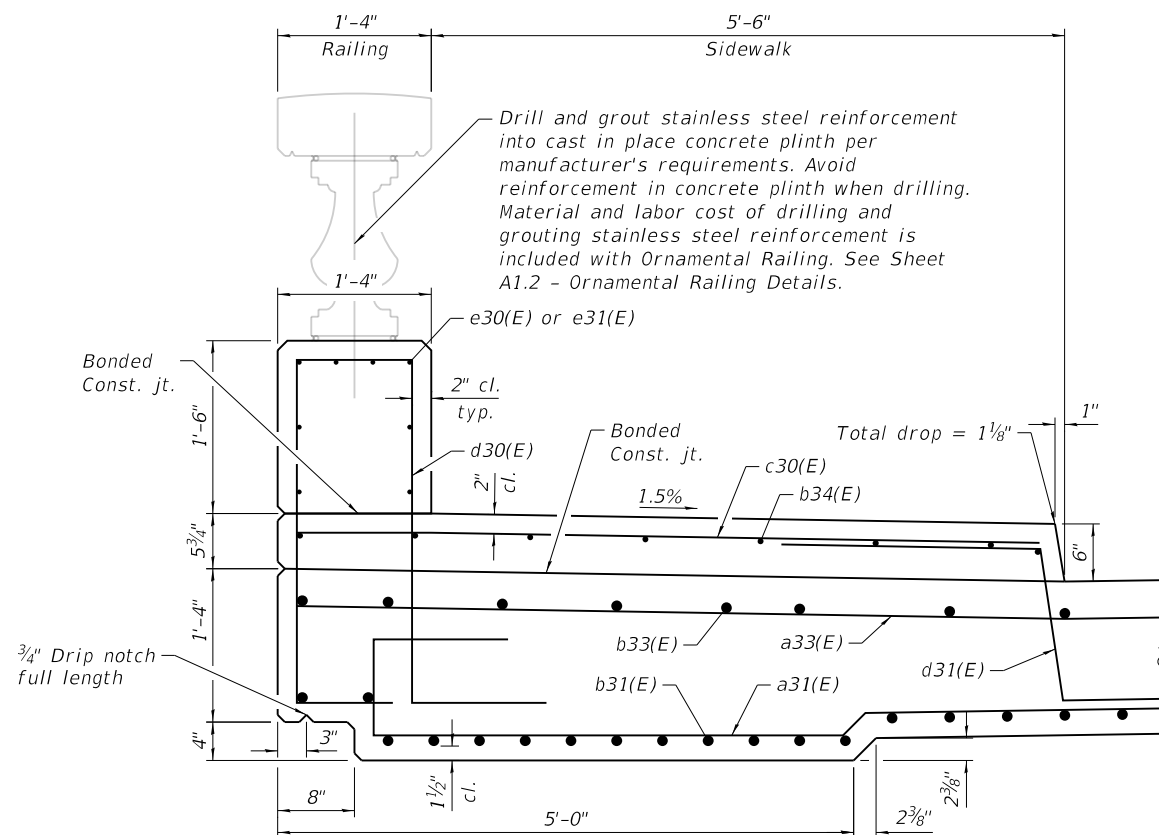
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

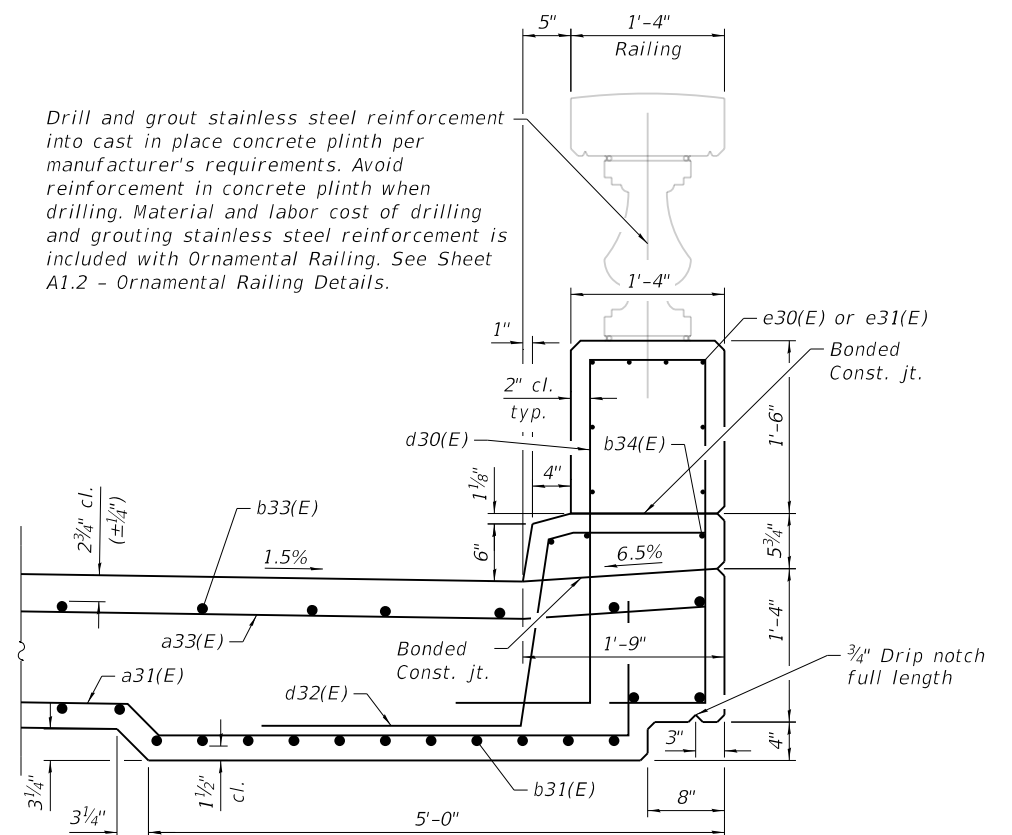
**DECK PLAN & CROSS SECTION - 3
STRUCTURE NO. 049-6851**

SHEET 28 OF 39 SHEETS STA. TO STA.

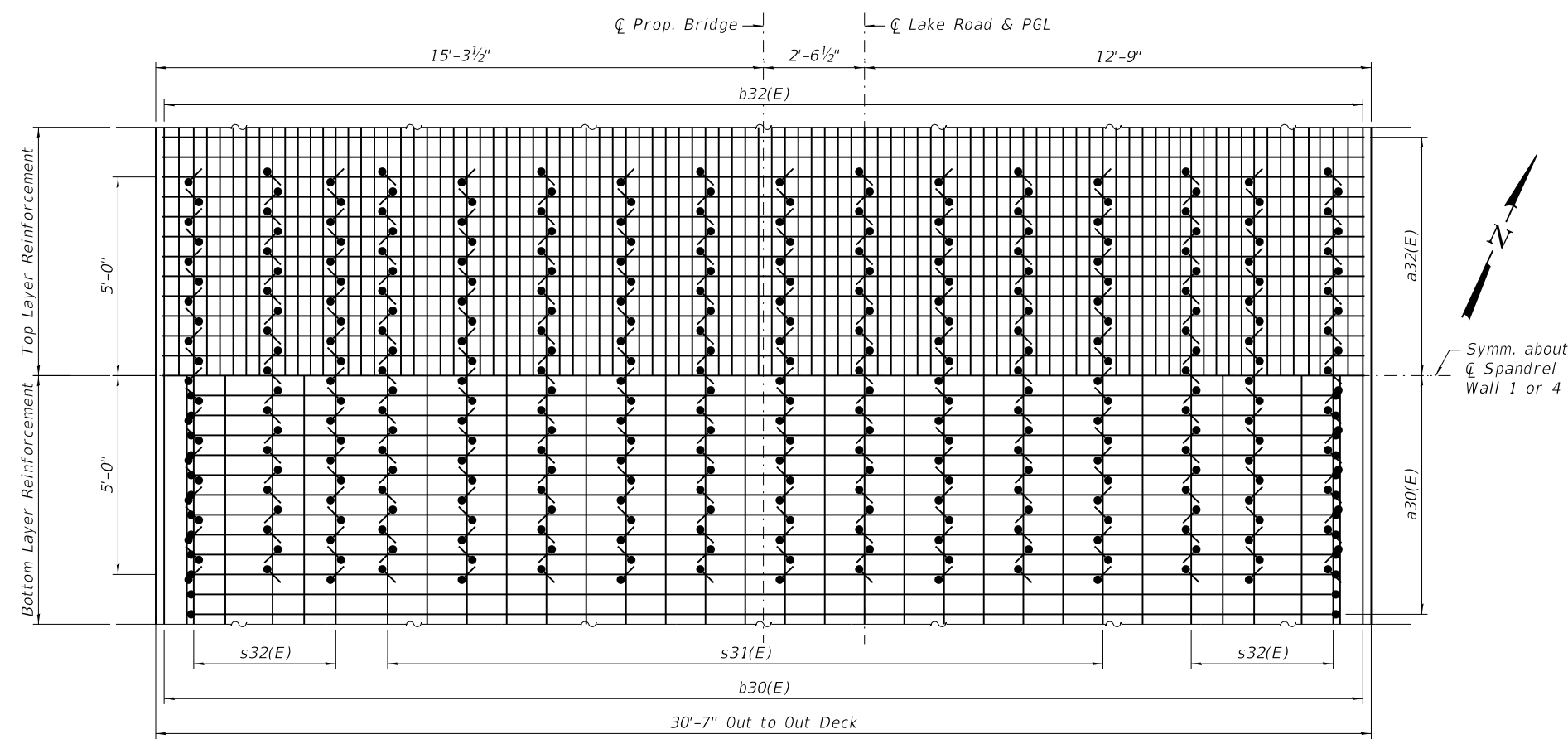
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	60
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION THRU WEST RAILING
 (Reinforcement in slab shown near closure pour)



TYPICAL SECTION THRU EAST RAILING
 (Reinforcement in slab shown near closure pour)



STIRRUP PLAN LAYOUT

- NOTES:**
1. Alternate orientation of s31(E) and s32(E) bars as shown in plan view and cross section on Sheet 60.

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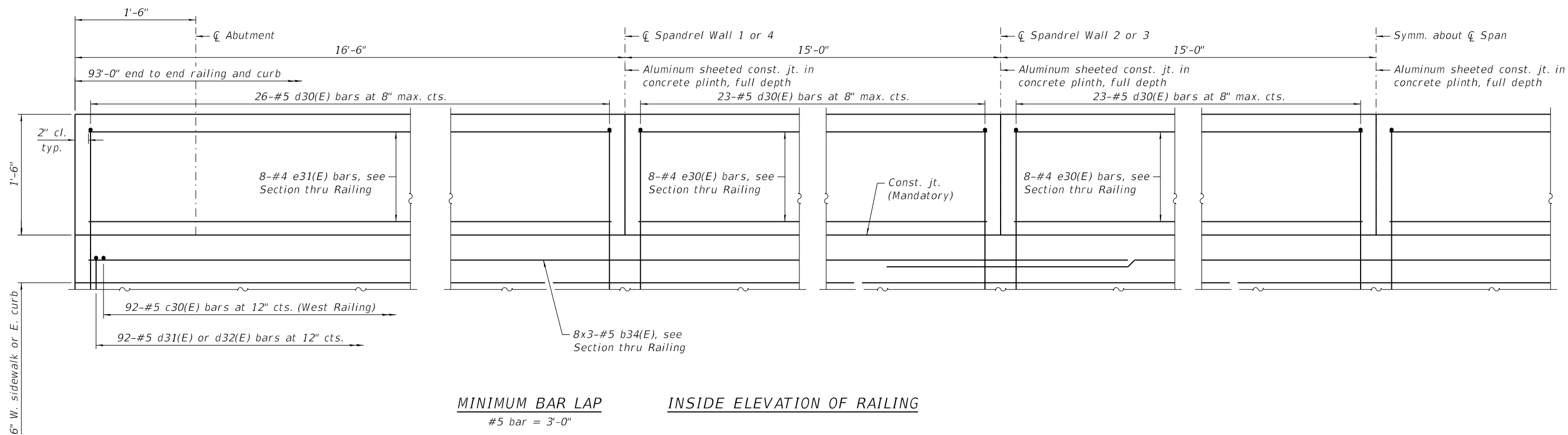
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PLOT SCALE	0:2,000 *"/in.	DATE	6/10/2024	REVISED	-
PLOT DATE	5/16/2024				

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS - 1
 STRUCTURE NO. 049-6851**

SHEET 29 OF 39 SHEETS STA. TO STA.

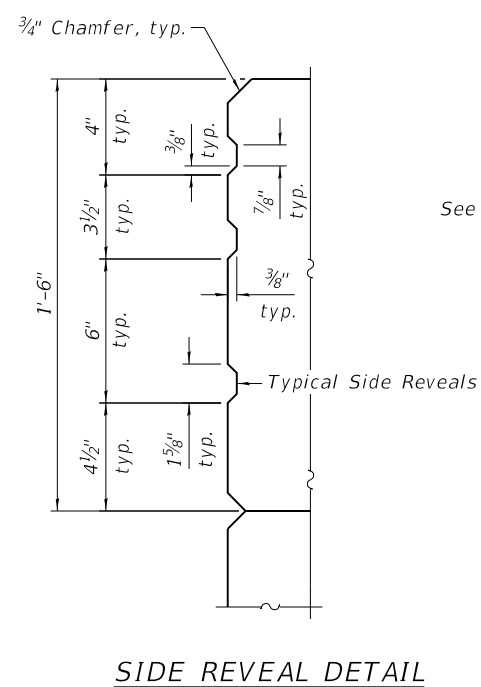
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	61
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



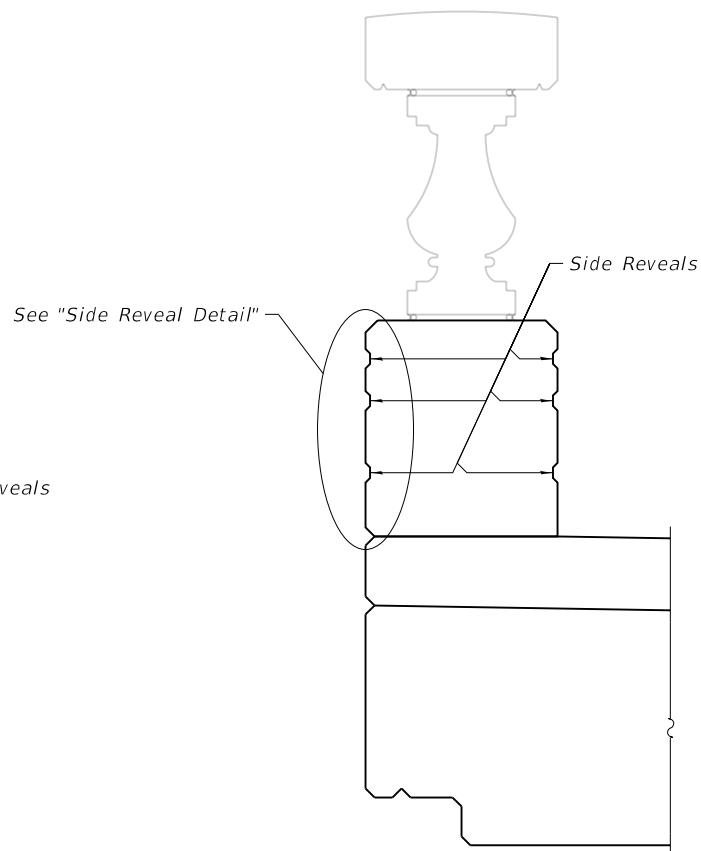
MINIMUM BAR LAP

#5 bar = 3'-0"

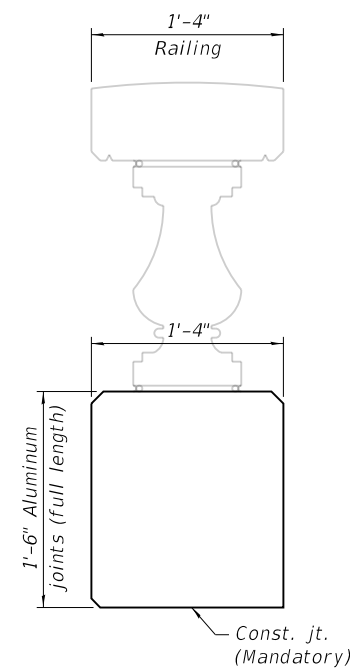
INSIDE ELEVATION OF RAILING



SIDE REVEAL DETAIL



TYPICAL REVEAL LOCATION DETAIL



RAILING JOINT DETAIL

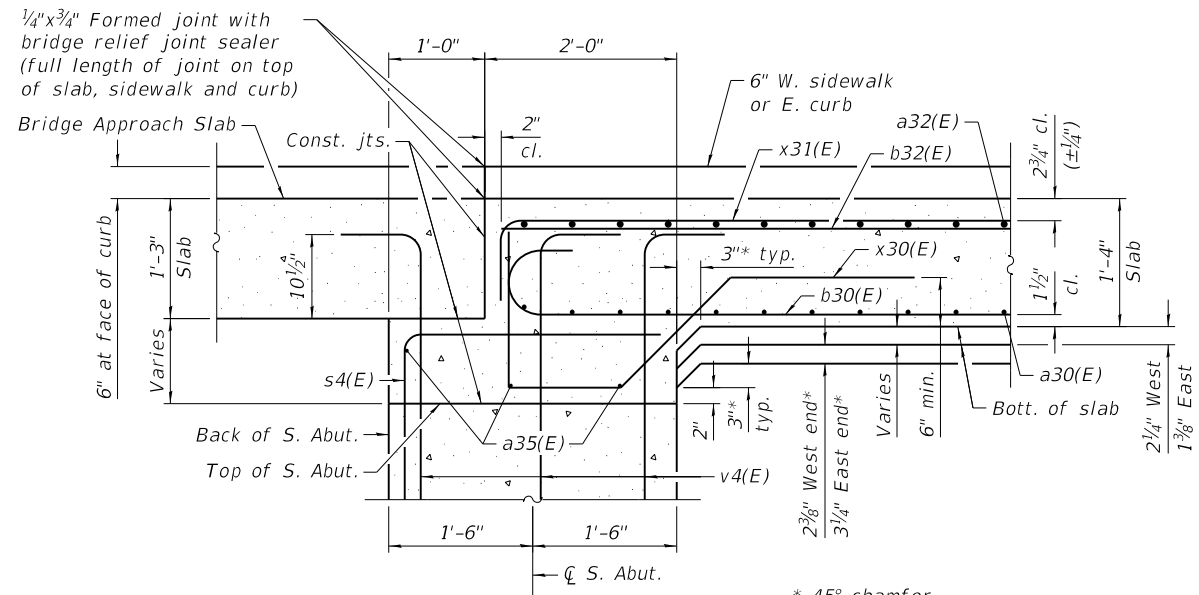
NOTES:

1. Bars indicated thus 8x3-#5 etc. indicates 8 lines of bars with 3 lengths per line.
2. The 3/16" minimum aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated with 5 mils of either bitumen paint or epoxy paint to minimize reaction with wet concrete. Cost included with Concrete Superstructure.

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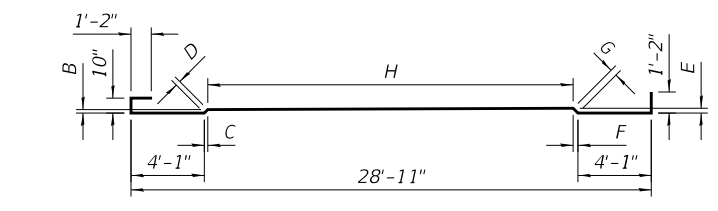
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DRAWN	MM	CHECKED	RH	DATE	6/10/2024
PLOT SCALE	0:2,000 *"/in.	REVISIONS			
PLOT DATE	5/16/2024				

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	62
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



ABUTMENT SECTION

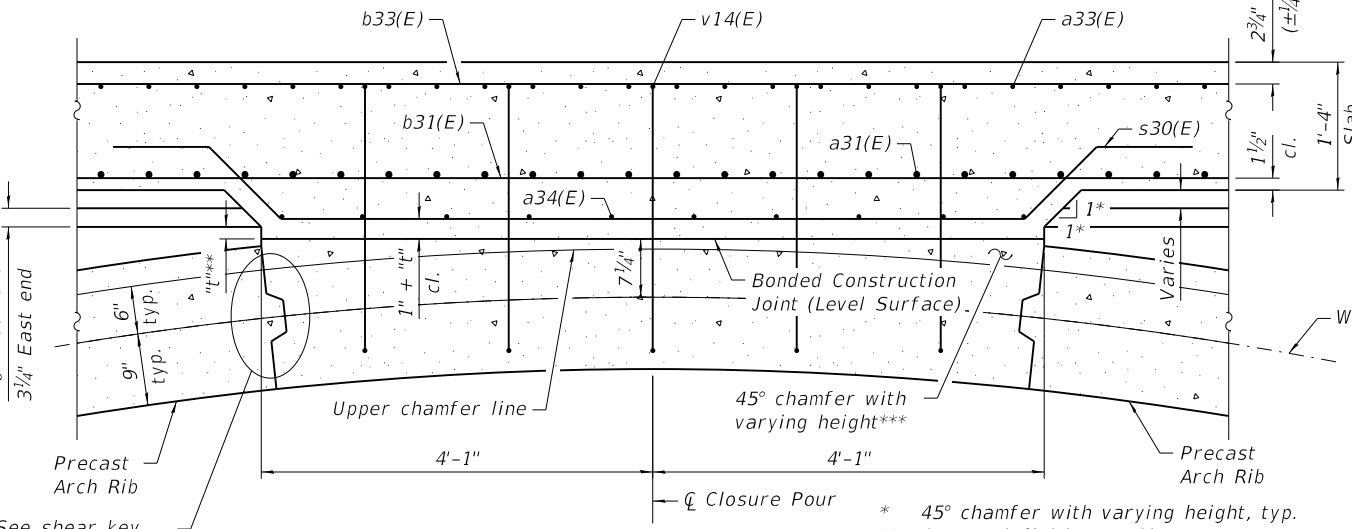
(South Abutment shown, North Abutment similar)



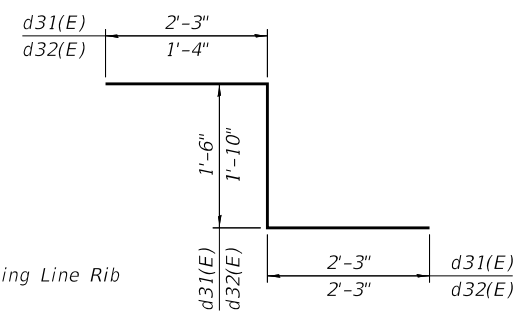
BAR a30(E) & a31(E)

B, C, D, E, F, G & H DIMENSIONS

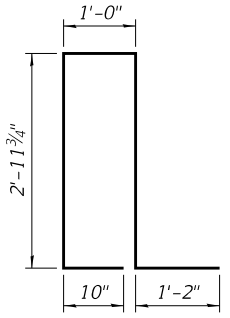
Bar	B	C	D	E	F	G	H
a30(E)	3"	2 1/8"	3 7/8"	3 7/8"	3"	4 7/8"	20'-3 7/8"
a31(E)	3 1/2"	1 7/8"	3 7/8"	4 7/8"	2 3/4"	5 1/4"	20'-4 7/8"



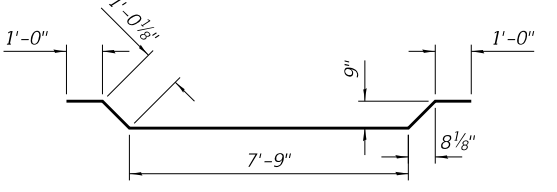
CLOSURE POUR SECTION



BAR d31(E) & d32(E)

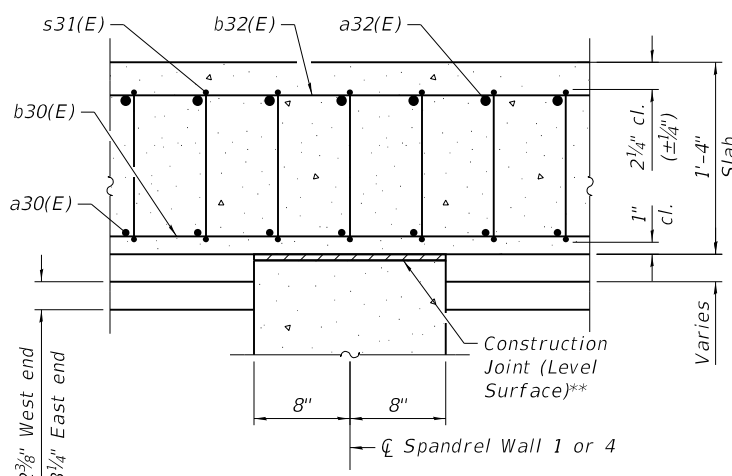


BAR d30(E)



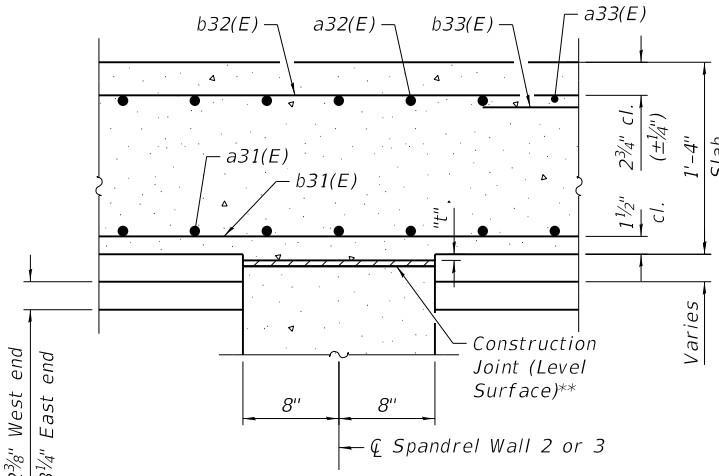
BAR s30(E)

See shear key details in DETAIL 1 on Sheet 48

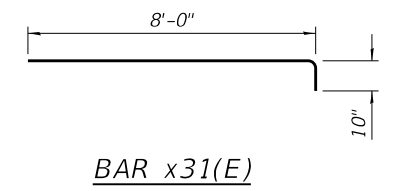


SPANDREL WALL 1 & 4 SECTION

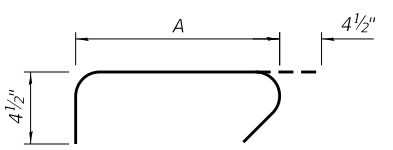
** Top concrete surface of the spandrel walls shall be finished smooth and applied with approved 2-system epoxy adhesive (hardener and resin). Allow the adhesive to settle. 1/2" fabric reinforced elastomeric pad shall be placed on top of applied epoxy resin within the entire top surface of the spandrel walls after the seat conditions are inspected and approved by the Engineer. Place compressive pressure on top of the elastomeric pad per manufacturer requirements until the epoxy is bonded and settled. Cost of furnishing and installing of 1/2" fabric reinforced elastomeric pad are included with Concrete Structures.



