

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

ILLINOIS ROUTE 120 (IL-120)
 FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
 POSTED SPEED: 55 MPH
 ADT: 29800 (2021)

STATE OF ILLINOIS 11-17-2023 LETTING ITEM 025

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

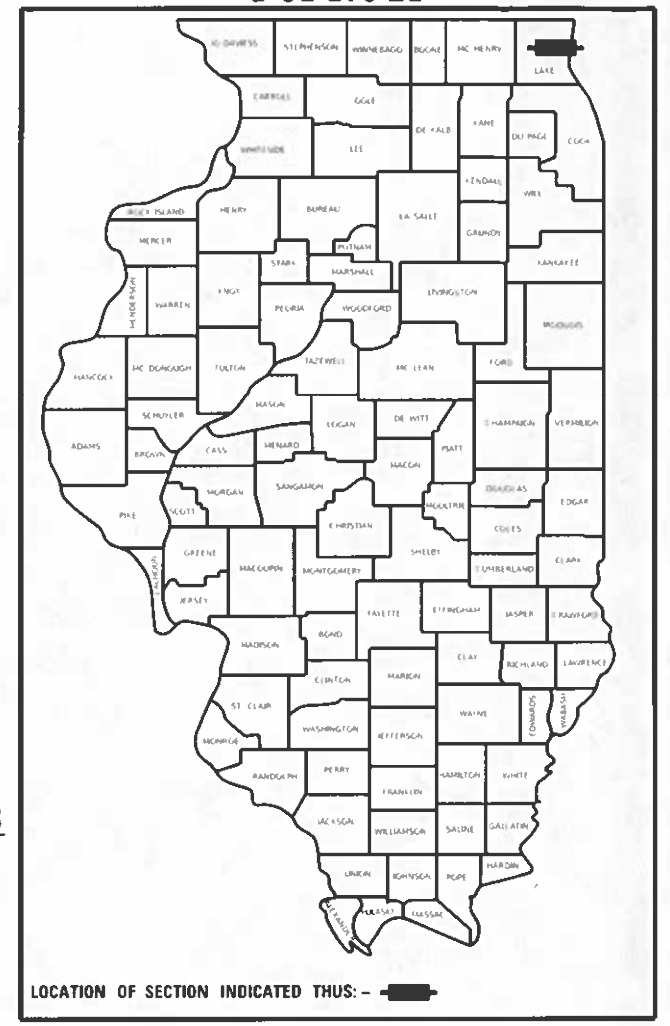
FAP ROUTE 0333
 IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER
 SECTION 2021-071-BDR
 PROJECT NHPP 9S8Q(362)
 BRIDGE DECK REPAIRS & REPLACEMENTS
 LAKE COUNTY
 C-91-206-21

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	142	1

ILLINOIS CONTRACT NO. 62P09

* 131 + 11 = 142 TOTAL SHEETS
 ** 142 + 17 = 159 TOTAL SHEETS

D-91-170-21



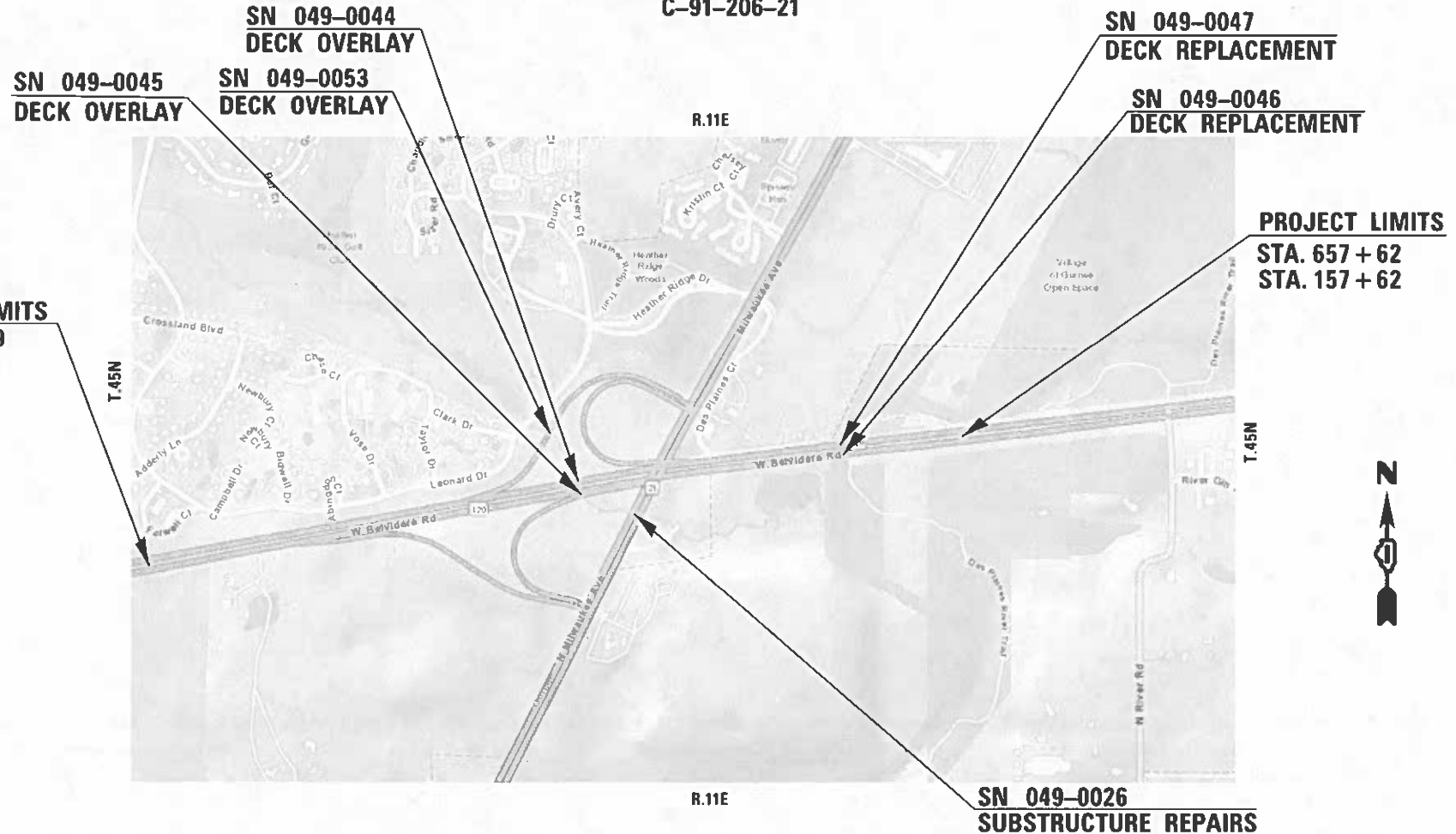
APPLIES TO SHEETS 1-12
[Signature]
 LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS
 EXPIRES 11/30/2023

APPLIES TO SHEETS 13-37, 121-131
[Signature]
 LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS
 EXPIRES 11/30/2023

APPLIES TO SHEETS 38-50
[Signature]
 LICENSED PROFESSIONAL ENGINEER, STATE OF ILLINOIS
 EXPIRES 11/30/2023

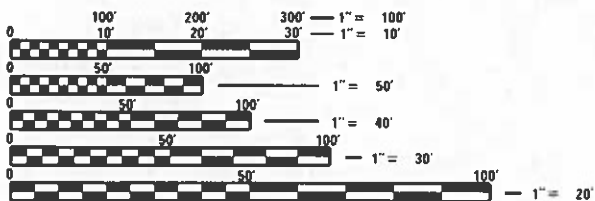
APPLIES TO SHEETS 51-75, 112-120
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 LICENSED STRUCTURAL ENGINEER, STATE OF IL
 EXPIRES 11/30/2024

APPLIES TO SHEETS 76-111
[Signature]
 LICENSED STRUCTURAL ENGINEER, STATE OF ILLINOIS
 EXPIRES 11/30/2024



MUNICIPALITIES:
 VILLAGE OF GURNEE
 WARREN TOWNSHIP

PROJECT LIMITS
 STA. 575 + 19
 STA. 75 + 15



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

PROJECT ENGINEER: PRAVEEN KAINI, PE (847)-705-4237
 PROJECT MANAGER: J. ALAIN MIDY, PE (847)-221-3056

	SN 049-0044	SN 049-0045	SN 049-0046	SN 049-0047	SN 049-0053
GROSS LENGTH =	78 FT. (0.015 MILES)	225 FT. (0.043 MILES)	356 FT. (0.067 MILES)	303 FT. (0.057 MILES)	70.7 FT. (0.014 MILES)
NET LENGTH =	62 FT. (0.012 MILES)	205 FT. (0.039 MILES)	181 FT. (0.034 MILES)	135 FT. (0.026 MILES)	41.9 FT. (0.008 MILES)

LAKE COUNTY

CONTRACT NO. 62P09

Bowman
 10 S. LaSalle Street, Suite 2110
 Chicago, Illinois 60603
 312-614-0360
 www.bowman.com

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED August 21, 2023
[Signature]
 REGIONAL ENGINEER

October 13, 2023
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 2023
[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

REVISED SHEET 11/2/2023

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IDOT HIGHWAY STANDARDS

- STD NO. TITLE
- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-10 PAVEMENT JOINTS
- 420401-13 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
- 442001-04 CLASS A PATCHES
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- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-04 NAME PLATE FOR BRIDGES
- 601001-05 PIPE UNDERDRAINS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630201-07 PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631031-18 TRAFFIC BARRIER TERMINAL, TYPE 6
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- 635001-01 DELINEATORS
- 642001-03 SHOULDER RUMBLE STRIPS, 16 IN.
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, LESS THAN 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
- ~~701421-08 LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH~~
- 701422-10 LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
- 701426-09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≥ 45 MPH
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- ~~701701-10 URBAN LANE CLOSURE, MULTILANE, INTERSECTION~~
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- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY



MODEL: D:\s\it...
 FILE NAME: P:\C\00058...
 IDOT\00058\01\002 (ENG) - PTB 195-016 Phase II Var Var\Electrical\WO 28 - 62P09 IL-120 at DRR\500 Drawings\502 CADD Sheets\0162P09-01-Index-standards.dgn

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	DRAWN - VV	CHECKED - AP	DATE - 08/28/2023
	PLOT SCALE = 2.0000' / in.		
	PLOT DATE = 10/30/2023		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	2
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

REVISED SHEET 11/2/2023

MODEL: Defult
 FILE NAME: PLO00058... IDOT\00058\01-002 (ENG) - PTB 195-016 Phase II Ver. VotEngineering\WO 28 - 62209 IL-120 at DRR1500 Drawings\502 CADD Sheets\0162209-INT-50005.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0020	0059	0059	0013	0059
			SN 049-0026	SN 049-0044	SN 049-0045	SN 049-0046 SN 049-0047	SN 049-0053	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	9			1	8	
* 63100117	TRAFFIC BARRIER TERMINAL, TYPE 13	EACH	3			3		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8			4	4	
63200310	GUARDRAIL REMOVAL	FOOT	1,968			422	1,546	
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	6,610				6,610	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	11,701				11,701	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	225				225	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2				2	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1				1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1				1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	20				20	⚠
67100100	MOBILIZATION	L SUM	1				1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	45				45	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	584				584	⚠
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,172				2,172	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	484				484	

⚠ REVISED SHEET 11/2/2023

* SPECIALTY ITEMS



USER NAME = vvesco	DESIGNED - KMM	REVISED -
DRAWN - VV	REVISIONS -	
PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 08/28/2023	DATE - 08/28/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER			
SCALE: NONE	SHEET 5	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 8
CONTRACT NO. 62P09			ILLINOIS FED. AID PROJECT	

MODEL: D:\cadd\DOT\040058\01-002 (ENG) - PTB 195-016 Phase II For V&E\Engineering\WO 28 - 62209 IL-120 at DRR\1500 Drawings\502 CADD Sheets\162P09-INT-50006.dgn
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				0020	0059	0059	0013	0059
			SN 049-0046	SN 049-0047	SN 049-0053			
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	41,045				41,045	△
70307125	TEMPORARY PAVEMENT MARKING - LINE 5" - TYPE IV TAPE	FOOT	9,868				9,868	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	5,288				5,288	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	4,713				4,713	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2				2	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2				2	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	23,074				23,074	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,281				1,281	
* 78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	140				140	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,117				1,117	
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	140				140	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	13				13	
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	23				23	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	277				277	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	13				13	

△ REVISED SHEET 11/2/2023 * SPECIALTY ITEMS

 10 S. LaSalle Street, Suite 210 Chicago, Illinois 60603 312-494-0360 www.bowman.com	USER NAME = vvesco	DESIGNED - KMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER			F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 9	
	PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISED -		SCALE: NONE	SHEET 6	OF 9 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				
	PLOT DATE = 08/28/2023	DATE - 08/28/2023	REVISED -										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
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				0020	0059	0059	0013	0059
			SN 049-0046	SN 049-0047	SN 049-0053			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1				1	
X7010410	SPEED DISPLAY TRAILER	CAL MO	20				20	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	163				163	△
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	163				163	
X8211009	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	13				13	
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	42.0				42.0	
X8250065	TEMPORARY LIGHTING CONTROLLER, 240 VOLT, POLE MOUNTED	EACH	1				1	
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	7150				7150	
Z0001905	STRUCTURAL STEEL REPAIR	POUND	600				600	
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12				12	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	366				366	
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	408			408		
Z0006018	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 INCHES	SQ YD	102					102
Z0006020	BRIDGE DECK LATEX CONCRETE OVERLAY, 3 1/2 INCHES	SQ YD	133		133			
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	643		133	408		102
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	412.0	140	105	43	105.0	19
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	2.0				2.0	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1				1	

△ REVISED SHEET 11/2/2023 * SPECIALTY ITEMS

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USER NAME = vvesco	DESIGNED - KMM	REVISED -
	DRAWN - VV	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - AP	REVISED -
PLOT DATE = 08/28/2023	DATE - 08/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER			
SCALE: NONE	SHEET 8	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 11
CONTRACT NO. 62P09			ILLINOIS FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
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				BRIDGE	BRIDGE	BRIDGE	BRIDGE	BRIDGE
				0020	0059	0059	0013	0059
			SN 049-0046	SN 049-0047	SN 049-0045	SN 049-0053		
Z0015500	DEBRIS REMOVAL	L SUM	1			1		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1				1	
Z0016702	DETOUR SIGNING	L SUM	1				1	
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	7.0				7.0	
Z0018905	DRILL AND GROUT BARS	EACH	62					62
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	2,398		119	394	1,796	89
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	375				375	
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	1,126				1,126	
Z0041895	POLYMER CONCRETE	CU FT	15.9		5	7.9		3
Z0062456	TEMPORARY PAVEMENT	SQ YD	3,626				3,626	
Z0065740	SLOTTED DRAIN 12" WITH VARIABLE SLOT	FOOT	1,126				1,126	
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	5				5	
K0029620	WEED CONTROL BROADLEAF WEED CONTROL	GALLON	1				1	
Ø Z0076600	TRAINEES	HOURS	500	500				
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				

 REVISED SHEET 11/2/2023 * SPECIALTY ITEMS



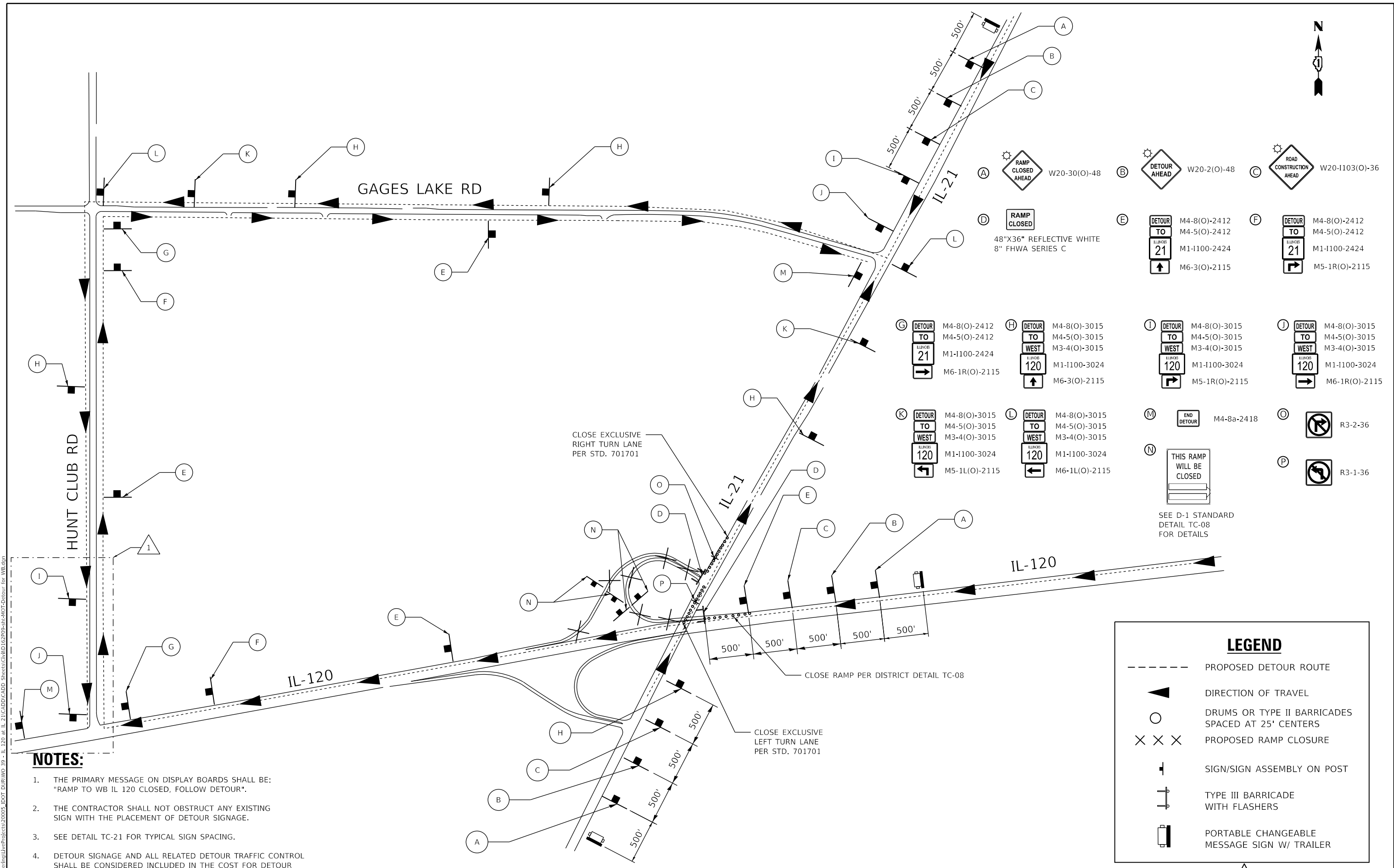
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DRAWN - VV	CHECKED - AP	REVISED -
PLOT SCALE = 2.0000' / in.	DATE - 08/28/2023	REVISED -
PLOT DATE = 08/28/2023		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
IL-120 (BELVIDERE ROAD) BRIDGE OVER DES PLAINES RIVER	
SCALE: NONE	SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 12
CONTRACT NO. 62P09			ILLINOIS FED. AID PROJECT	

Ø 0042



- (A) W20-30(O)-48
- (B) W20-2(O)-48
- (C) W20-1103(O)-36
- (D) 48"X36" REFLECTIVE WHITE 8" FHWA SERIES C
- (E) M4-8(O)-2412
M4-5(O)-2412
M1-1100-2424
M6-3(O)-2115
- (F) M4-8(O)-2412
M4-5(O)-2412
M1-1100-2424
M5-1R(O)-2115
- (G) M4-8(O)-2412
M4-5(O)-2412
M1-1100-2424
M6-1R(O)-2115
- (H) M4-8(O)-3015
M4-5(O)-3015
M3-4(O)-3015
M1-1100-3024
M6-3(O)-2115
- (I) M4-8(O)-3015
M4-5(O)-3015
M3-4(O)-3015
M1-1100-3024
M5-1R(O)-2115
- (J) M4-8(O)-3015
M4-5(O)-3015
M3-4(O)-3015
M1-1100-3024
M6-1R(O)-2115
- (K) M4-8(O)-3015
M4-5(O)-3015
M3-4(O)-3015
M1-1100-3024
M5-1L(O)-2115
- (L) M4-8(O)-3015
M4-5(O)-3015
M3-4(O)-3015
M1-1100-3024
M6-1L(O)-2115
- (M) M4-8a-2418
- (N) SEE D-1 STANDARD DETAIL TC-08 FOR DETAILS
- (O) R3-2-36
- (P) R3-1-36

NOTES:

1. THE PRIMARY MESSAGE ON DISPLAY BOARDS SHALL BE: "RAMP TO WB IL 120 CLOSED, FOLLOW DETOUR".
2. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
3. SEE DETAIL TC-21 FOR TYPICAL SIGN SPACING.
4. DETOUR SIGNAGE AND ALL RELATED DETOUR TRAFFIC CONTROL SHALL BE CONSIDERED INCLUDED IN THE COST FOR DETOUR SIGNING EXCEPT AS OTHERWISE NOTED.

LEGEND

- PROPOSED DETOUR ROUTE
- DIRECTION OF TRAVEL
- DRUMS OR TYPE II BARRICADES SPACED AT 25' CENTERS
- PROPOSED RAMP CLOSURE
- SIGN/SIGN ASSEMBLY ON POST
- TYPE III BARRICADE WITH FLASHERS
- PORTABLE CHANGEABLE MESSAGE SIGN W/ TRAILER

REVISD SHEET 11/2/2023

MODEL Path: I:\Projects\622005\DOT\DIR\WO 29 - IL 120 at IL 21\CADD\CADD Sheets\Sheet\1622005-IL120-2023-01.dwg



USER NAME = jschumann	DESIGNED - JJD	REVISED - 10/30/2023 JLS
PLOT SCALE = 1000,0000' / In.	DRAWN - MA	REVISED -
PLOT DATE = 10/30/2023	CHECKED - JJD	REVISED -
	DATE - 06/20/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN - WB IL 120 TO IL 21
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 20
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

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

GENERAL NOTES

- THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN ON THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
- TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 100 FEET CENTER TO CENTER IN TANGENTS, 50 FEET CENTER TO CENTER IN TAPERS, AND 15 FEET CENTER TO CENTER IN RADII IN THE CONSTRUCTION WORK ZONE.
- ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO 7 DAYS OF SERVICE OR REPLACEMENT AFTER THE INITIAL REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE BRIDGE CONSTRUCTION AND ALL SUBSEQUENT STAGE CHANGES ON IL ROUTE 120, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG IL ROUTE 120 AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CULVERT CONSTRUCTION / STAGE CHANGE. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR DAY FOR CHANGEABLE MESSAGE SIGN.
- WORK ZONE SPEED LIMIT SHALL BE 45 MPH ON IL ROUTE 120.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
- THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS, AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS OTHERWISE NOTED IN THE SPECIAL PROVISIONS.
- ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE 11' THRU-LANE FOR BOTH EASTBOUND AND WESTBOUND TRAFFIC UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.
- THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL AS SHOWN IN PLANS.
- IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, IF THEY WERE REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION. THE COST TO REPAIR ANY DAMAGES WILL BE BORNE BY THE CONTRACTOR AND NOT THE RESPONSIBILITY OF THE DEPARTMENT.
- ALL TEMPORARY PAVEMENT MARKINGS WILL BE PAVEMENT MARKING TAPE, TYPE IV, UNLESS OTHERWISE NOTED.
- VEHICULAR ACCESS TO LOCAL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL RECORD EXISTING GRADES AND ELEVATIONS OF THE DRAINAGE DITCH WHERE TEMPORARY PAVEMENT WILL BE PLACED. ONCE ALL CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL RESTORE DITCHES TO THE EXISTING GRADE AND ELEVATIONS. THIS WORK SHALL BE PAID FOR UNDER THE PAY ITEM, "TOPSOIL EXCAVATION AND REPLACEMENT".
- PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS AND STATE HIGHWAY STANDARD 601001. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
- CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING AND/ OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.

- DROP-OFFS ADJACENT TO THE TRAVEL LANE SHALL BE KEPT TO A MINIMUM. PROTECTION OF THE DROP-OFFS SHALL BE ACCORDING TO THE IDOT BUREAU OF SAFETY PROGRAMS AND ENGINEERING, SAFETY ENGINEERING POLICY MEMORANDUM 4-21. DROP-OFFS GREATER THAN OR EQUAL TO 12" WILL NOT BE ALLOWED AT LOCATIONS WHERE THE DROP-OFF IS LOCATED WITHIN 8 FT OF THE EDGE OF THE TRAVEL LANE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DROP-OFF AREAS MEET THE OFFSET, HEIGHT, AND DURATION REQUIREMENTS TO USE BARRICADES AT THE END OF EACH WORKDAY. THIS MAY REQUIRE THE CONTRACTOR TO REPLACE OR PLACE SUFFICIENT MATERIAL IN THE EXCAVATION TO REDUCE THE DROP-OFF TO BE COMPLIANT WITH THE REQUIREMENTS FOR USE OF BARRICADES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO COMPLY WITH THIS REQUIREMENT.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW OR LIKE NEW CONDITION AS DESCRIBED IN THE TRAFFIC CONTROL FIELD MANUAL.

SUGGESTED SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC

THE FOLLOWING SEQUENCE OF CONSTRUCTION AND MAINTENANCE OF TRAFFIC IS SUGGESTED. VARIATIONS MAY BE MADE WITH THE APPROVAL OF THE ENGINEER. FOR EACH STAGE OF CONSTRUCTION, PROVIDE TRAFFIC CONTROL AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS. COORDINATE INSTALLATION OF TRAFFIC CONTROL DEVICES WITH THE EXISTING TRAFFIC PATTERNS AT THE ENDS OF THE PROJECT ALONG IL ROUTE 120 AND IMPACTED CROSS STREETS. THE IMPROVEMENTS WILL BE CONSTRUCTED USING LANE CLOSURES AND CROSSOVERS PER THE PROJECT MAINTENANCE OF TRAFFIC PLANS DISTRICT ONE STANDARDS TC-08, TC-09, TC-10, TC-11, TC-13, TC-14, TC-16, TC-21, AND TC-22, AND HIGHWAY STANDARDS 701101, 701411, 701421, 701422, 701426, 701901, AND 704001.

PRESTAGE

- UTILIZE STATE HIGHWAY STANDARD 701422 TO INSTALL TEMPORARY PAVEMENT AND TEMPORARY DRAINAGE ON IL 120.

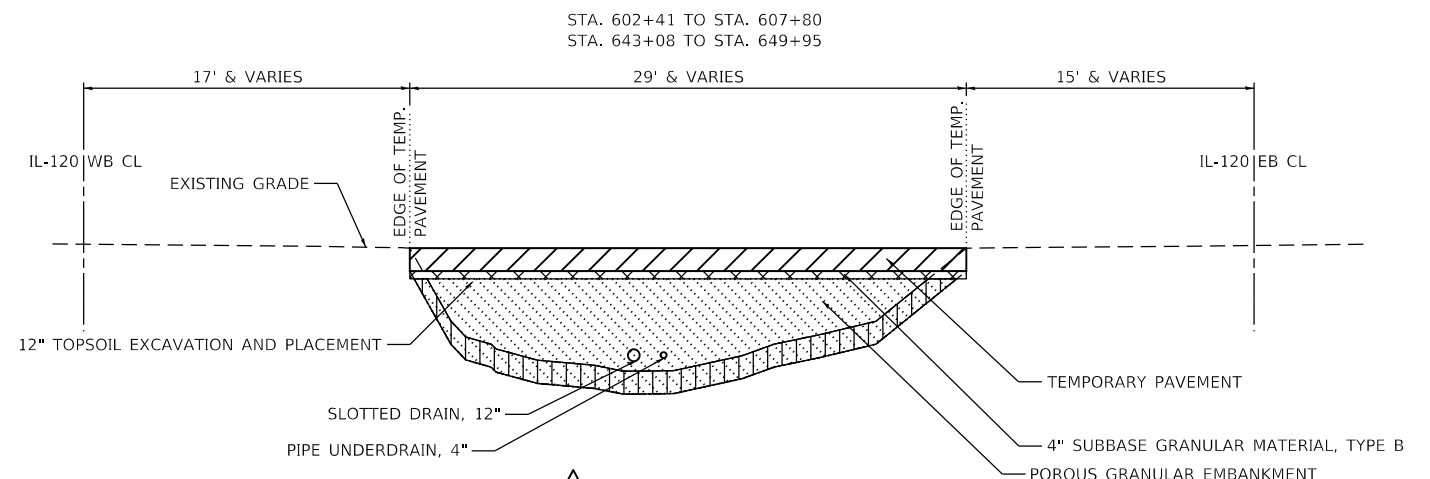
STAGE 1

- INSTALL ADVANCE WARNING SIGNS AND ARROW BOARDS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- ESTABLISH DETOUR FOR IL 120 EASTBOUND ON RAMP FROM IL 21 AS SHOWN IN THE PLANS.
- UTILIZE STATE HIGHWAY STANDARDS 701101 AND 701426 TO REMOVE CONFLICTING PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS, FILLING EXISTING SHOULDER RUMBLE STRIPS, INSTALL TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE TRAFFIC CONTROL PLAN.
- INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS FOR EASTBOUND CROSSOVER TO THE WESTBOUND ROADWAY.
- COMPLETE THE EASTBOUND REPAIRS AND CONSTRUCTION ON SN 049-0045 AND SN 049-0046. SN 049-0045 WILL BE SCARIFIED AND OVERLAID. THE REPAIRS ON SN 049-0046 INCLUDE REPLACING THE BRIDGE DECKS AND PARAPETS, REPAIR AND REPLACEMENT OF BACKWALLS ABOVE THE ABUTMENTS, AND REPLACEMENT OF EXPANSION JOINTS, EXPANSION BEARINGS, AND APPROACH SLABS. ADDITIONAL REPAIRS INCLUDE MILLING AND OVERLAY OF ROADWAY, GUARDRAIL REPLACEMENT AND REGRADING.

