

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAU RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	1
ILLINOIS CONTRACT NO.			61J48	

INDEX OF SHEETS

SEE SHEET 2 FOR INDEX OF SHEETS

HIGHWAY STANDARDS

SEE SHEET 2 FOR LIST OF HIGHWAY STANDARDS

DISTRICT 1 DETAILS

SEE SHEET 2 FOR LIST OF DISTRICT 1 DETAILS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

**FAU 2406 (19TH AVENUE / BROADWAY AVENUE)
SECTION NO.: 16-00131-00-BR
PROJECT NO.: 70P8(911)
ROADWAY AND BRIDGE RECONSTRUCTION
VILLAGE OF MELROSE PARK
COOK COUNTY**

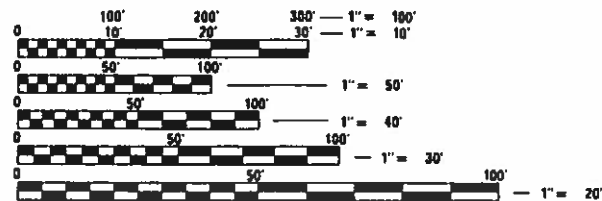
C-91-138-17



CiorbaGroup
CONSULTING ENGINEERS
DESIGN FIRM REGISTRATION NUMBER: 184-001016
8725 W. Higgins Road, Suite 600 | Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

DESIGN DESIGNATION

19TH AVENUE / BROADWAY AVENUE:
FUNCTIONAL CLASS = MAJOR COLLECTOR
ADT (2021) = 8,145
ADT (2050) = 9,500
DESIGN SPEED = 30 MPH
POSTED SPEED = 20 MPH
TRAFFIC FACTOR = 1.69 (HMA-20)

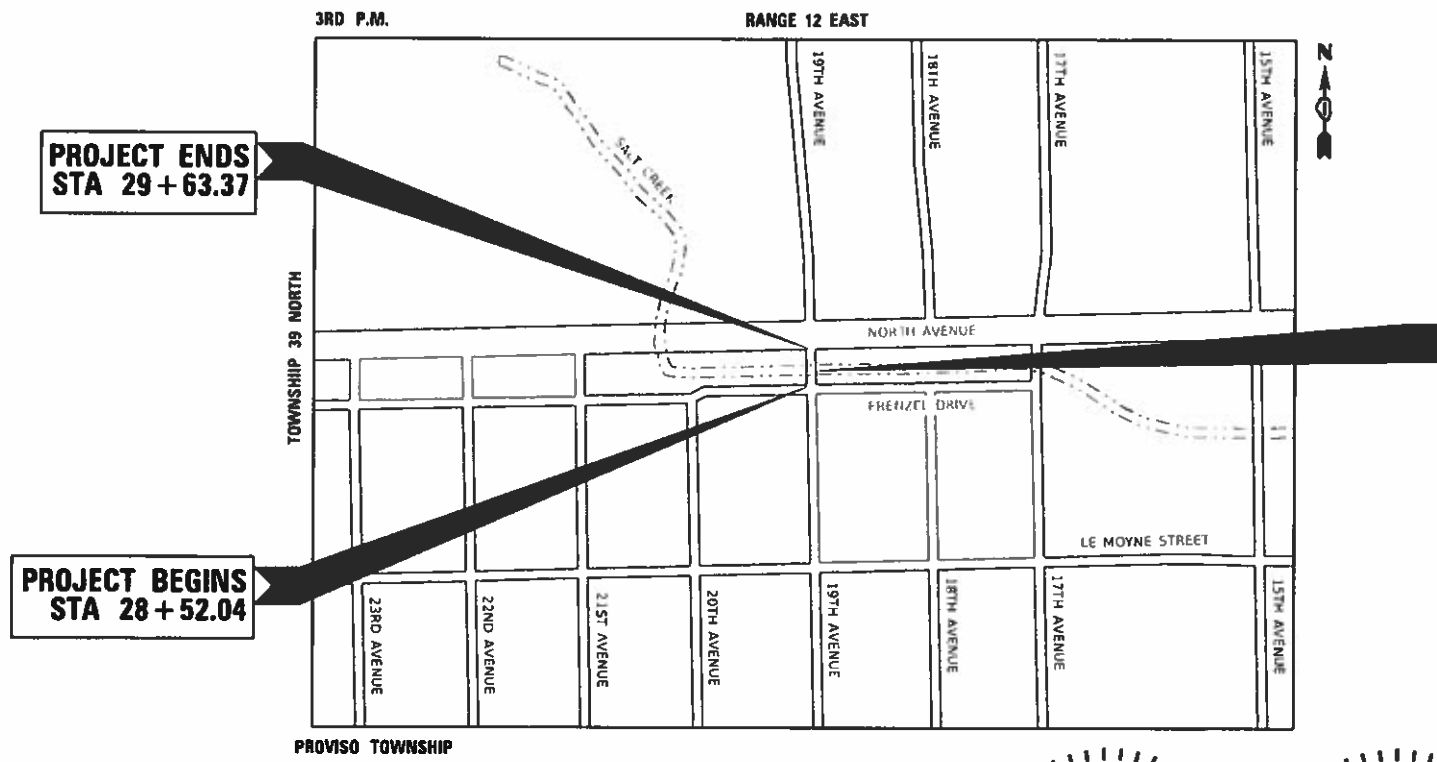
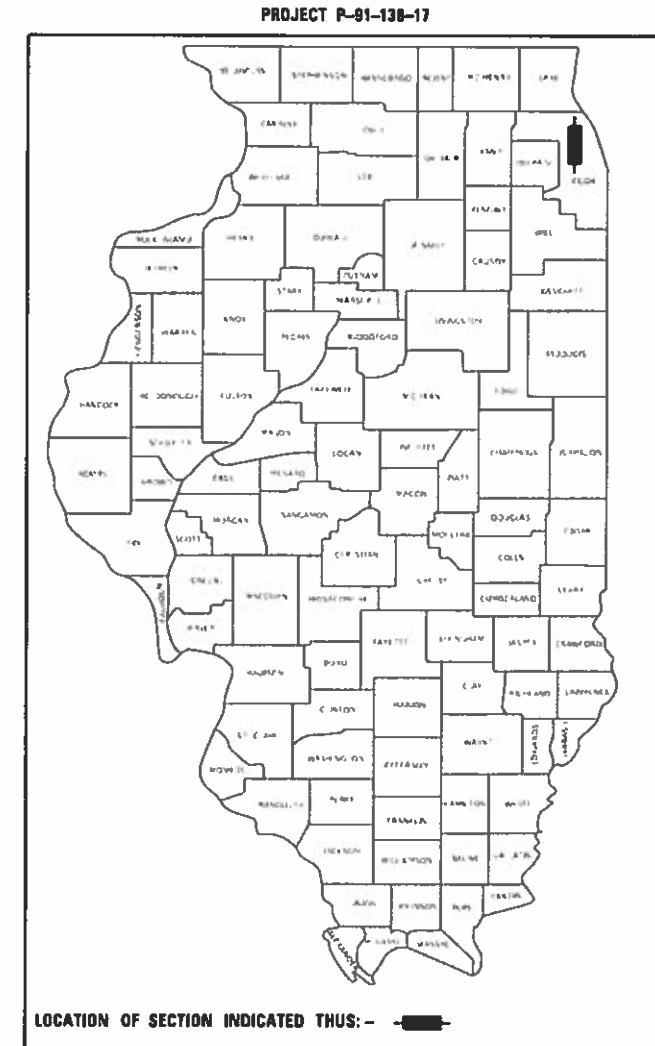


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

Contact the Metropolitan Water Reclamation District of Greater Chicago 2 days before starting work.
P (708) 588-4055
WMOJobStart@mwrdd.org

CONTRACT NO. 61J48



**PROJECT ENDS
STA 29 + 63.37**

**PROJECT BEGINS
STA 28 + 52.04**

**EXISTING S.N. 016-7477
PROPOSED S.N. 016-7483
STA 29 + 05.54
SINGLE SPAN REINFORCED CONCRETE SLAB
SUPERSTRUCTURE ON CLOSED ABUTMENTS**

GROSS LENGTH = 111.33 FT. = 0.021 MILE
NET LENGTH = 111.33 FT. = 0.021 MILE

DIANA L. DECKER
062-056649
LICENSED PROFESSIONAL ENGINEER
OF

WILL W. MARDAUSS
081-008264
LICENSED PROFESSIONAL ENGINEER

DATE: 1/10/2023 SEAL EXPIRES: 11/30/2023

DATE: 1/10/2023 SEAL EXPIRES: 11/30/2024

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED January 12 20 23
Elwin L. Stettin
VILLAGE OF MELROSE PARK, VILLAGE ENGINEER

PASSED March 1 20 23
C.A. Pralle
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW
March 1 20 23
Jose B. Lucas
REGIONAL ENGINEER

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

INDEX OF DRAWINGS

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IDOT HIGHWAY STANDARDS

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
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSINGS
515001-04	NAME PLATE FOR BRIDGES
602001-02	CATCH BASIN - TYPE A
602301-04	INLET - TYPE A
604001-05	FRAME AND LIDS TYPE 1
604021-04	BASE, FRAME AND LIDS TYPE 5
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
877011-10	STEEL COMBO MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMBO MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNT SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

IDOT DISTRICT 1 DETAILS

BE-300	LIGHT POLE FOUNDATION, 30' TO 35' M.H., 11 1/2" BOLT CIRCLE
BE-403	ALUMINUM LIGHT POLE, 30'-0" MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-02	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

ILLINOIS URBAN MANUAL (IUM)

IUM-530	EROSION CONTROL BLANKET INSTALLATION DETAILS
IUM-561D	INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION
IUM-620A	SILT FENCE PLAN
IUM-690C	TREE TRUNK PROTECTION
IUM-654BW	TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

NATURAL RESOURCES CONSERVATION SERVICE (NRCS)

IL-630	STABILIZED CONSTRUCTION ENTRANCE PLAN
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
INDEX OF SHEETS, HIGHWAY STANDARDS, AND DISTRICT DETAILS**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	2
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN AND COMPLY WITH ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (ADOPTED JANUARY 1, 2022); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" (ADOPTED JANUARY 1, 2023); THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS, THE DETAILS" ON THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
3. ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN MELROSE PARK CORPORATE LIMITS.
4. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5. THE VILLAGE OF MELROSE PARK MUST BE NOTIFIED A MINIMUM OF TWO (2) WORKING DAYS IN ADVANCE OF ANY NON-EMERGENCY CONSTRUCTION WITHIN THE RIGHT-OF-WAY.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892- 0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
7. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE ENGINEER AS COORDINATED WITH THE VILLAGE OF MELROSE PARK PRIOR TO FINAL OCCUPANCY BEING GRANTED.
8. THE LOCATION AND ELEVATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.
9. ALL CONSTRUCTION MATERIALS WITHIN THE VILLAGE RIGHT-OF-WAY MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO ENGINEER APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.
10. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION, A COPY OF ALL MATERIAL TESTING COMPANY RESULTS, AND A WEEKLY FIELD REPORT UTILIZING THE APPROPRIATE IDOT FORM.
11. ALL COORDINATES SHOWN ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, MAP COORDINATES REFLECT NAD 83 (2011 ADJUSTMENT)
12. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
13. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND ANY SURPLUS MATERIAL SHALL BE REMOVED AND RESTORATION SHALL PROCEED AS WORK PROCEEDS. IF THE ENGINEER SO DIRECTS, THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP AND RESTORATION. DEBRIS AND SURPLUS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING PAVEMENT, CURB & GUTTER, AND SIDEWALK NOT SHOWN AS REMOVED OR WORKED ON DURING CONSTRUCTION SHALL BE REPAIRED AND REPLACED.
14. PACE MUST BE NOTIFIED A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY ROAD CLOSURES. RICHARD WILLMAN AT TRANSPORTATION.ENGINEER@PACEBUS.COM
15. THE CONTRACTOR SHALL THOROUGHLY DOCUMENT EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION VIA VIDEO RECORDING.
16. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
17. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED, AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

COMMITMENTS

18. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
19. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.
20. BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED.
21. FOUR TEMPORARY INFORMATION SIGNS ARE NEEDED TO NOTIFY THE PUBLIC OF THE PROJECT. THE SIGNS SHALL BE FURNISHED SEVEN DAYS IN ADVANCE OF THE START OF CONSTRUCTION AND TO ENCOURAGE REGIONAL TRAFFIC TO AVOID BROADWAY AVENUE, EACH AT:
 - 1) SOUTHBOUND BROADWAY AVENUE AND IL 64
 - 2) NORTHBOUND BROADWAY AVENUE AND IL 64
 - 3) WESTBOUND IL 64 AND 17TH AVENUE
 - 4) EASTBOUND IL 64 AND 21ST AVENUE
22. THE FINAL TOP SIX INCHES OF SOIL IN DISTURBED RIGHT-OF-WAY AREA BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
23. THE CONTRACTOR SHALL TAKE EXTRA CAUTION TO PROTECT THE SAFETY AND INTEGRITY OF MWRD FACILITIES. NO ACCESS HATCHES AND MANHOLE COVERS ON DISTRICT STRUCTURES AND MANHOLES WITHIN THE PROJECT AREA SHALL BE BURIED OR COVERED. NO DEBRIS SHALL ENTER DISTRICT STRUCTURES, SEWERS, OR FACILITIES. DISTRICT PERSONNEL SHALL HAVE A 24 HOUR-A-DAY UNRESTRICTED ACCESS TO ALL DISTRICT FACILITIES.
24. ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT-OF-WAY.
25. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
26. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
27. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.
28. THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
29. THE FOLLOWING ADDITIONAL QUANTITIES HAVE BEEN INCLUDED FOR USE ONLY AT THE DISCRETION OF THE ENGINEER:

SHORT TERM PAVEMENT MARKING REMOVAL	376	SQ FT
TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE III TAPE	63	SQ FT
TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	417	FOOT
TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE III TAPE	175	FOOT
TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE III TAPE	43	FOOT

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
GENERAL NOTES AND COMMITMENTS**

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	3
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
		20101100	TREE TRUNK PROTECTION	EACH	4	4		
		20200100	EARTH EXCAVATION	CU YD	175	175		
		20400800	FURNISHED EXCAVATION	CU YD	400	400		
		20800150	TRENCH BACKFILL	CU YD	26	26		
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	58	58		
		21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	344	344		
		25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25		
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50		
		28000400	PERIMETER EROSION BARRIER	FOOT	468	468		
		28000510	INLET FILTERS	EACH	9	9		
		28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	458	458		
		28100107	STONE RIPRAP, CLASS A4	SQ YD	187		187	
		28200200	FILTER FABRIC	SQ YD	187		187	
	*	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	20	20		

Δ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 1 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	5
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	232	232		
		31101180	SUBBASE GRANULAR MATERIAL, TYPE B 2"	SQ YD	95	95		
		35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	26	26		
		35501306	HOT-MIX ASPHALT BASE COURSE, 5 1/2"	SQ YD	211	211		
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	574	574		
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3	3		
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	30	30		
		40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	178	178		
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	865.5	865.5		
		42400800	DETECTABLE WARNINGS	SQ FT	64	64		
		44000100	PAVEMENT REMOVAL	SQ YD	341	341		
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	277	277		
		44000600	SIDEWALK REMOVAL	SQ FT	1,459	1,459		
		44003100	MEDIAN REMOVAL	SQ FT	62	62		

Δ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 2 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	6
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
		50200100	STRUCTURE EXCAVATION	CU YD	465		465	
		50200300	COFFERDAM EXCAVATION	CU YD	176		176	
		50300100	FLOOR DRAINS	EACH	8		8	
		50300225	CONCRETE STRUCTURES	CU YD	232.0		232.0	
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	181.2		181.2	
		50300260	BRIDGE DECK GROOVING	SQ YD	495		495	
		50300285	FORM LINER TEXTURED SURFACE	SQ FT	8		8	
		50300300	PROTECTIVE COAT	SQ YD	675		675	
		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	166.8		166.8	
		50800105	REINFORCEMENT BARS	POUND	20,520		20,520	
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	159,750		159,750	
		51500100	NAME PLATES	EACH	1		1	
		51603000	DRILLED SHAFT IN SOIL	CU YD	73		73	

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



USER NAME = Roadway	DESIGNED - TBH	REVISED -
	DRAWN - VZ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 3/20/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 3 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	7
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
		52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2,789		2,789	
		550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	89	89		
		55100400	STORM SEWER REMOVAL 10"	FOOT	55	55		
△	*	56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	1	1		
		58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	108		108	
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	99		99	
		60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	172		172	
		60200505	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 5 FRAME, OPEN LID	EACH	2	2		
		60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1		
		60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1	1		
		60500040	REMOVING MANHOLES	EACH	1	1		
		60500050	REMOVING CATCH BASINS	EACH	1	1		
		60600605	CONCRETE CURB, TYPE B	FOOT	34	34		
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	81.5	81.5		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



USER NAME = Roadway	DESIGNED - TBH	REVISED -
	DRAWN - VZ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 3/20/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 4 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	8
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
		60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	62	62		
△	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	925	211	714	
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
△	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
		67100100	MOBILIZATION	L SUM	1	1		
△	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1		
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	376	376		
△	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1		
		70306100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE III TAPE	SQ FT	63	63		
△	*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10		
		70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	417	417		
		70306130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE III TAPE	FOOT	175	175		
		70306210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE III TAPE	FOOT	43	43		
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	87.5	87.5		
		70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	30	30		
		70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	1	1		
	*	72000100	SIGN PANEL - TYPE 1	SQ FT	467	467		
	*	72000200	SIGN PANEL - TYPE 2	SQ FT	21	21		
		72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	4	4		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 5 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	9
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
		72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2		
		72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	43	43		
		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	72	72		
		73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1	1		
△		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	40	40		
△		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	55	55		
△		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	348	348		
△		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50	50		
△		78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	63	63		
△		78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	417	417		
△		78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	175	175		
△		78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	43	43		
		78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	435	435		
△		81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	136	136		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION

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USER NAME = Roadway	DESIGNED - TBH	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. | SHEET NO. 6 OF 14 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	10
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△		81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44	44		
△		81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	164	164		
△		81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	114	114		
△		81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	12	12		
△		81100420	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	110	110		
△		81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4	4		
△		81400100	HANDHOLE	EACH	3	3		
△		81400300	DOUBLE HANDHOLE	EACH	1	1		
△		81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	1	1		
△		81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,379	2,379		
△		81800400	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	490	490		
△		82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	4	4		
△		83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	12	12		
△		84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	3	3		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 7 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	11
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

DATE PLOTTED = 2/16/2023 2:38:16 PM
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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△		84200804	REMOVAL OF POLE FOUNDATION	EACH	3	3		
△		85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1		
△		85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	2	2		
△		85100901	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2	2		
△		87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4	4		
△		87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,546	1,546		
△		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,590	1,590		
△		87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,546	1,546		
△		87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,590	1,590		
△		87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	737	737		
△		87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,203	1,203		
△		87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	350	350		
△		87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	447	447		
△		87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	2	2		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 8 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	12
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△		87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1	1		
△		87703030	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1	1		
△		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8	8		
△		87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4		
△		87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15	15		
△		87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21	21		
△		87900200	DRILL EXISTING HANDHOLE	EACH	8	8		
△		88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	4		
△		88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2		
△		88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1		
△		88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1	1		
△		88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2		
△		88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5	5		
△		88600100	DETECTOR LOOP, TYPE I	FOOT	155	155		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 9 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	13
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△		89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1		
△		89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2	2		
△		89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2	2		
△		89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1	1		
△		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,414	1,414		
△		89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1		
△		89502376	REBUILD EXISTING HANDHOLE	EACH	4	4		
△		89502380	REMOVE EXISTING HANDHOLE	EACH	1	1		
△		89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1		
△		89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4	4		
△		D2003536	EVERGREEN, TAXUS X MEDIA DENSIFORMIS DENSE ANGLOJAPANESE YE(W), 3' WIDTH, BALLED AND BURLAPPED	EACH	5	5		
△		K1005482	SHREDDED BARK MULCH 4"	SQ YD	73	73		
		X0300019	REMOVE AND REINSTALL PARKING BLOCKS	EACH	6	6		
		X0300266	WOODEN FENCE REMOVAL	FOOT	190	190		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 10 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	14
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

DATE PLOTTED = 2/16/2023 2:38:16 PM
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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
		X0320051	CROSSHOLE SONIC LOGGING ACCESS DUCTS	FOOT	1,188		1,188	
		X0320052	CROSSHOLE SONIC LOGGING TESTING	EACH	4		4	
△		X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	328	328		
		X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	149	149		
△		X0326656	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	1	1		
		X0326681	REMOVE AND RE-ERECT BOULDERS	L SUM	1	1		
		X0326806	WASHOUT BASIN	L SUM	1	1		
		X0327036	BIKE PATH REMOVAL	SQ YD	53	53		
△		X0327078	REMOVE FIRE HYDRANT AND VALVE ASSEMBLY	EACH	1	1		
		X0350810	BOLLARD REMOVAL	EACH	1	1		
	*	X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	2		2	
△	*	X1400012	REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT	FOOT	360	360		
△	*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1	1		
△	*	X1400238	LUMINAIRE, LED, SPECIAL	EACH	4	4		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



USER NAME = Roadway	DESIGNED - TBH	REVISED -
	DRAWN - VZ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 2/16/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 11 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	15
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△	*	X1400268	REMOVAL OF LIGHTING LUMINAIRE, SALVAGE	EACH	2	2		
△	*	X1400340	AERIAL CABLE REMOVAL	FOOT	536	536		
△	*	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1	1		
△	*	X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1	1		
	*	X1700071	CLASS D PATCHES, TYPE II, 10 INCH (SPECIAL)	SQ YD	20	20		
	*	X2010400	STUMP REMOVAL ONLY	UNIT	12	12		
△	*	X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.25	0.25		
	*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	234	234		
△	*	X2600032	GATEWAY MONUMENT SIGN COMPLETE	EACH	4	4		
	*	X4400060	BRICK SIDEWALK REMOVAL	SQ FT	90	90		
	*	X5030290	STAINING CONCRETE STRUCTURES	SQ FT	8	8		
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
△	*	X8100863	INTERCEPT EXISTING CONDUIT	EACH	5	5		
△	*	X8300001	LIGHT POLE, SPECIAL	EACH	1	1		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 12 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	16
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△	*	X8440102	RELOCATE EXISTING LUMINAIRE	EACH	2	2		
△	*	X8510204	PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	1	1		
△	*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8	8		
	*	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4	4		
	*	Z0004552	APPROACH SLAB REMOVAL	SQ YD	94	94		
	*	Z0007124	STEEL RAILING (SPECIAL)	FOOT	100		100	
	*	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	51	51		
	*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	*	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	1	1		
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103		
△	*	Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4	4		
△	*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5	5		
△	*	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1		
	*	Z0062456	TEMPORARY PAVEMENT	SQ YD	22	22		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



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	DRAWN - VZ	REVISED -
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PLOT DATE = 2/16/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 13 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	17
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

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SPECIALTY ITEM	SP	CODE NO.	ITEM	UNIT	TOTAL	80% FED 20% STATE		
						RDWY 0004	BRIDGE REPLACE 0010	TRAINEES 0042
△	*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	4		
	*	Z0075500	TIMBER RETAINING WALL	SQ FT	67	67		
	*	Z0075505	TIMBER RETAINING WALL REMOVAL	FOOT	20	20		
	*	Z0076600	TRAINEES	HOURL	500			500
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500			500
	*	Z0077900	WOOD POST AND RAIL FENCE	FOOT	200	200		
△	*	XX008396	CAMERA MOUNTING ASSEMBLY, SPECIAL	EACH	1	1		

△ DENOTES SPECIALTY ITEM
 * INDICATES SPECIAL PROVISION



USER NAME = Roadway	DESIGNED - TBH	REVISED -
	DRAWN - VZ	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 2/16/2023	DATE - 1/16/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
 SUMMARY OF QUANTITIES**
 SCALE: N.T.S. | SHEET NO. 14 OF 14 SHEETS | STA. TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 18
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

STATION	LENGTH	CUT	FILL	EARTH EXCAVATION	NON-SPECIAL WASTE	EXCAVATION FOR EMBANKMENT ADJUSTED FOR SHRINKAGE (15%) [1]	EMBANKMENT	EARTHWORK BALANCE WASTE () OR SHORTAGE (-) [1]	FURNISHED EXCAVATION	
				A	B	C=(A-B)*(1-%)	D	E=C-D	F=-E	
	(FT)	(SF)	(SF)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	
BROADWAY AVE										
BACK	28+52		60.40	0.00						
	28+58	6.0	53.84	0.00	12.7	12.7	0.0	0.0	0.0	
AHEAD	28+86	27.8	27.93	38.42	42.0	42.0	0.0	19.7	-19.7	
BRIDGE OMISSION										
AHEAD	29+25		48.93	24.39						
	29+47	21.9	109.41	0.00	64.3	64.3	0.0	9.9	-9.9	
BACK	29+63	16.2	66.66	0.00	52.7	52.7	0.0	0.0	0.0	
STRUCTURAL EXCAVATION					465.0		357.0	-357.0	357.0	
COFFERDAM EXCAVATION					176.0		0.0	0.0	0.0	
DRILLED SHAFT IN SOIL					73.0		0.0	0.0	0.0	
STORM SEWER TRENCH EXCAVATION					11.0		0.0	0.0	0.0	
TRAFFIC SIGNAL EXCAVATION (TEMP. AND PERM.)					26.0		12.0	-12.0	12.0	
SUB-TOTAL					171.7	922.7	0.0	398.7	-398.7	398.7
PROJECT TOTAL					175.0	925.0	0.0	400.0	-400.0	400.0

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

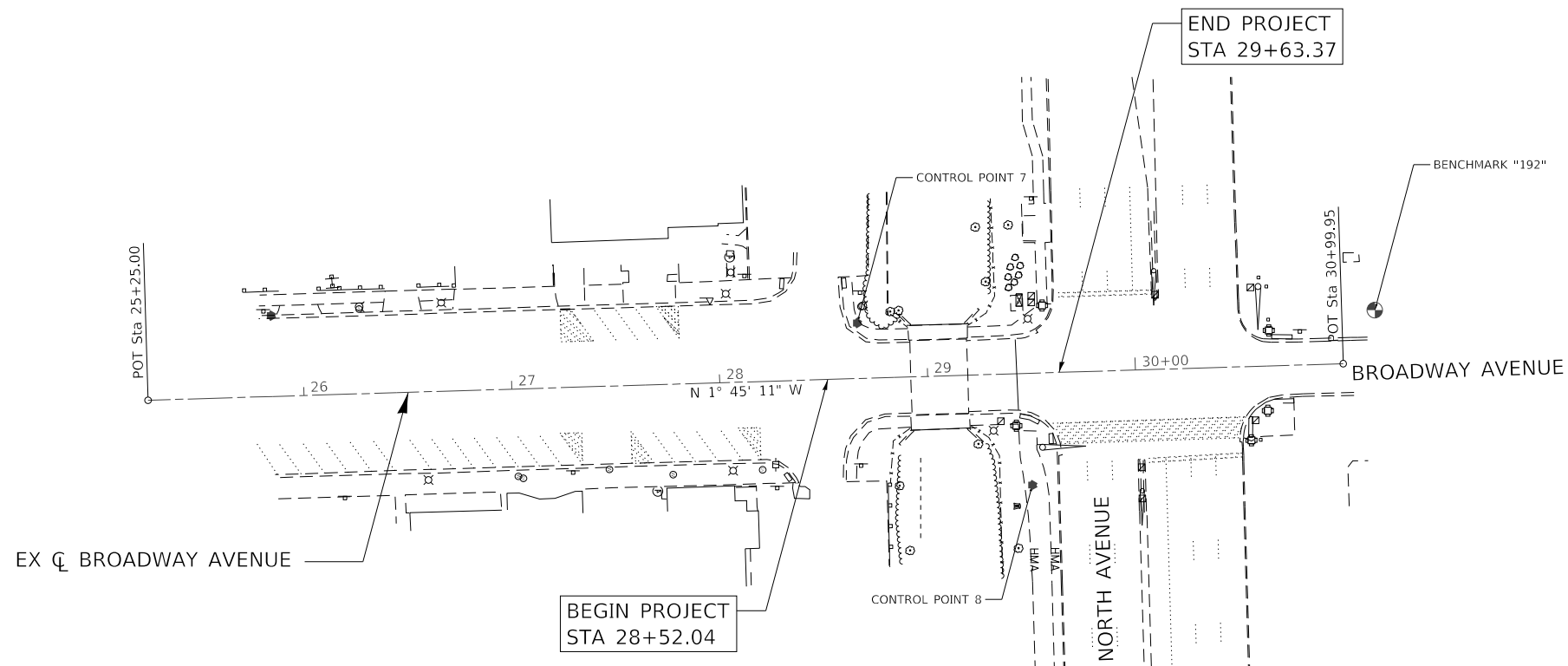
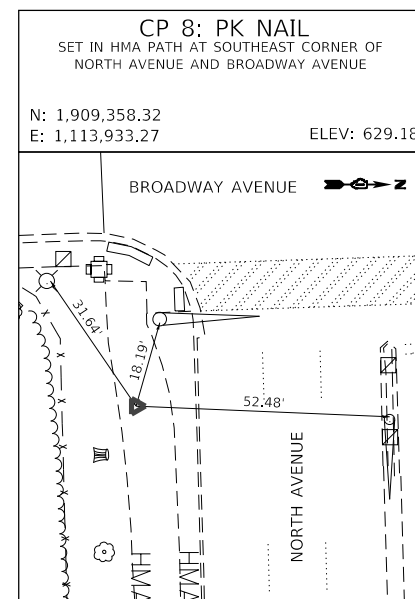
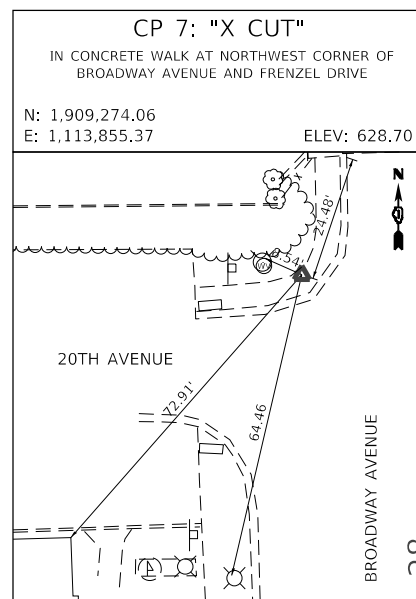
**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SCHEDULE OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 1 OF 14 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	18A
CONTRACT NO.				61J48
ILLINOIS FED. AID PROJECT				



PROJECT COORDINATES			
BROADWAY AVENUE ALIGNMENT			
DESCRIPTION	STATION	NORTHING	EASTING
P.O.T	25+25.00	1,908,933.10	1,113,892.53
P.O.T	30+99.95	1,909,507.78	1,113,874.94



SITE BENCHMARKS		ELEVATION
BM 192	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF NORTH AND BROADWAY AVENUE	630.90
BM 194	NORTH-NORTHEAST BONNET BOLT ON FIRE HYDRANT AT 1956 19TH AVENUE (WEST SIDE)	634.65

NOTES:

- ALL COORDINATES SHOWN ARE BASED UPON THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, MAP COORDINATES REFLECT NAD 83 (2011 ADJUSTMENT)
- ALL COORDINATE VALUES SHOWN ARE IN THE U.S. SURVEY FOOT UNITS.
- ELEVATIONS REFLECT THE NAVD 88 (GEOID12A ADJUSTMENT).
- SOME OR ALL OF THE CONTROL POINTS AND BENCHMARKS MAY BE DESTROYED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND RELOCATE THESE OUTSIDE OF THE CONSTRUCTION LIMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

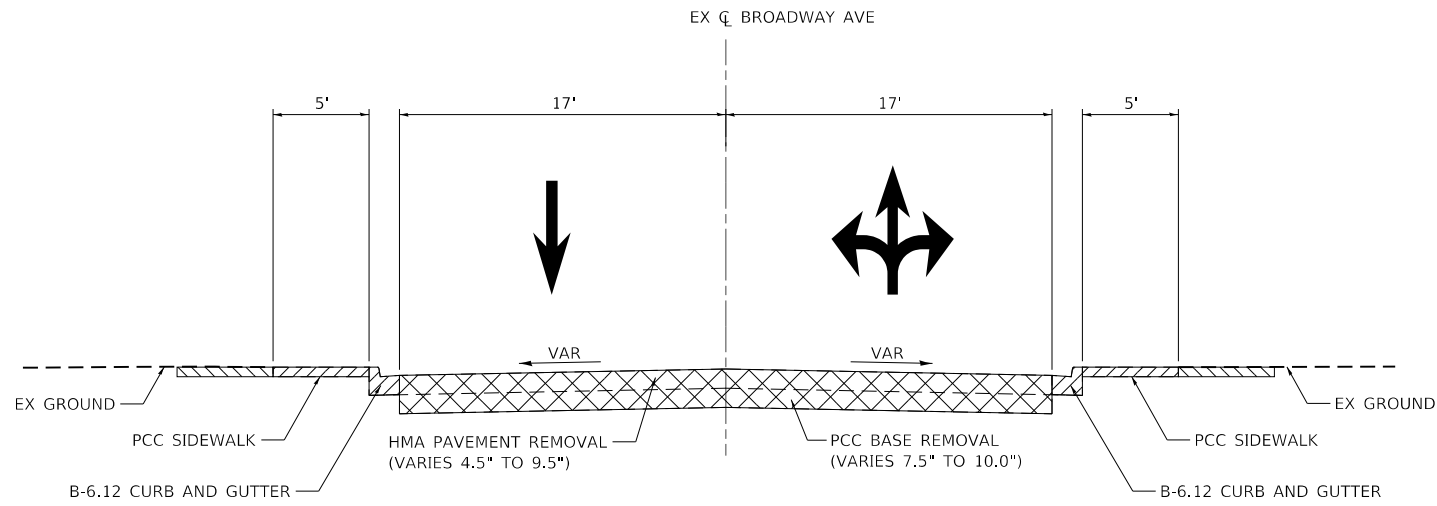
**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: 1" = 40' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	19
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

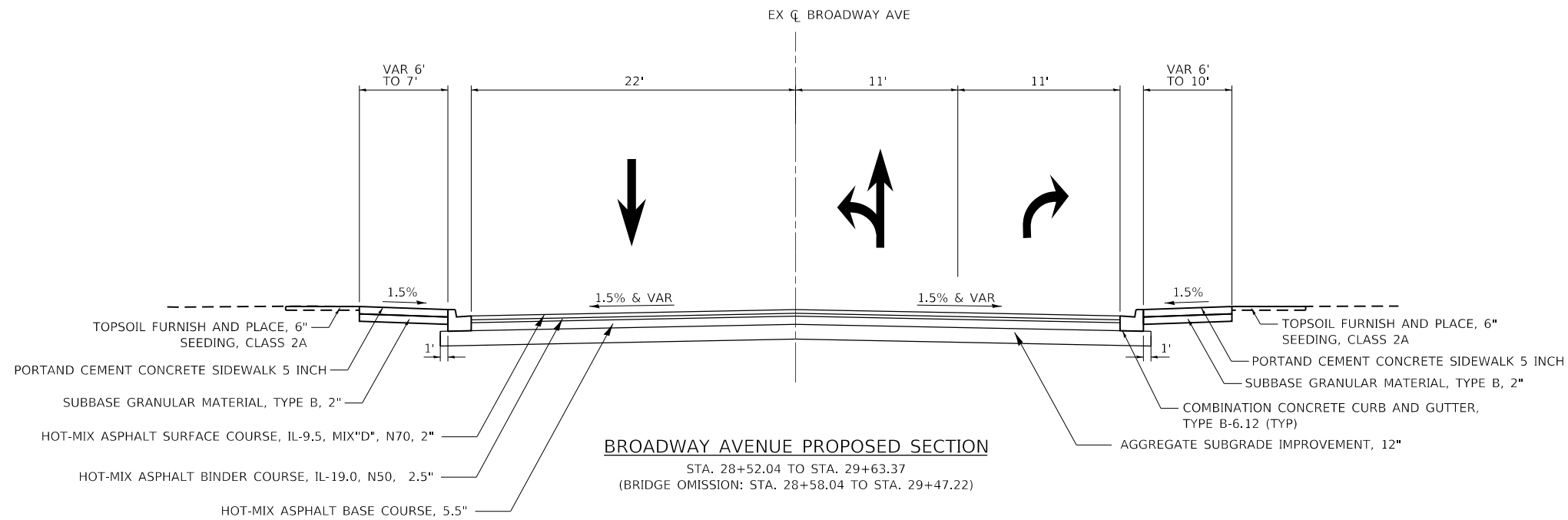
LEGEND

-  CURB & GUTTER / SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL



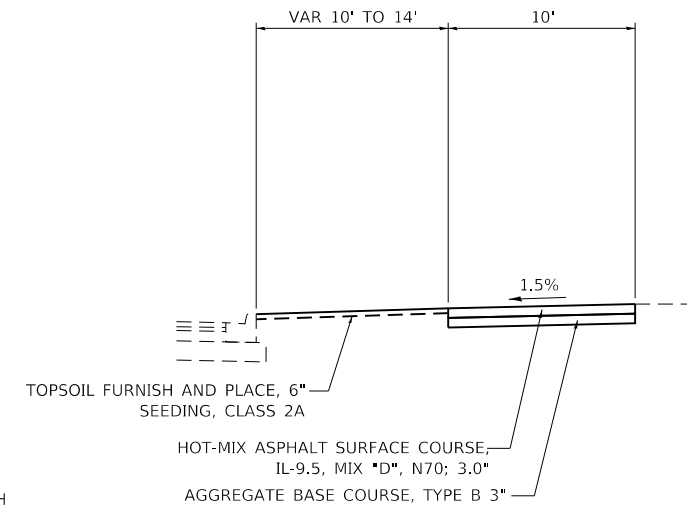
BROADWAY AVENUE EXISTING SECTION

STA. 28+52.04 TO STA. 29+63.37
(BRIDGE OMISSION: STA. 28+91.89 TO STA. 29+19.39)



BROADWAY AVENUE PROPOSED SECTION

STA. 28+52.04 TO STA. 29+63.37
(BRIDGE OMISSION: STA. 28+58.04 TO STA. 29+47.22)



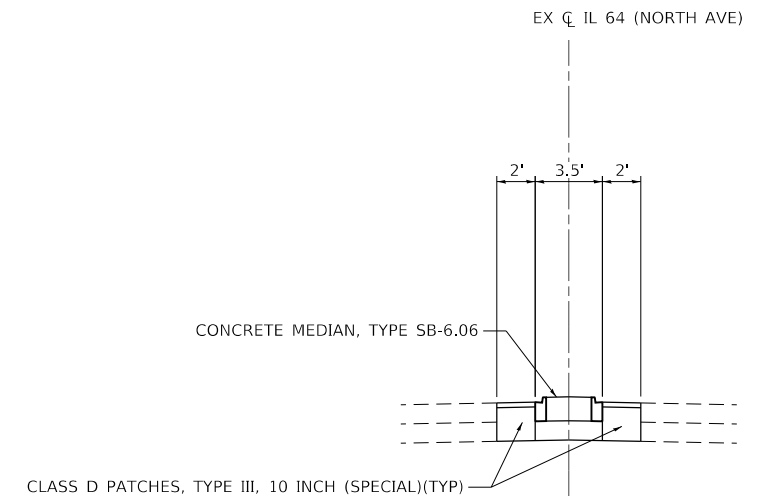
PROPOSED MULTI-USE PATH

NORTH AVENUE (LOOKING EAST)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	PERCENT AIR VOIDS	QMP
PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2.0"	4% @ 70 GYR.	LR1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 2.5"	4% @ 50 GYR.	LR1030-2
HOT-MIX ASPHALT BASE COURSE; 5.5" (HMA BINDER IL-19.0)	4% @ 50 GYR.	LR1030-2
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 6.0"	4% @ 50 GYR.	LR1030-2
MULTI-USE PATH PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 3.0"	4% @ 70 GYR.	LR1030-2
CLASS D PATCHES (SPECIAL)		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2.0"	4% @ 70 GYR.	LR1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 10"	4% @ 50 GYR.	LR1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE PER LOCAL ROADS SPECIAL PROVISION LR 1030-2		

NOTE:

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



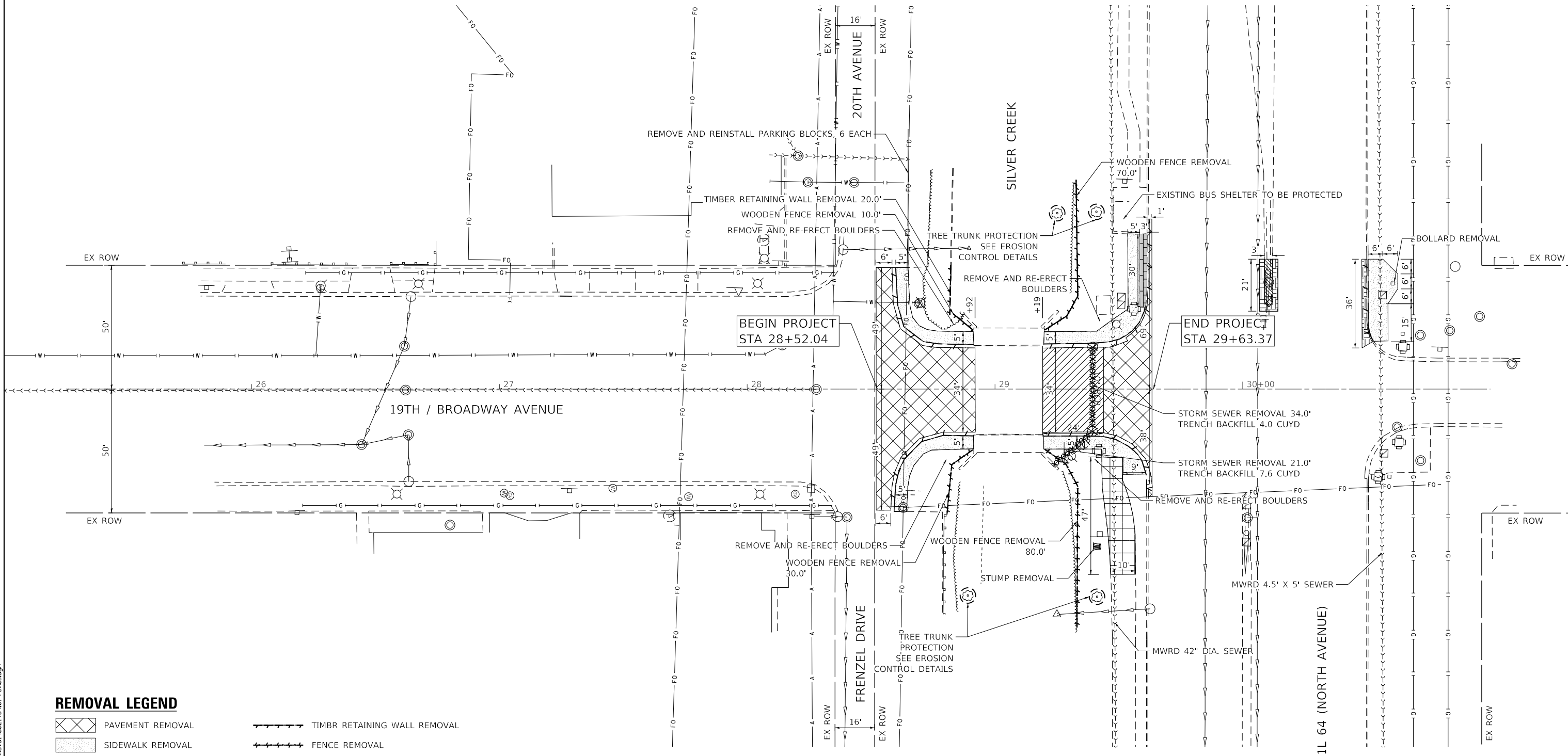
PROPOSED MEDIAN

NORTH AVENUE (LOOKING EAST)

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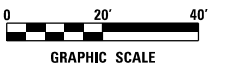
NOTES:

- HMA SURFACE REMOVAL REQUIRED AS SHOWN ON THE MAINTENANCE OF TRAFFIC DETAIL SHEET TO RESTORE CONTRACTOR STAGING AREA UPON COMPLETION OF BRIDGE CONSTRUCTION.



REMOVAL LEGEND

- | | | | |
|--|--------------------------|--|---|
| | PAVEMENT REMOVAL | | TIMBR RETAINING WALL REMOVAL |
| | SIDEWALK REMOVAL | | FENCE REMOVAL |
| | APPROACH SLAB REMOVAL | | CURB AND GUTTER REMOVAL |
| | MEDIAN REMOVAL | | STORM SEWER REMOVAL 10" |
| | HMA REMOVAL OVER PATCHES | | REMOVING CATCH BASINS/MANHOLES |
| | BIKE PATH REMOVAL | | FIRE HYDRANT AND VALVE ASSEMBLY REMOVAL |
| | BRICK SIDEWALK REMOVAL | | TREE TRUNK PROTECTION |



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 25+25.00 TO STA. 31+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	21
CONTRACT NO. 61J48				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. A DROP OFF GREATER THAN 12 INCHES ADJACENT TO AN OPEN TRAFFIC LANE SHALL NOT BE ALLOWED AT THE END OF EACH DAY PER THE SAFETY ENGINEERING POLICY MEMORANDUM 4-21. THE CONTRACTOR SHALL PROVIDE A MINIMUM 1V:4H AGGREGATE RAMP FOR ALL DROP OFF GREATER THAN 12 INCHES THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION PAY ITEM.
2. PAVEMENT IN STAGING AREA SHALL BE MILLED UTILIZING HOT-MIX ASPHALT SURFACE REMOVAL, 2" AND RESTORED IN KIND WITH HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70.
3. WESTBOUND IL 64 EXCLUSIVE LEFT-TURN LANE TO SOUTHBOUND BROADWAY AVENUE WILL BE CLOSED PERMANENTLY FOR THE DURATION OF CONSTRUCTION PER HIGHWAY STANDARD 70170.1.
4. SEE DETOUR PLAN FOR ADDITIONAL INFORMATION ON DETOUR SIGNAGE AND BARRICADE PLACEMENT.
5. TYPE III BARRICADES WILL BE PROVIDED AT LOCATIONS SHOWN IN THE PLANS TO PROVIDE A PROPER CLOSURE, SPACING, AND PLACEMENT AS SHOWN ON STANDARD 701901 OR AS APPROVED BY THE ENGINEER.
6. ACCESS TO DRIVEWAYS, ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES PER THE TEMPORARY ACCESS SPECIAL PROVISION.
7. EASTBOUND PACE BUS STOP WILL BE TEMPORARILY RELOCATED EAST OF BROADWAY AVENUE DURING CONSTRUCTION.

STAGING NOTES

PRE STAGE

CONSTRUCTION:

1. THE CONTRACTOR SHALL INSTALL TEMPORARY PAVEMENT, TEMPORARY CONCRETE BARRIER WALLS, IMPACT ATTENUATOR, AND TEMPORARY TRAFFIC SIGNALS AT THE IL 64 / BROADWAY AVENUE INTERSECTION.

MAINTENANCE OF TRAFFIC:

1. MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION ON IL 64 UTILIZING DAY TIME CLOSURES PER HIGHWAY STANDARD 701601.

STAGE 1

CONSTRUCTION:

1. CONSTRUCTION OF THE PROPOSED STORM SEWERS, SUPERSTRUCTURE, SUBSTRUCTURE AND APPROACH SLABS.

MAINTENANCE OF TRAFFIC:

1. MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC ON BROADWAY AVENUE PER THE TRAFFIC CONTROL DETOUR PLANS.
2. IL 64 MULTI-USE PATH TO BE DETOURED UTILIZING LE MOYNE STREET, 25TH AVENUE AND 17TH AVENUE PER THE TRAFFIC CONTROL DETOUR PLAN.

STAGE 2

CONSTRUCTION:

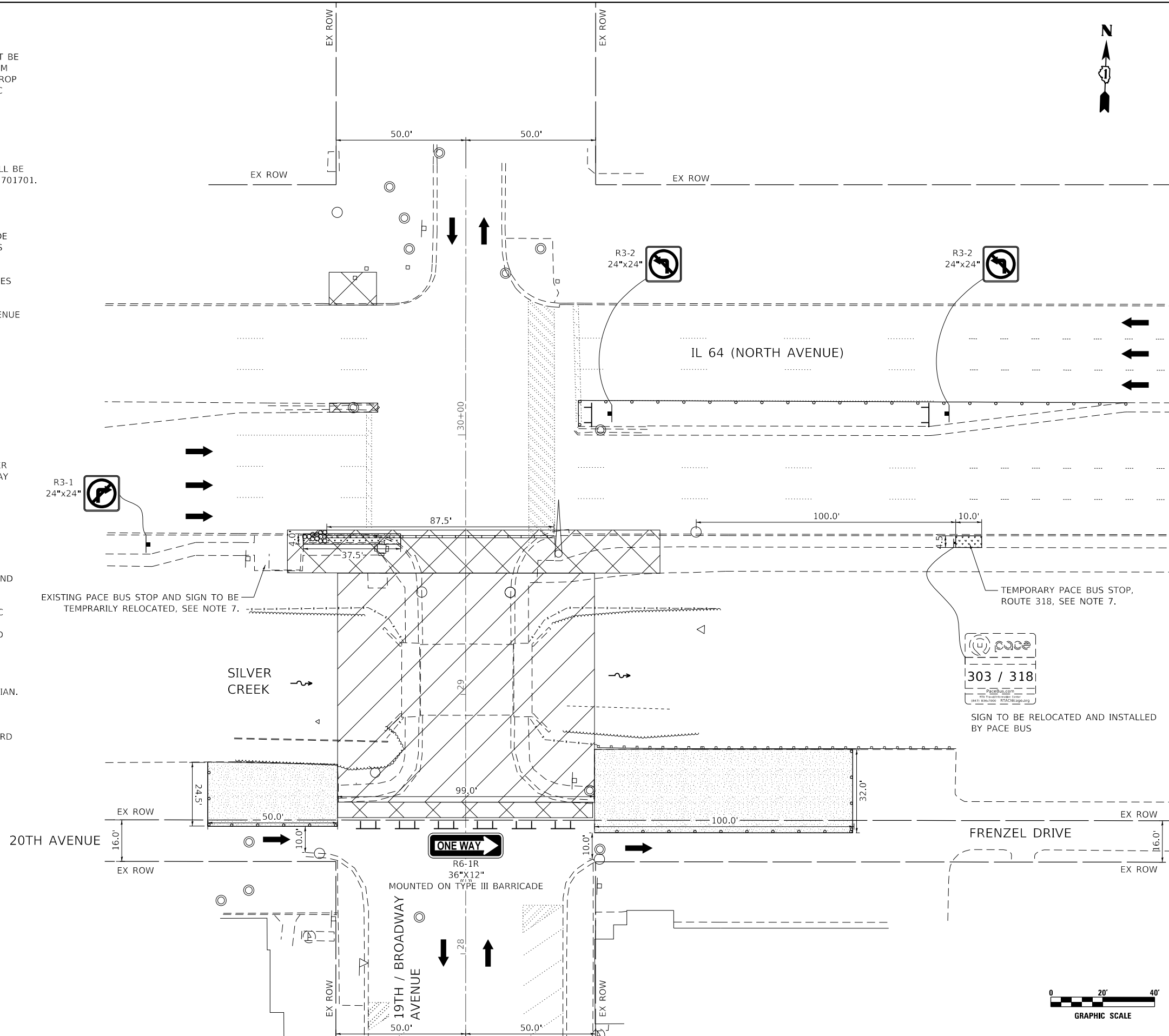
1. CONSTRUCTION OF THE PROPOSED PAVEMENT, TRAFFIC SIGNALS, CURB RAMPS, AND MEDIAN.