SPANDREL WALL 2 & 3 SECTION



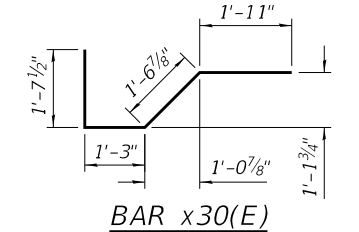
BAR x31(E)



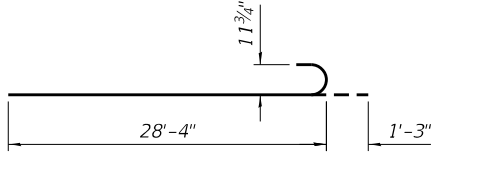
BAR s31(E) & s32(E)

A DIMENSIONS

Bar	A
s31(E)	1'-3/4"
s32(E)	1'-4"



BAR x30(E)



BAR b30(E)

NOTES:

- Place bars a30(E), a31(E), a32(E), and a33(E) parallel to the cross slopes.
- Place bars x30(E) and x31(E) parallel to centerline of roadway.
- Match the bridge seat slope with the approach seat slope.
- Protective Coat shall be applied to the entire top surface of slab including top and inside vertical face of sidewalk and railings.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a30(E)	110	#5	32'-6"		
a31(E)	73	#7	32'-6"		
a32(E)	128	#7	30'-3"		
a33(E)	55	#5	30'-3"		
a34(E)	10	#5	20'-3"		
a35(E)	6	#4	28'-9"		
b30(E)	68	#9	29'-7"		
b31(E)	67	#9	51'-6"		
b32(E)	184	#9	41'-0"		
b33(E)	32	#9	28'-0"		
b34(E)	33	#5	32'-11"		
c30(E)	92	#5	6'-6"		
d30(E)	288	#5	9'-0"		
d31(E)	92	#5	6'-0"		
d32(E)	92	#5	5'-5"		
e30(E)	64	#4	14'-8"		
e31(E)	32	#4	16'-2"		
s30(E)	21	#5	11'-10"		
s31(E)	420	#4	1'-10"		
s32(E)	252	#4	2'-1"		
x30(E)	60	#5	6'-5"		
x31(E)	184	#5	8'-10"		
Concrete Superstructure				Cu. Yd.	181.7
Bridge Deck Grooving				Sq. Yd.	203
Protective Coat				Sq. Yd.	427
Reinforcement Bars, Epoxy Coated				Pound	75,580

MODEL: Default; FILE: NAME; PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION; PROJECT NO: 049-6851; SHEET: SUPERSTRUCTURE DETAILS - 3; DATE: 5/16/2024



USER NAME: Personal
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 CHECKED: RH
 PLOT DATE: 5/16/2024

DESIGNED: MM
 DRAWN: MM
 CHECKED: RH
 DATE: 6/10/2024

REVISED: -
 REVISED: -
 REVISED: -
 REVISED: -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS - 3
 STRUCTURE NO. 049-6851**

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	63
CONTRACT NO. 61K52				

SHEET 31 OF 39 SHEETS STA. TO STA.

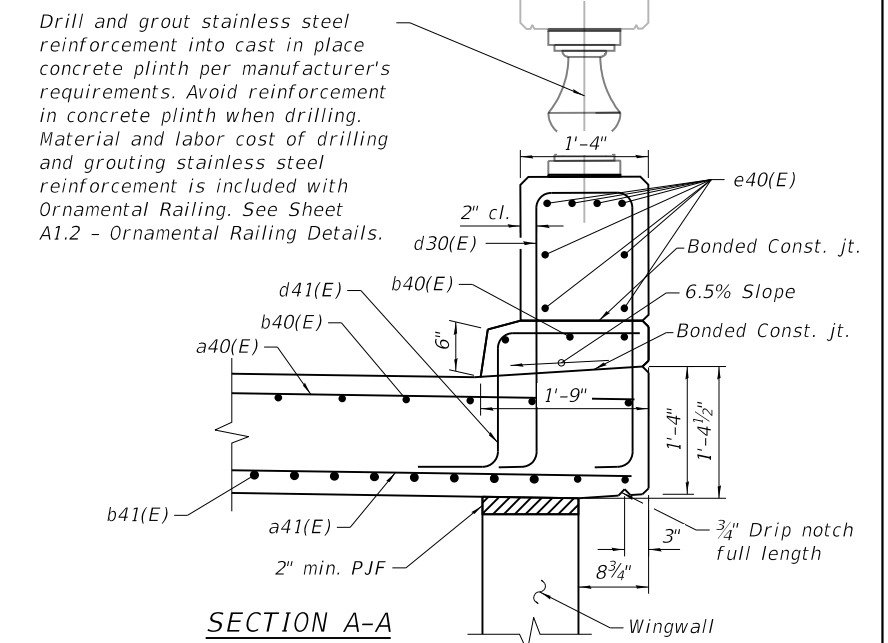
ILLINOIS FED. AID PROJECT

**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

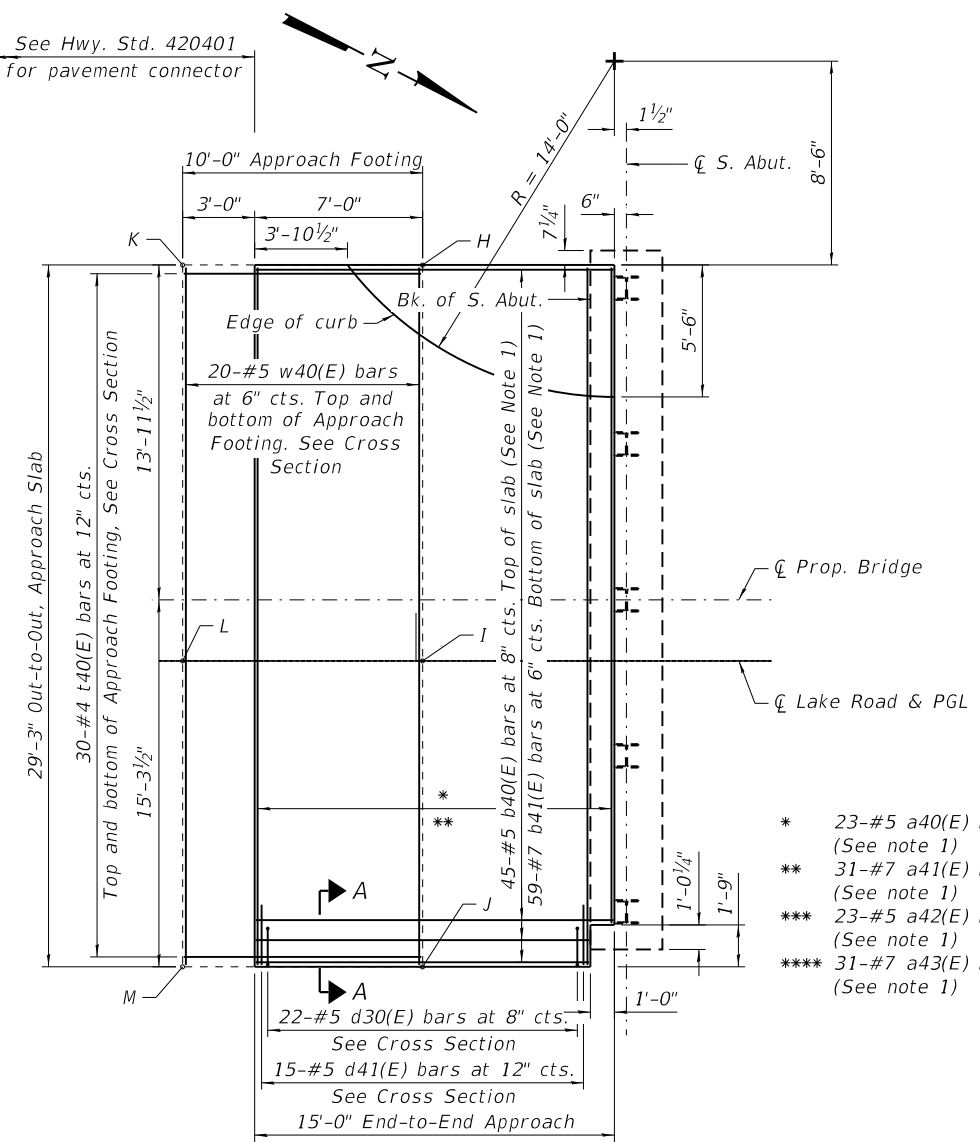
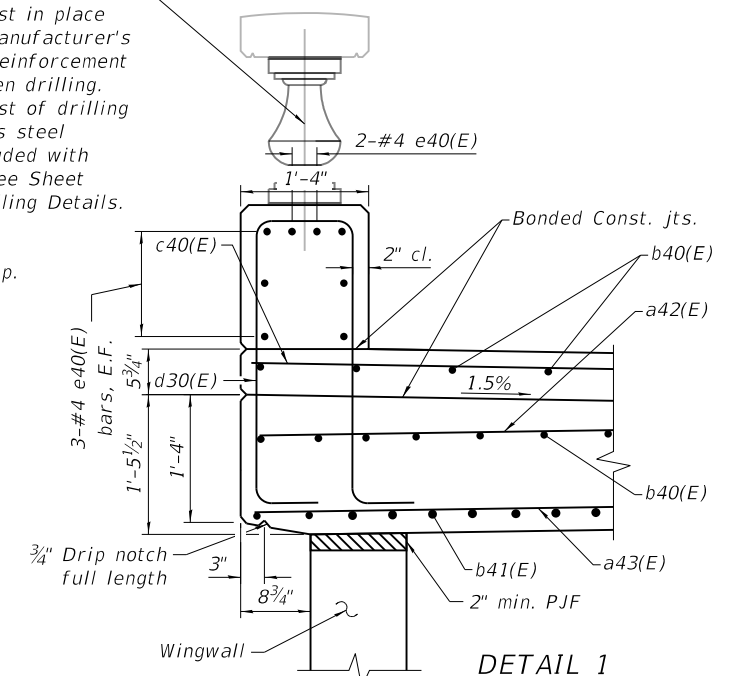
South Approach			North Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
H	650.09	649.26	A	650.63	649.80
I	650.34	649.51	B	650.88	650.04
J	650.15	649.42	C	650.71	649.88
K	650.05	649.22	D	650.67	649.84
L	650.30	649.46	E	650.71	649.87
M	650.11	649.27	F	650.93	650.09
			G	650.76	649.93

NOTES:

- Cut to fit a40(E), a41(E), a42(E), a43(E), t40(E), w41(E), b40(E) and b41(E) in the field. Exposed rebar cutting end must be coated with epoxy in the field after rebar cutting.
- For sidewalk slab details see Sheet 66.
- For Section B-B see Sheet 65.

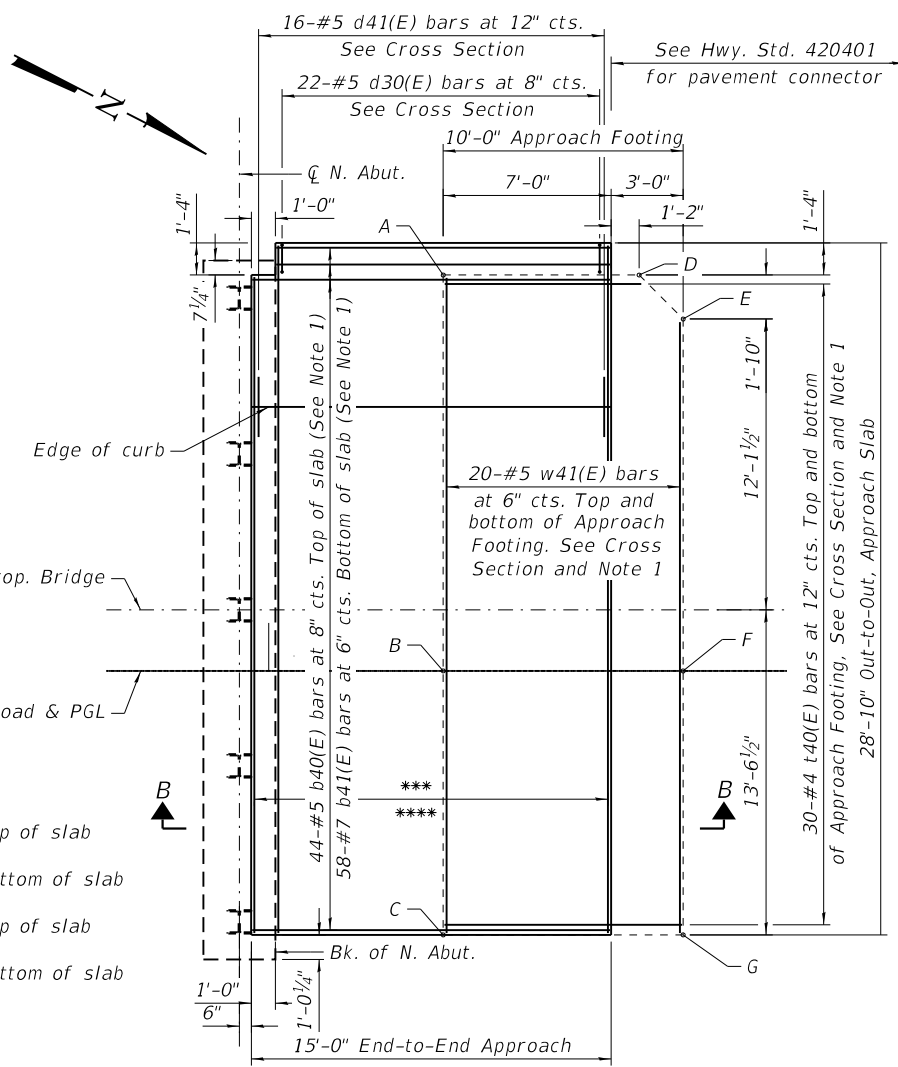


Drill and grout stainless steel reinforcement into cast in place concrete plinth per manufacturer's requirements. Avoid reinforcement in concrete plinth when drilling. Material and labor cost of drilling and grouting stainless steel reinforcement is included with Ornamental Railing. See Sheet A1.2 - Ornamental Railing Details.

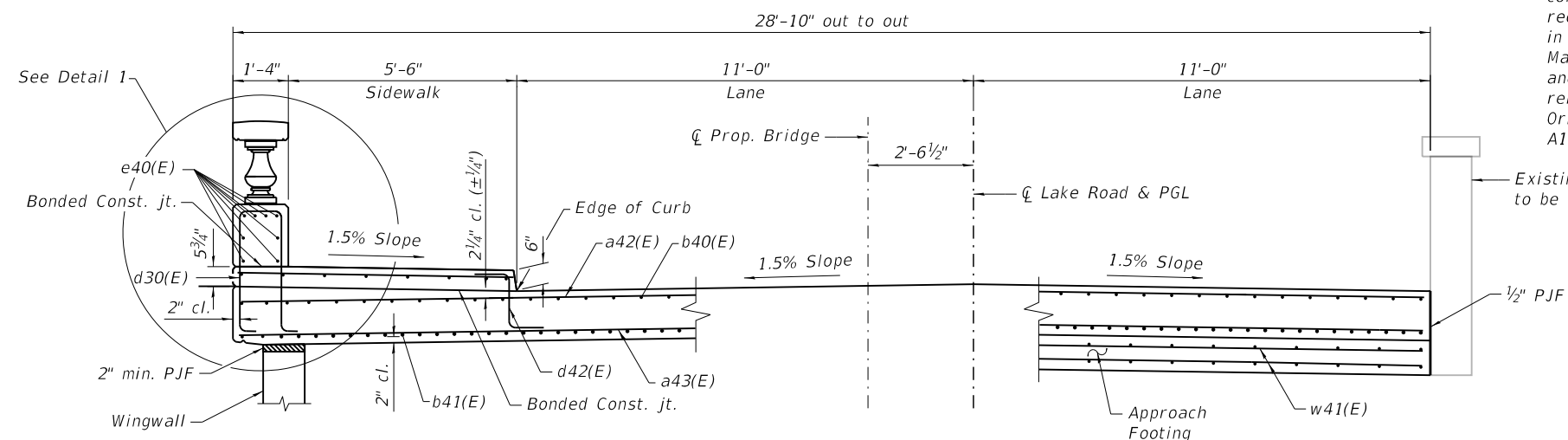


PLAN - SOUTH APPROACH SLAB

- * 23-#5 a40(E) bars at 8" cts. Top of slab (See note 1)
- ** 31-#7 a41(E) bars at 6" cts. Bottom of slab (See note 1)
- *** 23-#5 a42(E) bars at 8" cts. Top of slab (See note 1)
- **** 31-#7 a43(E) bars at 6" cts. Bottom of slab (See note 1)



PLAN - NORTH APPROACH SLAB



**CROSS SECTION THRU N. APPROACH SLAB
(Looking North)**

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 DATE: 6/10/2024



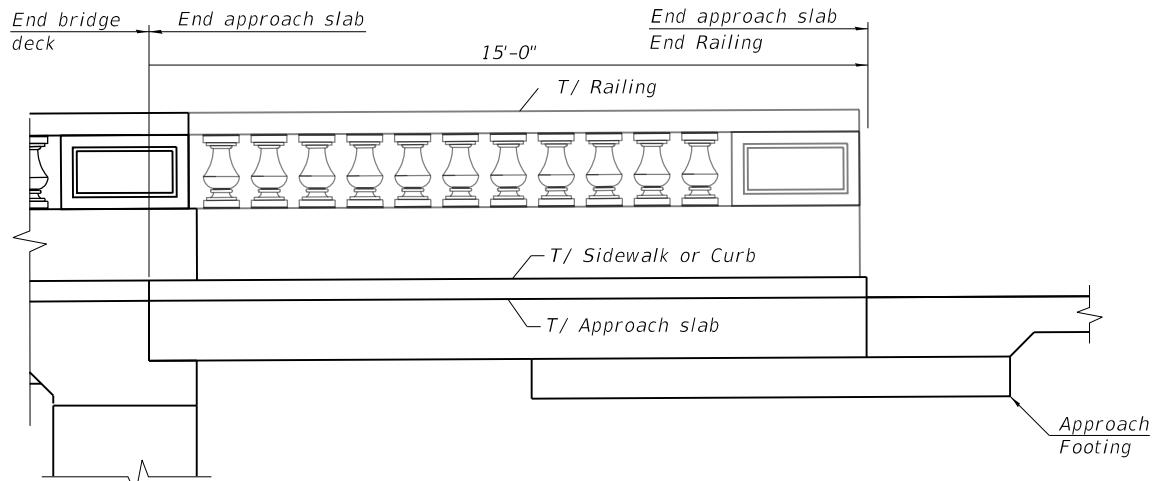
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PLOT DATE	= 5/16/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APPROACH SLAB PLAN, SECTION & DETAILS 1
STRUCTURE NO. 049-6851**

SHEET 32 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	64
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



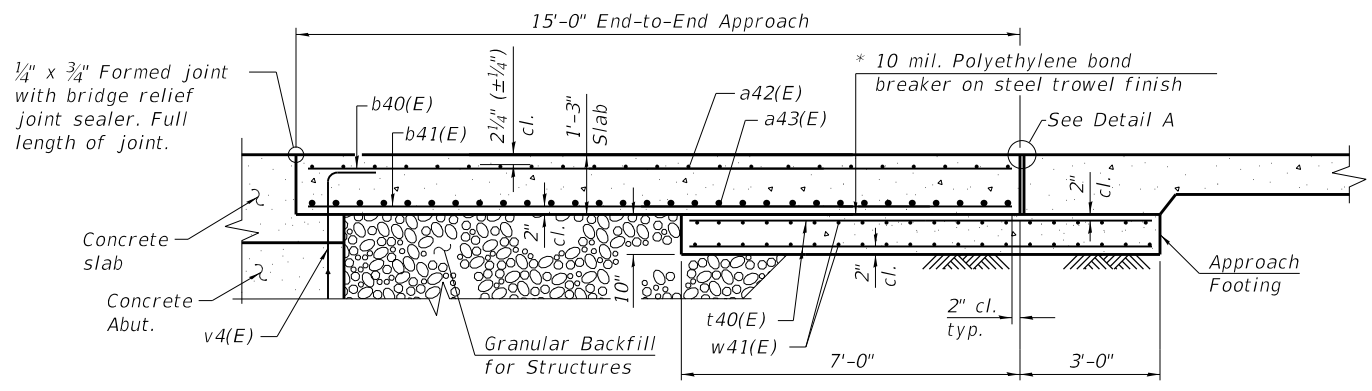
INSIDE ELEVATION OF BALUSTRADE AND SIDEWALK OR CURB
(15'-0" Maximum Length)

NOTES:

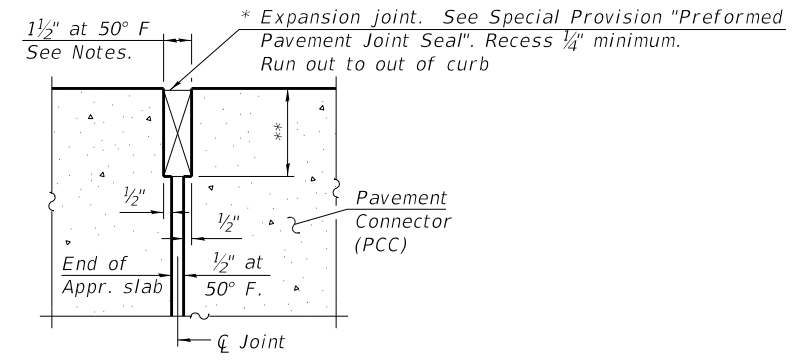
1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
2. Sidewalk and curb concrete under railing shall be paid for as Concrete Superstructure.
3. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid for as Concrete Structures.
5. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
6. Cost of excavation for approach footing included with Concrete Structures.
7. For Granular Backfill for Structures and drainage treatment details, see Sheet 34.
8. Protective Coat shall be applied to the entire top surface of approach slab including top and inside vertical face of sidewalk and railings.