STAGE 2

- INSTALL ADVANCE WARNING SIGNS AND ARROW BOARDS AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- ESTABLISH DETOUR FOR IL 120 WESTBOUND ON AND OFF RAMP TO AND FROM IL 21 AS SHOWN IN THE PLANS.
- UTILIZE STATE HIGHWAY STANDARD 701101 AND 701426 TO REMOVE CONFLICTING PERMANENT PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS, FILLING EXISTING SHOULDER RUMBLE STRIPS, INSTALL TEMPORARY PAVEMENT MARKINGS AS DETAILED IN THE TRAFFIC CONTROL PLAN.
- INSTALL TRAFFIC CONTROL DEVICES AS SHOWN IN THE MOT PLANS FOR WESTBOUND CROSSOVER TO THE EASTBOUND ROADWAY.
- COMPLETE THE WESTBOUND REPAIRS AND CONSTRUCTION ON SN 049-0044, SN 049-0047, AND SN 049-0053. SN 049-0044 AND SN 049-0053 WILL BE SCARIFIED AND OVERLAID. THE REPAIRS ON SN 049-0047 INCLUDE REPLACING THE BRIDGE DECKS AND PARAPETS, REPAIR AND REPLACEMENT OF BACKWALLS ABOVE THE ABUTMENTS, AND REPLACEMENT OF EXPANSION JOINTS, EXPANSION BEARINGS, AND APPROACH SLABS. ADDITIONAL REPAIRS INCLUDE MILLING AND OVERLAY OF ROADWAY, GUARDRAIL REPLACEMENT AND REGRADING.
- INSTALL 16" SHOULDER RUMBLE STRIPS ALONG THE SHOULDER OF THE ROADWAY, AS SHOWN ON PLANS.
- REMOVE TEMPORARY PAVEMENT AND EMBANKMENT.
- REMOVE TEMPORARY TRAFFIC CONTROL DEVICES AND EROSION CONTROL DEVICES.
- INSTALL PERMANENT PAVEMENT MARKINGS AND LANDSCAPING (SEE LANDSCAPING) USING HIGHWAY STANDARD 701101 AND 701426.

TEMPORARY PAVEMENT TYPICAL SECTION



REVISD SHEET 11/2/2023

EARTHWORK SCHEDULE

	START STATION	END STATION	FILL VOLUME [EMBANKMENT] (CY)	15% SHRINKAGE VOLUME (CY)	CUT VOLUME [EMBANKMENT, 4" SUBBASE] (CY)
EAST CROSS-OVER	643+08	648+95	532.66	612.56	820.00
WEST CROSS-OVER	602+41	607+80	355.11	408.37	605.00
TOTAL			887.76	1021.00	1425.00

INTERSECTION FOR TEMPORARY TRAFFIC SIGNAL TIMING

TEMPORARY TRAFFIC SIGNAL TIMING WILL BE UTILIZED TO ADJUST EXISTING TRAFFIC SIGNAL TIMING THROUGHOUT THE DETOUR TO ACCOMMODATE ADDITIONAL TRAFFIC VOLUME. THE FOLLOWING INTERSECTION WILL INCORPORATE TEMPORARY TRAFFIC SIGNAL TIMING:

- IL RTE 120 & HUNT CLUB RD.
- GAGE LAKE RD. & HUNT CLUB RD.
- GAGE LAKE RD. & IL RTE 21
- IL RTE 120 & IL RTE 21 (WEST)
- IL RTE 120 & IL RTE 21 (EAST)

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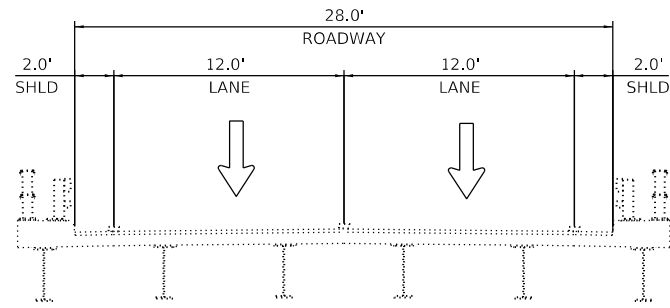
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PLOT DATE = 10/30/2023	CHECKED - JJD	REVISED -
	DATE - 06/20/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN - GENERAL NOTES
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**

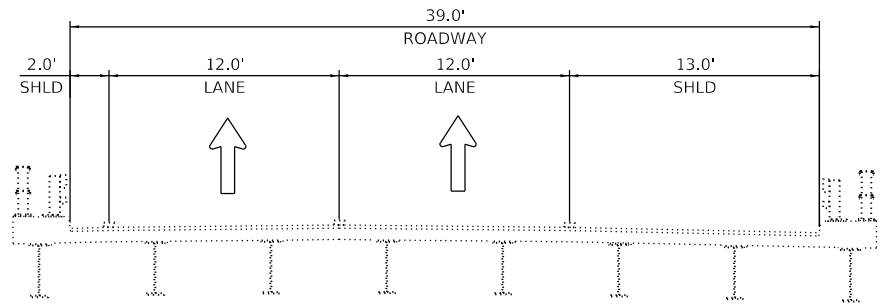
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	22
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

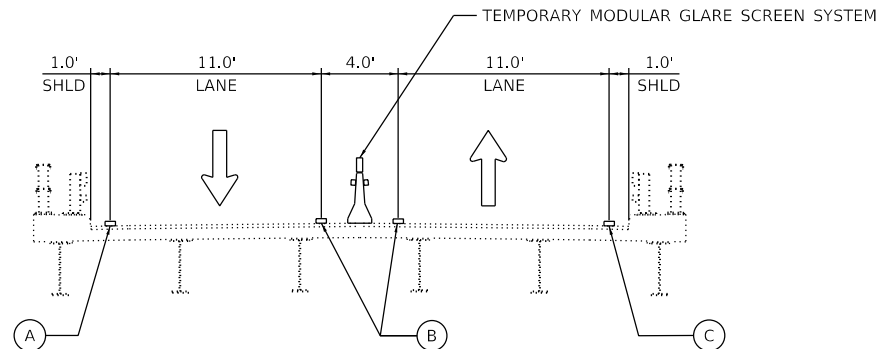


WESTBOUND
(S.N. 049-0047)

**EXISTING TYPICAL SECTION
ILLINOIS ROUTE 120**

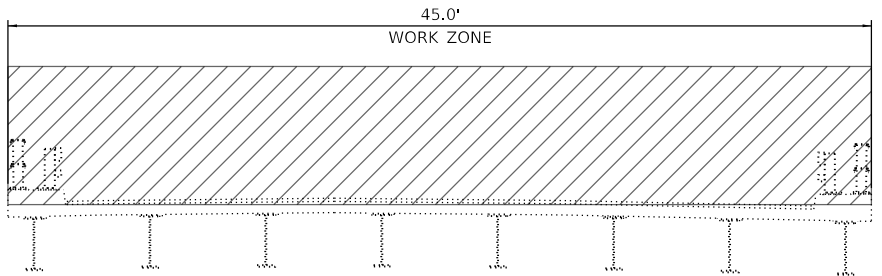


EASTBOUND
(S.N. 049-0046)

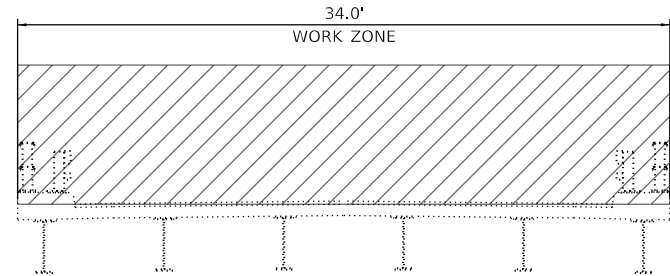


WESTBOUND
(S.N. 049-0047)

**STAGE 1 TYPICAL SECTION
ILLINOIS ROUTE 120**

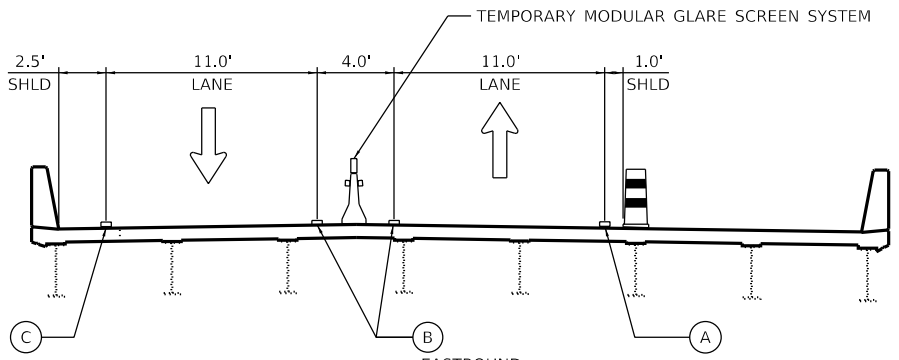


EASTBOUND
(S.N. 049-0046)

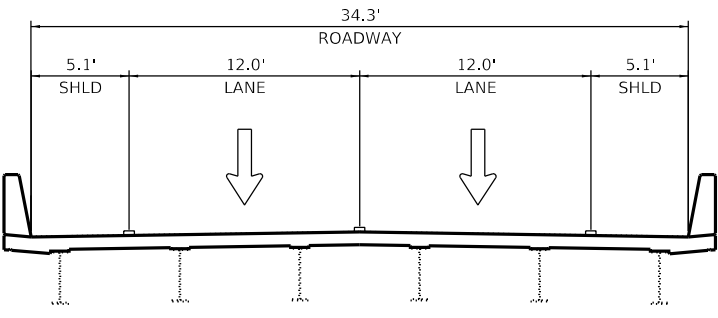


WESTBOUND
(S.N. 049-0047)

**STAGE 2 TYPICAL SECTION
ILLINOIS ROUTE 120**

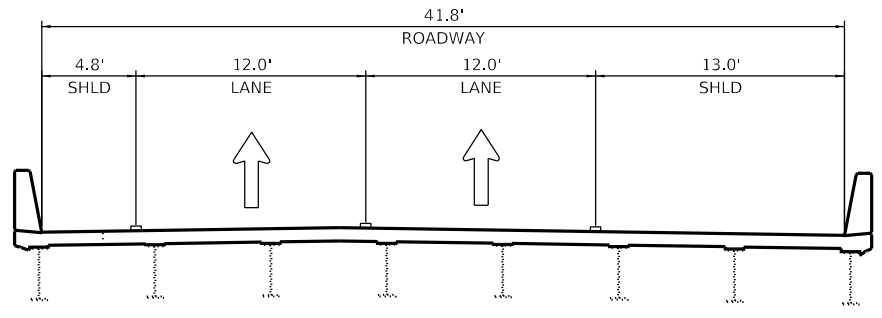


EASTBOUND
(S.N. 049-0046)



WESTBOUND
(S.N. 049-0047)

**PROPOSED TYPICAL SECTION
ILLINOIS ROUTE 120**



EASTBOUND
(S.N. 049-0046)

LEGEND

- TEMPORARY PAVEMENT MARKINGS
- WORK AREA
- TEMPORARY CONCRETE BARRIER WITH MONO-DIRECTIONAL AMBER TYPE C REFLECTORS PER STDS. 704001 AND 782006
- DRUMS
- DIRECTION OF TRAFFIC
- (A) 4 INCH, WHITE SOLID
- (B) 4 INCH, YELLOW SOLID
- (C) 5 INCH, WHITE SOLID

REVIS¹ SHEET 11/2/2023

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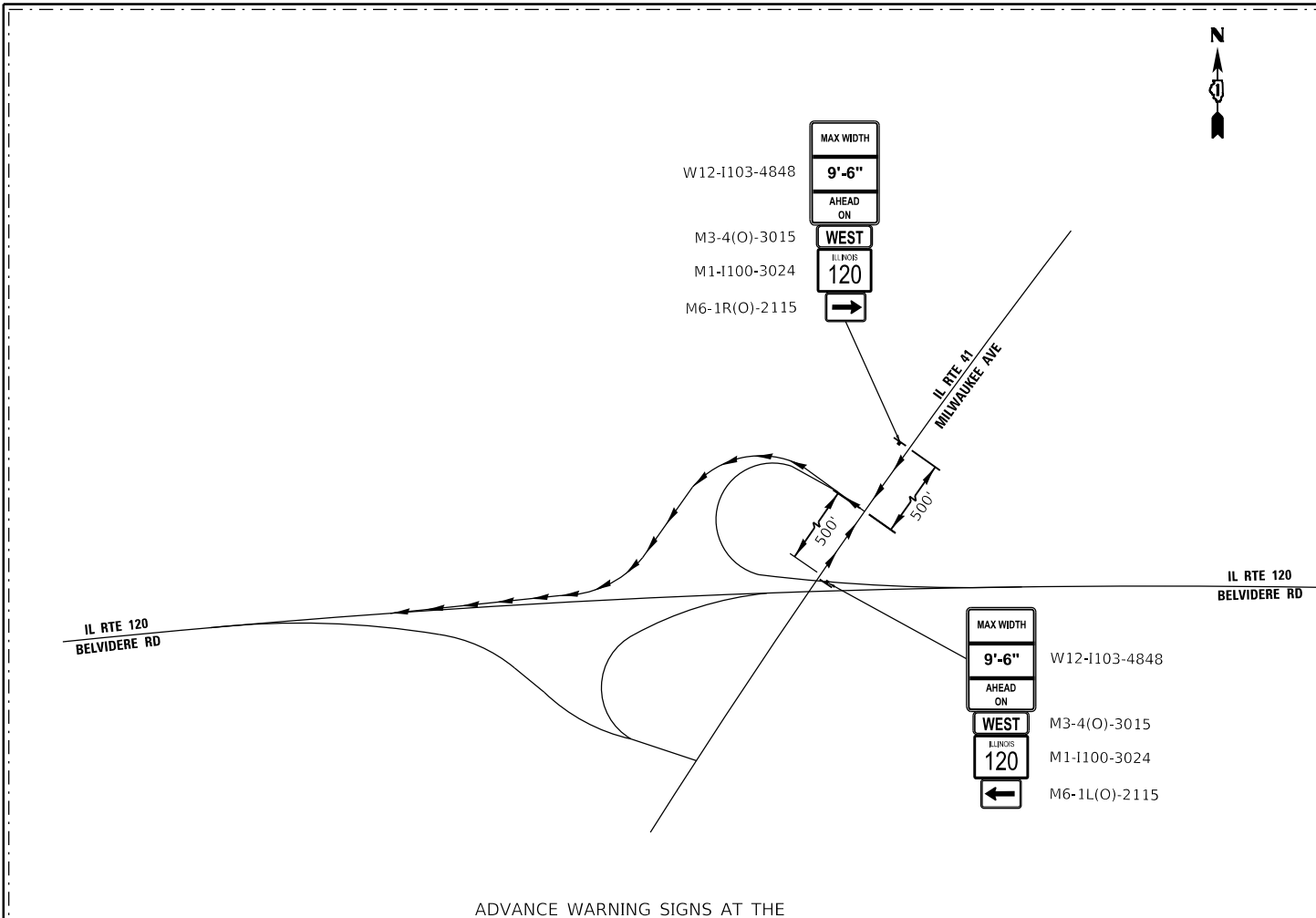


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	DATE - 06/20/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

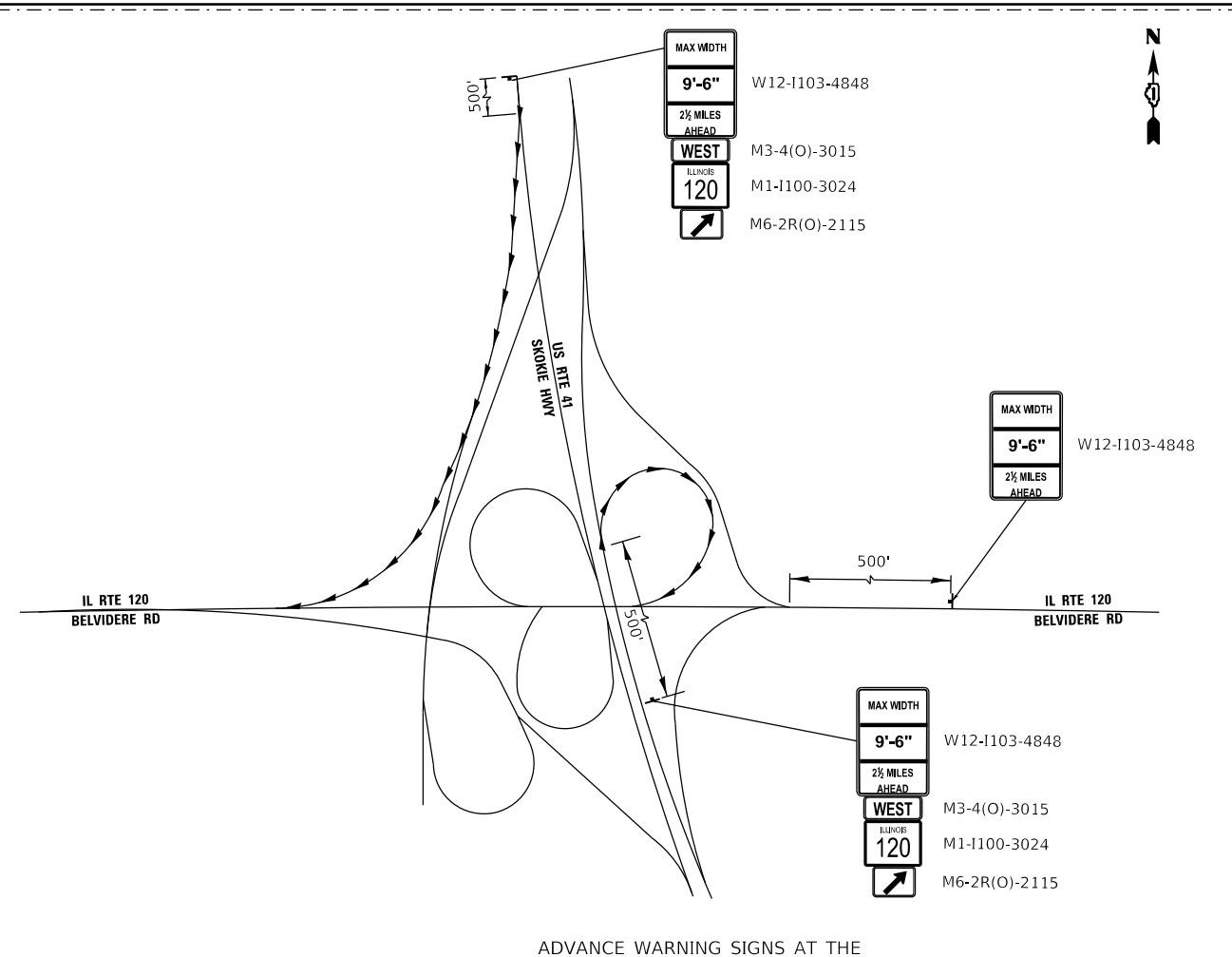
MAINTENANCE OF TRAFFIC PLAN - TYPICAL SECTIONS	
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER	
SCALE: NONE	SHEET 1 OF 1 SHEETS
STA. TO STA.	

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 23
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

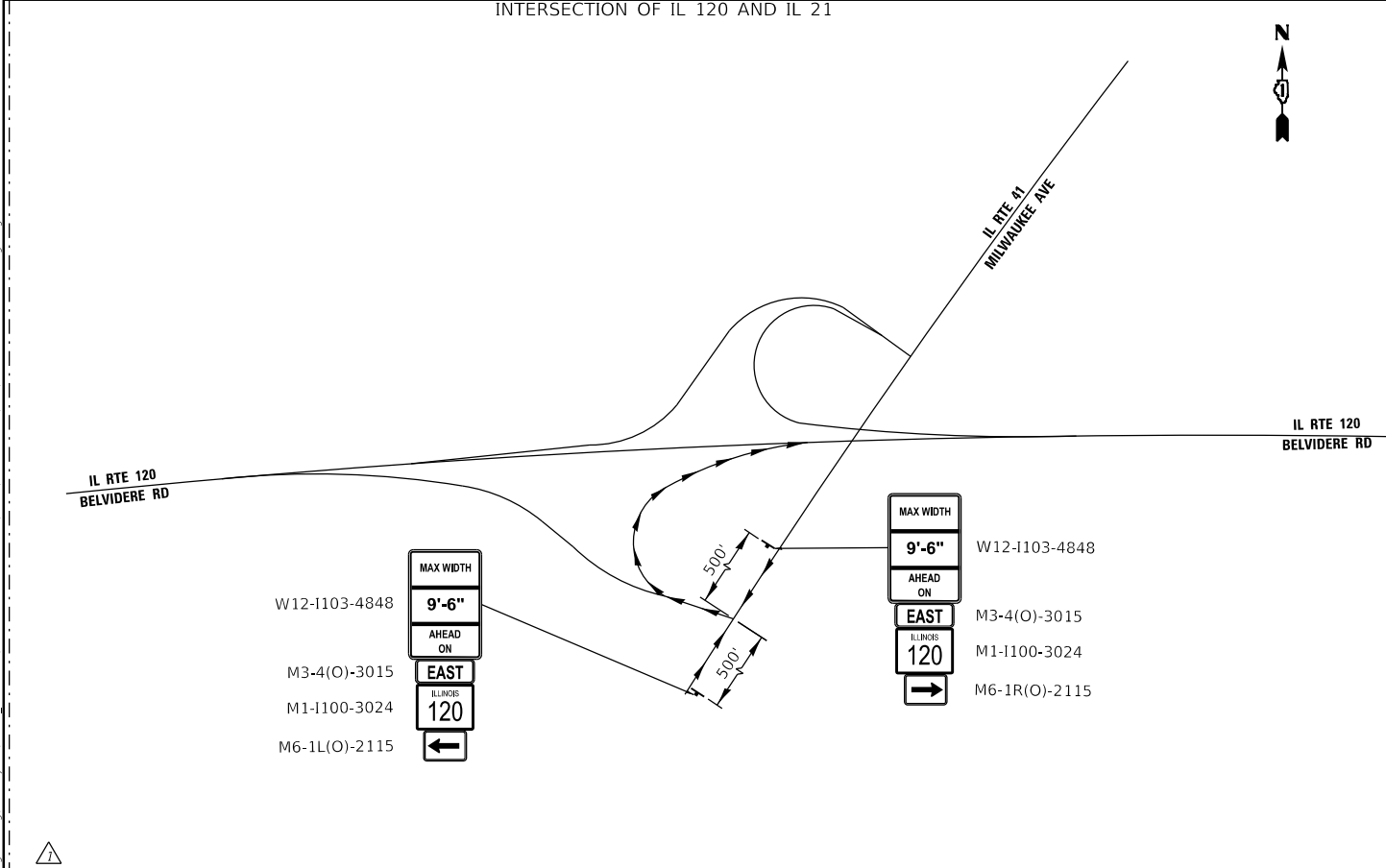


ADVANCE WARNING SIGNS AT THE INTERSECTION OF IL 120 AND IL 21

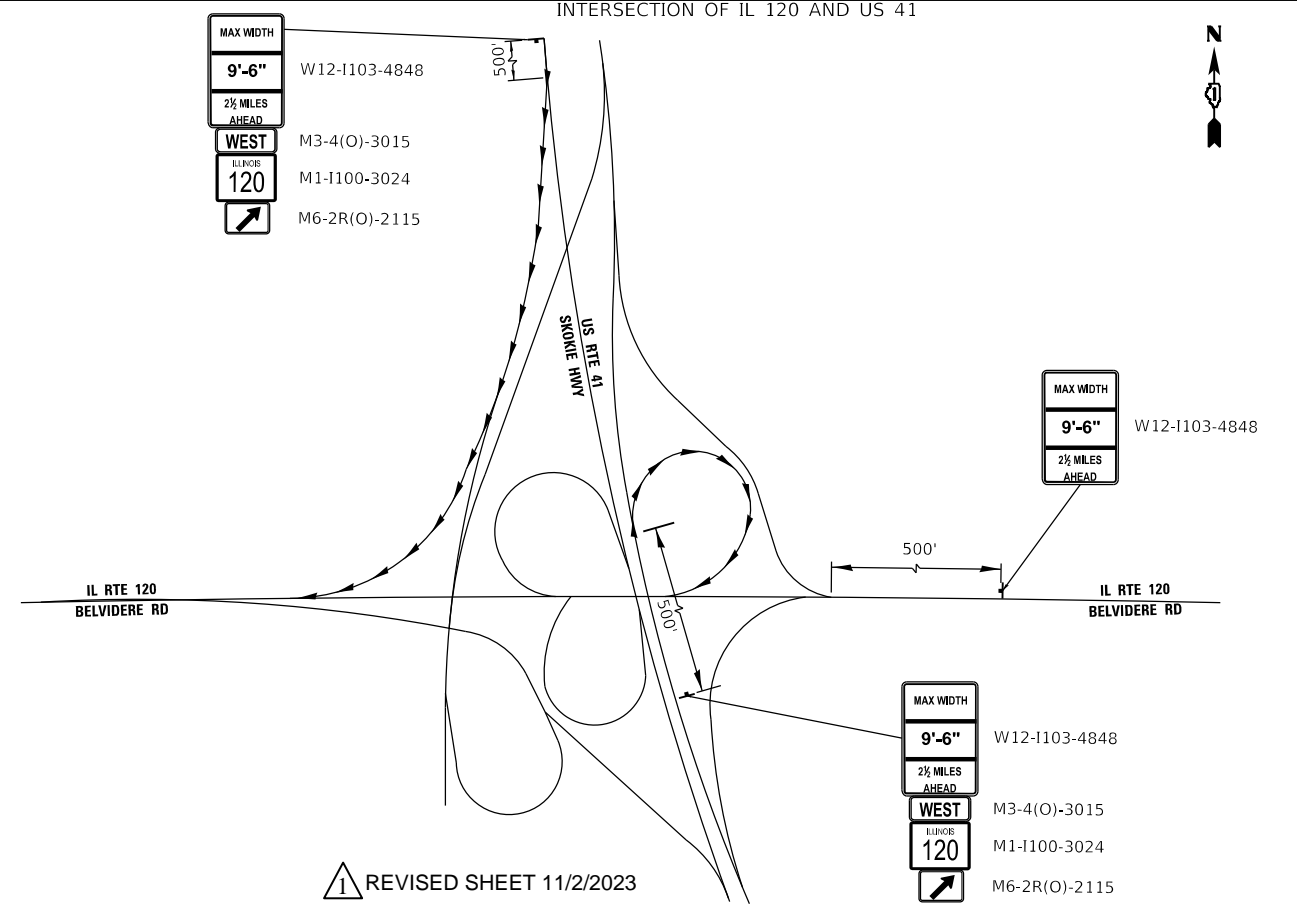
STAGE I
NTS



ADVANCE WARNING SIGNS AT THE INTERSECTION OF IL 120 AND US 41



STAGE II
NTS



REVISSED SHEET 11/2/2023

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

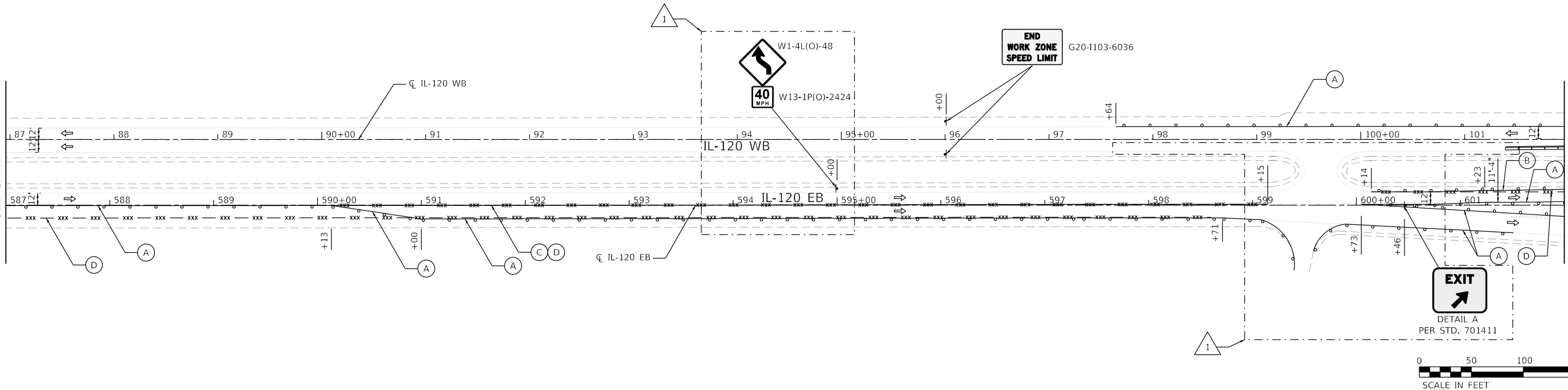
**MAINTENANCE OF TRAFFIC PLAN - ADVANCE WARNING SIGNAGE
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**

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

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 23B
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA 587+00
SEE SHEET 24

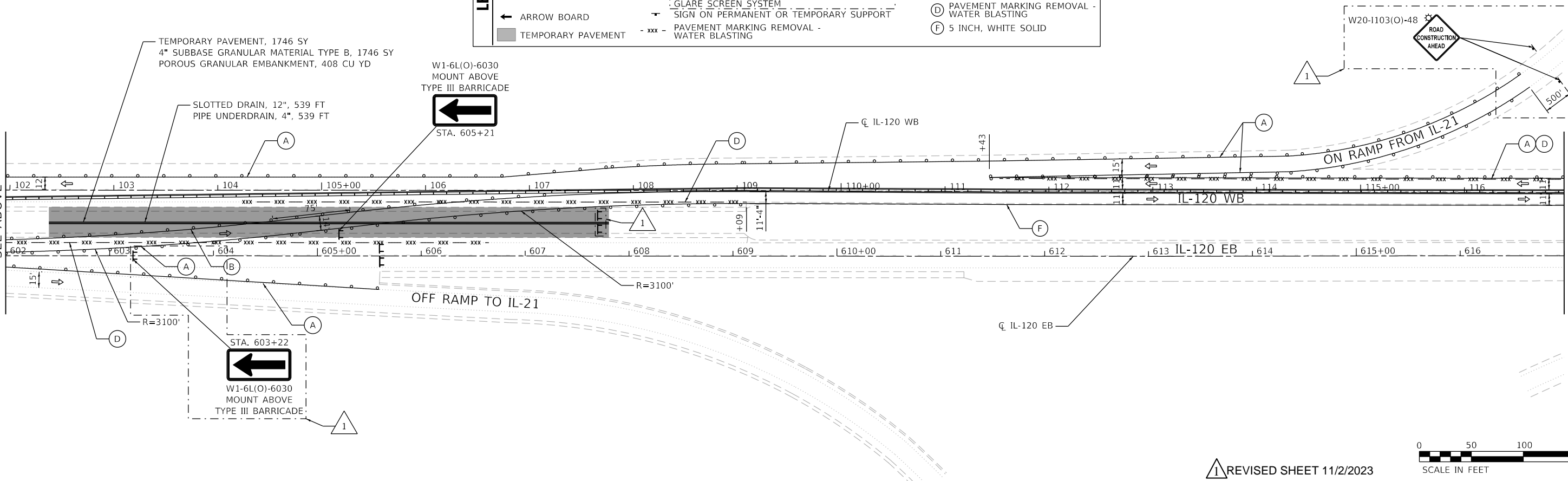
MATCHLINE STA 602+00
SEE BELOW



LEGEND	
	WORK AREA
	FLOW OF TRAFFIC
	TYPE III BARRICADE
	ARROW BOARD
	TEMPORARY PAVEMENT
	DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
	DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
	TEMPORARY CONCRETE BARRIER W/ MONO-DIRECTIONAL AMBER TYPE C BARRIER WALL REFLECTORS AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
	SIGN ON PERMANENT OR TEMPORARY SUPPORT
	PAVEMENT MARKING REMOVAL - WATER BLASTING
	TEMPORARY PAVEMENT MARKING- TYPE IV TAPE:
	(A) 4 INCH, WHITE SOLID
	(B) 4 INCH, YELLOW SOLID
	(C) 4 INCH, 2'-6" WHITE SKIP-DASH
	(D) PAVEMENT MARKING REMOVAL - WATER BLASTING
	(F) 5 INCH, WHITE SOLID