MAINTENANCE OF TRAFFIC:

1. MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION ON IL 64 UTILIZING DAY TIME CLOSURES TO CONSTRUCT PAVEMENT, CURB RAMPS, AND MEDIAN PER HIGHWAY STANDARD 701601 AND 701701.

LEGEND

- WORK ZONE - STAGE 1
- WORK ZONE - STAGE 2
- TEMPORARY PAVEMENT
- STAGING AREA
- TEMPORARY CONCRETE BARRIER (PINNED)
- VERTICAL BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (FULLY DIRECTIVE, NARROW TEST LEVEL 2)
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WITH FLASHERS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

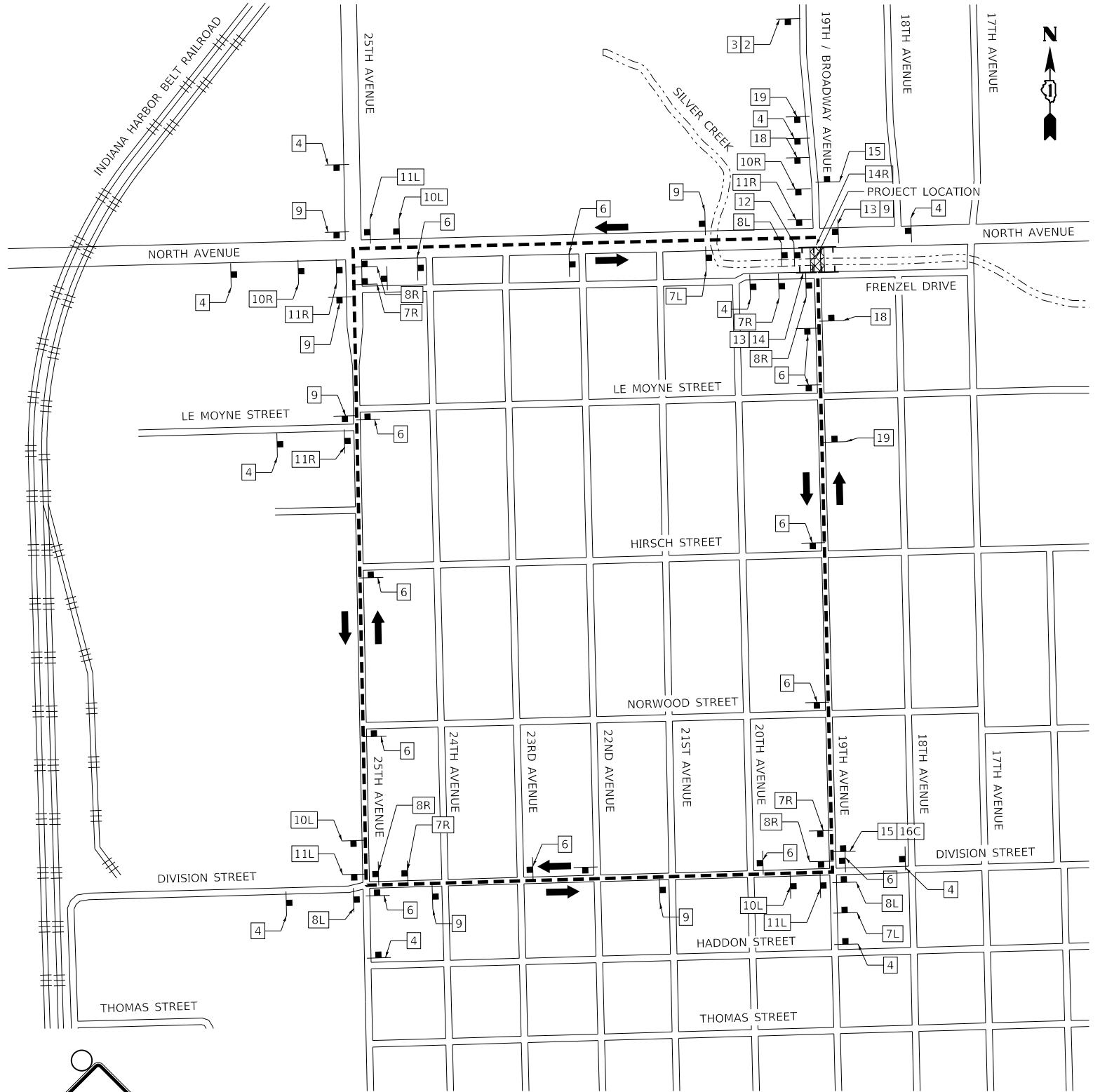
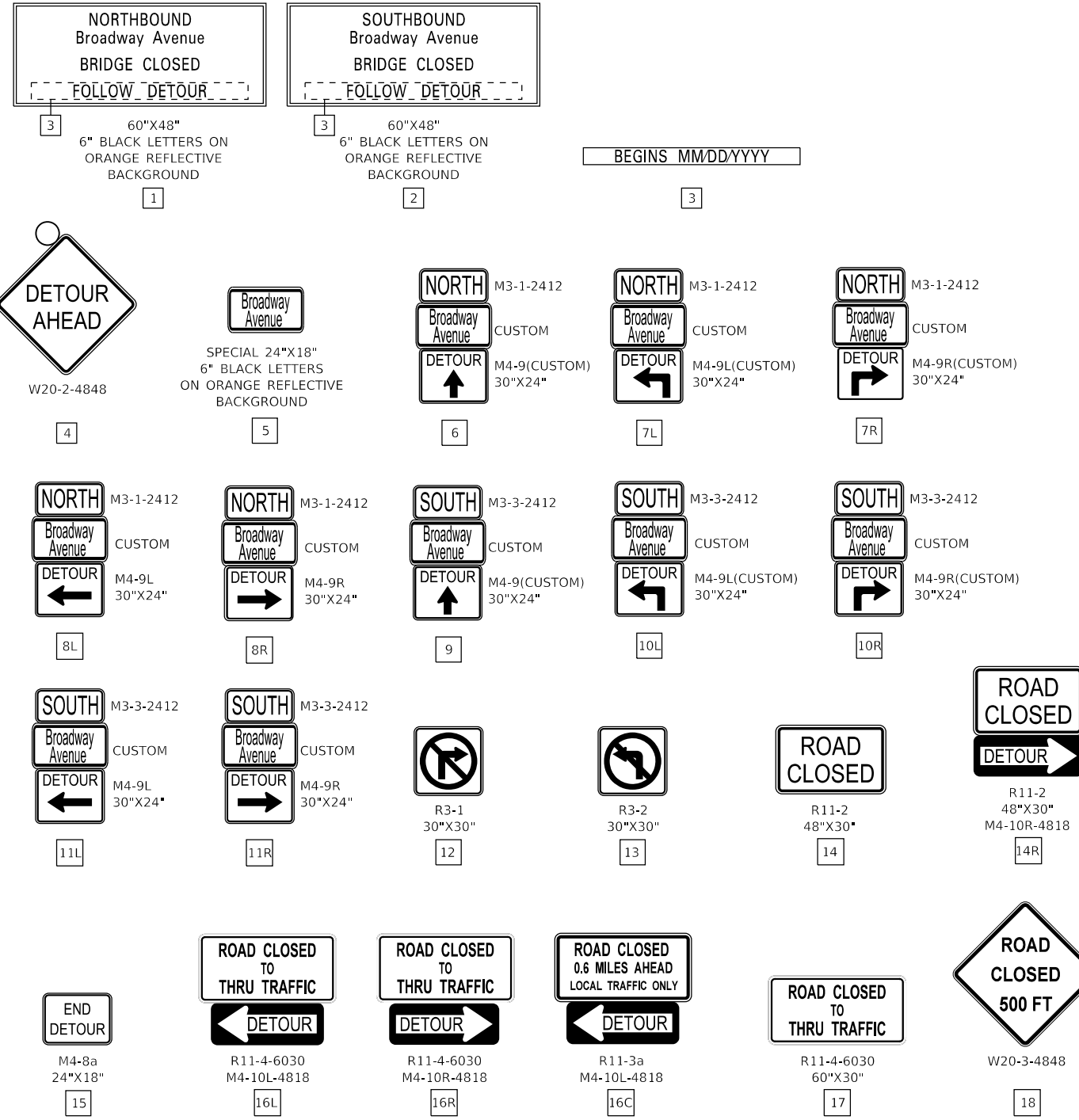
BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
MAINTENANCE OF TRAFFIC NOTES AND DETAIL SHEET

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 23
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

NOTES

1. SIGN 1 AND 2 COVERING SHALL BE PLACED ONE (1) WEEK PRIOR TO CLOSURE. REMOVE SIGN 3 ONCE DETOUR BEGINS.
2. THE CONTRACTOR SHALL CALL J.U.L.I.E. BEFORE INSTALLING SIGNS.
3. ROAD CLOSURE SIGNAGE SHALL NOT BE INSTALLED ON ANY STREET LIGHT POLES OR SIGNAL POLES.
4. ROAD CLOSURE SIGNAGE SHALL NOT BLOCK ANY EXISTING SIGNS AND CANNOT USE THE EXISTING SIGN POSTS.
5. TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901.
6. SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-21 UNLESS NOTED ON PLAN.
7. PLAN NOT TO SCALE.



LEGEND

- PROPOSED VEHICLE DETOUR ROUTE
- TYPE III BARRICADE WITH FLASHERS
- DETOUR SIGN POST-MOUNTED PER ARTICLE 701.14 AND HIGHWAY STANDARD 701901
- ROAD COMPLETELY CLOSED TO THRU TRAFFIC

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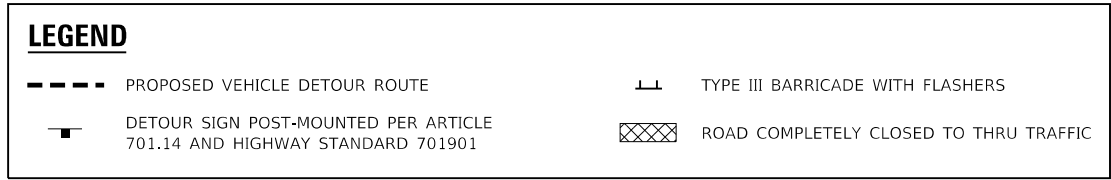
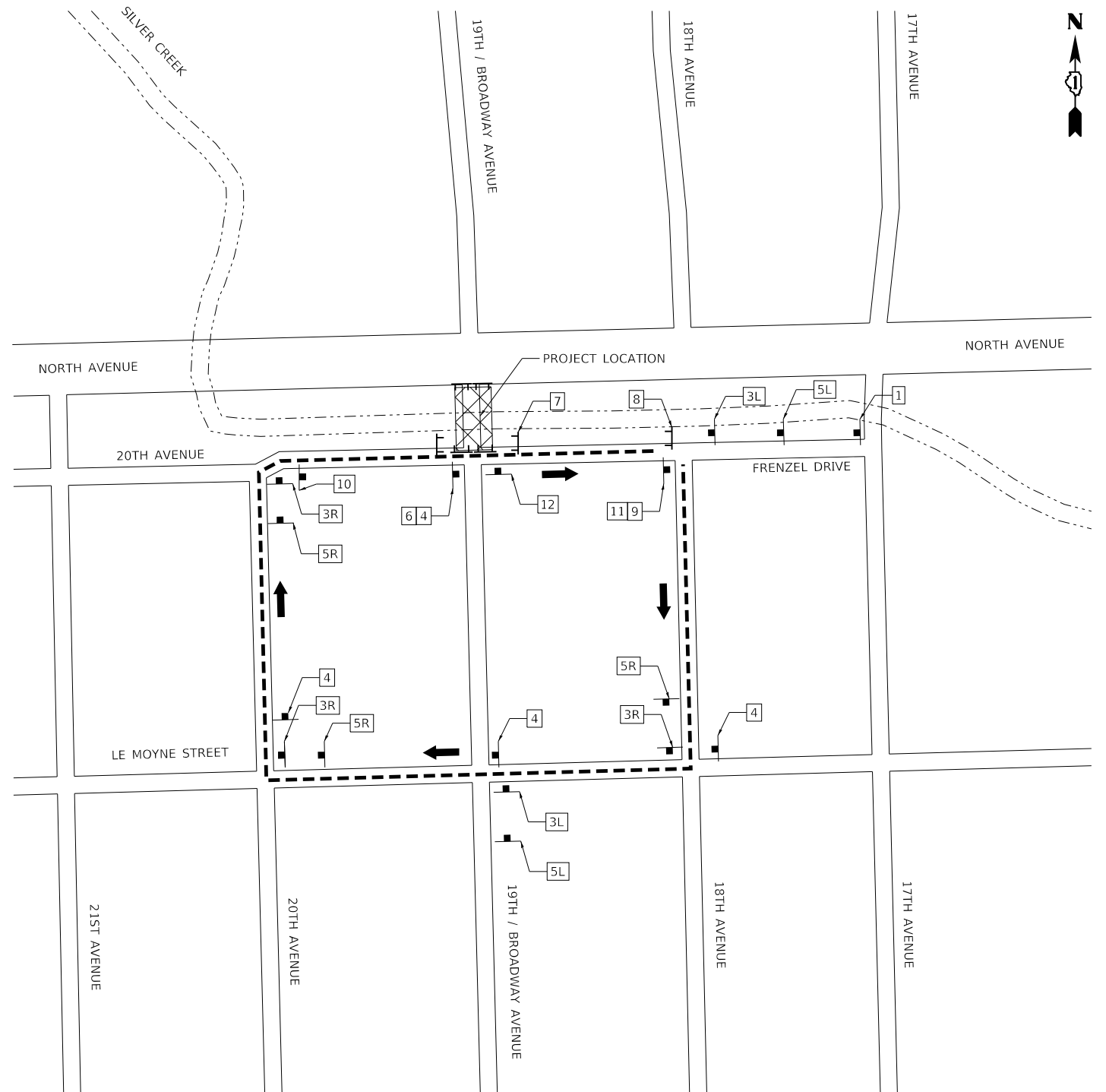
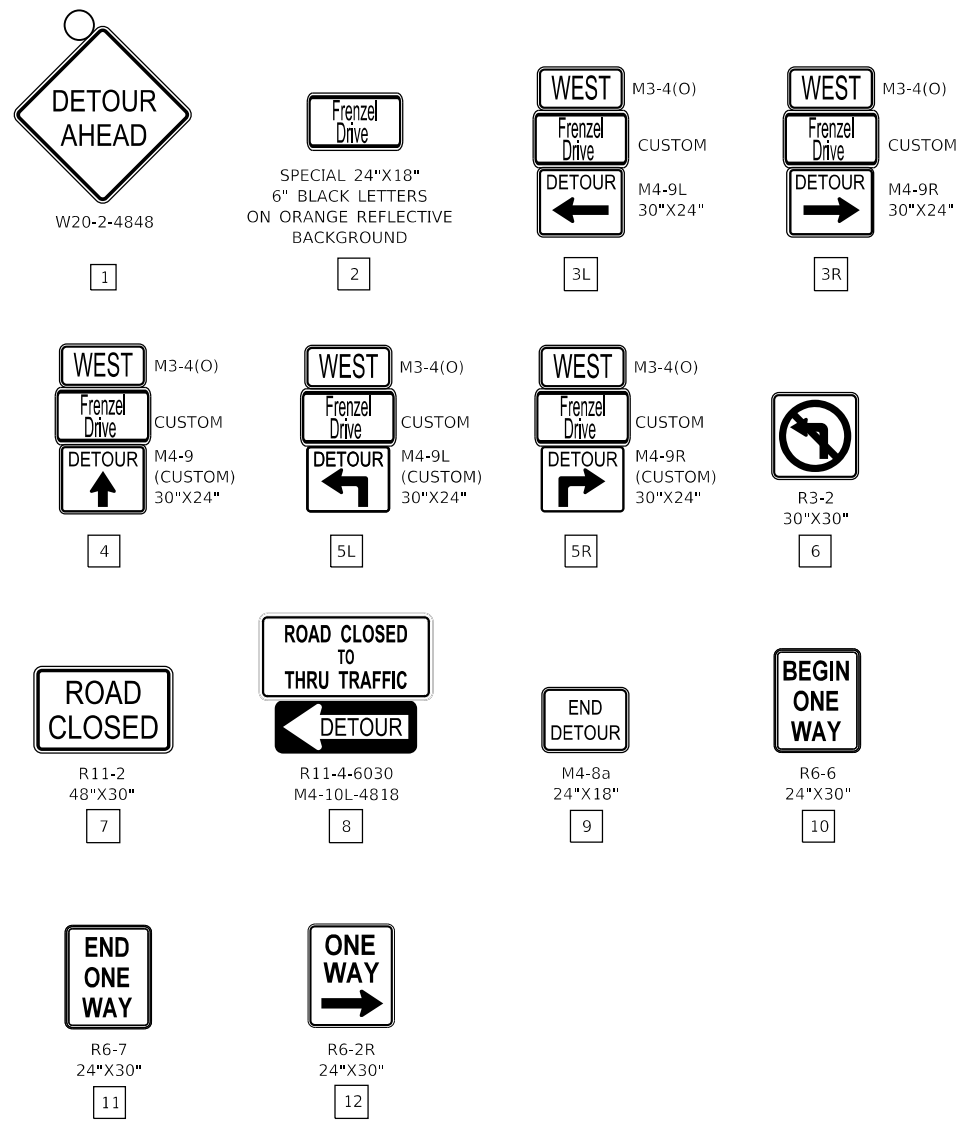
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT BROADWAY AVENUE DETOUR PLAN			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 24
CONTRACT NO. 61J48				ILLINOIS FED. AID PROJECT

NOTES

1. THE CONTRACTOR SHALL CALL J.U.L.I.E. BEFORE INSTALLING SIGNS.
2. ROAD CLOSURE SIGNAGE SHALL NOT BE INSTALLED ON ANY STREET LIGHT POLES OR SIGNAL POLES.
3. ROAD CLOSURE SIGNAGE SHALL NOT BLOCK ANY EXISTING SIGNS AND CANNOT USE THE EXISTING SIGN POSTS.
4. TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901.
5. SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-21 UNLESS NOTED ON PLAN.
6. PLAN NOT TO SCALE.



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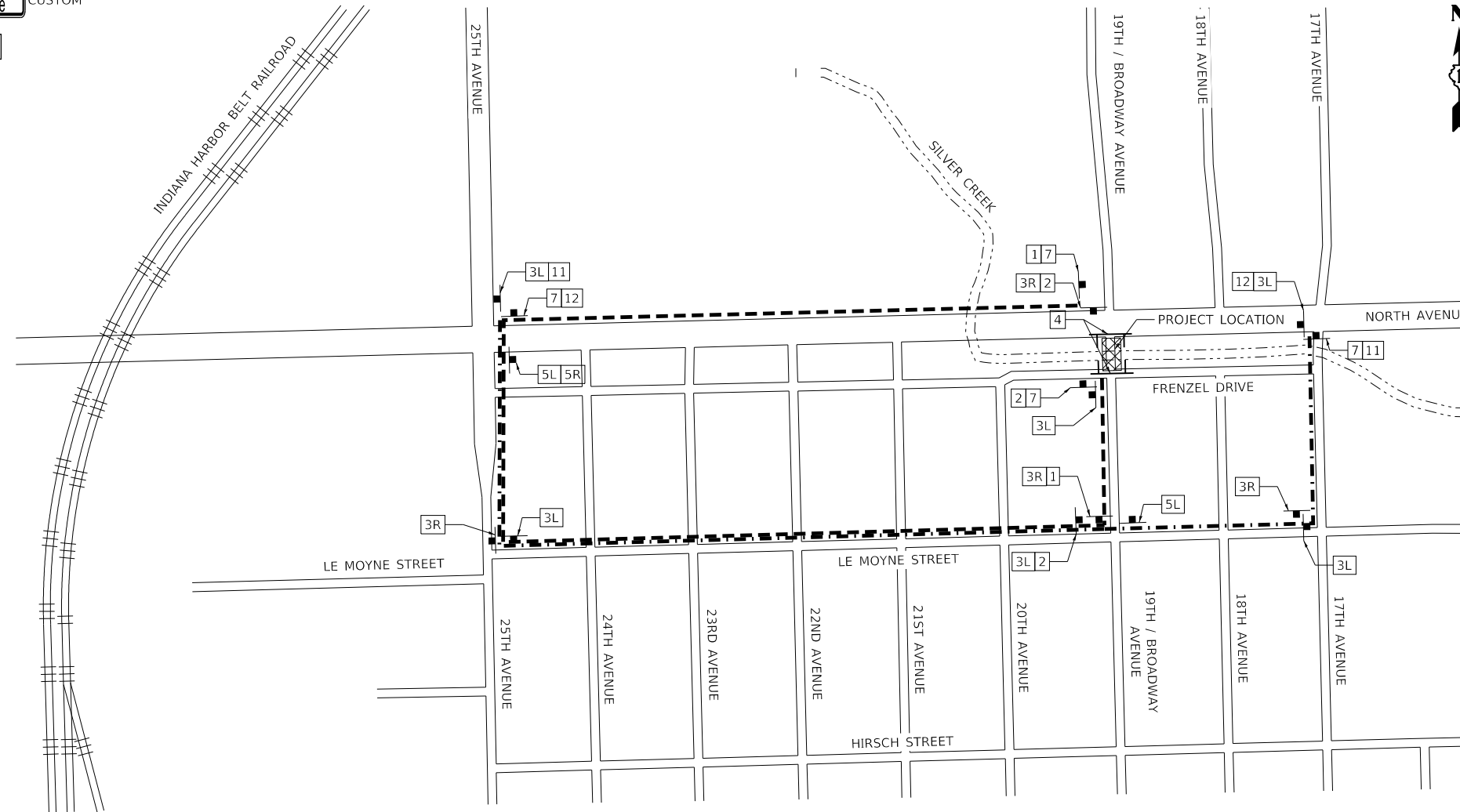
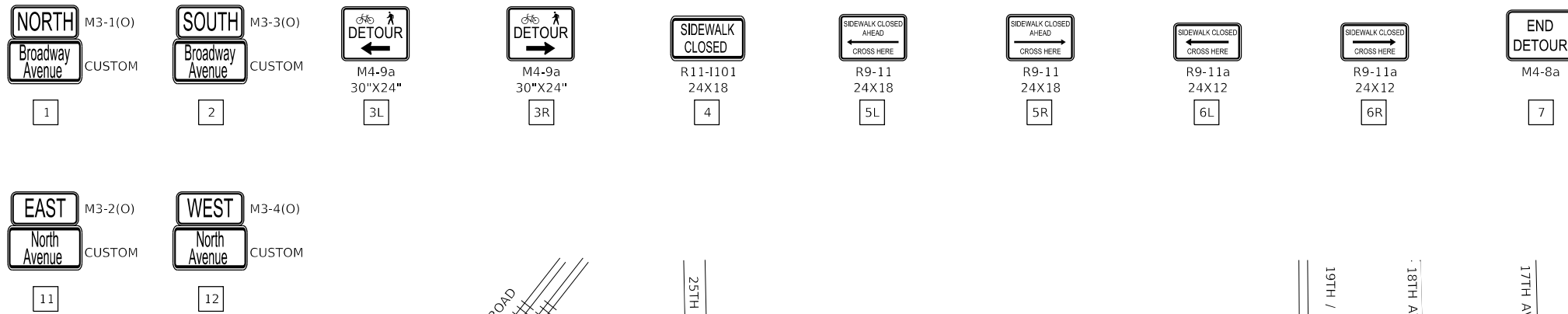
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PLOT SCALE = 20.0000' / in.	CHECKED - EPS	REVISED -
PLOT DATE = 2/15/2023	DATE - 1/16/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
FRENZEL DRIVE DETOUR**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 25
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



LEGEND	
	PROPOSED BROADWAY AVE PEDESTRIAN DETOUR ROUTE (1.0 MILE)
	PROPOSED NORTH AVE PEDESTRIAN DETOUR ROUTE (0.7 MILE)
	DETOUR SIGN POST-MOUNTED PER ARTICLE 701.14 AND HIGHWAY STANDARD 701901
	TYPE III BARRICADE WITH FLASHERS
	ROAD COMPLETELY CLOSED TO THRU TRAFFIC

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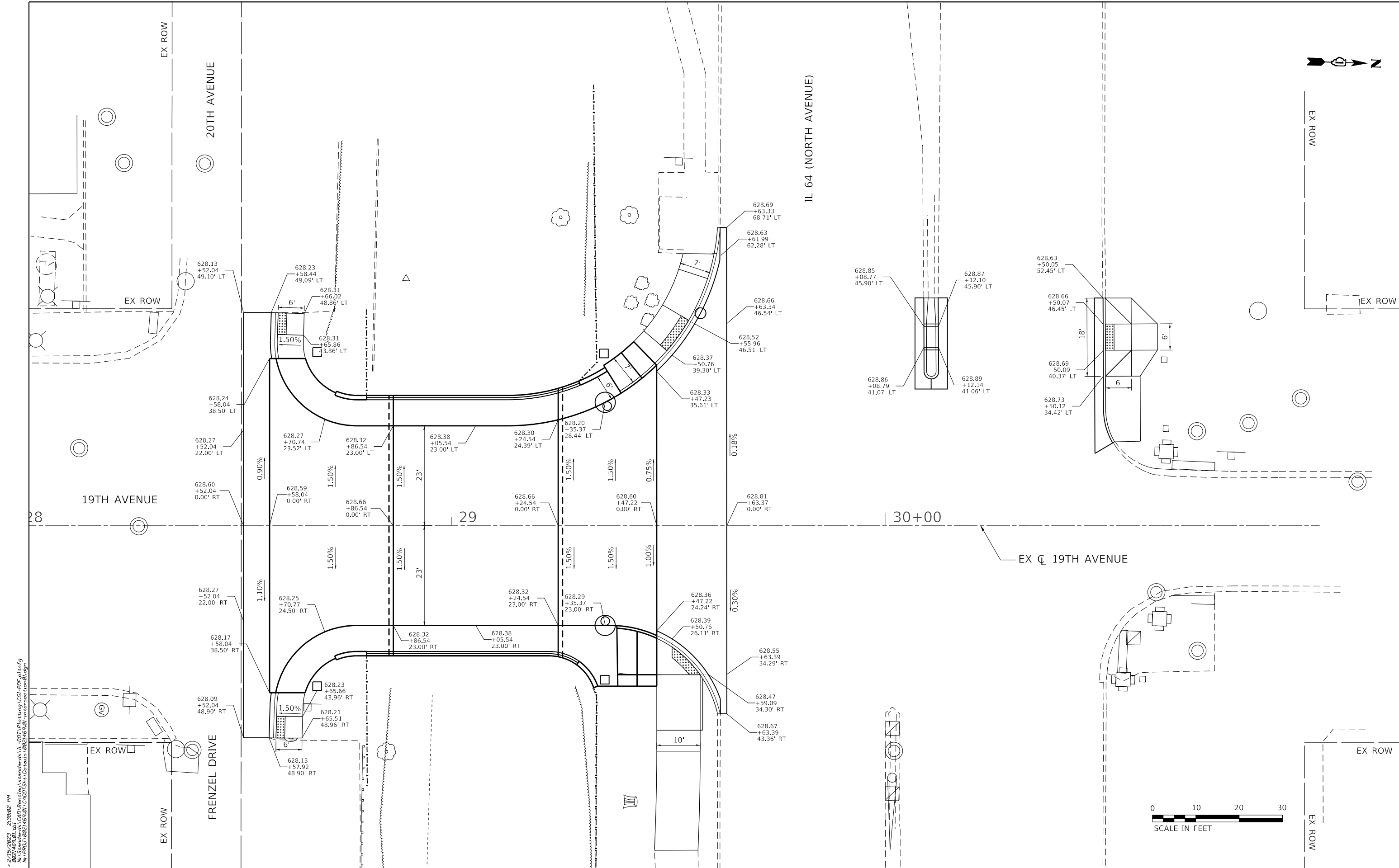


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PLOT DATE = 2/15/2023	DATE - 1/16/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT NORTH AVENUE MULTI-USE PATH DETOUR			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 26
CONTRACT NO. 61J48				ILLINOIS FED. AID PROJECT



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PLOT DATE = 2/15/2023	CHECKED - JMV	REVISED -
	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
INTERSECTION DETAILS

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. R.T.E. = 2406	SECTION = 16-00131-00-BR	COUNTY = COOK	TOTAL SHEETS = 102	SHEET NO. = 27
				CONTRACT NO. = 61J48
ILLINOIS FED. AID PROJECT				

ONLY

POINT	STATION	OFFSET	SIDE	ELEVATION
A	29+56.76	0.00	LT	628.72
B	29+50.76	0.00	LT	628.60
C	29+60.44	62.59	LT	629.04
D	29+61.76	61.19	LT	628.60
E	29+54.96	47.32	LT	628.51
F	29+55.96	46.51	LT	628.52
G	29+56.76	40.51	LT	628.44
H	29+49.57	40.33	LT	628.36
I	29+50.76	39.30	LT	628.37
J	29+43.48	34.42	LT	628.72
K	29+39.03	30.53	LT	628.18
L	29+38.73	31.02	LT	628.68
M	29+35.00	36.94	LT	628.78
N	29+39.06	39.86	LT	628.82
O	29+44.27	44.91	LT	628.47
P	29+48.57	50.89	LT	628.58
Q	29+52.30	59.10	LT	628.85
R	29+53.30	62.71	LT	628.90
S	29+58.95	56.93	LT	628.95
T	30+08.77	46.48	LT	628.85
U	30+08.80	40.48	LT	628.86

POINT	STATION	OFFSET	SIDE	ELEVATION
AA	29+47.23	24.24	RT	628.36
BB	29+47.23	25.98	RT	628.35
CC	29+42.71	24.37	RT	628.68
DD	29+42.71	34.36	RT	628.83
EE	29+47.23	34.36	RT	628.50
FF	29+47.23	47.16	RT	628.81
GG	29+57.23	47.16	RT	628.66
HH	29+61.23	43.37	RT	628.85
II	29+63.42	43.36	RT	628.53
JJ	29+59.11	34.32	RT	628.47
KK	29+57.23	34.36	RT	628.46
LL	29+57.23	52.16	RT	628.73
MM	29+47.23	52.16	RT	628.88
NN	29+38.03	23.63	RT	628.75
OO	29+38.21	34.36	RT	628.91
PP	29+56.76	24.30	RT	628.50
QQ	29+50.76	-26.11	RT	628.39

IL 64
(NORTH AVENUE)

30+00

19TH AVENUE

LEGEND

	PROPOSED SIDE CURB
	EXISTING ELEVATION / SLOPE
	PROPOSED SIDEWALK RAMP
	DETECTABLE WARNINGS

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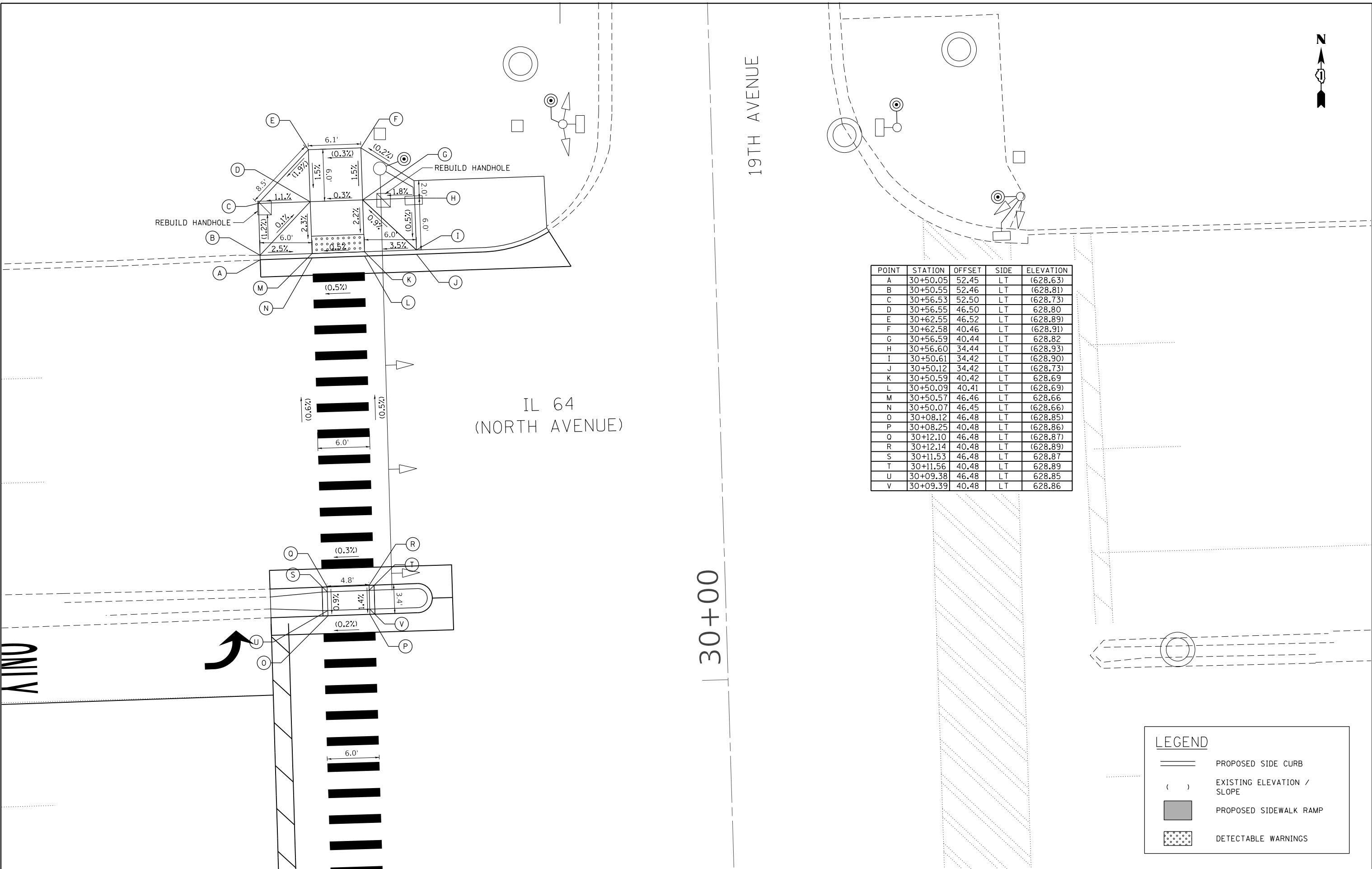
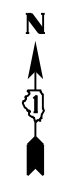
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	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
ADA RAMP DETAILS

SCALE: 1" = 5' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	28
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



POINT	STATION	OFFSET	SIDE	ELEVATION
A	30+50.05	52.45	LT	(628.63)
B	30+50.55	52.46	LT	(628.81)
C	30+56.53	52.50	LT	(628.73)
D	30+56.55	46.50	LT	628.80
E	30+62.55	46.52	LT	(628.89)
F	30+62.58	40.46	LT	(628.91)
G	30+56.59	40.44	LT	628.82
H	30+56.60	34.44	LT	(628.93)
I	30+50.61	34.42	LT	(628.90)
J	30+50.12	34.42	LT	(628.73)
K	30+50.59	40.42	LT	628.69
L	30+50.09	40.41	LT	(628.69)
M	30+50.57	46.46	LT	628.66
N	30+50.07	46.45	LT	(628.66)
O	30+08.12	46.48	LT	(628.85)
P	30+08.25	40.48	LT	(628.86)
Q	30+12.10	46.48	LT	(628.87)
R	30+12.14	40.48	LT	(628.89)
S	30+11.53	46.48	LT	628.87
T	30+11.56	40.48	LT	628.89
U	30+09.38	46.48	LT	628.85
V	30+09.39	40.48	LT	628.86

LEGEND			
	PROPOSED SIDE CURB		
	EXISTING ELEVATION / SLOPE		
	PROPOSED SIDEWALK RAMP		
	DETECTABLE WARNINGS		

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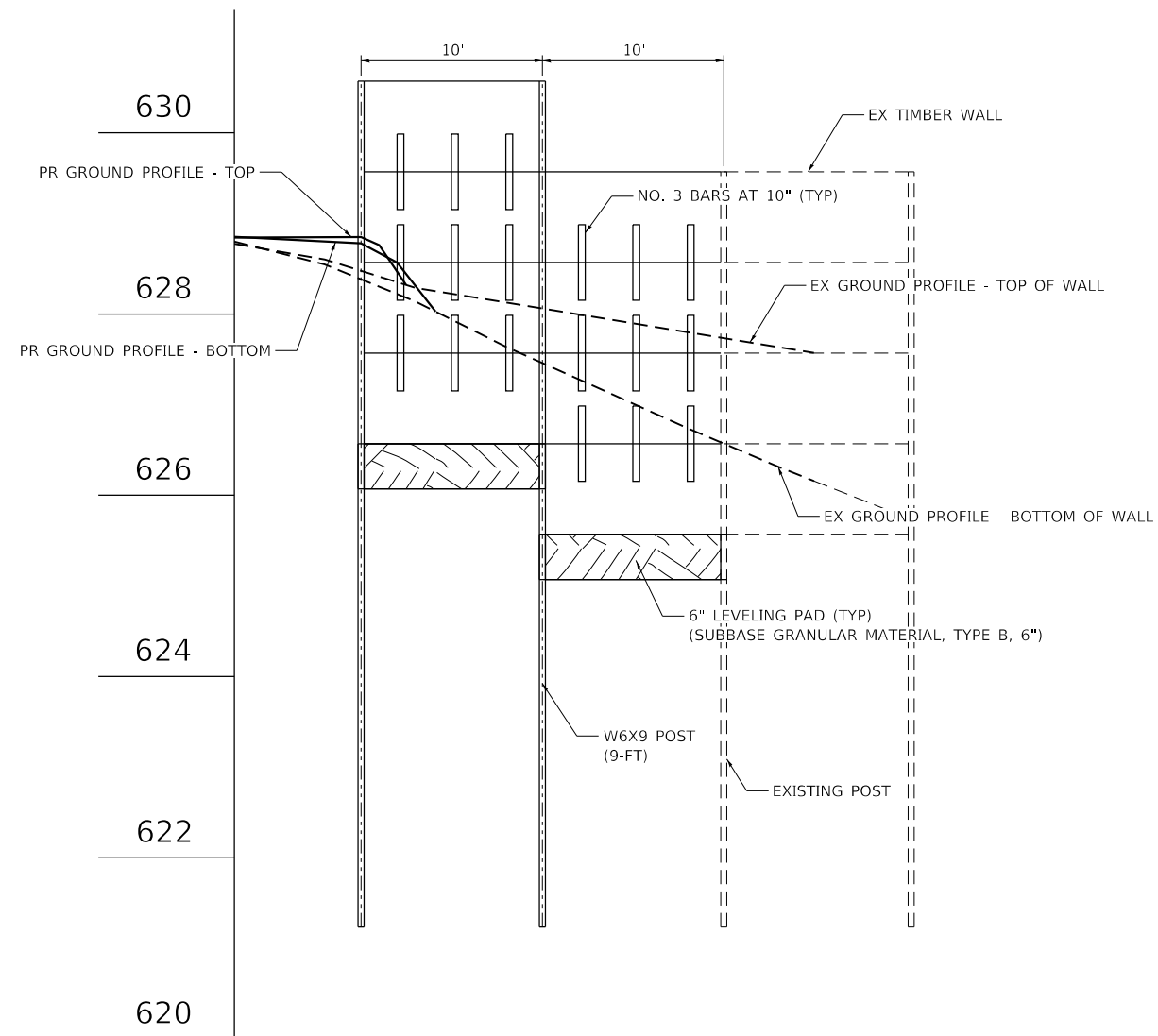


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT ADA RAMP DETAILS			
SCALE: 1" = 5'	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 29
			CONTRACT NO. 61J48	
ILLINOIS FED. AID PROJECT				



TIMBER RETAINING WALL DETAIL

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
TIMBER WALL DETAIL**

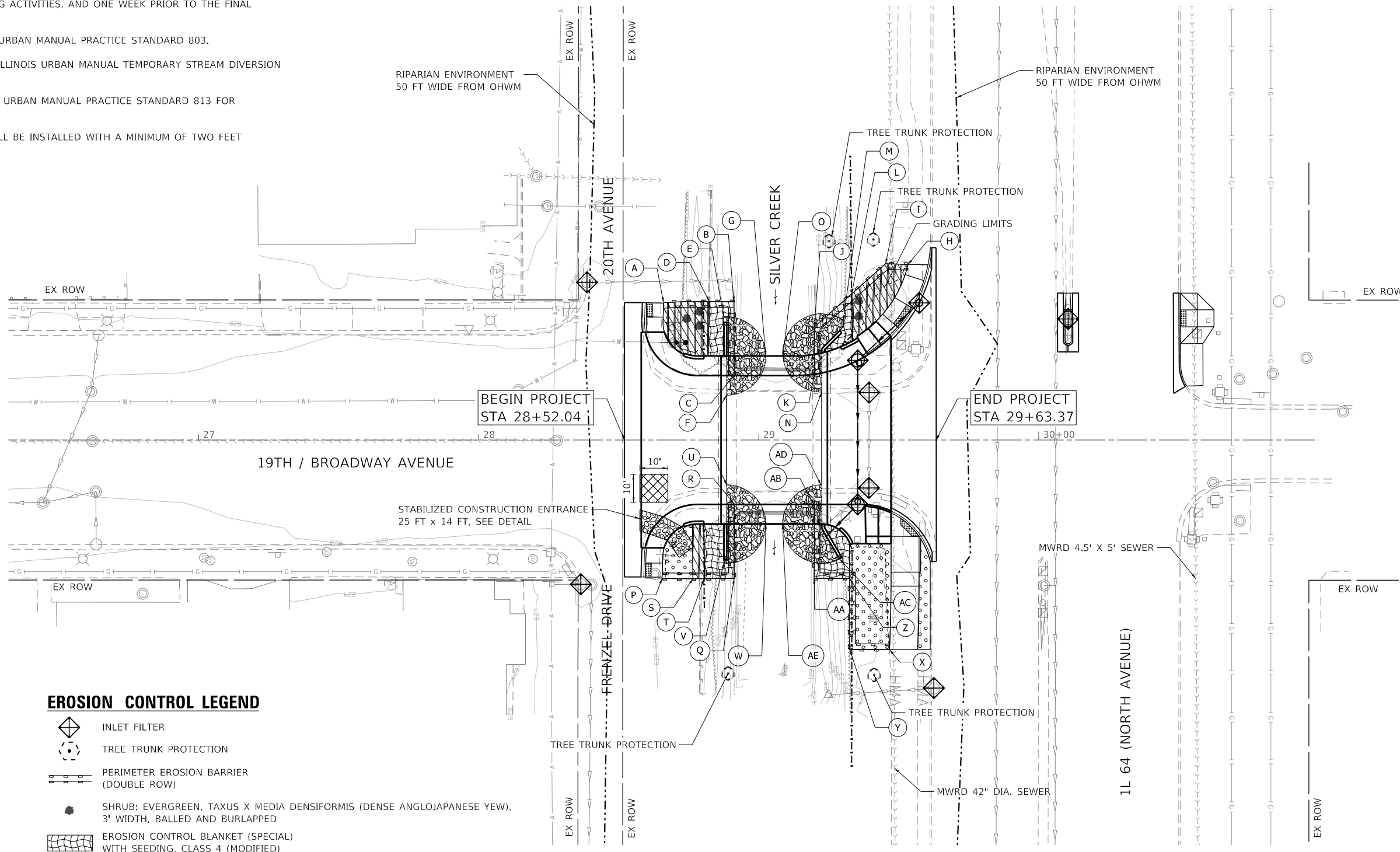
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	30
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	

NOTES:

- SEEDING AREA AND MULCH AREA SHALL INCLUDE TEMPORARY SEEDING, TEMPORARY EROSION CONTROL BLANKET, AND TOPSOIL FURNISH AND PLACE, 6".
- CONTRACTOR SHALL PROVIDE AN IN-STREAM WORK PLAN FOR REVIEW BY THE RESIDENT ENGINEER AND WRITTEN APPROVAL BY USACE, MWRD, AND NORTH COOK COUNTY SWCD.
- THE NORTH COOK COUNTY SWCD MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ALL COFFERDAM PROCEDURES WILL FOLLOW THE ILLINOIS URBAN MANUAL PRACTICE STANDARD 803.
- THE IN-STREAM WORK PLAN SHALL HAVE THE APPLICABLE ILLINOIS URBAN MANUAL TEMPORARY STREAM DIVERSION DRAWING INCLUDED.
- ALL DEWATERING PROCEDURES WILL FOLLOW THE ILLINOIS URBAN MANUAL PRACTICE STANDARD 813 FOR DEWATERING.
- DOUBLE ROW PERIMETER EROSION CONTROL BARRIER SHALL BE INSTALLED WITH A MINIMUM OF TWO FEET OFFSET BETWEEN ROWS.