SOUTH APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a40(E)	23	#5	28'-11"	—
a41(E)	31	#7	28'-11"	—
b40(E)	45	#5	14'-8"	—
b41(E)	59	#7	14'-8"	—
d30(E)	15	#5	9'-0"	U
d41(E)	15	#5	4'-11"	J
d42(E)	13	#5	5'-10"	J
t40(E)	60	#4	9'-8"	—
w40(E)	20	#5	28'-11"	—
Concrete Structures			Cu. Yd.	9.1
Concrete Superstructure (Approach Slab)			Cu. Yd.	20.4
Reinforcement Bars, Epoxy Coated			Pound	6,280



SECTION B-B

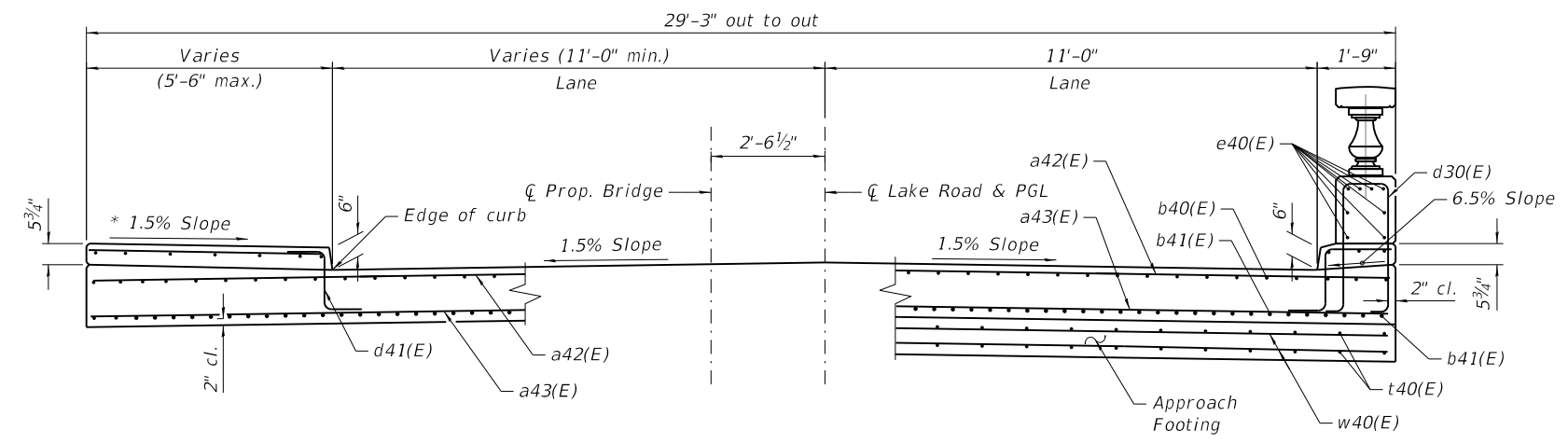


DETAIL A

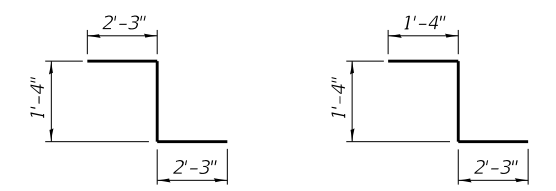
* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations

NORTH APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a42(E)	23	#5	28'-6"	—
a43(E)	31	#7	28'-6"	—
b40(E)	44	#5	14'-8"	—
b41(E)	59	#7	14'-8"	—
d30(E)	15	#5	9'-0"	U
d42(E)	16	#5	5'-10"	J
t40(E)	60	#4	9'-8"	—
w41(E)	20	#5	27'-2"	—
Concrete Structures			Cu. Yd.	8.5
Concrete Superstructure (Approach Slab)			Cu. Yd.	20.0
Reinforcement Bars, Epoxy Coated			Pound	6,130



CROSS SECTION THRU S. APPROACH SLAB
(Looking North)



BAR d42(E)

BAR d41(E)

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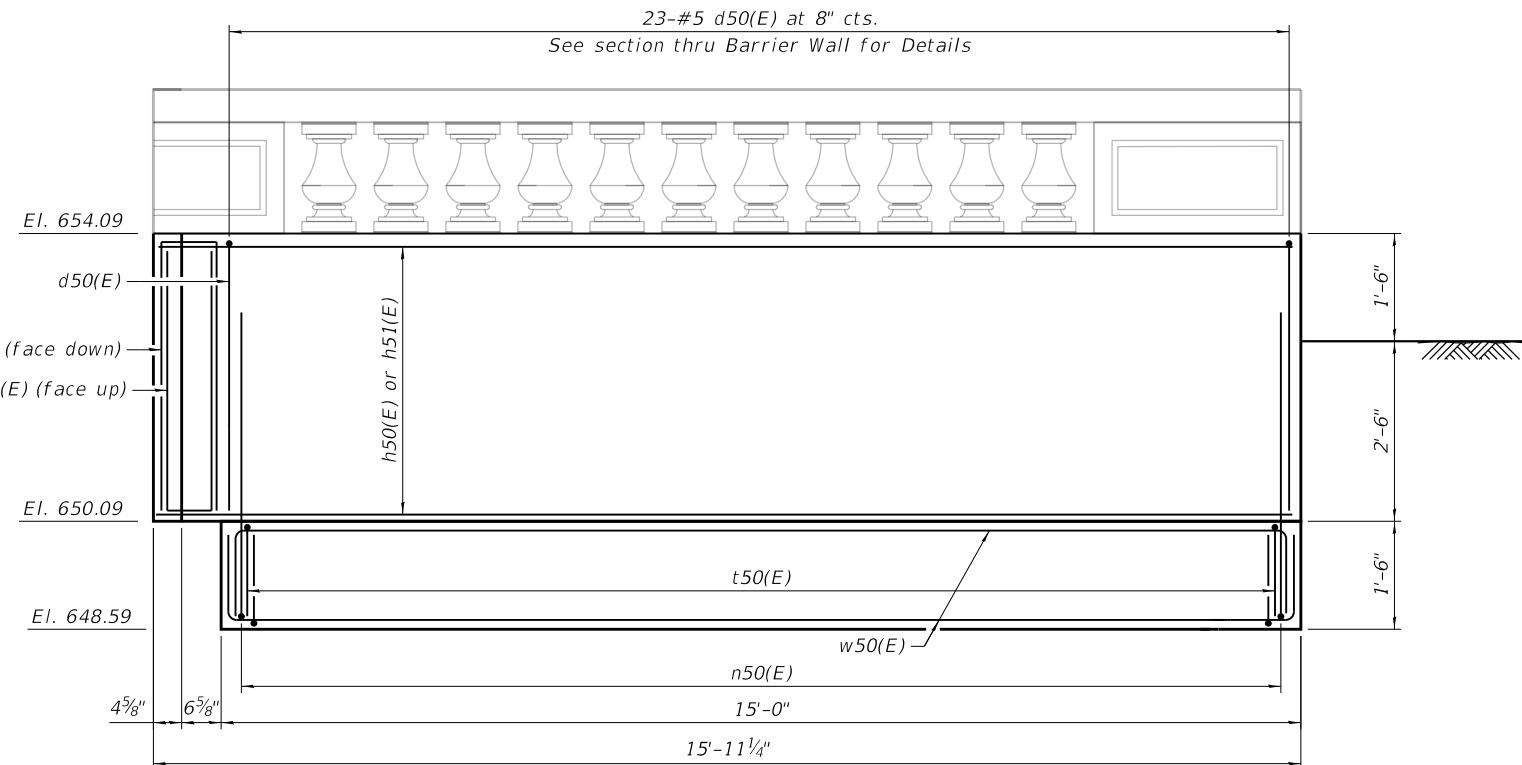
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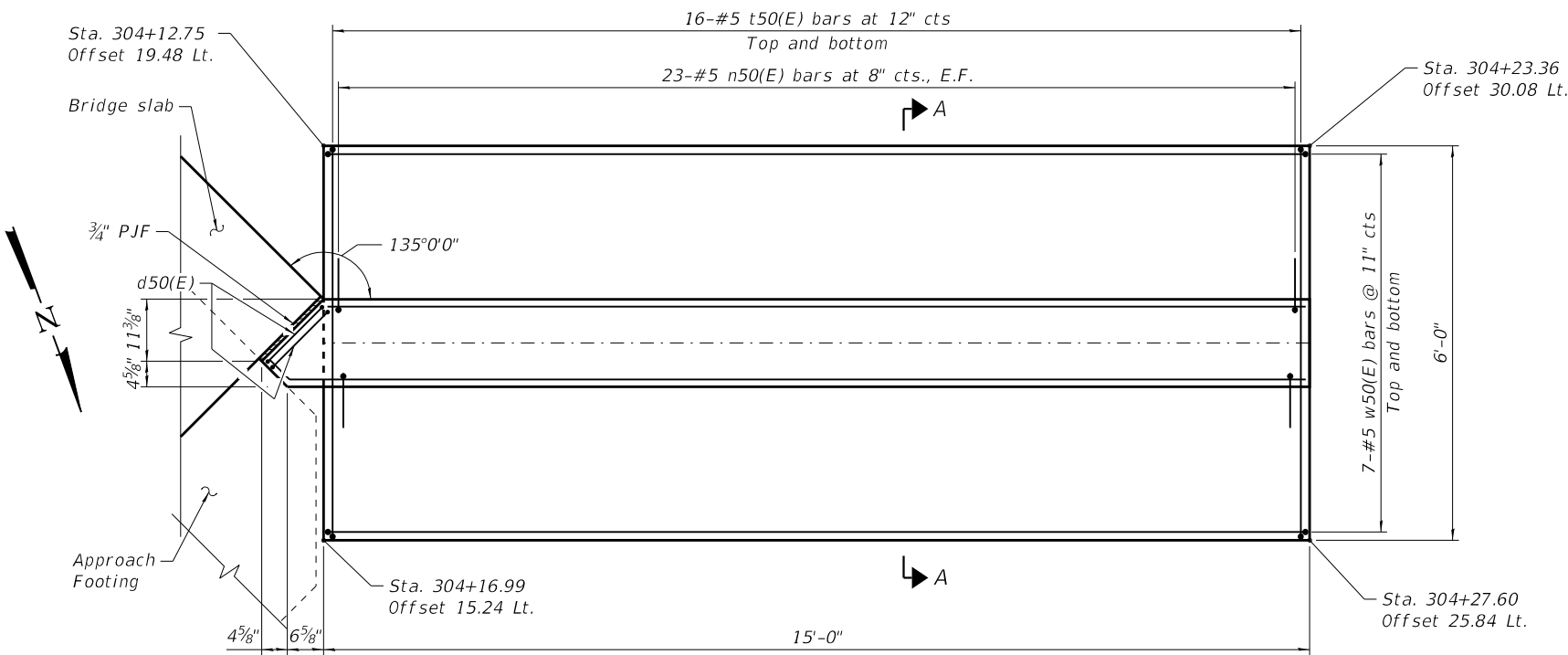
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROACH SLAB PLAN, SECTION & DETAILS 2
STRUCTURE NO. 049-6851

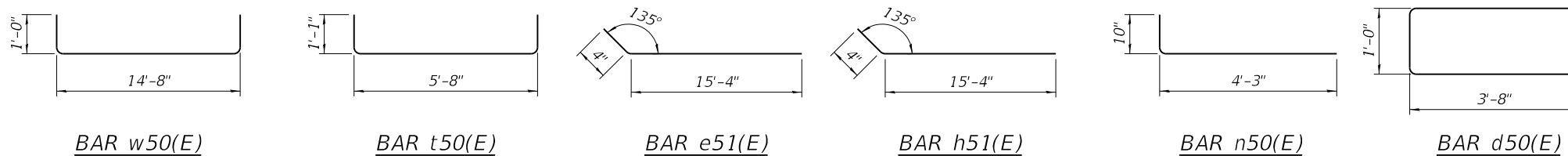
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	65
CONTRACT NO. 61K52				
ILLINOIS		FED. AID PROJECT		



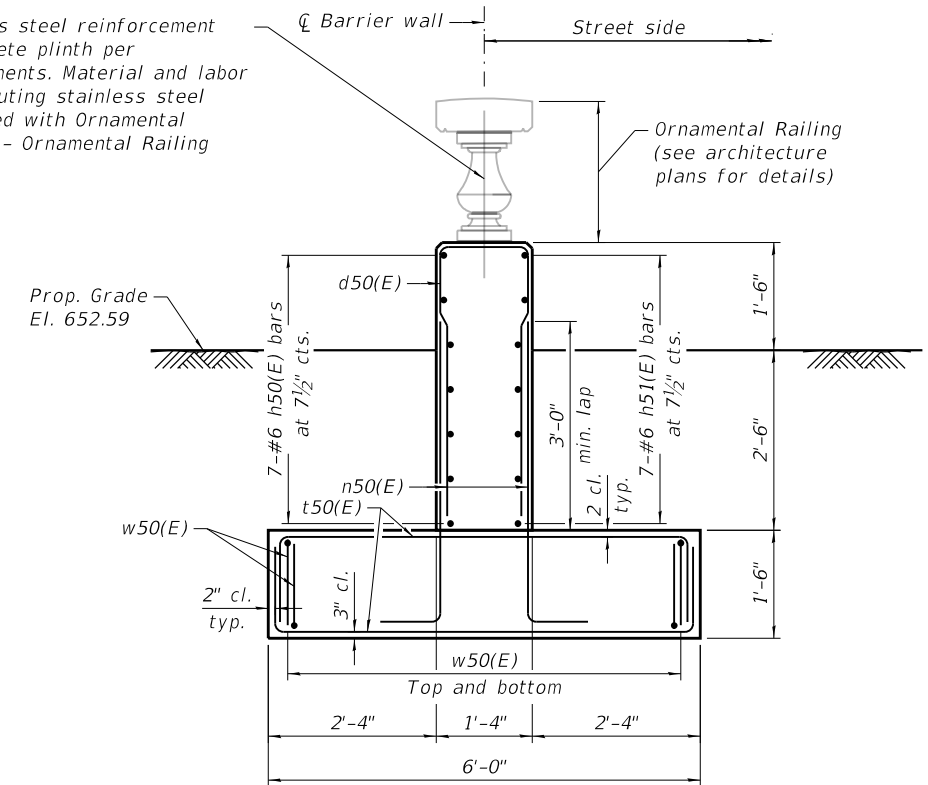
ELEVATION



PLAN



Drill and grout stainless steel reinforcement into cast in place concrete plinth per manufacturer's requirements. Material and labor cost of drilling and grouting stainless steel reinforcement is included with Ornamental Railing. See Sheet A1.2 - Ornamental Railing Details.



SECTION A-A

**BARRIER WALL
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d50(E)	25	#5	8'-4"	
h50(E)	7	#6	15'-0"	
h51(E)	7	#6	15'-8"	
n50(E)	46	#5	5'-1"	
t50(E)	32	#5	7'-10"	
w50(E)	14	#5	16'-8"	
Structure Excavation			Cu. Yd.	10
Concrete Structures			Cu. Yd.	6.9
Reinforcement Bars, Epoxy Coated			Pound	1,290
Granular Backfill For Structures			Cu. Yd.	45

NOTES:

- All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Ornamental Railing.
- Protective Coat shall be applied to the entire top and inside vertical face of barrier wall.

MODEL Default
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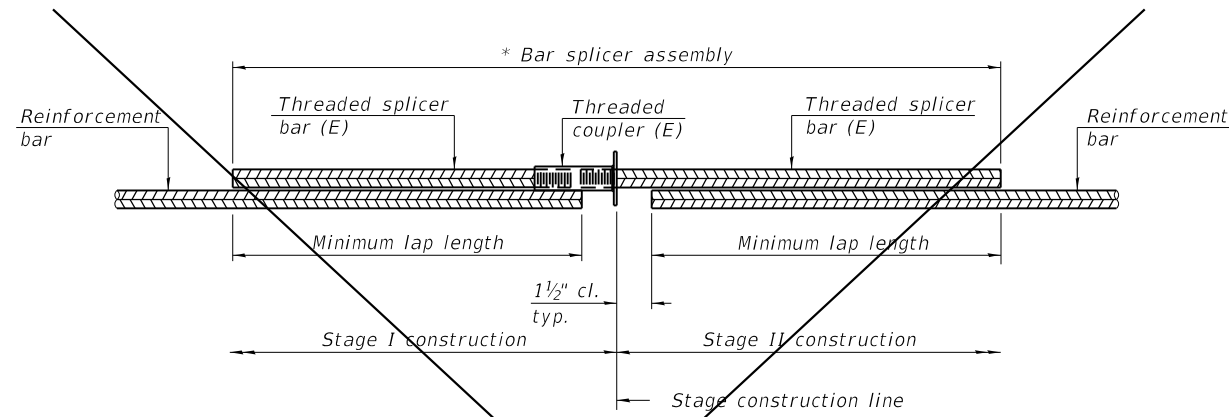
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PLOT DATE	5/16/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BARRIER WALL DETAILS
STRUCTURE NO. 049-6851**

SHEET 35 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	67
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



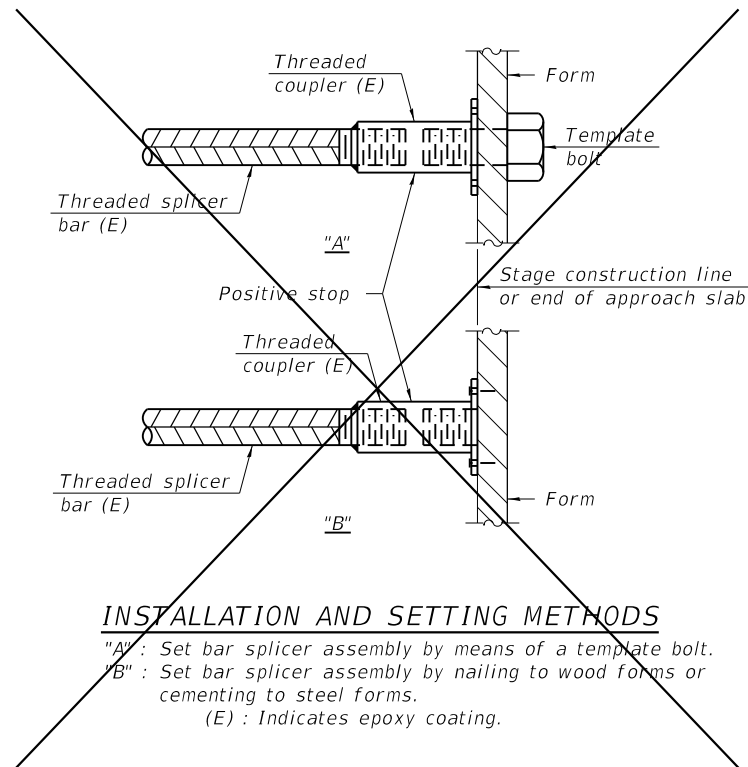
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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

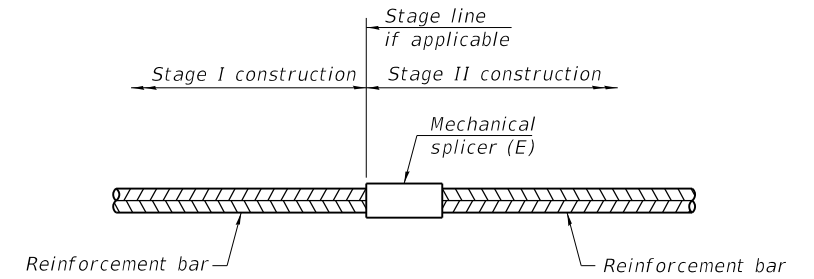


INSTALLATION AND SETTING METHODS

"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
Drilled Shaft	#9	176
Spandrel Walls 2 & 3	#8	108
Closure pour	#9	252

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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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)

BSD-1

2-1-2023



USER NAME	Personal	DESIGNED	MM	REVISED	-
DRAWN	-	MM	REVISED	-	
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PLOT DATE	= 5/16/2024	DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 049-6851**

SHEET 36 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	68
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

MIDLAND STANDARD ENGINEERING & TESTING, INC. Page 1 of 1
 STRUCTURE FOUNDATION BORING LOG Date 8/22/12

ROUTE Lake DESCRIPTION Bridge LOGGED BY SPE
 SECTION 12-00094-00-BR LOCATION Lake Road Bridge
 COUNTY Lake STRUCTURE NO. 049-6852 (Exist) X (Prop.)
 BORING NO. SB-1 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 304+17
 Offset 9' L
 Ground Surface Elev. 656.2 (ft.)
 Surface Water Elev. none (ft.)
 Groundwater Elev. First Encounter 29.8' (ft.)
 Upon Completion 32.9' (ft.)
 After Hrs. (ft.)

SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	
Pavement: 11-1/2" Bituminous Concrete over 6-1/2" Grey Crushed Limestone	654.7		5	2.5	20	Grey Sandy LOAM, A-4, medium dense		35	3	5-7	--	12
Brown CLAY, A-6, stiff to hard			3	1.90	21	Grey Sandy LOAM, A-4(1), very stiff	619.2					
			5	4.7				40	9	10-12	2.06	12
			3	5.7	15							
			5	7.10	14							
to Brown and Grey			10	7.10	14	to CLAY, A-6, very stiff to hard		45	7	10-12	4.5+	9
			5	7.7	16							
Grey Silty Clay LOAM, A-6, very stiff to stiff	643.2		4	3.10	15							
			15	6.7				50	10	12-15	3.80	15
			3	4.6	16							
			3	5.7	16							
			3	6.7	19			55	10	12-17	5.35	15
			25	4.4	17	Grey Silt LOAM to SILT, A-4, very dense	600.2					
			3	4.4	16							
			3	4.4	18							
			30	4.4		End of Boring at 60'	596.2	60	20	22-29	--	15
Grey Sandy LOAM, A-4	624.7											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
 The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

MIDLAND STANDARD ENGINEERING & TESTING, INC. Page 1 of 1
 STRUCTURE FOUNDATION BORING LOG Date 8/22/12

ROUTE Lake DESCRIPTION Bridge LOGGED BY SPE
 SECTION 12-00094-00-BR LOCATION Lake Road Bridge
 COUNTY Lake STRUCTURE NO. 049-6852 (Exist) X (Prop.)
 BORING NO. SB-2 DRILLING METHOD CFA HAMMER TYPE Automatic

Station 302+92
 Offset 7' R
 Ground Surface Elev. 655.7 (ft.)
 Surface Water Elev. none (ft.)
 Groundwater Elev. First Encounter 18.0' (ft.)
 Upon Completion 18.8' (ft.)
 After Hrs. (ft.)

SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	SOIL DESCRIPTION	(ft.)	(ft.)	/6"	(tsf)	(%)	
Pavement: 6" Bituminous Concrete over 11" Grey Crushed Limestone	654.3		9	2.68	15	Grey Sandy Clay LOAM, A-4 to A-6, hard		35	5	6-8	4.19	10
Brown CLAY, A-6, very stiff			4	4.4				619.2				
			5	4.7	15	Grey CLAY, A-6, very stiff						
			5	6.8	15			40	6	10-12	2.87	21
to Brown and Grey, hard			10	10.12	15							
			5	7.10	16							
			7	10.12	15							
			10	10.12	15			45	8	9-11	2.75	15
			5	7.10	16							
Grey Silty Clay LOAM, A-6(6), very stiff to stiff	642.7		4	3.45	16	Grey SAND, A-2, medium dense	609.7					
			15	4.5				50	8	9-9	--	19
			4	4.5	16							
wel sand seam at 18'			7	5.4	21	Grey CLAY, A-6, hard	603.7					
			20	5.4								
			3	4.5	18			55	8	10-12	4.5	13
			25	4.4	17	Grey Silt LOAM to SILT, A-4, dense	599.2					
			3	4.4	17							
			3	4.8	17	End of Boring at 60'	595.7	60	12	18-27	--	16
			30	6.9	16							
Grey Sandy Clay LOAM, A-4 to A-6	624.2											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
 The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

NOTES:

1. For locations of borholes, see Sheet 33.

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 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606 / 312-372-3011 (P)



USER NAME = Personal	DESIGNED - MM	REVISED -
PLOT SCALE = 0.167' / in.	DRAWN - MM	REVISED -
PLOT DATE = 5/16/2024	CHECKED - RH	REVISED -
	DATE - 6/10/2024	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS - 1
 STRUCTURE NO. 049-6851

SHEET 37 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	69
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

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Lombard, IL 60148
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Fax: 630-953-9928

BORING LOG BSB-02 Page 1 of 3

WEI Job No.: KE235065

Datum: NAVD 88
Elevation: 650.96 ft
North: 2036754.39 ft
East: 1122064.57 ft
Station: 302+90.35
Offset: 30' L

Client: H.W. Lochner, Inc.
Project: Lake Woodbine Bridge - Phase II Design
Location: Lake Forest, Illinois

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
650.0	4-inch thick ASPHALT --PAVEMENT--	0	1	3				650.0		0	1	3			
850.0	8-inch thick, gray SANDY GRAVEL --AGGREGATE BASE--	1	2	4		1.38	19	850.0		1	2	4		1.38	19
	Stiff to hard, brown, black, and gray SILTY CLAY LOAM to CLAY LOAM, trace gravel, damp --FILL--	2	3	5		3.28	15			2	3	5		3.28	15
		3	4	7		4.51	17			3	4	7		4.51	17
		4	4	8		4.37	16			4	4	8		4.37	16
		5	2	2		0.82	15			5	2	2		0.82	15
		6	3	4		1.23	19			6	3	4		1.23	19
		7	4	3		0.90	19			7	4	3		0.90	19
		8	3	3		1.23	18			8	3	3		1.23	18
640.5	Medium stiff to stiff, gray SILTY CLAY, trace gravel --RDR 2--	5	2	2		0.82	15	640.5		5	2	2		0.82	15
	-L ₁ (%)=26, P ₁ (%)=13 -%Gravel=4.3 -%Sand=17.6 -%Silt=48.9 -%Clay=29.1 -A-6 (7)														
614.2	Very stiff to hard, gray CLAY to SILTY CLAY, trace gravel, damp --RDR 2--	14	7	9		5.74	18	614.2		14	7	9		5.74	18

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	08-17-2023	Complete Drilling	08-18-2023
Drilling Contractor	WTS	Drill Rig	21GeoA[96%]
Driller	KG&AG	Logger	I. Romero
Checked by	C. Marin	Drilling Method	2.25" ID HSA to 10', mud rotary thereafter; backfilled upon completion
		While Drilling	49.50 ft
		At Completion of Drilling	10' mud
		Time After Drilling	NA
		Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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BORING LOG BSB-02 Page 2 of 3

WEI Job No.: KE235065

Datum: NAVD 88
Elevation: 650.96 ft
North: 2036754.39 ft
East: 1122064.57 ft
Station: 302+90.35
Offset: 30' L

Client: H.W. Lochner, Inc.
Project: Lake Woodbine Bridge - Phase II Design
Location: Lake Forest, Illinois

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
640.5	Gray SILT; saturated --RDR 2--	15	8	10		5.33	22	640.5		15	8	10		5.33	22
		16	24	50		3.69	14			16	24	50		3.69	14
		17	14	23		3.94	15			17	14	23		3.94	15
		18	15	12		5.74	18			18	15	12		5.74	18
634.2	Very stiff to hard, gray SILTY CLAY, trace gravel --RDR 2--	15	8	10		5.33	22	634.2		15	8	10		5.33	22

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	08-17-2023	Complete Drilling	08-18-2023
Drilling Contractor	WTS	Drill Rig	21GeoA[96%]
Driller	KG&AG	Logger	I. Romero
Checked by	C. Marin	Drilling Method	2.25" ID HSA to 10', mud rotary thereafter; backfilled upon completion
		While Drilling	49.50 ft
		At Completion of Drilling	10' mud
		Time After Drilling	NA
		Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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BORING LOG BSB-02 Page 3 of 3

WEI Job No.: KE235065

Datum: NAVD 88
Elevation: 650.96 ft
North: 2036754.39 ft
East: 1122064.57 ft
Station: 302+90.35
Offset: 30' L

Client: H.W. Lochner, Inc.
Project: Lake Woodbine Bridge - Phase II Design
Location: Lake Forest, Illinois

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample Type	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
656.7	Hard, gray SILTY LOAM to SILTY CLAY LOAM, trace gravel; damp --RDR 2--	9	13	19		5.33	15	656.7		9	13	19		5.33	15
		12	18	22		5.74	11			12	18	22		5.74	11
661.0	Boring terminated at 90.00 ft							661.0							

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling	08-17-2023	Complete Drilling	08-18-2023
Drilling Contractor	WTS	Drill Rig	21GeoA[96%]
Driller	KG&AG	Logger	I. Romero
Checked by	C. Marin	Drilling Method	2.25" ID HSA to 10', mud rotary thereafter; backfilled upon completion
		While Drilling	49.50 ft
		At Completion of Drilling	10' mud
		Time After Drilling	NA
		Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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WANGENGINC_KE235065.GPJ_WANGENG.GDT_8/22/23

NOTES:
1. For locations of borholes, see Sheet 33.



USER NAME	Personal	DESIGNED	MM	REVISED	-
PLOT SCALE	0.167' / in.	DRAWN	MM	REVISED	-
PLOT DATE	5/16/2024	CHECKED	RH	REVISED	-
		DATE	6/10/2024	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS - 3
STRUCTURE NO. 049-6851**

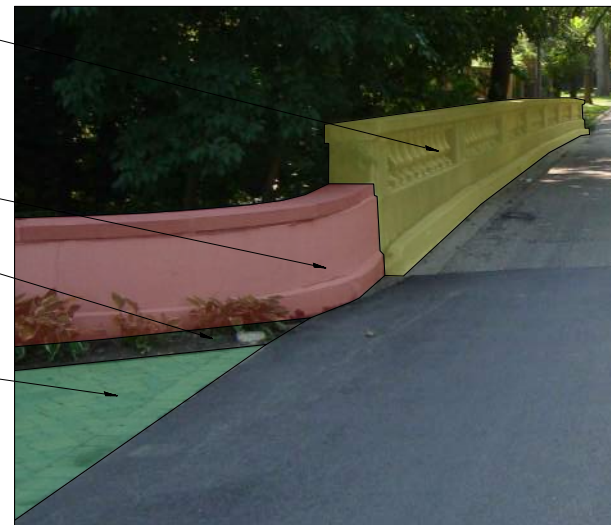
SHEET 39 OF 39 SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	71
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



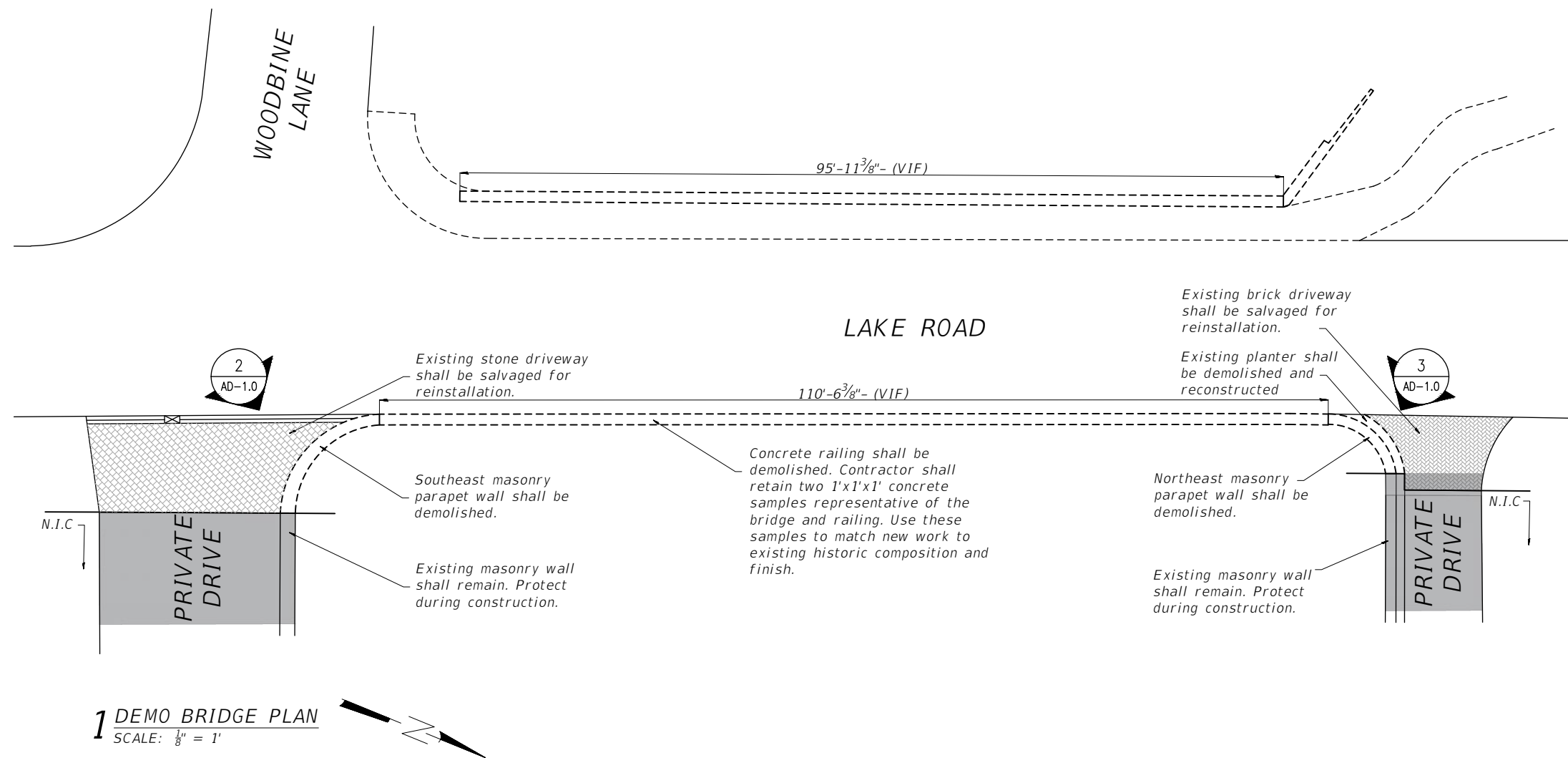
2 VIEW OF SE MASONRY WALL - LOCATION 2

- Demolish and replace bridge balustrade
- Demolish existing masonry wall including brick, substrate, foundation and footing
- Reconstruct existing privately-owned masonry wall in-kind to suit modified width of bridge structure
- Existing landscaping shall be demolished and reconstructed.
- Salvage and reinstall existing private driveway pavers. Assume 20% replacement of damaged pavers. Replacement pavers shall match existing pavers in dimensions, material and color.



3 VIEW OF NE MASONRY WALL - LOCATION 1

- GENERAL DEMOLITION NOTES:**
1. Drawings represent the existing plan conditions diagrammatically. Exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
 2. Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
 3. Prior to demolition, contractor shall document drive way and parapet walls at the north and east ends of the bridge for reconstruction.
 4. Contractor shall notify adjacent property owners before proceeding with the salvaging of brick drive way.
 5. Demolish existing bridge and railing, see structural drawings.



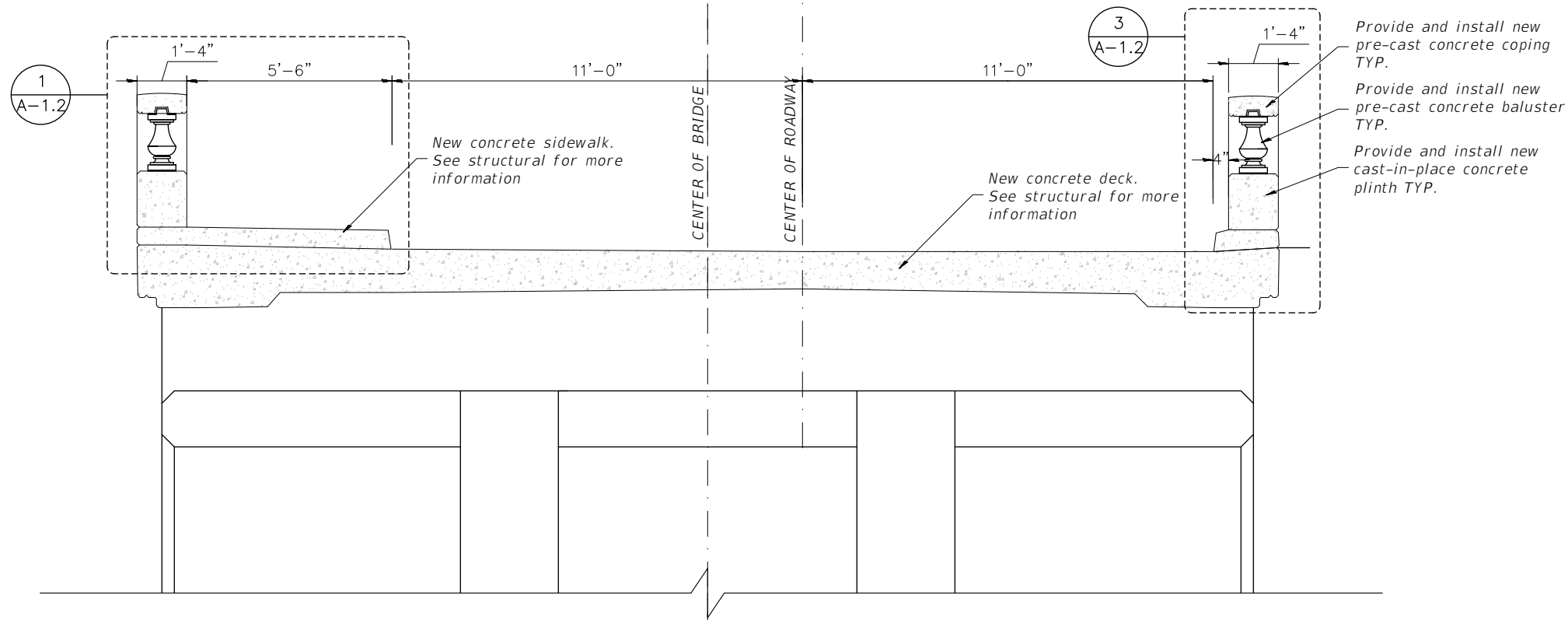
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PLOT DATE = 06/10/2024	DRAWN - HB	REVISED -
	DATE - 06-10-2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AD 1.0 - DEMO PLAN

SHEET AD 1.0 OF A-1.5 SHEETS

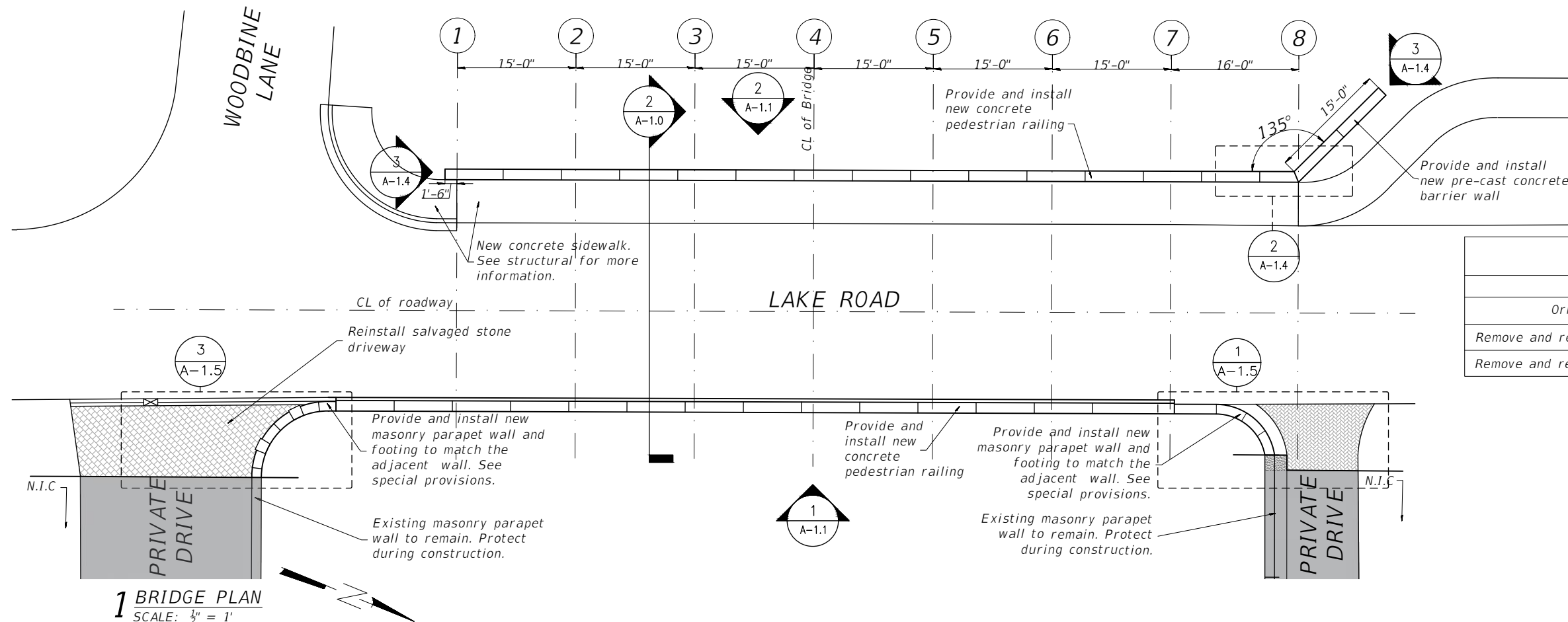
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	12-00094-00-BR	LAKE	86	72
			CONTRACT NO. 61K52	
ILLINOIS FED. AID PROJECT				



2 TYPICAL BRIDGE SECTION
SCALE: 1/2" = 1'

GENERAL CONSTRUCTION NOTES:

1. Drawings represent the existing plan conditions diagrammatically. Exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
2. Contractor shall retain two 1' x1' concrete samples representative of the bridge and railing, match new work to existing historic composition and finish.
3. For dimensions see structural sheet 1.
4. Details shown are intended to be indicative of the profiles and type of detailing required for the work. Conditions not covered by specific details must meet specified design criteria.
5. Details shown may not necessarily graphically included all components necessary to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
6. The contractor shall be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
7. All existing features to remain shall be protected during construction. All existing features to remain that is damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
8. All reinforcement shown is for representation purposes only. See special provisions for more information.
9. See Special Provisions for structural design requirements for ornamental railing.
10. Coordinate with barrier wall details on structural plans.
11. Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.



1 BRIDGE PLAN
SCALE: 1/2" = 1'

BILL OF MATERIALS		
ITEM	UNIT	TOTAL
Ornamental railing	LF	231
Remove and reconstruct wall - location 1	LF	13
Remove and reconstruct wall - location 2	LF	17

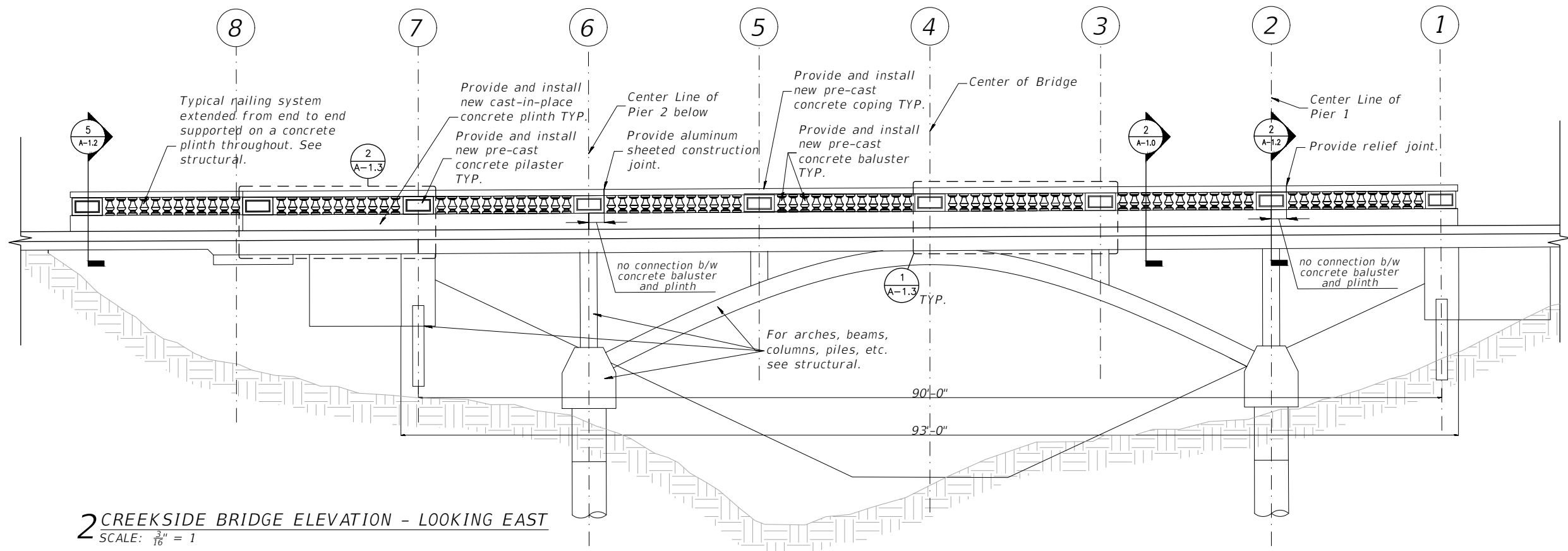


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	DATE - 06-10-2024	REVISED -

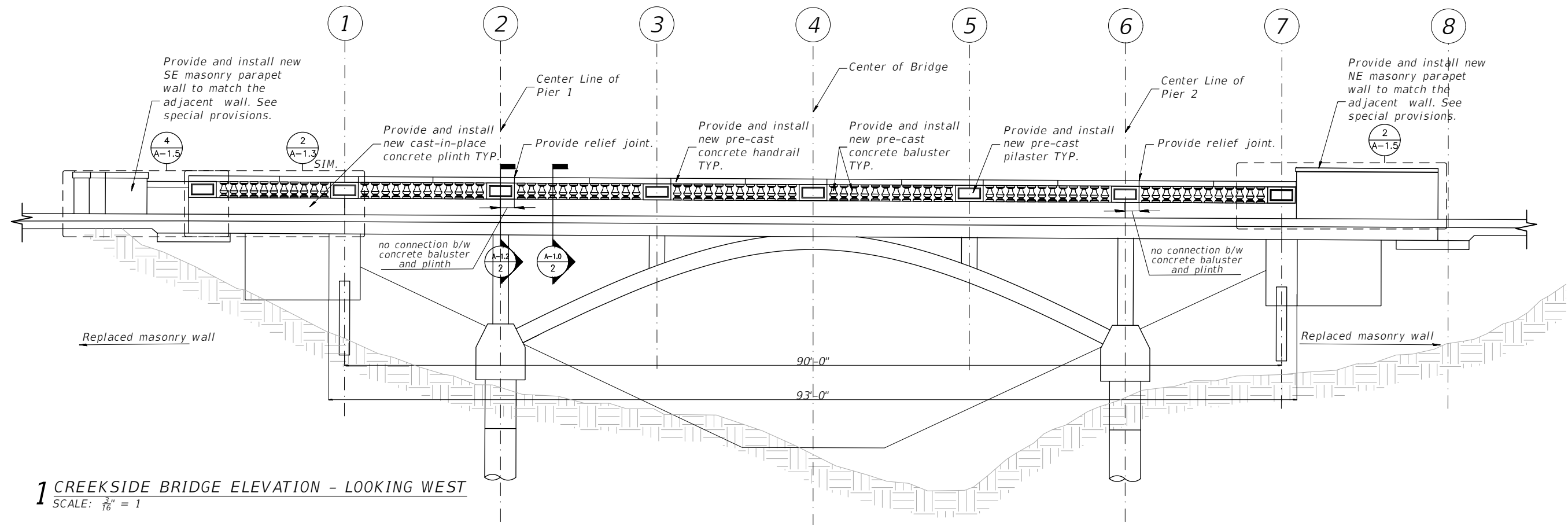
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

A1.0 -ARCHITECTURAL BRIDGE PLAN
AND SECTION
SHEET A1.0 OF A-1.5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	73
			CONTRACT NO. 61K52	
ILLINOIS FED. AID PROJECT				