MATCHLINE STA 602+00
SEE ABOVE

MATCHLINE STA 617+00
SEE SHEET 26



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

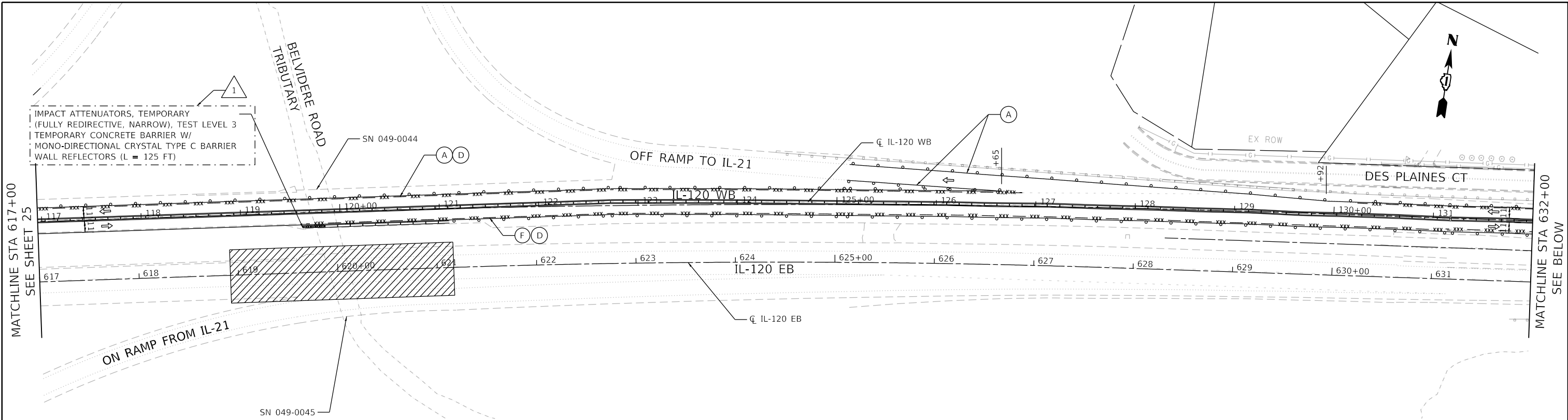
**MAINTENANCE OF TRAFFIC PLAN - STAGE I
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**

SCALE: 1"=50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 25
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

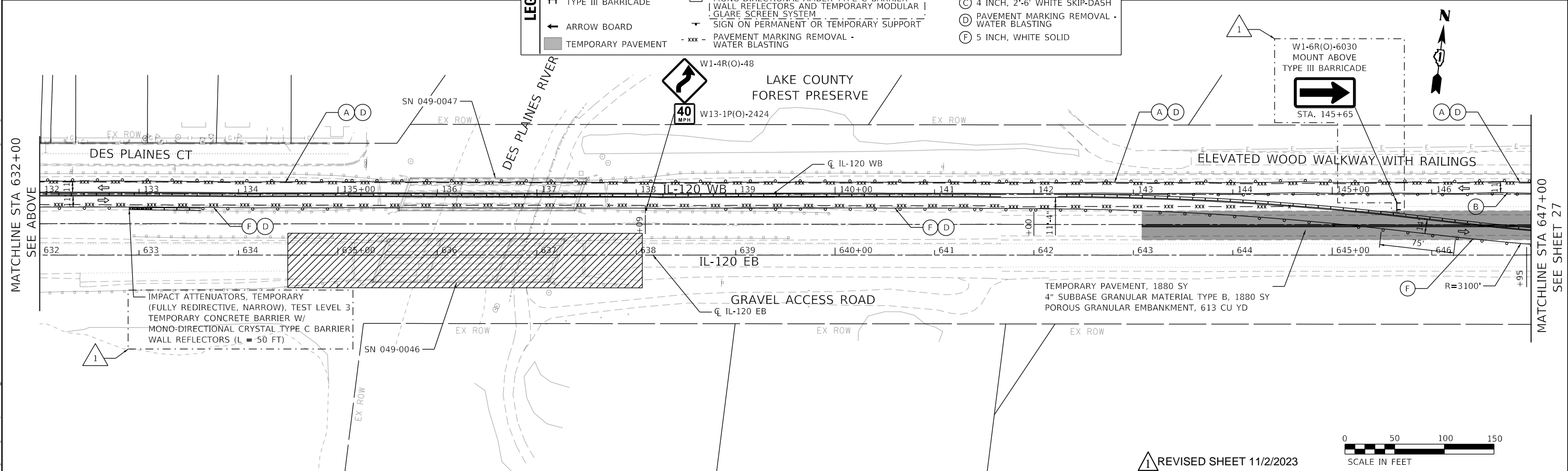
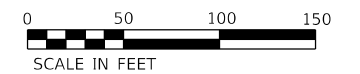
REVISED SHEET 11/2/2023





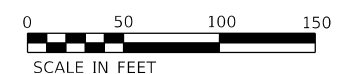
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 TEMPORARY CONCRETE BARRIER W/
 MONO-DIRECTIONAL CRYSTAL TYPE C BARRIER
 WALL REFLECTORS (L = 125 FT)

LEGEND	
	WORK AREA
	FLOW OF TRAFFIC
	TYPE III BARRICADE
	ARROW BOARD
	TEMPORARY PAVEMENT
	DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
	DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
	TEMPORARY CONCRETE BARRIER W/ MONO-DIRECTIONAL AMBER TYPE C BARRIER WALL REFLECTORS AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
	SIGN ON PERMANENT OR TEMPORARY SUPPORT
	PAVEMENT MARKING REMOVAL - WATER BLASTING
	TEMPORARY PAVEMENT MARKING - TYPE IV TAPE: A 4 INCH, WHITE SOLID
	B 4 INCH, YELLOW SOLID
	C 4 INCH, 2'-6" WHITE SKIP-DASH
	D PAVEMENT MARKING REMOVAL - WATER BLASTING
	E 5 INCH, WHITE SOLID



IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
 TEMPORARY CONCRETE BARRIER W/
 MONO-DIRECTIONAL CRYSTAL TYPE C BARRIER
 WALL REFLECTORS (L = 50 FT)

TEMPORARY PAVEMENT, 1880 SY
 4" SUBBASE GRANULAR MATERIAL TYPE B, 1880 SY
 POROUS GRANULAR EMBANKMENT, 613 CU YD



REVISOR SHEET 11/2/2023

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 MODEL: D:\m\l...
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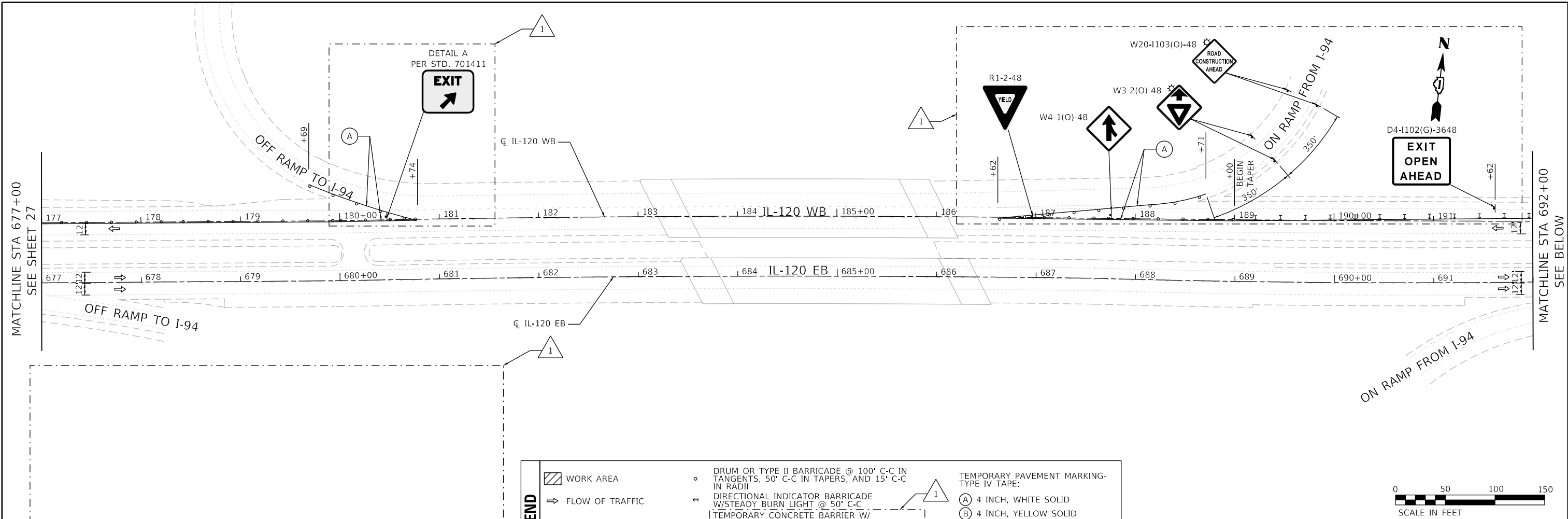
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

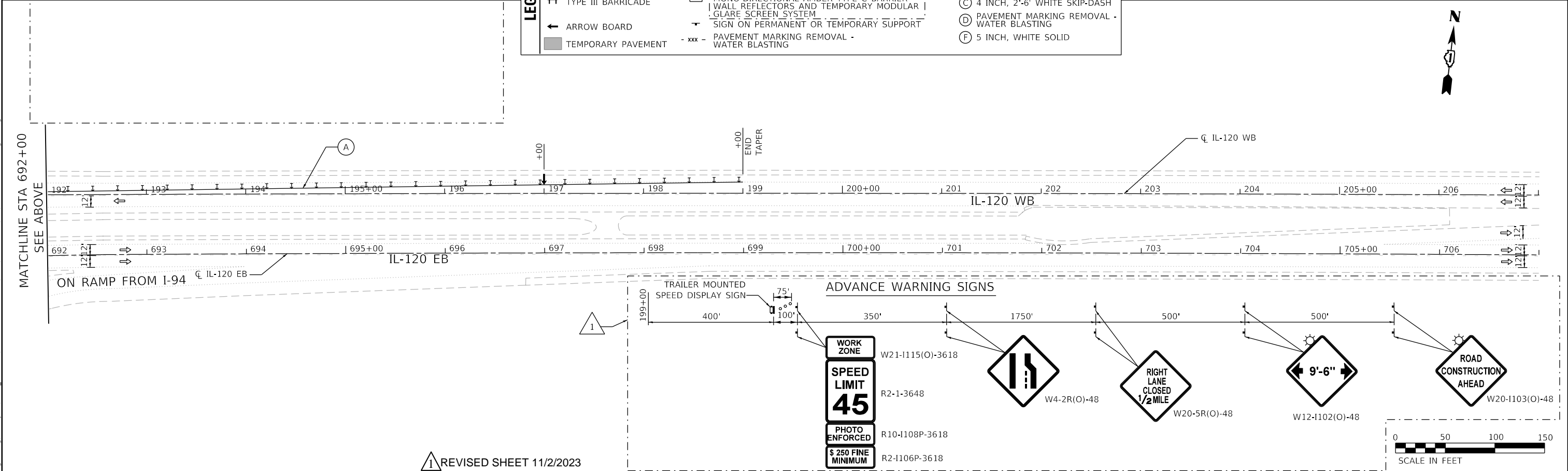
**MAINTENANCE OF TRAFFIC PLAN - STAGE I
 ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**

SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	26
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				



LEGEND	
	WORK AREA
	FLOW OF TRAFFIC
	TYPE III BARRICADE
	ARROW BOARD
	TEMPORARY PAVEMENT
	DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
	DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
	TEMPORARY CONCRETE BARRIER W/ MONO-DIRECTIONAL AMBER TYPE C BARRIER WALL REFLECTORS AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
	SIGN ON PERMANENT OR TEMPORARY SUPPORT
	PAVEMENT MARKING REMOVAL - WATER BLASTING
	TEMPORARY PAVEMENT MARKING - TYPE IV TAPE:
	4 INCH, WHITE SOLID
	4 INCH, YELLOW SOLID
	4 INCH, 2'-6" WHITE SKIP-DASH
	PAVEMENT MARKING REMOVAL - WATER BLASTING
	5 INCH, WHITE SOLID



1 REVISED SHEET 11/2/2023

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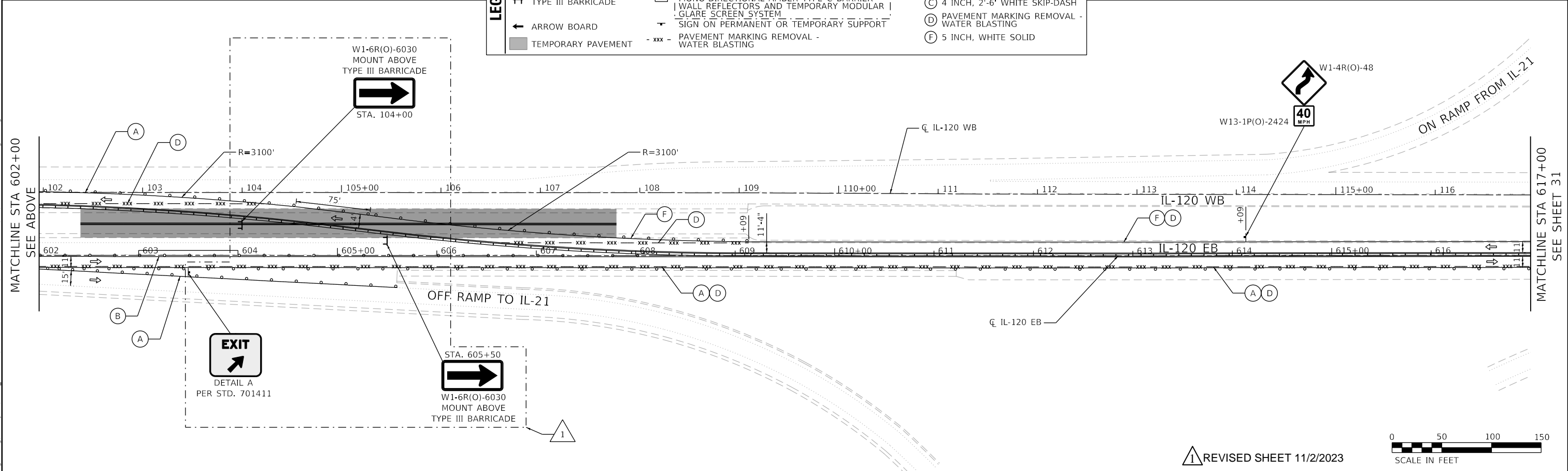
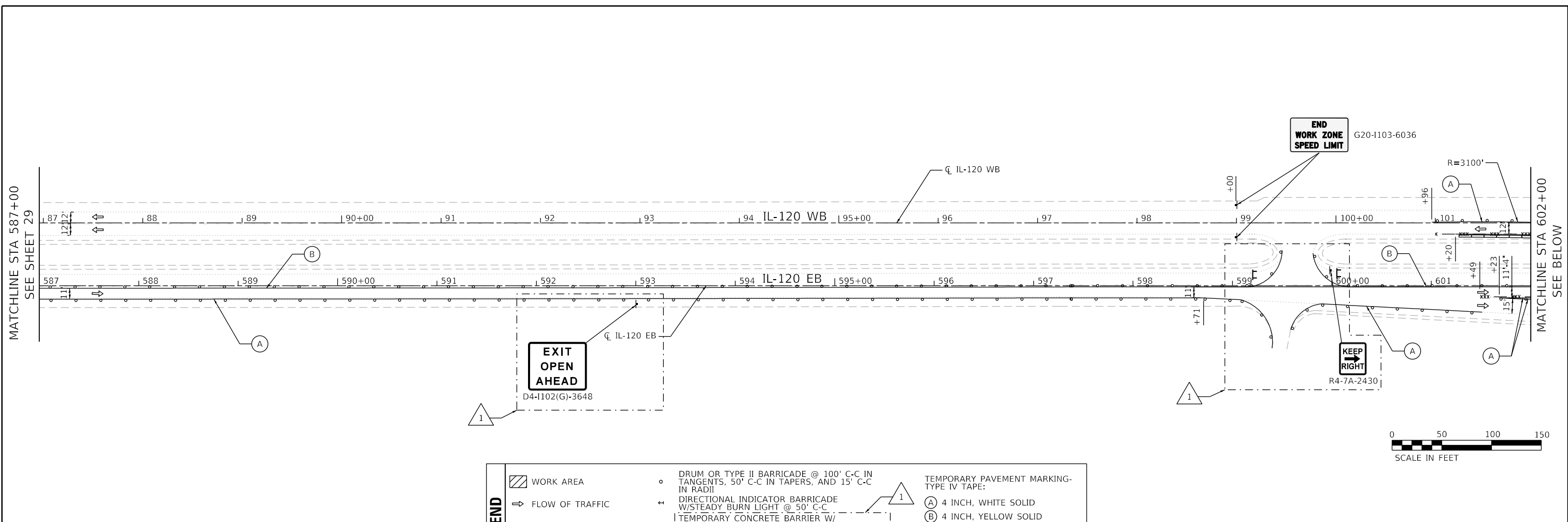
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PLOT SCALE = 100,0000' / 1in.	DRAWN - MA	REVISED -
PLOT DATE = 10/30/2023	CHECKED - JJD	REVISED -
	DATE - 06/20/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN - STAGE I
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER**

F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 28
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. TO STA.



MODEL: D:\m\h\...
 FILE: W:\m\h\...
 MODEL: D:\m\h\...
 FILE: W:\m\h\...



USER NAME = jschumann	DESIGNED - JJD	REVISED - 10/30/2023 JLS
PLOT SCALE = 100.0010' / in.	DRAWN - MA	REVISED -
PLOT DATE = 10/30/2023	CHECKED - JJD	REVISED -
	DATE - 06/20/2023	REVISED -

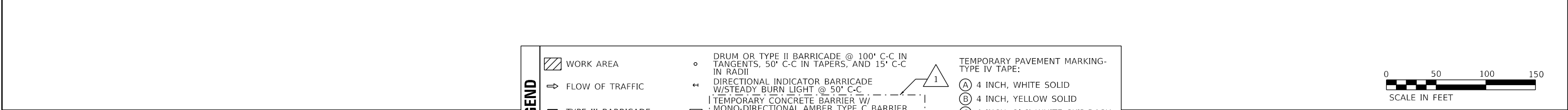
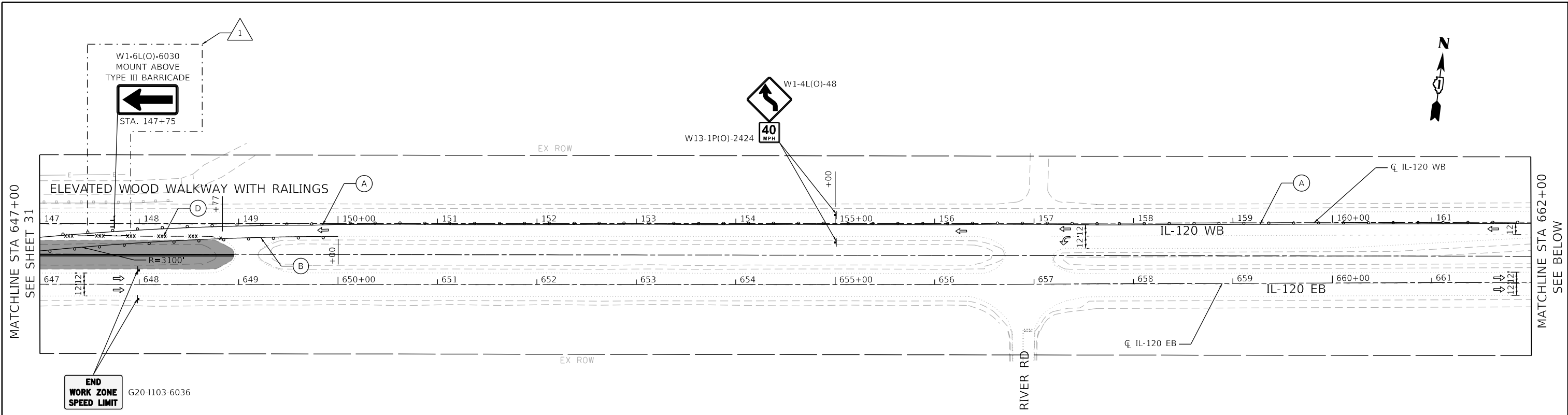
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC PLAN - STAGE II	
ILLINOIS ROUTE 120 OVER DES PLAINES RIVER	
SCALE: 1"=50'	SHEET 2 OF 5 SHEETS
STA. _____	TO STA. _____

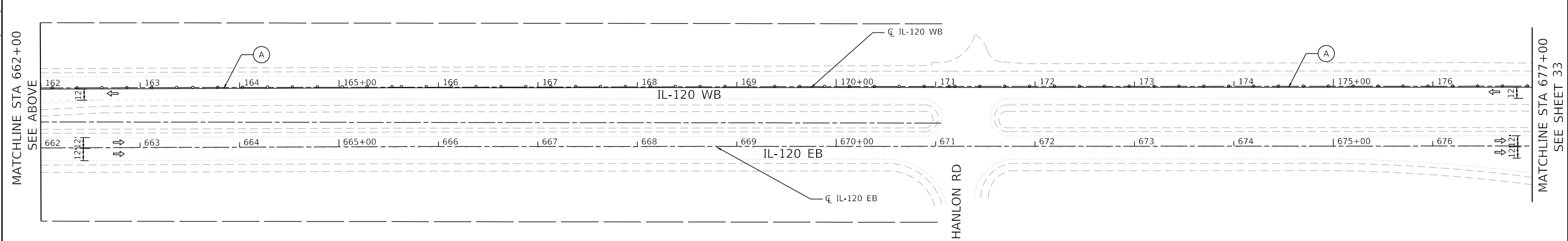
F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P09	

REVISOR SHEET 11/2/2023





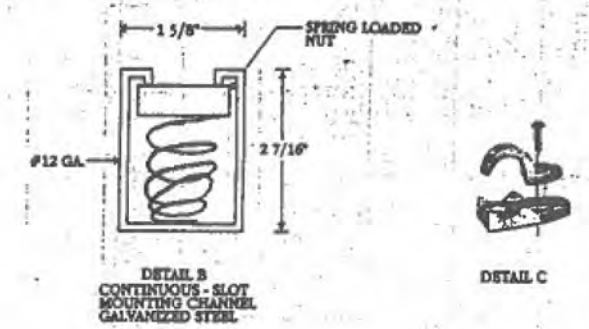
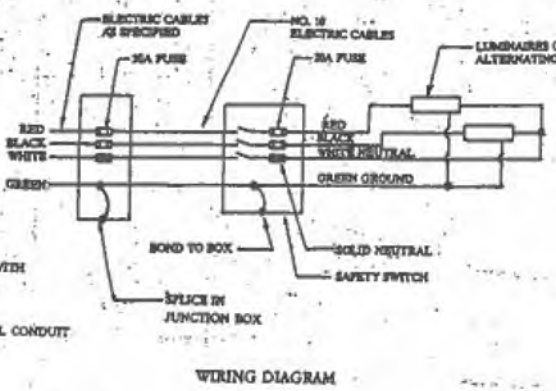
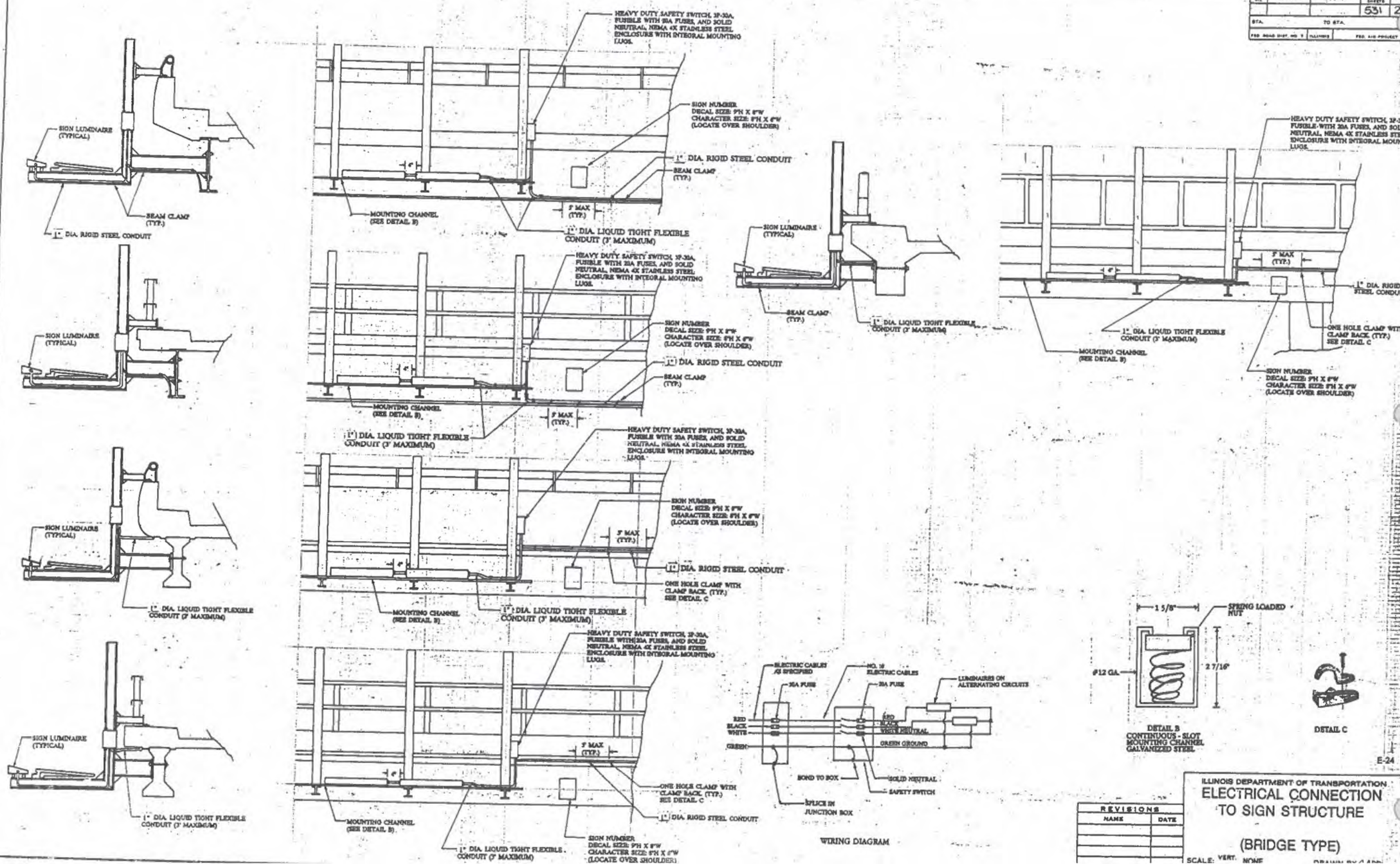
LEGEND	
	WORK AREA
	FLOW OF TRAFFIC
	TYPE III BARRICADE
	ARROW BOARD
	TEMPORARY PAVEMENT
	DRUM OR TYPE II BARRICADE @ 100' C-C IN TANGENTS, 50' C-C IN TAPERS, AND 15' C-C IN RADII
	DIRECTIONAL INDICATOR BARRICADE W/STEADY BURN LIGHT @ 50' C-C
	TEMPORARY CONCRETE BARRIER W/ MONO-DIRECTIONAL AMBER TYPE C BARRIER WALL REFLECTORS AND TEMPORARY MODULAR GLARE SCREEN SYSTEM
	SIGN ON PERMANENT OR TEMPORARY SUPPORT
	PAVEMENT MARKING REMOVAL - WATER BLASTING
	TEMPORARY PAVEMENT MARKING - TYPE IV TAPE:
	4 INCH, WHITE SOLID
	4 INCH, YELLOW SOLID
	4 INCH, 2'-6" WHITE SKIP-DASH
	PAVEMENT MARKING REMOVAL - WATER BLASTING
	5 INCH, WHITE SOLID



	USER NAME = jschumann	DESIGNED - JJD	REVISED - 10/30/2023 JLS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC PLAN - STAGE II ILLINOIS ROUTE 120 OVER DES PLAINES RIVER	F.A.P. RTE. 0333	SECTION 2021-071-BDR	COUNTY LAKE	TOTAL SHEETS 131	SHEET NO. 32
	PLOT SCALE = 100,0000' / in.	CHECKED - JJD	REVISED -			SCALE: 1"=50'	SHEET 4 OF 5 SHEETS	STA. TO STA.	CONTRACT NO. 62P09	
	PLOT DATE = 10/30/2023	DATE - 06/20/2023	REVISED -							

MODEL: D:\m\l...
 FILE: W:\m\l...
 MODEL: D:\m\l...
 FILE: W:\m\l...