POINT	STATION	OFFSET	SIDE	DESCRIPTION
A	28+66.0	49.1	LT	P.E.B.
B	28+91.2	49.4	LT	P.E.B.
C	28+91.2	23.0	LT	P.E.B.
D	28+82.4	49.4	LT	SEEDING, CLASS 4 MOD
E	28+87.5	44.0	LT	RIPRAP, 14' RADIUS
F	28+88.5	16.0	LT	RIPRAP, 14' RADIUS
G	29+02.5	30.0	LT	RIPRAP, 14' RADIUS
H	29+53.3	62.7	LT	P.E.B.
I	29+45.3	63.0	LT	P.E.B.
J	29+19.9	40.4	LT	P.E.B.
K	29+19.9	23.5	LT	P.E.B.
L	29+33.2	52.2	LT	SEEDING, CLASS 4 MOD
M	29+30.2	42.8	LT	RIPRAP, 14' RADIUS
N	29+22.5	17.1	LT	RIPRAP, 14' RADIUS
O	29+08.7	30.0	LT	RIPRAP, 14' RADIUS
P	28+65.5	49.4	RT	P.E.B.
Q	28+91.2	49.4	RT	P.E.B.
R	28+91.2	23.0	RT	P.E.B.
S	28+76.5	49.5	RT	SHREDDED BARK MULCH
T	28+80.5	49.5	RT	SEEDING, CLASS 4 MOD
U	28+88.5	16.0	RT	RIPRAP, 14' RADIUS
V	28+87.6	44.0	RT	RIPRAP, 14' RADIUS
W	29+02.5	30.0	RT	RIPRAP, 14' RADIUS
X	29+46.7	74.8	RT	P.E.B.
Y	29+32.5	74.8	RT	P.E.B.
Z	29+32.5	49.4	RT	PEB / SEEDING, CLASS 4 MOD
AA	29+19.9	49.4	RT	P.E.B.
AB	29+19.9	23.0	RT	P.E.B.
AC	29+28.8	42.4	RT	RIPRAP, 14' RADIUS
AD	29+22.5	16.0	RT	RIPRAP, 14' RADIUS
AE	29+08.5	30.0	RT	RIPRAP, 14' RADIUS
SH1	28+74.3	43.4	LT	SHRUB
SH2	28+78.8	40.9	LT	SHRUB
SH3	28+78.8	45.9	LT	SHRUB
SH4	29+35.7	44.2	LT	SHRUB
SH5	29+35.7	49.7	LT	SHRUB



EROSION CONTROL LEGEND

- INLET FILTER
- TREE TRUNK PROTECTION
- PERIMETER EROSION BARRIER (DOUBLE ROW)
- SHRUB: EVERGREEN, TAXUS X MEDIA DENSIFORMIS (DENSE ANGLIJAPANESE YEW), 3' WIDTH, BALLED AND BURLAPPED
- EROSION CONTROL BLANKET (SPECIAL) WITH SEEDING, CLASS 4 (MODIFIED)
- EROSION CONTROL BLANKET (SPECIAL) WITH SEEDING, CLASS 2A
- RIPRAP CLASS A4, WITH FILTER FABRIC
- TEMPORARY CONCRETE WASHOUT BASIN
-



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

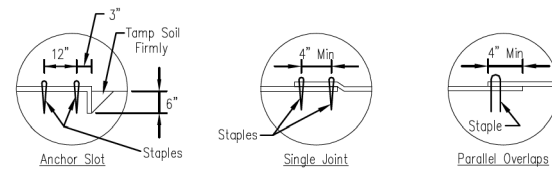
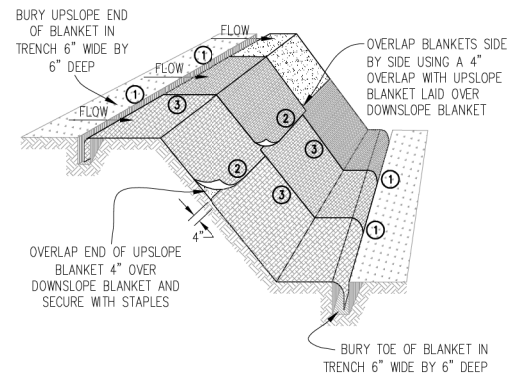
**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 25+25.00 TO STA. 31+00.00

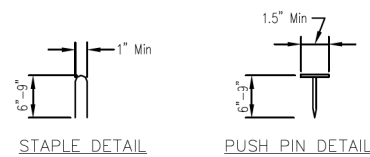
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CONTRACT NO. 61J48				

ILLINOIS FED. AID PROJECT

AUTOCAD2006



DETAIL 1 DETAIL 2 DETAIL 3



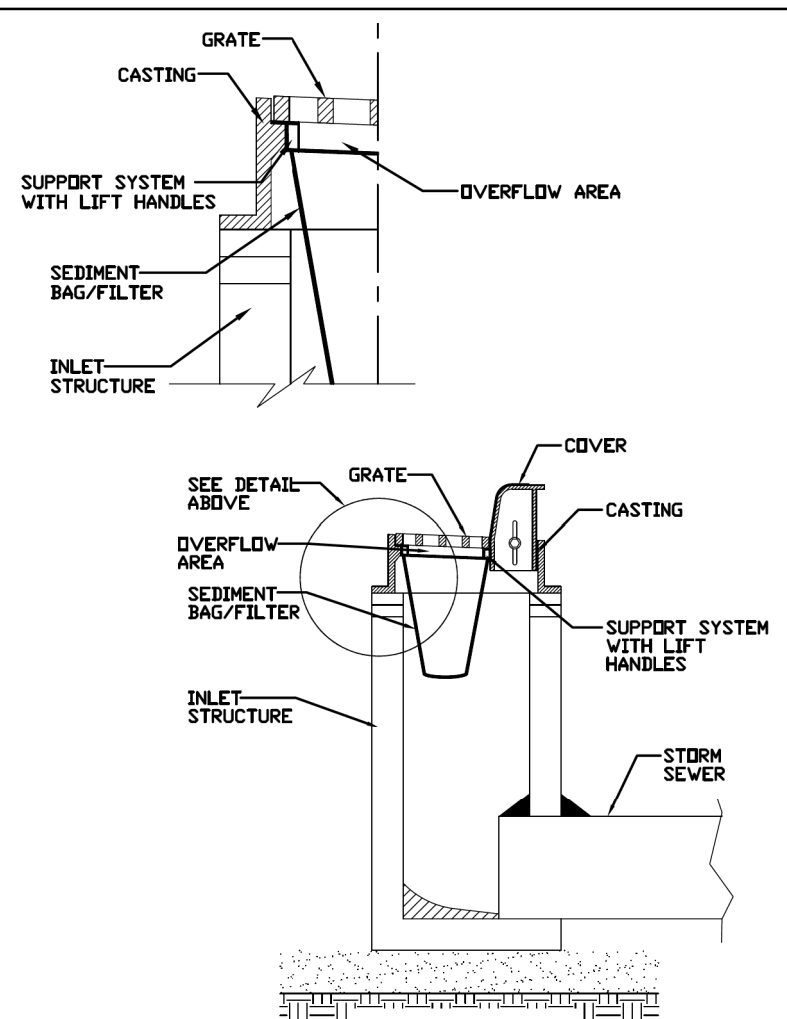
NOTES:

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

EROSION CONTROL
BLANKET INSTALLATION DETAILS

Designed	JS	Date	11/28
Drawn	JS		
Checked	ARH		
Approved			

INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION

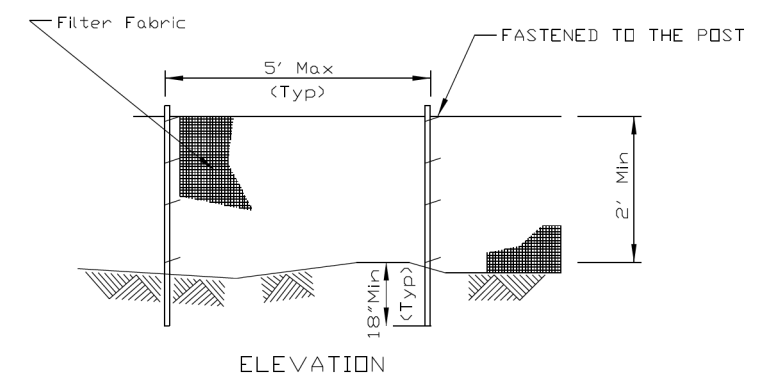


REFERENCE	Project	Date
Designed		
Checked		
Approved		

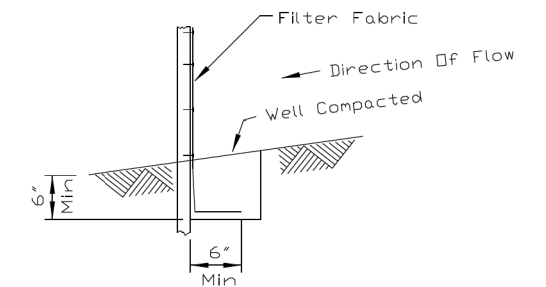


STANDARD DWG. NO.	IUM-561D
SHEET	1 OF 1
DATE	01-11-11

SILT FENCE PLAN



ELEVATION



FABRIC ANCHOR DETAIL

NOTES:

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

REFERENCE	Project	Date
Designed		
Checked		
Approved		



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

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	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

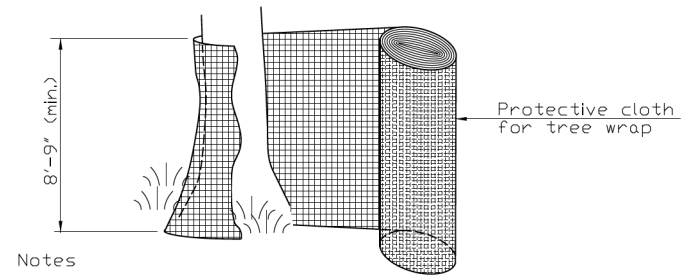
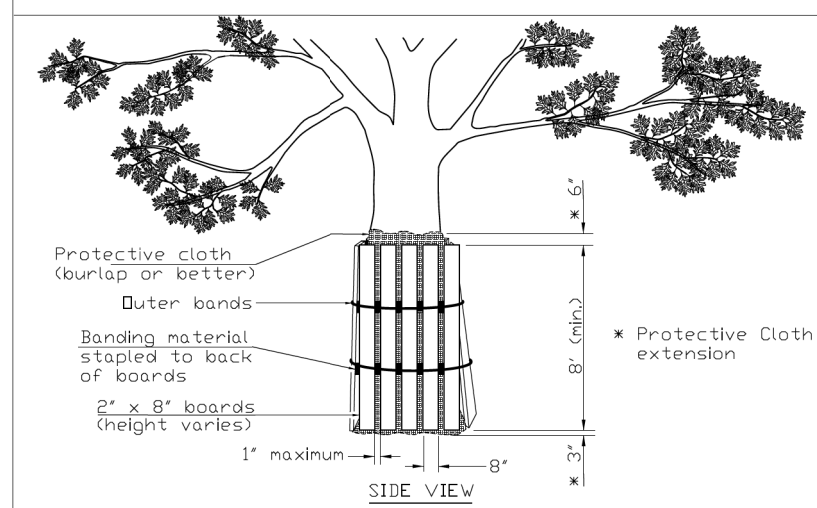
BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
EROSION CONTROL AND LANDSCAPING DETAILS

SCALE: 1" = 20' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	32
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

LANDSCAPING DETAILS

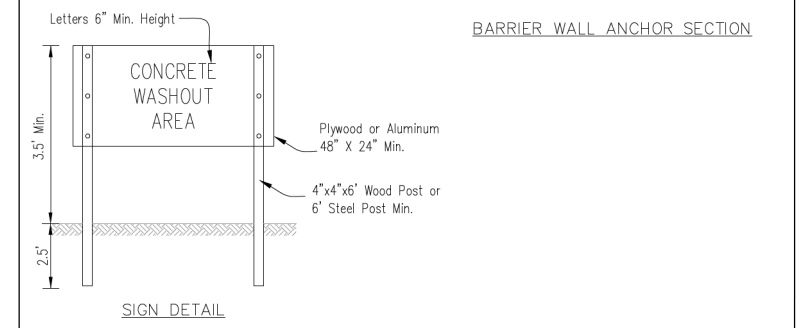
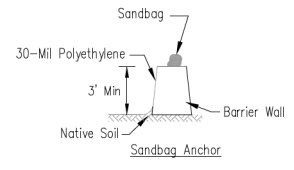
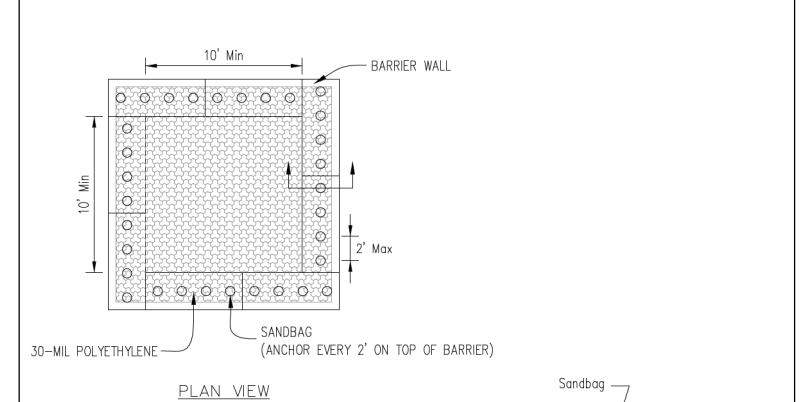
TREE TRUNK PROTECTION



- Notes
- The contractor shall provide 2" x 8" boards banded continuously around each trunk with a protective cloth (such as burlap or better) placed between the boards and the tree to prevent scarring of the tree being protected. The height of the boards is variable due to height of tree being protected. Trees to be protected shall be shown in the plans or designated by the Professional Forester or Certified Arborist.
 - The protective cloth shall extend past both the top and bottom of the boards as shown in the detail. Width of wrap material varies. For fabric that does not meet the required height, fabric shall overlap a minimum of 6" and shall be spliced to avoid slippage.

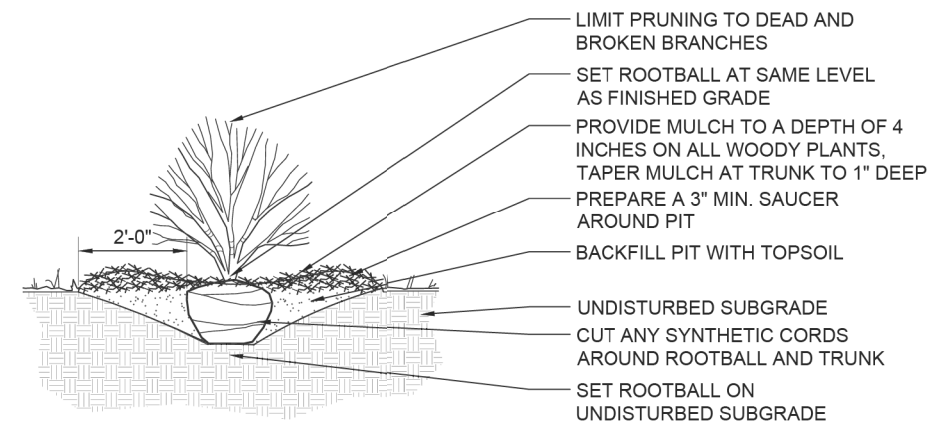
REFERENCE	STANDARD DWG. NO.
Project _____	IUM-690-C
Designed _____ Date _____	SHEET 1 OF 1
Checked _____ Date _____	DATE 09-14-2017
Approved _____ Date _____	

AUTOCAD2006



- NOTES:
- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
 - Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

DESIGNED	DATE	DESIGNED	DATE
Drawn S. JOHNSON	6/08	Checked	
Approved		Approved	



SHRUB PLANTING

NTS D-SHRUB

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

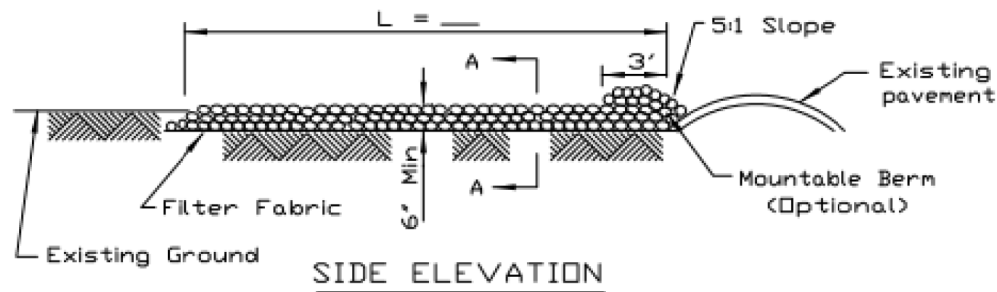
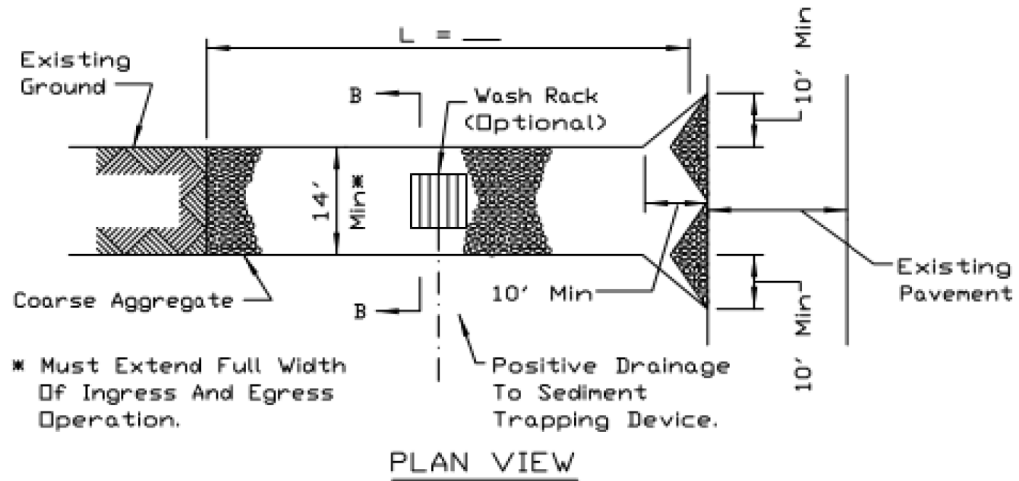
BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
EROSION CONTROL AND LANDSCAPING DETAILS

SCALE: 1" = 20' SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	33
CONTRACT NO.			61J48	

ILLINOIS FED. AID PROJECT

STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:

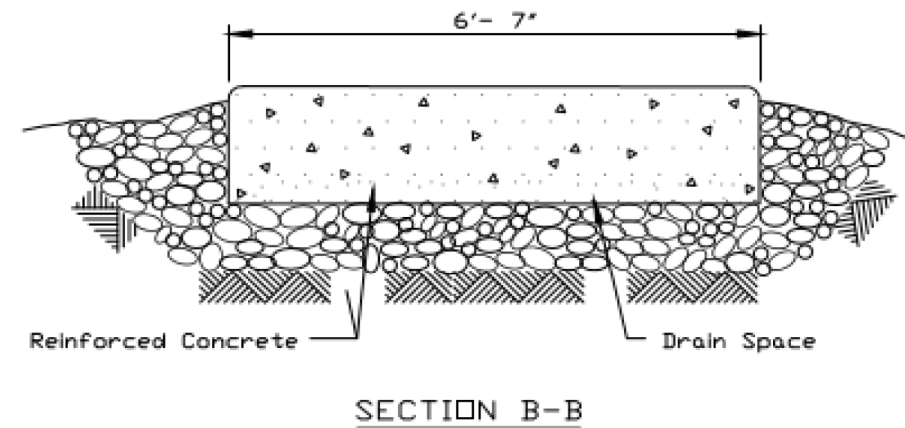
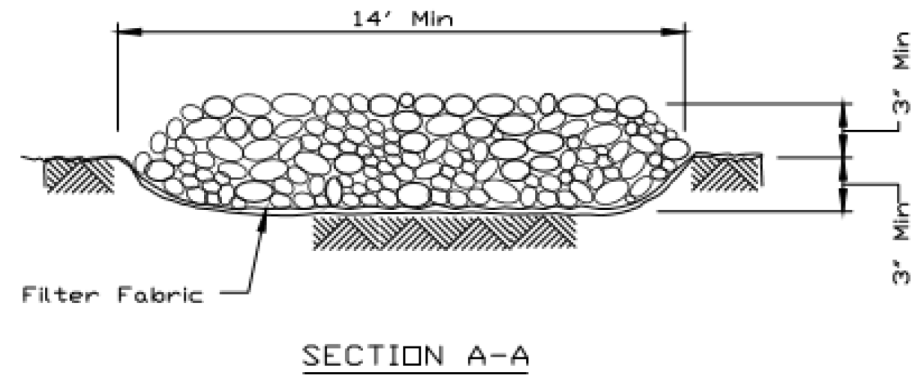
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

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



STANDARD DWG. NO.
IL-630
SHEET 1 OF 2
DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



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



STANDARD DWG. NO.
IL-630
SHEET 2 OF 2
DATE 8-18-94

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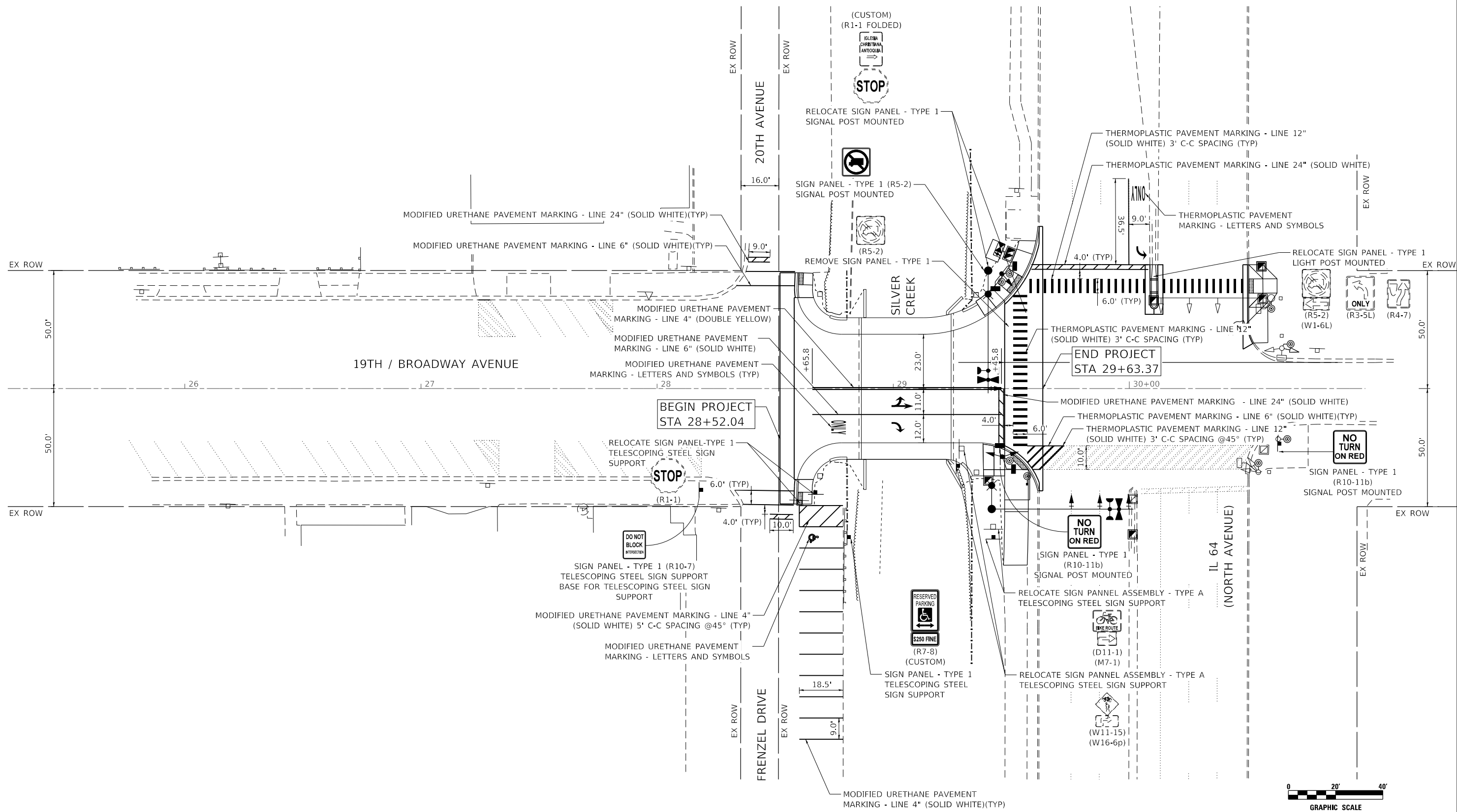
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
EROSION CONTROL AND LANDSCAPING DETAILS

SCALE: 1" = 20' SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	34
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
PAVEMENT MARKING AND SIGNING PLAN**

SCALE: 1" = 80' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RT.E. = 2406	SECTION = 16-00131-00-BR	COUNTY = COOK	TOTAL SHEETS = 102	SHEET NO. = 36
CONTRACT NO. 61J48				ILLINOIS FED. AID PROJECT

BENCH MARK:

Chisled "X" on top of curb near southeast corner of bank parking lot and approximately 330' south of the bridge along the west side of Broadway Avenue Elev. 627.67.

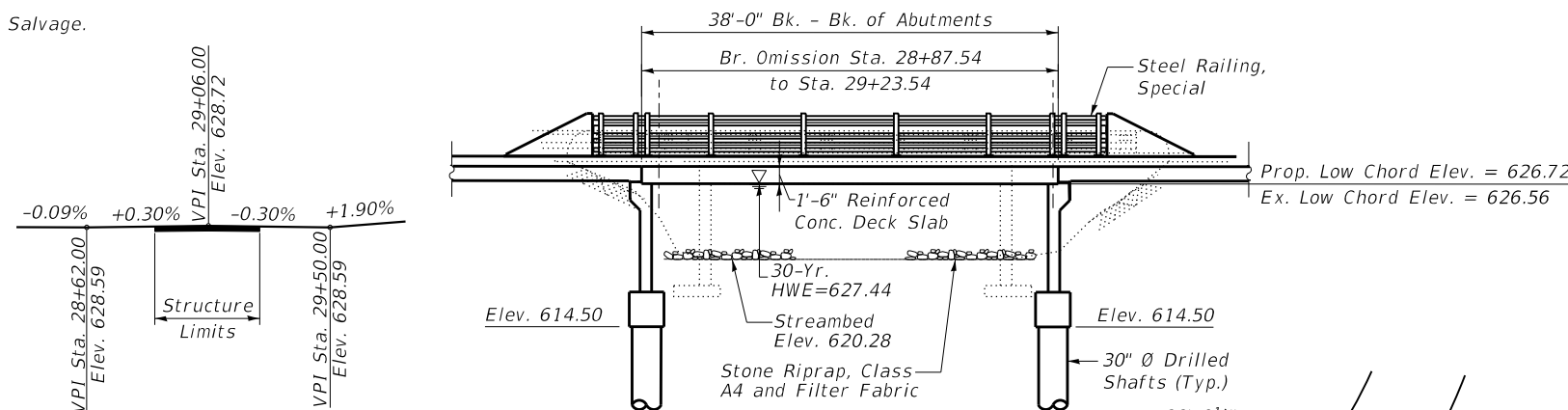
EXISTING STRUCTURE:

S.N. 016-7477, single span ±29'-0" bk. to bk. abutments, 50'-0" o. to o. R.C. slab bridge on closed abutments. Built in 1949 under an unknown contract. The bridge shall be removed and replaced with a single span R.C. slab superstructure on closed abutments. Roadway traffic will be detoured during construction.

No Salvage.

WATERWAY INFORMATION TABLE

Drainage Area = 10.3 sq. mi.		Exist. Overtopping Elev. = 628.39 at Sta. 29+19.50		Prop. Overtopping Elev. = 628.59 at Sta. 29+50.00					
Flood Event	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head -Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
10-YR	10	443	135.47	145.46	626.46	0.02	0.04	626.48	626.47
Design	30	577	137.07	147.87	627.24	0.22	0.20	627.46	627.44
Base	100	802	137.07	147.87	628.42	0.69	0.54	629.11	628.96
Overtop. Exist.	60	720	137.07	N/A	628.02	0.37	N/A	628.39	N/A
Overtop. Prop.	73	760	N/A	147.87	628.16	N/A	0.43	N/A	628.59
Max. Calc.	500	1075	438.28	439.04	629.81	0.14	0.12	629.95	629.93



DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	614.5	614.5	5
Q200	614.5	614.5	
Design	614.5	614.5	
Check	614.5	614.5	

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL 93

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

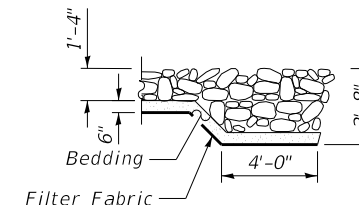
DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

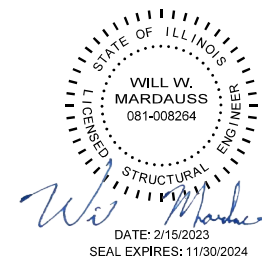
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.071g
Design Spectral Acceleration at 0.2 sec. (SD0.2) = 0.113g
Soil Site Class = C



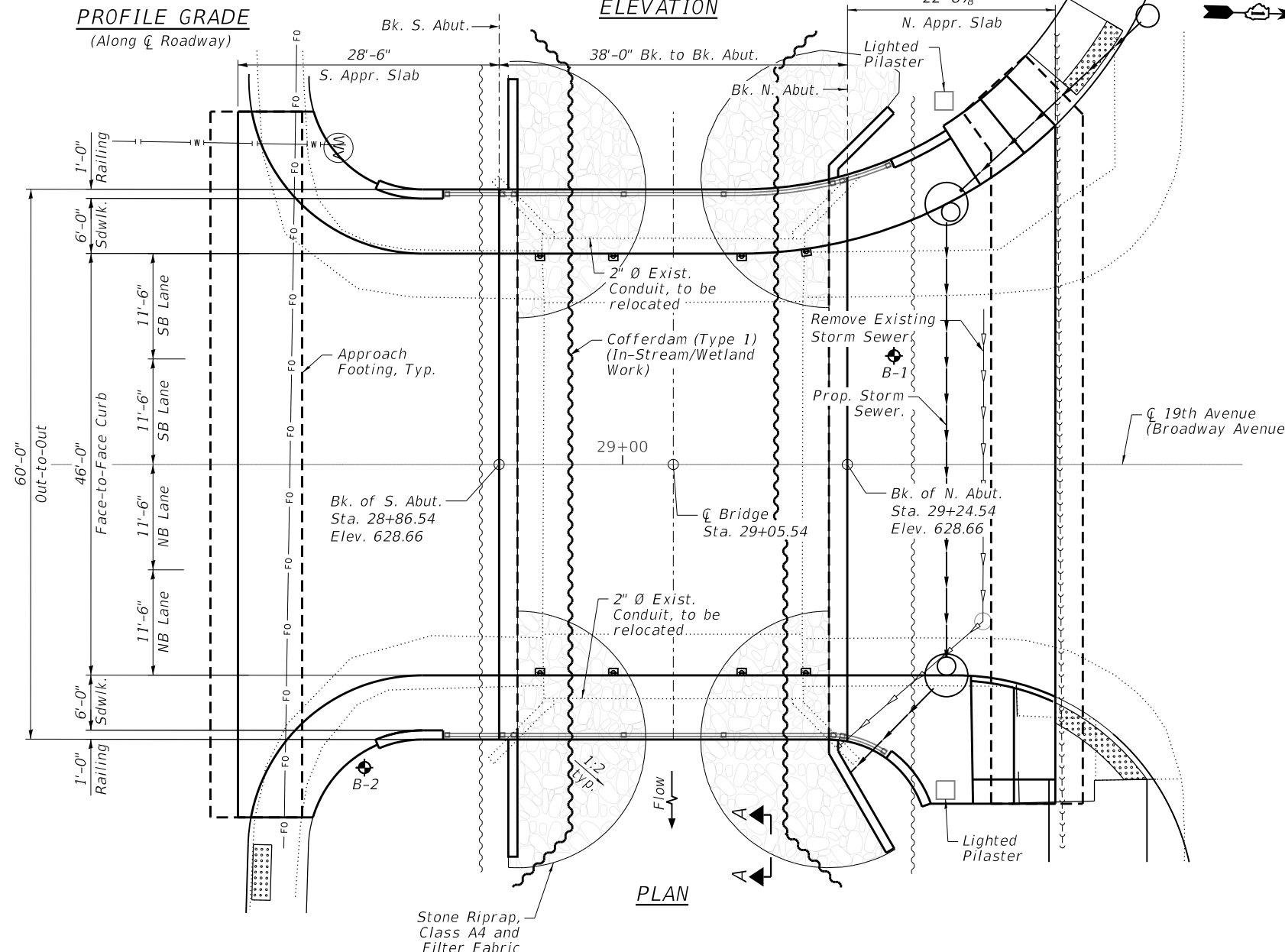
SECTION A-A

LEGEND

- Existing Underground Sanitary Sewer
- FO --- Existing Underground Fiber Optics
- ~ ~ ~ ~ ~ Cofferdam (Type 1) (In-Stream/Wetland Work)
- ~ ~ ~ ~ ~ Temporary Soil Retention System
- Proposed Storm Sewer
- Existing Storm Sewer
- ⊙ Proposed Storm Sewer Structure
- ⊙ Proposed Storm Sewer
- ⊙ Soil Borings



I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the "AASHTO LRFD Bridge Design Specifications," 9th Ed. 2020.



PLAN

GENERAL PLAN & ELEVATION
BROADWAY AVENUE (19th AVENUE) OVER SILVER CREEK
F.A.U. RTE. 2406
COOK COUNTY
STATION 29+05.54
STRUCTURE NO. 016-7483

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 5-01 OF 5-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	37
CONTRACT NO.			61J48	

ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. 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.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
4. Work in the waterway shall be timed to take place during low flow conditions. An In-stream work plan is to be submitted by Contractor for USACE and SWCD approval prior to start of work.
5. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
6. Existing Cast-In-Place Concrete Slab is in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing removal procedures.
Inventory Rating (HS20) = 0.620(22)
Operating Rating (HS20) = 1.030(37)

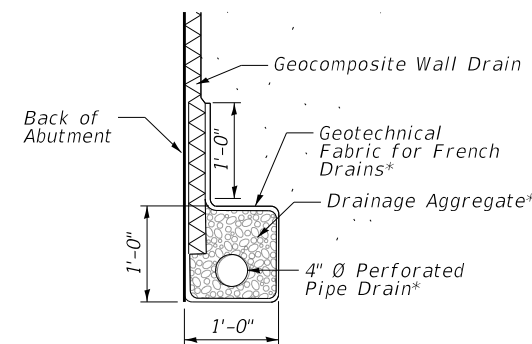
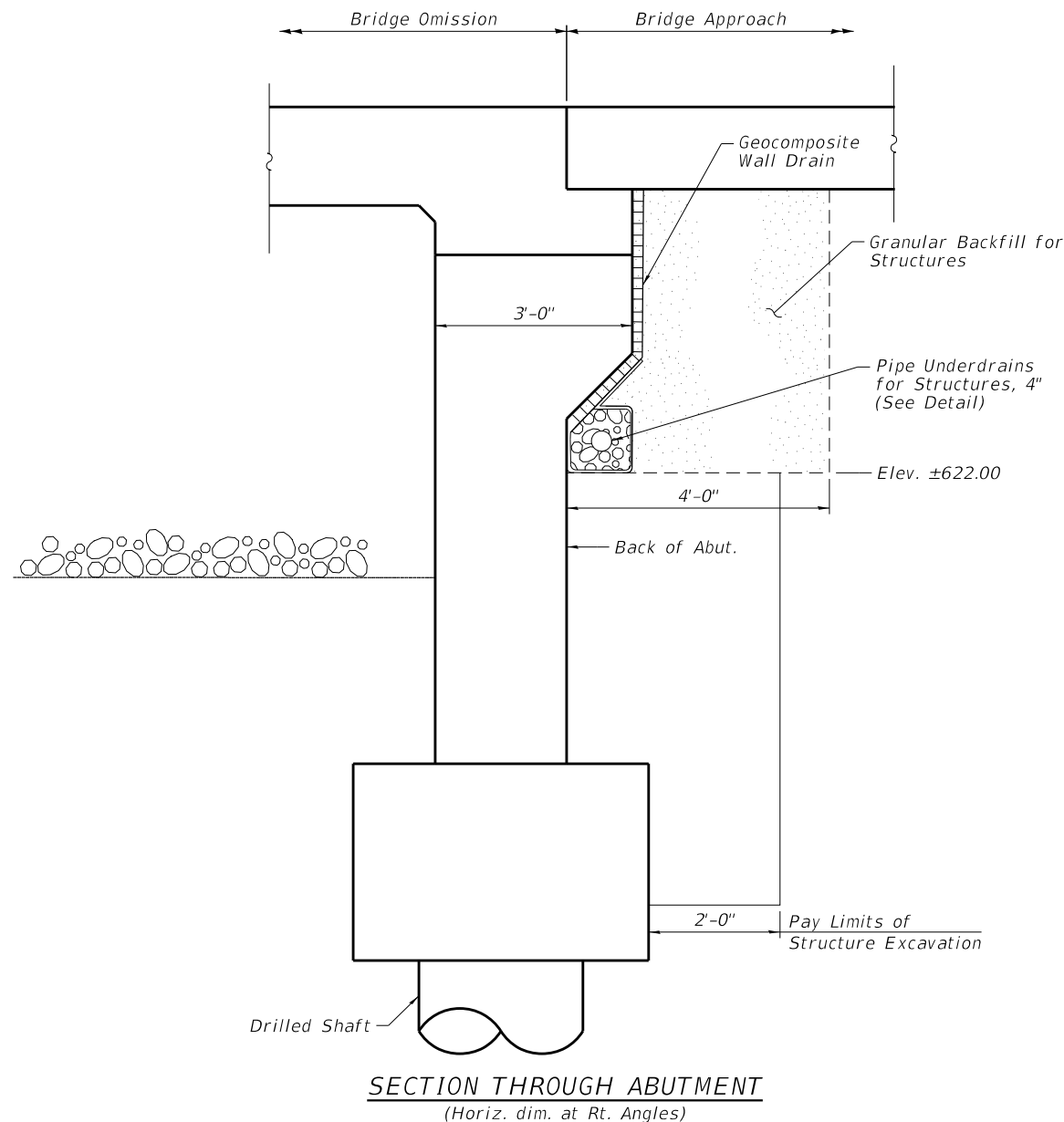
INDEX OF SHEETS

- S-01 General Plan & Elevation
- S-02 General Notes, Bill of Material & Index of Sheets
- S-03 Temporary Soil Retention System Details
- S-04 Removal Plan
- S-05 Foundation Plan
- S-06 Top of Slab Elevations
- S-07 Top of South Approach Slab Elevations
- S-08 Top of North Approach Slab Elevations
- S-09 Superstructure Plan and Cross Section
- S-10 Superstructure Details
- S-11 Steel Railing Special
- S-12 Railing Bolster Details I
- S-13 Railing Bolster Details II
- S-14 South Approach Slab Details
- S-15 North Approach Slab Details
- S-16 Bridge Approach Slab Details
- S-17 Approach Slab Sidewalk Details
- S-18 S Abutment Details I
- S-19 S Abutment Details II
- S-20 N Abutment Details I
- S-21 N Abutment Details II
- S-22 South Wingwalls
- S-23 North Wingwalls
- S-24 Wingwall Details
- S-25 Drilled Shaft Details
- S-26 Boring Log I
- S-27 Boring Log II
- S-28 Boring Log III

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SP	SUB	SUPER	TOTAL
Stone Riprap, Class A4	Sq Yd		187		187
Filter Fabric	Sq Yd		187		187
Removal Of Existing Structures	Each			1	1
Structure Excavation	Cu Yd		465		465
Cofferdam Excavation	Cu Yd		176		176
Floor Drains	Each			8	8
Concrete Structures	Cu Yd		232.0		232.0
Concrete Superstructure	Cu Yd			181.2	181.2
Bridge Deck Grooving	Sq Yd			495	495
Form Liner Textured Surface	Sq Ft			8	8
Protective Coat	Sq Yd			675	675
Concrete Superstructure (Approach Slab)	Cu Yd			166.8	166.8
Reinforcement Bars	Pound		20,520		20,520
Reinforcement Bars, Epoxy Coated	Pound		36,250	123,500	159,750
Name Plates	Each			1	1
Drilled Shaft In Soil	Cu Yd		73		73
Temporary Soil Retention System	Sq Ft		2,789		2,789
Granular Backfill For Structures	Cu Yd		108		108
Geocomposite Wall Drain	Sq Yd		99		99
Pipe Underdrains For Structures 4"	Foot		172		172
Steel Railing (Special)	Foot	*		100	100
Crosshole Sonic Logging Access Ducts	Foot	*	1,188		1,188
Crosshole Sonic Logging Testing	Each	*	4		4
Cofferdam (Type 1) (In-Stream/Wetland Work)	Each	*	2		2
Staining Concrete Structures	Sq Ft	*		8	8

** Special Provision



PIPE UNDERDRAIN DETAIL

* Included in the cost of Pipe Underdrains for Structures

STATION 29+05.54
BUILT BY
STATE OF ILLINOIS
LOADING HL-93
STRUCTURE NO. 016-7483

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See Std. 515001

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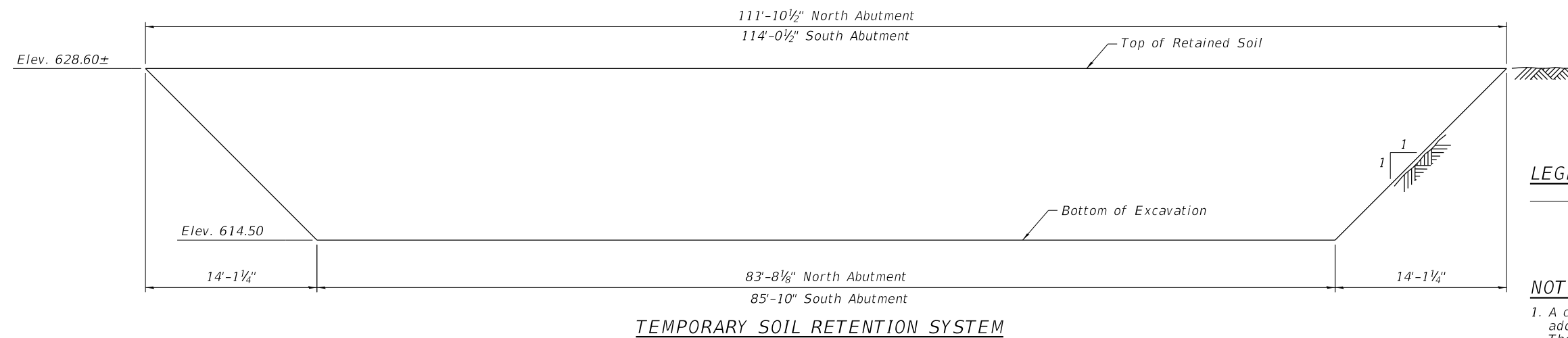
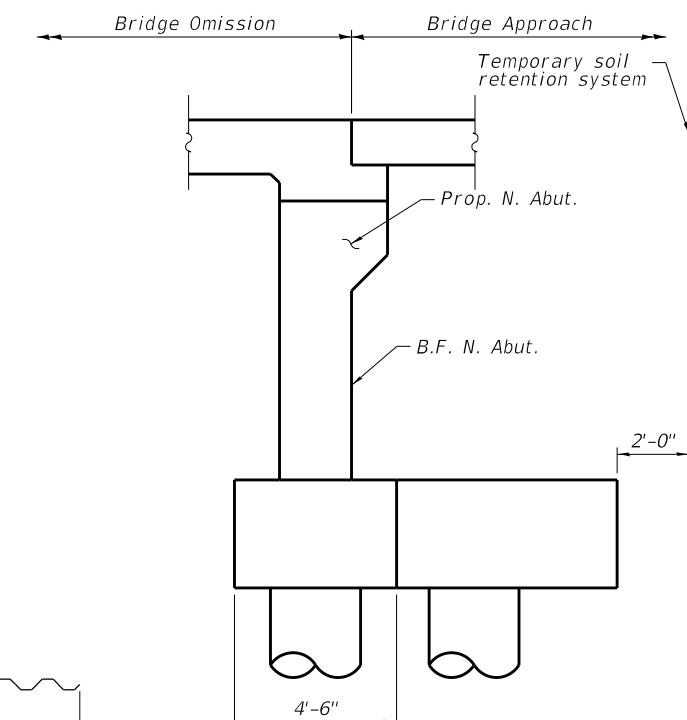
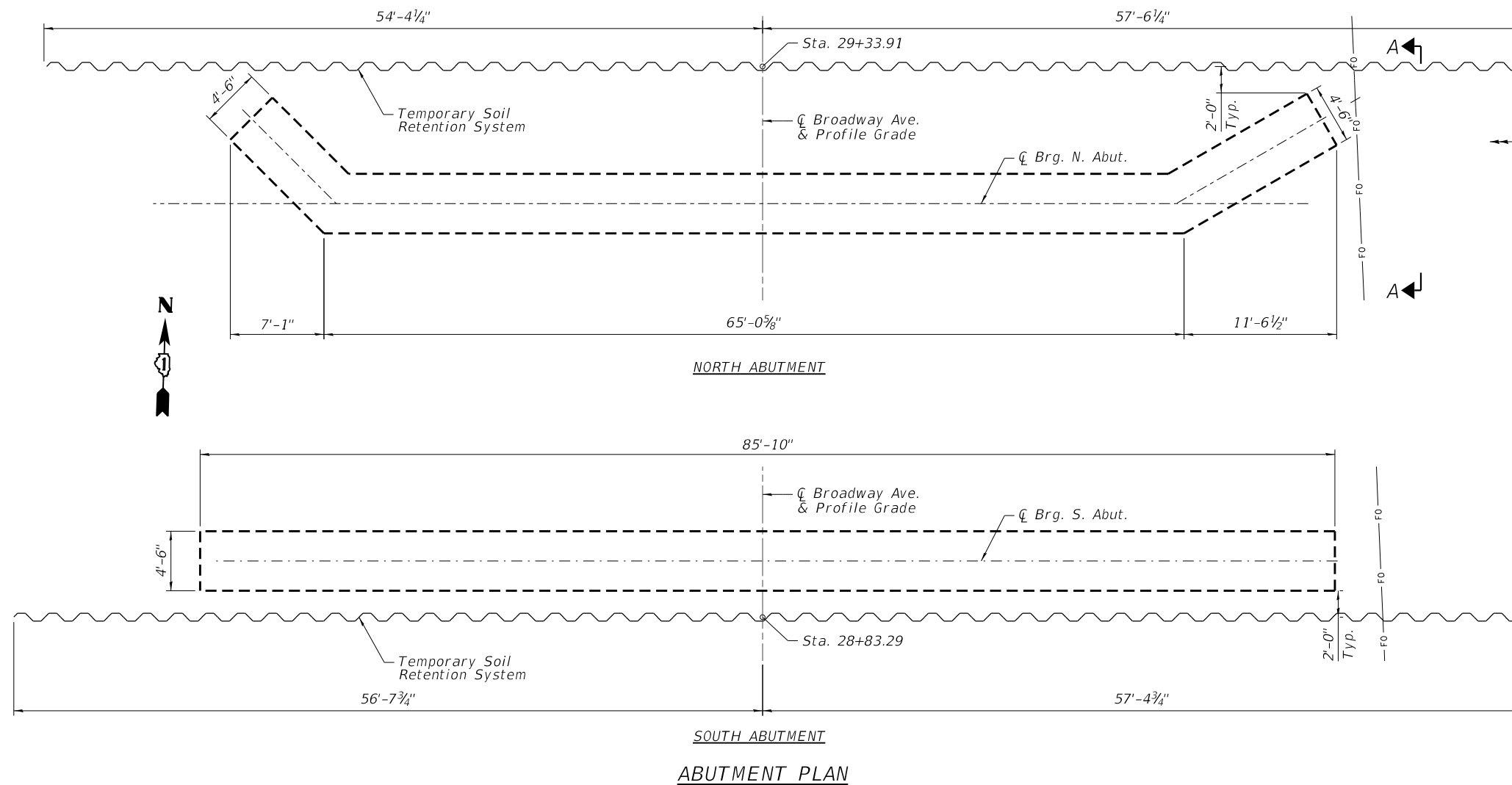
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, BILL OF MATERIAL & INDEX OF SHEETS
STRUCTURE NO. 016-7483**

SHEET 5-02 OF 5-28 SHEETS

F.A.U. RTE. = 2406	SECTION = 16-00131-00-BR	COUNTY = COOK	TOTAL SHEETS = 102	SHEET NO. = 38
CONTRACT NO. = 61148				
ILLINOIS FED. AID PROJECT				



LEGEND
 FO — Existing Underground Fiber Optics

NOTES
 1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

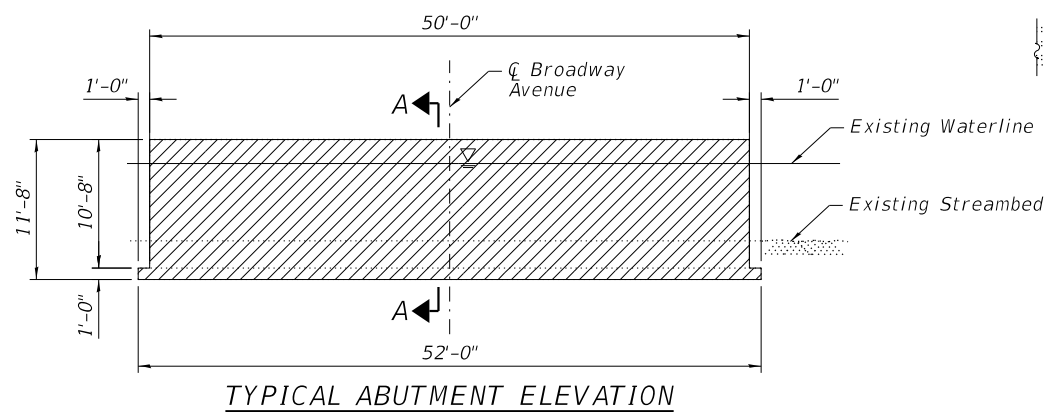
BILL OF MATERIAL

Item	Unit	Quantity
Temporary Soil Retention System	Sq Ft	2,789

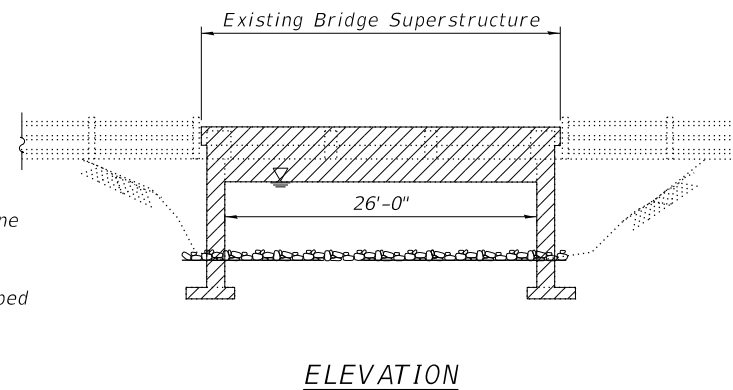
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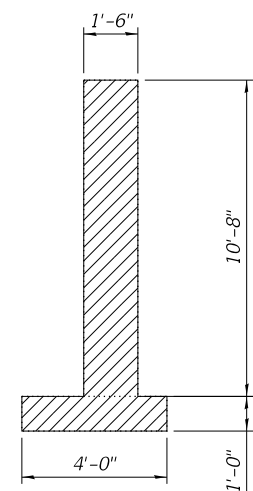
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2406	16-00131-00-BR	COOK	102	39
CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				



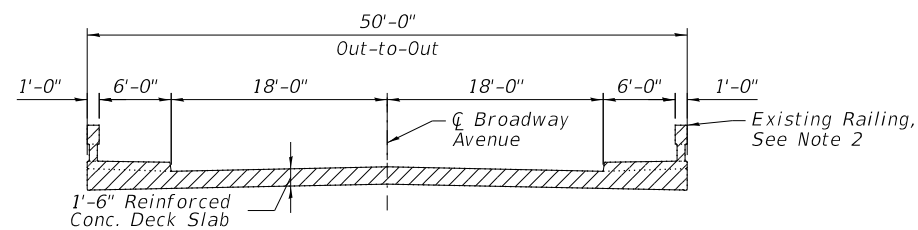
TYPICAL ABUTMENT ELEVATION



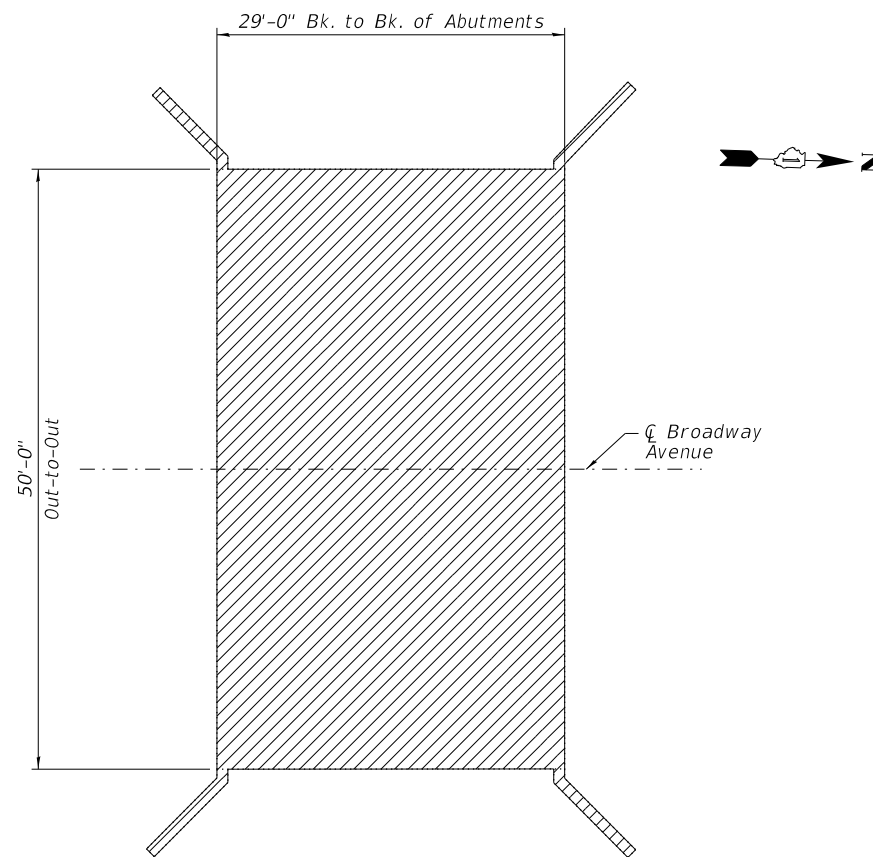
ELEVATION



SECTION A-A



EXISTING CROSS SECTION



PLAN

NOTES

1. Dimensions are taken from existing plans and are included for information only.
2. Removal of existing railing is included with Removal of Existing Structures.