2 CREEKSIDE BRIDGE ELEVATION - LOOKING EAST
 SCALE: $\frac{3}{16}'' = 1$



1 CREEKSIDE BRIDGE ELEVATION - LOOKING WEST
 SCALE: $\frac{3}{16}'' = 1$



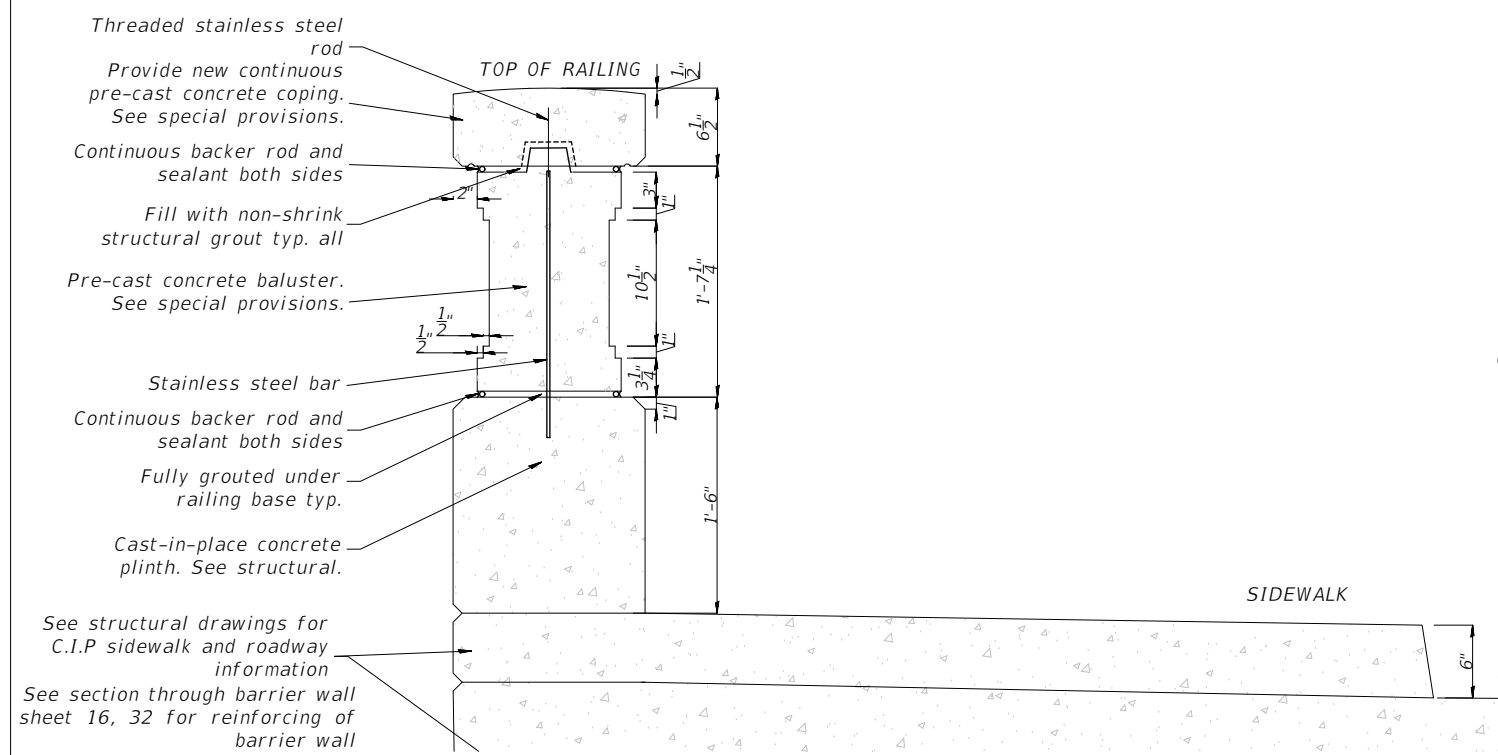
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	DATE - 06-10-2024	REVISED -

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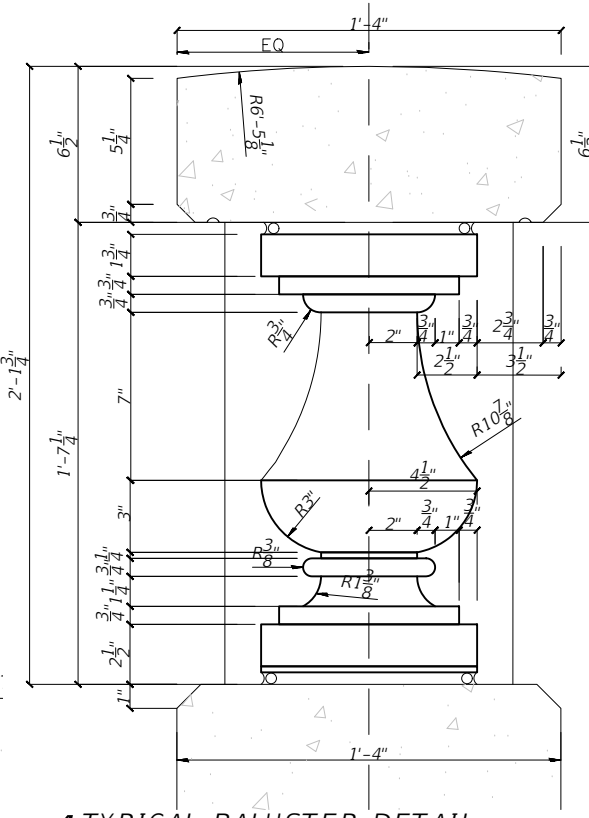
A1.1 - BRIDGE ELEVATIONS

SHEET A.1.1 OF A-1.5 SHEETS

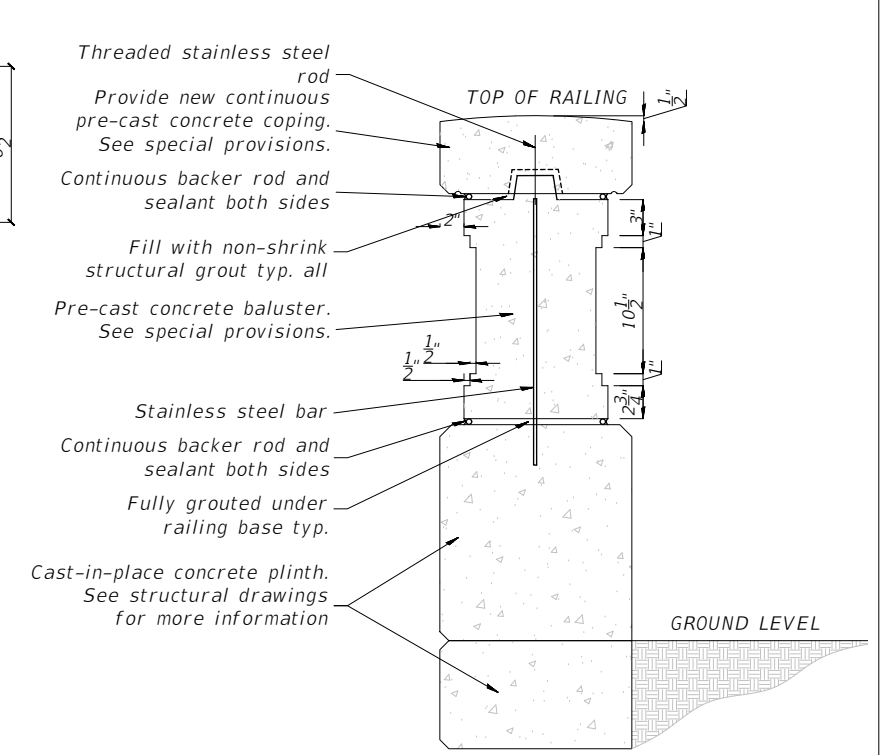
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			CONTRACT NO. 61K52	
ILLINOIS FED. AID PROJECT				



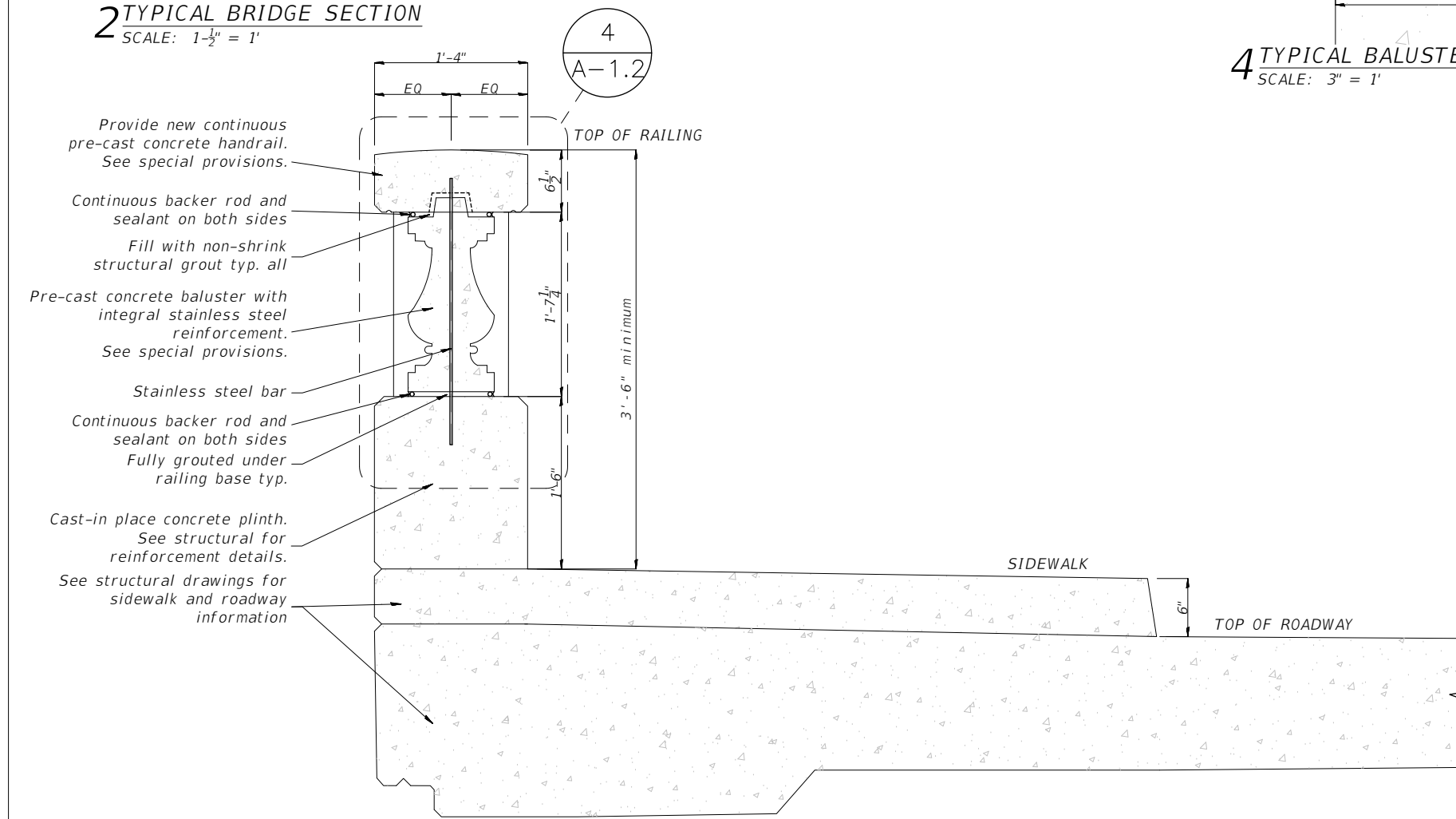
2 TYPICAL BRIDGE SECTION
SCALE: 1-1/2" = 1'



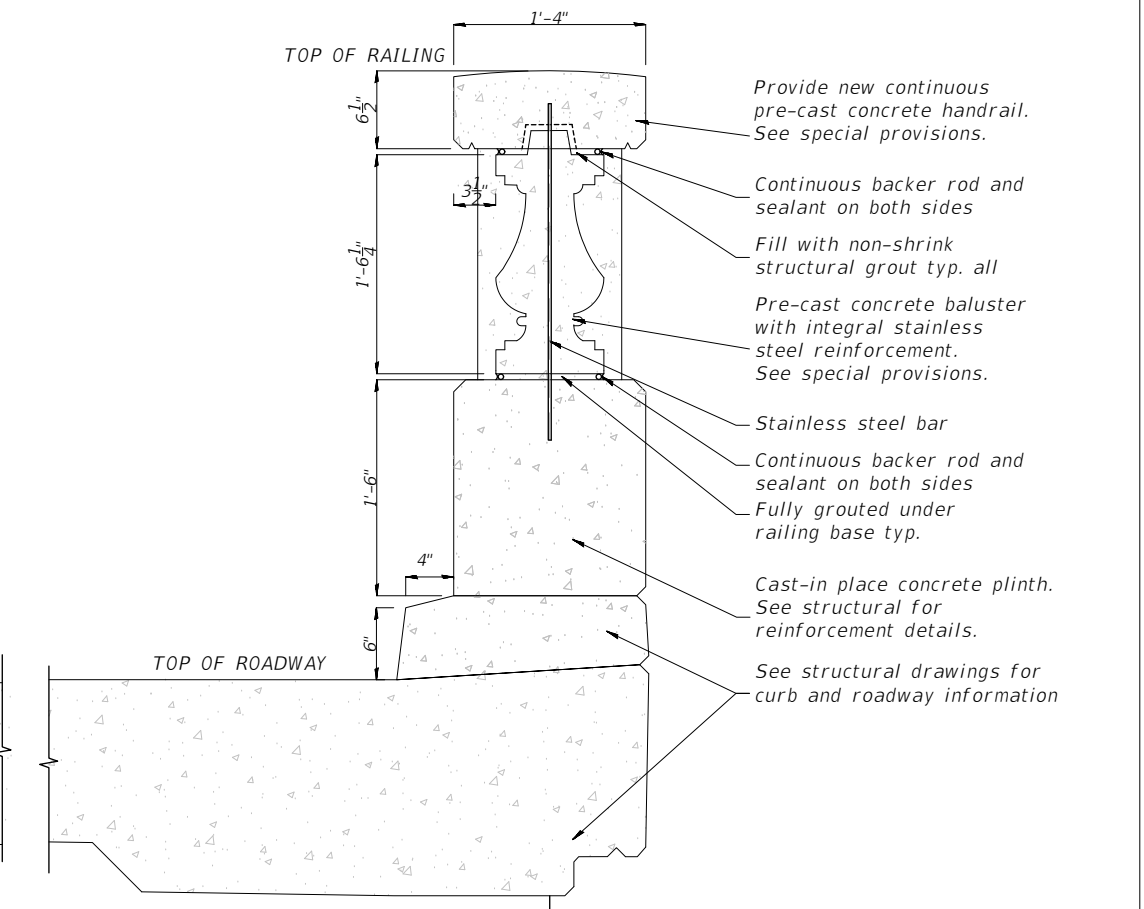
4 TYPICAL BALUSTER DETAIL
SCALE: 3" = 1'



5 SECTION THROUGH PARAPET WALL AT PILASTER
SCALE: 1-1/2" = 1'



1 RAILING SECTION
SCALE: 1-1/2" = 1'



3 RAILING SECTION
SCALE: 1-1/2" = 1'



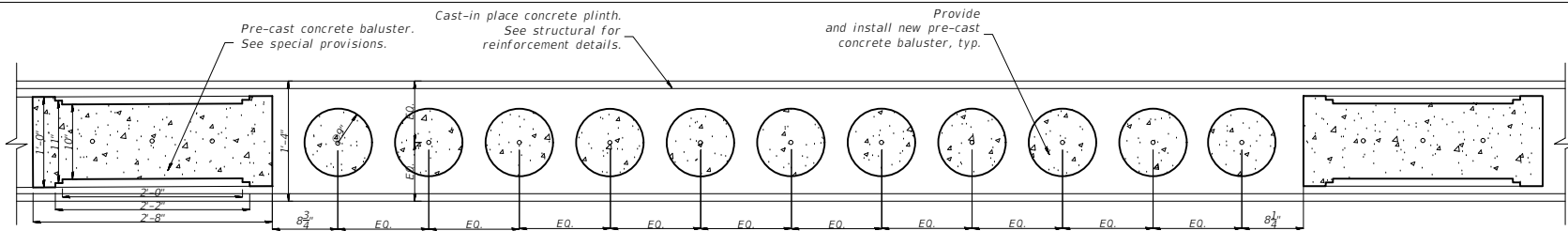
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	DATE - 06-10-2024	REVISED -

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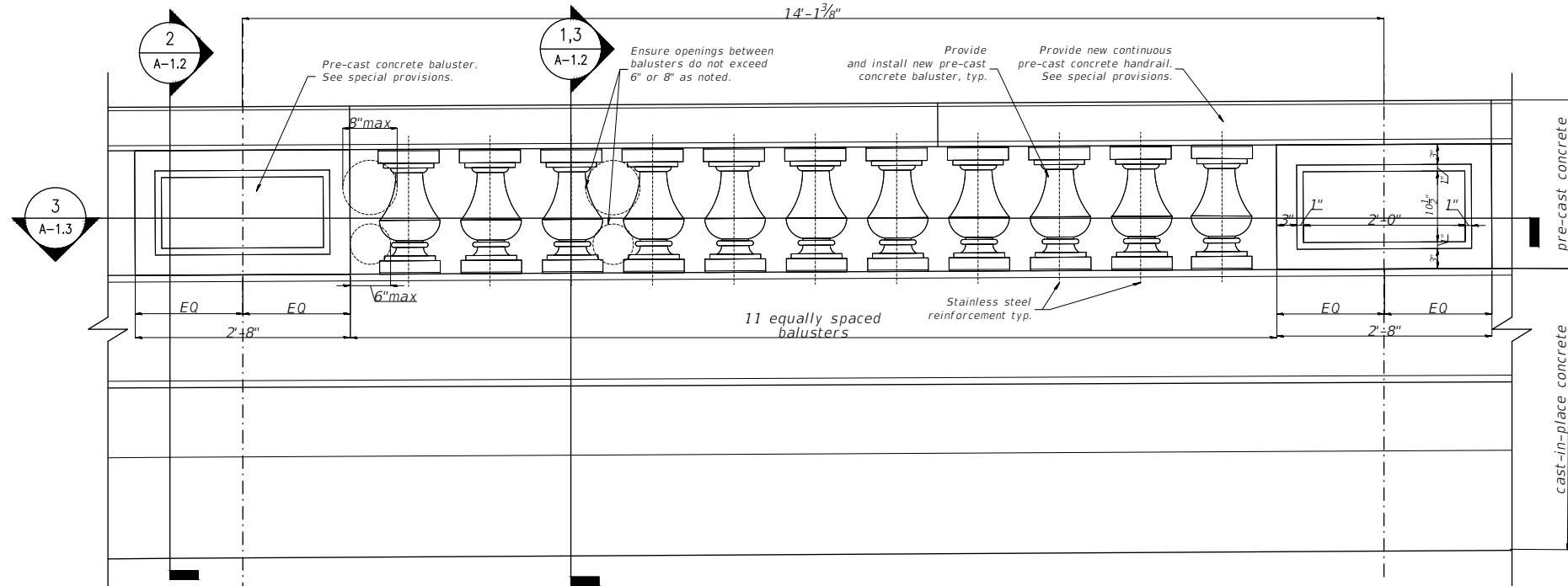
A1.2 - ORNAMENTAL RAILING DETAILS

SHEET A 1.2 OF A-1.5 SHEETS

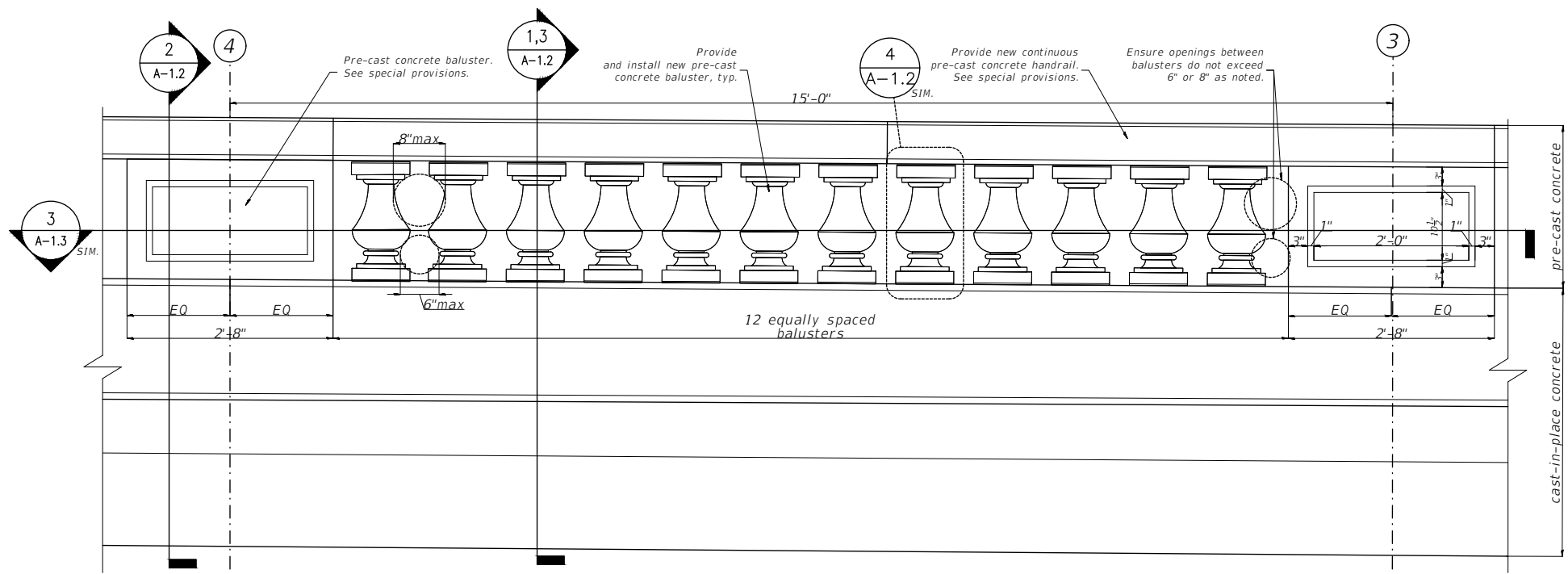
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	12-00094-00-BR	LAKE	86	75
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



3 TYPICAL RAILING SECTION
SCALE: 1" = 1'



2 RAILING ELEVATION
SCALE: 1" = 1'



1 TYPICAL RAILING ELEVATION
SCALE: 1" = 1'

GENERAL CONSTRUCTION NOTES:

1. Drawings represent the existing plan conditions are diagrammatically shown. Exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
2. Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
3. For dimensions see structural sheet 1.
4. Details shown are indicative of the profiles and type of detailing required for the work. Conditions are not covered by specific details and must meet specified design criteria.
5. Details shown may not necessarily graphically represent all components required to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
6. The contractor shall be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
7. All existing features to remain shall be protected during construction. All existing features to remain which are damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
8. All reinforcement shown is for representation purposes only. See special provisions for more information.
9. See Special Provisions for structural design requirements for ornamental railing.
10. Coordinate with barrier wall details on structural plans.
11. Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.