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		531	26
STA. TO STA.		FED. AID DIST. NO. & ALIQUOTS	
		FED. AID PROJECT	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ELECTRICAL CONNECTION TO SIGN STRUCTURE
 (BRIDGE TYPE)

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME	DESIGNED	REVISED
mdelrche	- BL	- 10-30-2023
PLOT SCALE	DRAWN	REVISED
= 5SCALE5	- SR	-
PLOT DATE	CHECKED	REVISED
= 10/12/2023	- MH	-
	DATE	REVISED
	- 09-29-23	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL CONNECTION TO SIGN STRUCTURE
 (BRIDGE TYPE)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33AA
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

MODEL: 1400 DEC 2015
 FILE NAME: 032023 BDR 27.dwg

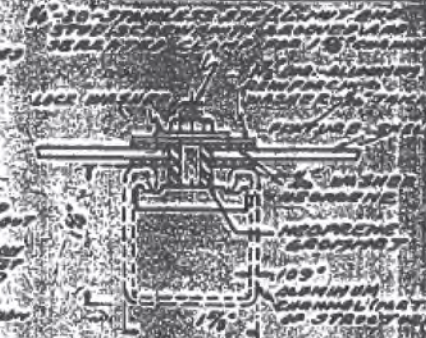
E-24

LT-27

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33BB
CONTRACT NO. 62P09				

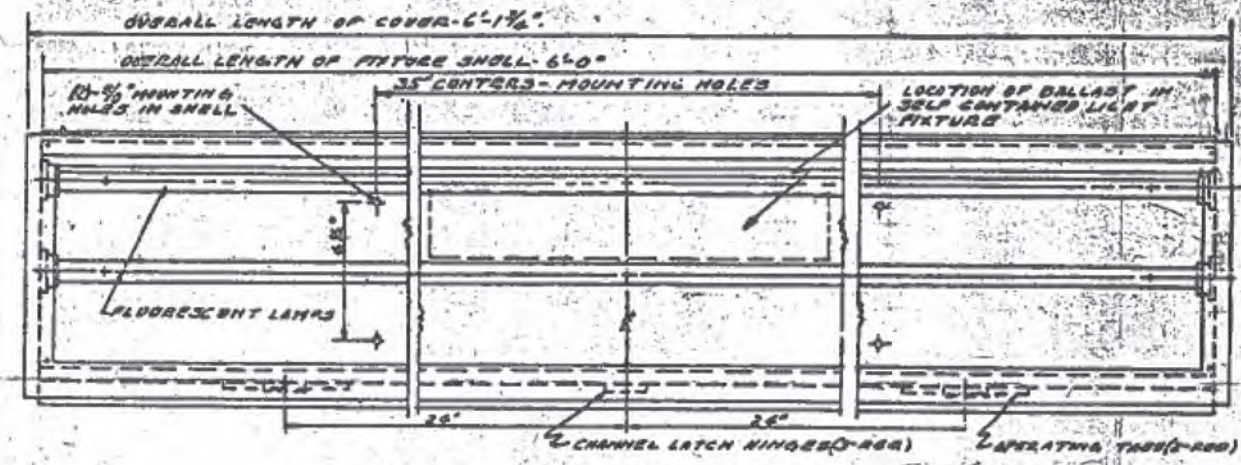
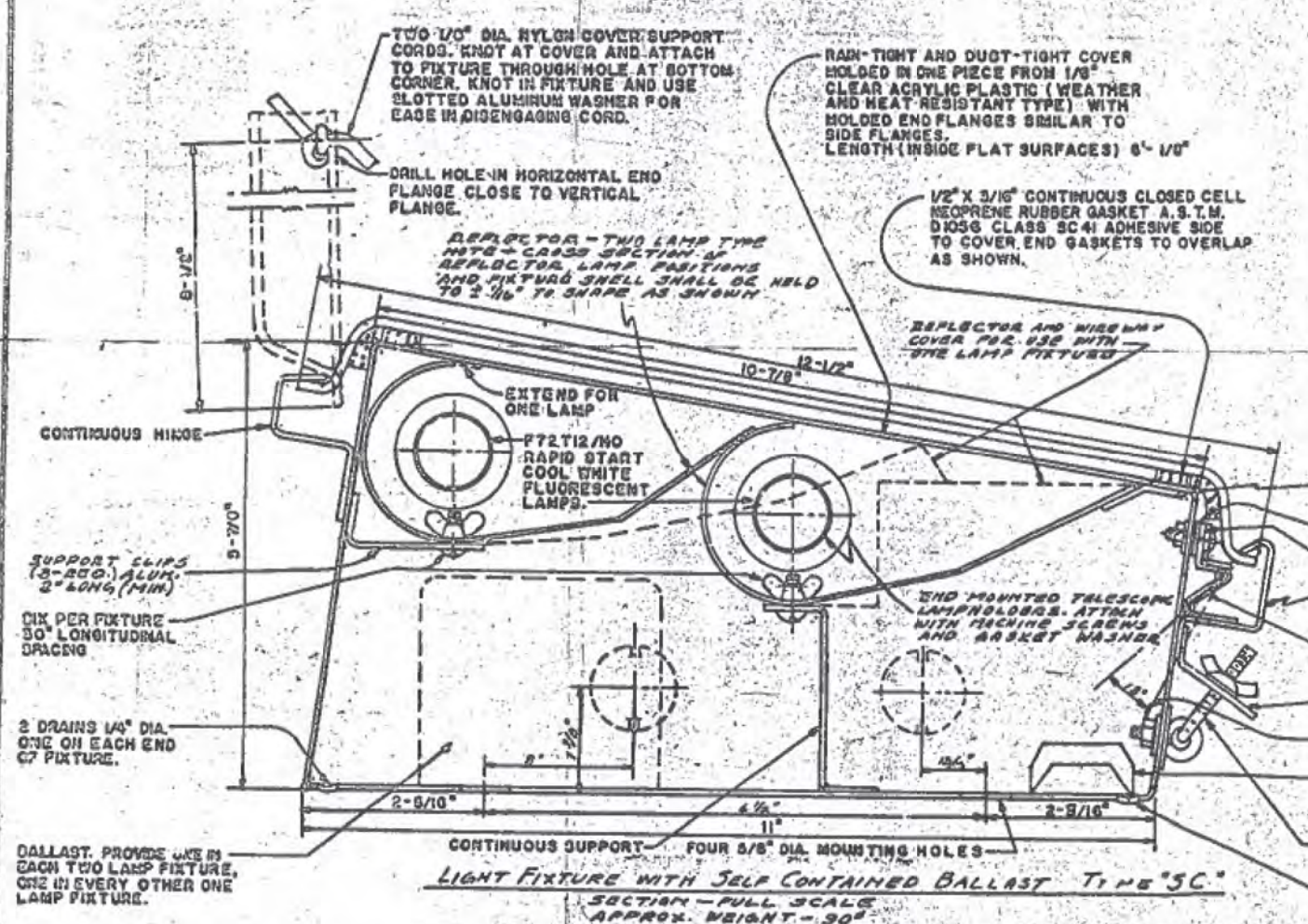
FIXTURE NOTES

LIGHTING FIXTURE SHALL BE FABRICATED OF 6061 ALUMINUM SHEET AS PER SPECIFICATION 14.5.1.1. B-155-157-114-N14. THIS INCLUDES SUPPORT CLIPS, REFLECTOR TABS, HINGES AND LOCKING LATCH. MACHINE SCREWS SHALL BE 304 STAINLESS STEEL. HINGES AND LOCKING LATCH SHALL BE ALUMINUM OR 316 STAINLESS STEEL UNLESS NOTED OTHERWISE. METAL PARTS SHALL BE 1/8" THICK UNLESS NOTED OTHERWISE. BRASS BRILLIANT WITH AN ANTI-CORROSION FINISH WHICH MEETS 33MAY. REFLECTOR SHALL BE MADE OF 0.020 (MIN) ALUMINUM LIGHTING SHEET WITH SPECULAR FINISH AND SHALL BE 60" Lx 60". REFLECTOR SHALL BE EASILY REMOVED FOR CLEANING WITHOUT NEED FOR PAINTING. DISTRIBUTION OF REFLECTOR SHAPE THE REFLECTING SURFACE SHALL BE PARABOLIC, TREATED AND SEALED TO OBTAIN A REFLECTANCE VALUE OF 95% TO COLLECT THE MOST LIGHTING CONTINUOUS OPERATION AT A SERVICE TEMPERATURE OF 250°F WITHOUT LOSS OF PERFORMANCE OR PHYSICAL PROPERTIES. AFTER A 100% SALT SPRAY TEST AT 100 HOURS AT 122°F WITH A 20% SALT SOLUTION REFLECTANCE AND SURFACE FINISH WILL BE UNCHANGED. TEST SHALL BE PERFORMED BY SALT SPRAY 5 MINUTES OF AIR, REPEATED THROUGHOUT THE LIFE OF OPERATION. BALLAST SHALL BE RATED AT 1800 MA, 200 VOLT AND DESIGNED FOR COLD WEATHER RELIABLE STARTING AT -20°F IN CONJUNCTION WITH RAPID START FLUORESCENT LAMPS 38 T12-40. LAMPS TO BE INSTALLED IN FIXTURE WITH 1" OF GROUNDED METAL SHEATHING. BALLAST SHALL BE INSTALLED WITH LAMPS. BALLAST AND TERMINAL BLOCKS SHALL BE MARKED WITH LEGIBLE SYMBOLS, CONDUCTED SHALL BE TAGGED AND THEIR CORRESPONDING IDENTIFICATION MARKED ON THE TERMINAL BOARD. THE CONTRACTOR SHALL AIM AND SINCE THE LIGHTING FIXTURE UNDER NIGHT CONDITIONS TO PROVIDE THE MOST ADVANTAGEOUS LIGHT DISTRIBUTION OVER THE SIGN SURFACE TO BE ILLUMINATED. FINAL AIMING OF THE FIXTURE SHALL BE APPROVED BY THE ENGINEER.

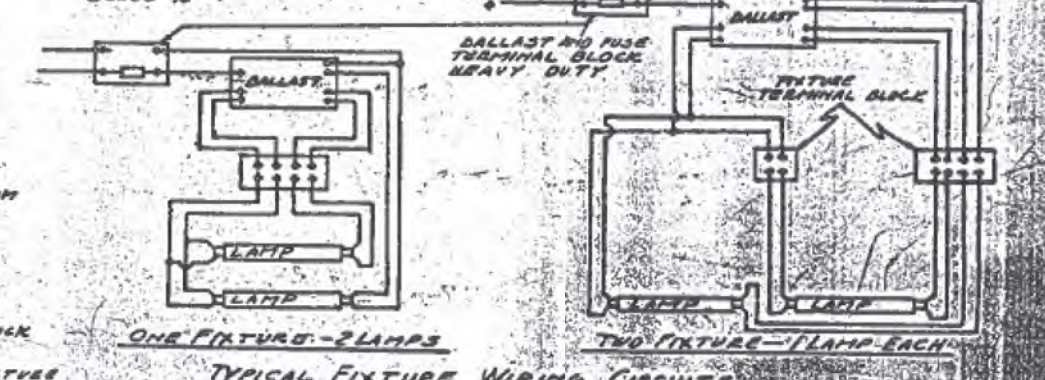


FIXTURE MOUNT DETAIL

SCALE - FULL
FURNISH FOUR SETS OF MOUNTING HARDWARE AS SHOWN, ATTACH TO FIXTURE.



PLAN - LIGHTING FIXTURE



TYPICAL FIXTURE WIRING CIRCUITS

REVISIONS	
NO.	DATE
1	09-29-23
2	10-30-23

ILLINOIS DIVISION OF HIGHWAYS
FLUORESCENT SIGN LIGHTING FIXTURES
OS-6A

SCALE: N.T.S.
DATE: 10-12-2023

DRAWN BY: [Signature]
CHECKED BY: [Signature]

MODEL: 10/12/2023
 FILE NAME: 033309 BDR 28.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME	mdelrche	DESIGNED	BL	REVISED	10-30-2023
PLOT SCALE	1/8"=1'-0"	DRAWN	SR	REVISED	
PLOT DATE	10/12/2023	CHECKED	MH	REVISED	
		DATE	09-29-23	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.		SHEET 1 OF 1 SHEETS		STA. TO STA.	
F.A.P. RTE.		SECTION		COUNTY	
0333		2021-071-BDR		LAKE	
				TOTAL SHEETS 131	
				SHEET NO. 33BB	
				CONTRACT NO. 62P09	
				ILLINOIS FED. AID PROJECT	

F. A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			531	28
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTROL CABINET GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 50.8 mm (2") TOPSOIL. LEVEL THE AREA AND ON TOP PLACE LENGTH WISE PARALLEL TO THE CONTROL CABINET. A CONCRETE PAD 914.4 mm (36") x 18.288 mm (60") X 101 mm (4") MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
3. DOOR SHALL BE CONSTRUCTED FROM THE SAME MATERIAL AND THICKNESS AS THE CABINET.
4. DOOR SHALL BE EQUIPPED WITH A THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP AND BOTTOM.
5. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6.35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
6. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
7. METER BOX SHALL BE MOUNTED ON THE SIDE OF THE CONTROL CABINET NEAREST TO THE SERVICE POLE.
8. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL"
9. THE CONTROL CABINET SHALL BE FABRICATED FROM 3.175 mm (0.125-INCH) THICK TYPE 5052-H32 ALUMINUM OR ANSI 304 STAINLESS STEEL.
10. THE CONTROL CABINET HANDLE SHALL BE PADLOCKABLE.

11. THE CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
12. CONTROL WIRING TO BE #12 AWG 600V TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZE TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE GROUND BUS SHALL BE PAINTED GREEN
14. ALL WIRING WITHIN THE CABINET SHALL BE COLOR-CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
15. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
16. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
17. 304.8 mm (12") X 406.4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL HAVE ENGRAVED 19.05 mm (0.75-INCH) HIGH LETTERS FILLED IN BLACK TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

E-8

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER
CONSOLE TYPE
SHEET 1 OF 2

REVISIONS	
NAME	DATE

SCALE: VERT. HORIZ.

DRAWN BY

LT-29

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeitche	DESIGNED - BL	REVISED - 10-30-2023
	DRAWN - SR	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 10/12/2023	DATE - 09-29-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER CONSOLE TYPE
SHEET 1 OF 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33CC
CONTRACT NO. 62P09				
ILLINOIS			FED. AID PROJECT	

MODEL: I:\PROJECTS\62P09\BDR\LT-29.dgn
FILE NAME: 033309 BDR LT-29.dgn

INDEX OF SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

239

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT LOCATED IN VILLAGE OF BURNET

DESIGN DESIGNATION

MILWAUKEE AVENUE: 2700 (21) ARTERIAL 3.00 (POC-CR)
WASHINGTON STREET: 3000 (21) ARTERIAL 4.03 (POC-20)

	ADT (2010)	DESIGN SPEED	POSTED SPEED
MILWAUKEE AVENUE	27,000	45 MPH	45 MPH
WASHINGTON STREET	30,000	45 MPH	45 MPH
IL 120	28,000	65 MPH	55 MPH

PROPOSED IMPROVEMENT

RECONSTRUCTION OF ILLINOIS ROUTE 21 FROM WASHINGTON STREET TO ILLINOIS ROUTE 120 INCLUDING SUPERSTRUCTURE REPLACEMENT OF IL 21 OVER I-94, REPLACEMENT OF STRUCTURE CARRYING IL 21 OVER IL 120, REPLACEMENT OF WARREN CEMETARY TRIBUTARY BOX CULVERT, EXTENSION OF IL 120 BRIDGE OVER BELVIDERE TRIBUTARY, FIVE RETAINING WALLS, DRAINAGE IMPROVEMENTS, TRAFFIC SIGNALS, ROADWAY LIGHTING AND OTHER RELATED WORK

DESCRIPTION OF PROJECT

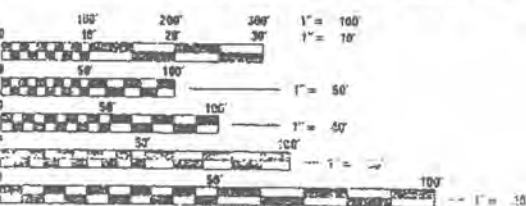
ILLINOIS 21 OVER I-94 BRIDGE SN 049-9901, BRIDGE WIDENING AND DECK REPLACEMENT

ILLINOIS 21 OVER WARREN CEMETARY TRIBUTARY CULVERT SN 049-0192. REMOVE EXISTING SINGLE BOX CULVERT AND REPLACE WITH TRIPLE BOX CULVERT.

ILLINOIS 21 OVER ILLINOIS 120, BRIDGE EXISTING SN 049-0026 AND SN 049-0026. REMOVE EXISTING 4 SPAN BRIDGE OVER IL 120 AND SLAB BRIDGE DECK OVER BELVIDERE TRIBUTARY AND REPLACE WITH NEW THREE SPAN BRIDGE OVER BOTH IL 120 AND BELVIDERE TRIBUTARY, SN 149-0179 (PROPOSED).

ILLINOIS 21 OVER BELVIDERE TRIBUTARY BRIDGE SN 049-0045. EXTEND EXISTING SLAB BRIDGE OVER BELVIDERE TRIBUTARY TO ACCOMMODATE NEW RAMP ENTRANCE.

RETAINING WALL NO. 1, STA 137+00 TO STA 140+00 RIGHT SN 049-W011.
RETAINING WALL NO. 2, STA 145+00 TO STA 148+50 RIGHT SN 049-W012.
RETAINING WALL NO. 3, STA 163+00 TO STA 165+00 RIGHT SN 049-W013.
RETAINING WALL NO. 4, STA 169+79 TO STA 172+19 RIGHT SN 049-W014.
RETAINING WALL NO. 5, STA 172+19 TO STA 179+00.23 RIGHT SN 049-W015.
CONSTRUCT SOLDIER PILE CONCRETE RETAINING WALLS ALONG IL 21.



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
1-800-492-0123

CONTRACT NO. 82309

PLANS FOR PROPOSED HIGHWAY DRAWINGS

FAP 330 (ILLINOIS 21 - MILWAUKEE AVENUE)

SECTION 128 R-2

PROJECT NO: ACNHF-330(32)

WASHINGTON STREET TO SOUTH OF IL 120
(BELVIDERE ROAD)

ROADWAY RECONSTRUCTION,
INTERCHANGE RECONSTRUCTION,
LIGHTING & TRAFFIC SIGNAL MODERNIZATION
AND INSTALLATION

LAKE COUNTY
C-91-079-93

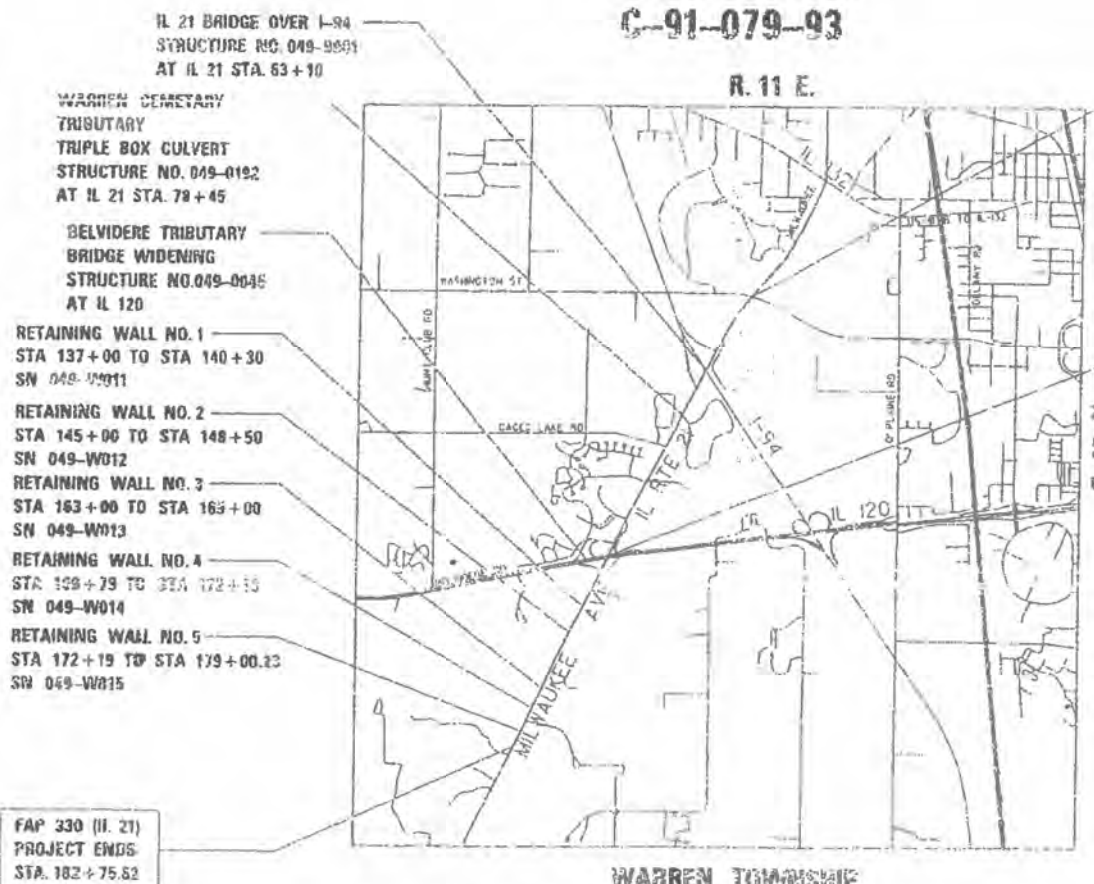
Libertyville, IL 60048-9504
Phone: 847-680-5200

RECORD
DRAWINGS

Date: 3-7-06
Initials: [Signature]

FAP 330 (IL 21)
PROJECT BEGINS
STA. 30+71.50

IL 21 BRIDGE OVER IL-120
STRUCTURE NO. 049-0026
049-0026 (EXISTING)
STRUCTURE NO. 049-0179 (PROPOSED)
AT IL-21 STA. 124+07



FAP 330 (IL 21)
PROJECT ENDS
STA. 182+75.52

WARREN TOWNSHIP

GRAND LENGTH OF PROJECT = 15,041.12 FT = 2.842 MI.
NET LENGTH OF PROJECT = 12,704.12 FT = 2.392 MI.

HEERIDGE ELECTRIC, INC.
26572 N. Bradley Road
Libertyville, IL 60048-9504
Phone: 847-680-5200

F.A.P. DIST.	SECTION	COUNTY	TOTAL SHEET NO.
330	128 R-2	LAKE	531 1



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: March 26, 2002
John P. Hill DISTRICT ENGINEER
May 10, 2002
Michael Hill ENGINEER OF DESIGN AND ENVIRONMENT
May 10, 2002
James H. Paster DIRECTOR, DIVISION OF HIGHWAYS

Signed Donald A. Jaksch
Donald A. Jaksch, P.E., Ill. Lic. No. 052-019314
Date: March 15, 2002

Signed Walter J. Gaffney
Walter J. Gaffney, P.E., Ill. Lic. No. 031-00561
Date: March 15, 2002

TYLINT INTERNATIONAL-BASCOR
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

MODEL NUMBER: 82309
FILE NAME: 032309.dwg
DATE: 12/20/01

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeitche	DESIGNED - BL	REVISED - 10/30/2023
PLOT SCALE = 5 SCALES	DRAWN - SR	REVISED -
PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33L

CONTRACT NO. 62P09
ILLINOIS FED. AID PROJECT

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	128 R-2	LAKE	531	4
ETA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-075-93				

GENERAL NOTES:

- THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS OPEN TO TRAFFIC AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, CABLE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED). CONTACT MR. BUD REED, VILLAGE ENGINEER, VILLAGE OF GURNEE AT (847) 623-7658, FOR WATER AND SEWER LOCATIONS.
- 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTERS AND MEDIAN ITEMS IN THE FIELD. UNLESS OTHERWISE SHOWN, THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF SPECIFIED WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET A YARD OR FIELD OFFICE ON STATE RIGHT-OF-WAY OR PROPERTY WITHOUT PRIOR WRITTEN PERMISSION FROM THE DEPARTMENT.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED (ONE WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL). ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
- NIGHT OPERATIONS: WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS THE ADJOINING RESIDENTIAL AREAS.
- ON STATE STANDARDS 482001 AND 483001, AGGREGATE SUBGRADE 12 INCHES SHALL BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST PER SQUARE YARD OF "AGGREGATE SUBGRADE 12 INCHES".
- ALL STORM SEWER CONNECTIONS WITH PIPES 27 INCHES IN DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 27 INCHES IN DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST "TEE" AND "WYE" PIPE CONNECTIONS FOR PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWERS.
- USE NO.25 (#8) EPOXY-COATED TIE BARS CONFORMING TO ARTICLE 1006.1 (B)(2) OF THE STANDARD SPECIFICATION FOR LONGITUDINAL CONSTRUCTION JOINT, GROUTED-IN-PLACE TIE BARS, AS SHOWN ON STATE STANDARDS 420001, AND FOR TYING PCC WIDENED TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS. THE COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS BEING CONSTRUCTED.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT). IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- SPECIAL UTILITY NOTE: DUE TO THE CONSTRUCTION ACTIVITIES BY OTHERS IN THE PROJECT AREA, UTILITY LOCATIONS SHOWN ON THESE PLANS MAY NOT BE CORRECT OR COMPLETE. THE CONTRACTOR MUST CONTACT J.U.L.I.E. (SEE NOTE 2) PRIOR TO CONSTRUCTION AND COORDINATE ACTIVITIES WITH THE ENGINEER.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR VARIOUS BITUMINOUS LIFTS.
- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
- STORM SEWER, WATER MAIN GRADE, IS TO BE USED AT LOCATIONS WHERE LATERAL SEPARATION BETWEEN THE SEWER AND WATERMAIN IS LESS THAN 10 FEET AND THE WATER MAIN INVERT IS LESS THAN 18 INCHES ABOVE THE STORM SEWER CROWN.
- STORM SEWER, RUBBER GASKET IS TO BE USED AT LOCATIONS WHERE THE WATERMAIN CROSSES BELOW THE SEWER, REGARDLESS OF VERTICAL SEPARATION OR WHERE THE BOTTOM OF WATERMAIN IS LESS THAN 18 INCHES ABOVE THE TOP OF THE SEWER.
- THE REMOVAL OF EXISTING DRIVEWAY AND FIELD ENTRANCE CULVERTS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- BOXXED ITEMS ARE INCLUDED IN THIS CONTRACT.
- ALL PAVED DITCHES SHALL CONFORM TO DOT STANDARD 606401 FOR PAVED DITCHES. ALL PAVED DITCHES SHALL BE TYPE A-30 UNLESS OTHERWISE NOTED.

PROJECT COMMITMENTS:

CONSTRUCTION OF BOTTOMLESS BOX CULVERTS OR BRIDGE ABUTMENTS TO AVOID DISTURBANCE OF STREAMBEDS WHERE IOWA DARTER HABITAT IS IDENTIFIED- BELVIDERE TRIBUTARY. NO EARTHWORK OR LAND CLEANING AT THESE LOCATIONS AND NO INSTREAM WORK DURING SPANNING MONTHS OF APRIL AND MAY AND NO IN-STREAM WORK ALLOWED- STREAM-WORK-ALLOWED-

AT BELVIDERE TRIBUTARY, TREE AND VEGETATION REMOVAL AND EARTHWORK/LAND CLEANING WITHIN THE DRAINAGE AREA OF THE STREAM IS LIMITED TO THE AREA OF THE PROPOSED IMPROVEMENTS.

AT BELVIDERE TRIBUTARY, EROSION CONTROL MEASURES SHALL BE APPLIED TO PREVENT SEDIMENT FROM ENTERING THE STREAM. DAILY INSPECTIONS ARE REQUIRED.

INSTREAM WORK TO BE MINIMIZED DURING REMOVAL OF EXISTING STRUCTURE AND RAMP ON EXISTING EASTBOUND RAMP C AT IL 21 AND IL 120 INTERCHANGE.

TREES TO BE REPLACED ON A 1:1 BASIS WITH NURSERY STOCK WHERE FEASIBLE. FORESTED AREAS TO BE REPLACED WITH SEEDING TREES ON A 3:1 BASIS WHERE APPROPRIATE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

BITUMINOUS MIXTURE REQUIREMENTS	
MIXTURE USE(S): AC/PG: RAP % (MAX): DESIGN AIR VOIDS:	POLYMERIZED SURFACE COURSE. SUPERPAVE, MIX "E", N90 SBS/SBR PG 70-22 0 4% @ 90 Gyr.
MIXTURE USE(S): AC/PG: RAP % (MAX): DESIGN AIR VOIDS:	LEVELING BINDER (MM), SUPERPAVE, (N70) SBS/SBR PG 70-22 0 4% @ 70 Gyr.
MIXTURE USE(S): AC/PG: RAP % (MAX): DESIGN AIR VOIDS:	INCIDENTAL SURFACING PG 58-22 30 4% @ 30 Gyr.
MIXTURE USE(S): AC/PG: RAP % (MAX): DESIGN AIR VOIDS:	BASE COURSE, SUPERPAVE, 12 1/2" PG 58-22 25 4% @ 50 Gyr.
MIXTURE USE(S): AC/PG: RAP % (MAX): DESIGN AIR VOIDS:	BASE COURSE, SUPERPAVE, 6" PG 58-22 30 4% @ 30 Gyr.
MIXTURE USE(S): AC/PG: RAP % (MAX): DESIGN AIR VOIDS:	SHOULDER, SUPERPAVE, 8" PG 58-22 30 2% @ 30 Gyr.