LEGEND

Existing Structure Removal

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures	Each	1

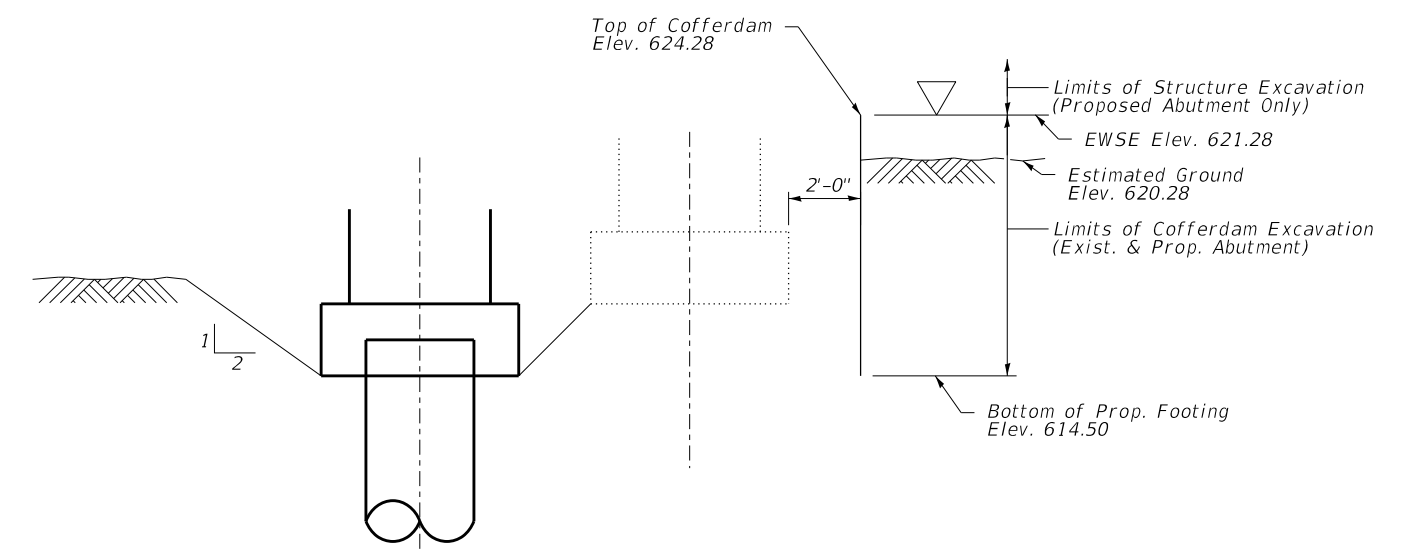
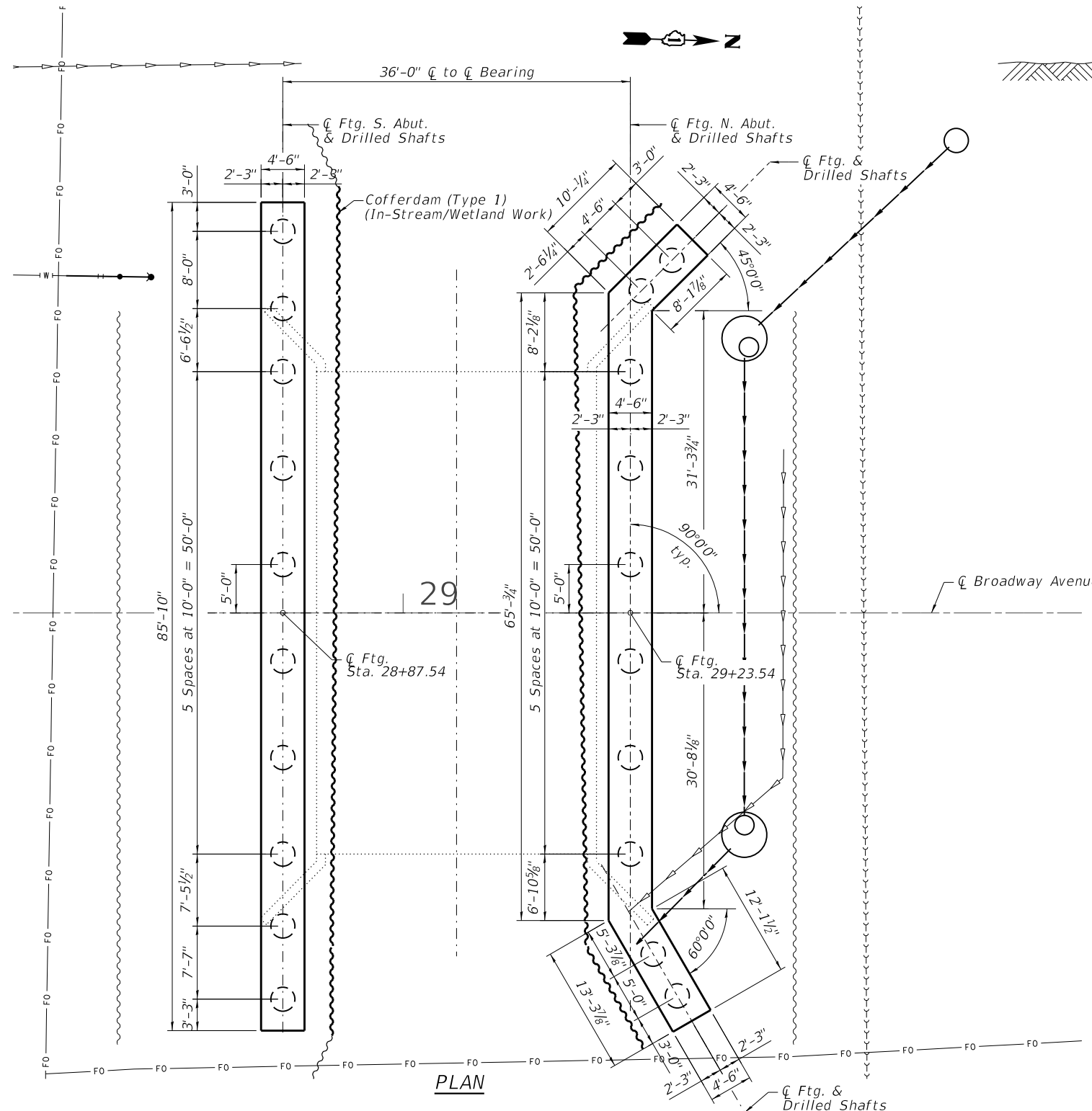
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	40
CONTRACT NO.			61148	
ILLINOIS		FED. AID PROJECT		

NOTES

1. The information shown for Cofferdams is estimated. It is the CONTRACTOR's responsibility to provide a design and details for each Cofferdam, complete with calculations and drawings, signed and sealed by an Illinois Licensed Structural ENGINEER, for the CM's review and acceptance before starting work.
2. Hard driving may be encountered during the Sheet Piling installation. The CONTRACTOR shall provide the appropriate driving equipment for the soil conditions indicated in the boring logs.



SCHEMATIC COFFERDAM SECTION FOR ABUTMENT

LEGEND

- >->->->- Existing Underground Sanitary Sewer
- FO- Existing Underground Fiber Optics
- ~~~~~ Cofferdam (Type 1) (In-Stream/Wetland Work)
- ~~~~~ Temporary Soil Retention System
- >->- Proposed Storm Sewer
- >->- Existing Storm Sewer
- ⊙ Proposed Storm Sewer Structure
- ⊙ Proposed Storm Sewer
- ⊕ Soil Borings

BILL OF MATERIAL

Item	Unit	Quantity
Cofferdam Excavation	Cu Yd	176
Cofferdam (Type 1) (In-Stream/Wetland Work)	Each	2

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FOUNDATION LAYOUT
STRUCTURE NO. 016-7483**

SHEET 5-05 OF 5-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	41
CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				

WEST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	28+86.54	30.00' Lt.	628.42	628.42
CL. S. Abut	28+87.54	30.00' Lt.	628.42	628.42
A	28+96.54	30.00' Lt.	628.45	628.48
B	29+06.54	30.00' Lt.	628.48	628.52
C	29+16.54	30.15' Lt.	628.45	628.47
CL. N. Abut	29+23.54	31.36' Lt.	628.41	628.41
Bk. N. Abut.	29+24.54	31.63' Lt.	628.41	628.41

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	28+86.54	23.00' Lt.	628.32	628.32
CL. S. Abut	28+87.54	23.00' Lt.	628.32	628.32
A	28+96.54	23.00' Lt.	628.35	628.38
B	29+06.54	23.00' Lt.	628.37	628.41
C	29+16.54	23.13' Lt.	628.34	628.37
CL. N. Abut	29+23.54	24.16' Lt.	628.30	628.30
Bk. N. Abut.	29+24.54	24.39' Lt.	628.30	628.30

PGL

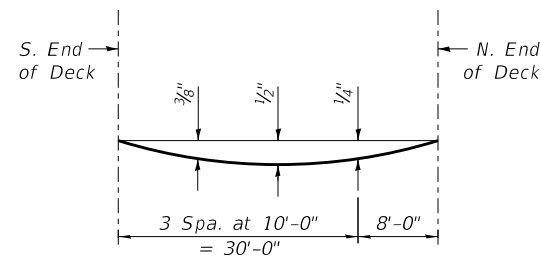
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	28+86.54	0.00	628.66	628.66
CL. S. Abut	28+87.54	0.00	628.66	628.66
A	28+96.54	0.00	628.69	628.72
B	29+06.54	0.00	628.72	628.76
C	29+16.54	0.00	628.69	628.71
CL. N. Abut	29+23.54	0.00	628.67	628.67
Bk. N. Abut.	29+24.54	0.00	628.66	628.66

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	28+86.54	23.00' Rt.	628.32	628.32
CL. S. Abut	28+87.54	23.00' Rt.	628.32	628.32
A	28+96.54	23.00' Rt.	628.35	628.38
B	29+06.54	23.00' Rt.	628.37	628.41
C	29+16.54	23.00' Rt.	628.34	628.37
CL. N. Abut	29+23.54	23.00' Rt.	628.32	628.32
Bk. N. Abut.	29+24.54	23.00' Rt.	628.32	628.32

EAST EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. S. Abut.	28+86.54	30.00' Rt.	628.42	628.42
CL. S. Abut	28+87.54	30.00' Rt.	628.42	628.42
A	28+96.54	30.00' Rt.	628.45	628.48
B	29+06.54	30.00' Rt.	628.48	628.52
C	29+16.54	30.00' Rt.	628.45	628.47
CL. N. Abut	29+23.54	30.06' Rt.	628.43	628.43
Bk. N. Abut.	29+24.54	30.21' Rt.	628.43	628.43

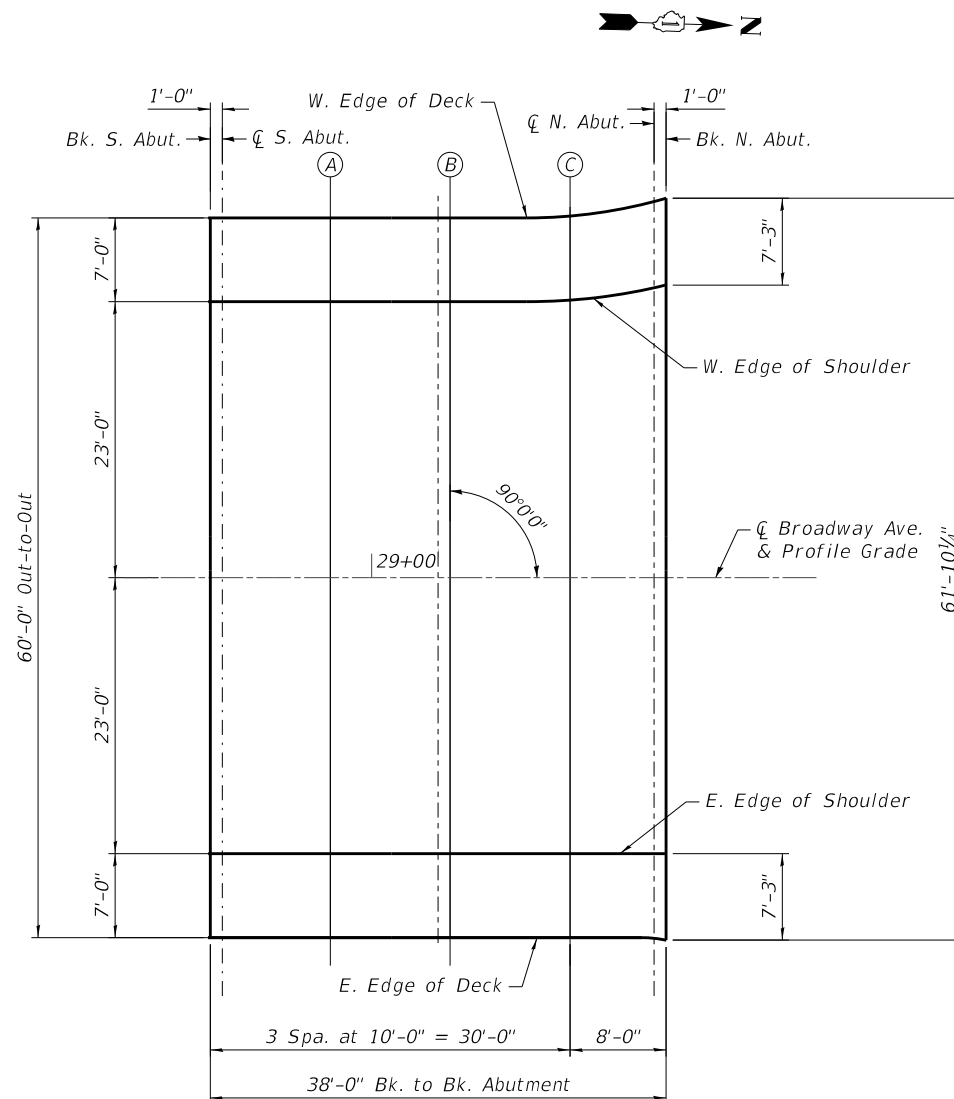


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete deck, sidewalks, and railings only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet.



PLAN

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PLOT SCALE = 0.1667' / in.	DRAWN - RA	REVISED -
PLOT DATE = 2/15/2023	CHECKED - WM / BWS	REVISED -
	DATE - 2/15/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
 STRUCTURE NO. 016-7483

SHEET 5-06 OF 5-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	42
CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of South Appr. Pavement	28+58.04	38.50' Lt.	628.25	628.25
A1	28+65.75	38.50' Lt.	628.47	628.47
A2	28+70.75	32.09' Lt.	628.44	628.44
A3	28+77.53	30.02' Lt.	628.44	628.44
N. End South Appr. Pavement	28+86.54	30.00' Lt.	628.42	628.42

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of South Appr. Pavement	-	-	-	-
A1	28+65.75	27.68' Lt.	628.31	628.31
A2	28+70.75	24.54' Lt.	628.33	628.33
A3	28+77.53	23.01' Lt.	628.33	628.33
N. End South Appr. Pavement	28+86.54	23.00' Lt.	628.32	628.32

Q BROADWAY AVE. AND PROFILE GRADE

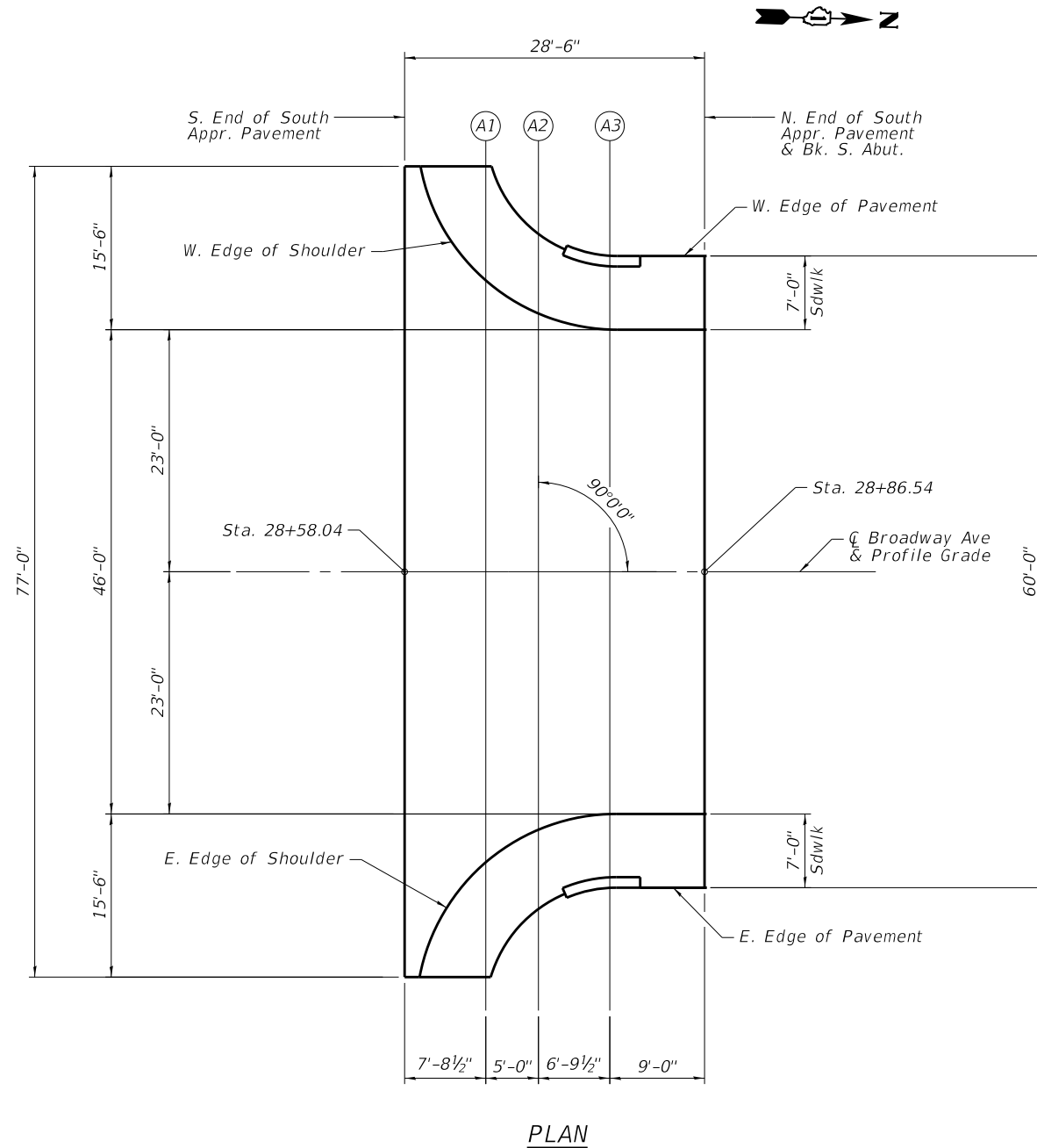
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of South Appr. Pavement	28+58.04	0.00	628.59	628.59
A1	28+65.75	0.00	628.60	628.60
A2	28+70.75	0.00	628.61	628.61
A3	28+77.53	0.00	628.63	628.63
N. End South Appr. Pavement	28+86.54	0.00	628.66	628.66

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of South Appr. Pavement	28+58.04	38.50' Rt.	628.17	628.17
A1	28+65.75	27.60' Rt.	628.27	628.27
A2	28+70.75	24.50' Rt.	628.30	628.30
A3	28+77.53	23.01' Rt.	628.32	628.32
N. End South Appr. Pavement	28+86.54	23.00' Rt.	628.32	628.32

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of South Appr. Pavement	-	-	-	-
A1	28+65.75	38.50' Rt.	628.43	628.43
A2	28+70.75	32.03' Rt.	628.41	628.41
A3	28+77.53	30.02' Rt.	628.42	628.42
N. End South Appr. Pavement	28+86.54	30.00' Rt.	628.42	628.42



PLAN

NOTE:

1. Cross-slopes vary along the south approach slab. See approach slab details sheet S-16 for details.

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	DRAWN - RA	REVISED -
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PLOT DATE = 2/15/2023	DATE - 2/15/2023	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	43
CONTRACT NO.			61148	
ILLINOIS		FED. AID PROJECT		

WEST EDGE OF SHOULDER

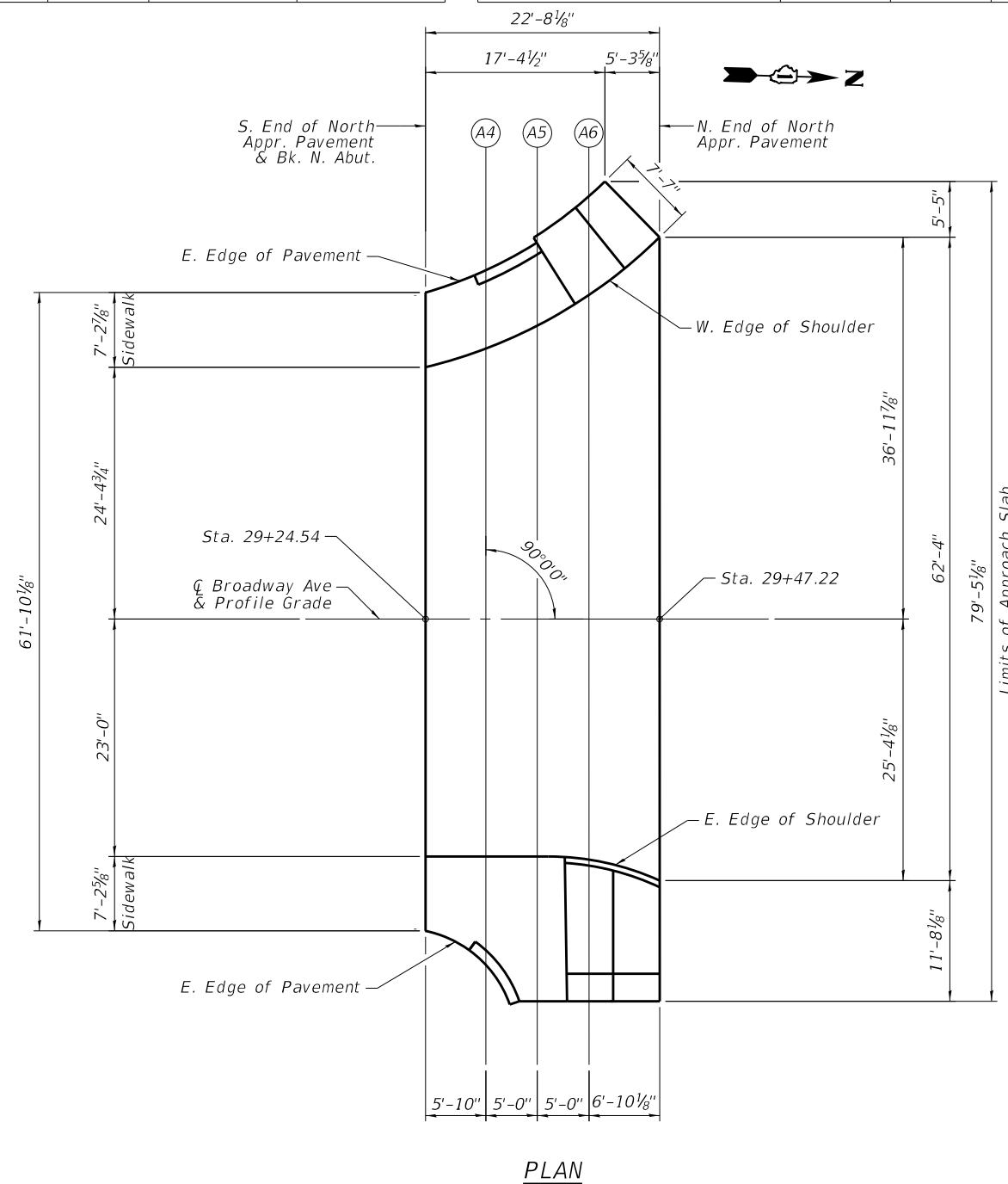
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of North Appr. Pavement	29+24.54	31.63' Lt.	628.41	628.41
A4	29+30.37	33.79' Lt.	628.42	628.42
A5	29+35.37	37.18' Lt.	628.44	628.44
A6	29+40.37	40.97' Lt.	628.45	628.45
N. End North Appr. Pavement	29+41.92	42.40' Lt.	628.42	628.42

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of North Appr. Pavement	29+24.54	24.39' Lt.	628.30	628.30
A4	29+30.37	26.21' Lt.	628.30	628.30
A5	29+35.37	28.44' Lt.	628.31	628.31
A6	29+40.37	31.40' Lt.	628.31	628.31
N. End North Appr. Pavement	29+47.22	36.99' Lt.	628.32	628.32

Q BROADWAY AVE. AND PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of North Appr. Pavement	29+24.54	0.00	628.66	628.66
A4	29+30.37	0.00	628.65	628.65
A5	29+35.37	0.00	628.63	628.63
A6	29+40.37	0.00	628.62	628.62
N. End North Appr. Pavement	29+47.22	0.00	628.60	628.60



EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of North Appr. Pavement	29+24.54	23.00' Rt.	628.32	628.32
A4	29+30.37	23.00' Rt.	628.33	628.33
A5	29+35.37	23.00' Rt.	628.34	628.34
A6	29+40.37	23.30' Rt.	628.35	628.35
N. End North Appr. Pavement	29+47.22	25.34' Rt.	628.34	628.34

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
S. End of North Appr. Pavement	29+24.54	30.21' Rt.	628.43	628.43
A4	29+30.37	33.48' Rt.	628.49	628.49
A5	29+35.37	37.02' Rt.	628.55	628.55
A6	29+40.37	37.02' Rt.	628.55	628.55
N. End North Appr. Pavement	29+47.22	37.02' Rt.	628.52	628.52

NOTE:

1. Cross-slopes vary along the south approach slab. See approach slab details sheet S-16 for details.

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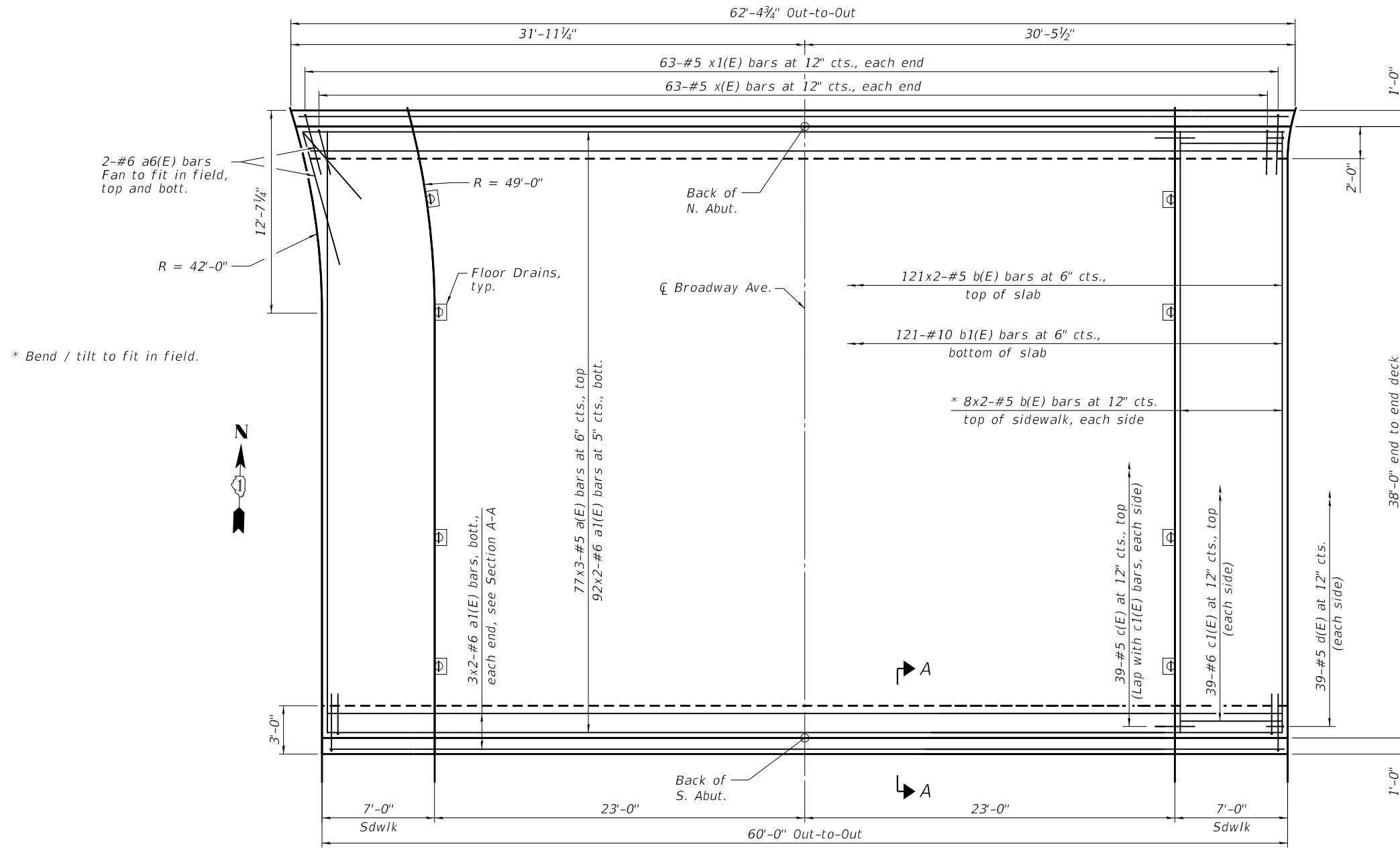
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	DATE - 2/15/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

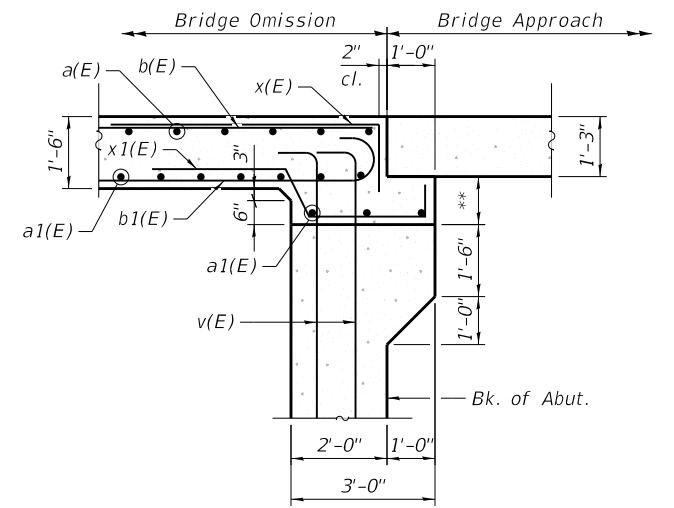
**TOP OF NORTH APPROACH ELEVATIONS
 STRUCTURE NO. 016-7483**

SHEET 5-08 OF 5-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	44
CONTRACT NO.			61148	
ILLINOIS		FED. AID PROJECT		



PLAN
(Approach slab not shown)



SECTION A-A

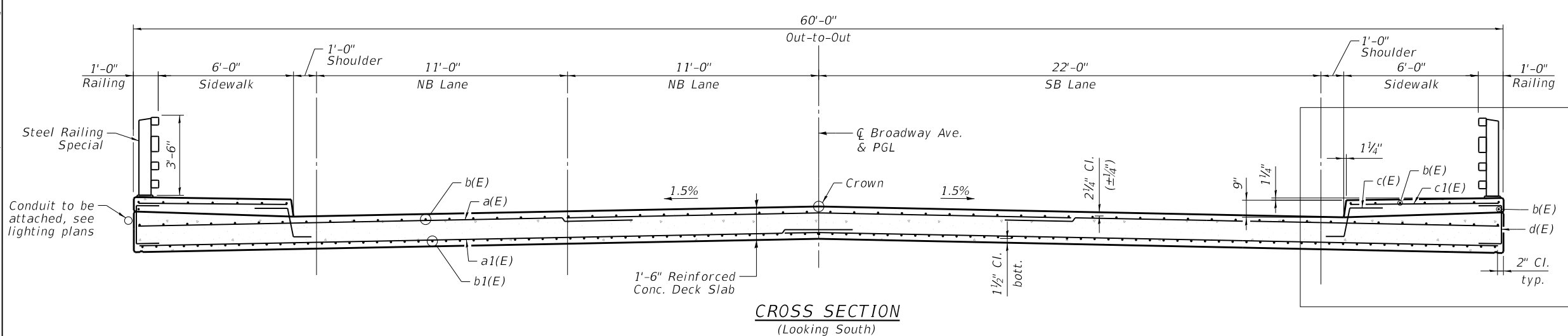
v(E) bars are included with abutments, see Sheets S-18 through S-21.
** Varies, see abutment sheets for details.

NOTES:

1. Bars indicated thus 70x2-#6 etc. Indicates 70 lines of bars with 2 lengths per line.
2. See Sheet S-10 for Deck Drain details and Bill of Material.
3. See Sheet S-10 for Section thru Sidewalk.

MINIMUM BAR LAP

#5 bar = 3'-2"
#6 bar = 3'-9"



CROSS SECTION
(Looking South)

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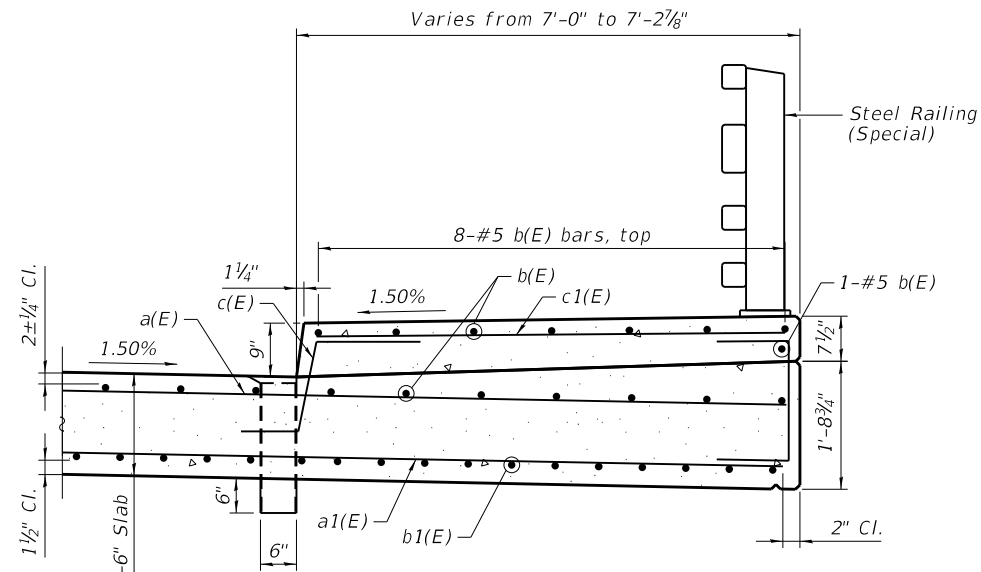
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	DATE - 2/15/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

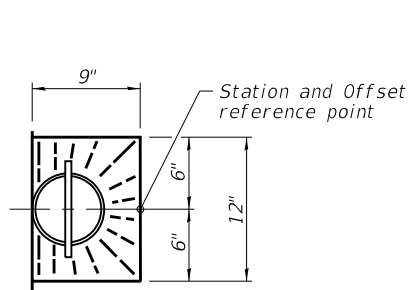
SUPERSTRUCTURE PLAN AND CROSS SECTION
STRUCTURE NO. 016-7483

SHEET 5-09 OF 5-28 SHEETS

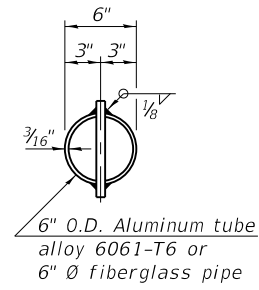
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	45
CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				



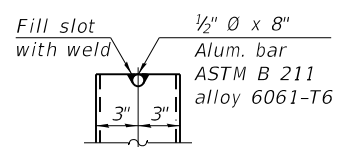
SECTION THRU SIDEWALK
(East Parapet shown, West similar)



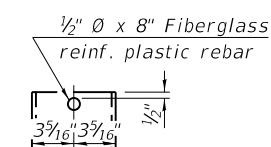
TOP PLAN



TOP PLAN
(Showing aluminum tube)



ALUMINUM TUBE

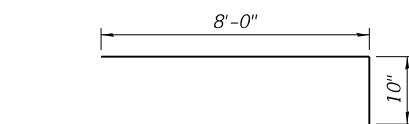


FIBERGLASS PIPE

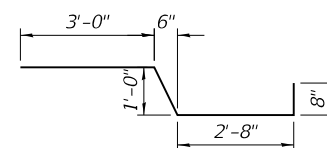
FLOOR DRAIN DETAILS

NOTES:

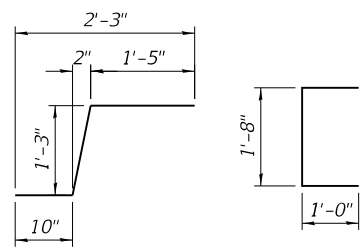
1. For abutment into slab reinforcement, see Sheet S-18.
2. Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
3. The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
4. The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.



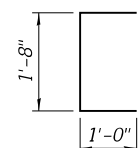
x(E)



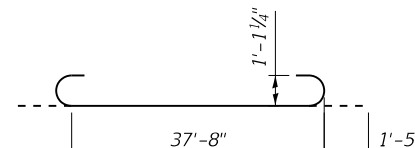
x1(E)



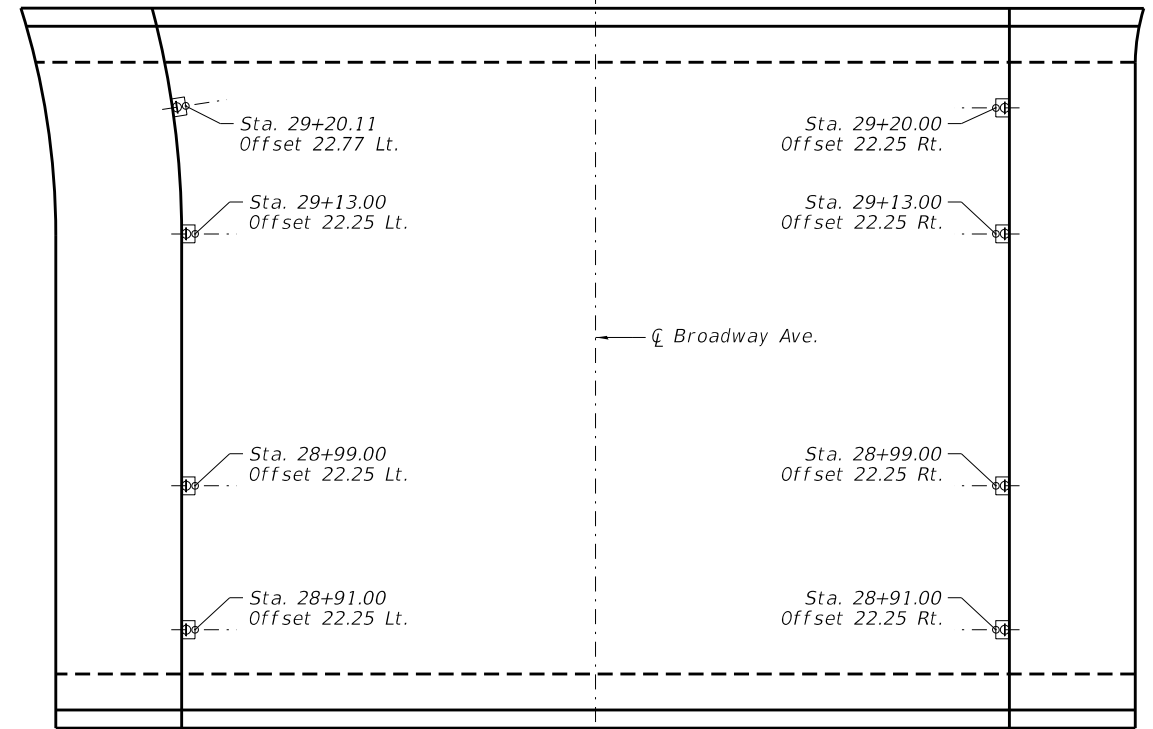
c(E)



d(E)



b1(E)



FLOOR DRAIN LOCATION PLAN

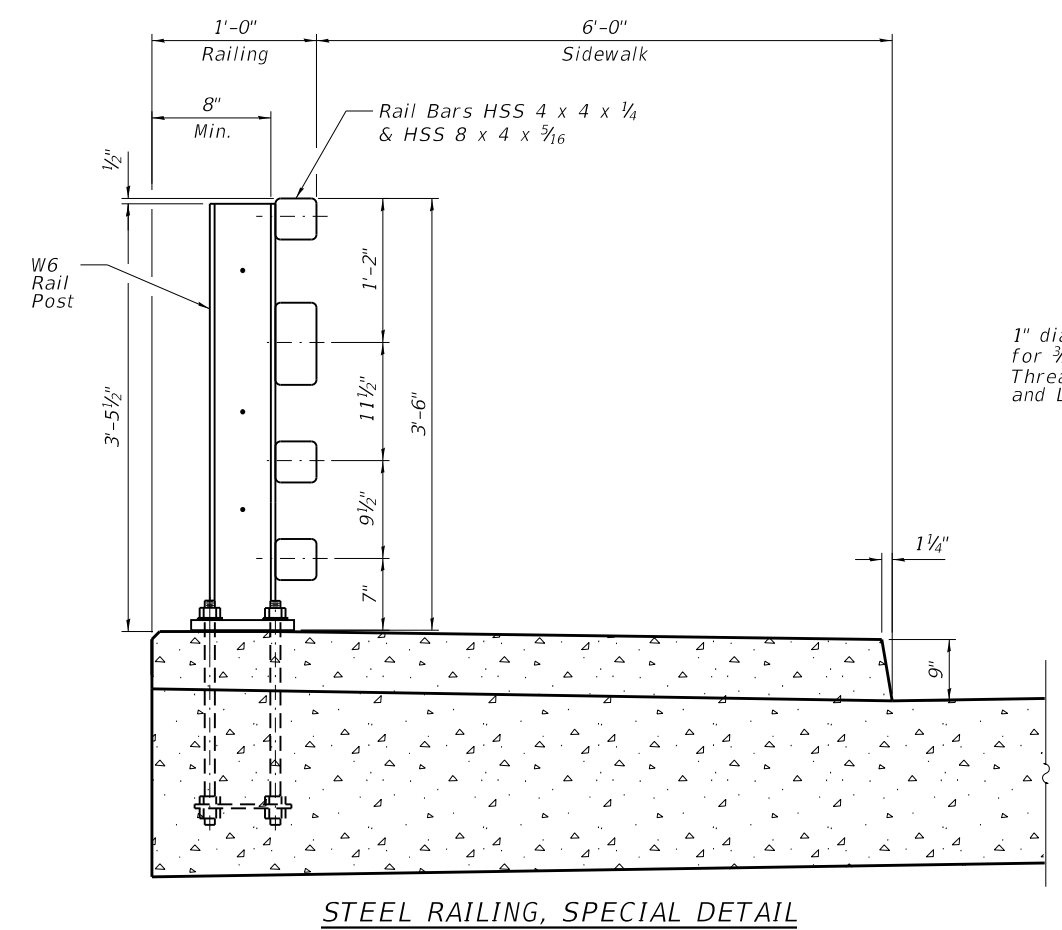
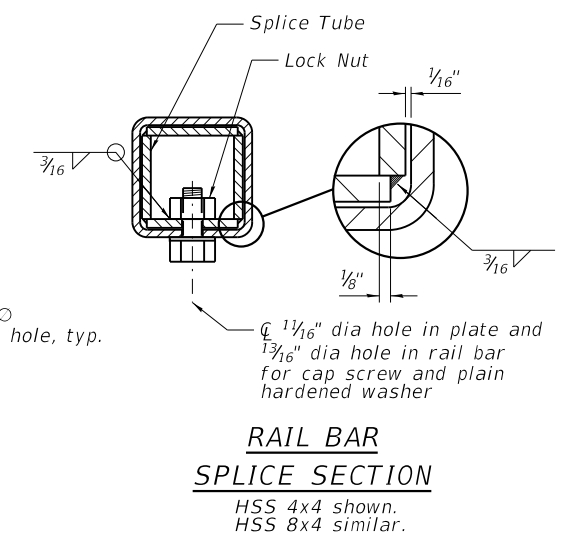
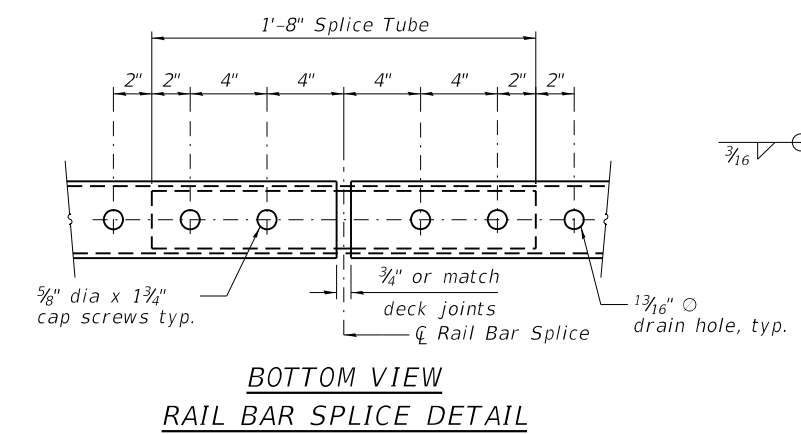
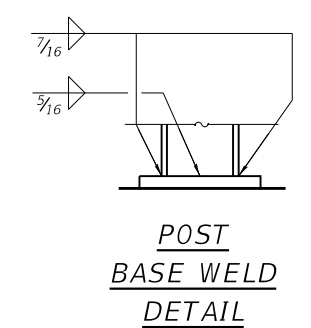
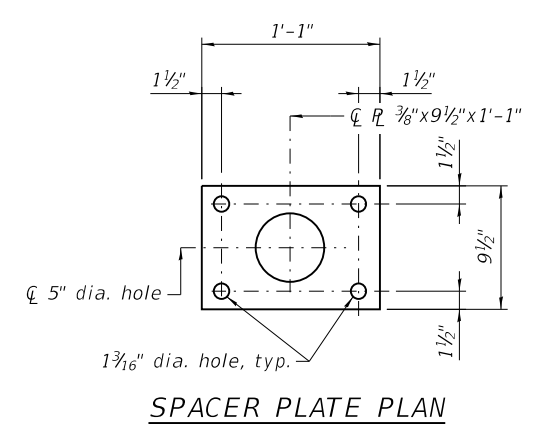
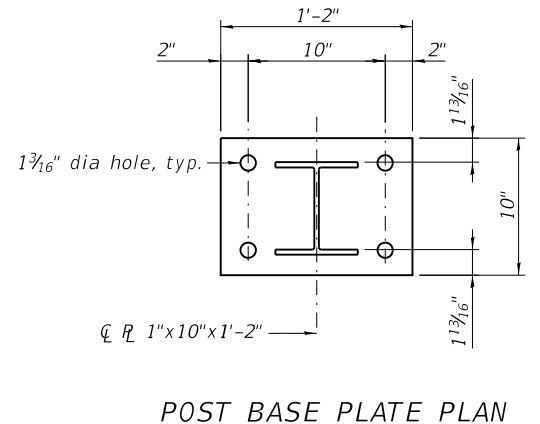
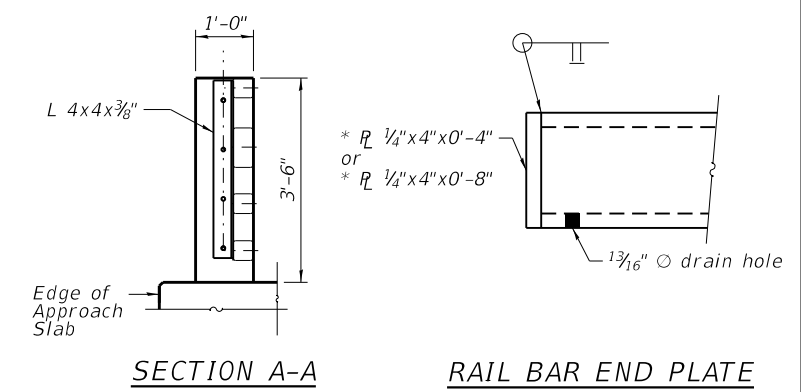
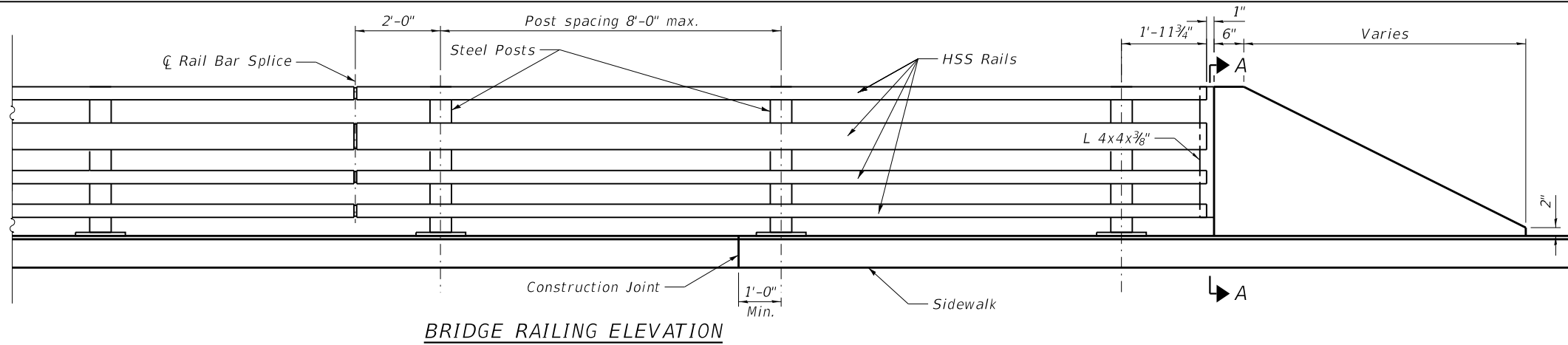
See Floor Drain Details for Station and Offset reference point.

BILL OF MATERIAL

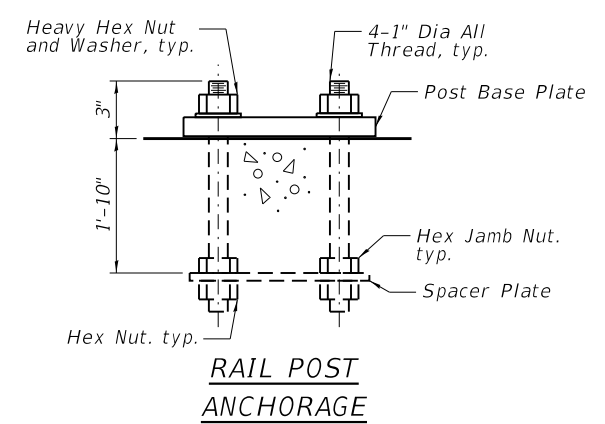
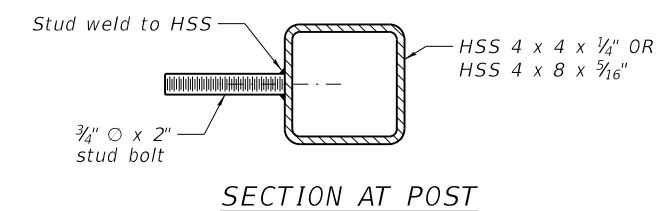
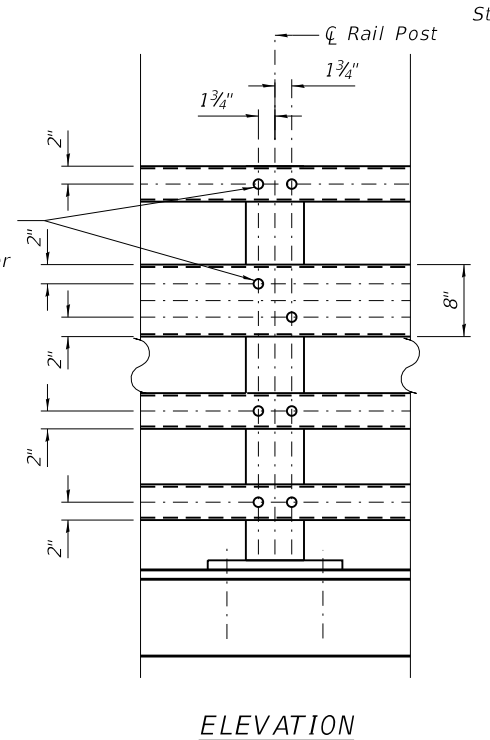
Bar	No.	Size	Length	Shape
a(E)	231	#5	22'-10"	—
a1(E)	196	#6	32'-11"	—
a6(E)	4	#6	8'-0"	—
b(E)	274	#5	20'-6"	—
b1(E)	121	#10	40'-6"	⌋
c(E)	78	#5	3'-7"	┌
c1(E)	78	#5	6'-8"	—
d(E)	78	#5	3'-8"	┐
x(E)	126	#5	8'-10"	┌
x1(E)	126	#5	7'-6"	┐
Reinforcement Bars, Epoxy Coated			Pound	45,470
Concrete Superstructure			Cu Yd	156.3
Bridge Deck Grooving			Sq Yd	185
Floor Drains			Each	8
Protective Coat			Sq Yd	262

USER NAME = Structural	DESIGNED - RA	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - WM / BWS	REVISED -
PLOT DATE = 2/15/2023	DATE - 2/15/2023	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	46
CONTRACT NO.			61148	
ILLINOIS		FED. AID PROJECT		



1" dia holes in post for 3/4" dia X 2" Full Thread Stud with Washer and Lock Nut, typ.