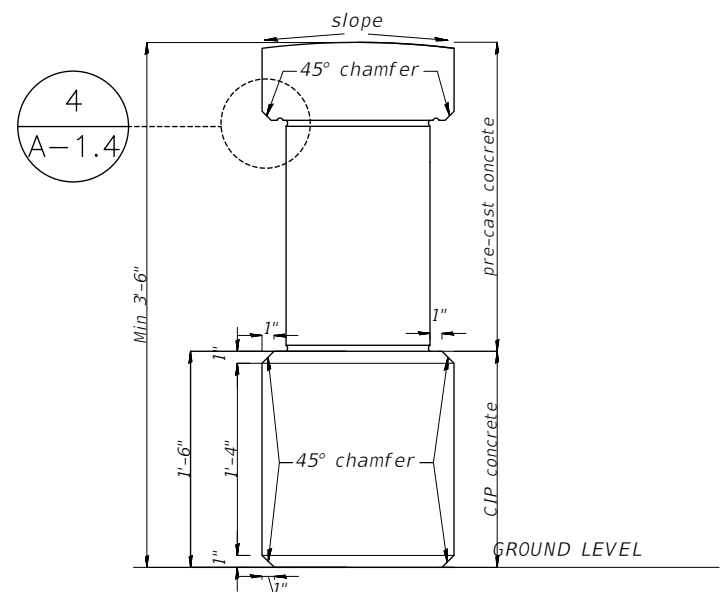
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

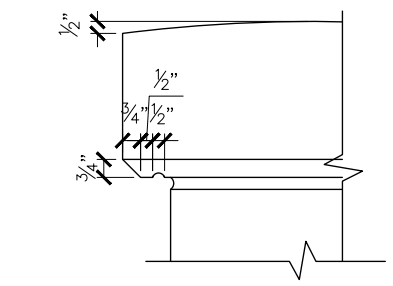
A1.3 - ORNAMENTAL RAILING DETAILS

SHEET A 1.3 OF A-1.5 SHEETS

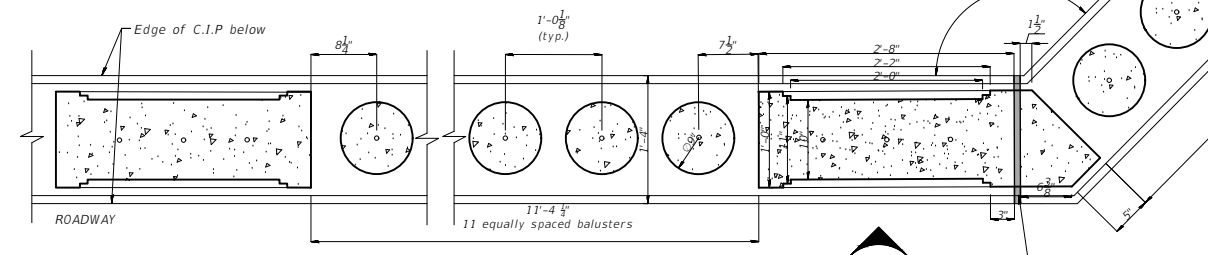
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			CONTRACT NO. 61K52	
ILLINOIS FED. AID PROJECT				



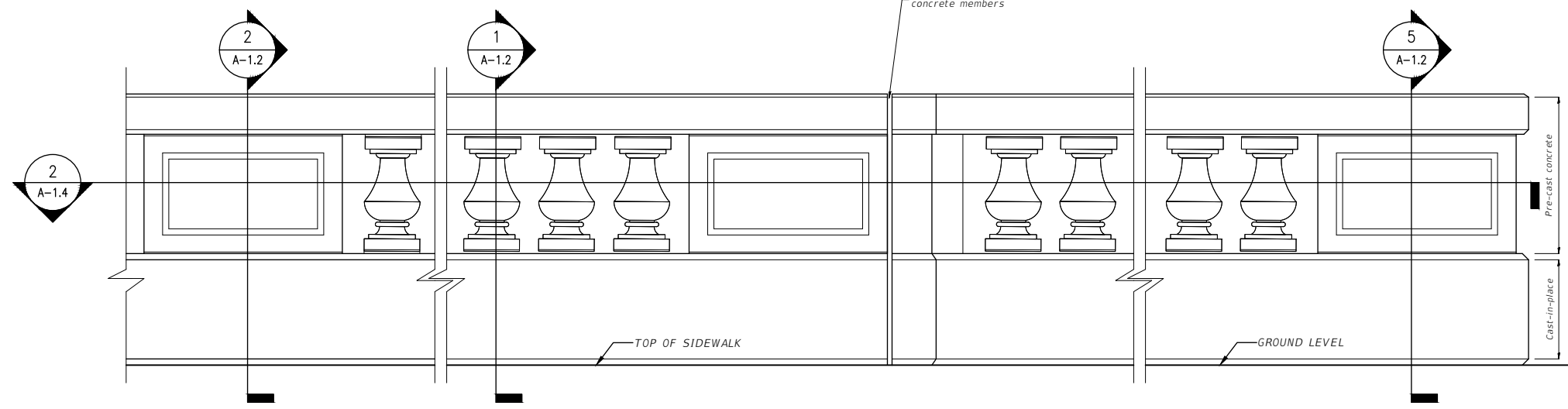
3 TERMINAL RAILING ELEVATION
SCALE: 1" = 1'



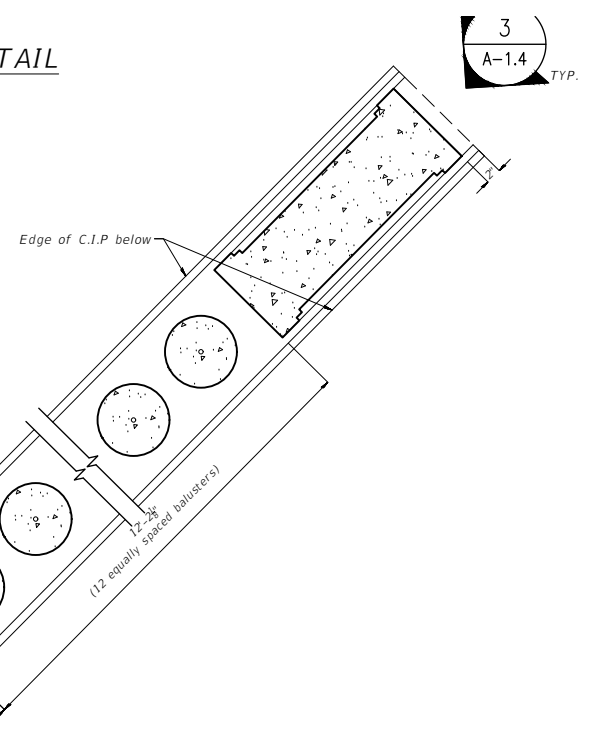
4 CONCRETE HANDRAIL DETAIL
SCALE: 3" = 1'



2 RAILING PLAN AT NW
SCALE: 1" = 1'



1 INTERIOR RAILING ELEVATION AT NE
SCALE: 1" = 1'



- GENERAL CONSTRUCTION NOTES:**
1. Drawings that represent the existing plan conditions are diagrammatically shown, exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
 2. Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing. match new work to existing historic composition and finish.
 3. For dimensions see structural sheet 1.
 4. Details shown are intended to be indicative of the profiles and type of detailing required for the work. Conditions are not covered by specific details and must meet specified design criteria.
 5. Details shown may not necessarily graphically represent all components necessary to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
 6. The contractor will be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
 7. All existing features to remain shall be protected during construction. all existing features to remain damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
 8. All reinforcement shown is for representation purposes only. See special provisions for more information.
 9. See Special Provisions for structural design requirements for ornamental railing.
 10. Coordinate with barrier wall details on structural plans.
 11. Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.



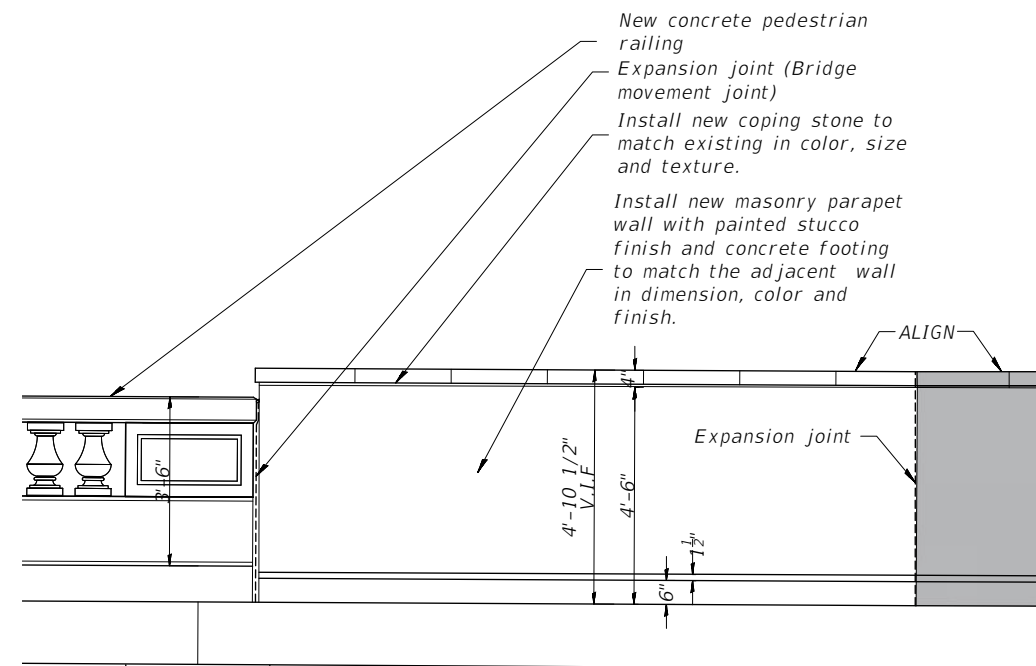
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

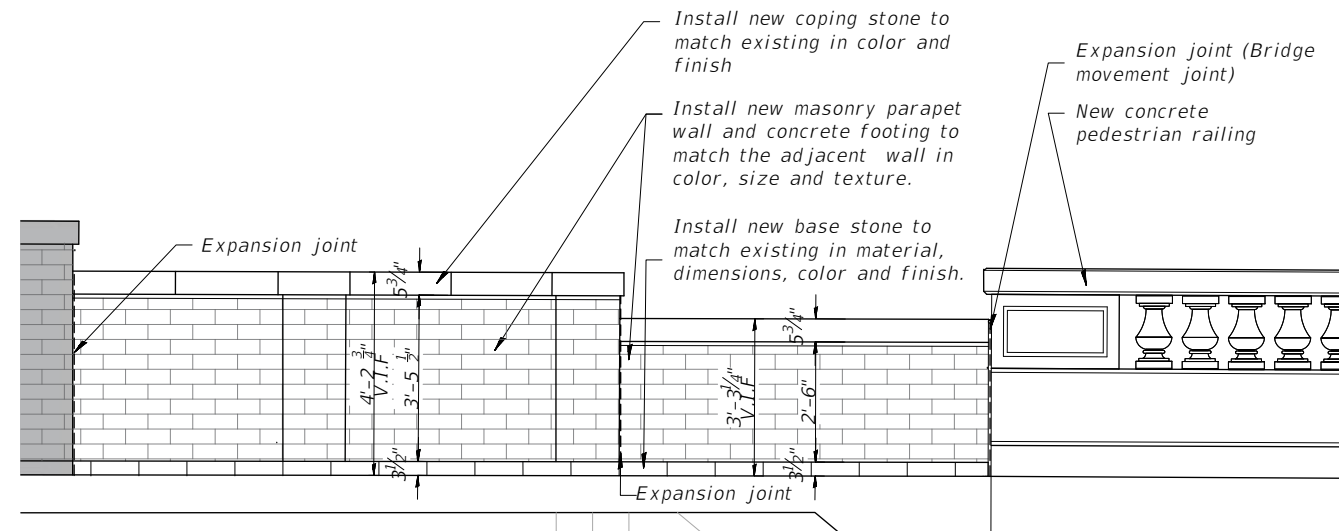
A1.4 - ORNAMENTAL RAILING DETAILS

SHEET A 1.4 OF A-1.5 SHEETS

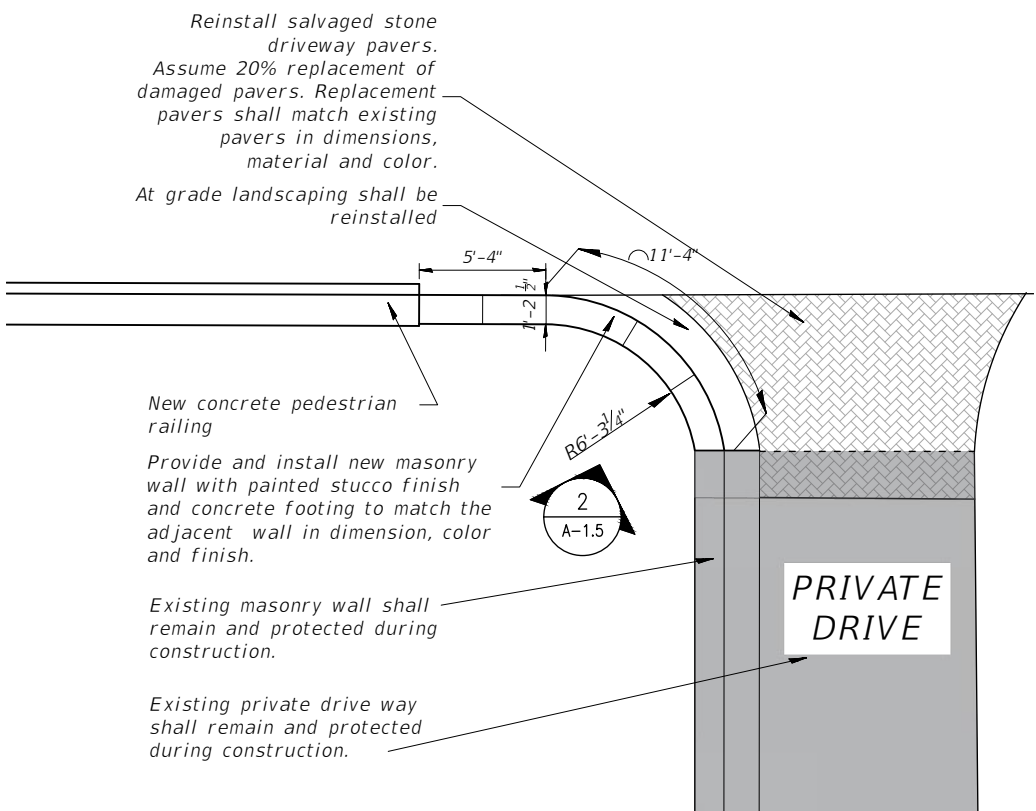
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-00094-00-BR	LAKE	86	77
			CONTRACT NO. 61K52	
ILLINOIS FED. AID PROJECT				



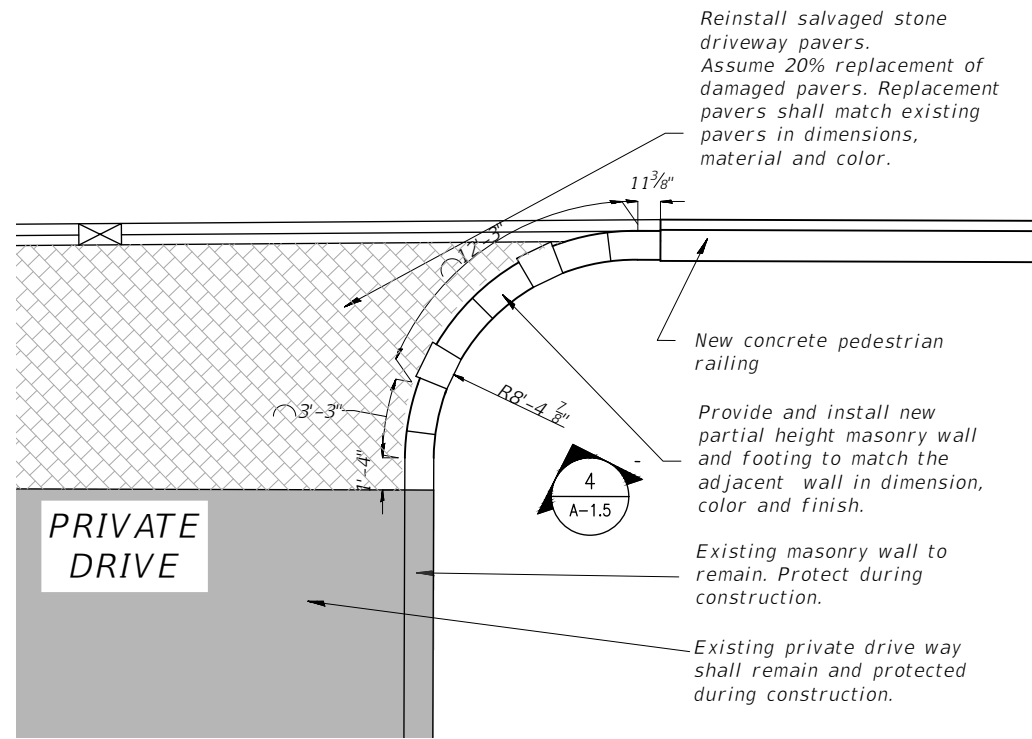
2 ELEVATION OF NORTHEAST PARAPET WALL - LOCATION 1
SCALE: 1/2" = 1'



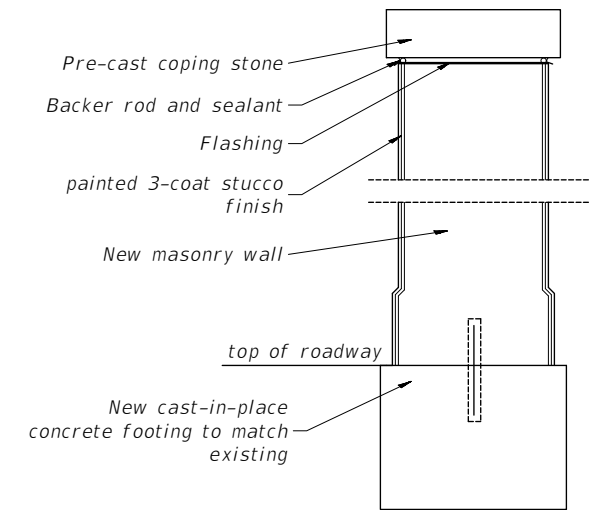
4 ELEVATION OF SOUTHEAST PARAPET WALL - LOCATION 2
SCALE: 1/2" = 1'



1 NEW WORK PLAN - NE PARAPET WALL - LOCATION 1
SCALE: 1/4" = 1'



3 NEW WORK PLAN - SE PARAPET WALL - LOCATION 2
SCALE: 1/4" = 1'



5 MASONRY WALL SECTION AT LOCATION 1
SCALE: 1 1/2" = 1'

- GENERAL CONSTRUCTION NOTES:**
1. Drawings that represent the existing plan conditions are diagrammatically shown, exact locations, sizes, extent and conditions of the existing construction to be removed, salvaged or to remain shall be verified at the site by the contractor.
 2. Contractor shall retain two 1' x1'x1' concrete samples representative of the bridge and railing, match new work to existing historic composition and finish.
 3. For dimensions see structural sheet 1.
 4. Details shown are intended to be indicative of the profiles and type of detailing required for the work. Conditions are not covered by specific details and must meet specified design criteria.
 5. Details shown may not necessarily graphically represent all components necessary to complete the total system. The contractor shall be responsible to coordinate all of the requirements shown on the drawings with those stated in the applicable specifications and project notes to provide a complete system.
 6. The contractor will be responsible for construction means, methods, techniques, sequences, procedures and programs in connection with the work. All work shall meet the quality requirements noted in the contract documents.
 7. All existing features to remain shall be protected during construction. all existing features to remain damaged by the work of this project shall be patched to match adjacent surfaces in finish, color, and texture unless otherwise indicated.
 8. All reinforcement shown is for representation purposes only. See special provisions for more information.
 9. See Special Provisions for structural design requirements for ornamental railing.
 10. Coordinate with barrier wall details on structural plans.
 11. Contractor is responsible for providing all necessary engineering for all pre-cast architectural concrete elements including reinforcing, support and anchoring components.



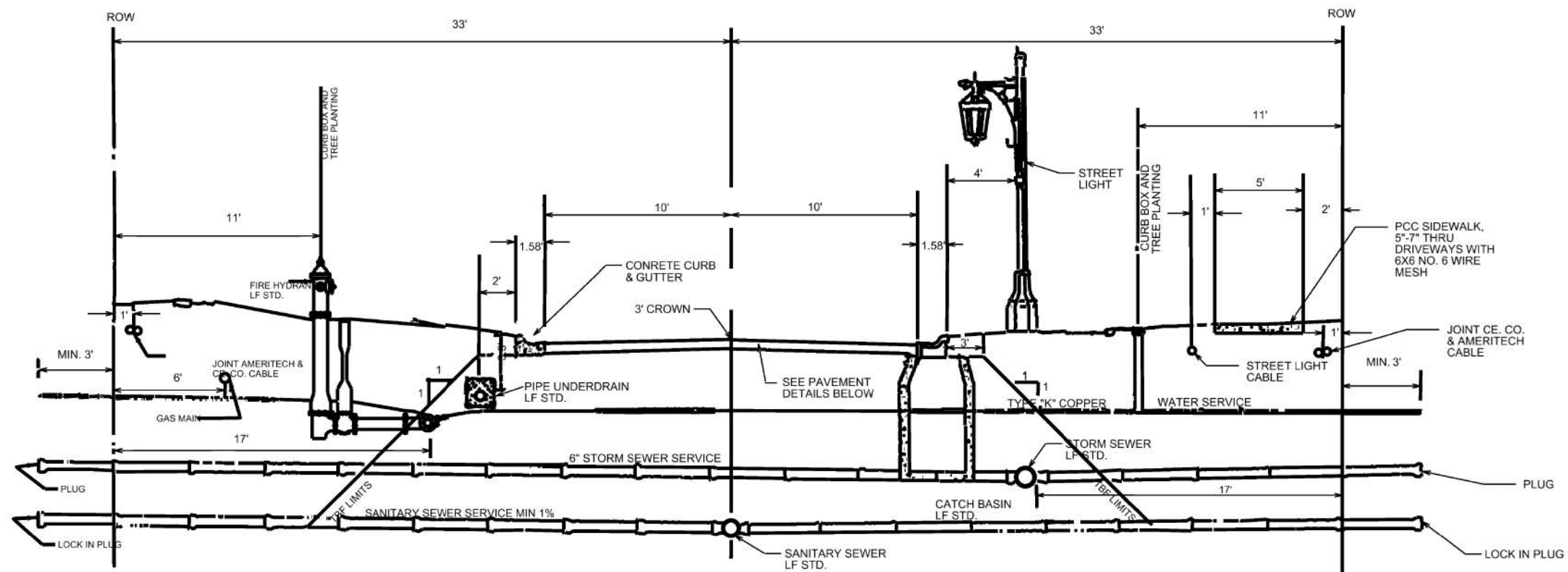
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PLOT SCALE = AS SPECIFIED	CHECKED - TS, SDT	REVISED -
PLOT DATE = 06/10/2024	DRAWN - HB	REVISED -
	DATE - 06-10-2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

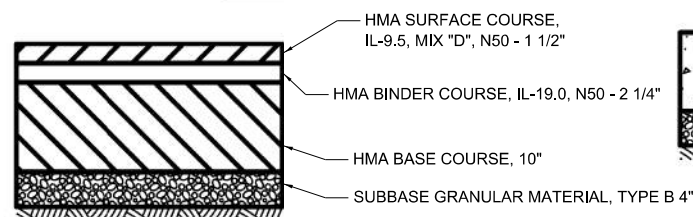
A1.5 - PARAPET WALL DETAILS

SHEET A1.5 OF A-1.5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 61K52	
ILLINOIS FED. AID PROJECT				

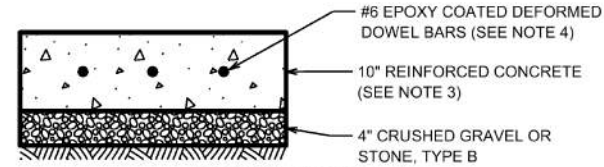


ALTERNATE 1



PAVEMENT DETAIL

ALTERNATE 2



PAVEMENT DETAIL

NOTES:

1. CURB AND GUTTER SHALL BE SHAPED TO FIT CATCH BASIN FROM A POINT 10' EACH SIDE OF BASIN.
2. PARKWAY SHALL BE GRADED AND SEEDED. MIN. SLOPE 1/2" PER FOOT, MAX. SLOPE 4" PER FOOT. WHERE SIDEWALKS ARE TO BE CONSTRUCTED THE MAX. SLOPE WILL BE 1" PER FOOT.
3. PORTLAND CEMENT CONCRETE PAVEMENT SHALL CONFORM TO SECTION 420 OF THE IDOT STANDARD SPECIFICATIONS.
4. #6 EPOXY COATED DOWEL BAR SHALL CONFORM TO ARTICLE 1006.11 OF THE STANDARD SPECIFICATIONS, BE 24" LONG, AND SPACED A MAXIMUM OF 24" APART ALONG ALL JOINTS.