INDEX OF STATE STANDARDS

STD. NO.	TITLE
000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
420001-03	PAVEMENT JOINTS
420101-01	7.2m (24') HINGE-JOINTED PCC PAVEMENT
420106-01	10.9m (36') HINGE-JOINTED PCC PAVEMENT
420111	PCC PAVEMENT ROUNDOUTS
420201-02	TYPICAL ENTRANCE RAMP TERMINAL
420301-01	TYPICAL EXIT RAMP TERMINAL
420401-04	BRIDGE APPROACH PAVEMENT
420701	PAVEMENT FABRIC
424001-02	CURB RAMPS ACCESSIBLE TO THE DISABLED
482001	BITUMINOUS SHOULDER DETAILS ADJACENT TO FLEXIBLE PAVEMENT
482006-01	BITUMINOUS SHOULDER DETAILS ADJACENT TO RIGID PAVEMENT
483001	PCC SHOULDER
503001-01	CONCRETE PARAPET SLIP-FORMING OPTION
515001-02	NAME PLATE FOR BRIDGES
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311	GRATING FOR CONCRETE FLARED END SECTION (FOR 600 MM (24 ") TRSU (54") PIPE
542401	METAL END SECTION FOR PIPE CULVERTS
601001	SUB-SURFACE DRAINS
602001	CATCH BASIN, TYPE A
602006	CATCH BASIN, TYPE B
602011	CATCH BASIN, TYPE C
602301	INLET, TYPE A
602401	MANHOLE, TYPE A
602406	MANHOLE, TYPE A, 1800MM (72") DIAMETER
602501	VALVE VAULT, TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701	CAST IRON STEPS
604001-01	FRAME AND LIDS, TYPE 1
604031	GRATE, TYPE 7
604036	GRATE, TYPE 8
604091	FRAME AND GRATE, TYPE 24
606001-01	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
606006	OUTLET FOR CONCRETE CURB AND GUTTER TYPE B 15.60 (66.24)
606301-02	PC CONCRETE ISLANDS AND MEDIANS
606306-01	CORRUGATED PC CONCRETE MEDIANS
606401	PAVED DITCH
630001-03	STEEL PLATE BEAM GUARDRAIL
630201-02	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-01	SHOULDER WIDENING AT TYPE I (SPECIAL) GUARDRAIL TERMINALS
631031-03	TRAFFIC BARRIER TERMINAL, TYPE G
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MOUNTING AND MARKER DETAILS
637001-01	CONCRETE BARRIER
641001	SIGHT SCREEN CEDAR STOCKADE FENCE, TYPE S
654001-01	CHAIN LINK FENCE
665001	WOVEN WIRE FENCE
666001	RIGHT-OF-WAY MARKERS
701006-01	OFF-ROAD OPERATIONS, 2L 2W, 4.5 M (15') TO 600 MM (24") AWAY, SPEEDS > 45 MPH
701011	OFF-ROAD MOVING OPERATIONS, 2L 2W DAY ONLY FOR SPEEDS > 45 MPH
701201-01	LANE-CLOSURE, 2L 2W, DAY ONLY, ON ROAD TO 600 MM OFF-ROAD, FOR SPEEDS > 45 MPH
701301-01	LANE-CLOSURE, 2L 2W, SHORT TIME OPERATIONS, FOR SPEEDS > 45 MPH
701306	LANE-CLOSURE, 2L 2W, SLOW MOVING DAY ONLY OPERATIONS, FOR SPEEDS > 45 MPH
701321-05	LANE-CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER FOR SPEEDS > 45 MPH
701326-01	LANE-CLOSURE, 2L 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701406-02	LANE-CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH
701431-01	LANE-CLOSURE, MULTILANE, UNDIVIDED WITH CROSSOVERS, FOR SPEEDS > 45 MPH
701501-02	LANE-CLOSURE, 2L 2W, UNDIVIDED, FOR SPEEDS < 45 MPH
701601-03	LANE-CLOSURE, MULTILANE, 1W OR 2W, WITH NON TRANSVERSE MEDIAN, FOR SPEEDS < 45 MPH
701606-03	LANE-CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN, FOR SPEEDS < 45 MPH
701801-03	LANE-CLOSURE, MULTILANE 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, FOR SPEEDS < 45 MPH
702001-02	TRAFFIC CONTROL DEVICES
704001	TEMPORARY CONCRETE BARRIER
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS (SIGNM, MARKERS, AND DELINEATORS)
720016	MAST ARM MOUNTED STREET NAME SIGNS
729001	APPLICATIONS OF TYPE A AND TYPE B METAL POSTS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
813001-01	JUNCTION BOXES
814001	CONCRETE HANDHOLES
814006	DOUBLE HANDHOLES
877001	STEEL MAST ARM ASSEMBLY AND POLE
877011	STEEL COMBINATION MAST ARM AND POLE
878001	CONCRETE FOUNDATION DETAILS
880001	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATION
886006	TYPICAL LAYOUT FOR DETECTION LOOPS
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCE
805001	ELECTRICAL SERVICE INSTALLATION

ALDRIDGE ELECTRIC, INC
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RECORD DRAWINGS
 2-2-06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 21 (MILWAUKEE AVENUE)
 WASHINGTON STREET TO IL ROUTE 120
 COMMITMENTS, GENERAL NOTES
 AND STATE STANDARDS
 SCALE: NONE DRAWN BY: TB

MODEL NAME: 032009 Bdr113.dgn

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdeitche	DESIGNED - BL	REVISED - 10/30/2023
PLOT SCALE = 5SCALE5	DRAWN - SR	REVISED -
PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 21 (MILWAUKEE AVE.) - WASHINGTON STREET TO IL ROUTE 120
 COMMITMENTS, GENERAL NOTES AND STATE STANDARDS
 SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33M
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

IDOF CODE NO.	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	J000-2A	80% FED./20% STATE		80% FED./20% STATE		80% FED./20% STATE		80% FED./20% STATE		TRAFFIC SIGNAL INTER-CONNECT Y031-IF	LIGHTING Y030-1E	80% FED./20% STATE SIGNING Y062-1C	100% LAKE CO. PUBLIC WORKS Y060	VILLAGE OF CURNEE
					IL 21 OVER I-94 X281-2A	IL 21 OVER IL 120 X271-2A	IL 120 OVER BELVIDERE TRIBUTARY X020-2A	RETAINING WALLS Y007	SOX CULVERTS X028-2A	TSM IL 21 WASHINGTON TRAFFIC SIGNALS Y031-IF	TSM IL 21 GAGES LAKE TRAFFIC SIGNALS Y031-IF	TSM IL 21 RAMP A&B TRAFFIC SIGNALS Y031-IF					
* 82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	9														9
* 83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT MAST ARM	EACH	39											32			7
* 83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	615										495				120
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	41										33				8
* 84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	31										13				8
* 84200700	LIGHTING FOUNDATION REMOVAL	EACH	39										20				19
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	10										9				1
* 84500110	REMOVAL OF EXISTING LIGHTING CONTROLLER	EACH	1										1				
* 85700205	FULL-ACTUATED CONTROLLER IN TYPE IV CABINET, SPECIAL	EACH	3														
* 85700305	FULL-ACTUATED CONTROLLER IN TYPE V CABINET, SPECIAL	EACH	1														
* 85900100	TRANSCIEVER	EACH	1														
* 86000105	MASTER CONTROLLER (SPECIAL)	EACH	1														
* 86400100	TRANSCIEVER - FIBER OPTIC	EACH	4														
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 2C	FOOT	1241														
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3C	FOOT	2500														
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C	FOOT	7431														
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7C	FOOT	4390														
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO.14, 1 PAIR	FOOT	14077														
* 87301705	ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 18, 3 PAIR	FOOT	5410														
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	221														
* 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16FT	EACH	3														
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16FT	EACH	7														
* 87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18FT	EACH	3														
* 87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24FT	EACH	1														
* 87701180	STEEL MAST ARM ASSEMBLY AND POLE, 28FT	EACH	1														
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40FT	EACH	1														
* 87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44FT	EACH	2														
* 87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50FT	EACH	1														
* 87702850	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 24FT	EACH	1														1
* 87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34FT	EACH	1														1
* 87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 40FT	EACH	3														3
* 87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44FT	EACH	1														1
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	44														
* 87800200	CONCRETE FOUNDATION, TYPE D	FOOT	16														
* 87800400	CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	159														
* 87900200	DRILL EXISTING HANDHOLE	EACH	4														
* 88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	26														
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	39														
* 88700200	LIGHT DETECTOR	EACH	10														10
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	4														4
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	6														
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2														
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2000											2000			
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2														
X0320870	BRACED EXCAVATION	CU YD	540														

ALDRIDGE ELECTRIC, INC.
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RECORD DRAWINGS

Date: 3.7.06
 Initials: [Signature]

* INDICATES SPECIALITY ITEMS
 P 3-77-30

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 21 (MILWAUKEE AVENUE)
 WASHINGTON STREET TO IL ROUTE 120
 SUMMARY OF QUANTITIES
 SHEET 7 OF 10

SCALE: NONE DRAWN BY: CB
 DATE: 03-15-2002 CHECKED BY: DA

MODEL: 1400.DWG
 FILE NAME: 032009 Bdr115.dwg

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
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USER NAME	DESIGNED - BL	REVISED - 10/30/2023
	DRAWN - SR	
PLOT SCALE	CHECKED - MH	
PLOT DATE	DATE - 09-29-23	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 21 (MILWAUKEE AVE.) - WASHINGTON STREET TO IL ROUTE 120
 SUMMARY OF QUANTITIES SHEET 7 OF 10

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	330
CONTRACT NO. 62P09			ILLINOIS FED. AID PROJECT	

LT-15

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	125 A-2	LAKE	531	12

IDOT CODE NO.	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	BOY FED / 201 STATE										LIGHTING Y03C-1E	ILLINOIS BOY FED. SIGNING Y002-1C	ILLINOIS LAKE CO. PUBLIC WORKS Y060	VILLAGE OF GURNEE
				J000-2A	IL 21 OVER I-94 X281-2A	IL 21 OVER IL 120 X271-2A	IL 120 OVER BELVIDERE TRIBUTARY X070-2A	RETAINING WALLS Y007	BOX CULVERTS X028-2A	TSM IL 21 WASHINGTON TRAFFIC SIGNALS Y031-1F	TSM IL 21 GAGES LAKE TRAFFIC SIGNALS Y031-1F	TSM IL 21 RAMP A&B TRAFFIC SIGNALS Y031-1F	TSM IL 21 RAMP C&D TRAFFIC SIGNALS Y031-1F				
X0321863	TEMPORARY BRACING SYSTEM	L SUM	1														
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	155	155													
X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	735	735													
X0323427	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER	EACH	49	49													
X0323484	DRILLING AND SETTING SOLDIER PILES	CY FT	18510						18510								
X0712400	TEMPORARY PAVEMENT	SO YD	8053	8053													
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 IC	FOOT	9822														
X3550300	BITUMINOUS BASE COURSE, SUPERPAVE, 6 INCH	SQ YD	2922	2922										9822			
X3550910	BITUMINOUS BASE COURSE, SUPERPAVE, 12 1/2 INCH	SQ YD	1571	1571													
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	22	22													
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	10	10													
X4023000	TEMPORARY ACCESS (ROAD)	EACH	11	11													
X4066536	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX E, N90	TON	870	870													
X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70	TON	315	315													
X8040100	ELECTRIC CONNECTION TO SIGN STRUCTURE	EACH	1	1													
X8050015	SERVICE INSTALLATION, POLE MOUNT	EACH	4														
X8160115	UNIT DUCT, WITH 2-1/2" NO.8 AND 1/2" NO.10 GROUND, 600 V (EPR TYPE RHW) 1"	FOOT	1545														1545
X8160345	UNIT DUCT, WITH 3-1/2" NO.8 AND 1/2" NO.10 GROUND, 600 V (EPR TYPE RHW) 1"	FOOT	1537														1537
X8160112	UNIT DUCT, WITH 2-1/2" NO.6 AND 1/2" NO.8 GROUND, 600 V (EPR TYPE RHW) 1 1/4"	FOOT	3112														3112
X8160350	UNIT DUCT, WITH 3-1/2" NO.6 AND 1/2" NO.8 GROUND, 600 V (EPR TYPE RHW) 1 1/4"	FOOT	9695														9695
X8210055	FLUORESCENT LUMINAIRE FOR SIGN LIGHTING	EACH	3														
X8250085	LIGHTING CONTROLLER, DUPLEX, CONSOLE TYPE	EACH	2														
X8250400	LIGHTING CONTROLLER, PEDESTAL MOUNT	EACH	2														
X8710020	FIBER OPTIC CABLE IN CONDUIT, 62.5 / 125, MM 12F & SM 12F	FOOT	10175														
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/2"	FOOT	2664														
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20, 3/4", TWISTED, SHIELDED	FOOT	2158							796	602	710	556	10175			
X8800035	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10														
X8800020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	16							1	3	3	3				
X8800040	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4							4	3	3	6				
X8800045	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	9							1			3				
X8800040	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2							6	1	1	1				
X8805280	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3							2							
X8805370	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2							1	1	1					
X8810610	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4								1	1					
X8810620	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1							2			2				
781D1000	TERMINAL MARKER, DIRECT APPLIED	EACH	21	21						1							
X0323670	FLOATING BEARING, FIXED, 700K	EACH	12														
Z0001050	AGGREGATE SUBGRADE, 12INCH	SO YD	140023	140023													
Z0002600	BAR SPLICERS	EACH	4307			975	3133			199							
Z0006700	BRIDGE DRAINAGE SYSTEM	EACH	1			0.37	0.63										
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1													

ALDRIDGE ELECTRIC, INC.
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RECORD DRAWINGS

Date: 3-7-06
 Initials: [Signature]

* INDICATES SPECIALITY ITEMS

SEE P.138 FOR CONSTRUCTION TYPE CODES/PARTICIPATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 21 (MILWAUKEE AVENUE)
 WASHINGTON STREET TO IL ROUTE 120
 SUMMARY OF QUANTITIES
 SHEET 8 OF 10

SCALE: NONE DRAWN BY: EB

MODEL: I:\PROJECTS\2009\BDR\116.dgn FILE NAME: 032009 BDR116.dgn

AMES Engineering, Inc.
 CONSULTING ENGINEERS
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USER NAME - mdeitche	DESIGNED - BL	REVISED - 10/30/2023
PLOT SCALE - 1/8"=1'-0"	DRAWN - SR	REVISED -
PLOT DATE - 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 21 (MILWAUKEE AVE.) - WASHINGTON STREET TO IL ROUTE 120
 SUMMARY OF QUANTITIES SHEET 8 OF 10
 SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33P
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

LT-16

IDCT CODE NO.	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	80% FED/20% STATE					80% FED/10% STATE/10% LAKE COUNTY		80% FED/20% STATE				TRAFFIC SIGNAL INTER-CONNECT Y031-IF	LIGHTING Y030-IE	80% FED/20% STATE SIGHING Y002-1C	100% LAKE CO. PUBLIC WORKS Y060	VILLAGE OF GURNEL
				JK09-2A	IL 21 OVER 1-94 X251-2A	IL 21 OVER IL 120 X271-2A	IL 120 OVER BELVIDERE TRIBUTARY X020-2A	RETAINING WALLS Y007	BOX CULVERTS X020-2A	TSM IL 21 @ WASHINGTON TRAFFIC SIGNALS Y031-IF	TSM IL 21 @ GAGES LAKE TRAFFIC SIGNALS Y031-IF	TSM IL 21 @ RAMP A&B TRAFFIC SIGNALS Y031-IF	TSM IL 21 @ RAMP C&D TRAFFIC SIGNALS Y031-IF						
Z0013825	CONTROLLED LOW-STRENGTH MATERIAL	CUYD	233					233											
Z0017900	DRAINAGE SCUPPER	EACH	36		20	16													
Z0018913	DRILL AND GROUT #8-TIE BARS.	EACH	525	525															
Z0022800	FENCE REMOVAL	FOOT	8024	8024															
Z0036600	PARAPET RAILING	FOOT	61			61													
Z0047300	PROTECTIVE SHIELD	SOYD	3550		1946	1710													
Z0056100	SAND MODULE IMPACT ATTENUATOR (TEMPORARY)	EACH	44	44															
Z0056700	SANITARY SEWER, 4 INCH	FOOT	2304	2304															
Z0067500	STEEL CASING, 16 INCH	FOOT	20	20															
Z0076600	TRAINEES	HOURL	5000	5000															
X0323685	DETENTION BASIN OUTLET STRUCTURE NO.1	EACH	1	1															
X0323681	DETENTION BASIN OUTLET STRUCTURE NO.2	EACH	1	1															
XX011700	WATER MAIN FITTINGS	POUND	2386	1160														1826	
XX002814	1 INCH SERVICE RECONNECTION	EACH	2	2															
X0323682	BARE COPPER WIRE, NO. 2/0	FOOT	160													80		80	
X0323683	RELOCATE AIR RELEASE VALVE	EACH	2	2															
X0323684	RELOCATE WATER VALVE	EACH	1	1															
X0323670	PREFORMED DETECTOR LOOP	FOOT	4041							1767	660	550	1064						
X002056	REOPTIMIZE EXISTING TRAFFIC SIGNAL SYSTEM	EACH	1											1					
TWY04060	GRANULAR SUBBASE (TOLLWAY)	CU YD	223	223															
TWY04066	PORTLAND CEMENT CONCRETE PAVEMENT, 12" (TOLLWAY)	SO YD	1069	1069															
TWY04067	BITUMINOUS CONCRETE SHOULDERS, 6" (TOLLWAY)	SO YD	256	256															
TWY04061	AGGREGATE SHOULDERS WITHOUT FILTER FABRIC (TOLLWAY)	TON	15	15															
TWY04062	BITUMINOUS CONCRETE SHOULDER REMOVAL AND REPLACEMENT, TYPE II, (TOLLWAY)	SO YD	259	259															
TWY04069	GUARDRAIL REMOVAL (TOLLWAY)	FGOT	64	64															
TWY01250	GUARDRAIL ANCHOR INSTALLATION, TYPE 2 (TOLLWAY)	EACH	1	1															
TWY04063	CONCRETE MEDIAN BARRIER BASE, TYPE 1, SPECIAL (TOLLWAY)	FOOT	104	104															
TWY04064	CONCRETE MEDIAN BARRIER, TYPE 1, SINGLE FACE (TOLLWAY)	FOOT	104	104															
TWY04065	CONCRETE MEDIAN BARRIER TRANSITION, (TOLLWAY)	FOOT	41	41															
TWY04066	CONCRETE MEDIAN BARRIER AND BASE REMOVAL (TOLLWAY)	FOOT	69	69															
TWY04067	LIGHT POLE FOUNDATION (ROADWAY) CONCRETE (TOLLWAY)	EACH	2	2															
TWY04032	EPOXY PAVEMENT MARKING, LINE 4" (TOLLWAY)	FOOT	338	338															
TWY04057	MOVABLE CONCRETE BARRIER SECTIONS, FURNISH (TOLLWAY)	FOOT	2020	2020															
TWY04068	MOVABLE CONCRETE BARRIER TRANSITION END SECTIONS, FURNISH (TOLLWAY)	EACH	2	2															
TWY04069	COATED CORRUGATED STEEL PIPE, 24"	FOOT	65	65															
TWY04070	CONCRETE HEADWALLS AND COLLARS, (CLASS P) (TOLLWAY)	CU YD	8.6	8.6															
TWY04071	HEADWALL GRATES (TOLLWAY)	LBS	1023	1023															
TWY04082	TEMPORARY INERTIAL CRASH CUSHION MODULES (TOLLWAY)	EACH	2	2															
K0030410	PERENNIAL PLANTS, STELLA DE ORO DAYLILIES	UNIT	7.5	7.5															
A2002516	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	16	16															
A2003520	TREE, FRAXINUS AMERICANA AUTUMN PURPLE (AUTUMN PURPLE WHITE ASH), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	29	29															
A2004120	TREE, FRAXINUS PENNSYLVANICA PATMORE (PATMORE GREEN ASH), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	72	72															
A2004820	TREE, GLEDITSIA TRIACANTHOS INERMIS SKYLINE (SKYLINE THORNLESS COMMON HONEYLOCUST),	EACH	31	31															

ALDRIDGE ELECTRIC, INC.
 28572 N. Bradley Road
 Libertyville, IL 60048-9504
 Phone: 847-680-5200

RECORD DRAWINGS

Date: 3-2-06
 Initials: [Signature]

* INDICATES SPECIALITY ITEMS
 □ SFTY - 3N
 70 Y080

SEE P. 138 FOR CONSTRUCTION TYPE CODES/PARTICIPATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 21 (MILWAUKEE AVENUE)
 WASHINGTON STREET TO IL ROUTE 120
 SUMMARY OF QUANTITIES
 SHEET 9 OF 10
 SCALE: NONE
 DATE: 03-15-2007
 DRAWN BY: CB
 CHECKED BY: DAJ

MODEL NUMBER: 63309 BDR117.dwg FILE NAME: 032009 BDR117.dwg

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME	DESIGNED	REVISED
mdeitche	BL	10-30-2023
PLOT SCALE	CHECKED	REVISED
= 5CALES	MH	
PLOT DATE	DATE	REVISED
10/12/2023	09-29-23	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 21 (MILWAUKEE AVE.) - WASHINGTON STREET TO IL ROUTE 120
 SUMMARY OF QUANTITIES SHEET 9 OF 10
 SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	330
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

LT-17

#236042

SECTION	COUNTY	TOTAL SHEETS
1330 128 R-2	LAKE	531
STA.	TO STA.	
ILLINOIS FED. AID PROJECT		
0-91-079-93		

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	9
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	36
LIGHTING CONTROLLER, TABLE CONSOLE TYPE	EACH	2
LIGHTING CONTROLLER, PEDESTAL MOUNT	EACH	2
GROUND ROD, 3/4" DIA. X 10 FT.	EACH	59
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	556
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	64
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1637
CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	1579
CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., GALVANIZED STEEL	FOOT	100
UNIT DUCT, WITH 3 - 1/2" NO. 6 AND 1/2" NO. 8 GROUND, 600 V (EPR TYPE RHW) 1 1/2" POLYETHYLENE	FOOT	9695
UNIT DUCT WITH 2 - 1/2" NO. 6 AND 1/2" NO. 8 GROUND, 600 V (EPR TYPE RHW) 1 1/2" POLYETHYLENE	FOOT	3112
UNIT DUCT, WITH 3 - 1/2" NO. 8 AND 1/2" NO. 10 GROUND, 600 V (EPR TYPE RHW) 1" POLYETHYLENE	FOOT	1537
UNIT DUCT WITH 2 - 1/2" NO. 8 AND 1/2" NO. 10 GROUND, 600 V (EPR TYPE RHW) 1" POLYETHYLENE	FOOT	1545
ELECTRIC CABLE IN CONDUIT, 600V (EPR TYPE RHW), 3-1/2" NO. 1	FOOT	124
ELECTRIC CABLE IN CONDUIT, 600V (EPR TYPE RHW), 3-1/2" 350 MCM	FOOT	139
LIGHT POLE, ALUMINUM, 47.8 FT. M.H., 19 FT. MAST ARM	EACH	39
BREAKAWAY DEVICE, TRANSFORMER BASE, 1.5" BOLT CIRCLE	EACH	41
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	615
JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE 8"X8"X6"	EACH	0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8"X8"X6"	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	15669
RELOCATE EXISTING LIGHTING UNIT	EACH	8
REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	31
REMOVAL OF LIGHTING CONTROLLER	EACH	1
LIGHTING FOUNDATION REMOVAL	EACH	39
2/0 BARE COPPER WIRE	FOOT	160
SIGN LIGHTING (FLUORESCENT)	EACH	3
ELECTRIC CONNECTION TO SIGN STRUCTURE	EACH	4
ELECTRIC SERVICE INSTALLATION	EACH	4
ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLE FOUNDATIONS, CENTER LINE OF TRENCH AND PUSHES AND THE LIGHTING CONTROLLER FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING. GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXOTHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURING WARNING TAPE. SPECIFIED AS PART OF "TRENCH AND BACKFILL FOR ELECTRICAL WORK". THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIKE SHALL REMAIN WITH THE CONTRACTOR.
- NO LIGHT POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR THE ELECTRICAL SERVICE FOR THE PROPOSED ROADWAY LIGHTING. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRIC UTILITY COMPANY.
- THE LIGHTING CONTROLLER SHALL BE CONSTRUCTED TO ULI STANDARD 50B AND BEAR THE LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- TO MAINTAIN STRUCTURAL INTEGRITY OF THE ALUMINUM POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT POLES SHALL NOT BE PAID UNTIL THE LUMINAIRES ARE INSTALLED.
- UNLESS OTHERWISE NOTED, ALL CONVENTIONAL ALUMINUM LIGHT POLES SHALL BE PROVIDED WITH BREAKAWAY DEVICES, AS SPECIFIED.
- NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION BY THE ENGINEER. ANY EQUIPMENT OR MATERIAL DELIVERED TO THE JOB SITE PRIOR TO APPROVAL AND INSPECTION SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- CONDUIT PUSHED AND IN TRENCH SHALL EXTEND TWO (2) FEET BEYOND THE SHOULDER, CURB OR DRIVEWAY, AS APPLICABLE.
- THE CONTRACTOR SHALL PROVIDE A 3/4" X 10' COPPER CLAD GROUND ROD AT EACH LIGHT POLE (REFER TO THE FOUNDATION DETAIL).
- THE UNIT DUCT AND CONDUIT SHALL BE INSTALLED MIN. 30 INCHES BELOW FINISHED GRADE (UNLESS DIRECTED OTHERWISE). COMPLETE WITH WARNING TAPE. CONTRACTOR SHALL HAND DIG TEST HOLES FOR EVERY 1000 FT. OF TRENCHING/PLOWING FOR ENGINEER'S APPROVAL OF THE INSTALLATION.
- MATERIALS AND INSTALLATION METHODS SHALL COMPLY WITH CODES AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION. NATIONAL ELECTRICAL CODE (LATEST REVISION) SHALL BE CONSIDERED AS A MINIMUM REQUIREMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTACT UTILITIES PRIOR TO THE START OF ANY EXCAVATION WORK.
- BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL COMED FOR APPROVAL OF LOCATION.
- FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL COMED.
- MATERIAL QUANTITIES ARE APPROXIMATIONS ONLY. IT IS CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL QUANTITIES PRIOR TO ORDERING MATERIAL.
- THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND STAGING WITH THE ROADWAY WORK AS REQUIRED.
- A STAGING SCHEDULE FOR MATERIAL INSTALLATION AND APPROXIMATE DATE OF PROPOSED ENERGIZING OF LIGHTING SHALL BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK TO ASSURE COORDINATION WITH EXPEDITED WORK SCHEDULE.
- COMMONWEALTH EDISON COMPANY SHALL BE CONTACTED AS SOON AS POSSIBLE AND NOTIFIED OF PENDING SERVICE CONNECTIONS AND INSTALLATIONS TO INSURE CONTINUITY OF NIGHT TIME HOURS OF LIGHTING OPERATION.
- ALL PROPOSED LIGHTING CONTROL CABINETS SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY. THE EXACT LOCATION TO BE CONFIRMED IN THE FIELD BY THE RESIDENT ENGINEER.
- ALL PROPOSED LIGHT POLE FOUNDATIONS, UNIT DUCT, AND CONDUIT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY. THE EXACT LOCATION IS TO BE CONFIRMED IN THE FIELD BY THE RESIDENT ENGINEER.
- THESE DRAWINGS ARE IN CONJUNCTION WITH ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD DETAILS AND SPECIFICATIONS.
- EACH WIRE SHALL BE IDENTIFIED AT EACH POLE BY APPROPRIATE CONTROLLER AND CIRCUIT NUMBER.
- THE CONTRACTOR SHALL SUBMIT "RECORD DRAWINGS" A MINIMUM OF 7 DAYS PRIOR TO THE FINAL INSPECTION. "RECORD DRAWINGS" SHALL BE UPDATED REGULARLY DURING CONSTRUCTION AND INDICATE ALL LIGHTING MATERIAL INSTALLATION WITH ANY CHANGES IN RED.
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF ENGINEER.
- THE CONTRACTOR SHALL NOT PROCEED WITH CUTTING OF TREES OR CLEARING OF RIGHT-OF-WAY WITHOUT WRITTEN NOTIFICATION OF ENGINEER.
- THE CONTRACTOR TO VERIFY FOUNDATION BOLT PATTERN PRIOR TO CONSTRUCTION FOUNDATIONS.
- UNLESS OTHERWISE NOTED, ALL UNIT DUCT PROVIDED BY THIS CONTRACT WITH CIRCUITS CONNECTED TO THE PROPOSED CONTROL CABINET SHALL BE 1 1/2" DUCT WITH 3 #6 (BK. R AND W COLOR CODED) AND 1 #8 (GREEN INSULATED GROUND CONDUCTOR).
- ALL PVC CONDUIT IS TO TRANSITION TO RCS CONDUIT PRIOR TO ENTERING JUNCTION BOXES.
- NO SPLICES SHALL BE MADE WITHIN CONDUIT, UNIT DUCT OR JUNCTION BOXES. ALL SPLICES SHALL BE MADE INSIDE THE POLE BASES.
- THE SPACING BETWEEN LIGHT POLES SHALL BE AS SHOWN ON THE PLANS. ANY DEVIATION SHALL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- ALL LANE CLOSURES SHALL BE COORDINATED WITH IDOT.
- ALL LIGHT POLES SHALL BE ILL. LISTED.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING (SUCH AS DECORATIVE ROCKS, SHRUBS, PLANTS, SOUND WALLS, ETC.) OR SHALL REPLACE IT. THE COST OF SUCH RESTORATION OR REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL LUMINAIRES SHALL BE EQUIPPED WITH IDOT STANDARD LUMINAIRE KEEPERS. THIS ITEM SHALL BE INCIDENTAL TO LUMINAIRES.