- NOTES:**
- All exposed cuts or sheared edges shall be rounded and free of burrs.
 - Rail posts shall be set normal to grade.
 - Lengths of rail bar shall be attached to a minimum of two rail posts.
 - Rail post anchoring nuts shall be tightened to a snug fit and given additional 1/2 turn.
 - Holes in posts for rail bar attachment may be field drilled. Holes shall be coated with an approved zinc-rich paint prior to erection.
 - All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

BILL OF MATERIAL

Item	Unit	Total
Steel Railing, (Special)	Foot	100

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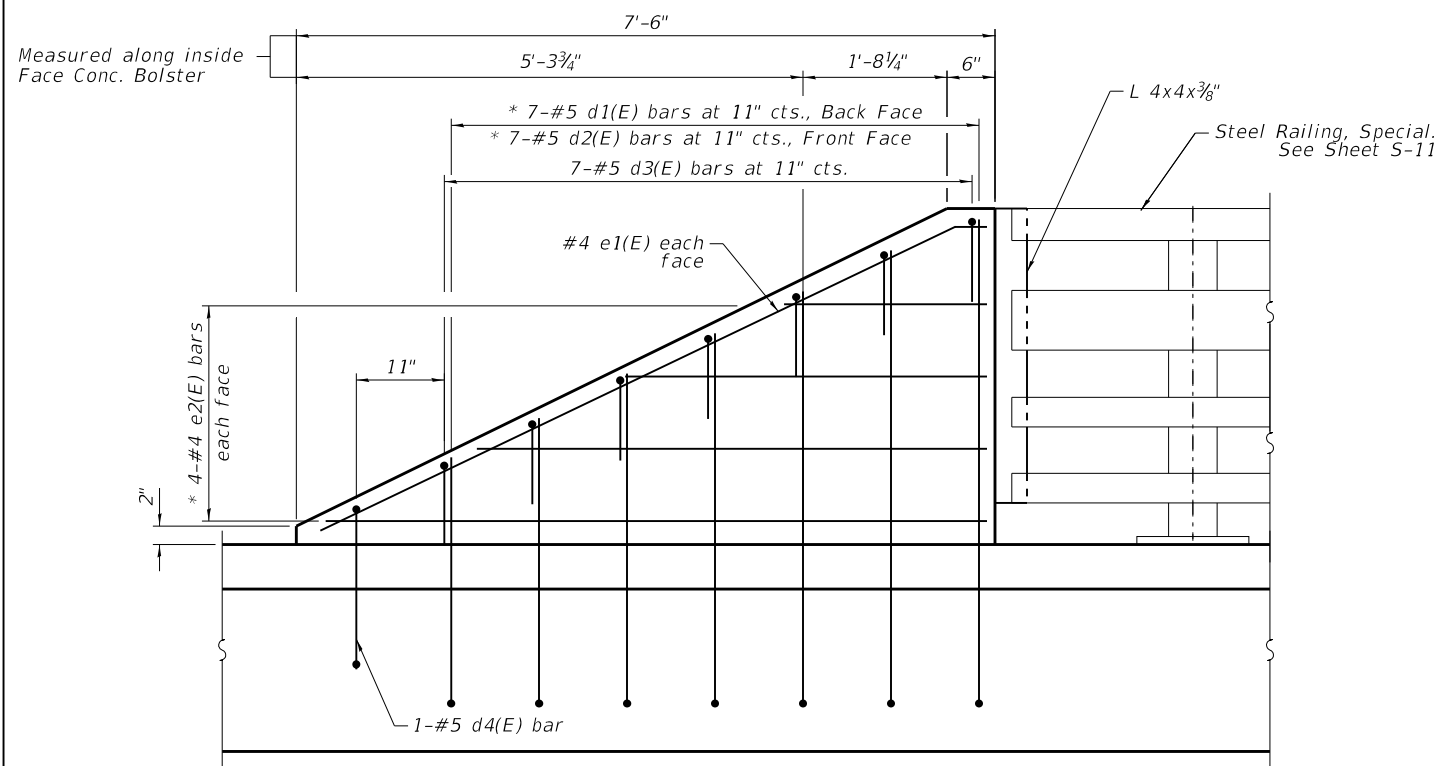
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

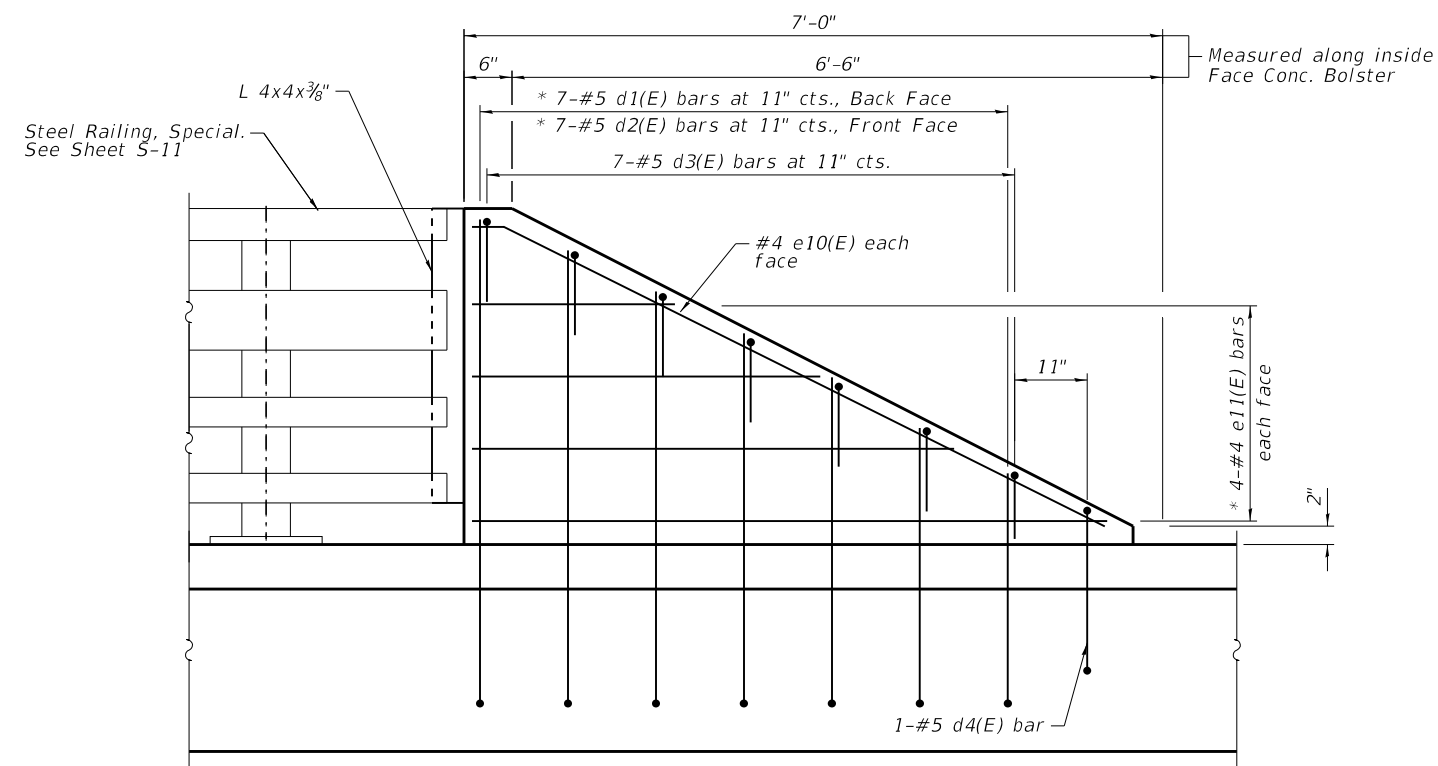
**STEEL RAILING SPECIAL
 STRUCTURE NO. 016-7483**

SHEET 5-11 OF 5-28 SHEETS

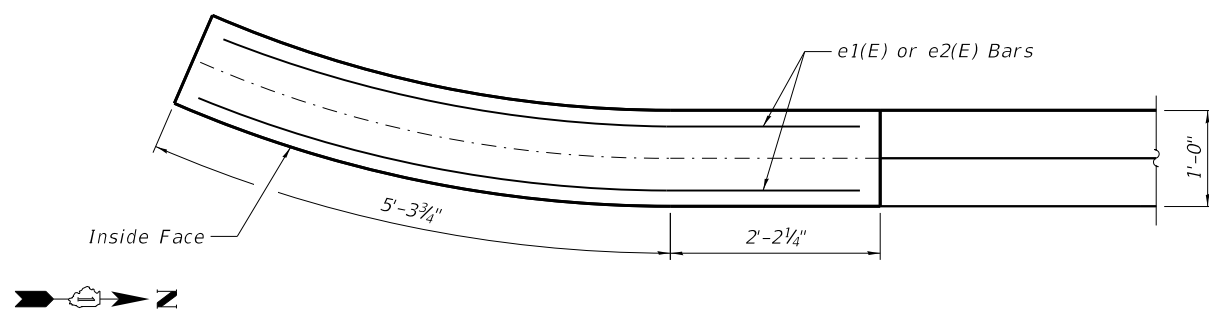
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2406	16-00131-00-BR	COOK	102	47
CONTRACT NO.			61J48	
ILLINOIS		FED. AID PROJECT		



ELEVATION
(Looking at Southwest F.F. Conc. Bolster,
Southeast is similar but mirrored)



ELEVATION
(Looking at F.F. Conc. Bolster)

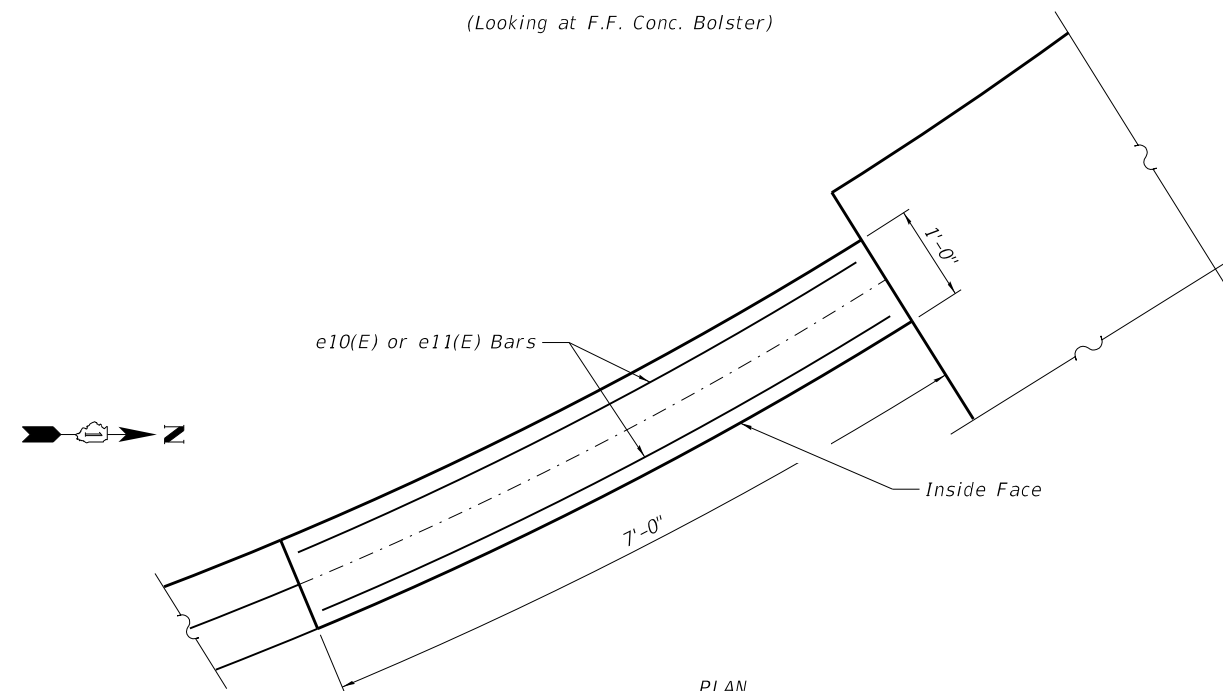


PLAN
(Looking at Southwest,
Southeast is similar but mirrored)

**SOUTHWEST AND SOUTHEAST
BRIDGE RAILING**

NOTES:

- See Sheet S-13 for Northeast bridge railing details and Bill of Material.



PLAN
NORTHWEST BRIDGE RAILING

* Order d1(E), d2(E), and e2(E) bars full length.
Cut to fit slope.

DATE PLOTTED = 2/15/2023 9:00:21 AM
PEN TABLE = 0021469.01.tbl
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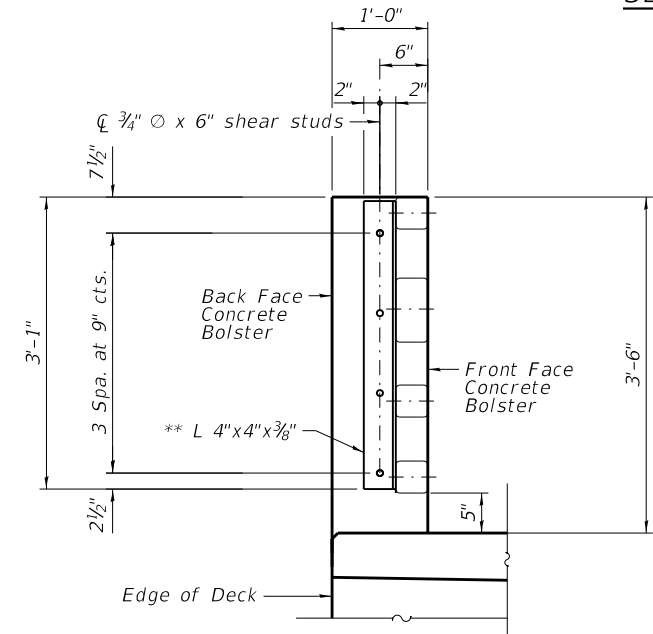
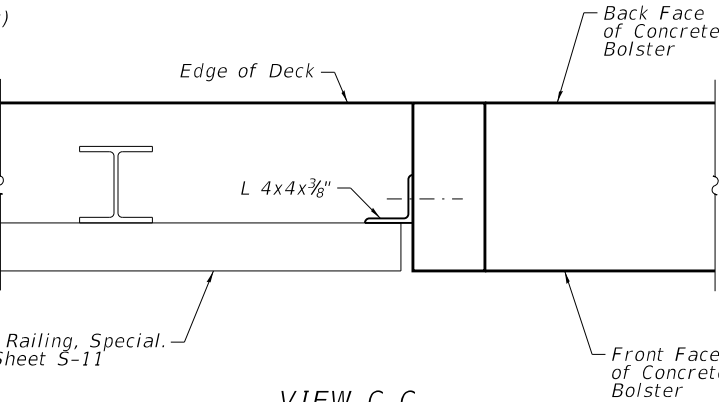
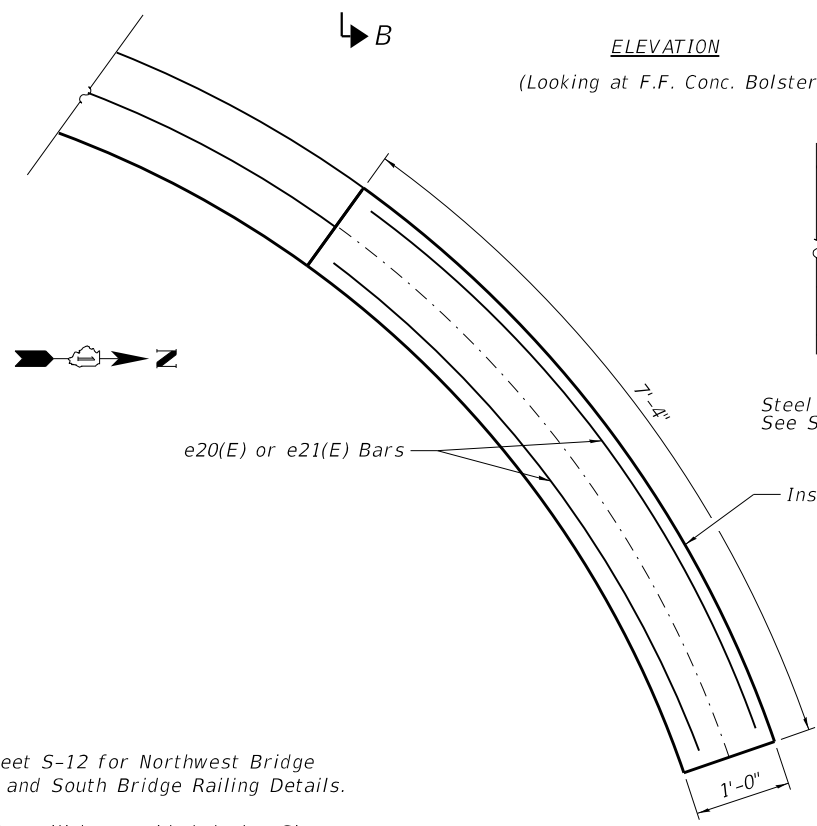
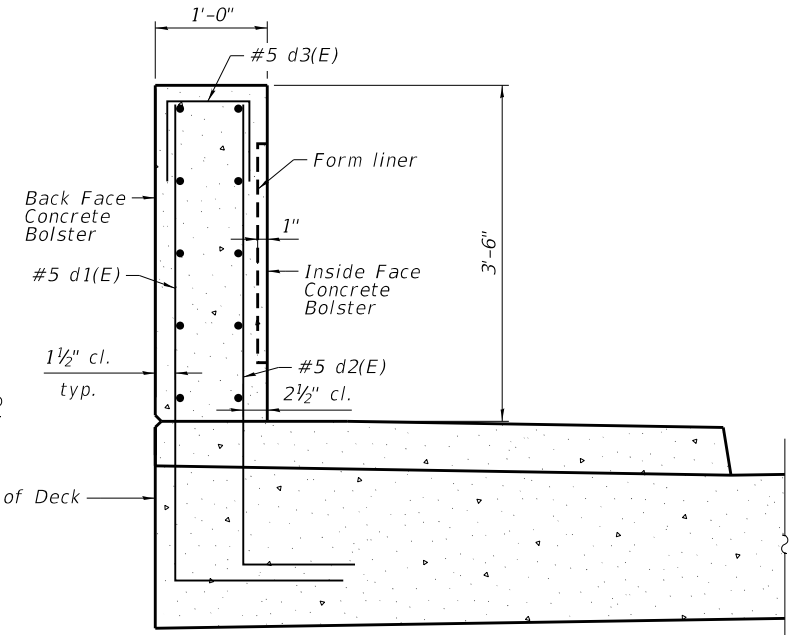
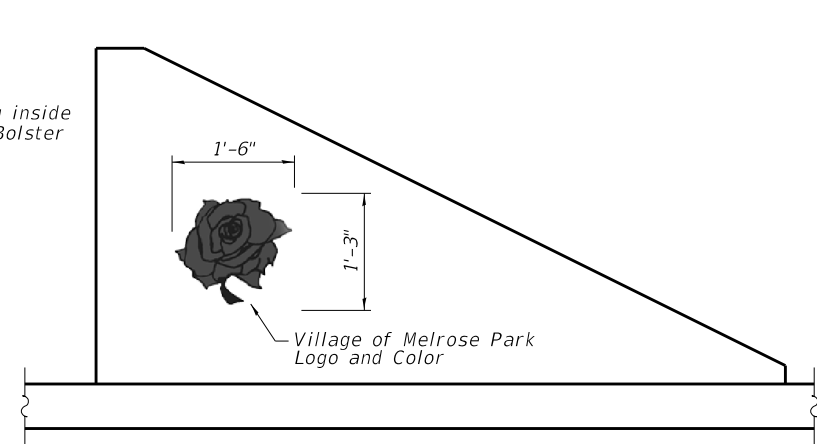
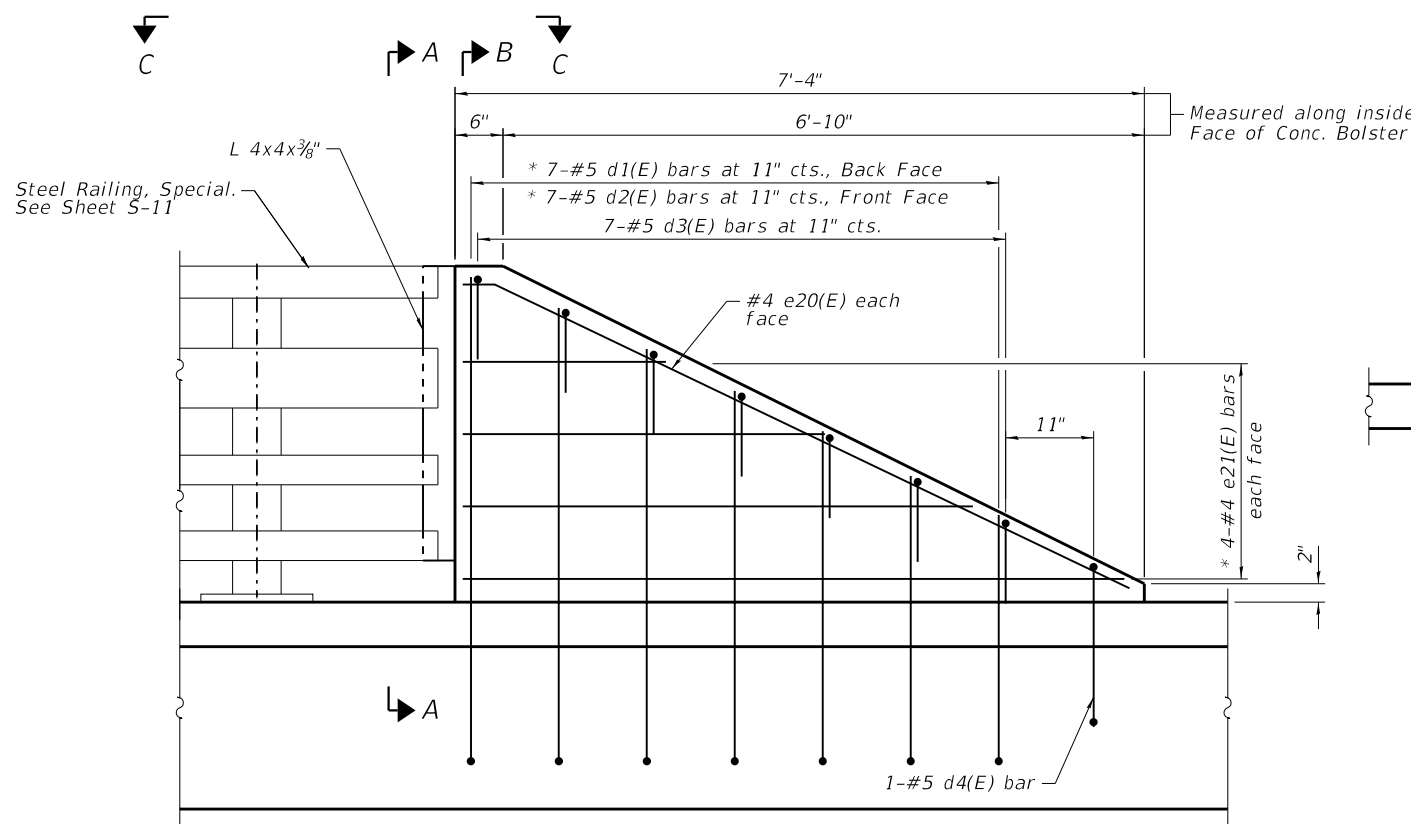
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PLOT DATE = 2/15/2023	CHECKED - WM / BWS	REVISED -
	DATE - 2/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAILING BOLSTER DETAILS I
STRUCTURE NO. 016-7483**

SHEET 5-12 OF 5-28 SHEETS

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 48
CONTRACT NO. 61148			ILLINOIS FED. AID PROJECT	



BAR	NO.	Y	Z	Bar Length
e2(E)	16	12'-6"	2'-0"	6'-11"
e11(E)	8	42'-6"	0"	6'-7"
e21(E)	8	11'-4"	0"	6'-8"

BARS e2(E), e11(E), AND e21(E)

BAR	NO.	"A"	"B"	Bar Length
*e1(E)	4	4"	7'-8"	8'-0"
*e10(E)	2	4"	7'-3"	7'-7"
*e20(E)	2	4"	7'-6"	7'-10"

* Bend to fit curve
BARS e1(E), e10(E), AND e20(E)

BILL OF MATERIAL

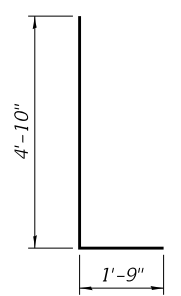
BAR	NO.	SIZE	LENGTH	SHAPE
d1(E)	28	#5	6'-7"	┌┐
d2(E)	28	#5	5'-11"	┌┐
d3(E)	28	#5	2'-5"	┌┐
d4(E)	4	#5	6'-3"	┌┐
e2(E)	16	#4	6'-11"	┌┐
e11(E)	8	#4	6'-7"	┌┐
e21(E)	8	#4	6'-8"	┌┐
e1(E)	4	#4	8'-0"	┌┐
e10(E)	2	#4	7'-7"	┌┐
e20(E)	2	#4	7'-10"	┌┐
Form Liner Textured Surface, Special				Sq. Ft. 8
Staining Concrete Structures				Sq. Ft. 8
Reinforcement Bars, Epoxy Coated				Pound 650
Protective Coat				Sq. Yd. 11
Concrete Superstructure				Cu. Yd. 2.2

NOTES:

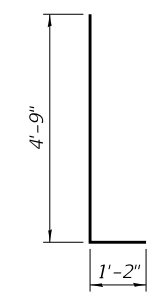
- See Sheet S-12 for Northwest Bridge Railing and South Bridge Railing Details.
- CAD files will be provided during Shop Drawing Process for form liner pattern shown in the Parapet Treatment Detail.

* Order d1(E), d2(E), and e21(E) bars full length. Cut to fit slope.

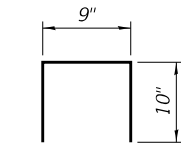
NORTHEAST BRIDGE RAILING



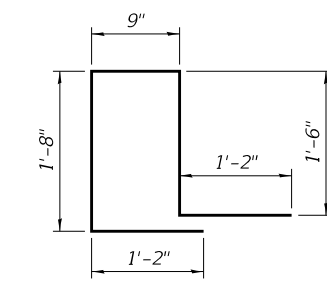
Bar d1(E)



Bar d2(E)



Bar d3(E)



Bar d4(E)

** Cost of Angle and Shear Studs included with Steel Railing, (Special)

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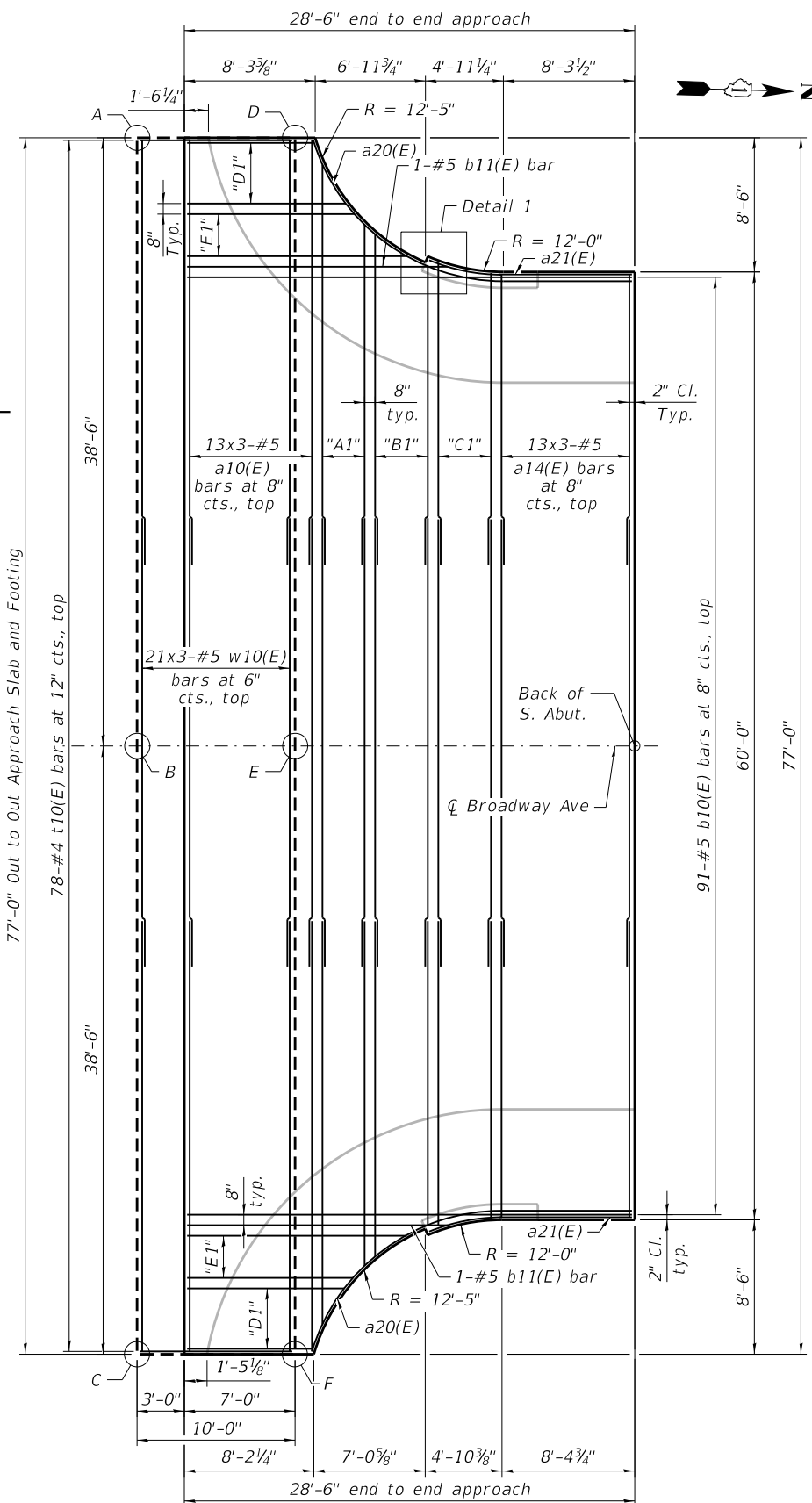
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	DATE - 2/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAILING BOLSTER DETAILS II
STRUCTURE NO. 016-7483**

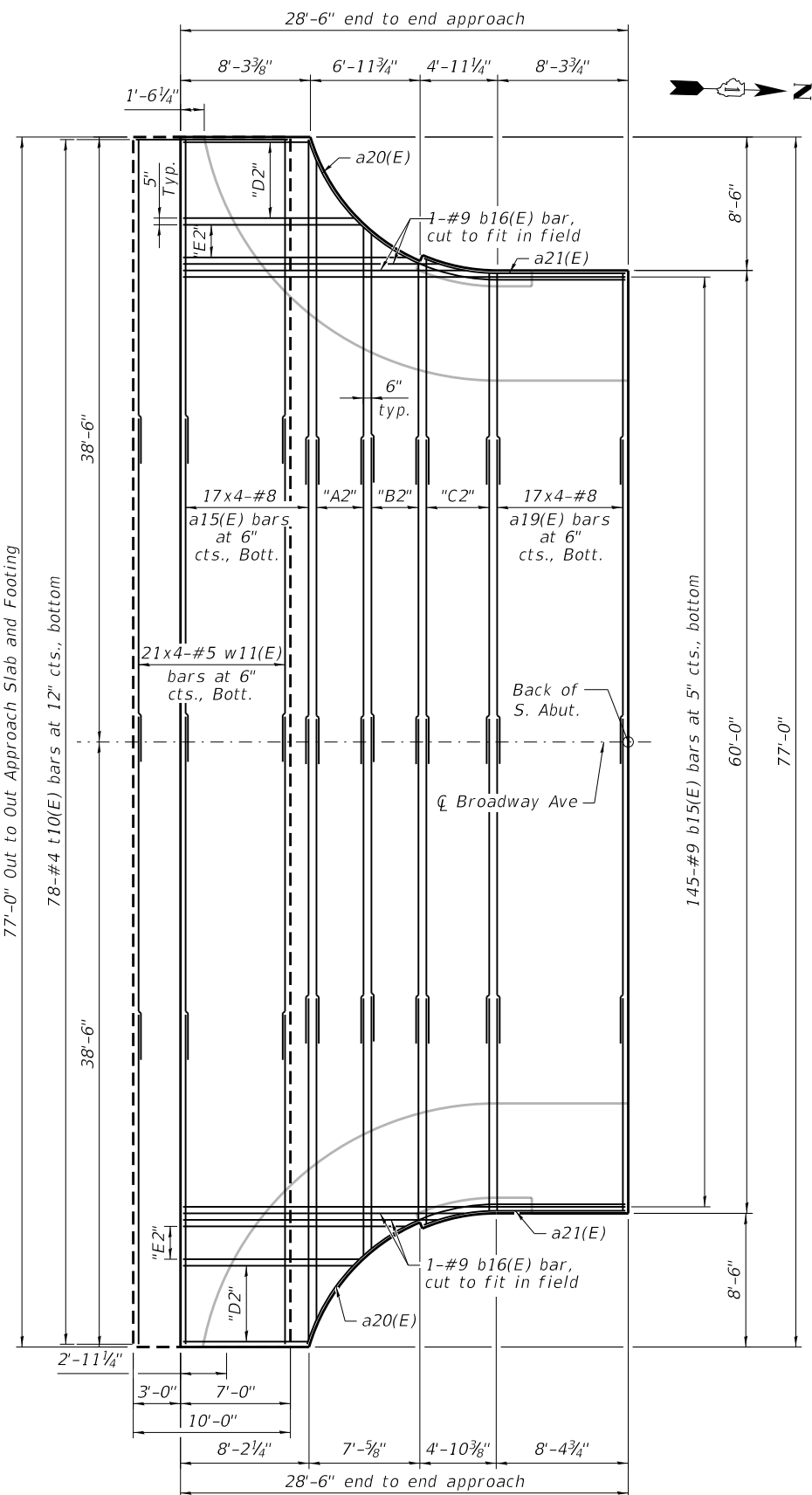
SHEET S-13 OF S-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	49
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



TOP REINFORCEMENT PLAN
(Sidewalk rebar not shown for clarity)

"A1" = 5x3-#5 a11(E) bars at 8" cts., top
 "B1" = 6x3-#5 a12(E) bars at 8" cts., top
 "C1" = 6x3-#5 a13(E) bars at 8" cts., top
 "D1" = *7-#5 b12(E) bars at 8" cts., top
 "E1" = *5-#5 b13(E) bars at 8", top

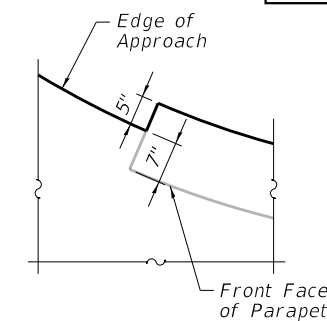


BOTTOM REINFORCEMENT PLAN
(Sidewalk rebar not shown for clarity)

"A2" = 8x4-#8 a16(E) bars at 6" cts., bott.
 "B2" = 8x4-#8 a17(E) bars at 6" cts., bott.
 "C2" = 10x4-#8 a18(E) bars at 6" cts., bott.
 "D2" = *13-#9 b17(E) bars at 5" cts., bott.
 "E2" = *6-#9 b18(E) bars at 5", bott.

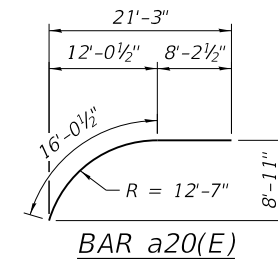
MINIMUM BAR LAP

#5 bar = 3'-0"
 #8 bar = 4'-9"

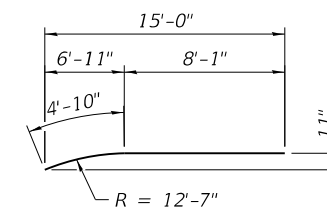


DETAIL 1

West end shown,
 East end is similar

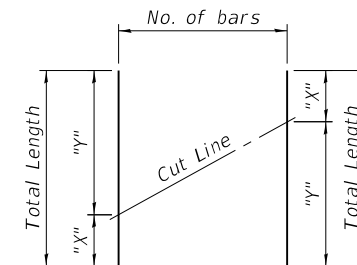


BAR a20(E)



BAR a21(E)

"A2" = 8x4-#8 a16(E) bars at 6" cts., bott.
 "B2" = 8x4-#8 a17(E) bars at 6" cts., bott.
 "C2" = 10x4-#8 a18(E) bars at 6" cts., bott.
 "D2" = *13-#9 b17(E) bars at 5" cts., bott.
 "E2" = *6-#9 b18(E) bars at 5", bott.



* Order bars full length. Cut as shown and use remainder of bars in opposite end of approach slab.

Bar	No. of bars	"X"	"Y"	Bar Length
b12(E)	7	8'-0"	9'-11"	17'-11"
b13(E)	5	10'-6"	13'-10"	24'-4"
b17(E)	13	8'-0"	10'-11"	18'-11"
b18(E)	6	11'-4"	14'-5"	25'-9"

BAR CUTTING DIAGRAM

South Approach				
Point/Location	Station	Offset	Top	Bottom
A	28+55.04	38.50' Lt.	627.20	626.37
B	28+55.04	0.00'	627.35	626.51
C	28+55.04	38.50' Rt.	626.92	626.09
D	28+65.04	38.50' Lt.	627.20	626.37
E	28+65.04	0.00'	627.35	626.51
F	28+65.04	38.50' Rt.	627.16	626.33

TOP AND BOTTOM ELEVATIONS FOR SOUTH APPROACH FOOTING

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	39	#5	27'-7"	—
a11(E)	15	#5	26'-6"	—
a12(E)	18	#5	23'-7"	—
a13(E)	18	#5	22'-4"	—
a14(E)	39	#5	21'-11"	—
a15(E)	68	#8	22'-9"	—
a16(E)	32	#8	22'-0"	—
a17(E)	32	#8	19'-9"	—
a18(E)	40	#8	18'-11"	—
a19(E)	68	#8	18'-6"	—
a20(E)	4	#5	24'-3"	—
a21(E)	4	#5	12'-11"	—
b10(E)	91	#5	28'-2"	—
b11(E)	2	#5	16'-6"	—
b12(E)	7	#5	17'-11"	—
b13(E)	5	#5	24'-4"	—
b15(E)	145	#9	28'-2"	—
b16(E)	4	#9	17'-4"	—
b17(E)	13	#9	18'-11"	—
b18(E)	6	#9	25'-9"	—
w10(E)	63	#5	27'-7"	—
w11(E)	84	#5	21'-5"	—
t10(E)	156	#4	9'-8"	—
Reinforcement Bars, Epoxy Coated		Pound	39,670	
Concrete Superstructure (Approach Slab)		Cu Yd	89.9	
Concrete Structures		Sq Yd	23.8	
Bridge Deck Grooving		Sq Yd	133	
Protective Coat		Sq Yd	167	

NOTES

- See Sheet S-15 for North Approach Details
- See Sheet S-16 for Section A-A and Cross-Section Details.
- See Sheet S-17 for Sidewalk Details



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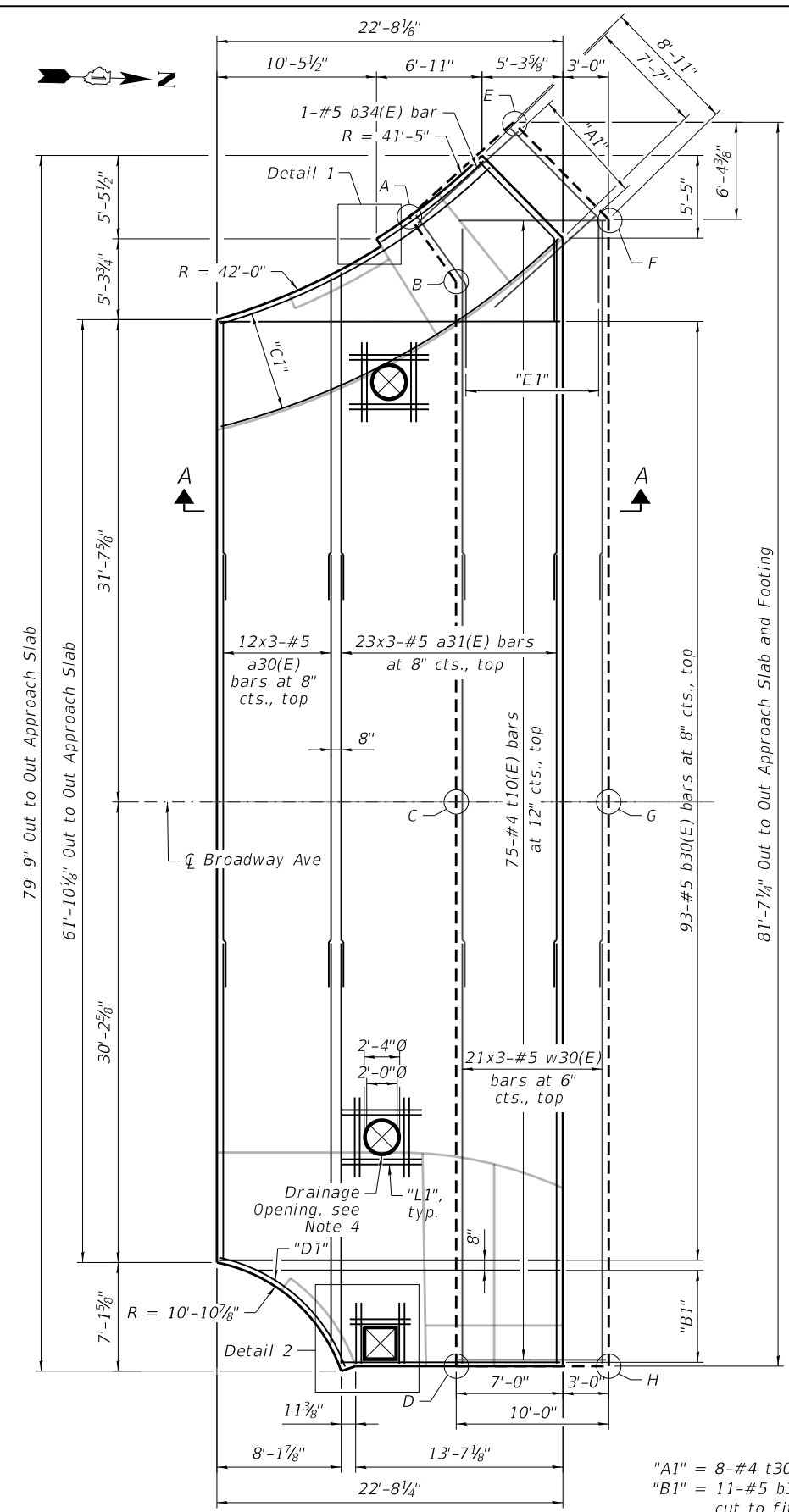
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOUTH APPROACH SLAB DETAILS
 STRUCTURE NO. 016-7483**

SHEET 5-14 OF 5-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	50
CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				

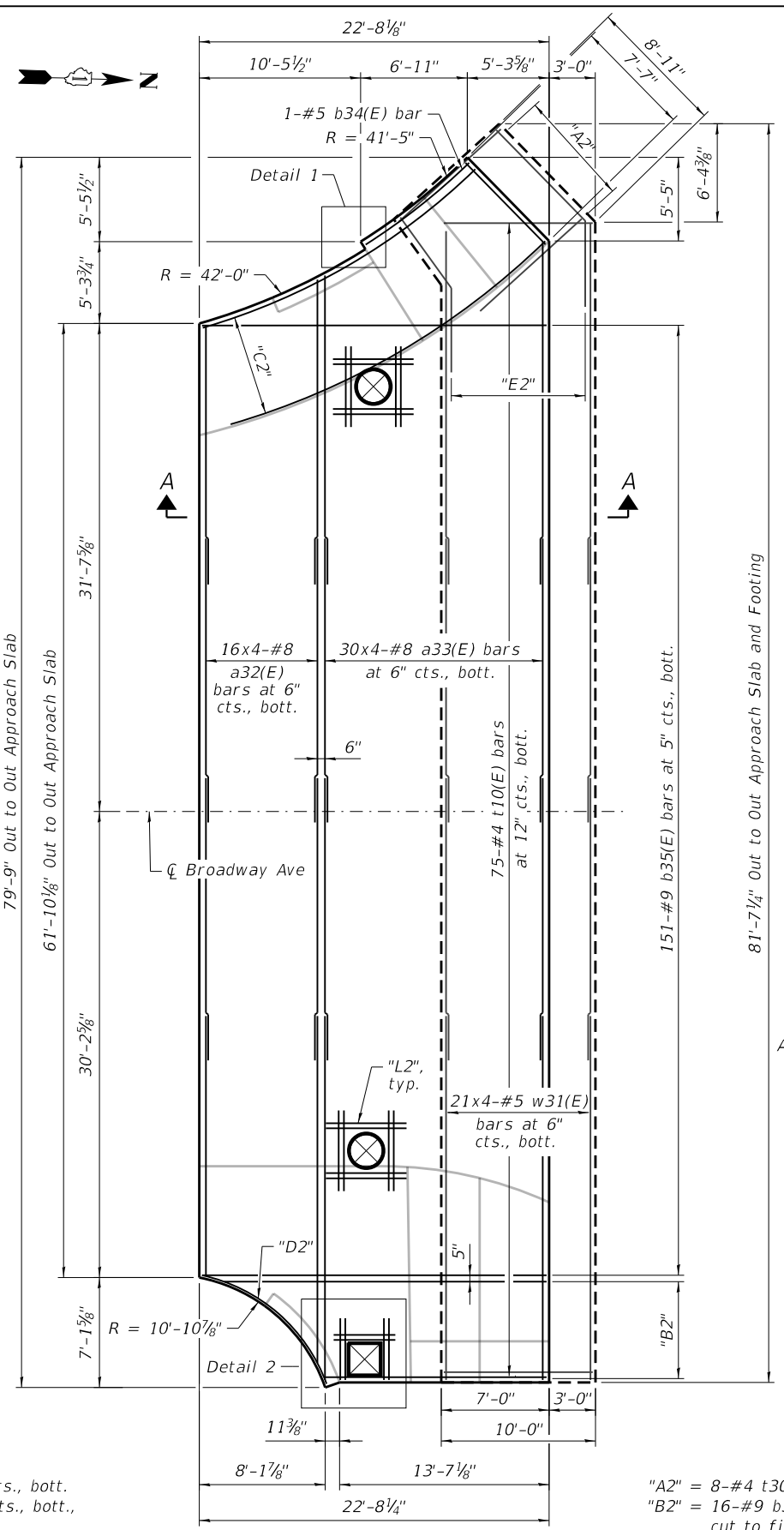
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TOP REBAR PLAN

(Sidewalk reinforcement not shown for clarity)

- "A1" = 8-#4 t30(E) bars at 12" cts., bott.
- "B1" = 11-#5 b31(E) bars at 8" cts., bott., cut to fit.
- "C1" = 10-#5 b32(E) bars at 8" cts., bott., cut and bend to fit.
- "D1" = 1-#5 b33(E) bar, bott.
- "E1" = 21-#5 w32(E) bars at 6" cts., top
- "L1" = 2-#5 a40(E) bars at 4" cts., bott.



BOTTOM REBAR PLAN

(Sidewalk reinforcement not shown for clarity)

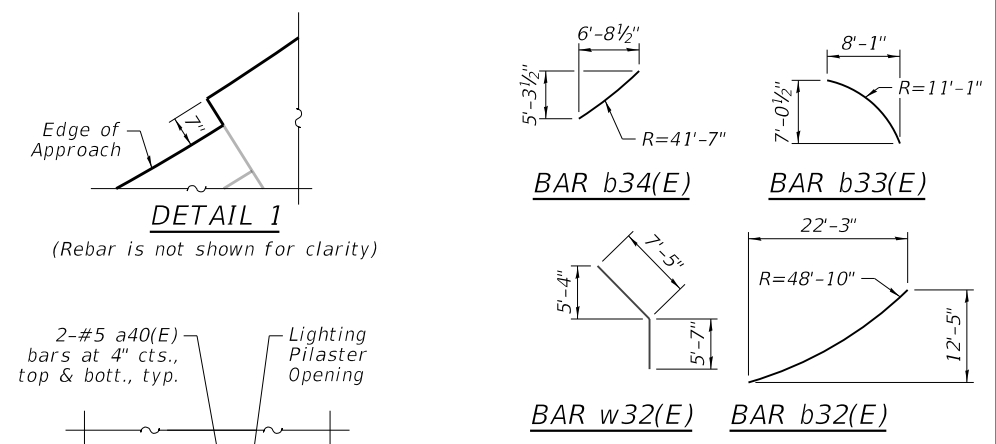
- "A2" = 8-#4 t30(E) bars at 12" cts., bott.
- "B2" = 16-#9 b36(E) bars at 5" cts., bott., cut to fit.
- "C2" = 10-#5 b32(E) bars at 8" cts., bott., cut and bend to fit.
- "D2" = 1-#5 b33(E) bar, bott.
- "E2" = 21-#5 w32(E) bars at 6" cts., bott.
- "L2" = 2-#5 a40(E) bars at 4" cts., bott.

NOTES

1. See Sheet S-14 for South Approach Details.
2. See Sheet S-16 for Section A-A and Cross-Section Details.
3. See Sheet S-17 for Sidewalk Details.
4. Drainage Opening for Type 5 Frame, 1" P.J.F. around opening, see note 5.
5. 1" P.J.F. cost included in Concrete Superstructure (Approach Slab).