TYPICAL CROSS-SECTION FOR STREET IMPROVEMENTS IN RESIDENTIAL AREAS

LAKE FOREST STANDARD 2.03
APPROVED BY : KMM
DATE : 4/23/2009
 G:\Engineer\Standard Details\... \X-Section Residential Streets 2-03

MODEL LF STANDAARDS - 1
 FILE NAME: ...
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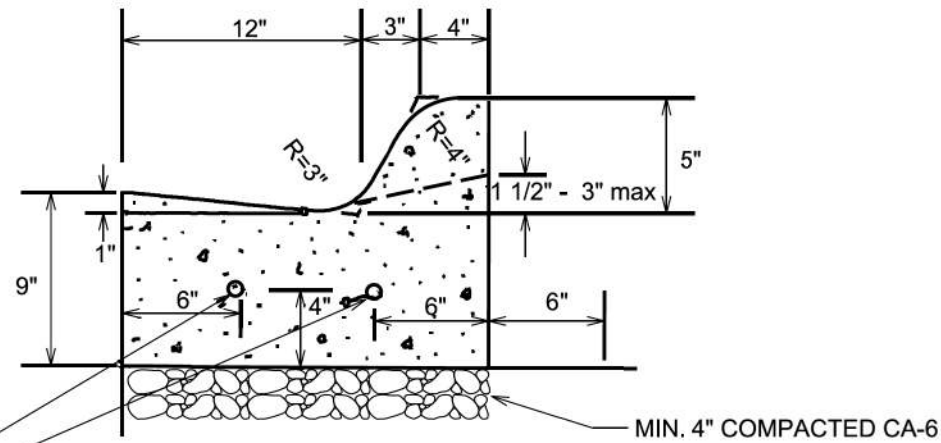


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DRAWN	GG	CHECKED	JN	REVISED	-
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PLOT DATE	5/24/2024				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

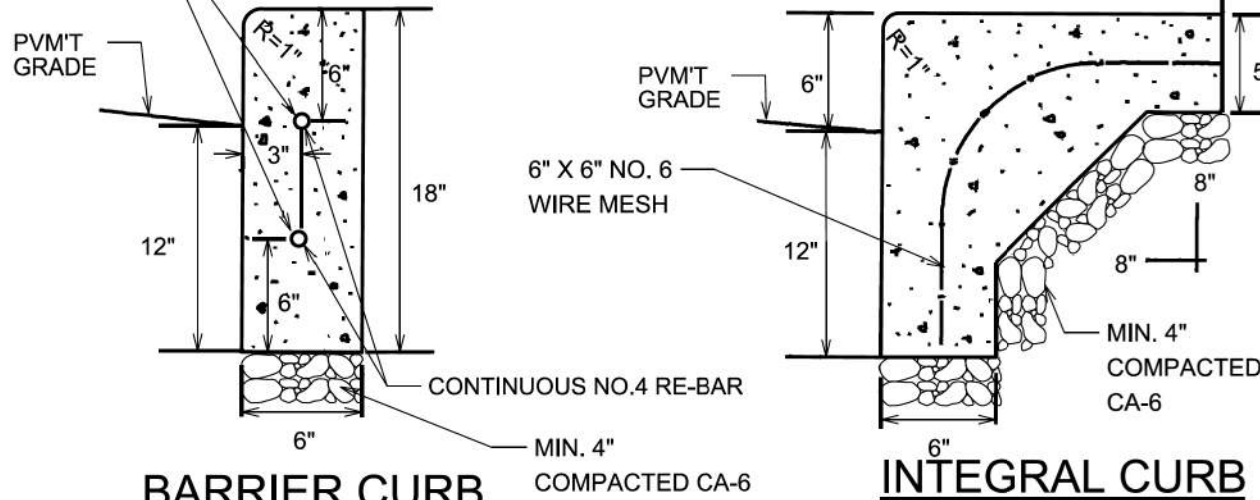
LAKE FOREST STANDARDS LAKE WOODBINE BRIDGE
 SCALE: N/A SHEET 1 OF 8 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	79
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



CURB AND GUTTER

3/4" GREASED AND CAPPED DOWEL BARS
24" LONG, AT 50' INTERVALS, AND SET ON
CHAIRS TO MAINTAIN ALIGNMENT.



BARRIER CURB

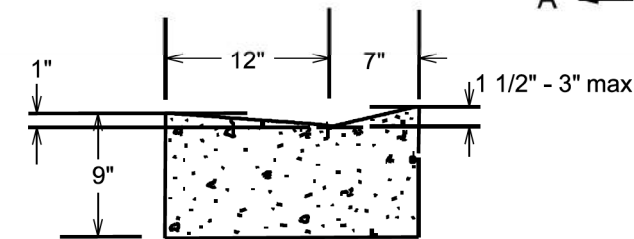
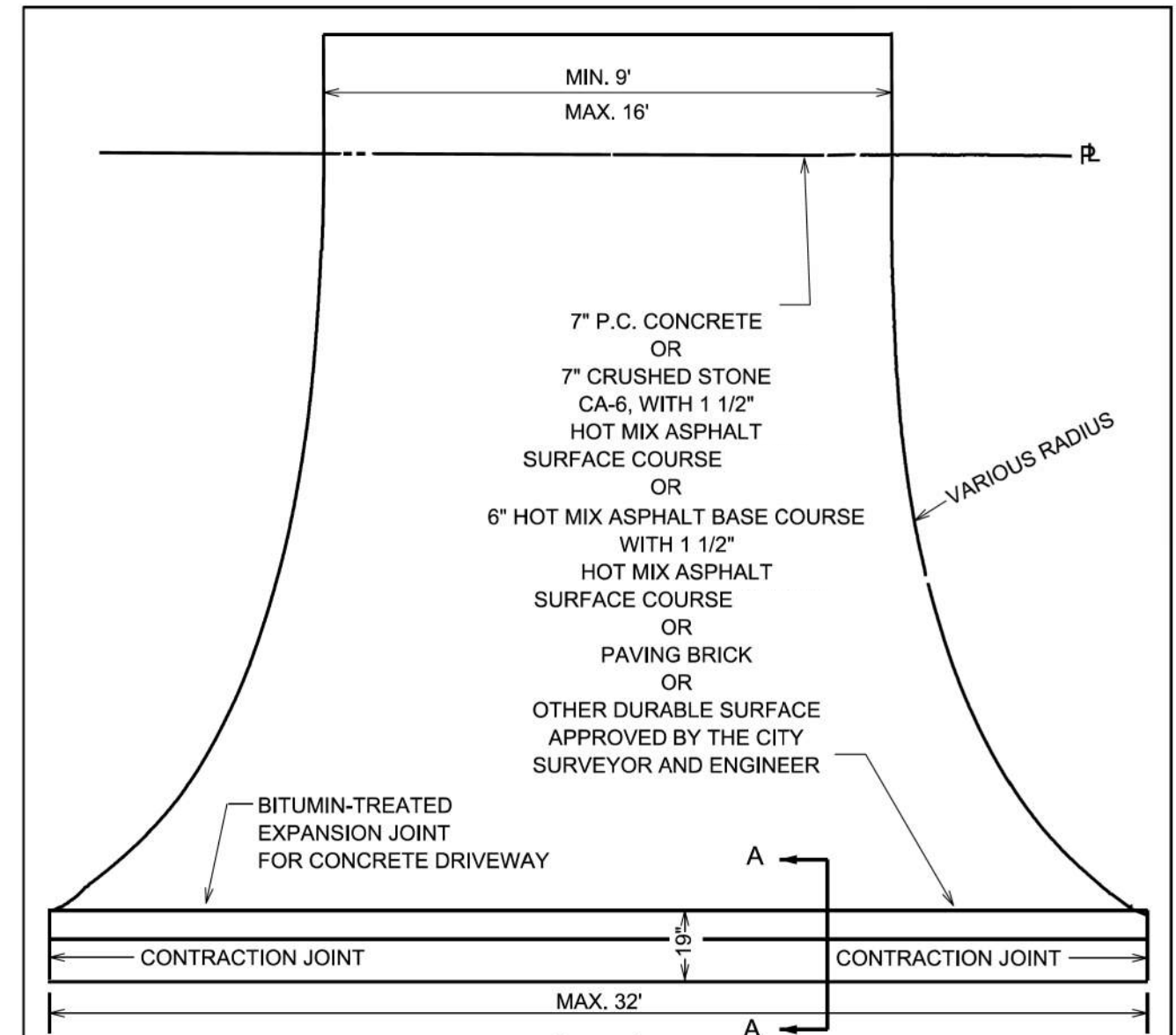
INTEGRAL CURB

1. INSTALL PREFORMED EXPANSION JOINT FILLER, BITUMEN TREATED, CUT TO SHAPE OF CURB AND GUTTER, BARRIER CURB OR INTEGRAL CURB, AT 50' INTERVALS,
2. SAWCUT CONTRACTION JOINTS AT 25' INTERVALS
3. TWO (2) 10 FEET LONG NO. 4 RE-BARS OVER ALL TRENCHES
4. TWO CONTINUOUS NO.4 RE-BARS ARE TO BE INSTALLED IN ALL BARRIER CURB.
5. TWO (2) 24 INCH LONG NO. 4 DOWEL BARS AT ALL CONNECTIONS BETWEEN NEW CURB AND EXISTING CURB AND AT ALL EXPANSION JOINTS.
6. CONTRACTOR MUST CALL FOR AN INSPECTION PRIOR TO POURING THE CURB

STANDARD CURB SECTIONS

LAKE FOREST STANDARD 2.06
APPROVED BY : KMM
DATE : 1/1/2006

G:\Engineer\Standard Details\Standard Curb 2-06



SECTION A - A

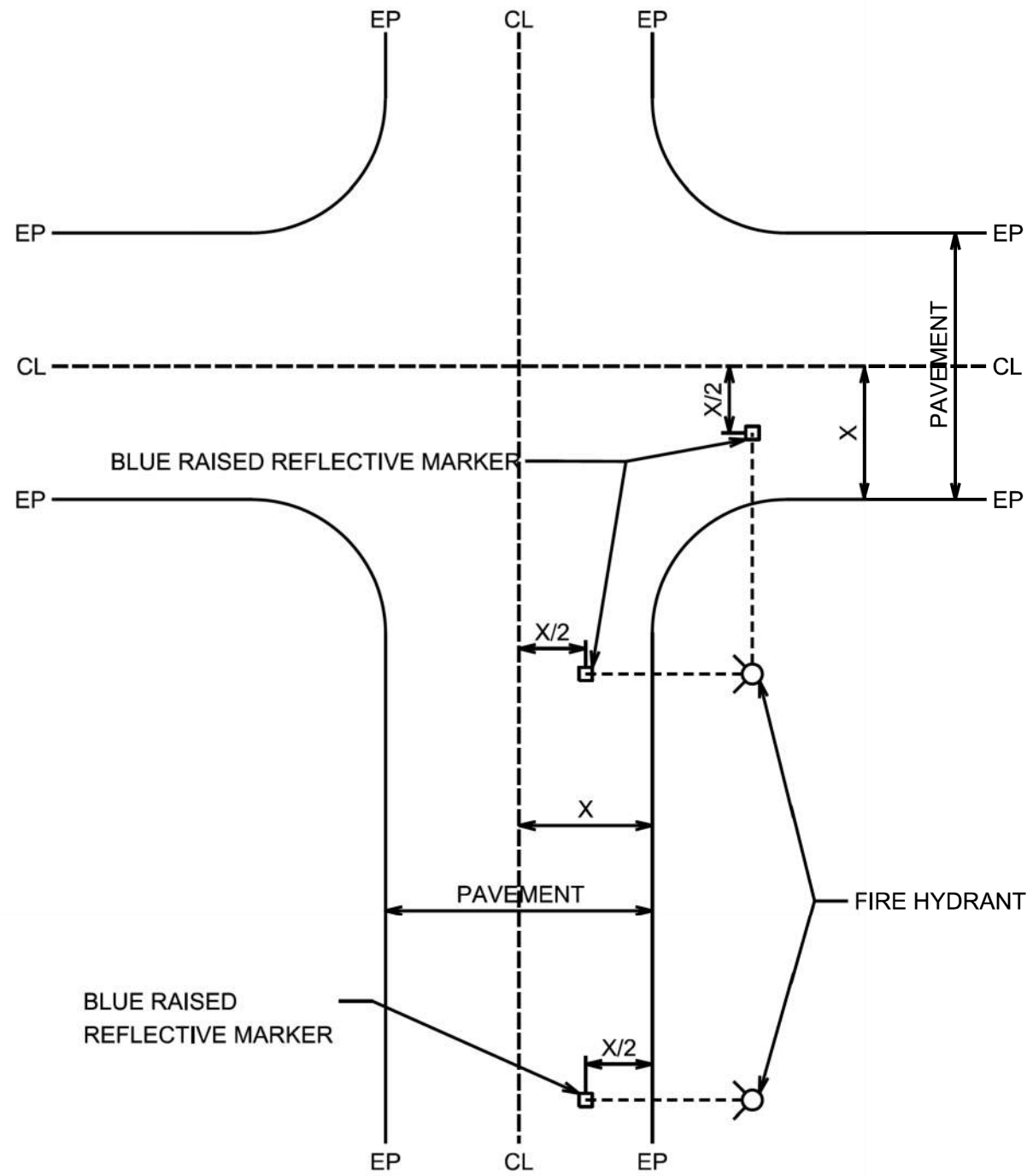
RESIDENTIAL DRIVE APPROACH

CONTRACTOR MUST CALL FOR AN INSPECTION
PRIOR TO PLACING/POURING THE APPROACH

LAKE FOREST STANDARD 2.07
APPROVED BY : KMM
DATE : 2/19/2009

G:\Engineer\Standard Details\Drive Approach

MODEL: L.F. STANDARDS - 2
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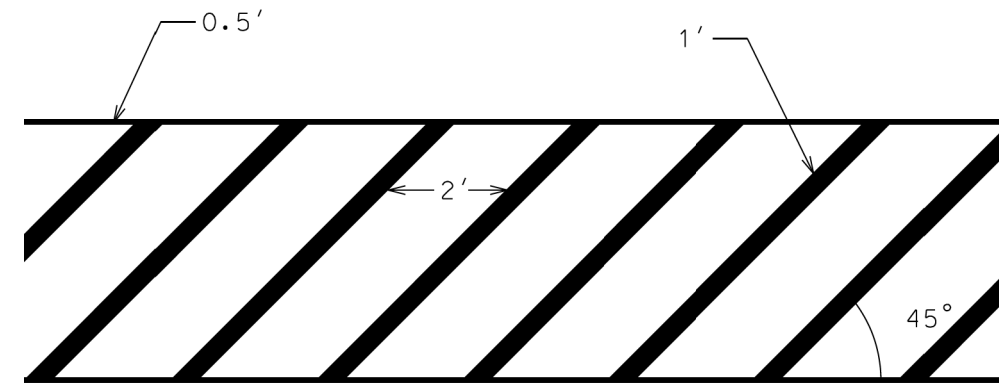


RAISED REFLECTIVE PAVEMENT MARKERS

NTS

LAKE FOREST STANDARD 2.16
APPROVED BY : KMM
DATE : 1/1/2006

G:\Engineer\Standard Details\ Reflective Pavement Markers 2-16



TYPICAL CROSSWALK

NTS

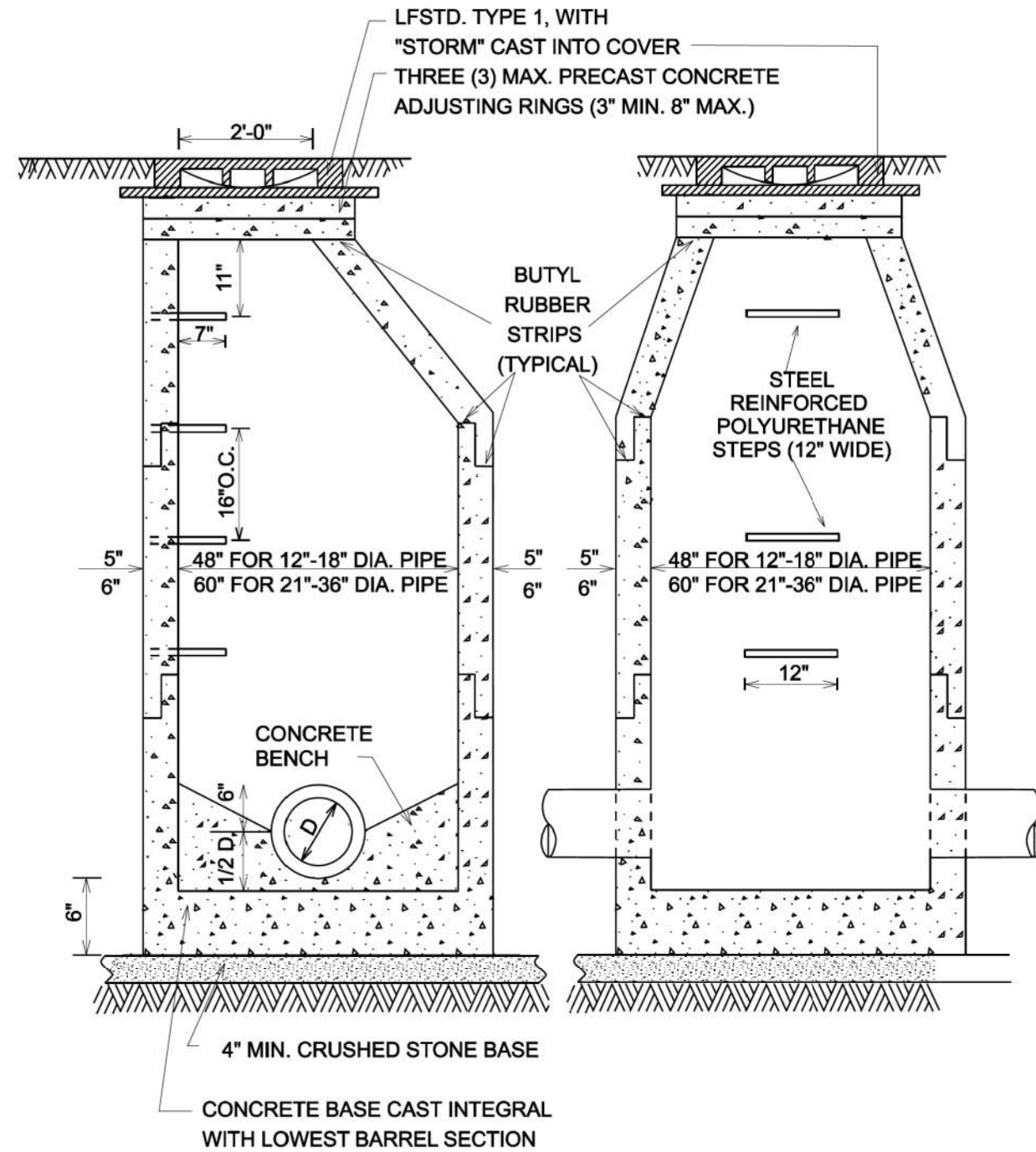
LAKE FOREST STANDARD
APPROVED BY : KMM
DATE : 11/18/2010

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MODEL: L_F STANDARDS - 4
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USER NAME	Personal	DESIGNED	GG	REVISED	-
DRAWN	GG	CHECKED	JN	REVISED	-
PLOT SCALE	-	DATE	6/10/2024	REVISED	-
PLOT DATE	5/24/2024				

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	82
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



TYPE A STORM MANHOLE DETAIL

NOT TO SCALE

NOTES:

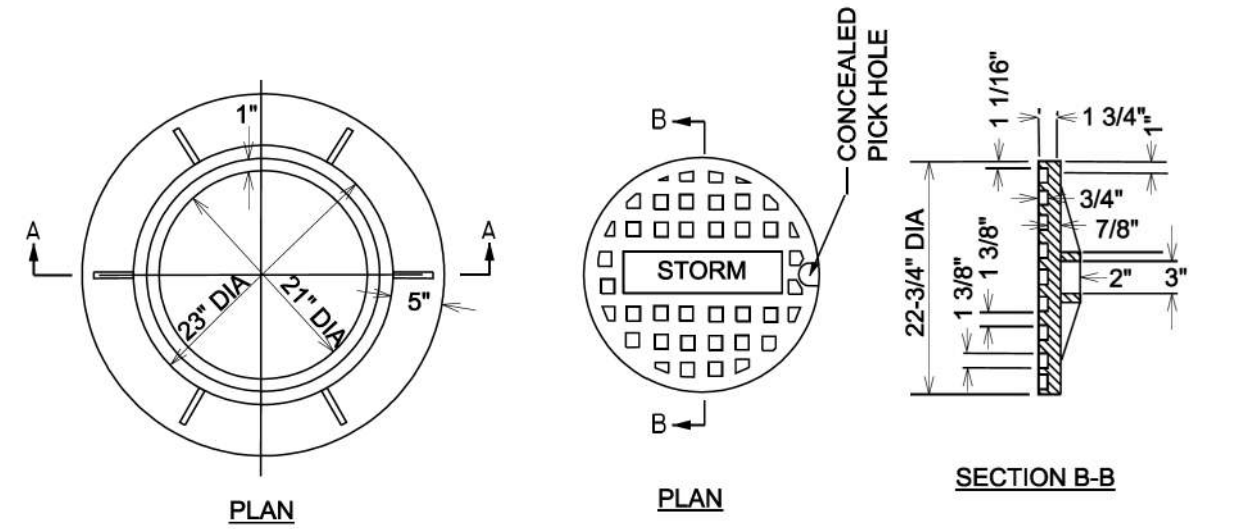
1. MANHOLES MUST CONFORM TO ASTM C-478.
2. MANHOLE SECTIONS TO BE TONGUE AND GROOVED.
3. BENCHES MUST BE PROVIDED IN ALL STORM SEWER MANHOLES.
4. ALL PIPE PENETRATIONS TO BE CORED, AND MORTARED INSIDE AND OUTSIDE OF STRUCTURE WITH HYDRAULIC CEMENT.

LAKE FOREST STANDARD 3.01

APPROVED BY : KMM

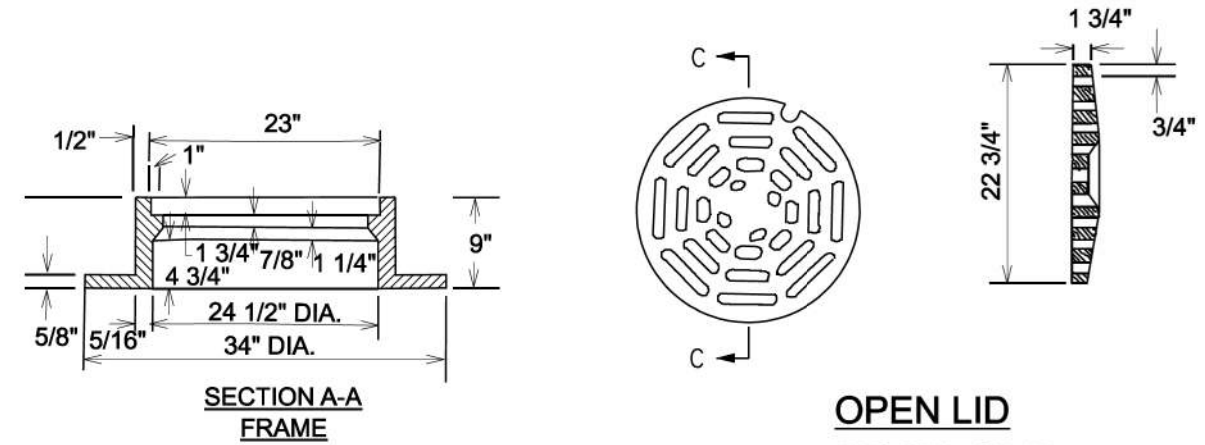
DATE : 1/1/2006

G:\Engineer\Standard Details\Storm Manhole Type A 3-01



SELF SEALING CLOSED LID

DESIGNATION 1-C



SECTION A-A FRAME

OPEN LID

DESIGNATION 1-P

TYPE 1 LID AND FRAME FOR STORM MANHOLE

LAKE FOREST STANDARD 3.02

APPROVED BY : KMM

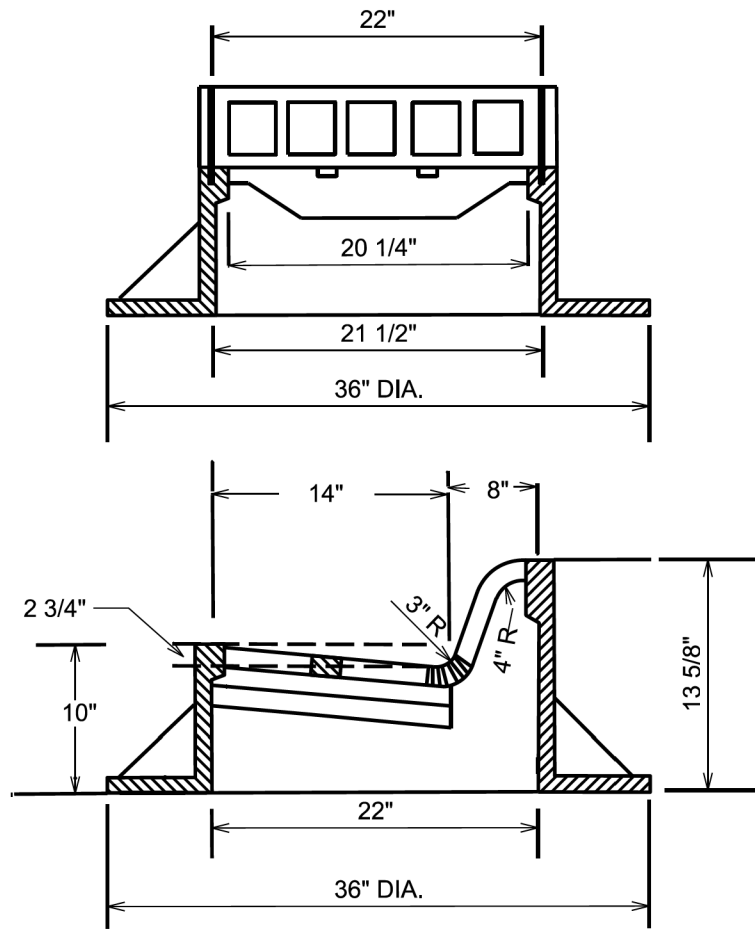
DATE : 1/1/2006

G:\Engineer\Standard Details\Storm TY 1 Frame & Grate 3-02

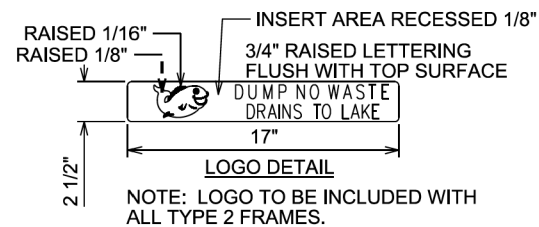
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FILE NAME: P:\Documents\Projects\000030201\6.0_CAD\General\20201-SHT-HWL-GEN-STD-ARDS.dgn

USER NAME	Personal	DESIGNED	GG	REVISED	-
PLOT SCALE	-	DRAWN	GG	REVISED	-
PLOT DATE	5/24/2024	CHECKED	AM	REVISED	-
		DATE	6/10/2024	REVISED	-

**TYPE 2 FRAME AND GRATE FOR
L.F. STD. CURB AND GUTTER**



PREFORMED EXPANSION JOINT



NOTE: LOGO TO BE INCLUDED WITH ALL TYPE 2 FRAMES.