ALDRIDGE ELECTRIC, INC.
28572 N. Bradley Road
Libertyville, IL 60048-9504
Phone: 847-680-5200

ALDRIDGE ELECTRIC, INC.
28572 N. Bradley Road
Libertyville, IL 60048-9504
Phone: 847-680-5200

RECORD DRAWINGS

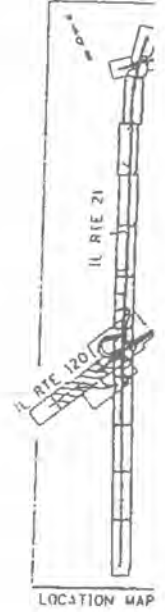
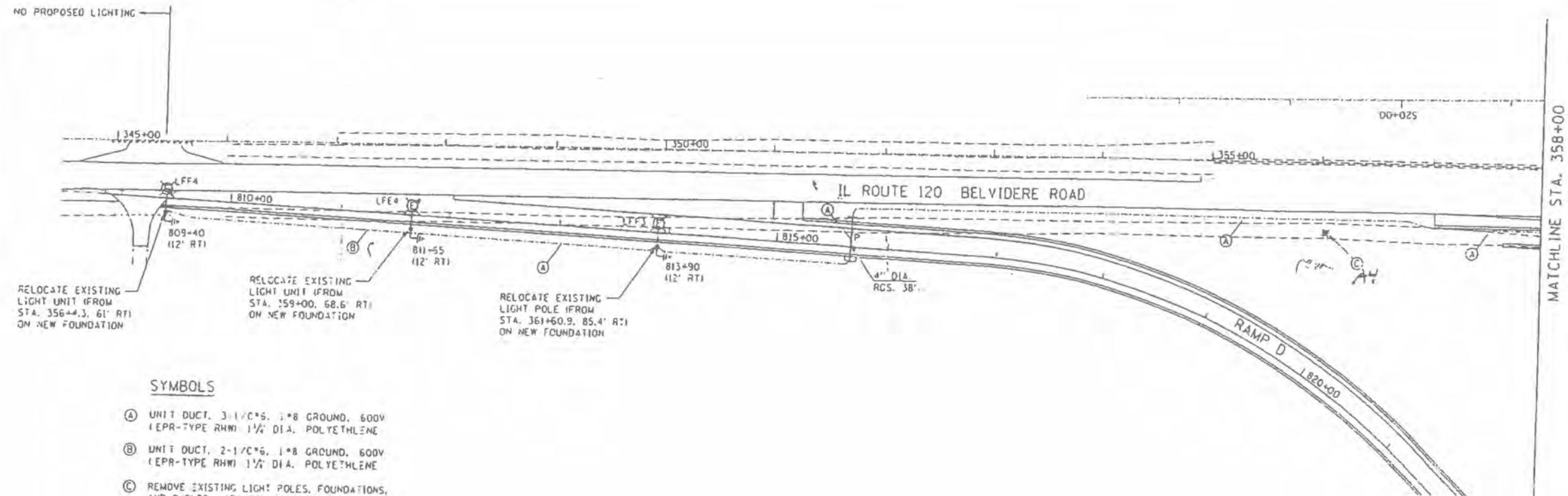
Date: 3-2-06
Initials: DJG

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 21 (MILWAUKEE AVENUE)
WASHINGTON STREET TO IL ROUTE 120
LIGHTING CONSTRUCTION NOTES
AND BILL OF MATERIALS

SCALE: NONE DRAWN BY: BK
DATE: 03-15-2002 CHECKED BY: JLD/DAJ

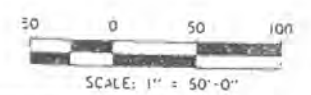
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
330	128 R-2	LAKE	531
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
D-91-019-93			



- SYMBOLS**
- (A) UNIT DUCT, 3-1/2\"/>
 - (B) UNIT DUCT, 2-1/2\"/>
 - (C) REMOVE EXISTING LIGHT POLES, FOUNDATIONS, AND CABLES. ABANDON CONDUITS, DELIVER SALVAGED MATERIALS TO THE OWNER.
 - (D) PROPOSED LIGHT POLE ON PARAPET WALL



- LEGEND**
- CONTROLLER
 - SERVICE INSTALLATION
 - JUNCTION BOX 8\"/>
 - JUNCTION BOX 8\"/>
 - GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED
 - UNIT DUCT
 - EXISTING RELOCATED LIGHT POLE
 - LIGHT POLE, 47\"/>
 - COMBINATION TRAFFIC SIGNAL AND LIGHTING POLE
 - GROUND ROD
 - EXISTING LIGHT POLE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 21 (MILWAUKEE AVENUE)
 WASHINGTON STREET TO IL ROUTE 120
LIGHTING PLAN
 RAMP D
 SCALE: 1\"/>

ALDRIDGE ELECTRIC, INC.
 28572 N. Bradley Road
 Libertyville, IL 60048-9504
 Phone: 847-680-5200

RECORD DRAWINGS

Date: 5-3-96
 Initials: [Signature]

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = mdeitche	DESIGNED - BL	REVISED - 10/30/2023
	PLOT SCALE = 5/SCALE5	DRAWN - SR	REVISED -
	PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
		DATE - 09-29-23	REVISED -

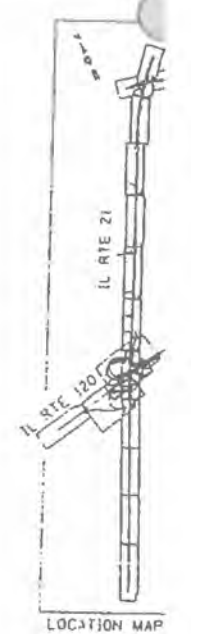
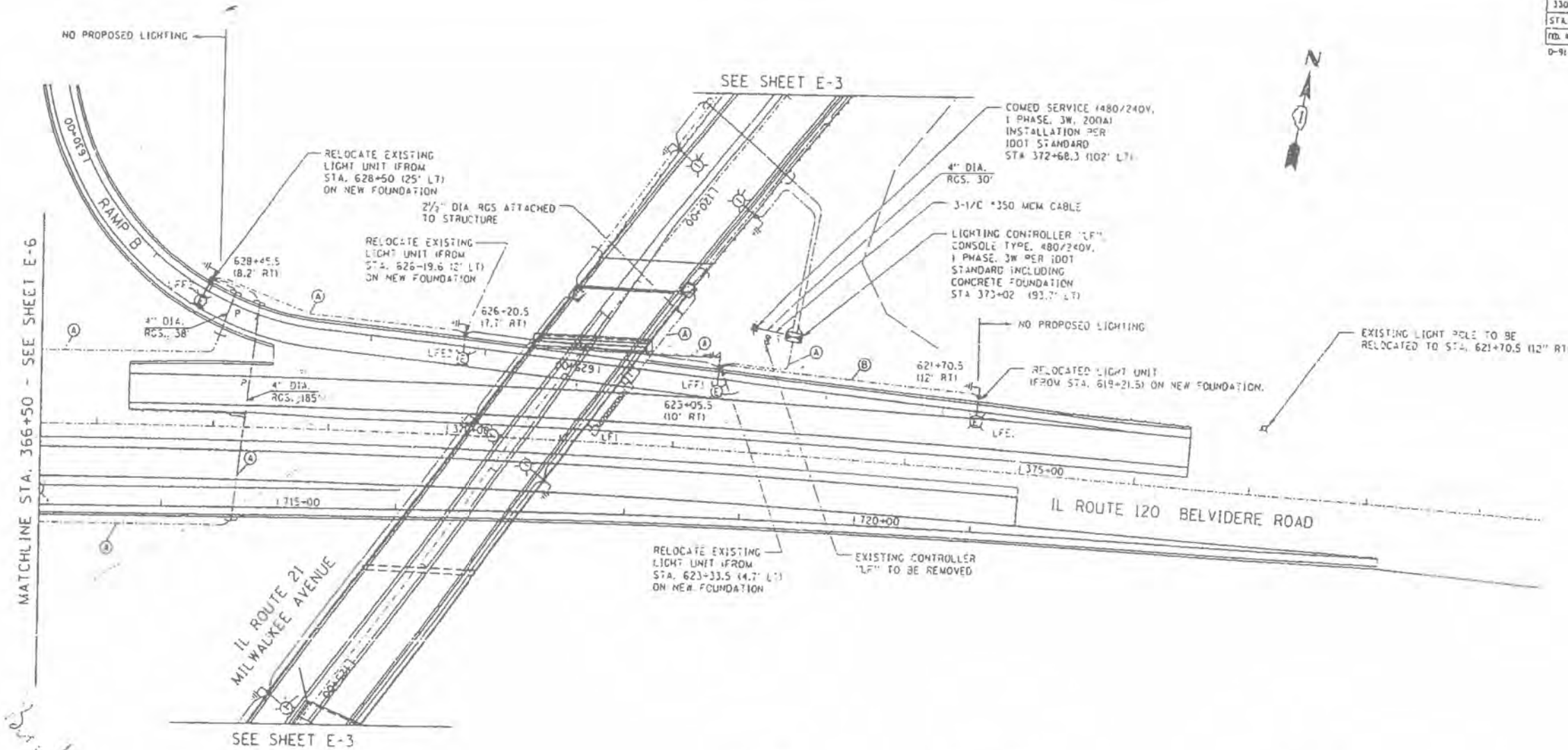
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 21 (MILWAUKEE AVE.) - WASHINGTON STREET TO IL ROUTE 120			
LIGHTING PLAN RAMP D			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. TO STA.

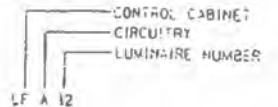
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	335
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

MODEL NUMBER: 032009
 FILE NAME: 032009 Bldg 120.dgn

SHEET NO.	SECTION	COUNTY	TOTAL SHEETS
330	128 R-2	LAKE	531
STA.	TO STA.		
FED. ROAD DIST. NO.	BLINDIFIED AID PROJECT		
0-91-079-93			

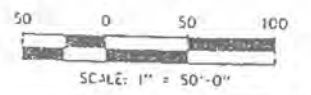


- SYMBOLS**
- (A) UNIT DUCT, 3-1/2"x5, 1"x8 GROUND, 600V (EPR-TYPE RHM 1 1/2" DIA, POLYETHYLENE)
 - (B) UNIT DUCT, 2-1/2"x5, 1"x8 GROUND, 600V (EPR-TYPE RHM 1 1/2" DIA, POLYETHYLENE)
 - (C) REMOVE EXISTING LIGHT POLES, FOUNDATIONS, AND CABLES. ABANDON CONDUITS, DELIVER SALVAGED MATERIALS TO THE OWNER.
 - (D) PROPOSED LIGHT POLE ON PARAPET WALL



- LEGEND**
- PROPOSED**
- CONTROLLER
 - SERVICE INSTALLATION
 - JUNCTION BOX 8"X8"X6" STAINLESS STEEL EMBEDDED IN STRUCTURE
 - JUNCTION BOX 8"X8"X6" STAINLESS STEEL ATTACHED TO STRUCTURE
 - GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED
 - UNIT DUCT
 - EXISTING RELOCATED LIGHT POLE
 - LIGHT POLE, 47' 15" MOUNTING HEIGHT, 15' MAST ARM, 30' FOUNDATION
 - COMBINATION TRAFFIC SIGNAL AND LIGHTING POLE
 - GROUND ROD
 - EXISTING LIGHT POLE

NOTE:
FOR LIGHTING LAYOUT ALONG IL ROUTE 2 SEE SHEET E-3.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL ROUTE 21 (MILWAUKEE AVENUE)
WASHINGTON STREET TO IL ROUTE 120
LIGHTING PLAN
RAMP B

SCALE: 1"=50'-0"

DATE: 03-15-2002

DRAWN BY: BL

CHECKED BY: AJD/BL

GE ELECTRIC, INC.
N. Bradley Road
Arlington, IL 60048-9504
847-680-5200

JRD
DRAWINGS
3.7.06

MODEL NAME: 032009 BdrL 2023.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME	mdelriche	DESIGNED -	BL	REVISED -	10/30/2023
DRAWN -	SR	REVISOR -		REVISION -	
PLOT SCALE	= 5/SCALE	CHECKED -	MH	REVISION -	
PLOT DATE	= 10/12/2023	DATE -	09-29-23	REVISION -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 21 (MILWAUKEE AVE.) - WASHINGTON STREET TO IL ROUTE 120
LIGHTING PLAN RAMP B

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33T
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

LT-20

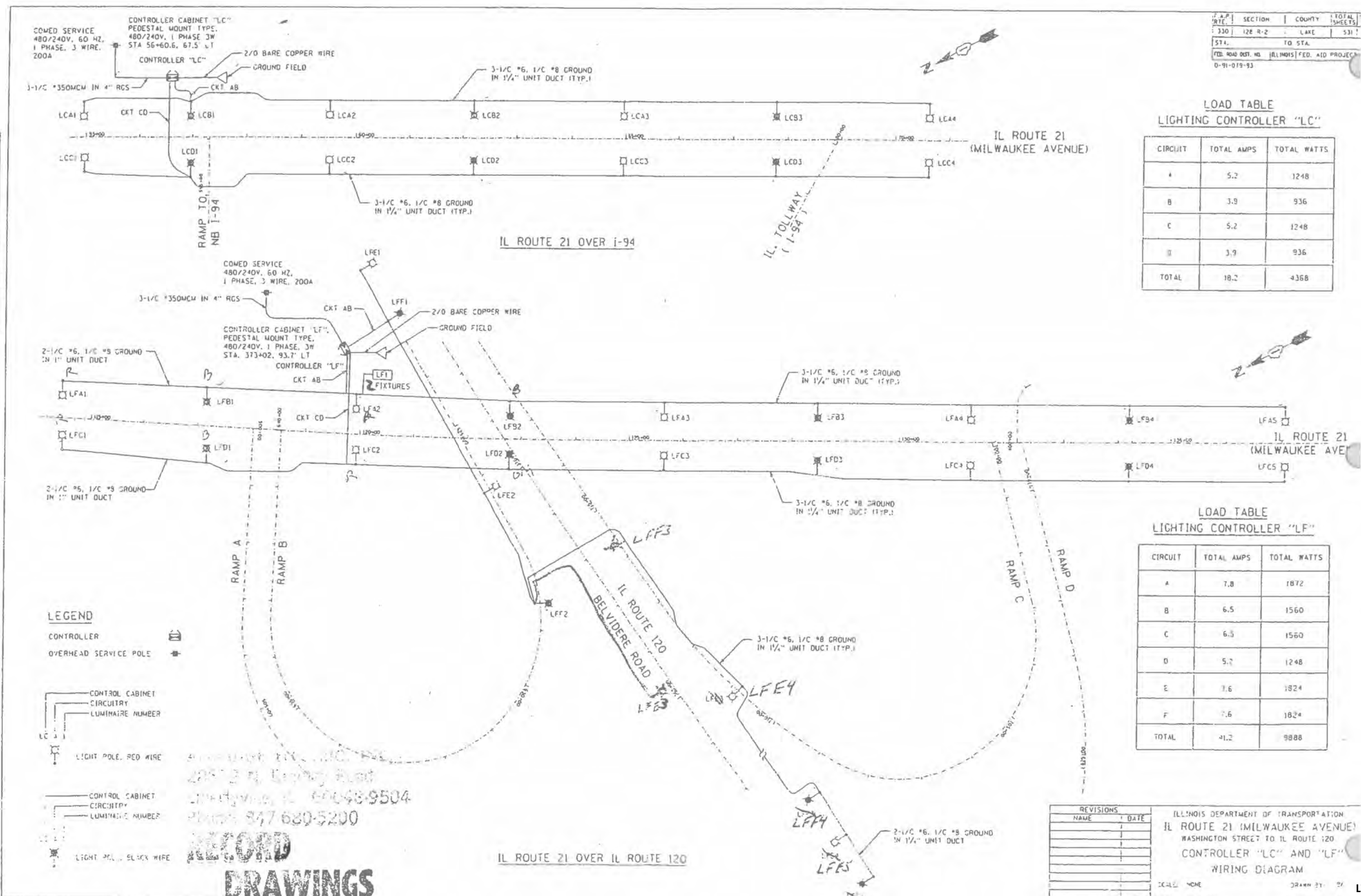
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
330	128 R-2	LAKE	331
STA.	TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 0-91-019-93			

LOAD TABLE
LIGHTING CONTROLLER "LC"

CIRCUIT	TOTAL AMPS	TOTAL WATTS
A	5.2	1248
B	3.9	936
C	5.2	1248
D	3.9	936
TOTAL	18.2	4368

LOAD TABLE
LIGHTING CONTROLLER "LF"

CIRCUIT	TOTAL AMPS	TOTAL WATTS
A	7.8	1872
B	6.5	1560
C	6.5	1560
D	5.2	1248
E	7.6	1824
F	7.6	1824
TOTAL	41.2	9888



LEGEND
 CONTROLLER [Symbol]
 OVERHEAD SERVICE POLE [Symbol]

CONTROL CABINET CIRCUITRY [Symbol]
 LUMINAIRE NUMBER [Symbol]

LIGHT POLE, RED WIRE [Symbol]

CONTROL CABINET CIRCUITRY [Symbol]
 LUMINAIRE NUMBER [Symbol]

LIGHT POLE, BLACK WIRE [Symbol]

RECORD DRAWINGS
 295 E. Liberty Street
 Chicago, IL 60604-9504
 Phone: 312-680-5200

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 IL ROUTE 21 (MILWAUKEE AVENUE)
 WASHINGTON STREET TO IL ROUTE 120
 CONTROLLER "LC" AND "LF"
 WIRING DIAGRAM
 SCALE: NONE
 DRAWN BY: [Symbol] LT-21

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

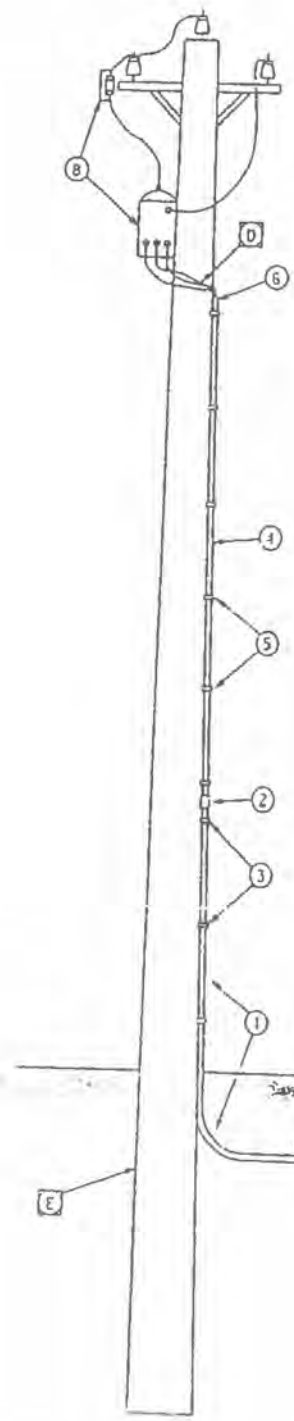
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PLOT SCALE = 5/8"=1'-0"	DRAWN - SR	REVISED -
PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 21 (MILWAUKEE AVE.) - WASHINGTON STREET TO IL ROUTE 120
 CONTROLLER "LC" AND "LF" WIRING DIAGRAM
 SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33U
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
			531
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



CONTRACTOR SHALL FURNISH AND INSTALL

- A CONTROL CABINET - INCLUDING FOUNDATION AND METER CABINET WITH CONNECTION DEVICES, WIRES AND FITTINGS.
- B CONDUIT IN TRENCH - 4" DIA.
- C CONDUIT PUSHED - 4" DIA., IF REQUIRED.
- D ELECTRIC CABLE - CABLES FROM INSIDE THE CABINET TO TOP OF STEEL CONDUIT AND ENOUGH CABLE FOR CONNECTION TO THE TRANSFORMER.
- E SERVICE POLE INSTALLATION.
 - 1 CONDUIT - 4" DIA., ONE 10' SECTION AND ONE 90° ELBOW.
 - 2 OUTDOOR ADAPTER COUPLING FOR METALLIC TO NON-METALLIC CONDUIT.
 - 3 GALVANIZED CONDUIT STRAPS & LAG SCREWS.

CONTRACTOR SHALL FURNISH AND COMED SHALL INSTALL (FREE OF CHARGE); SERVICE POLE INSTALLATION

- 4 4" DIA. NON-METALLIC, RIGID CONDUIT, APPROX. 17' LONG.
- 5 GALVANIZED CONDUIT STRAPS & LAG SCREWS.
- 6 WEATHERPROOF SERVICE HEAD.

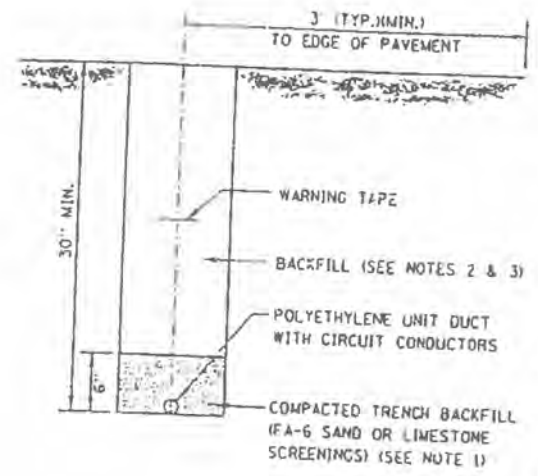
COMED SHALL FURNISH AND INSTALL (FREE OF CHARGE)

- 7 METER ON CONTROL CABINET AS PART OF SERVICE POLE INSTALLATION.
- 8 SERVICE POLE INSTALLATION: TRANSFORMER, CUT-OUT SWITCH, LIGHTNING ARRESTER, GROUNDING EQUIPMENT, INSULATORS, WIRES, POLE, WAST ARM, HARDWARE AND ANY OTHER EQUIPMENT AND LABOR DEEMED NECESSARY.
- 9 ELECTRIC SERVICE CONNECTION: "ELECTRIC SERVICE CONNECTION" APPLIES TO THOSE FACILITIES REQUIRED IN ADDITION TO WHAT IS DETERMINED BY AGREEMENT WITH COMED TO BE A NORMAL INSTALLATION AND SUCH FACILITIES WILL BE PAID FOR AS "ELECTRICAL SERVICE CONNECTION" AS SPECIFIED IN THE SPECIAL PROVISIONS.

☐ - INDICATES PAY ITEM

NOTE: FOR PEDESTAL MOUNT CONTROLLER, ALL CONDUIT SIZES SHALL BE 2 1/2" DIA.

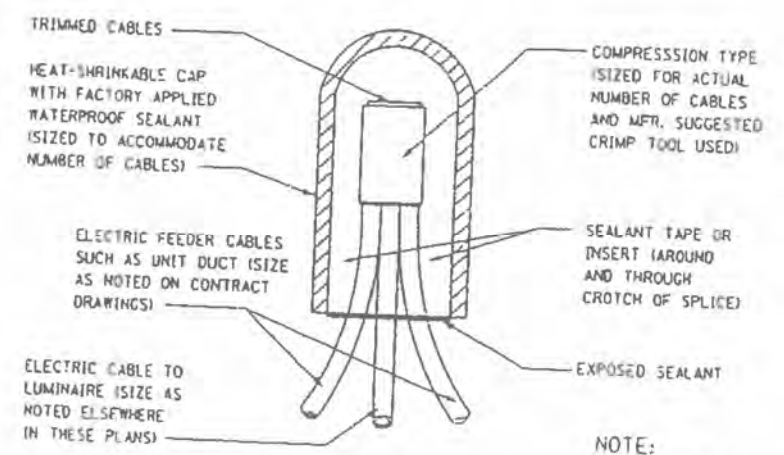
SERVICE POLE INSTALLATION (INTS.)



NOTES:

1. UNIT DUCT INSTALLED IN TRENCHES SHALL BE COVERED WITH A MINIMUM OF 6" OF COMPACTED FA-6 OR LIMESTONE SCREENINGS.
2. IN GRASSY AREAS, THE BACKFILL MAY BE COMPACTED EARTH.
3. TRENCHES WITHIN 2' OF PROPOSED OR EXISTING STREETS, DRIVEWAYS, OR SIDEWALKS SHALL BE BACKFILLED WITH COMPACTED FA-6 SAND OR LIMESTONE SCREENINGS.
4. WHERE 2 OR MORE UNIT DUCTS RUN ADJACENT TO EACH OTHER, THEY SHALL BE PLACED IN A COMMON TRENCH SO AS NOT TO CROSS EACH OTHER.
5. 6" WIDE REINFORCED METALLIC WARNING TAPE, RED WITH BLACK LETTERING TO READ "CAUTION-ELECTRICAL LINE BURIED BELOW". WARNING TAPE TO BE PLACED 1' MINIMUM TO 2' MAXIMUM BELOW FINISHED GRADE.
6. ALL GRASSY AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 4" OF TOPSOIL AND SOD.

UNITDUCT TRENCH



NOTE:

THE NUMBER OF CABLES IN SPLICE MAY VARY

SPLICING ELECTRIC CABLES BASIC MATERIALS & METHODS

BRIDGEMAN ELECTRIC, INC.
 25072 N. Bradley Road
 Caryville, IL 60048-9504
 Phone: 847-680-5200

SECOND DRAWINGS

Date: 3-7-06
 Initials: [Signature]

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MISCELLANEOUS DETAILS

LT-22

MODEL NAME: D:\PROJECTS\62P09\BDR\22.dgn

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME = mdelrche	DESIGNED - BL	REVISED - 10/30/2023
PLOT SCALE = 1/8"=1'-0"	DRAWN - SR	REVISED -
PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

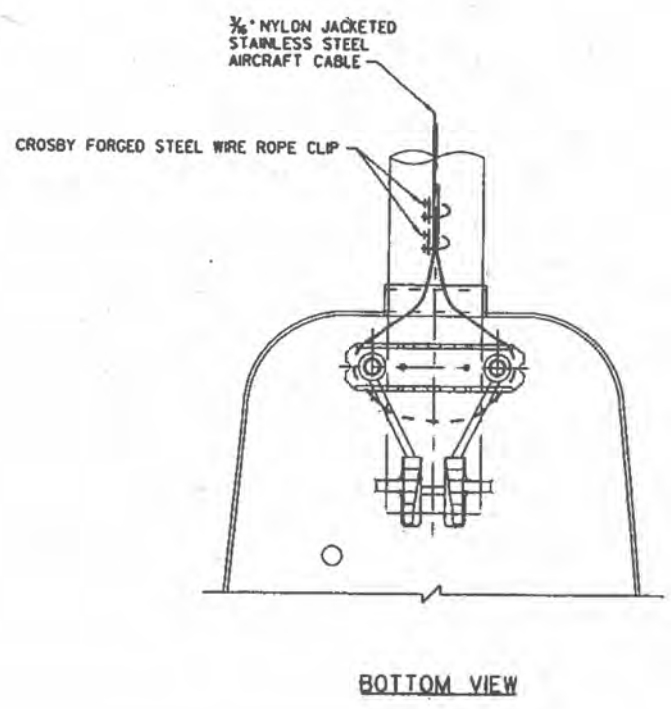
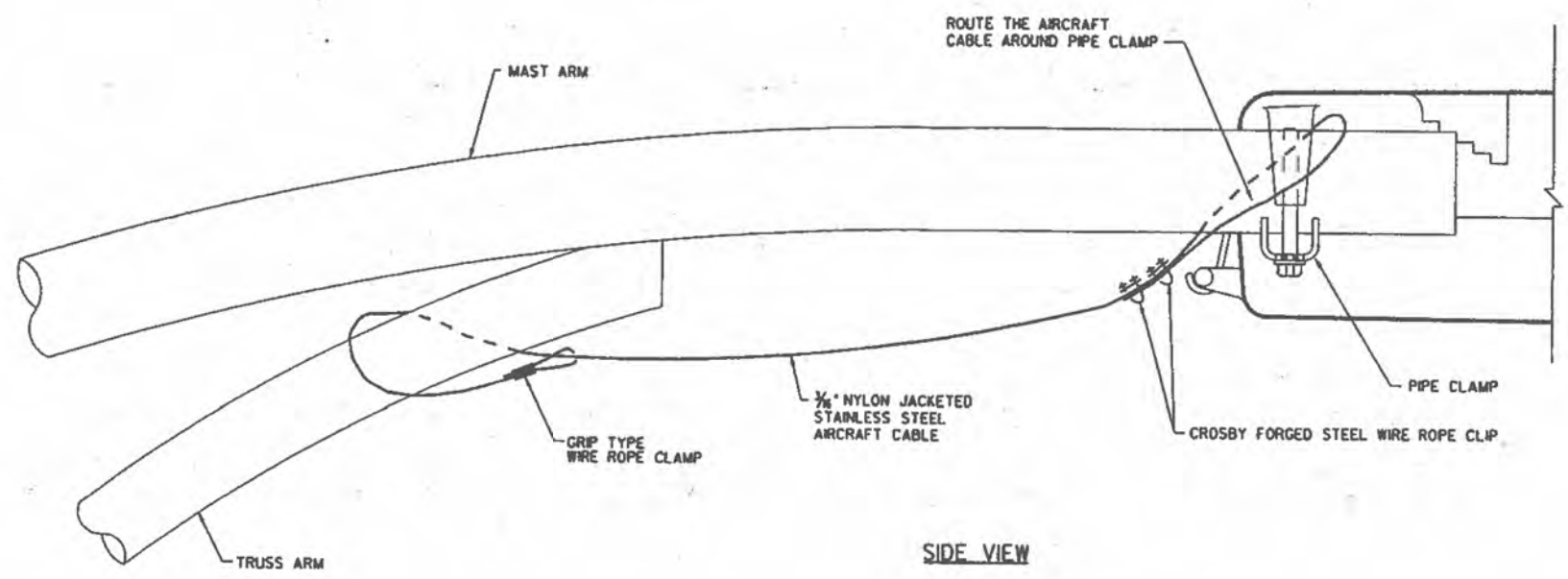
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33V
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			53	283
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



NOTES:

1. THE LUMINAIRE SAFETY CABLE ASSEMBLY SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, AND SHALL BE INCIDENTAL TO THE CONTRACT.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 3/8" NYLON JACKETED STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 2000 LBS. MIN.

E-37

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SLIPFITTER LUMINAIRE KEEPER
PHYSICAL INSTALLATION DRAWING
AND DETAILS

SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY JRN

LT-23

MODEL: I:\PROJECTS\622009\Bdr\LT-23.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeitche	DESIGNED - BL	REVISED - 10/30/2023
PLOT SCALE = \$SCALE\$	DRAWN - SR	REVISED -
PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

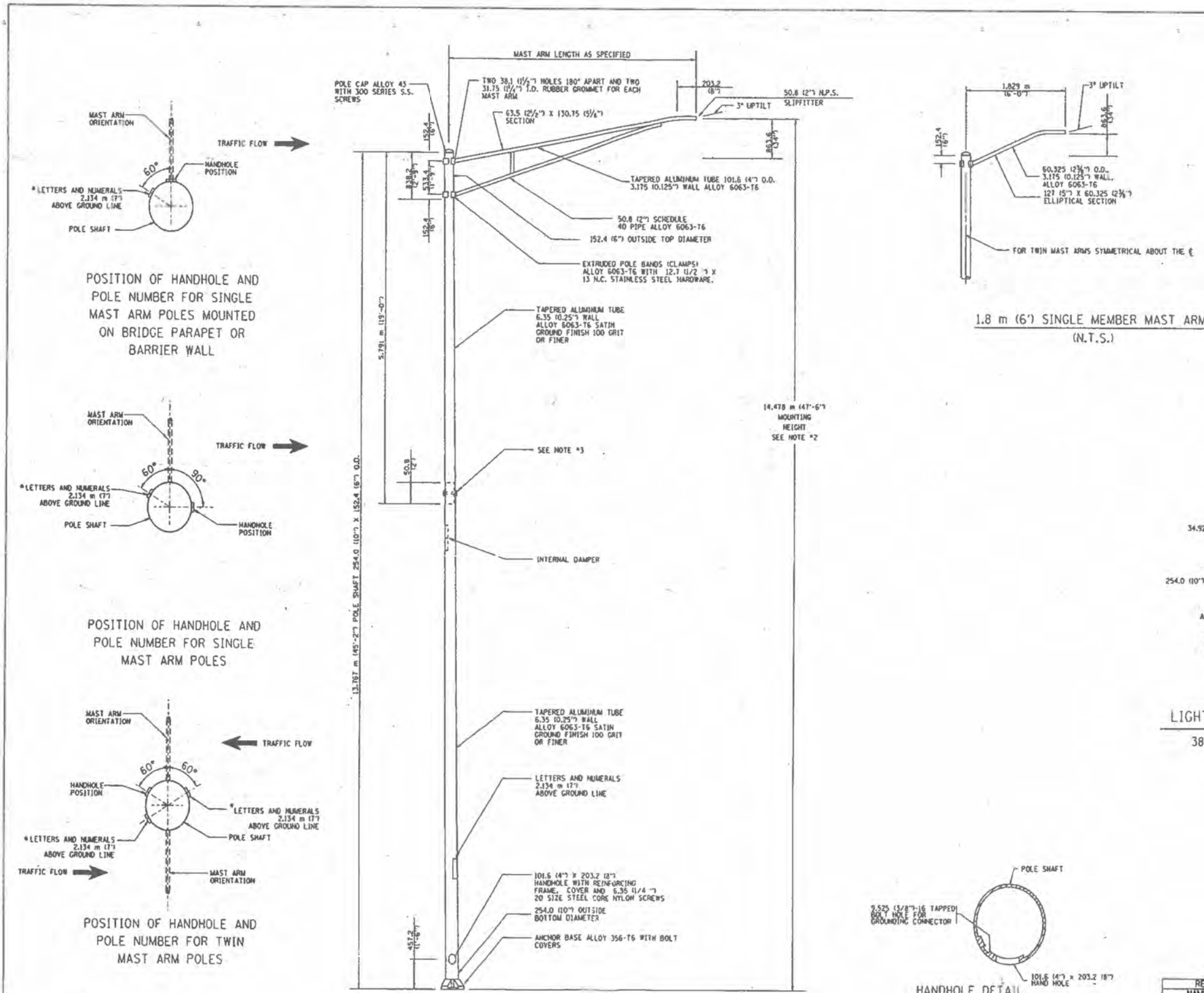
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLIPFITTER LUMINAIRE KEEPER
PHYSICAL INSTALLATION DRAWING AND DETAILS

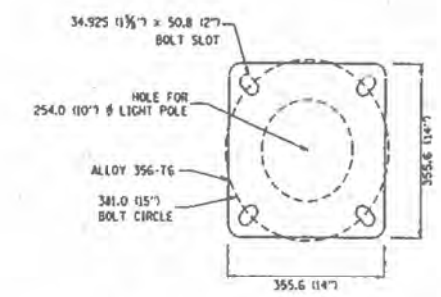
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33W
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