North Approach				
Point/Location	Station	Offset	Top	Bottom
A	29+37.15	38.39' Lt.	627.19	626.36
B	29+40.22	34.13' Lt.	627.10	626.27
C	29+40.22	0.00'	627.37	626.53
D	29+40.22	37.02' Rt.	626.89	626.06
E	29+43.98	44.58' Lt.	626.97	626.14
F	29+50.22	38.21' Lt.	627.05	626.22
G	29+50.22	0.00'	627.34	626.50
H	29+50.22	37.02' Rt.	627.06	626.23

TOP AND BOTTOM ELEVATIONS FOR NORTH APPROACH FOOTING



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a30(E)	36	#5	25'-4"	—	
a31(E)	69	#5	26'-10"	—	
a32(E)	64	#8	21'-1"	—	
a33(E)	120	#8	23'-4"	—	
a40(E)	44	#5	4'-0"	—	
b30(E)	93	#5	22'-4"	—	
b31(E)	11	#5	19'-10"	—	
b32(E)	20	#5	25'-9"	—	
b33(E)	2	#5	11'-2"	—	
b34(E)	2	#5	8'-7"	—	
b35(E)	151	#9	22'-4"	—	
b36(E)	16	#9	20'-11"	—	
w30(E)	63	#5	26'-11"	—	
w31(E)	84	#5	21'-0"	—	
w32(E)	42	#5	13'-0"	—	
t10(E)	150	#4	9'-8"	—	
t30(E)	16	#4	8'-11"	—	
Reinforcement Bars, Epoxy Coated				Pound	34,970
Concrete Superstructure (Approach Slab)				Cu Yd	76.9
Concrete Structures				Sq Yd	24.6
Bridge Deck Grooving				Sq Yd	177
Protective Coat				Sq Yd	133

MINIMUM BAR LAP

#5 bar = 3'-0"
#8 bar = 4'-9"

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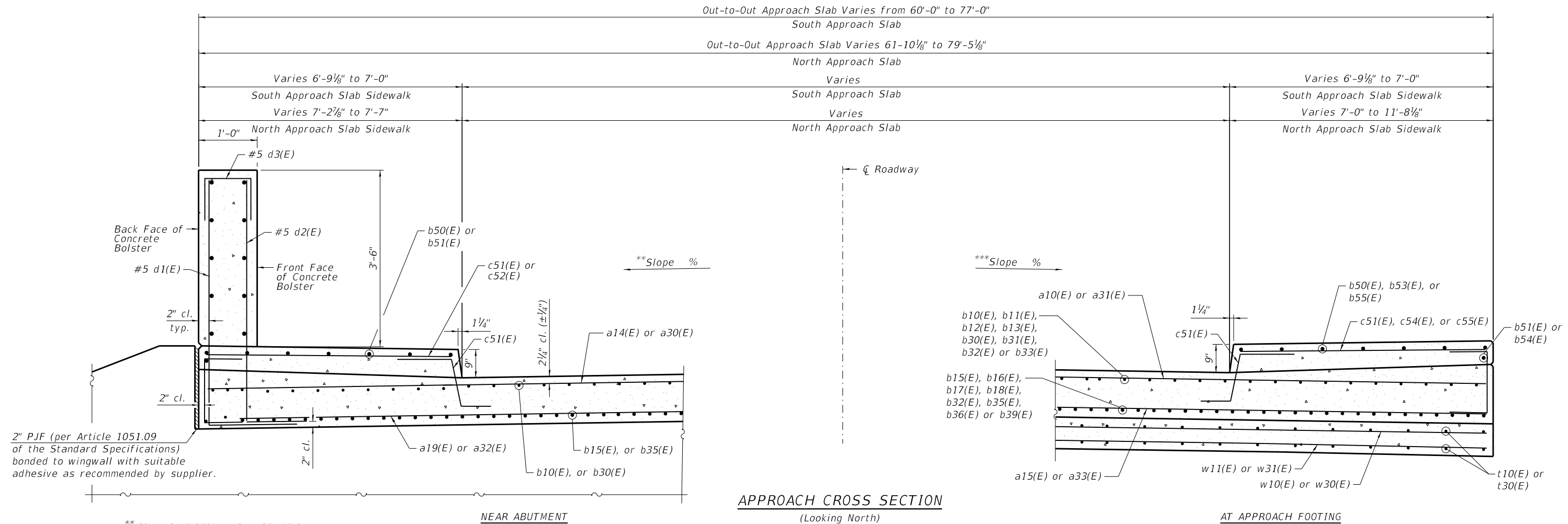
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NORTH APPROACH SLAB DETAILS
STRUCTURE NO. 016-7483**

SHEET 5-15 OF 5-28 SHEETS

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 51
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



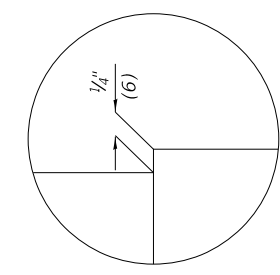
2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier.

** Slope is 0.90% at Sta. 28+58.04
Slope is 1.50% at Sta. 28+70.75
and remains as such until Sta. 29+35.37
Slope is 0.75% at Sta. 29+47.22

*** Slope is 1.10% at Sta. 28+58.04
Slope is 1.50% at Sta. 28+70.75
and remains as such until Sta. 29+35.37
Slope is 1.00% at Sta. 29+47.22

APPROACH CROSS SECTION
(Looking North)

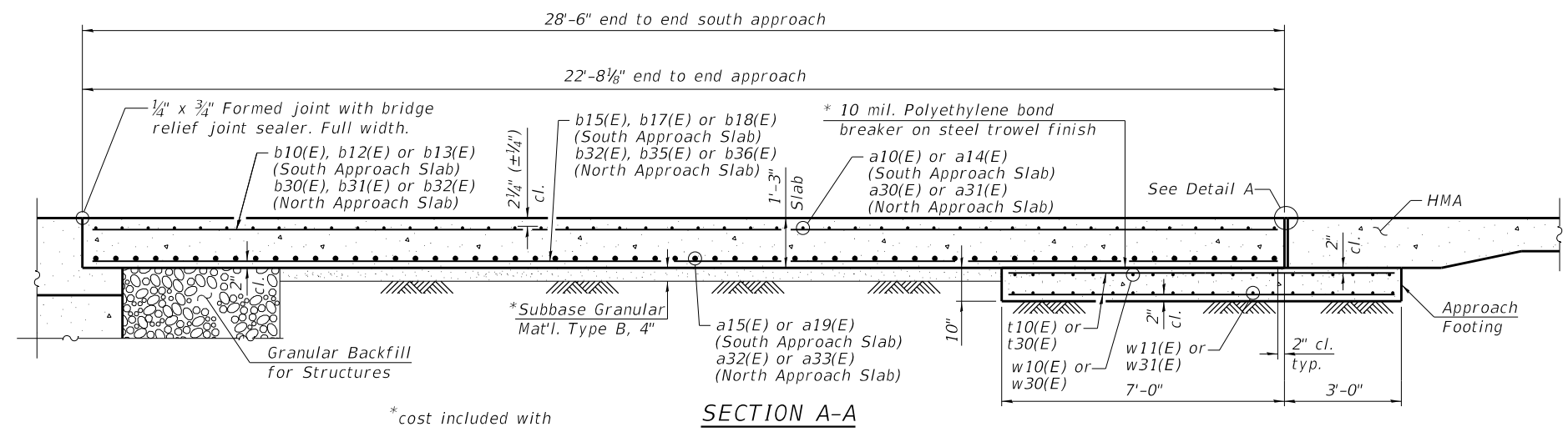
AT APPROACH FOOTING



DETAIL A

NOTES

1. Parapet concrete shall be paid for as Concrete Superstructure.
2. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
3. Approach footing concrete shall be paid for as Concrete Structures.
4. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
5. Cost of excavation for approach footing included with Concrete Structures.
6. For Granular Backfill for Structures and drainage treatment details, see Sheets S-19 thru S-24.



* cost included with concrete superstructure

SECTION A-A

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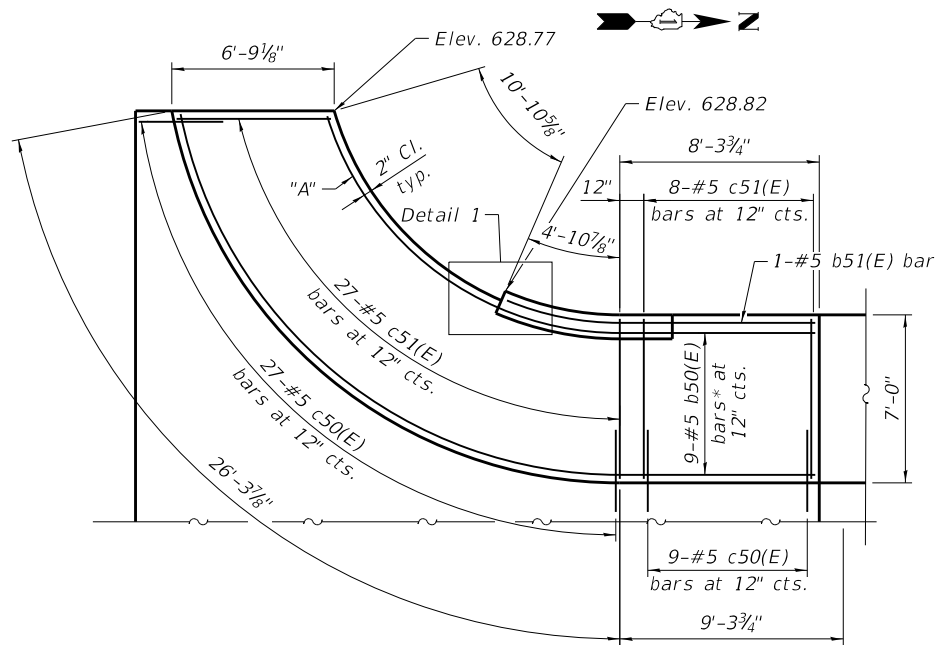
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

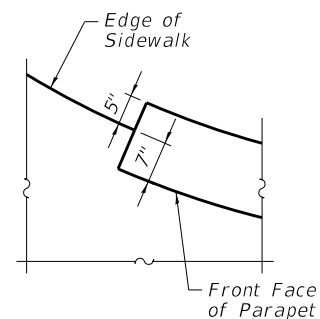
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 016-7483

SHEET 5-16 OF 5-28 SHEETS

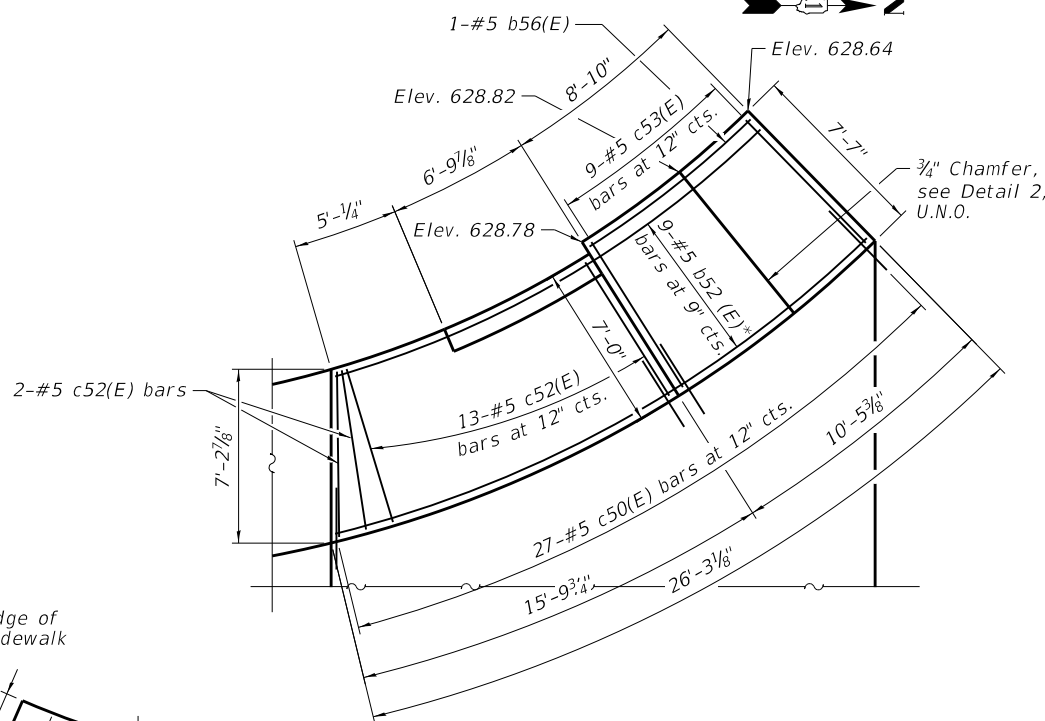
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CONTRACT NO.			61148	
ILLINOIS		FED. AID PROJECT		



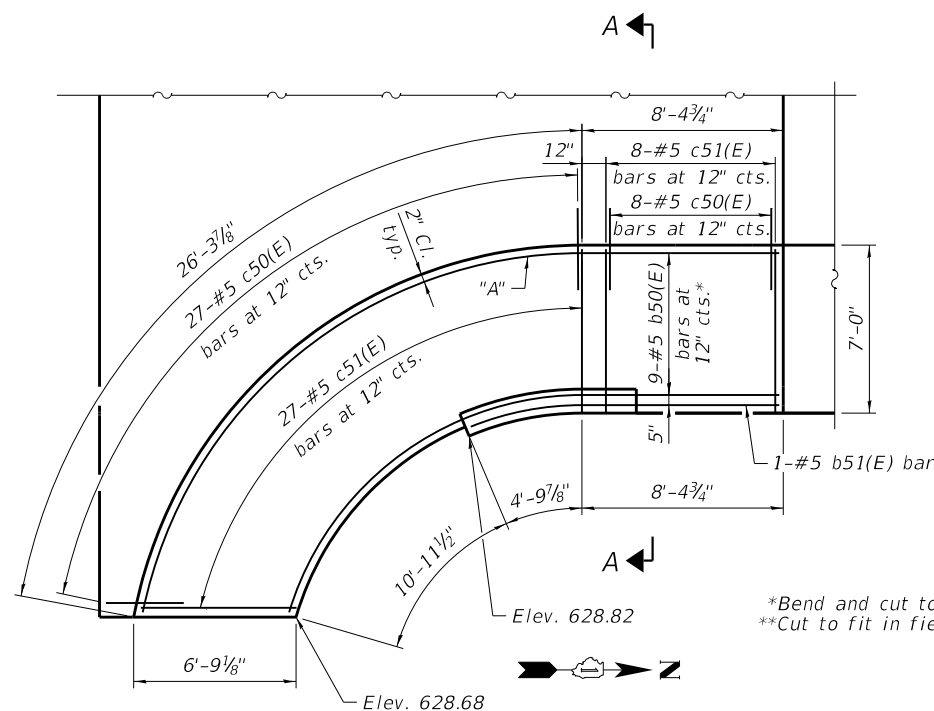
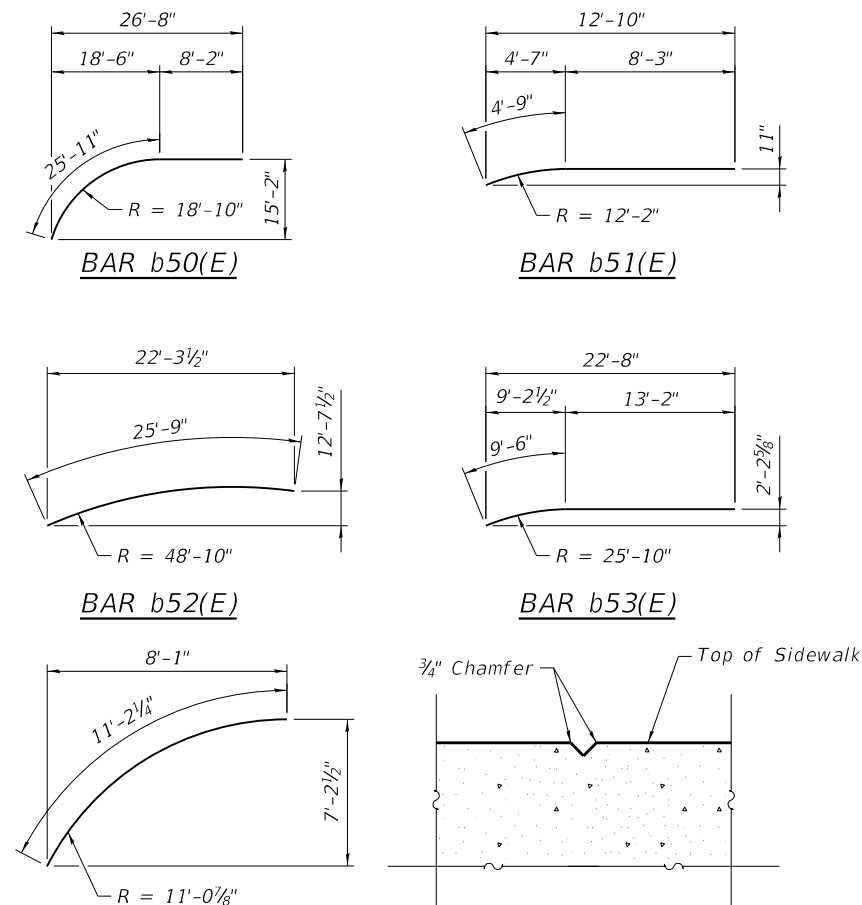
SOUTHWEST SIDEWALK DETAILS



DETAIL 1
Southwest end shown,
other corners are similar



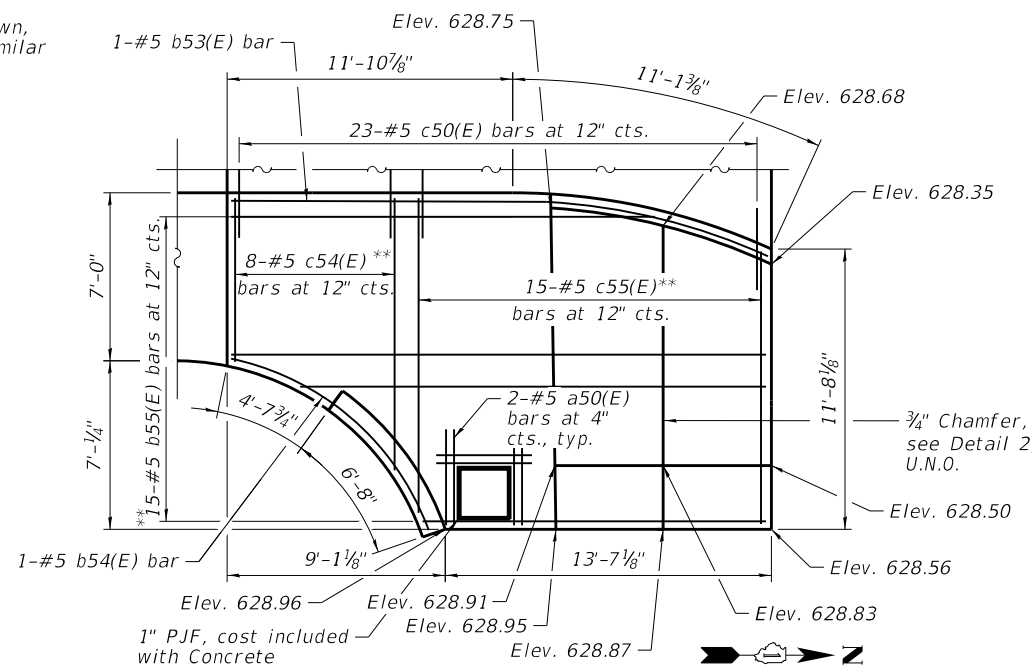
NORTHWEST SIDEWALK DETAILS



SOUTHEAST SIDEWALK DETAILS

*Bend and cut to fit in field
**Cut to fit in field

"A" = 1-#5 b50(E) additional bar, Each End



NORTHEAST SIDEWALK DETAILS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a50(E)	6	#5	4'-0"	—	
b50(E)	18	#5	34'-1"	⤴	
b51(E)	2	#5	13'-0"	—	
b52(E)	9	#5	25'-9"	⤴	
b53(E)	1	#5	22'-8"	—	
b54(E)	1	#5	12'-2"	⤴	
b55(E)	15	#5	22'-4"	—	
b56(E)	1	#5	8'-7"	—	
c50(E)	120	#5	3'-6"	⤴	
c51(E)	70	#5	6'-8"	—	
c52(E)	15	#5	6'-11"	—	
c53(E)	9	#5	7'-3"	—	
c54(E)	8	#5	11'-7"	—	
c55(E)	15	#5	13'-8"	—	
Reinforcement Bars, Epoxy Coated				Pound	2,740
Concrete Superstructure				Cu Yd	22.7
Protective Coat				Sq Yd	102

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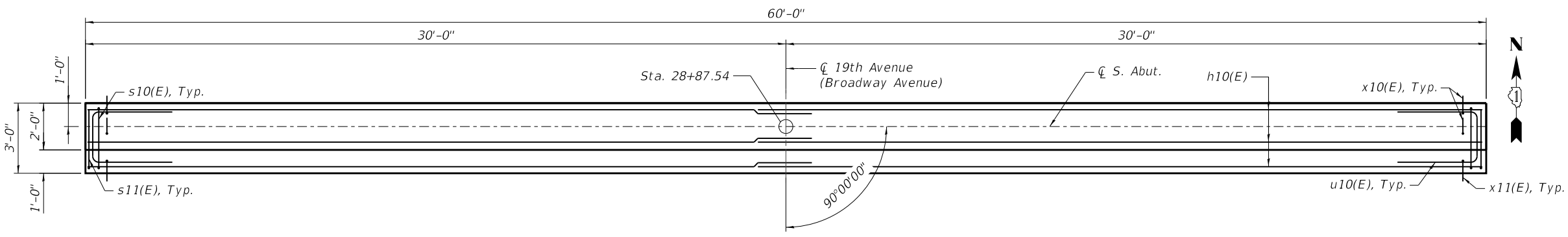
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

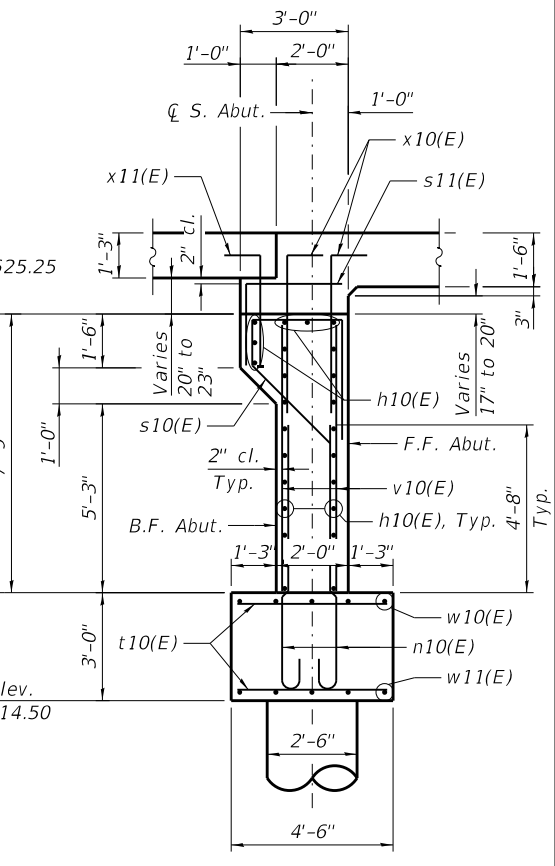
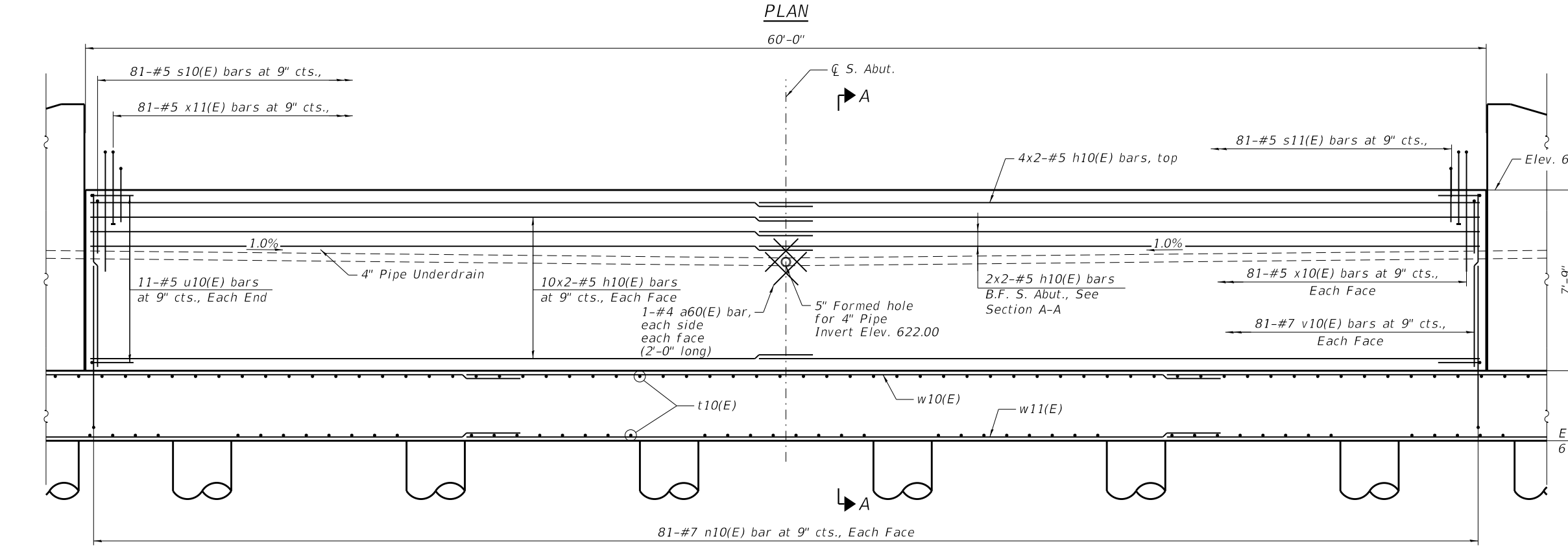
APPROACH SLAB SIDEWALK DETAILS
STRUCTURE NO. 016-7483

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 53
CONTRACT NO. 61148			ILLINOIS FED. AID PROJECT	

SHEET 5-17 OF 5-28 SHEETS

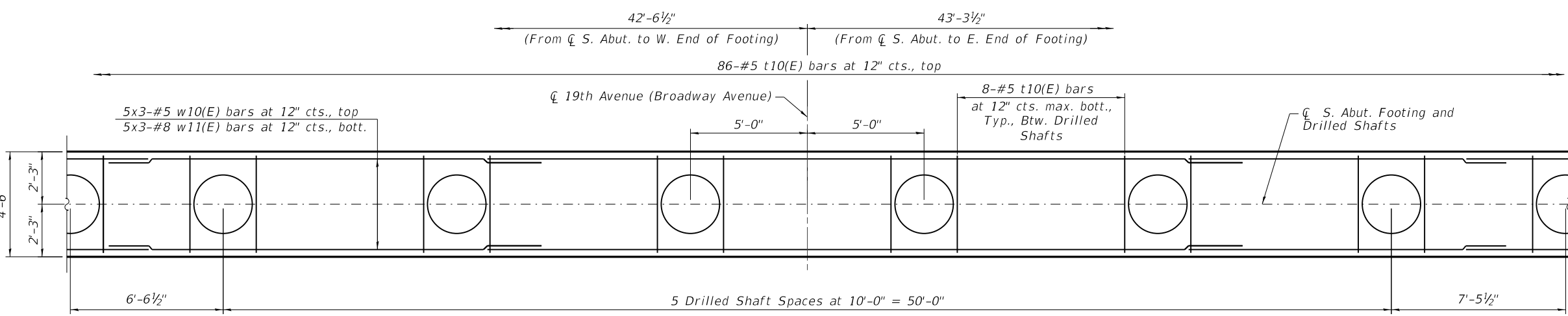


MINIMUM BAR LAP
 #5 bar = 3'-4"
 #7 bar = 4'-8"
 #8 bar = 5'-4"



ELEVATION
(Looking South)

SECTION A-A



FOOTING PLAN

- NOTES:**
1. For Drilled Shaft Details, see Sheet S-25.
 2. For Bar Bend Details and Bill of Material, see Sheet S-19.
 3. For Wingwall Details, see Sheets S-22 and S-24.

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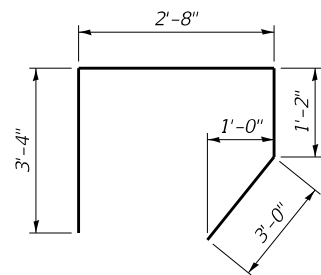
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

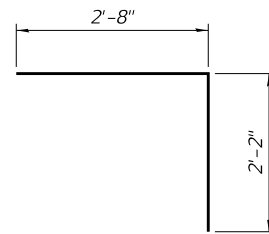
SOUTH ABUTMENT DETAILS I
STRUCTURE NO. 016-7483

SHEET 5-18 OF 5-28 SHEETS

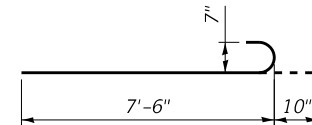
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2406	16-00131-00-BR	COOK	102	54
CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				



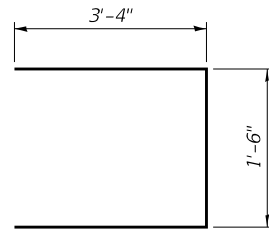
BAR s10(E)



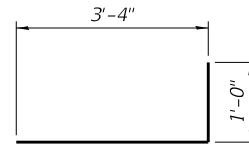
BAR s11(E)



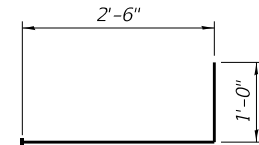
BARS n10(E)



BAR u10(E)



BAR x10(E)



BAR x11(E)
(Headed)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a60(E)	8	#5	2'-0"	—
h10(E)	52	#5	31'-6"	—
n10(E)	162	#7	8'-4"	⌒
s10(E)	81	#5	10'-2"	┌┐
s11(E)	81	#5	4'-10"	┌┐
t10(E)	158	#5	4'-2"	—
u10(E)	22	#5	8'-2"	┌┐
v10(E)	162	#7	7'-5"	—
w10(E)	15	#5	30'-9"	—
w11(E)	15	#8	32'-1"	—
x10(E)	162	#5	4'-4"	┌┐
x11(E)	81	#5	3'-6"	┌┐
Structure Excavation			Cu Yd	250
Concrete Structures			Cu Yd	81.9
Reinforcement Bars, Epoxy Coated			Pound	11,880
Geocomposite Wall Drain			Sq Yd	37
Granular Backfill for Structures			Cu Yd	40
Pipe Underdrains for Structures, 4"			Foot	60

NOTE:

- Entire abutment footing Concrete Structures and Reinforcement Bars, Epoxy Coated is billed here.

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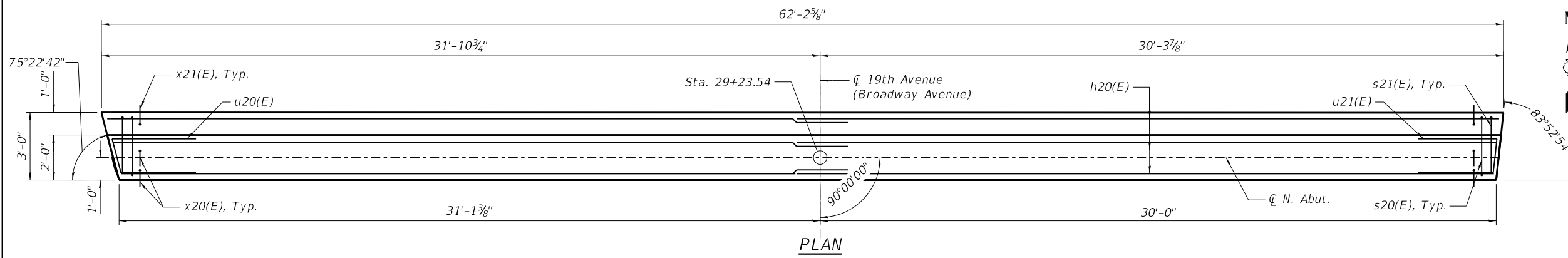
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

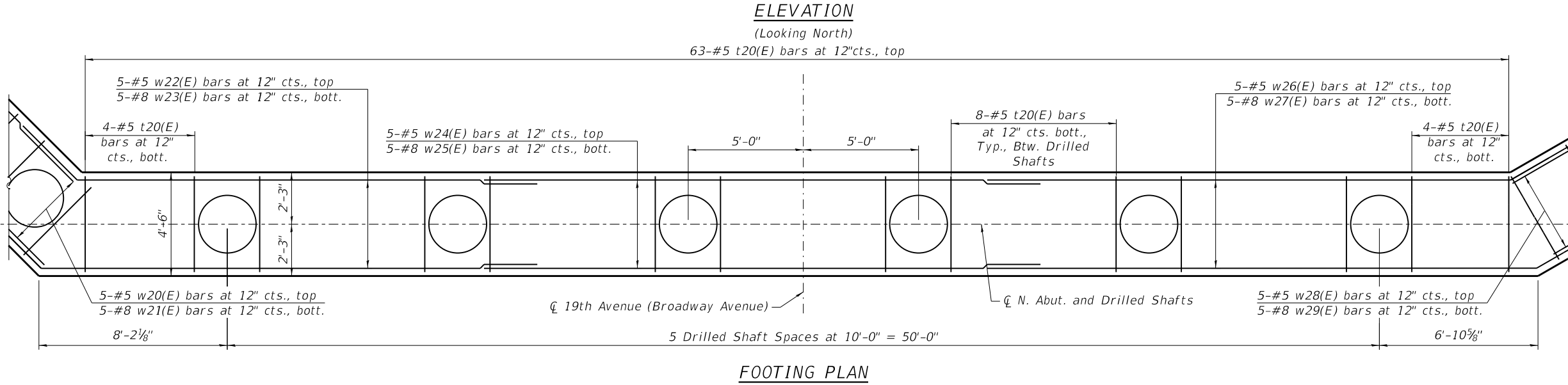
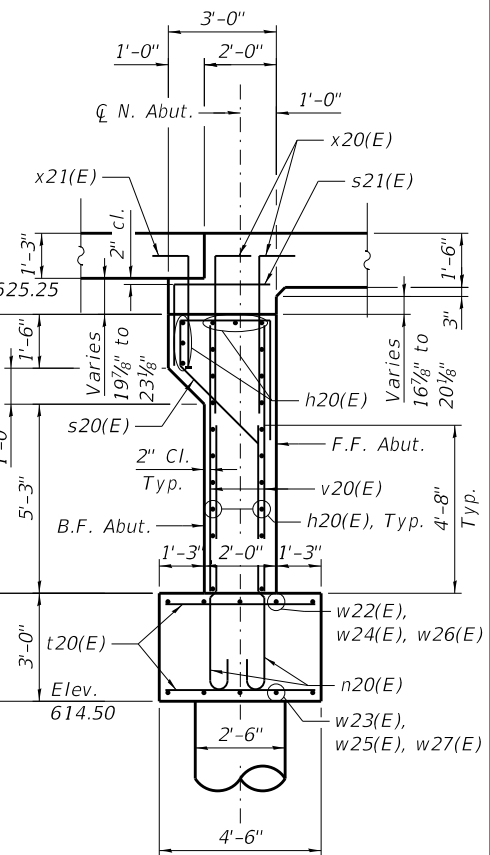
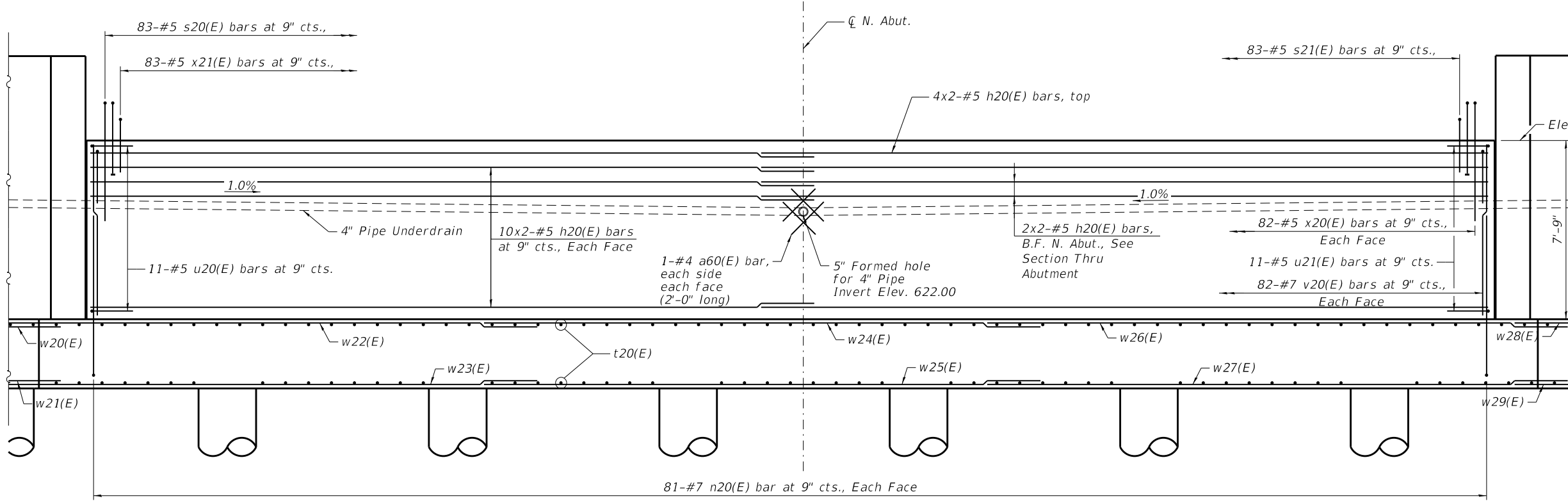
**SOUTH ABUTMENT DETAILS II
STRUCTURE NO. 016-7483**

SHEET 5-19 OF 5-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	55
CONTRACT NO.			61148	
ILLINOIS		FED. AID PROJECT		



- NOTES:**
1. For Drilled Shaft Details, see Sheet S-25.
 2. For Bar Bend Details and Bill of Material, see Sheet S-21.
 3. For Wingwall Details, see Sheets S-23 and S-24.



- MINIMUM BAR LAP**
- #5 bar = 3'-4"
 - #7 bar = 4'-8"
 - #8 bar = 5'-4"

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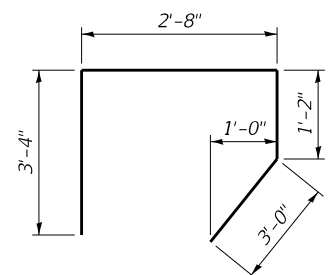


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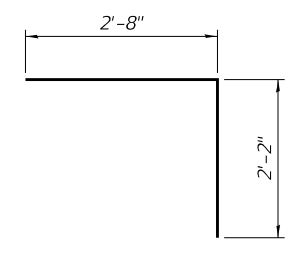
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS I
STRUCTURE NO. 016-7483
 SHEET S-20 OF S-28 SHEETS

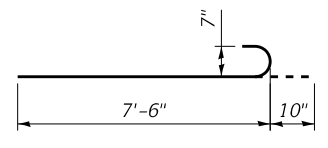
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CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				



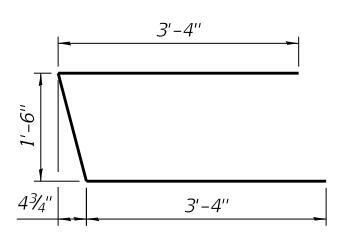
BAR s20(E)



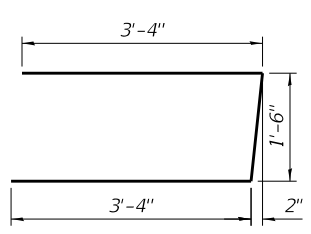
BAR s21(E)



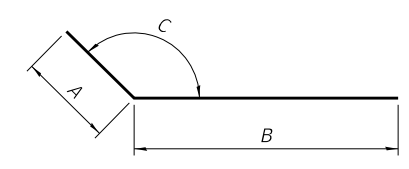
BARS n20(E)



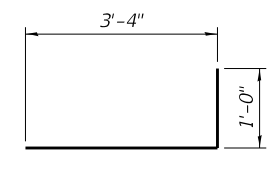
BAR u20(E)



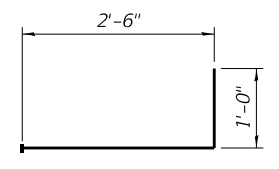
BAR u21(E)



BARS w22(E), w23(E), w26(E), and w27(E)



BAR x20(E)



**BAR x21(E)
(Headed)**

Bar	A	B	C
w22(E)	3'-4"	20'-8"	135°00'00"
w23(E)	5'-4"	20'-0"	135°00'00"
w26(E)	3'-4"	20'-8"	150°00'00"
w27(E)	5'-4"	20'-0"	150°00'00"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a60(E)	8	#4	2'-0"	—
h20(E)	52	#5	32'-7"	—
n20(E)	162	#7	8'-4"	—
s20(E)	83	#5	10'-2"	—
s21(E)	83	#5	4'-10"	—
t20(E)	148	#5	4'-2"	—
u20(E)	11	#5	8'-2"	—
u21(E)	11	#5	8'-2"	—
v20(E)	164	#7	7'-5"	—
w20(E)	5	#5	10'-1"	—
w21(E)	5	#8	10'-1"	—
w22(E)	5	#5	24'-0"	—
w23(E)	5	#8	25'-4"	—
w24(E)	5	#5	30'-0"	—
w25(E)	5	#8	35'-4"	—
w26(E)	5	#5	24'-0"	—
w27(E)	5	#8	25'-4"	—
w28(E)	5	#5	12'-9"	—
w29(E)	5	#8	12'-9"	—
x20(E)	164	#5	4'-4"	—
x21(E)	83	#5	3'-6"	—
Structure Excavation			Cu Yd	215
Concrete Structures			Cu Yd	82.4
Reinforcement Bars, Epoxy Coated			Pound	12,180
Geocomposite Wall Drain			Sq Yd	38
Granular Backfill for Structures			Cu Yd	41
Pipe Underdrains for Structures, 4"			Foot	63

NOTE:

1. Entire abutment footing Concrete Structures and Reinforcement Bars, Epoxy Coated is billed here.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

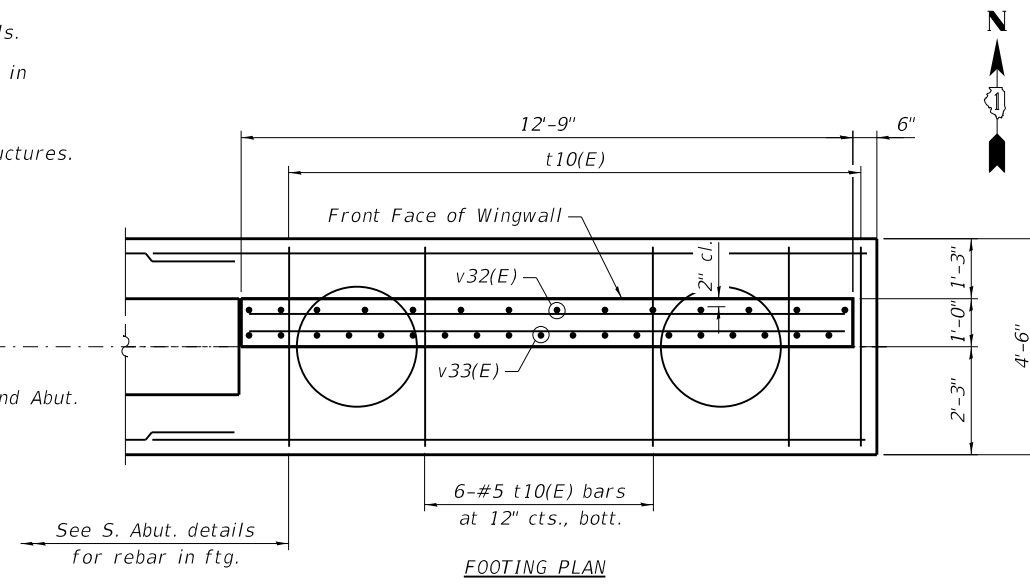
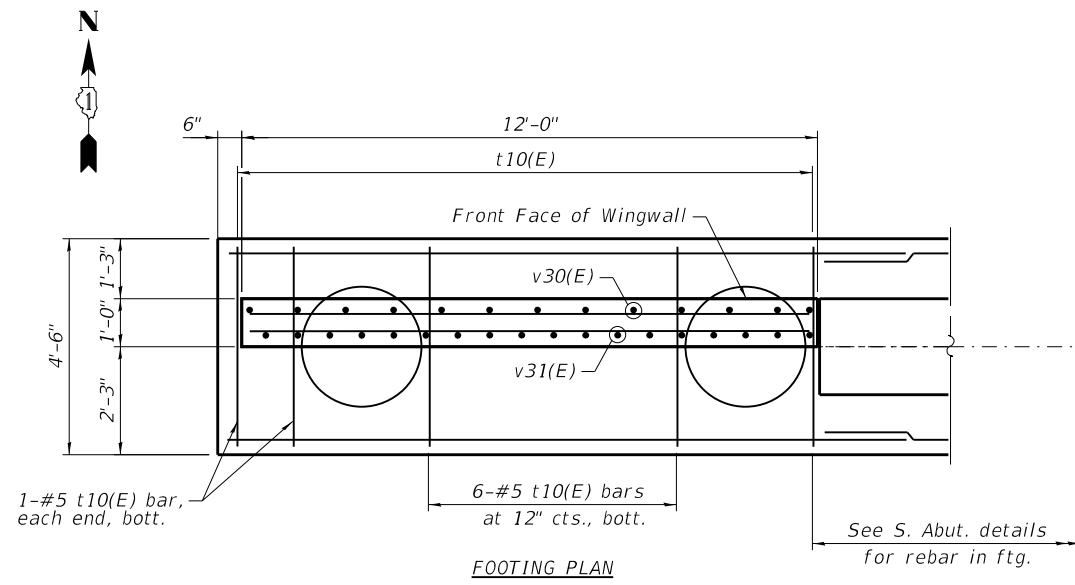
**NORTH ABUTMENT DETAILS II
STRUCTURE NO. 016-7483**

SHEET 5-21 OF 5-28 SHEETS

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 57
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61148	

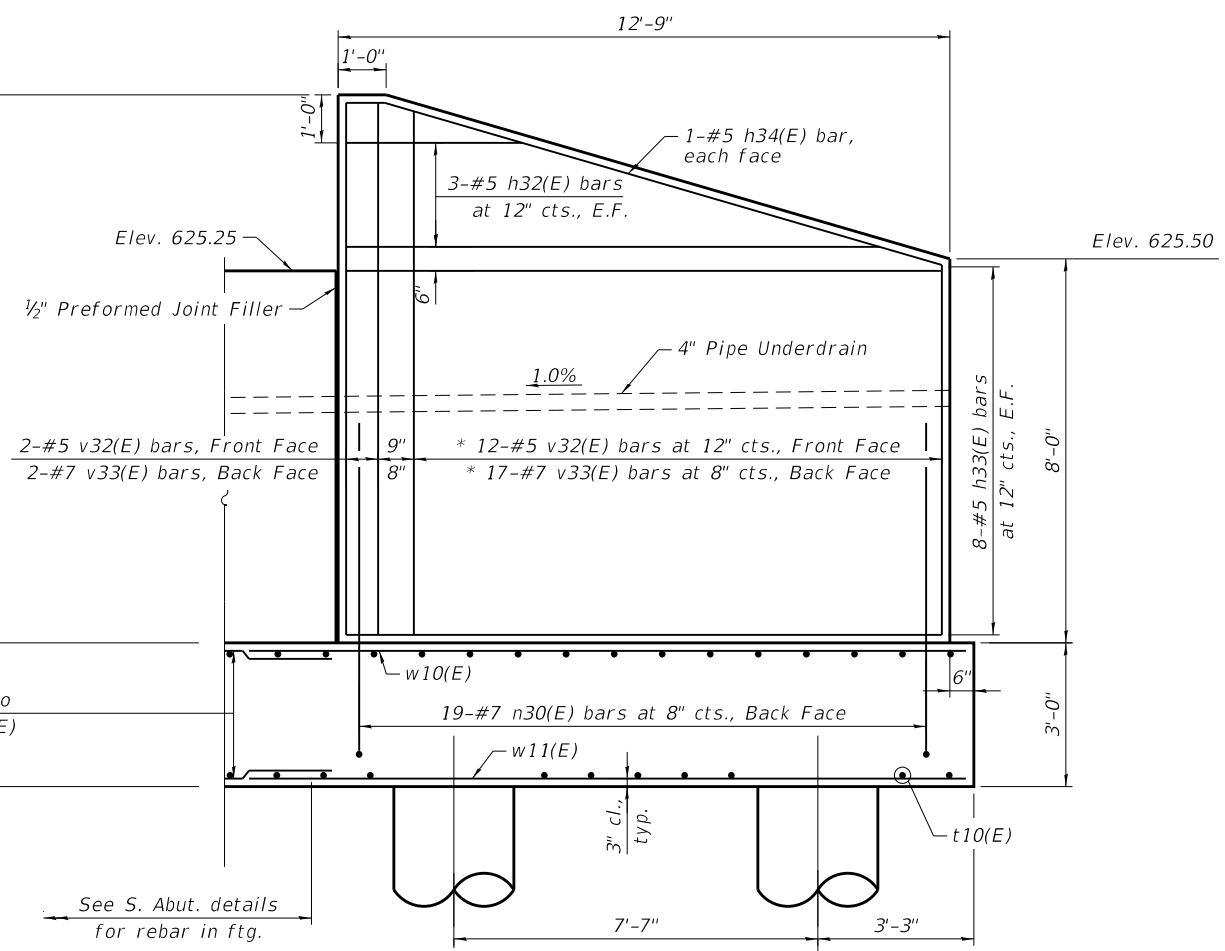
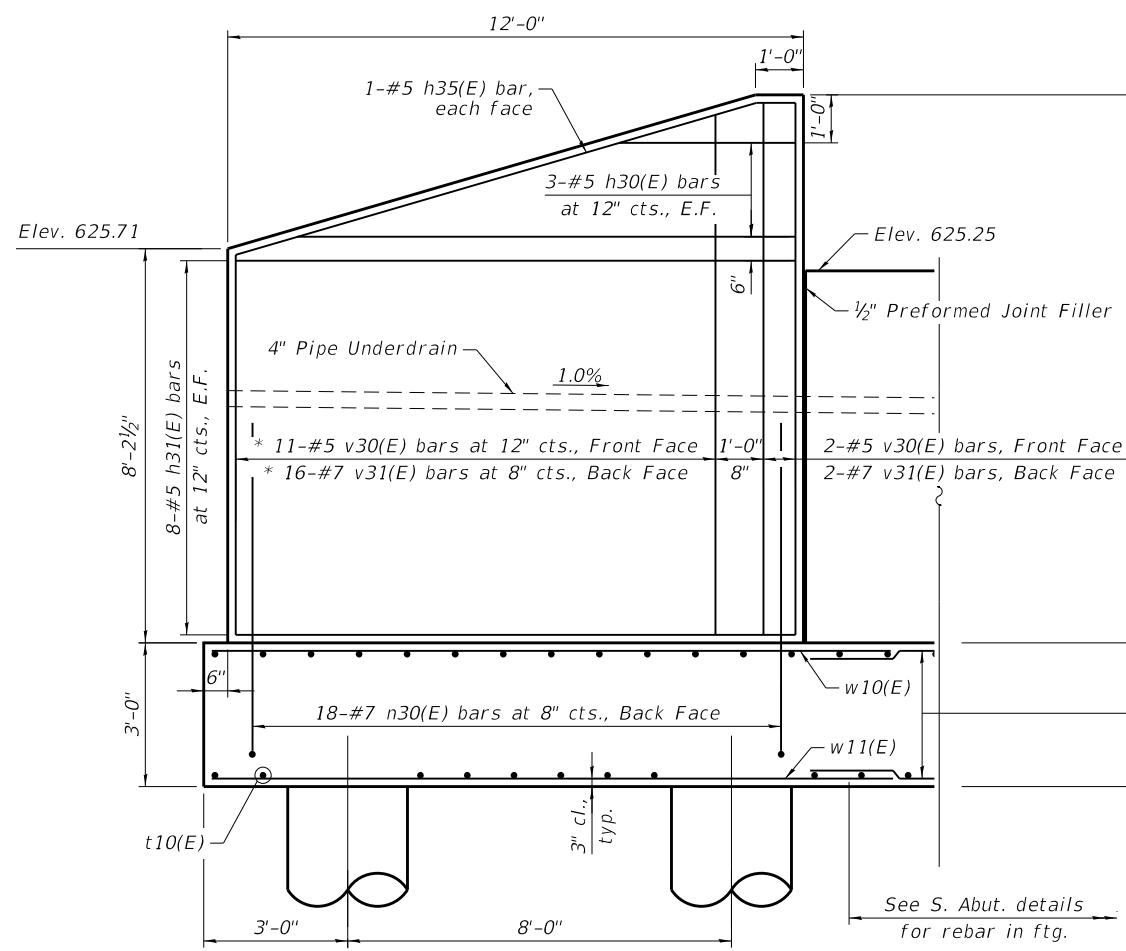
NOTES:

1. See Sheet S-24 for Wingwall Section, Bar Bending Diagrams, and Bill of Materials.
2. See Sheets S-18 and S-19 for South Abutment details.
3. See Sheet S-25 for Drilled Shaft details.
4. Bars t10(E), w10(E) and w11(E) included in the Bill of Material for South Abutment, see Sheet S-19.
5. Cost of PJF included with Concrete Structures.