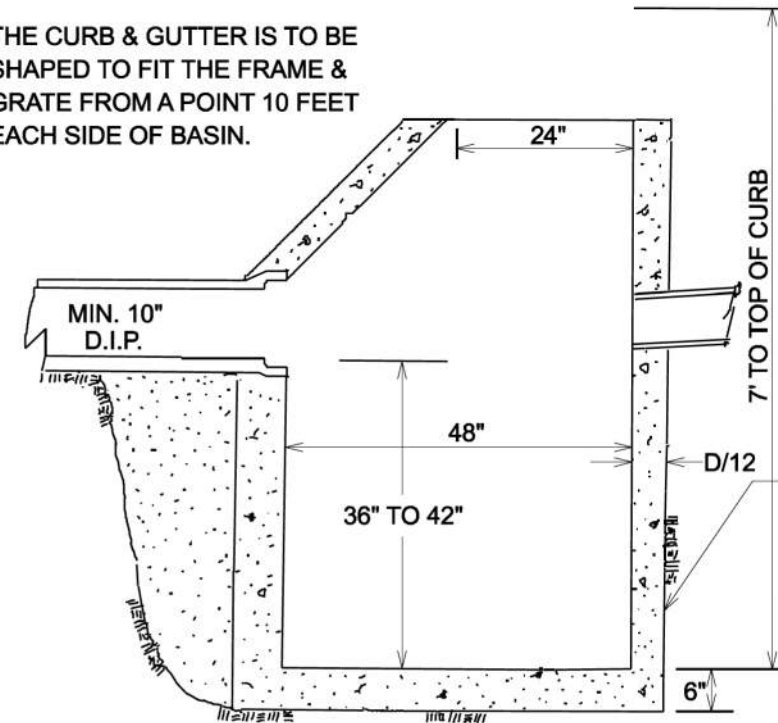
LAKE FOREST STANDARD 3.03

APPROVED BY : KMM

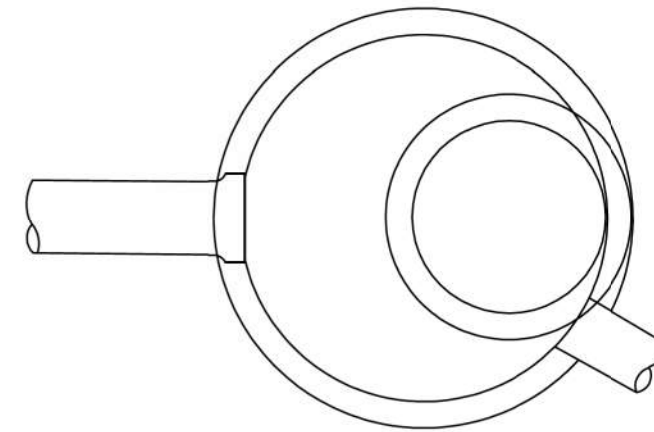
DATE : 2/7/2007

G:\Engineer\Standard Details\Curb Frame 3-03

THE CURB & GUTTER IS TO BE SHAPED TO FIT THE FRAME & GRATE FROM A POINT 10 FEET EACH SIDE OF BASIN.



ALL CATCH BASIN PARTS TO BE PRECAST CONCRETE CONFORMING TO ASTM C-478 WITH BITUMINOUS JOINTS, THE REINFORCED CONC. BASE SHALL BE INTEGRAL WITH THE WALLS



CATCH BASIN TYPE A

LAKE FOREST STANDARD 3.06

APPROVED BY : KMM

DATE : 1/1/2006

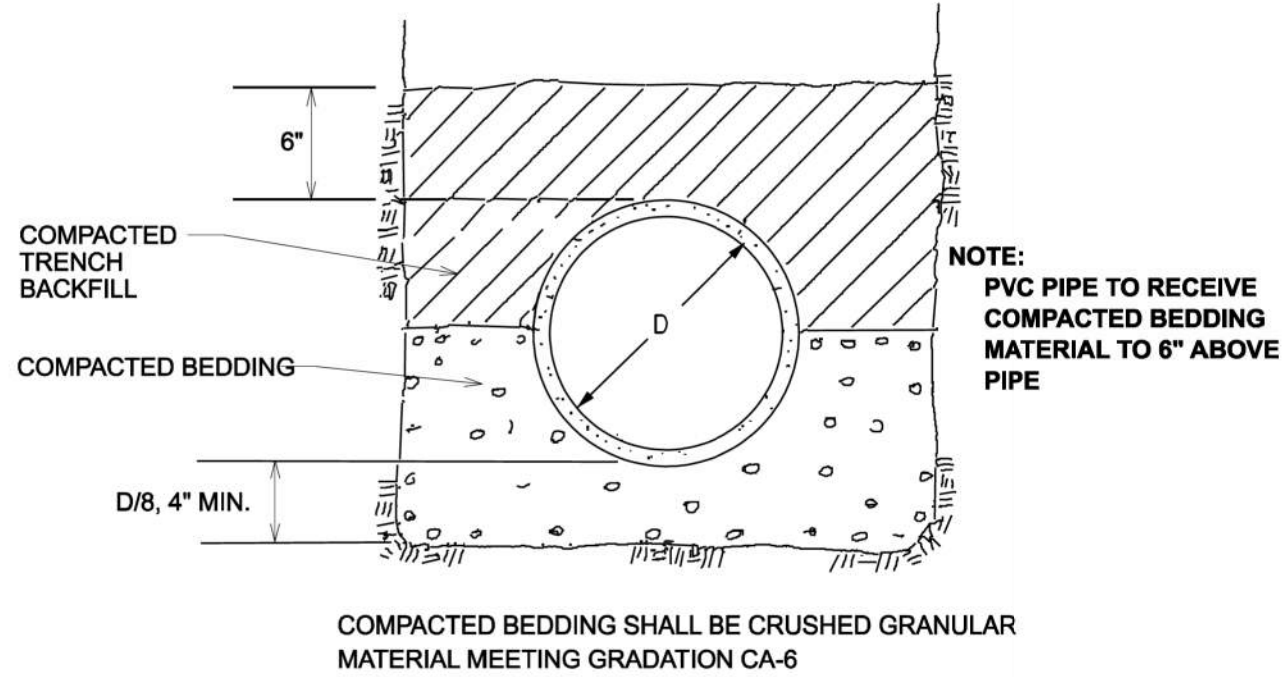
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MODEL: L.F. STANDARDS - 6
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		DRAWN	GG	REVISED	-
PLOT SCALE	-	CHECKED	AM	REVISED	-
PLOT DATE	5/24/2024	DATE	6/10/2024	REVISED	-

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	84
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				

NOTE: SAND TRENCH BACKFILL NOT ALLOWED



1. BEDDING AND GRANULAR TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD DENSITY IN ACCORDANCE WITH A.S.T.M. D698
2. EXCAVATED TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% STANDARD DENSITY IN ACCORDANCE WITH A.S.T.M. D698
3. GRANULAR TRENCH BACKFILL SHALL BE INSTALLED UNDER AND WITHIN THREE (3) FEET OF PROPOSED PAVEMENTS AS SHOWN ON TYPICAL CROSS SECTION. GRANULAR TRENCH BACKFILL SHALL CONFORM TO FA-6 OR CA-6 COMPACTED TO 95% STANDARD DENSITY IN ACCORDANCE WITH ASTM D698. BACKFILL UNDER EXISTING PAVEMENTS, WHERE AN OPEN CUT OF THE PAVEMENT HAS BEEN APPROVED, SHALL BE FLOWABLE FILL WHICH MEETS THE IDOT STANDARDS OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) MIXTURE 1. INSTALL 12" OF COMPACTED GRANULAR TRENCH BACKFILL OVER SEWER BEFORE PLACING THE FLOWABLE FILL

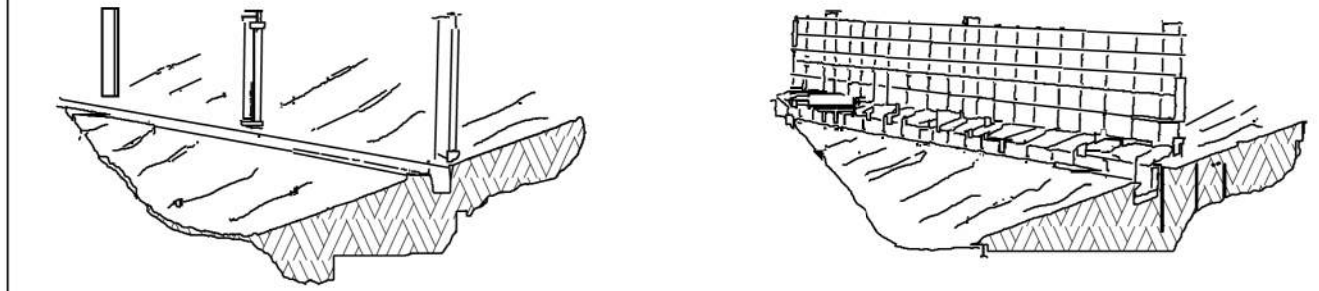
STORM SEWER BEDDING DETAIL

LAKE FOREST STANDARD 3.09

APPROVED BY : KMM

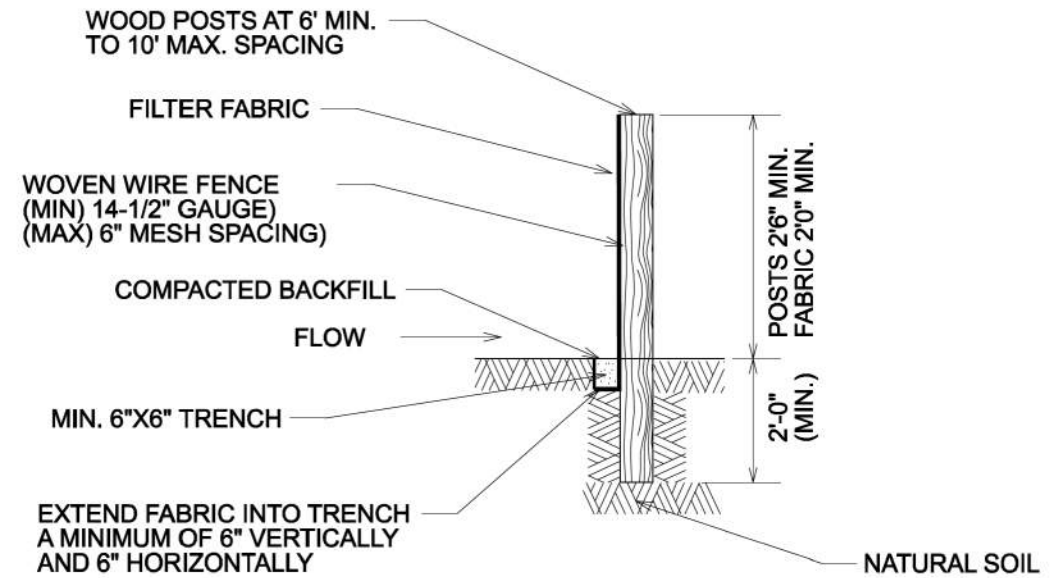
DATE : 1/1/2006

G:\Engineer\Standard Details\Bedding Storm Sewer 3-09



1. SET POSTS AND EXCAVATE A 6"X6" TRENCH UPSLOPE ALONG LINE OF POSTS

2. STAPLE WIRE FENCE TO POSTS, ATTACH FILTER FABRIC TO WIRE FENCE AND EXTEND BOTH INTO THE TRENCH



NOTES:

1. FILTER BARRIERS SHALL BE PLACED AT THOSE LOCATIONS SHOWN ON THE PLANS.
2. OVERLAP FILTER FABRIC BY 6" AND FOLD WHERE 2 SECTIONS ADJOIN.
3. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. SEDIMENT TRAPPED BY THE FENCE SHALL BE REMOVED AND PROMPTLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
5. BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL COMPLETION OF CONSTRUCTION AND THE UPSLOPE AREA HAS BEEN STABILIZED, AND BE REMOVED ONLY WHEN DIRECTED BY THE CITY.

SILT FENCE DETAIL

LAKE FOREST STANDARD 11.02

APPROVED BY : KMM

DATE : 1/1/2006

G:\Engineer\Standard Details\Silt Fence 11-02

MODEL: L.F. STANDARDS - 7
FILE NAME: p:\Documents\Projects\00030201\6.0_Cad\General\2020\1-SHT-HWL-GEN-STD-ARDS.dgn



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PLOT DATE	5/24/2024

DESIGNED	GG
DRAWN	GG
CHECKED	AM
DATE	6/10/2024

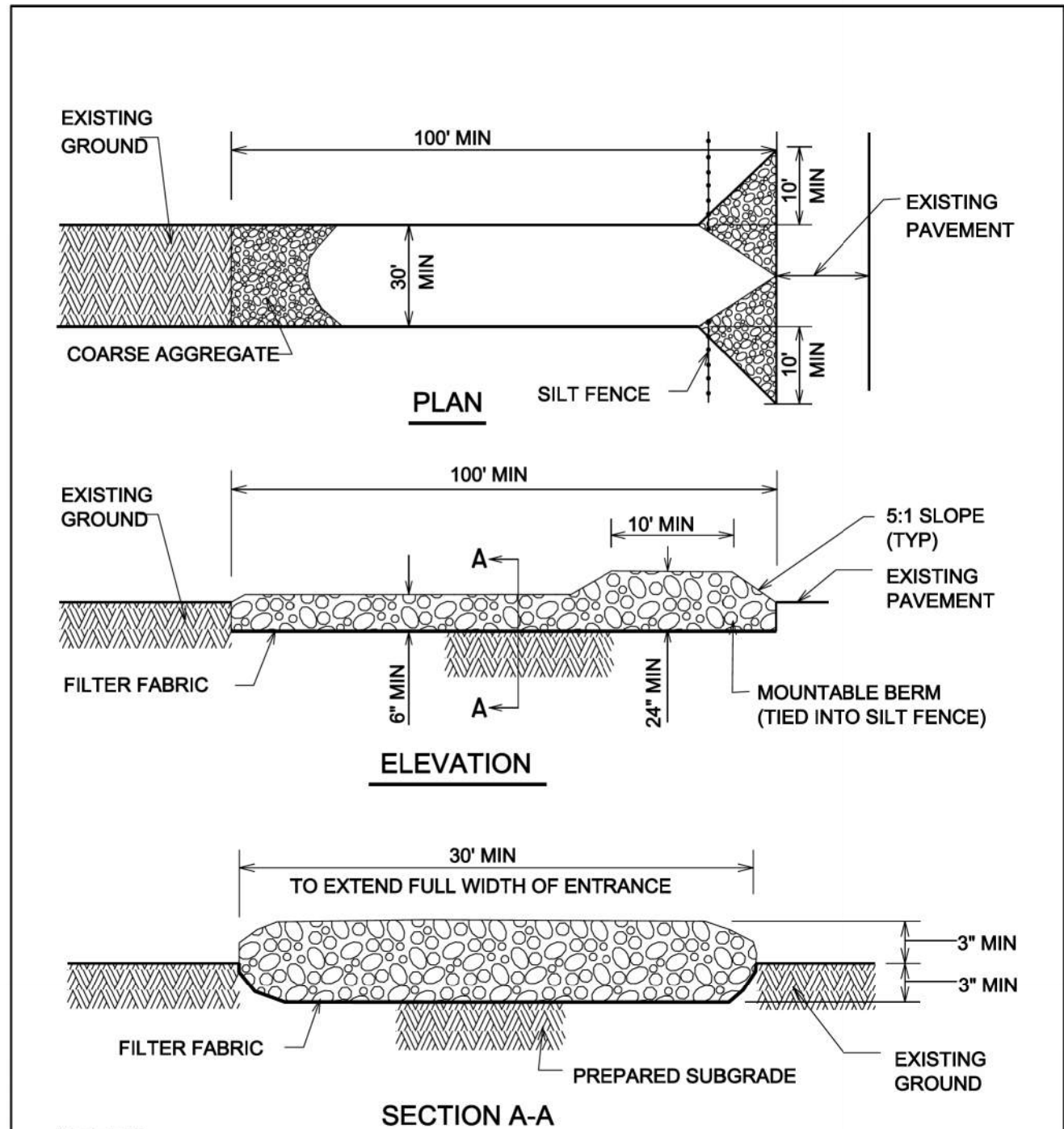
REVISED	
REVISED	
REVISED	
REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE FOREST STANDARDS
LAKE WOODBINE BRIDGE

SCALE: N/A SHEET 7 OF 8 SHEETS STA. N/A TO STA. N/A

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1370	12-00094-00-BR	LAKE	86	85
CONTRACT NO. 61K52				
ILLINOIS FED. AID PROJECT				



NOTES:

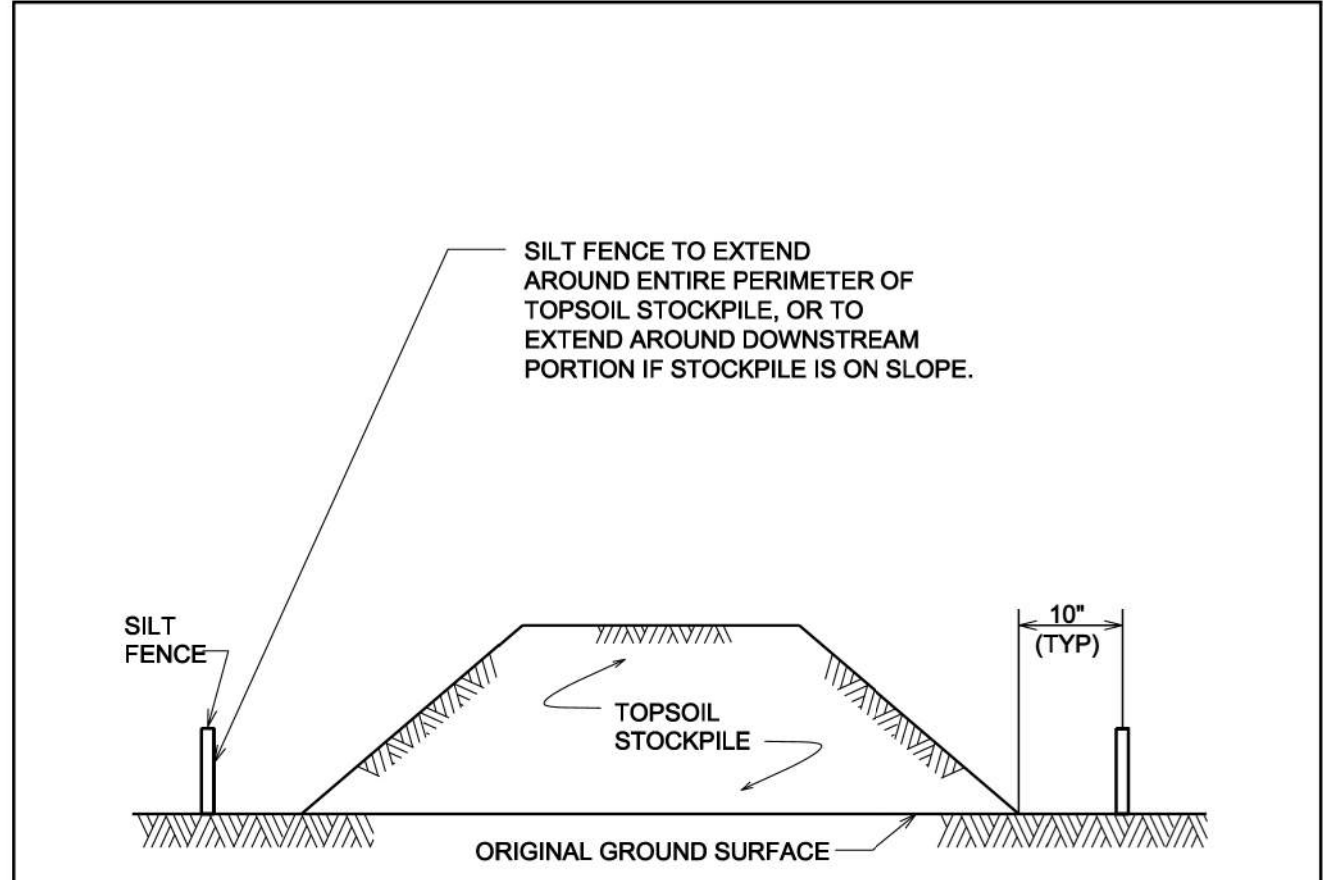
1. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO PLACING COARSE AGGREGATE
2. COARSE AGGREGATE (OR CRUSHED CONCRETE) SHALL MEET IDOT GRADATION FOR CA-1 CRUSHED AGGREGATE.
3. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED, PRIOR TO ONSET OF CONSTRUCTION OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT.
4. CONSTRUCTION ENTRANCE SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION AND ONLY WHEN DIRECTED BY THE CITY ENGINEER.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

LAKE FOREST STANDARD 11.03
APPROVED BY : KMM
DATE : 1/1/2006

G:\Engineer\ENGSTD\Standard Details\... \Construction Entrance 11-03



NOTES:

1. AN ON-SITE DRAINAGE SWALE SHALL BE LOCATED BETWEEN THE TOPSOIL STOCKPILE AND OFF-SITE PROPERTY.
2. REFERENCE IS MADE TO THE SILT FENCE DETAIL FOR MATERIALS AND INSTALLATION METHODS.
3. IF THE STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, IT SHALL BE STABILIZED WITH BURLAP MATTING OR SEEDING WITHIN 7 DAYS OF COMPLETION TO MINIMIZE EROSION.
4. INSPECTION OF SILT FENCES SHALL BE AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2". REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. SEDIMENT TRAPPED BY THE FENCES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.
6. SILT FENCES SHALL BE MAINTAINED IN PLACE UNTIL TOPSOIL STOCKPILE HAS BEEN ELIMINATED AND SHALL BE REMOVED ONLY WHEN DIRECTED BY THE CITY ENGINEER.

TEMPORARY TOPSOIL STOCKPILE

NOT TO SCALE

LAKE FOREST STANDARD 11.04
APPROVED BY : KMM
DATE : 1/1/2006

G:\Engineer\ENGSTD\Standard Details\... \Topsoil Stockpile 11-04

MODEL: L.F. STANDARDS - 8
 FILE NAME: P:\Documents\Projects\11-03-2024\11-03-SHT-HWL-GEN-STD-11-03.dwg
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