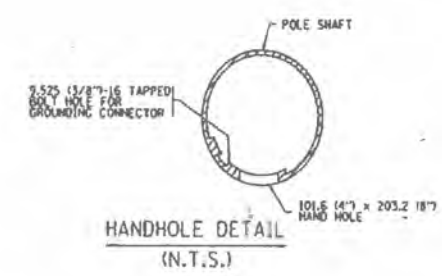
F.A. P. NO.	SECTION	COUNTY	SHEET NO.
			531 24
STA.	TO STA.		
FILE NO. AND NO. 1	SECTION	FILE NO. PROJECT	



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURDOLY #2C25, T&B SP4DX OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL
381.0 (15 INCH) BOLT CIRCLE



REVISIONS	
NAME	DATE
R. TOMSONS	9-6-00

E-400

ILLINOIS DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE
14.478 m (47'-6")
MOUNTING HEIGHT

SCALE: NONE DATE: 03/05/01

DRAWN BY: R. TOMSONS CHECKED BY: []

MODEL: ILMODELNAME: FILE NAME: D:\2009\Bdr\24.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeitche	DESIGNED - BL	REVISED - 10/30/2023
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PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

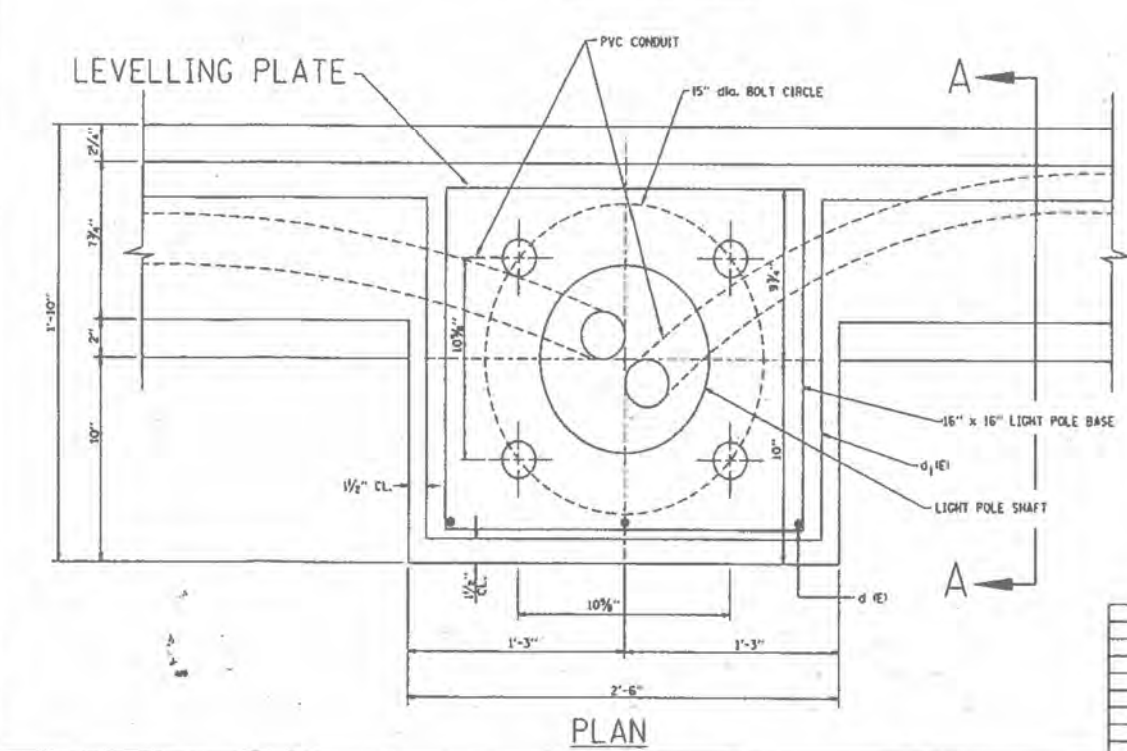
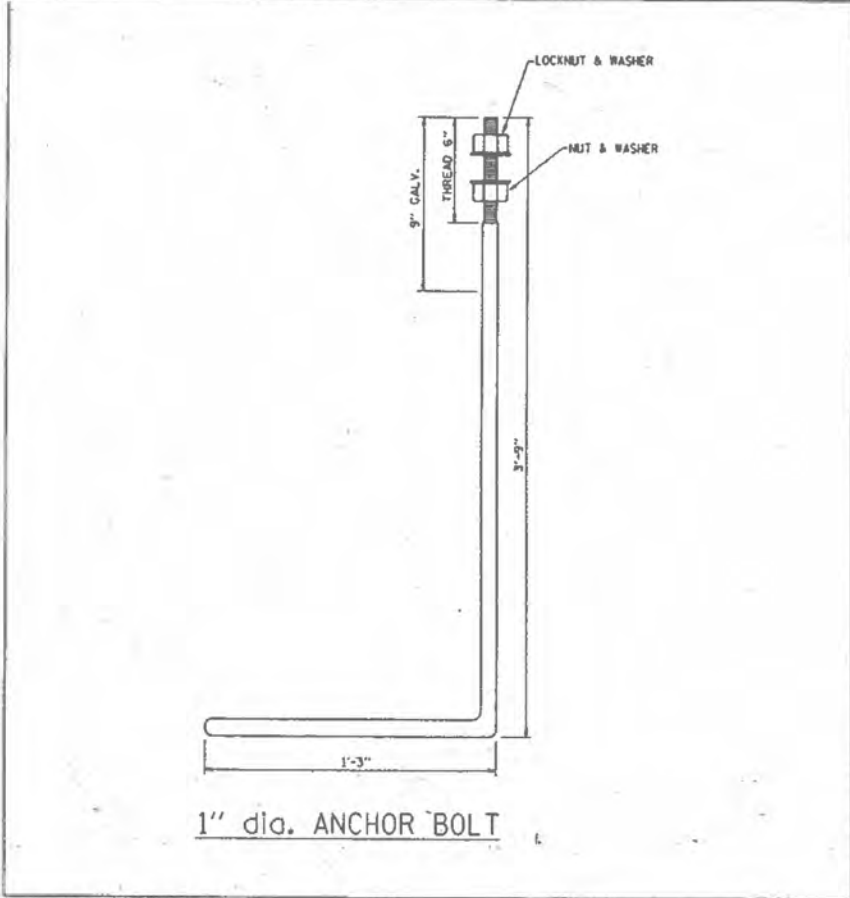
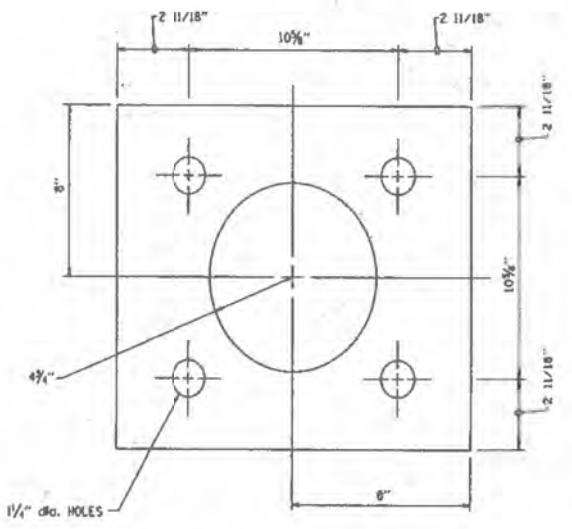
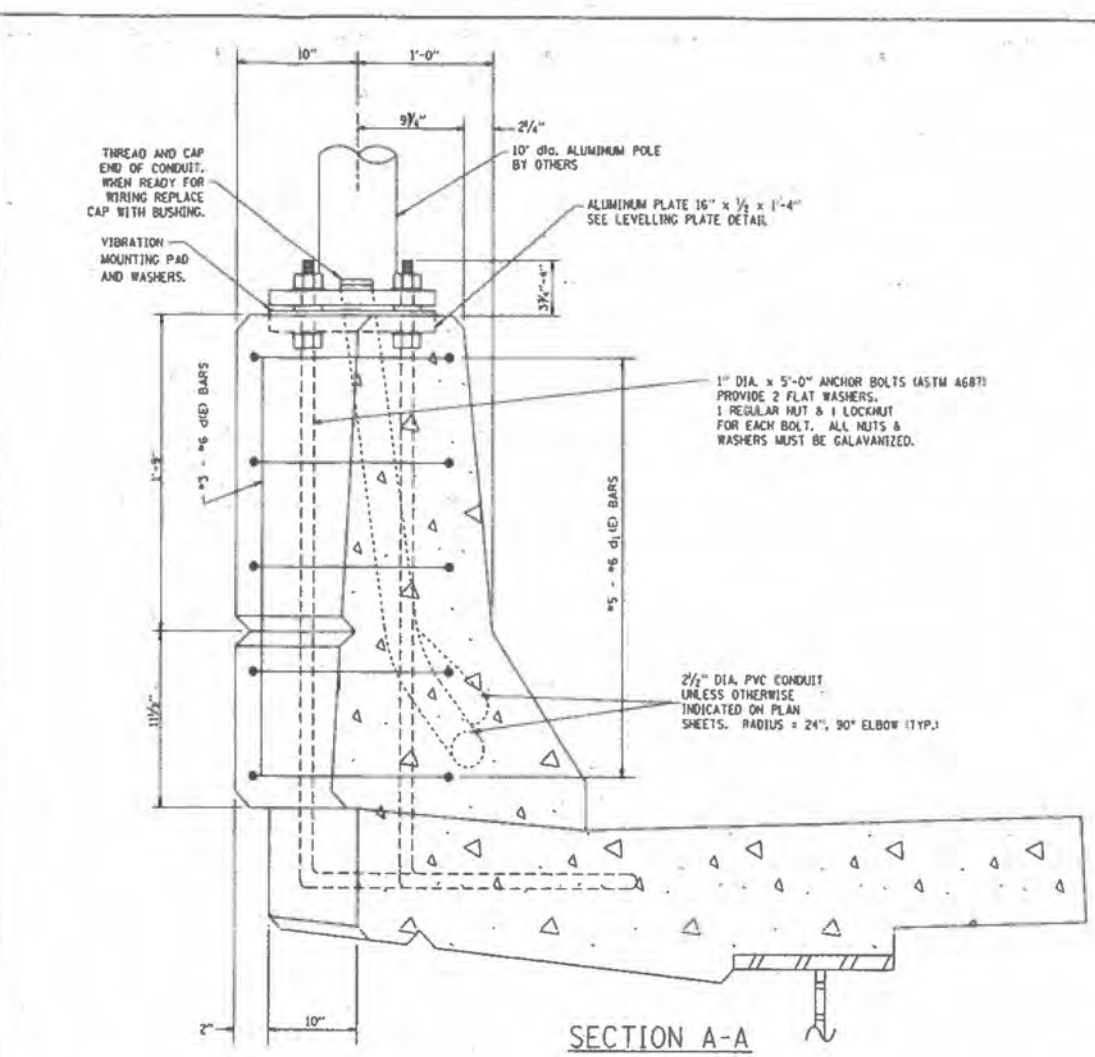
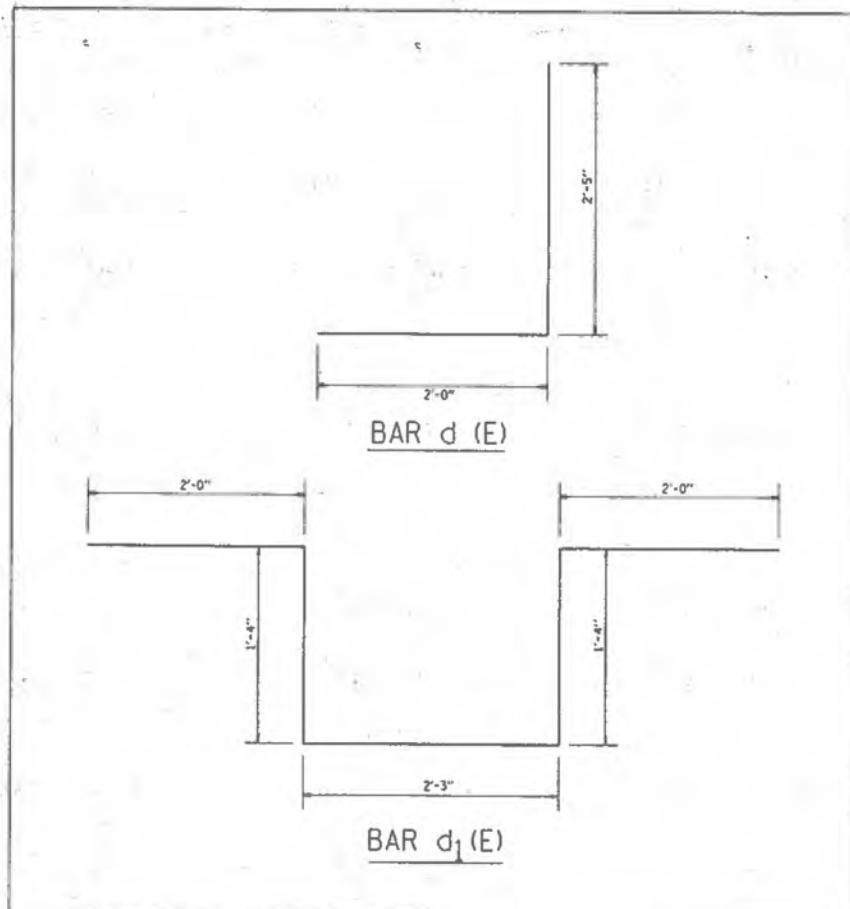
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALUMINUM LIGHT POLE 14.478 m (47'-6")
MOUNTING HEIGHT

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

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33X
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

A.A. NO.	SECTION	COUNTY	TRA. DIST.	SHEET NO.
	C		581	285
STA.	TO STA.			
FILE NO. OR DIST. NO.	ALIAS	FILE NO. PROJECT		



- NOTES**
1. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
 2. THE COST OF ANCHOR BOLTS, CONDUIT, LEVELLING PLATE AND FOUNDATION IS INCIDENTAL TO THE BRIDGE STRUCTURE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE MOUNTED ON CONCRETE PARAPET

SCALE: NONE

DATE 03/05/01

DRAWN BY

CHECKED BY

BE-14

Mon Mar 5 13:12:25 2001
 \\sccadd1\projects\diststd\bel4.dgn LV:35
 3/5/01

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

USER NAME	DESIGNED - BL	REVISED - 10/30/2023
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PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -
PLOT DATE = 10/12/2023	DATE - 09-29-23	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LIGHT POLE MOUNTED ON CONCRETE PARAPET

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

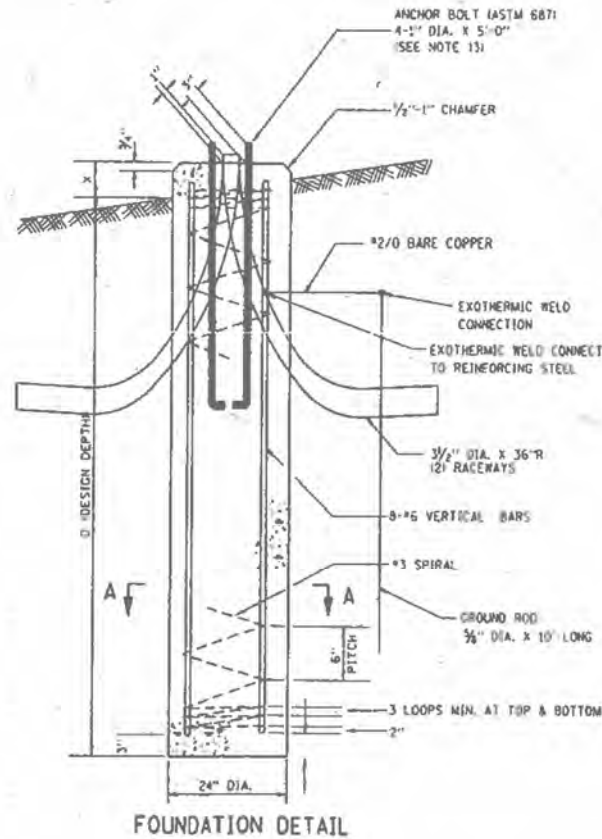
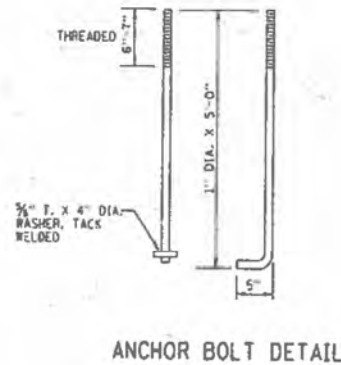
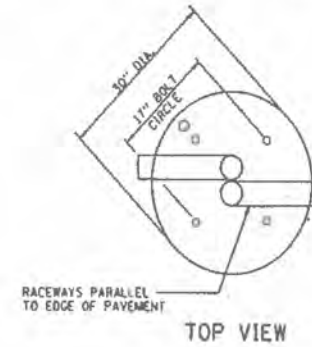
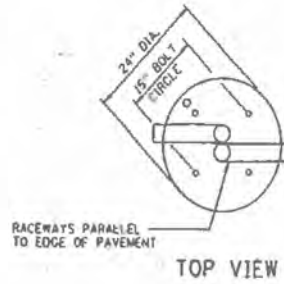
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33Y
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

MODEL: 10/01/2001
 FILE NAME: 03/05/01 Bdr 25.dgn

FOUNDATION DESIGN TABLE

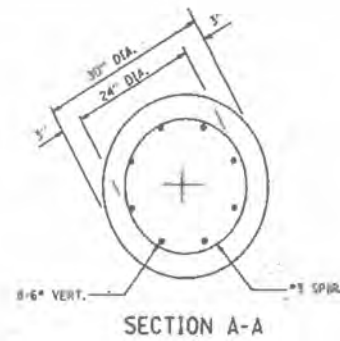
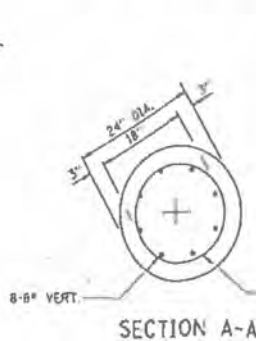
TYPE OF SOIL	DESIGN DEPTH OF FOUNDN		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0"	15'-0"	8-#6 X 12'-6"	*3 X 122'	8-#6X14X3'	*3 X 141'
MEDIUM CLAY	9'-6"	10'-9"	8-#6 X 9'-0"	*3 X 90'	8-#6 X 10'-0"	*3 X 100'
STIFF CLAY	7'-0"	8'-0"	8-#6 X 6'-6"	*3 X 66'	8-#6 X 7'-6"	*3 X 76'
LOOSE SAND	9'-0"	10'-0"	8-#6 X 8'-6"	*3 X 85'	8-#6 X 9'-6"	*3 X 94'
MEDIUM SAND	8'-3"	9'-0"	8-#6 X 8'-0"	*3 X 78'	8-#6 X 8'-6"	*3 X 85'
DENSE SAND	7'-9"	9'-0"	8-#6 X 7'-6"	*3 X 73'	8-#6 X 8'-6"	*3 X 85'
ROCK OR SOLIDIFIED SLAG	5'-0"	5'-0"	NONE	NONE	NONE	NONE

F.A.P. NO.	SECTION	COUNTY	SHEET NO.
			531 28
STA.	TO STA.		
FILE NO. (SEE 48.1)	SCALE	JOB NO. (PROJECT)	



NOTES

1. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
2. THE DESIGN DEPTH "D" OF FOUNDATION SHALL BE INCREASED BY VALUE OF X ACCORDING TO FIELD CONDITIONS.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" OR 30" IN DIAMETER.
4. THE CONTRACTOR SHALL USE #3 SPIRAL AT 6" PITCH OR AT HIS OPTION MAY SUBSTITUTE #3 TIES AT 12" O/C.
5. THE ANCHOR SHALL BE A TACK WELDED TYPE BOLT OR HOOK TYPE BOLT. COLD BENDING OF THE HOOK BOLT WILL NOT BE ALLOWED.
6. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE.
7. THE ENTIRE LENGTH OF THE ANCHOR BOLTS AS WELL AS THE NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION A 153.
8. CONCRETE SHALL BE CLASS "X". CONCRETE FOUNDATION MUST BE CURED FOR 100 TEN DAYS BEFORE THE LIGHT STANDARD IS ERECTED.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.
10. ANCHOR BOLTS SHALL PROJECT 3" ABOVE THE TOP OF THE FOUNDATION.
11. RACEWAYS SHALL PROJECT 1" ABOVE THE TOP OF THE FOUNDATION.
12. THE CONTRACTOR SHALL COORDINATE THE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
13. A MINIMUM OF 3" OF THE THREADING ON THE ANCHOR BOLTS SHALL REMAIN BELOW THE TOP OF THE FOUNDATION.



REVISIONS	
NAME	DATE
D. SIMON	4/93
D. DREW	06/15/95

ILLINOIS DEPARTMENT OF TRANSPORTATION

24" & 30" DIAMETER LIGHT POLE FOUNDATION

LT-26

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = mdeitche	DESIGNED - BL	REVISED - 10/30/2023
PLOT SCALE = \$SCALE\$	DRAWN - SR	REVISED -
PLOT DATE = 10/12/2023	CHECKED - MH	REVISED -
	DATE - 09-29-23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

24" & 30" DIAMETER LIGHT POLE FOUNDATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0333	2021-071-BDR	LAKE	131	33Z
CONTRACT NO. 62P09				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolt 3/4" in. diameter, holes 13/16" in. diameter, unless otherwise noted.
- All new weldment plate assemblies shall be AASHTO M270 Grade 50.
- Calculated weight of Weldment Plate Assemblies = 5,910 lb (Grade 50)
Calculated weight of Structural Steel Repairs = 600 lb (Grade 50)
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications.
- As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- All (embedded and separate) weldment assembly, bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
- H.S. bolts in bearing assembly shall be galvanized according to AASHTO N298 Class 50.
- A film forming Concrete Sealer shall be applied to the designated areas of the abutment seats and top surfaces of the piers.
- The existing permanent protective shielding over the pathway between Pier 2 and east Abutment shall be removed. The cost of removal of the existing protective shielding shall be included with the cost of the removal of the existing concrete decks.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.
- The new protective shielding in the area over the trail (near east abutment) shall remain in place for the duration of the project or at the minimum until the new cast-in-place concrete deck is fully cured.

INDEX OF SHEETS

- SD-01 GENERAL PLAN AND ELEVATION
- SD-02 BILL OF MATERIAL AND GENERAL NOTES
- SD-03 DECK ELEVATIONS 1
- SD-04 DECK ELEVATIONS 2
- SD-05 DECK ELEVATIONS 3
- SD-06 DECK ELEVATIONS 4
- SD-07 APPROACH SLAB ELEVATIONS - EASTBOUND STRUCTURE
- SD-08 APPROACH SLAB ELEVATIONS - WESTBOUND STRUCTURE
- SD-09 SUPERSTRUCTURE - DECK - EASTBOUND STRUCTURE
- SD-10 SUPERSTRUCTURE DETAILS - EASTBOUND STRUCTURE
- SD-11 END DIAPHRAGM - EASTBOUND STRUCTURE
- SD-12 SUPERSTRUCTURE - DECK - WESTBOUND STRUCTURE
- SD-13 SUPERSTRUCTURE DETAILS - WESTBOUND STRUCTURE
- SD-14 END DIAPHRAGM - WESTBOUND STRUCTURE
- SD-15 APPROACH SLAB - EASTBOUND STRUCTURE
- SD-16 APPROACH SLAB DETAILS - EASTBOUND STRUCTURE
- SD-17 APPROACH SLAB - WESTBOUND STRUCTURE
- SD-18 APPROACH SLAB DETAILS - WESTBOUND STRUCTURE
- SD-19 FRAMING PLAN AND STEEL REPAIRS
- SD-20 INTERIOR GIRDER MOMENTS AND REACTIONS
- SD-21 STEEL REPAIR DETAILS
- SD-22 BEARING DETAILS I - EASTBOUND STRUCTURE
- SD-23 BEARING DETAILS II - EASTBOUND STRUCTURE
- SD-24 BEARING DETAILS I - WESTBOUND STRUCTURE
- SD-25 BEARING DETAILS II - WESTBOUND STRUCTURE
- SD-26 EAST ABUTMENT REMOVAL DETAILS - EASTBOUND STRUCTURE
- SD-27 WEST ABUTMENT REMOVAL DETAILS - EASTBOUND STRUCTURE
- SD-28 EAST ABUTMENT REMOVAL DETAILS - WESTBOUND STRUCTURE
- SD-29 WEST ABUTMENT REMOVAL DETAILS - WESTBOUND STRUCTURE
- SD-30 PIER REPAIRS - EASTBOUND STRUCTURE
- SD-31 PIER REPAIRS - WESTBOUND STRUCTURE
- SD-32 SLOPE WALL REPAIR - EAST ABUTMENT
- SD-33 SLOPE WALL REPAIR - WEST ABUTMENT
- SD-34 DRAINAGE SCUPPER, DS-11
- SD-35 BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
- SD-36 CONCRETE PARAPET SLIPFORMING

ABBREVIATIONS

abut.	abutment	NE	north east
B.F.	back face	NW	north west
B	baseline	No.	number
brg.	bearing	N.S.	near side
CL	centerline	O.F.	outside face
cl.	clearance	PJF	preformed joint filler
conc.	concrete	PJS	preformed joint sealer
cts.	centers	PG	profile grade
const.	construction	prop.	proposed
E.B.	expansion bearings	req'd	required
EA	east abutment	rte.	route
EB	east bound	SB	south bound
E.F.	each face	SE	south east
elev.	elevation	SW	south west
exist.	existing	sect.	section
F.B.	fixed bearings	spa.	spaces
F.F.	front face	spec.	specification
F.S.	far side	sta.	station
H.S.	high strength	std.	standard
I.F.	inside face	struct.	structure
jt.	joint	typ.	typical
long.	longitudinal	UNO	unless noted otherwise
max.	maximum	WA	west abutment
min.	minimum	WB	west bound
NB	north bound	WW	wingwall

NAME PLATES

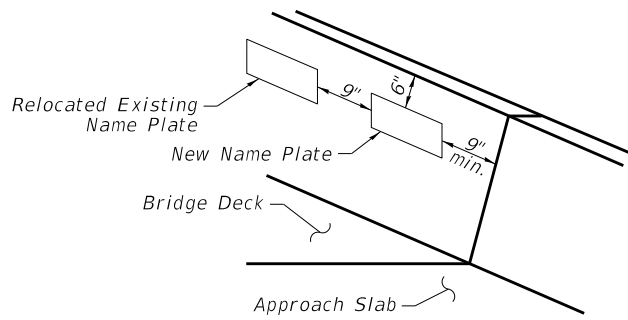
See Std. 515001

Note: Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with "Name Plates."

TOTAL BILL OF MATERIAL

DESCRIPTION	Unit	Super	Sub	Total
POROUS GRANULAR BACKFILL	CU YD	-	17	17
REMOVAL OF EXISTING CONCRETE DECK NO. 1	EACH	1	-	1
REMOVAL OF EXISTING CONCRETE DECK NO. 2	EACH	1	-	1
CONCRETE REMOVAL	CU YD	-	46.6	46.6
BRIDGE RAIL REMOVAL	FOOT	1,416	-	1,416
SLOPE WALL REMOVAL	SQ YD	-	258	258
PROTECTIVE SHIELD	SQ YD	-	1,172	1,172
STRUCTURE EXCAVATION	CU YD	-	454	454
CONCRETE STRUCTURES	CU YD	-	57.9	57.9
CONCRETE SUPERSTRUCTURE	CU YD	551.7	-	551.7
PROTECTIVE COAT	SQ YD	2,278	-	2,278
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	225.0	-	225.0
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5,910	-	5,910
STUD SHEAR CONNECTORS	EACH	5,712	-	5,712
REINFORCEMENT BARS, EPOXY COATED	POUND	232,240	-	232,240
BAR SPLICERS	EACH	166	-	166
SLOPE WALL 6 INCH	SQ YD	258	-	258
NAME PLATES	EACH	2	-	2
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	28	-	28
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	14	-	14
ANCHOR BOLTS, 1"	EACH	56	-	56
ANCHOR BOLTS, 1 1/4"	EACH	28	-	28
GRANULAR BACKFILL FOR STRUCTURES	CU YD	147	-	147
CONCRETE SEALER	SQ FT	798	-	798
GEOCOMPOSITE WALL DRAIN	SQ YD	-	64	64
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	-	334	334
REMOVAL OF ASBESTOS CEMENT CONDUIT	FOOT	1,436	-	1,436
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,266	-	1,266
JACK AND REMOVE EXISTING BEARINGS	EACH	42	-	42
STRUCTURAL STEEL REMOVAL	POUND	7,150	-	7,150
STRUCTURAL STEEL REPAIR	POUND	600	-	600
APPROACH SLAB REMOVAL	SQ YD	366	-	366
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	105	-	105
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	2	-	2
DRAINAGE SCUPPERS, DS-11	EACH	8	-	8
DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,796	-	1,796

Note: Pay items above noted as No. or Location 1 and 2 apply to SN 049-0047 (WB) and SN 049-0046 (EB), respectively.



PARAPET
(Typical)

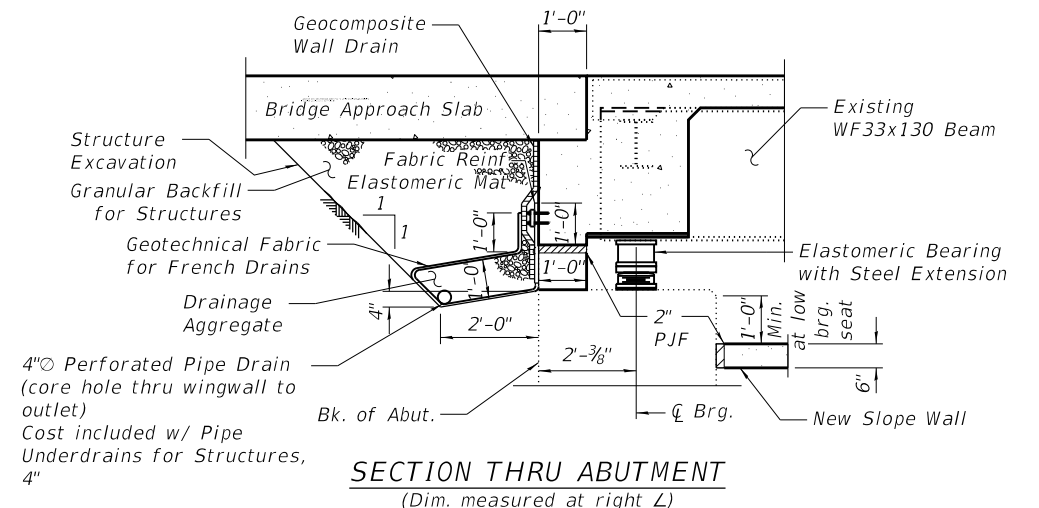
STATION 136+55.75
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 333 SEC.2021-071-BDR
LOADING HS20-44
STR. NO. 049-0047

STATION 636+33.66
RE-BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 333 SEC.2021-071-BDR
LOADING HS20-44
STR. NO. 049-0046

NAME PLATES

See Std. 515001

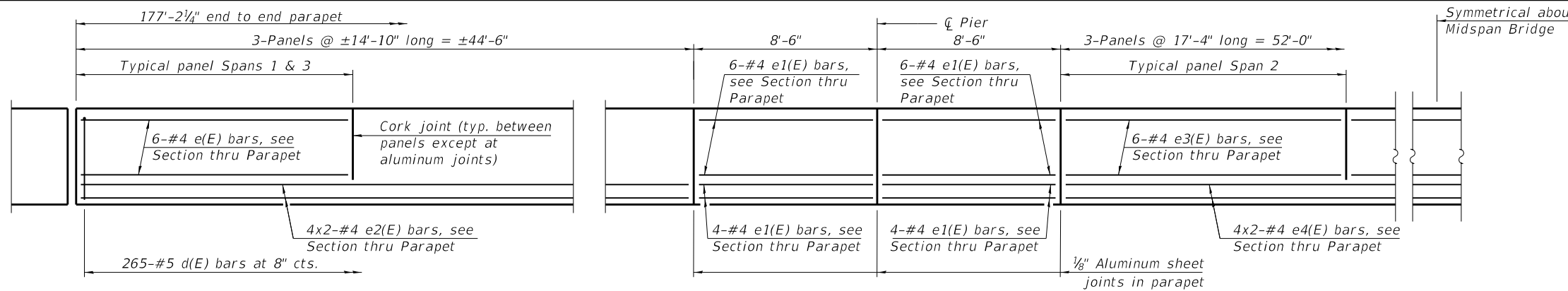
Note: Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with "Name Plates."