MINIMUM BAR LAP

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



SOUTHWEST WINGWALL

SOUTHEAST WINGWALL

* Field cut bars to fit.

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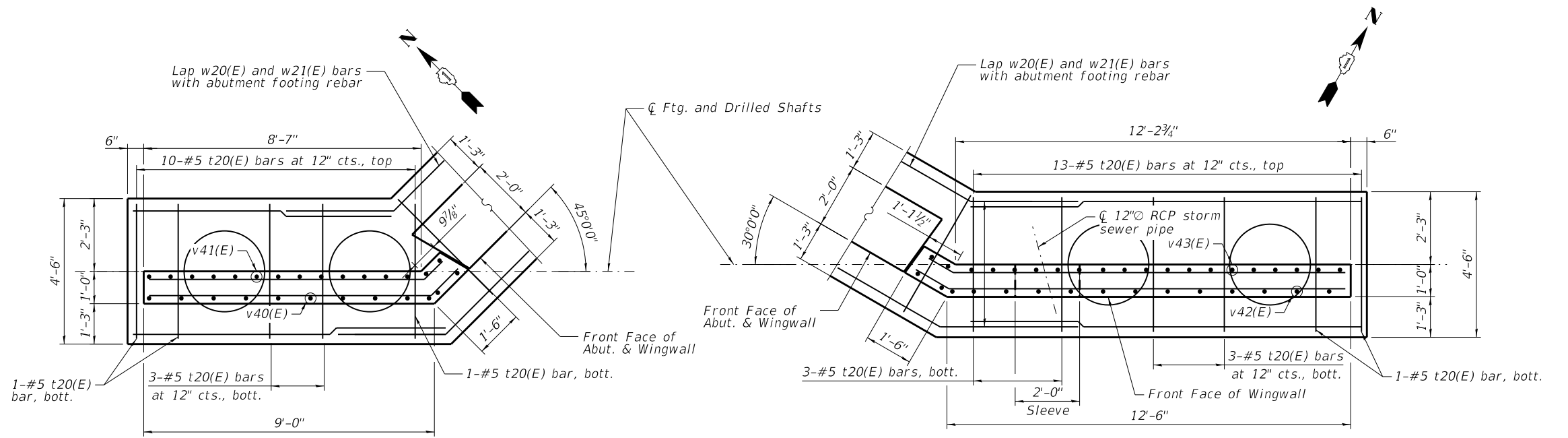
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	DATE - 2/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH WINGWALLS
STRUCTURE NO. 016-7483**

SHEET 5-22 OF 5-28 SHEETS

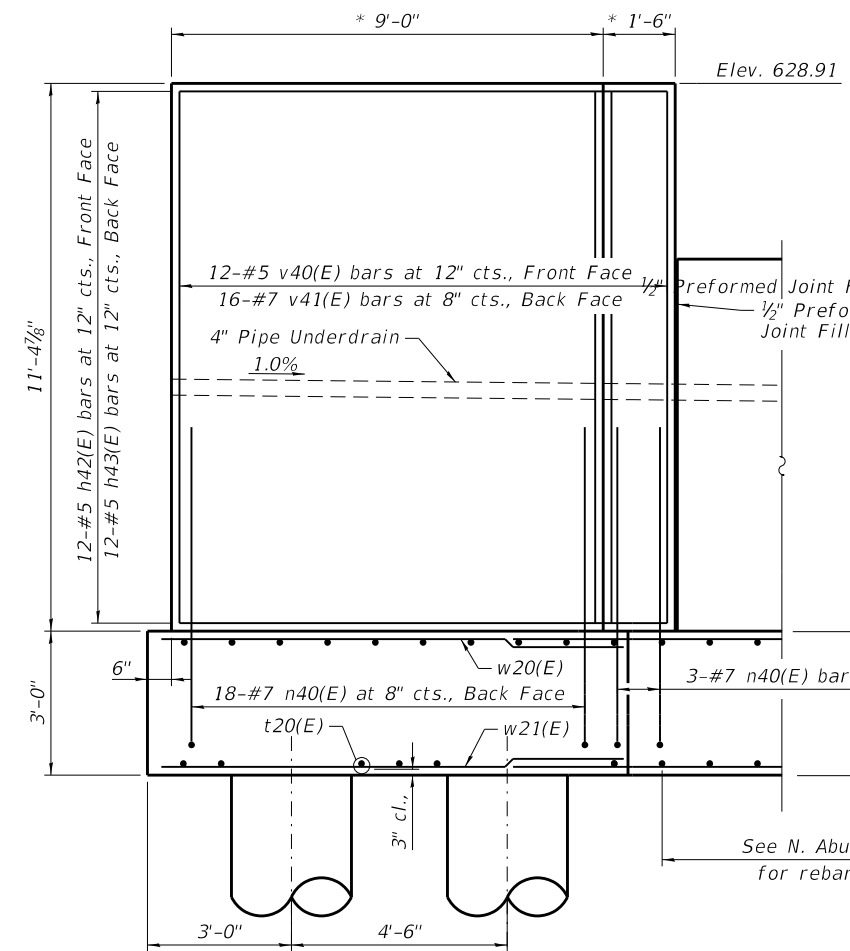
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CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



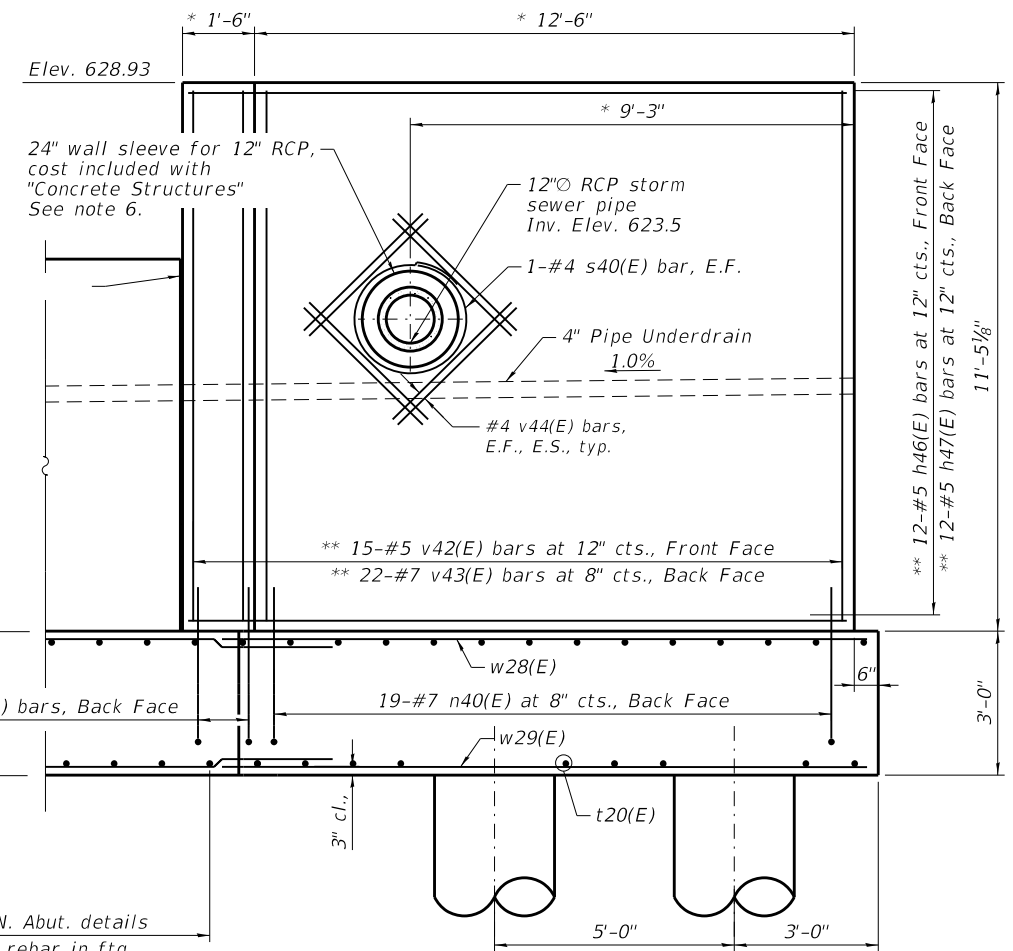
FOOTING PLAN

MINIMUM BAR LAP
 #7 bar = 4'-8"
 #5 bar = 3'-4"

FOOTING PLAN



ELEVATION
 (Unfolded View)
 NORTHWEST WINGWALL



ELEVATION
 (Unfolded View)
 NORTHEAST WINGWALL

* Measured along front face of wall.
 ** Cut bars to fit pipe.

NOTES:

1. See Sheet S-24 for Wingwall Section, Bar Bending Diagrams and Bill of Material.
2. See Sheet S-20 and S-21 for North Abutment Details.
3. See Sheet S-25 for Drill Shaft details.
4. Bars t20(E), w20(E), w21(E), w28(E), and w29(E) included in the Bill of Material for North Abutment, see Sheet S-21.
5. Cost of PJF included with Concrete Structures.
6. Pipe to be cut flush with front face of wingwall. Fill annular space with non-shrink grout. Cost included with "Concrete Structures."

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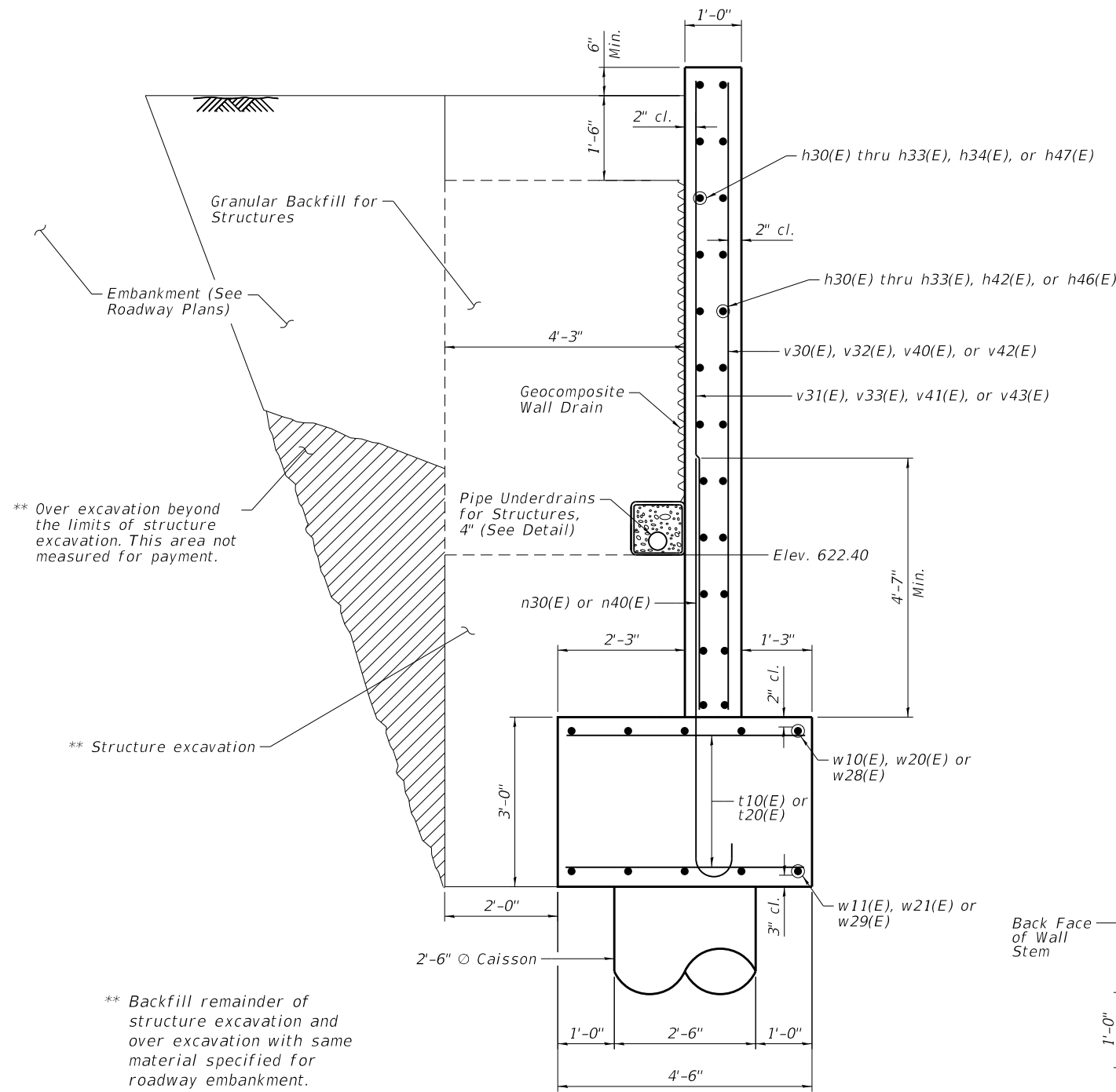
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

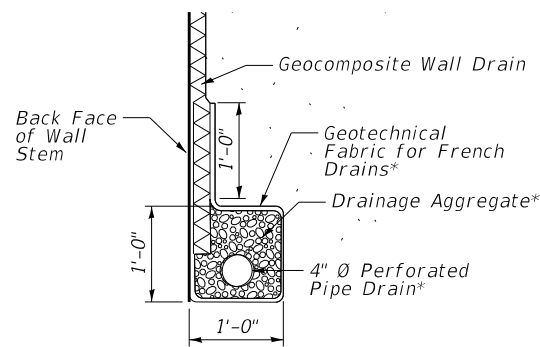
NORTH WINGWALLS
 STRUCTURE NO. 016-7483

SHEET S-23 OF S-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				

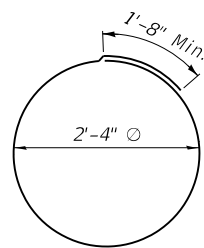


TYPICAL SECTION THRU WINGWALL

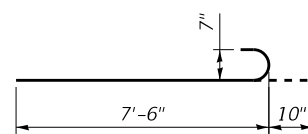


PIPE UNDERDRAIN DETAIL

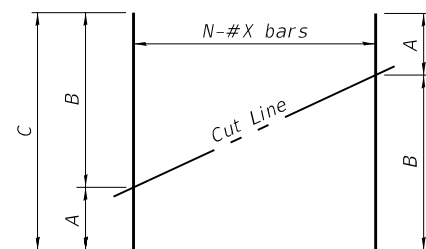
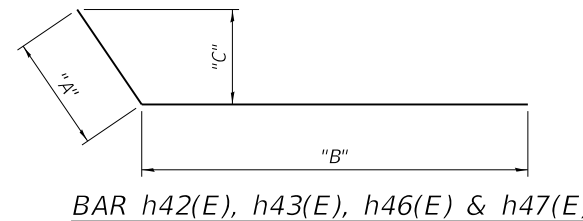
* Included in the cost of Pipe Underdrains for Structures



BAR s40(E)



BAR n30(E) & n40(E)



FIELD CUTTING DIAGRAM

Order bars full length. Cut as shown and use remainder of bars in opposite face of wingwall.

BARS	BAR LENGTH			Total Length
	"A"	"B"	"C"	
h34(E)	10"	12'-1"	3"	12'-11"
h35(E)	10"	11'-4"	3"	12'-2"
h42(E)	1'-2"	8'-9"	10"	9'-11"
h43(E)	9"	8'-6"	6 1/2"	9'-3"
h46(E)	1'-3"	12'-4"	7 1/2"	13'-7"
h47(E)	1'-0"	12'-1"	7"	13'-1"

BARS	N	X	A	B	C
h30(E)	3	5	3'-8"	10'-5"	14'-1"
h32(E)	3	5	3'-8"	11'-2"	14'-10"

SOUTH WINGWALLS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h30(E)	3	#5	14'-1"	—
h31(E)	16	#5	11'-8"	—
h32(E)	3	#5	14'-10"	—
h33(E)	16	#5	12'-5"	—
h34(E)	2	#5	12'-11"	—
h35(E)	2	#5	12'-2"	—
n30(E)	37	#7	8'-4"	C
v30(E)	13	#5	11'-1"	—
v31(E)	18	#7	11'-1"	—
v32(E)	14	#5	11'-1"	—
v33(E)	19	#7	11'-1"	—
s40(E)	2	#4	9'-0"	O
Reinforcement Bars, Epoxy Coated			Pound	2,330
Concrete Structures			Cu Yd	9.2
Geocomposite Wall Drain			Sq Yd	10
Granular Backfill for Structures			Cu Yd	10
Pipe Underdrains for Structures, 4"			Foot	26

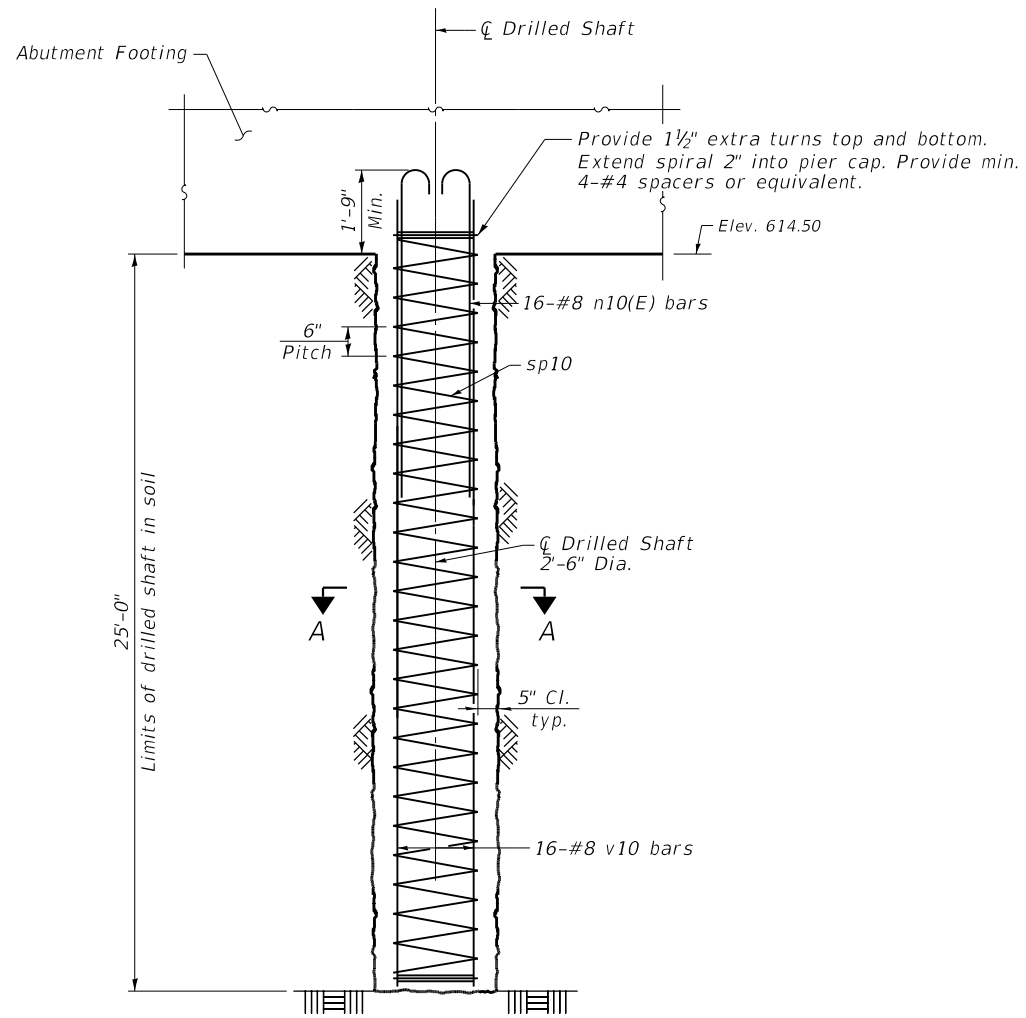
NORTH WINGWALLS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h42(E)	12	#5	9'-11"	—
h43(E)	12	#5	9'-3"	—
h46(E)	12	#5	13'-7"	—
h47(E)	12	#5	13'-1"	—
n40(E)	38	#7	8'-4"	C
v40(E)	12	#5	11'-1"	—
v41(E)	16	#7	11'-1"	—
v42(E)	15	#5	11'-1"	—
v43(E)	22	#7	11'-1"	—
v44(E)	16	#4	3'-6"	—
s40(E)	2	#4	9'-0"	O
Reinforcement Bars, Epoxy Coated			Pound	2,450
Concrete Structures			Cu Yd	10.1
Geocomposite Wall Drain			Sq Yd	14
Granular Backfill for Structures			Cu Yd	17
Pipe Underdrains for Structures, 4"			Foot	23

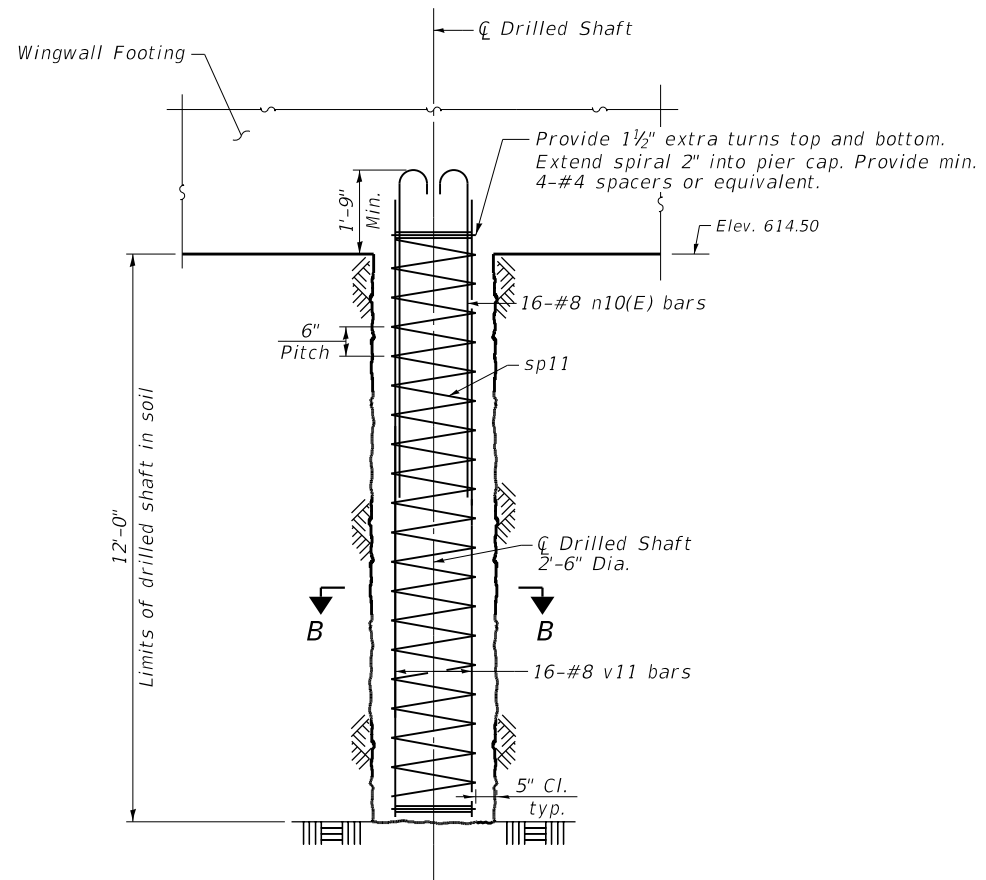
NOTES

- Concrete Structures for footing of each wingwall is included with their respective abutments; see Sheets S-19 and S-21.
- Structure Excavation quantity for wingwalls are included with their respective abutments; see Sheets S-19 and S-21.

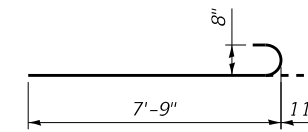
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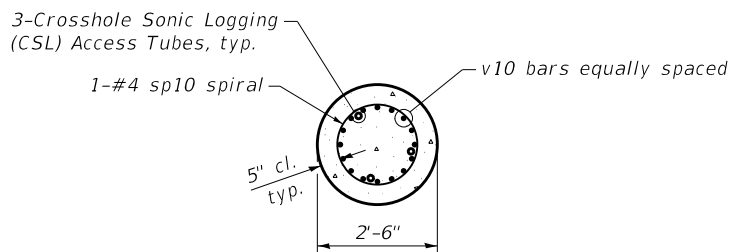
ABUTMENT SHAFT ELEVATION



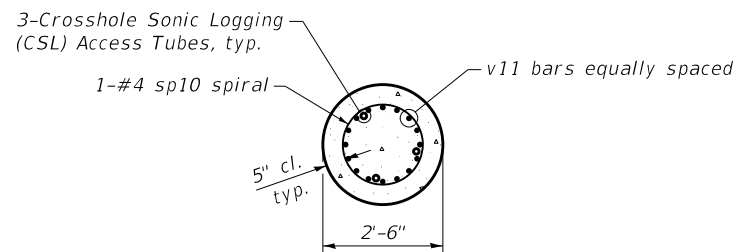
WINGWALL SHAFT ELEVATION



BAR n10(E)



SECTION A-A



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n10(E)	320	#8	8'-8"	—
v10	256	#8	26'-3"	—
v11	64	#8	13'-3"	—
*sp10	16	#4	26'-0"	~~~~~
*sp11	4	#4	13'-0"	~~~~~
Drilled Shaft In Soil			Cu Yd	73
Reinforcement Bars			Pound	20,520
Reinforcement Bars, Epoxy Coated			Pound	7,410
Crosshole Sonic Logging Access Ducts			Foot	1,188
Crosshole Sonic Logging Testing			Each	4

* Length is height of spiral

NOTES:

- For Abutment details, see Sheets S-18 thru S-21.
- For Wingwall details, see Sheets S-22 thru S-24.
- All drilled shafts shall have Crosshole Sonic Logging Access Ducts.
- Reinforcement bars designated as (E) shall be epoxy coated.
- Temporary casing, if needed, is included with the cost of the "Drilled Shafts in Soil".

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SOIL AND MATERIAL CONSULTANTS, INC. File No. 23551 **BORING LOG 1**

Client: Ciorba Group Sheet 1 of 3

Project: Broadway Ave. over Silver Creek Bridge Replacement Date 1/19/18

Location: Melrose Park, IL Drilled By: AC

Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	0	S	T	R	B	N	Pen.	W	Uw	Qu
629.1'	Dark brown silt, some clay, trace sand & roots, damp (topsoil) - Fill	1	J							25.6		
628.1'	Brown-dark brown clay & silt, trace sand & gravel, damp, very stiff - Fill	2	SS	12"				7	2.75	21.7	99.3	3.5
626.1'	Brown clay, some silt, trace sand & gravel, damp, hard	5	3	SS	18"			11	4.5+	18.6	108.9	5.7
620.6'	Gray clay, some silt, trace sand & gravel, damp, hard	10	5	SS	18"			16	3.5	16.0	117.5	4.2
618.6'	Gray silt, some sand, trace gravel, damp, medium dense	6								12.3		
617.6'	Gray clay & silt, trace fine sand, damp, hard	7	SS	18"				22	4.5+	14.5	115.2	7.5
616.1'	Gray clay, some silt, trace sand & gravel, damp, very hard	15	8	SS	18"			16	4.5+	16.3	115.1	8.5
610.6'	Gray clay, some silt, trace sand & gravel, damp, hard	20	10	SS	18"			14	4.5+	16.8	114.7	7.9

Water Level — depth, ft. elev., ft.

- while drilling: dry

- after drilling: dry

- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.

B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %

N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"

Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.

Qu - unconfined compressive strength, tons/sq. ft.

F-111b-1

SOIL AND MATERIAL CONSULTANTS, INC. File No. 23551 **BORING LOG 1**

Client: Ciorba Group Sheet 2 of 3

Project: Broadway Ave. over Silver Creek Bridge Replacement Date 1/19/18

Location: Melrose Park, IL Drilled By: AC

Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	20	S	T	R	B	N	Pen.	W	Uw	Qu
607.1'	Gray clay, some silt, trace sand & gravel, damp, very hard	11							4.5+	14.5	117.2	8.2
605.6'	Gray silt, some clay, trace sand & gravel, damp, medium dense	12	SS	24				24		10.0		
603.6'	Gray silt, trace fine sand & gravel, damp, medium dense	25	13	SS	18"			14	28	15.6		
597.1'	Gray clay & silt, trace sand & gravel, damp, very hard	35	16	SS	18"			21	38	4.5+	121.2	10.0+
592.1'	Gray silt, trace fine sand, damp, very dense	40	17	SS	18"			40	76	14.5		

Water Level — depth, ft. elev., ft.

- while drilling: dry

- after drilling: dry

- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.

B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %

N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"

Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.

Qu - unconfined compressive strength, tons/sq. ft.

F-111b-2

SOIL AND MATERIAL CONSULTANTS, INC. File No. 23551 **BORING LOG 1**

Client: Ciorba Group Sheet 3 of 3

Project: Broadway Ave. over Silver Creek Bridge Replacement Date 1/19/18

Location: Melrose Park, IL Drilled By: AC

Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	40	S	T	R	B	N	Pen.	W	Uw	Qu
578.1'	Gray silt, trace fine sand, damp, very dense	45	18	SS	18"			34	60	8.7		
578.1'	Refusal	50	19	SS	18"			59	93	8.5		
578.1'	End of Boring	55										
578.1'	End of Boring	60										

Water Level — depth, ft. elev., ft.

- while drilling: dry

- after drilling: dry

- hrs. after drilling: _____

S - sample T - type: J(Jar), SS(split-spoon), ST(shelby tube) R - recovery length, in.

B - Standard Penetration Test(SPT), blows/ 6" interval W - water content, %

N - SPT, blows/foot to drive 2" O.D. split-spoon sampler with 140 lb. hammer falling 30"

Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs/cu. ft.

Qu - unconfined compressive strength, tons/sq. ft.

F-111b-3

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
STRUCTURE NO. 016-7483

SHEET 5-26 OF 5-28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	62
CONTRACT NO.			61148	
ILLINOIS FED. AID PROJECT				

LEGEND:

	EXISTING TWIN MAST ARM LIGHT POLE TO REMAIN
	EXISTING TWIN MAST ARM LIGHT POLE TO BE REMOVED. (PAID FOR AS REMOVAL OF LIGHTING UNIT, SALVAGE). RELOCATE EXISTING LUMINAIRE (2). REMOVAL OF POLE FOUNDATION.
	INSTALL LIGHT POLE, SPECIAL. REINSTALL EXISTING LUMINAIRES (PAID FOR AS RELOCATE EXISTING LUMINAIRE).
	EXISTING LIGHT POLE TO BE REMOVED. (PAID FOR AS REMOVAL OF LIGHTING UNIT, SALVAGE). REMOVAL OF POLE FOUNDATION
	EXISTING LIGHT POLE TO REMAIN (MELROSE PARK)
	EXISTING LIGHT POLE TO BE REMOVED. (PAID FOR AS REMOVAL OF LIGHTING UNIT, SALVAGE). REMOVAL OF POLE FOUNDATION. (MELROSE PARK)
	PROPOSED COMBINATION LIGHT POLE (SEE TRAFFIC SIGNAL PLANS)
	PROPOSED HANDHOLE
	PROPOSED HANDHOLE, COMPOSITE CONCRETE
	JUNCTION BOX, STAINLESS STEEL, EMBEDDED OR ATTACHED TO STRUCTURE, SIZED AS NOTED.
	TEMPORARY WOOD POLE, 50 FT., CLASS 4
	PROPOSED GATEWAY MONUMENT SIGN COMPLETE. SEE LIGHTING DETAILS.
	EXISTING AERIAL CABLE
	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE
	EXISTING CONDUIT
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/4" DIA.
	CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA. PVC COATED GALVANIZED STEEL

SUMMARY OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	114
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	12
CONDUIT ATTACHED TO STRUCTURE, 1 1/4" DIA., PVC COATED GALVANIZED STEEL	FOOT	110
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4
HANDHOLE	EACH	2
HANDHOLE, COMPOSITE CONCRETE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,784
AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	490
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	4
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	12
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	3
REMOVAL OF POLE FOUNDATION	EACH	3
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,414
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	5
LUMINAIRE, LED, SPECIAL	EACH	4
REMOVAL OF LIGHTING LUMINAIRE, SALVAGE	EACH	2
AERIAL CABLE REMOVAL	FOOT	536
GATEWAY MONUMENT SIGN COMPLETE	EACH	4
INTERCEPT EXISTING CONDUIT	EACH	3
LIGHT POLE, SPECIAL	EACH	1
RELOCATE EXISTING LUMINAIRE	EACH	2

NOTES:

- REMOVAL OF THE EXISTING LIGHTING SYSTEM SHALL NOT BEGIN BEFORE THE TEMPORARY OR PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE CONCRETE FOUNDATIONS HAVE CURED.

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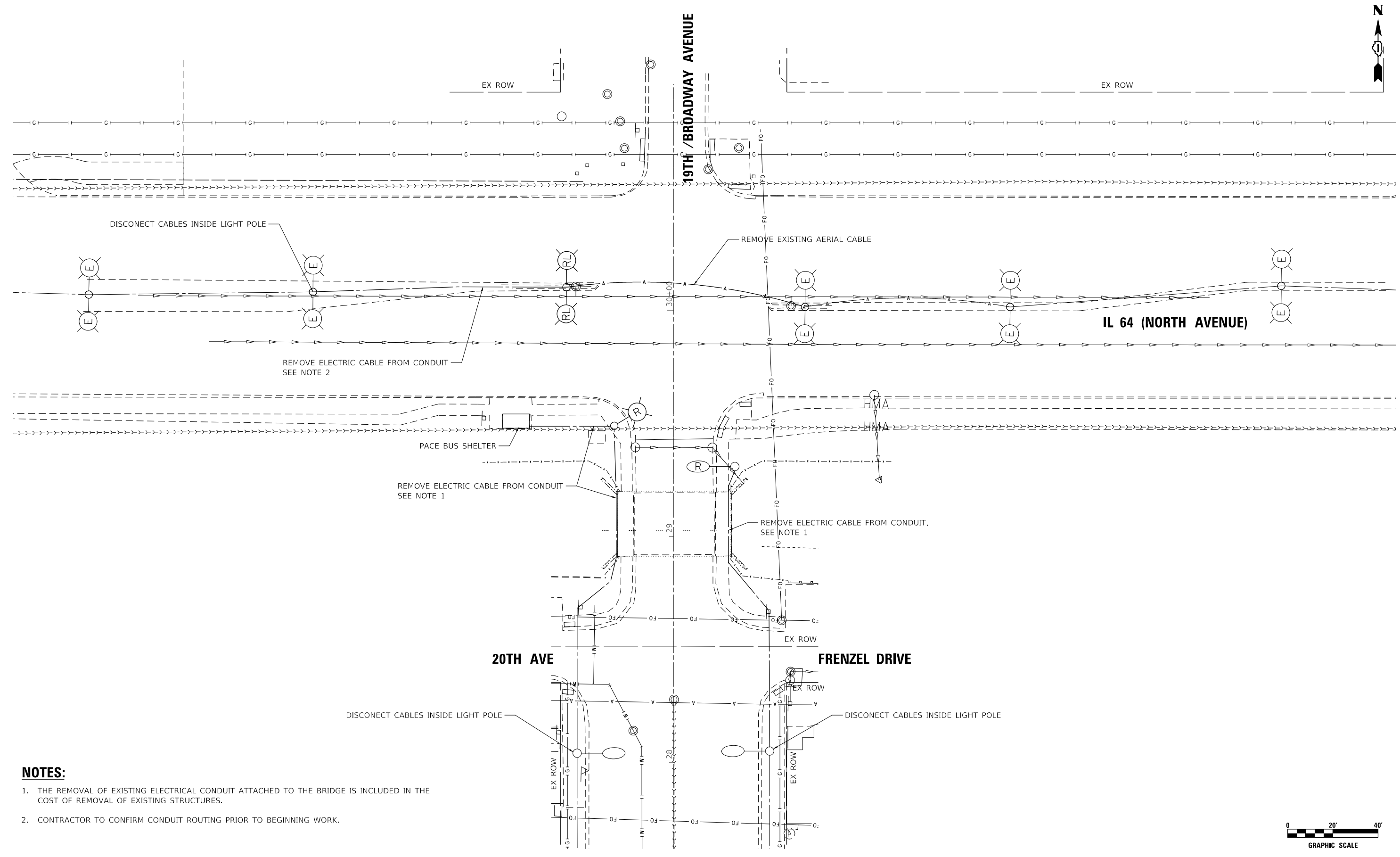
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
LIGHTING GENERAL NOTES, LEGEND AND SOQ**

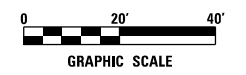
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F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 65
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



NOTES:

1. THE REMOVAL OF EXISTING ELECTRICAL CONDUIT ATTACHED TO THE BRIDGE IS INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.
2. CONTRACTOR TO CONFIRM CONDUIT ROUTING PRIOR TO BEGINNING WORK.



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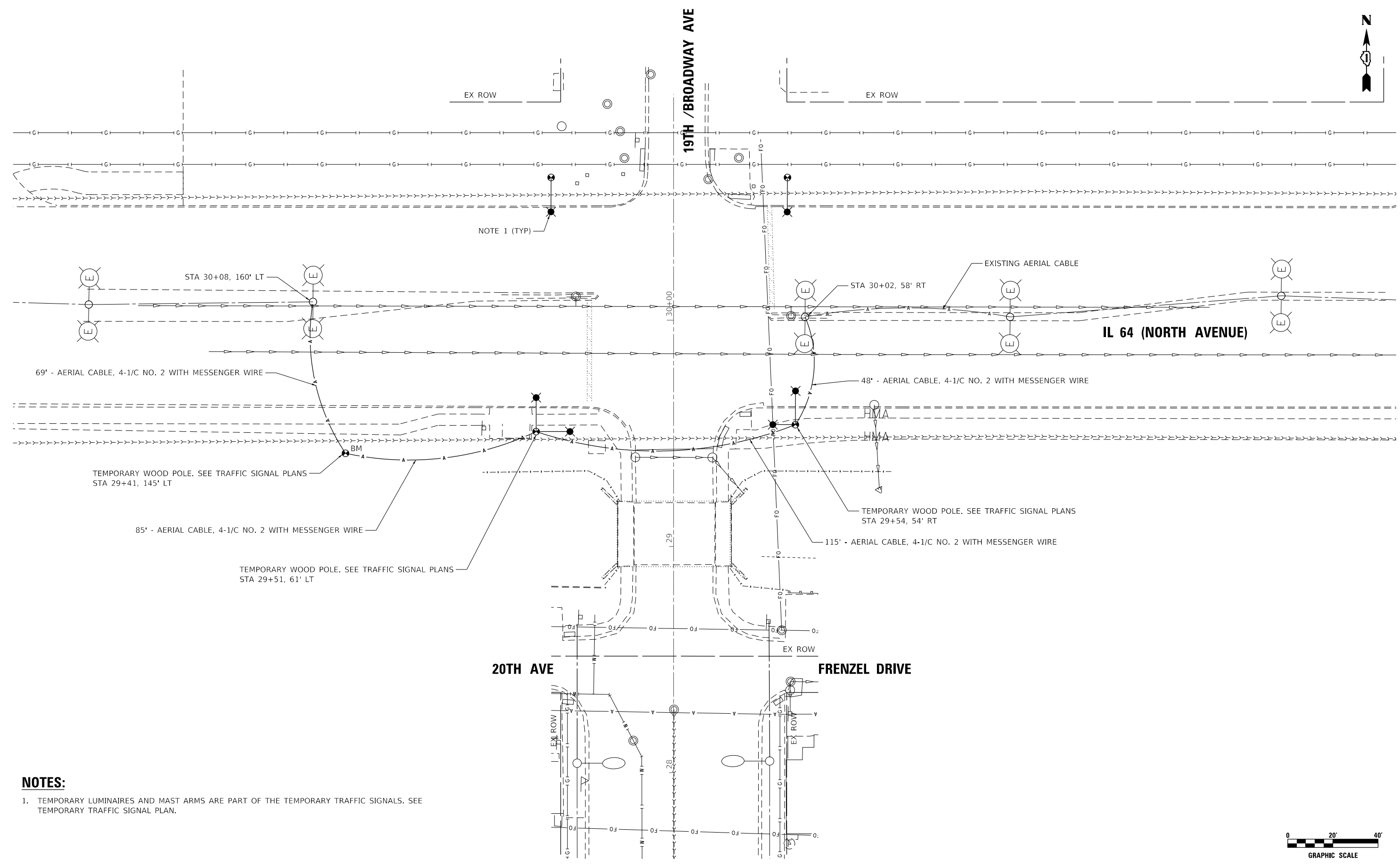
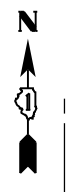
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
LIGHTING REMOVAL PLAN

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	66
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



NOTE 1 (TYP)

STA 30+08, 160' LT

STA 30+02, 58' RT

IL 64 (NORTH AVENUE)

69' - AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE

48' - AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE

TEMPORARY WOOD POLE. SEE TRAFFIC SIGNAL PLANS
STA 29+41, 145' LT

TEMPORARY WOOD POLE. SEE TRAFFIC SIGNAL PLANS
STA 29+54, 54' RT

85' - AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE

115' - AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE

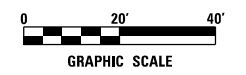
TEMPORARY WOOD POLE. SEE TRAFFIC SIGNAL PLANS
STA 29+51, 61' LT

20TH AVE

FRENZEL DRIVE

NOTES:

- TEMPORARY LUMINAIRES AND MAST ARMS ARE PART OF THE TEMPORARY TRAFFIC SIGNALS. SEE TEMPORARY TRAFFIC SIGNAL PLAN.



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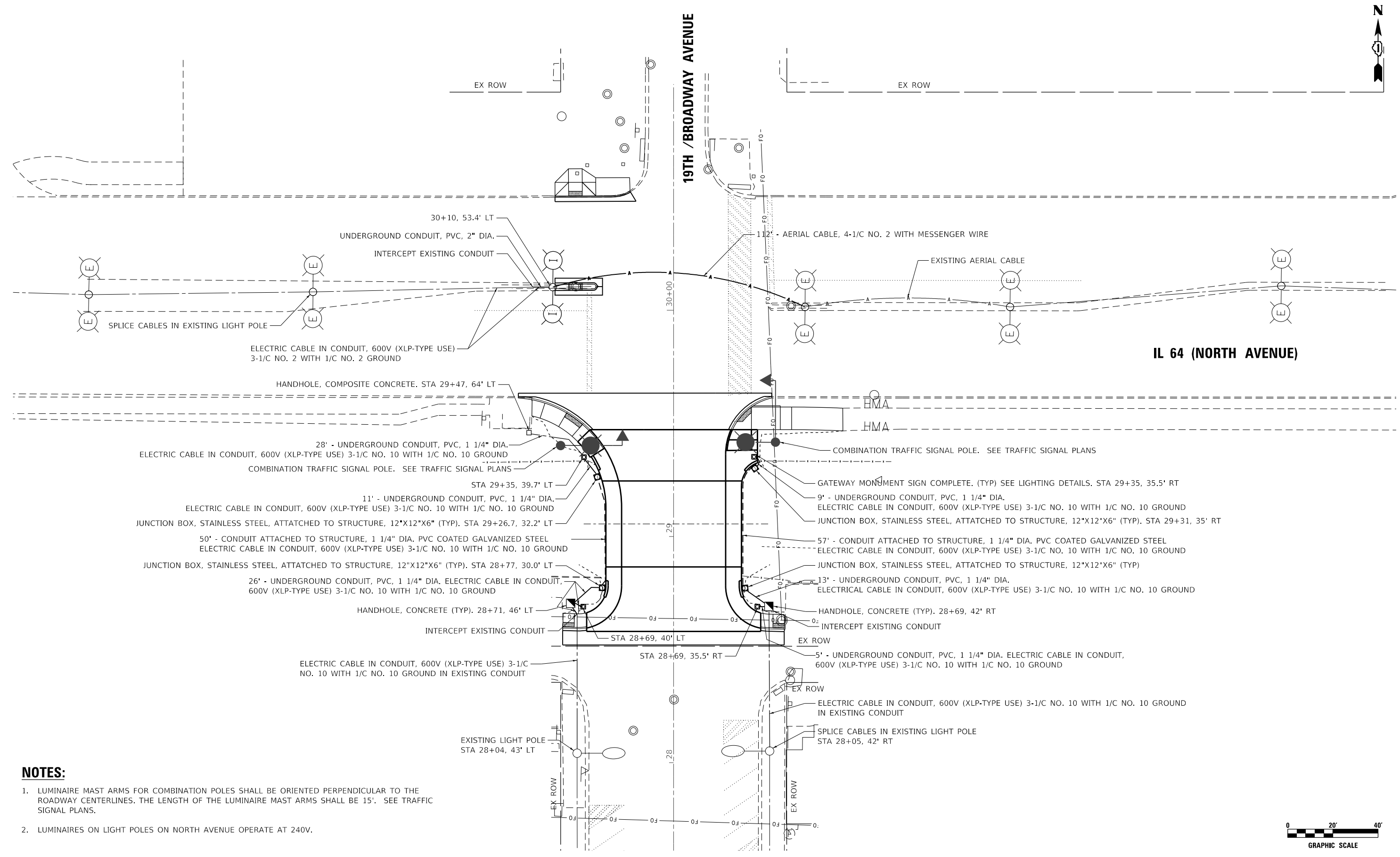
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
TEMPORARY LIGHTING PLAN**

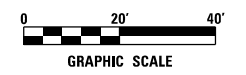
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F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 67
CONTRACT NO. 61J48				ILLINOIS FED. AID PROJECT



NOTES:

- LUMINAIRE MAST ARMS FOR COMBINATION POLES SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINES. THE LENGTH OF THE LUMINAIRE MAST ARMS SHALL BE 15'. SEE TRAFFIC SIGNAL PLANS.
- LUMINAIRES ON LIGHT POLES ON NORTH AVENUE OPERATE AT 240V.