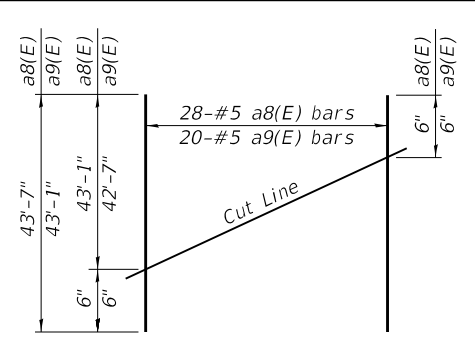
SECTION THRU ABUTMENT
(Dim. measured at right L)

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10/18/2023 4:43:33 PM

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	PLOT SCALE =	DRAWN - AT/PS	REVISED -			CONTRACT NO. 62P09		ILLINOIS		FED. AID PROJECT
PLOT DATE = 10/18/2023		CHECKED - AJN	REVISED -	SHEET 2 OF 36 SHEETS						



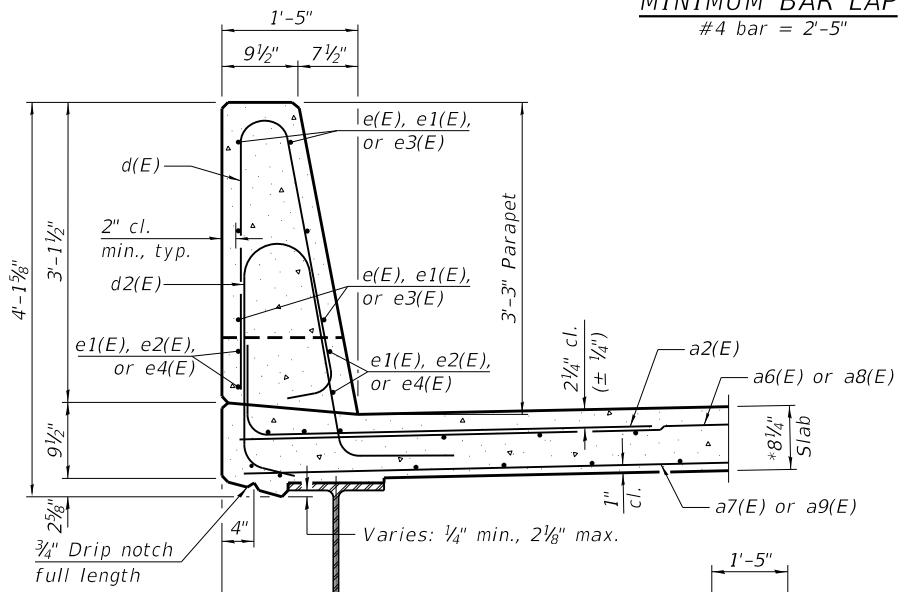
INSIDE ELEVATION OF PARAPET



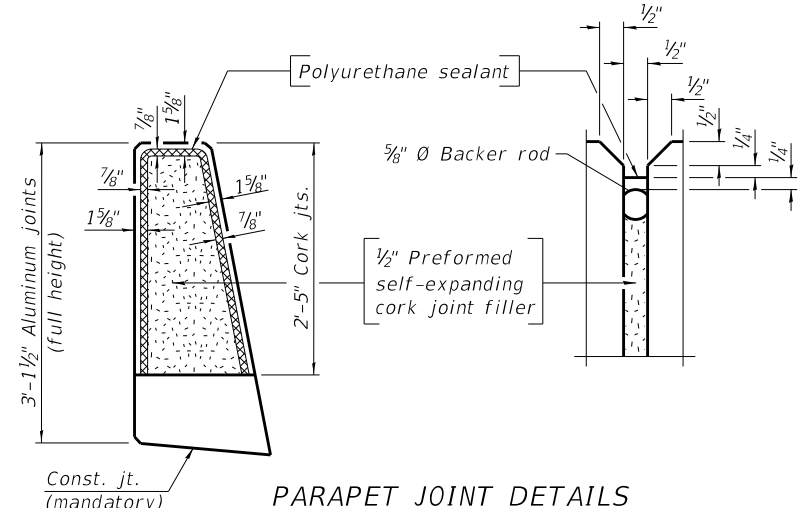
FIELD CUTTING DIAGRAM

Order a8(E) and a9(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

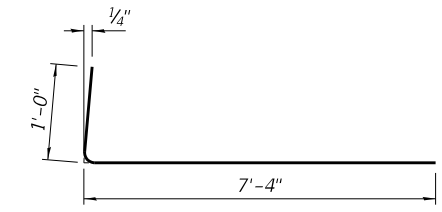
MINIMUM BAR LAP
#4 bar = 2'-5"



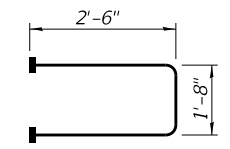
SECTION THRU PARAPET



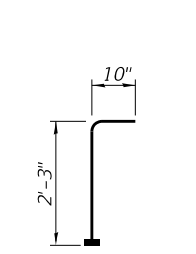
PARAPET JOINT DETAILS



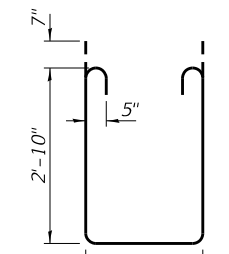
BAR a2(E)



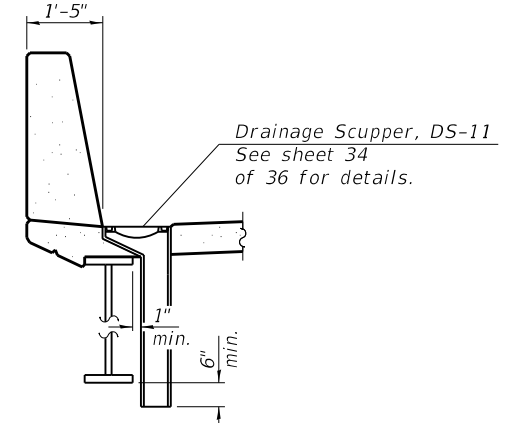
BAR s10(E)
(Headed)



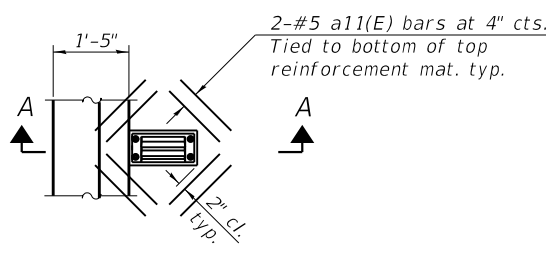
BAR v100(E)
(Headed)



BAR s11(E)

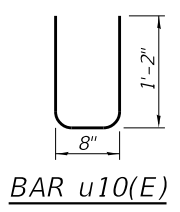


SECTION A-A

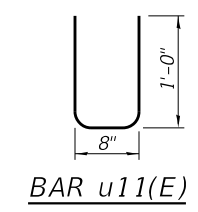


PLAN

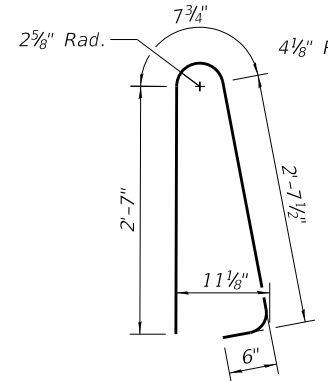
Note:
Cut longitudinal reinforcement to clear drainage scuppers.



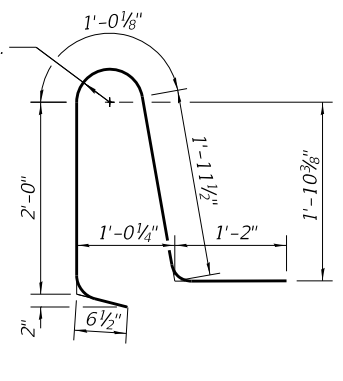
BAR u10(E)



BAR u11(E)



BAR d(E)



BAR d2(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	590	#6	8'-4"	U
a6(E)	552	#5	23'-11"	U
a7(E)	579	#5	17'-2"	U
a8(E)	28	#5	43'-7"	U
a9(E)	20	#5	43'-1"	U
a10(E)	8	#5	25'-3"	U
a11(E)	48	#5	1'-6"	U
b(E)	336	#5	28'-3"	U
b1(E)	168	#6	21'-1"	U
b2(E)	480	#5	25'-2"	U
d(E)	530	#5	6'-5"	U
d2(E)	530	#5	6'-8"	U
e(E)	72	#4	14'-6"	U
e1(E)	80	#4	8'-2"	U
e2(E)	32	#4	23'-6"	U
e3(E)	36	#4	17'-0"	U
e4(E)	16	#4	27'-0"	U
h1(E)	16	#5	25'-5"	U
m17(E)	8	#7	26'-0"	U
m18(E)	28	#6	5'-6"	U
m19(E)	8	#6	0'-10"	U
m20(E)	28	#5	5'-8"	U
m21(E)	8	#5	0'-9"	U
m22(E)	8	#6	25'-8"	U
m23(E)	8	#4	24'-10"	U
s10(E)	120	#5	6'-8"	U
s11(E)	120	#6	9'-1"	U
u10(E)	96	#4	3'-0"	U
u11(E)	96	#4	2'-8"	U
v100(E)	96	#5	3'-1"	U
Reinforcement Bars, Epoxy Coated		Lbs.		76,220
Concrete Superstructure		Cu. Yds.		287.2
Concrete Structures		Cu. Yds.		3.6

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

Notes:
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

MODEL: Default; FILE NAME: P:\040058-01-002 (ENG) - PTB_195-016 Phase II Var VanEngineering\W0 28 - 62P09 IL-120 at DPR\500 Drawings\502 CADD Sheets\0490046-62P09_Superstructure 2.dgn

Bowman 10 S. LaSalle Street, Suite 210 Chicago, Illinois 60606 312-474-5500 www.bowman.com	USER NAME = pskolba	DESIGNED - AT	REVISED - 10/30/2023 AJN
	PLOT SCALE =	CHECKED - AJN	REVISED -
	PLOT DATE = 10/18/2023	DRAWN - AT/PS	REVISED -
		CHECKED - AJN	REVISED -

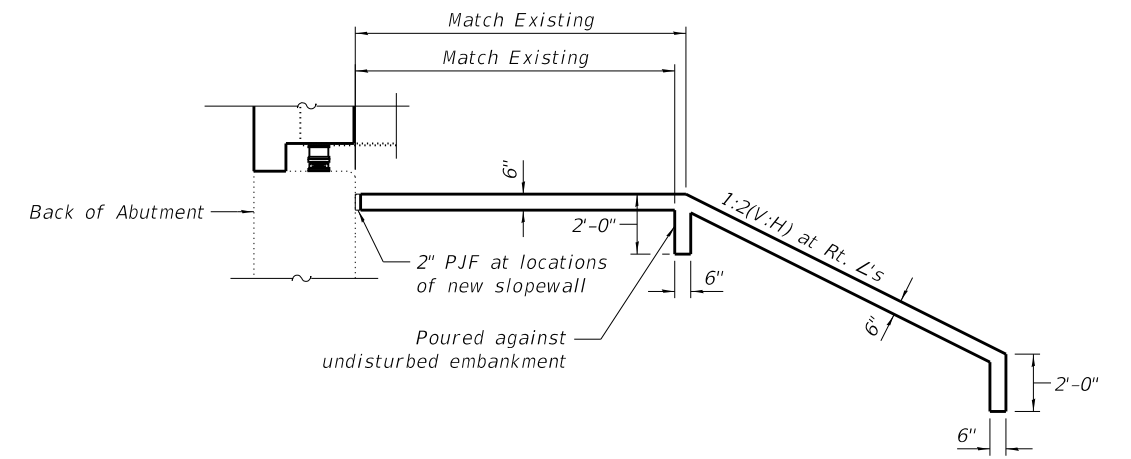
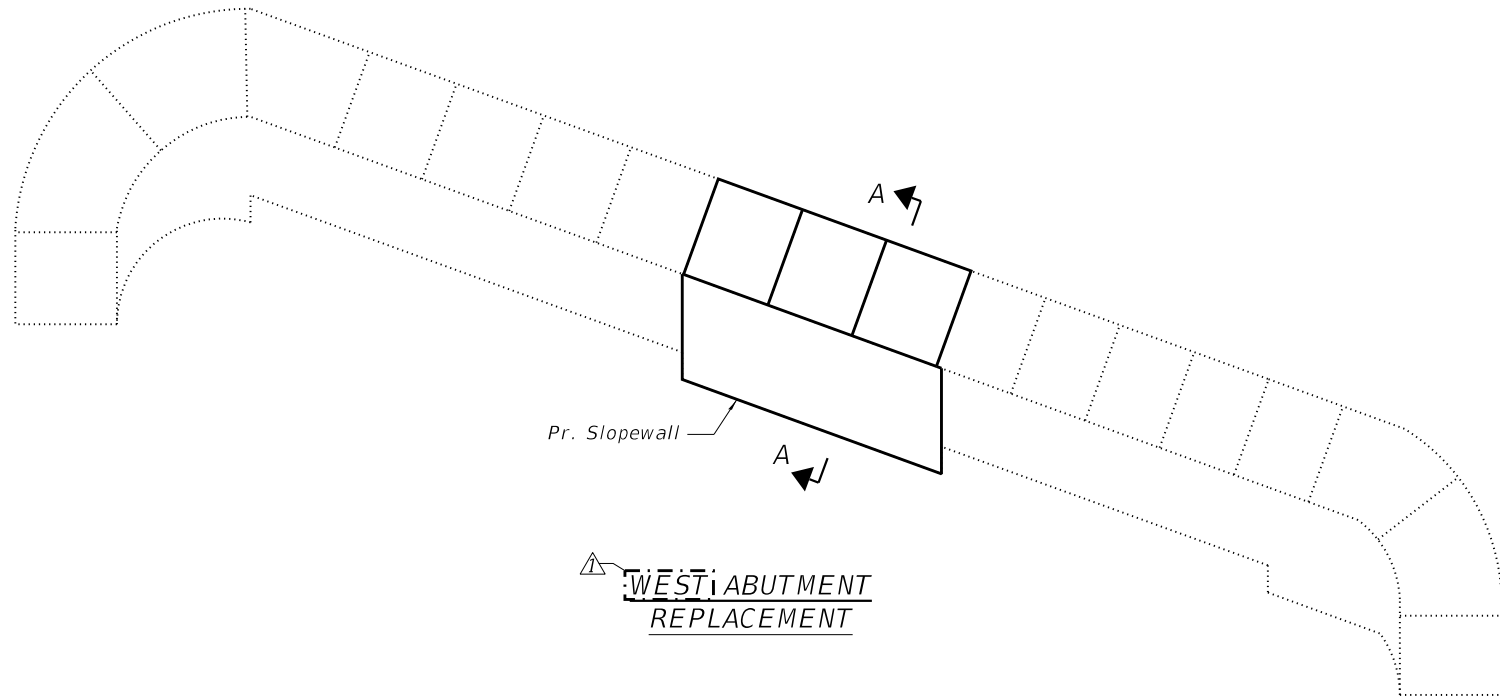
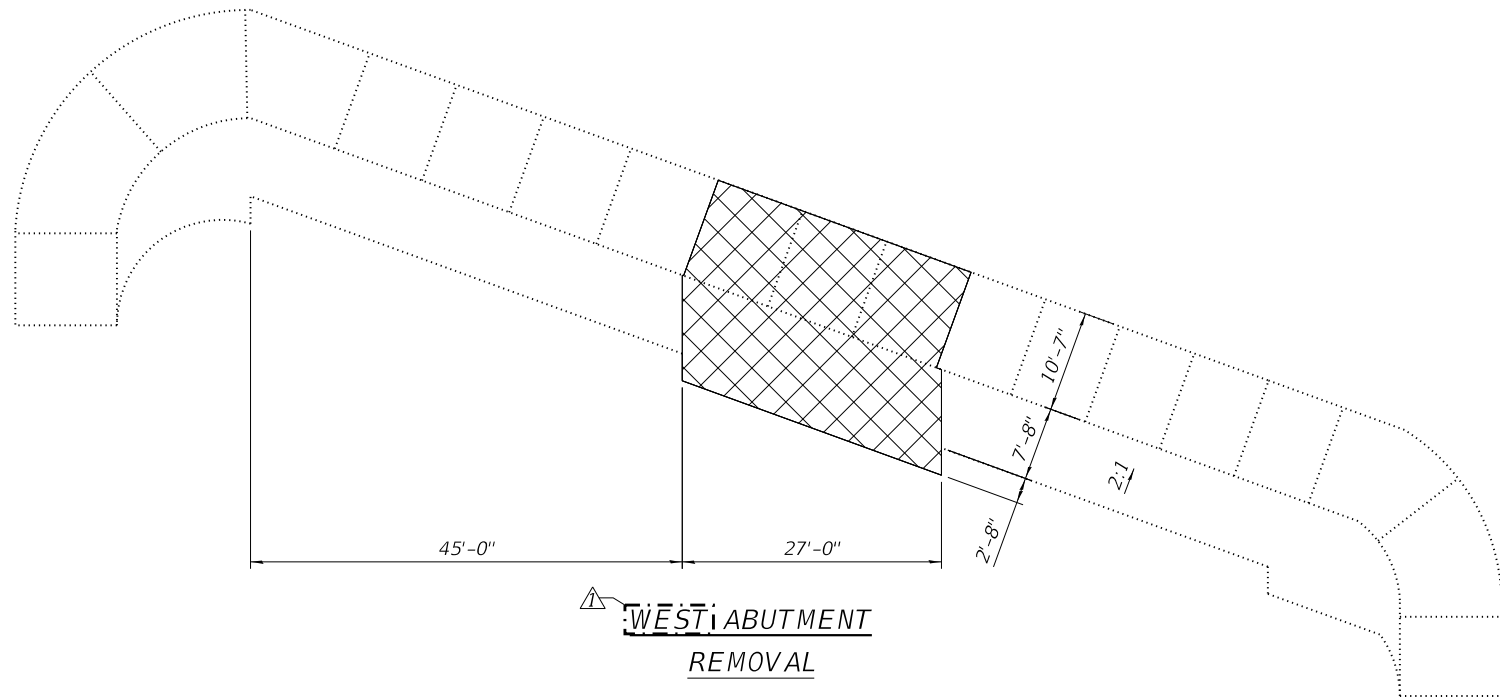
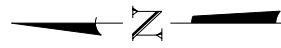
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS - EASTBOUND STRUCTURE
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)

SHEET 10 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	85
CONTRACT NO.			62P09	
ILLINOIS FED. AID PROJECT				

SD-10



LEGEND

- Concrete Removal

BILL OF MATERIAL

ITEM	UNIT	TOTAL
SLOPE WALL REMOVAL	SQ YD	70
SLOPE WALL 6 INCH	SQ YD	70

MODEL: Default
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Bowman <small>10 S. LaSalle Street, Suite 210 Chicago, Illinois 60606 312-474-0500 www.bowman.com</small>	USER NAME = pskolba	DESIGNED - AT	REVISED - 10/30/2023 AJN
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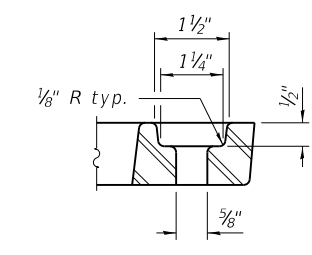
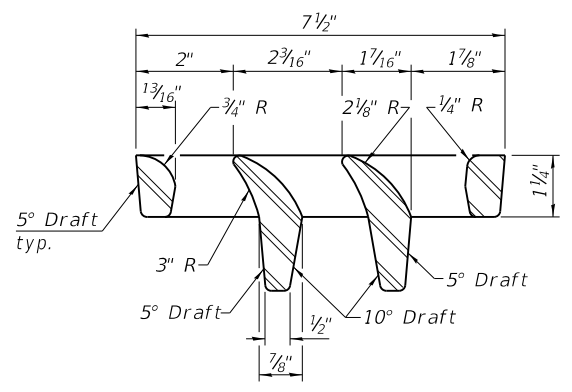
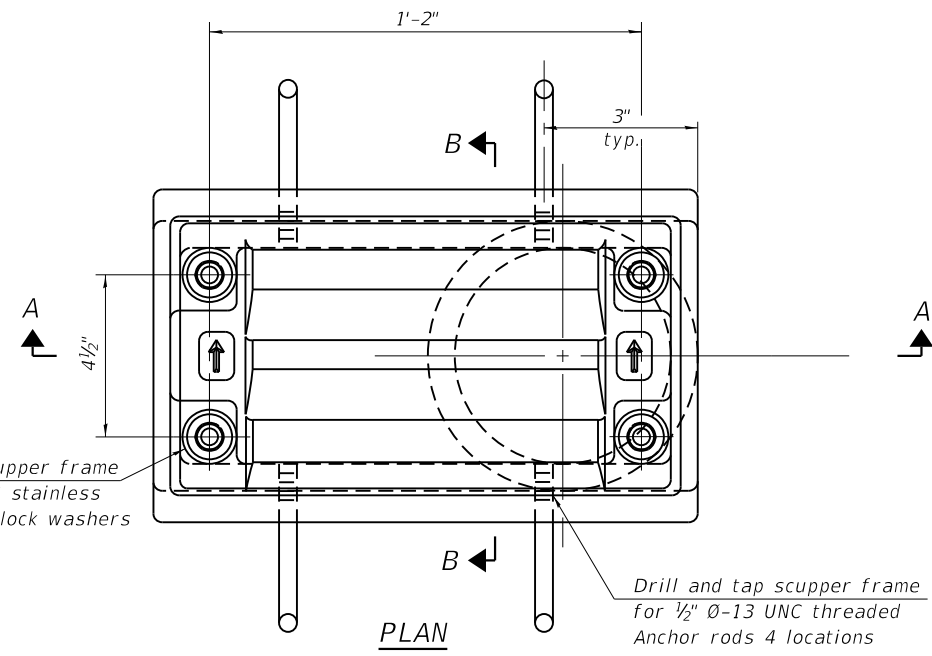
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SLOPE WALL REPAIR - WEST ABUTMENT
STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)**

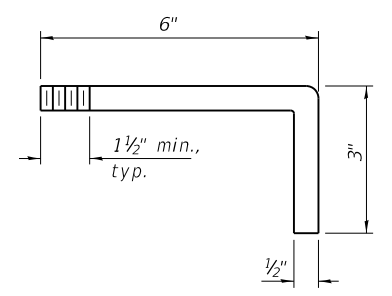
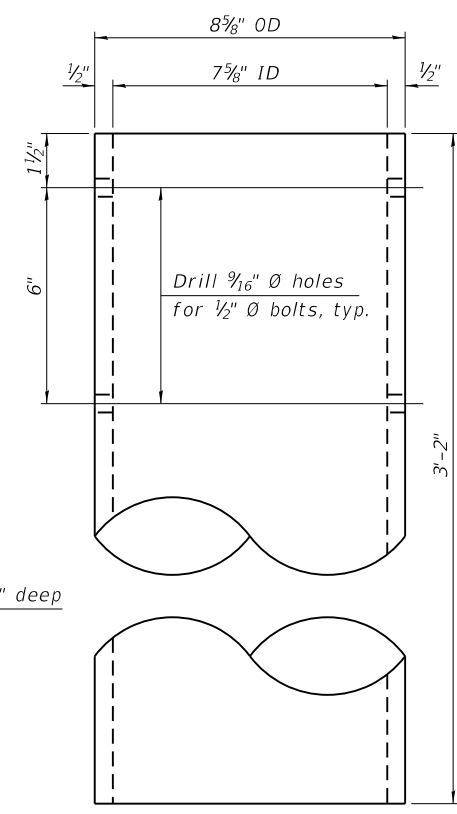
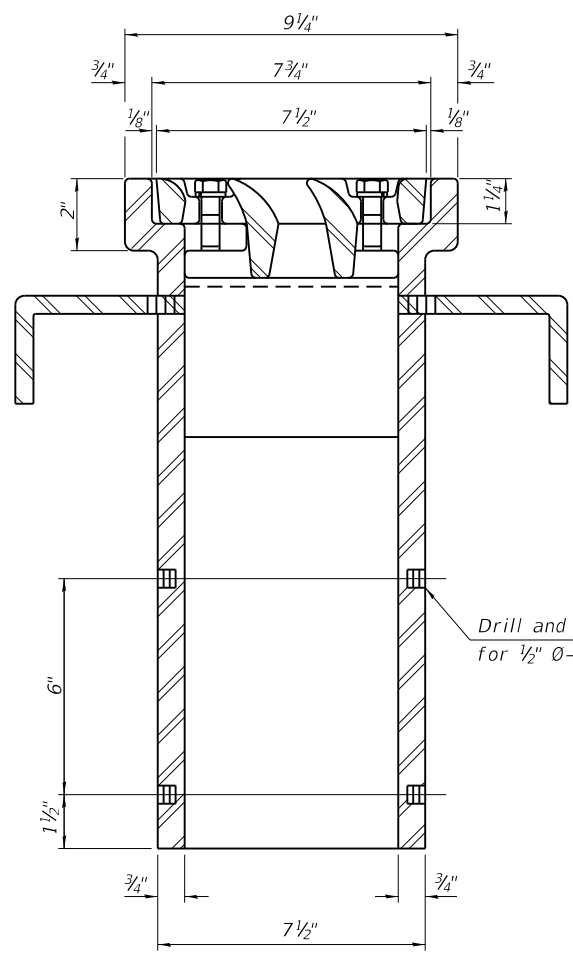
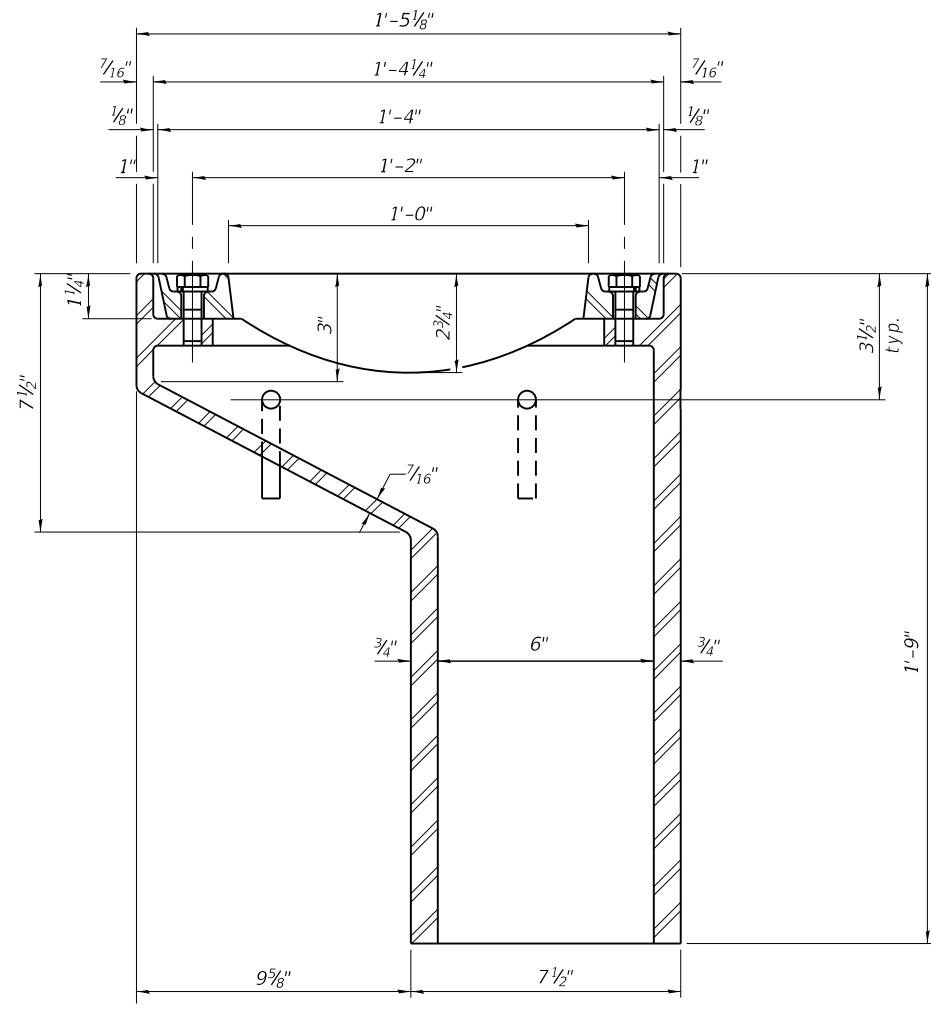
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CONTRACT NO. 62P09				
ILLINOIS		FED. AID PROJECT		

SD-33

MODEL: Default
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Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be treated as specified on sheet SD-34 of SD-36.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scupper, DS-11.



See sheet of for scupper location relative to parapet.

Drill and tap 4 holes 1/2" deep for 1/2" Ø-13 UNC bolts.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	7

DS-11 5-15-2023

Bowman 10 S. LaSalle Street, Suite 210 Chicago, Illinois 60606 312-474-0560 www.bowman.com	USER NAME = pskolba	DESIGNED - AT	REVISED - 10/30/2023 AJN
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	PLOT DATE = 10/18/2023	DRAWN - AT/PS	REVISED -
		CHECKED - AJN	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11
 STRUCTURE NO. 049-0046 (EB) & 049-0047 (WB)

SHEET 34 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
333	2021-071-BDR	LAKE	131	109
CONTRACT NO.			62P09	
ILLINOIS FED. AID PROJECT				

SD-34