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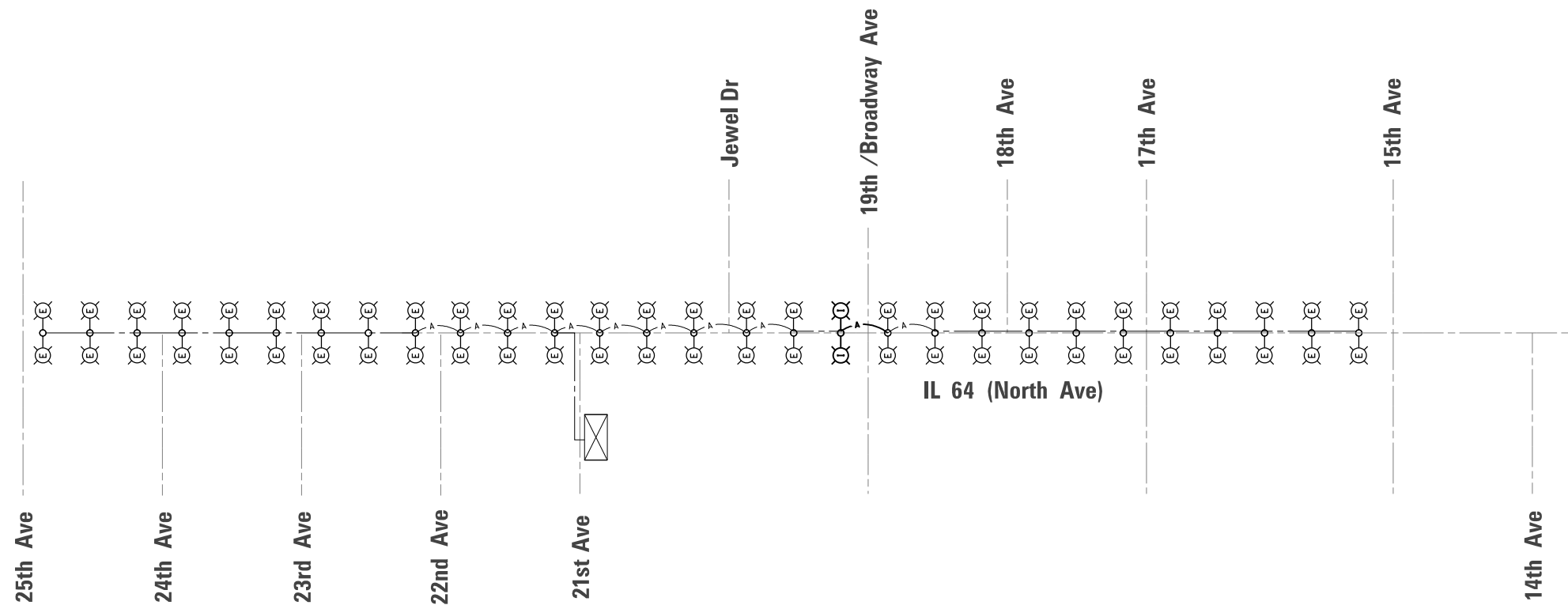
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
PROPOSED LIGHTING PLAN

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

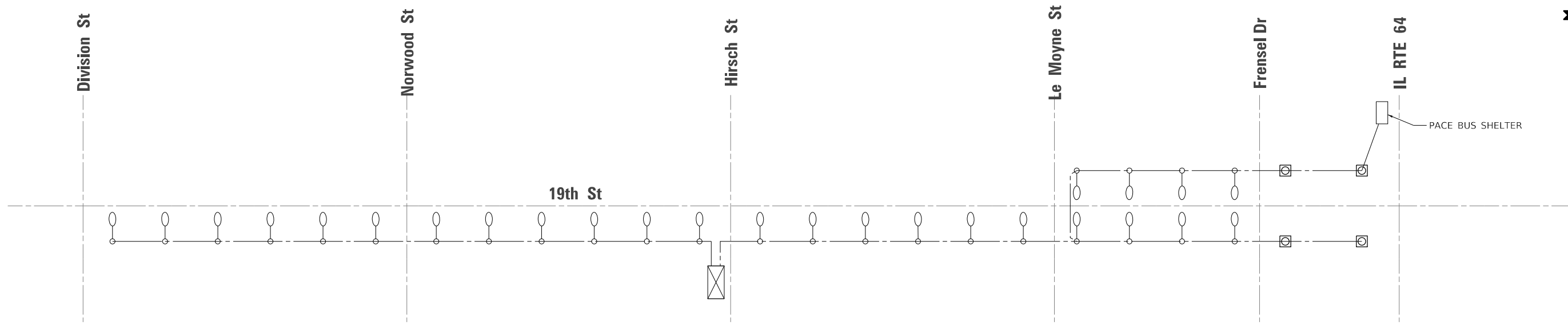
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CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



NORTH AVENUE SINGLE LINE DIAGRAM

LEGEND:

- EXISTING LIGHTING CONTROLLER, 240/480V
- EXISTING STREET LIGHT TO REMAIN
- LIGHT POLE, SPECIAL (ALUMINUM, 30' M.H., 8' AND 15' MAST ARMS), WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H



19TH AVENUE SINGLE LINE DIAGRAM

LEGEND:

- EXISTING LIGHTING CONTROLLER, 220V
- EXISTING LIGHT POLE TO REMAIN (MELROSE PARK)
- PROPOSED GATEWAY MONUMENT SIGN COMPLETE, WITH LUMINAIRE, LED, SPECIAL

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

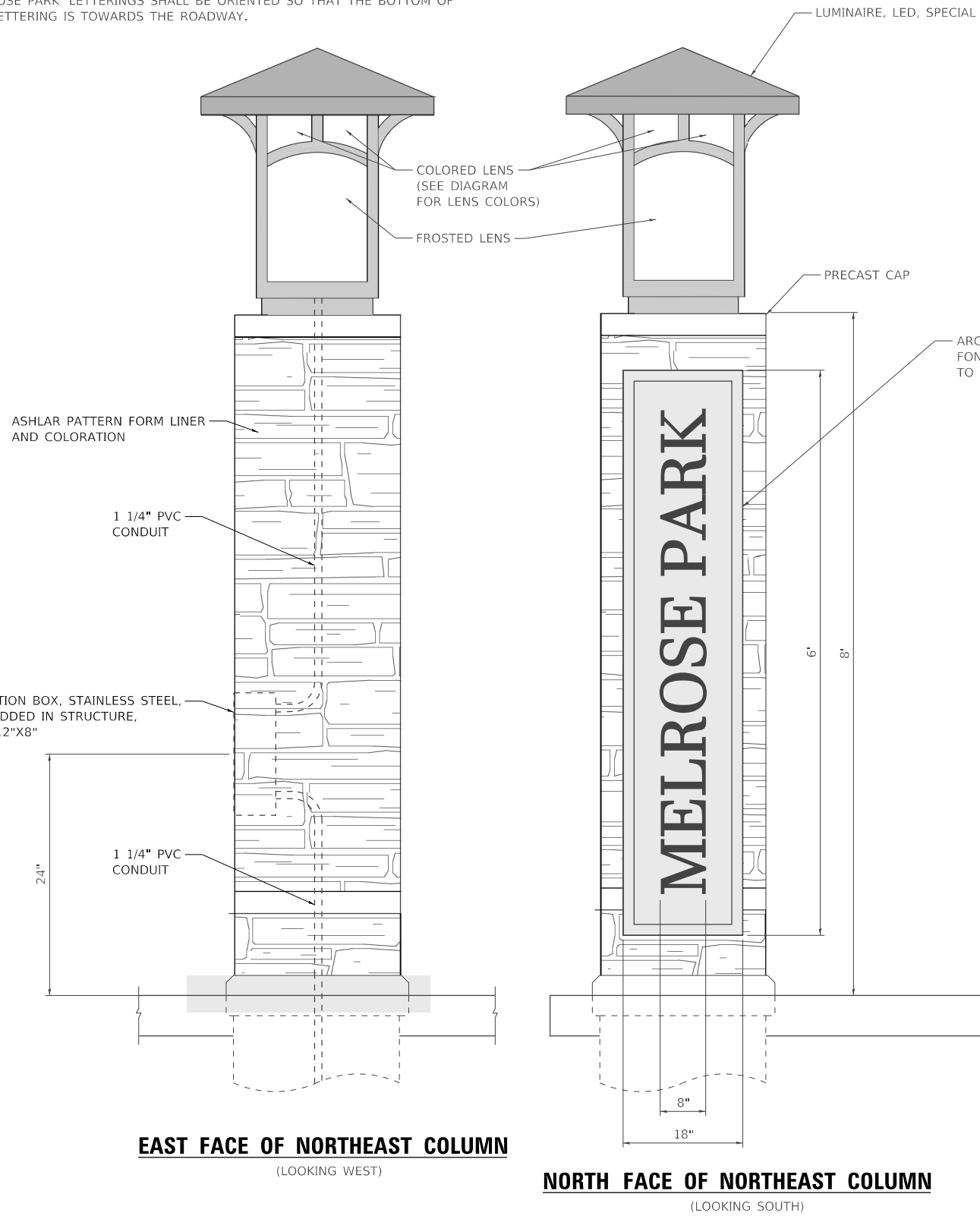
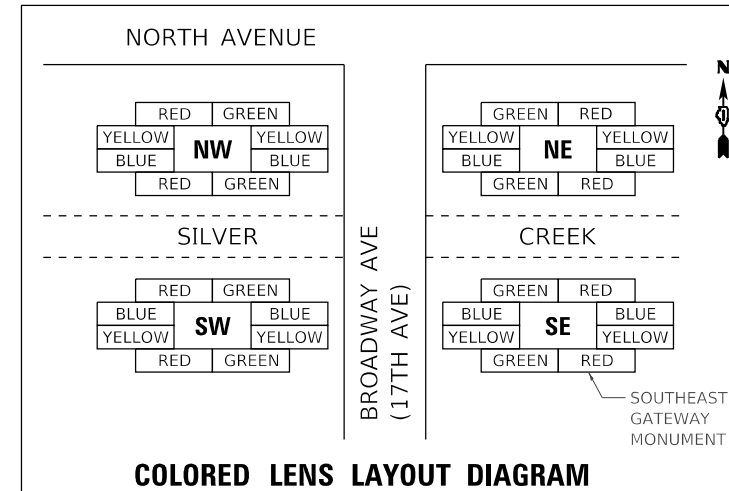
**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
SINGLE LINE DIAGRAM**

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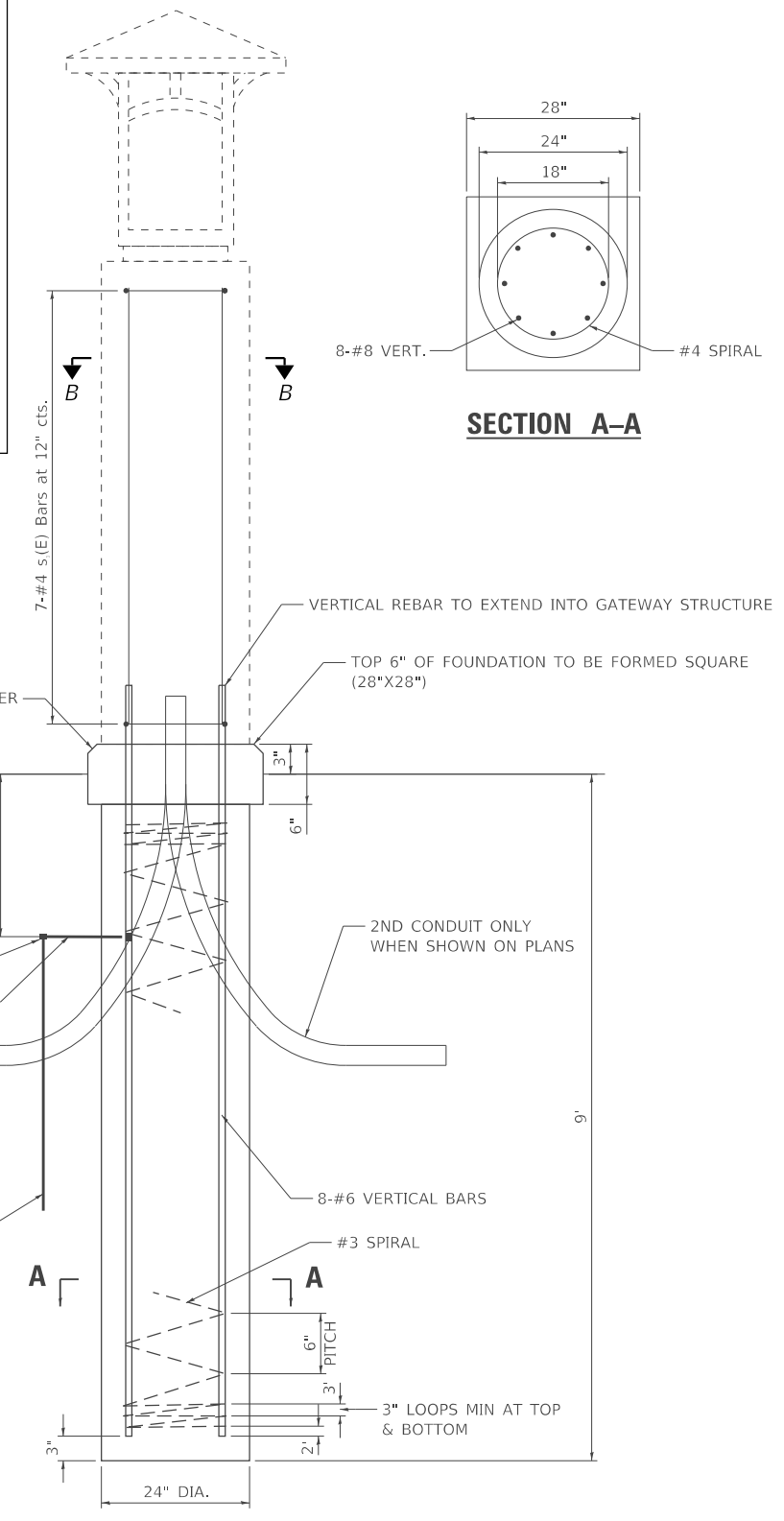
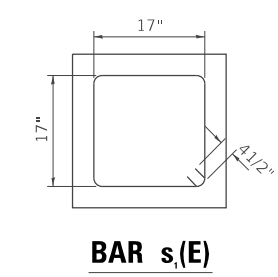
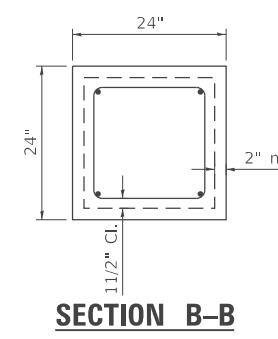
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2406	16-00131-00-BR	COOK	102	69
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

NOTES:

- 'MELROSE PARK' LETTERING SHALL BE INSTALLED ON THE NORTH FACE OF THE MONUMENTS NORTH OF THE BRIDGE AND ON THE SOUTH FACE OF THE MONUMENTS SOUTH OF THE BRIDGE.
- 'MELROSE PARK' LETTERINGS SHALL BE ORIENTED SO THAT THE BOTTOM OF THE LETTERING IS TOWARDS THE ROADWAY.



ARCHITECTURAL PRECAST CONCRETE PANEL BLACK LETTERING. FONT SHALL BE HELVETICA (CONFIRM WITH MELROSE PARK PRIOR TO FABRICATION).



GATEWAY MONUMENT SIGN COMPLETE

GATEWAY MONUMENT FOUNDATION DETAIL

NOT TO SCALE

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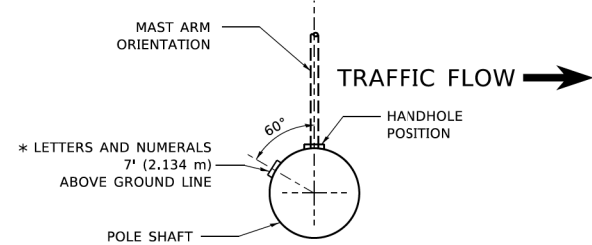


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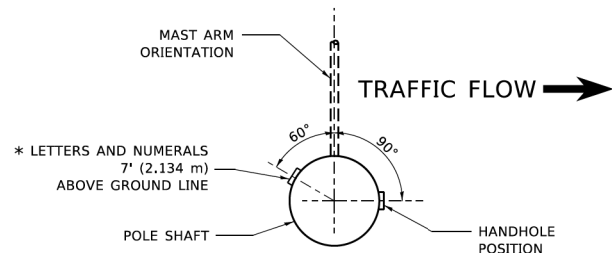
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT LIGHTING DETAILS			
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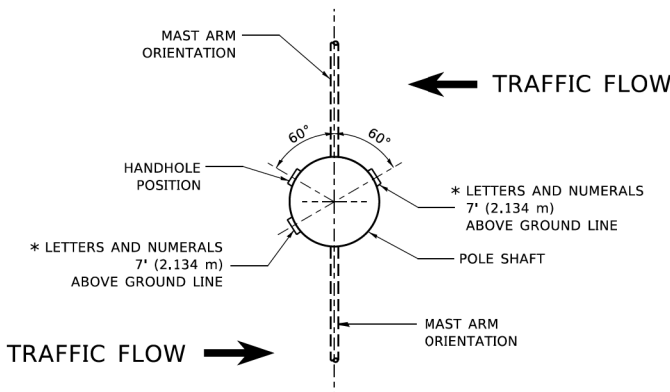
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CONTRACT NO. 61J48				ILLINOIS FED. AID PROJECT



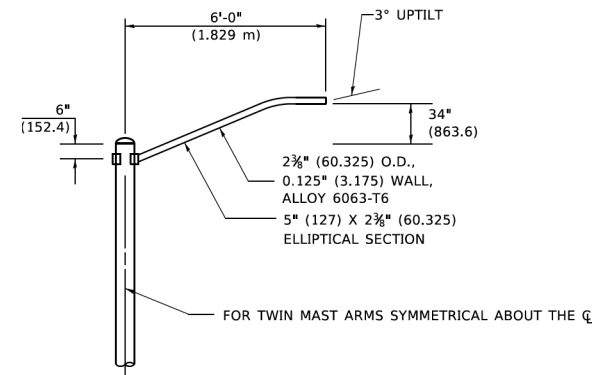
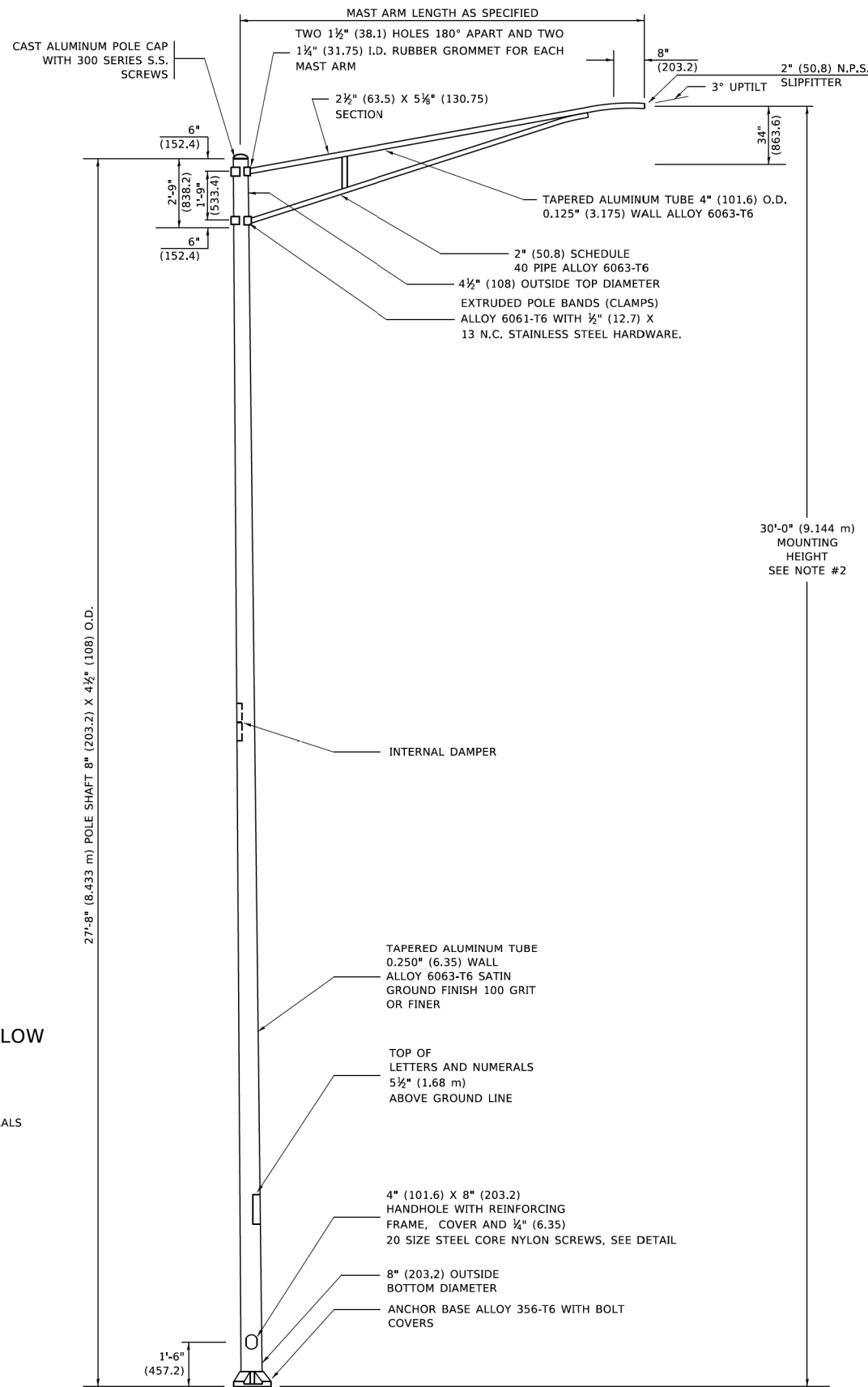
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



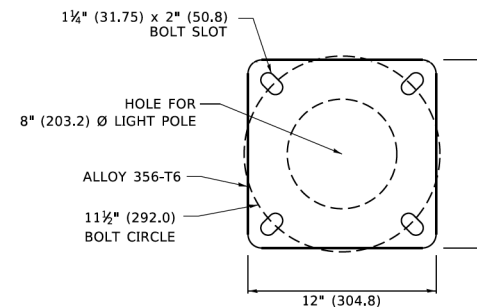
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

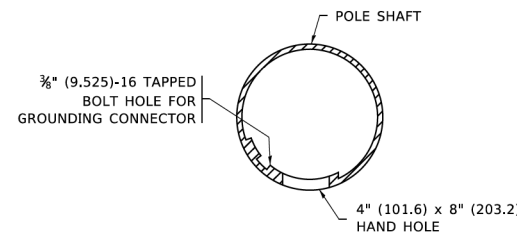


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)



LIGHT POLE BASE PLATE DETAIL

1 1/2" (292.0) BOLT CIRCLE



HANDHOLE DETAIL (N.T.S.)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) 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. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

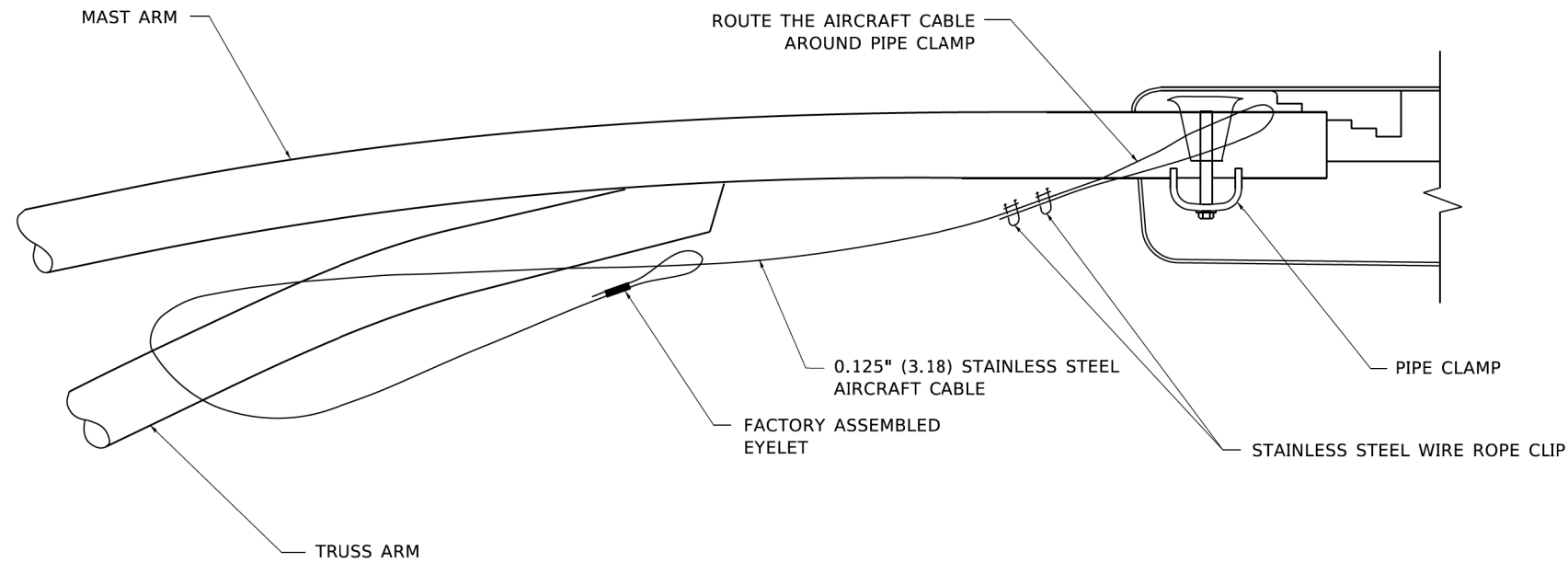
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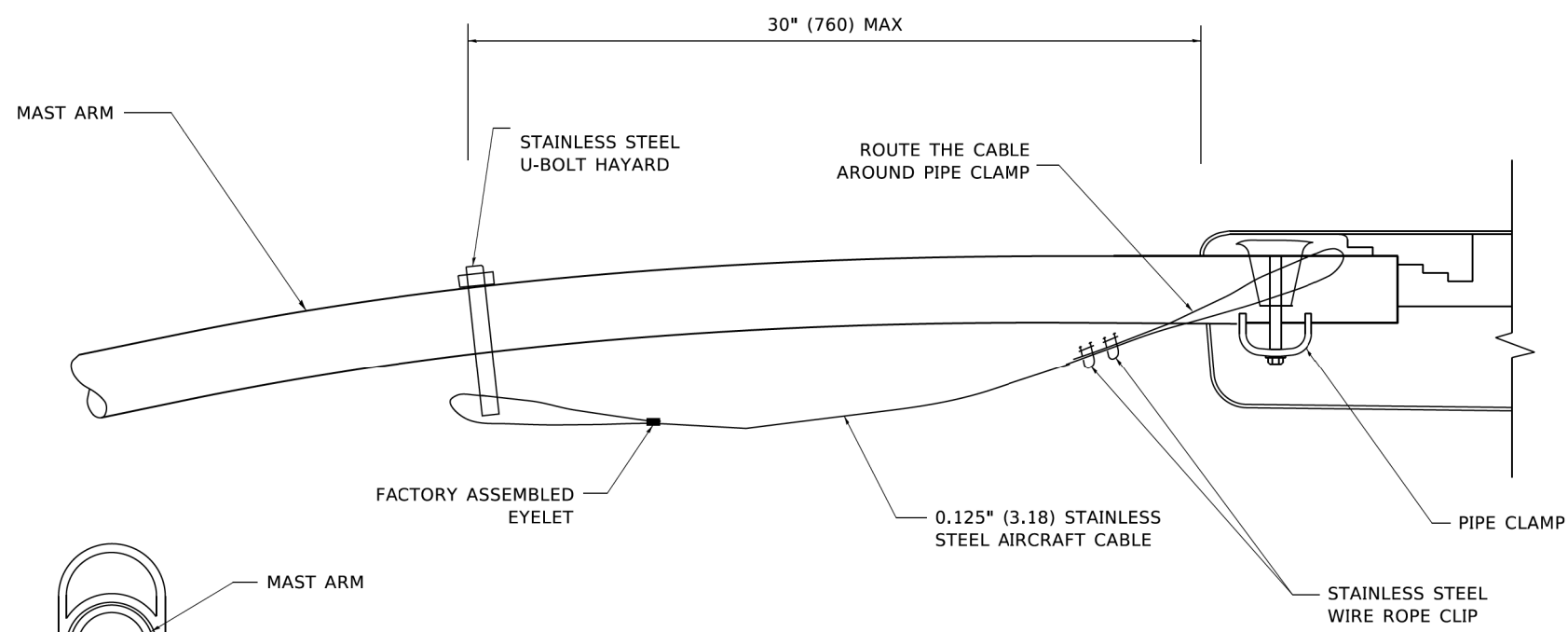
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALUMINUM LIGHT POLE			
30'-0" (9.144 m) MOUNTING HEIGHT			
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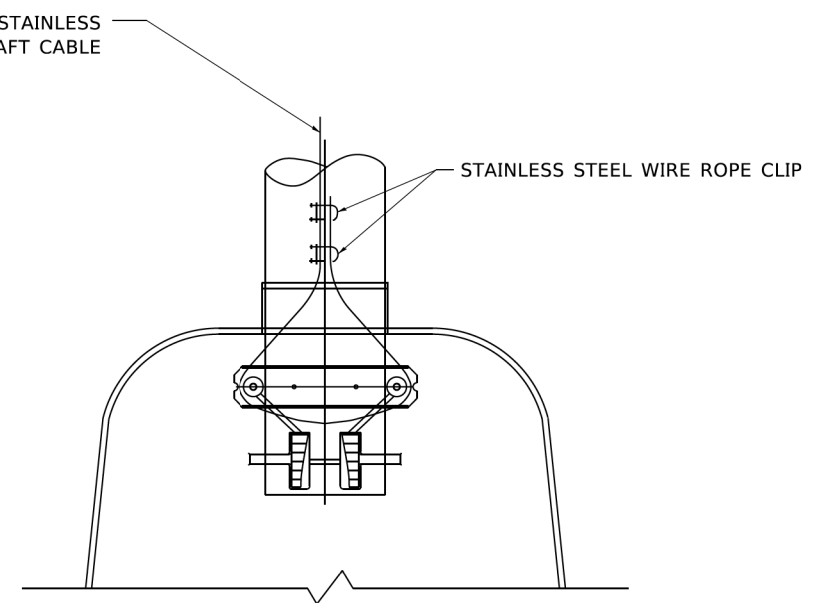
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BE-403		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



SIDE VIEW (TRUSS ARM)
N.T.S.



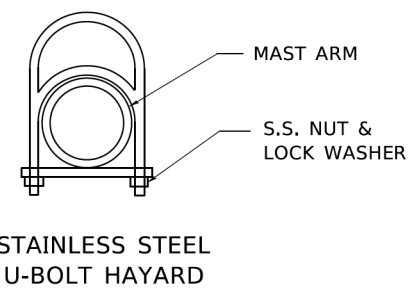
SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.



STAINLESS STEEL U-BOLT HAYARD

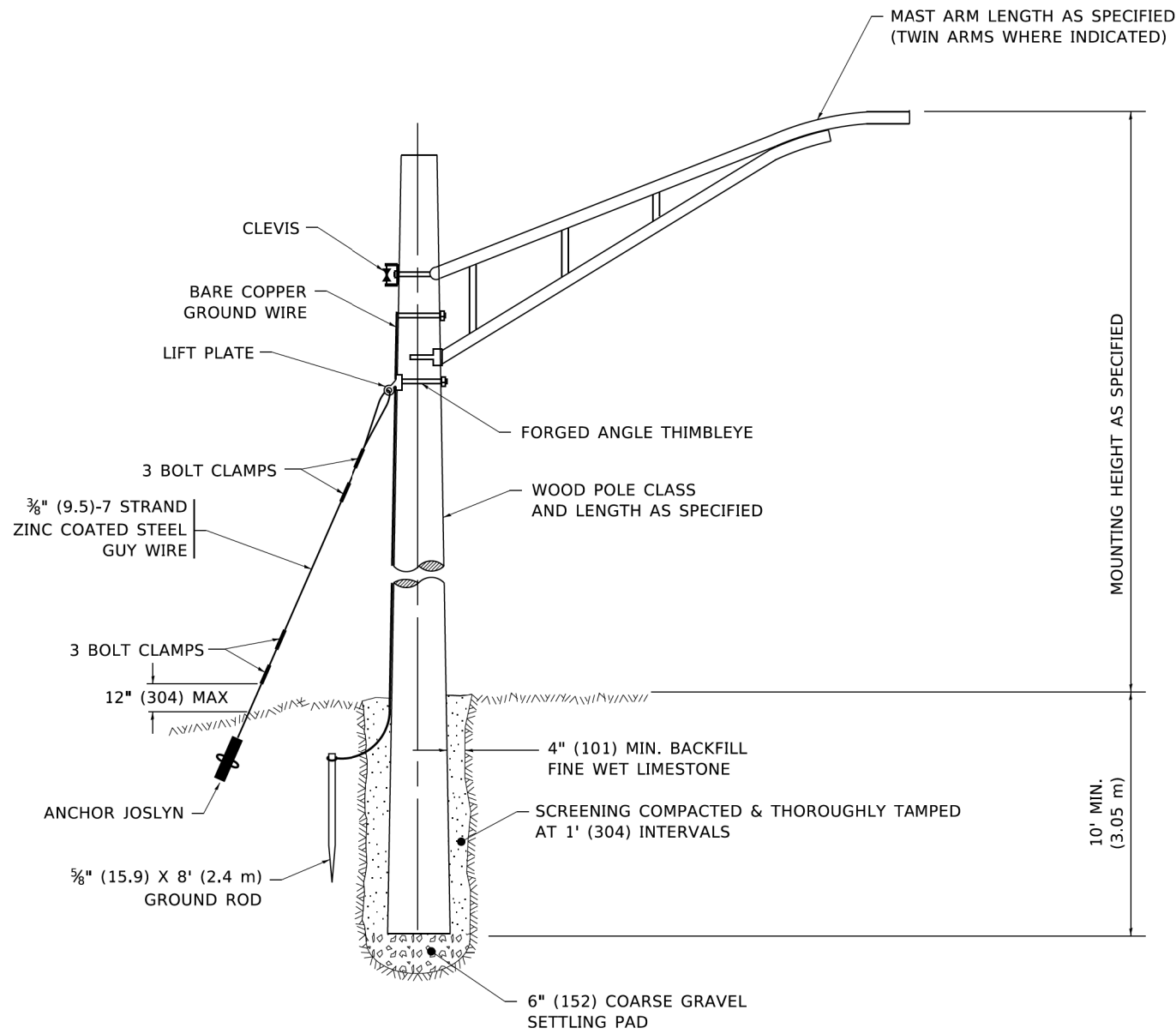
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PLOT DATE = 4/19/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

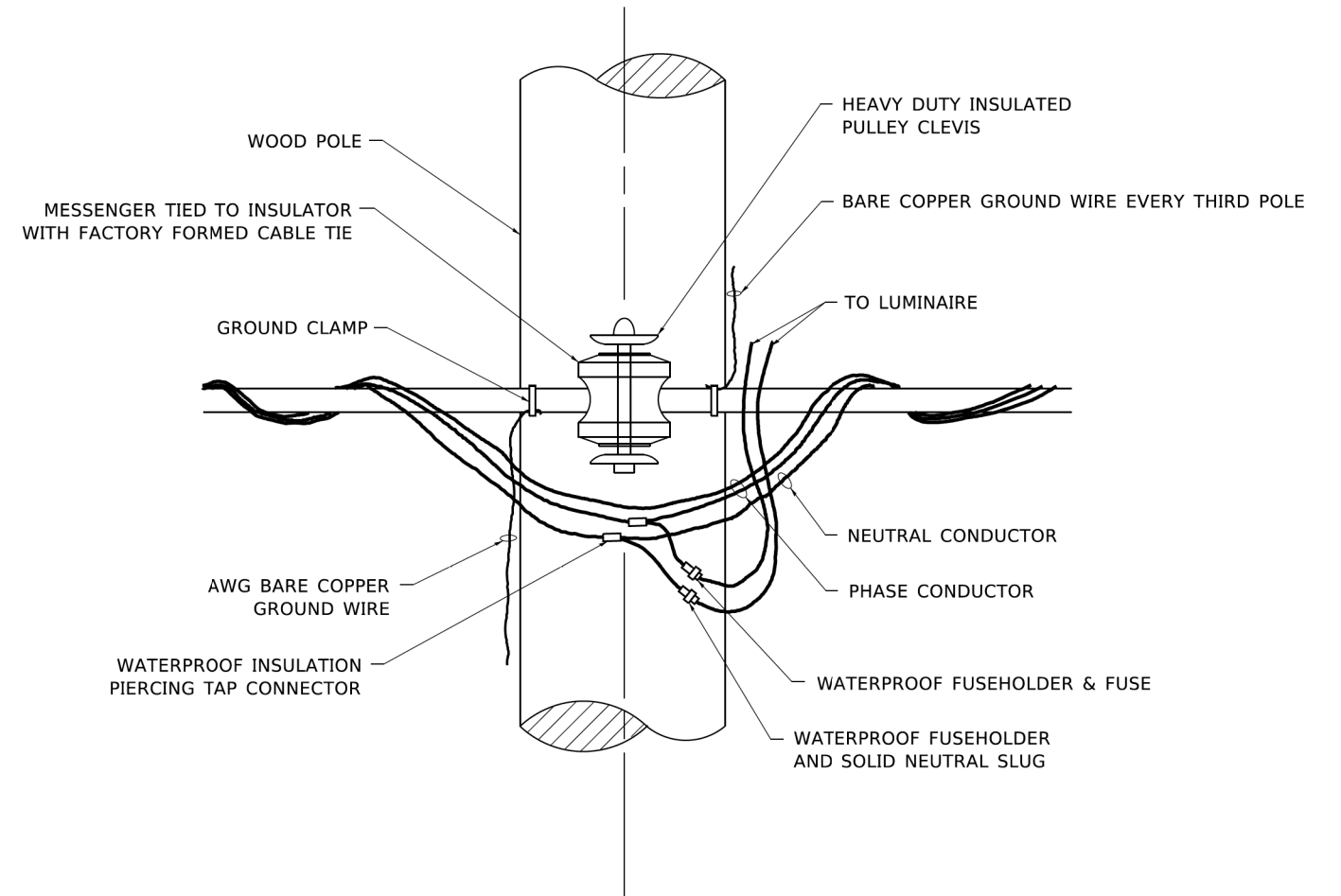
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BE-701		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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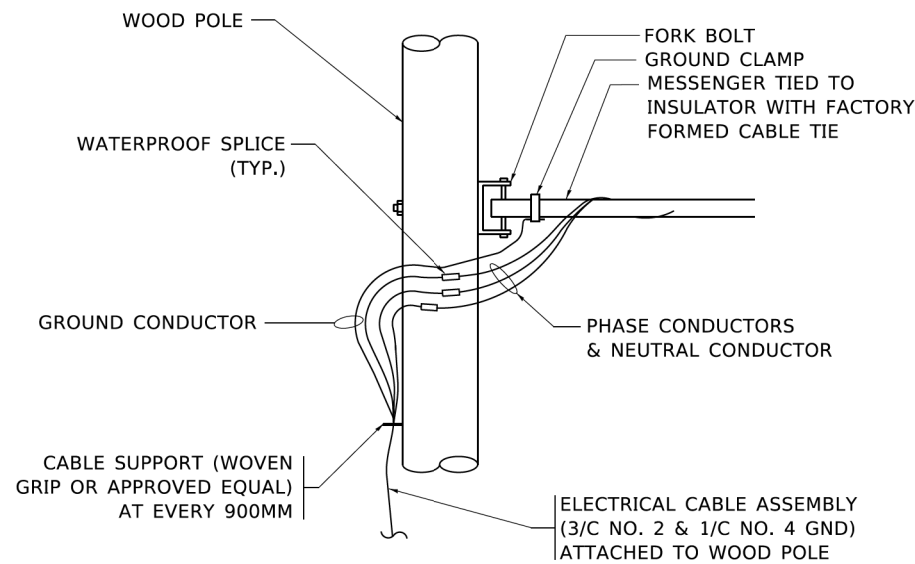
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PLOT DATE = 4/19/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

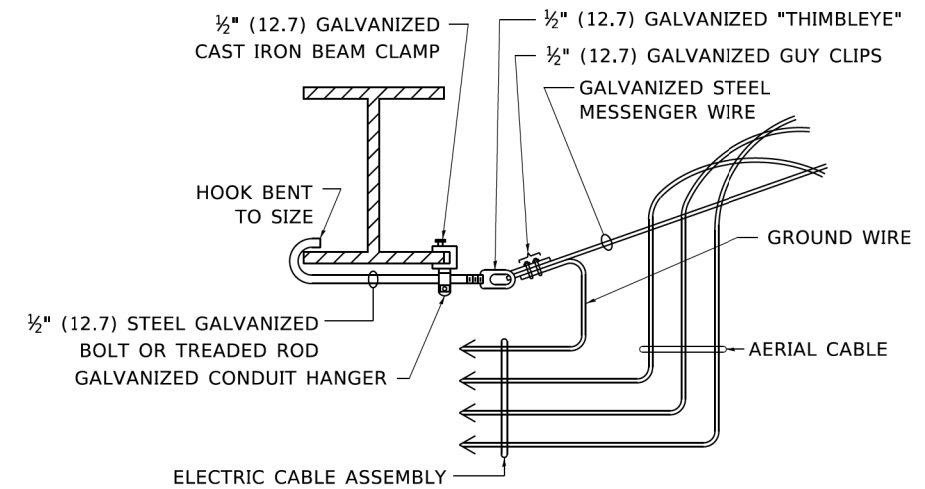
TEMPORARY LIGHT POLE DETAILS

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

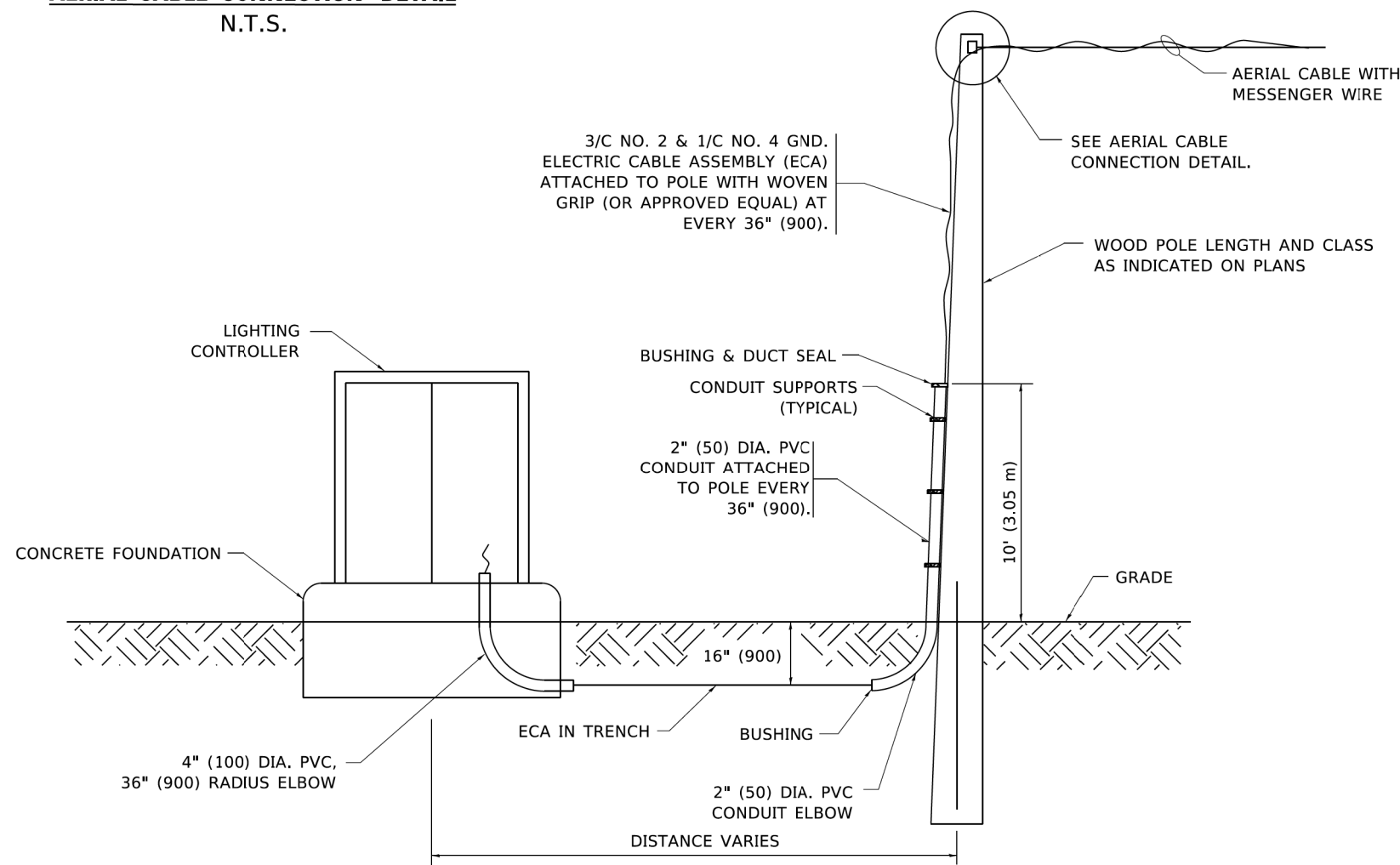
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BE-800		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

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	DRAWN -	REVISED -
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PLOT DATE = 4/19/2019	DATE -	REVISED -

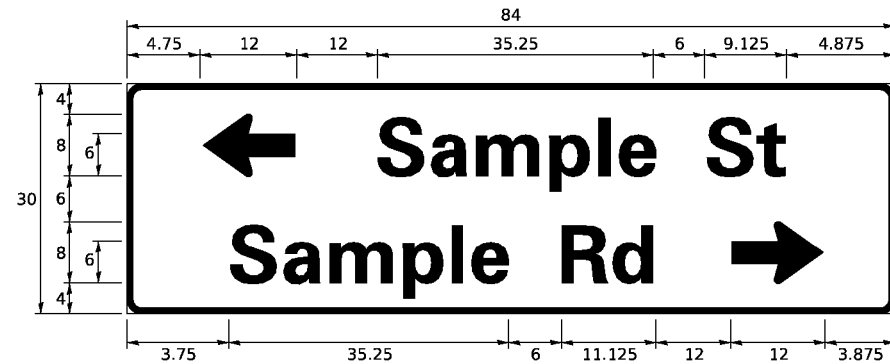
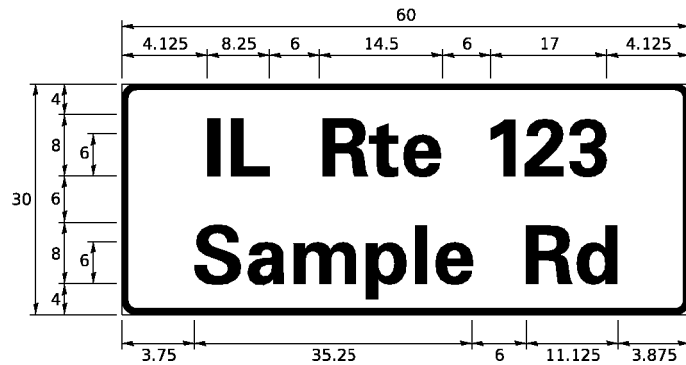
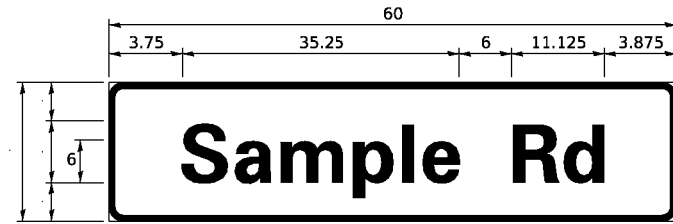
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY AERIAL CABLE INSTALLATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	77
BE-801		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



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

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

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

LOCAL SUPPLIERS:

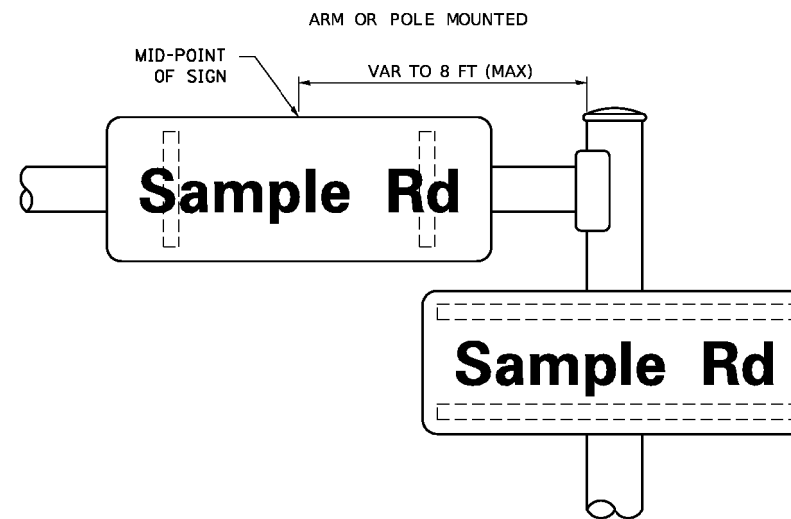
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

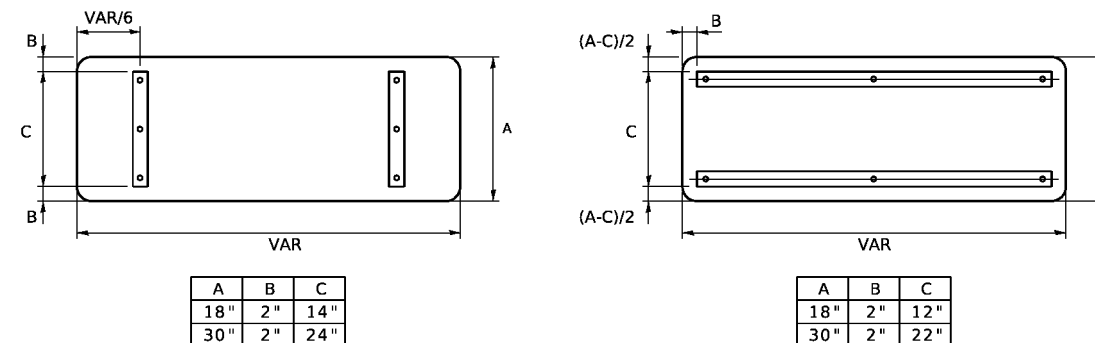
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- SELF TAPPING WITH NEOPRENE WASHER PART #HPN034 (UNIVERSAL)
- BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART
(8") UPPER CASE AND (6") LOWER CASE

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 78
TS-02		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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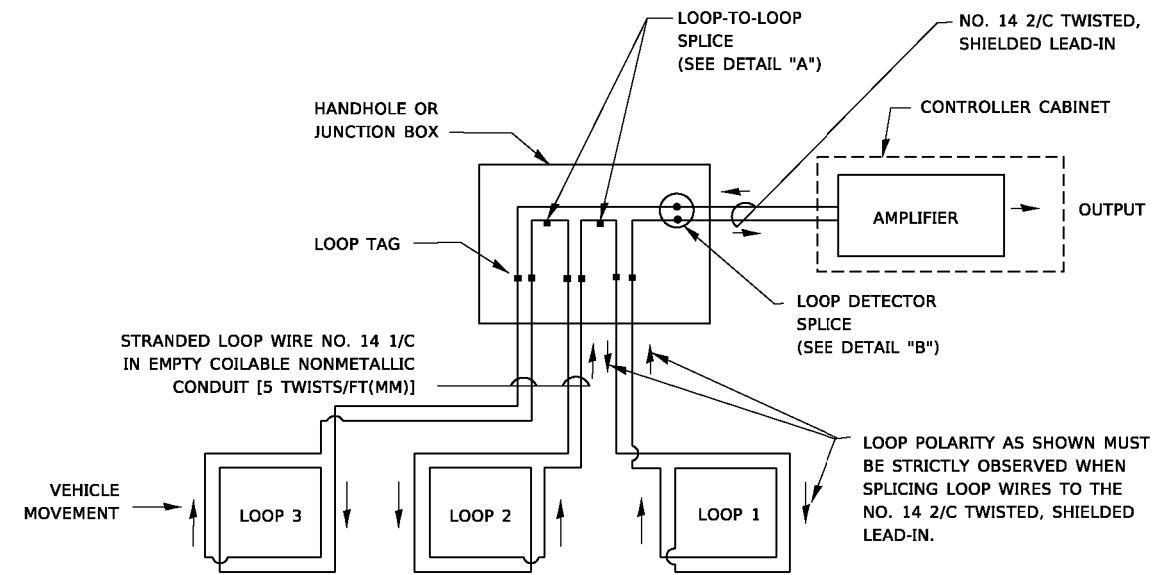
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 1	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	79
TS-05		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				

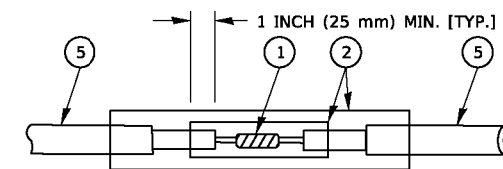
LOOP DETECTOR NOTES

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

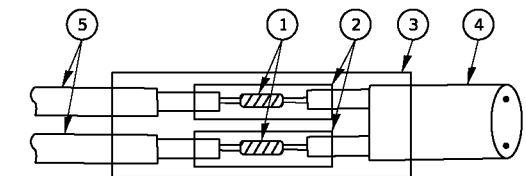


DETECTOR LOOP WIRING SCHEMATIC

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



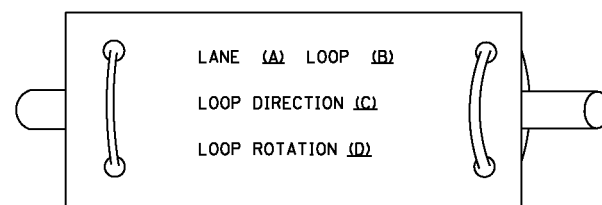
DETAIL "A"
LOOP-TO-LOOP SPLICE



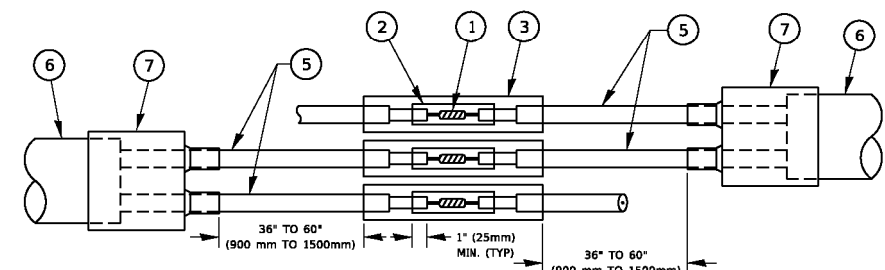
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

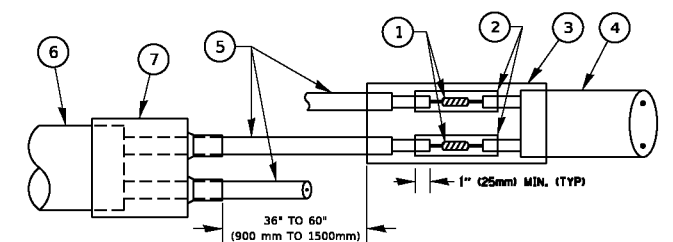
LOOP LEAD-IN CABLE TAG



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



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

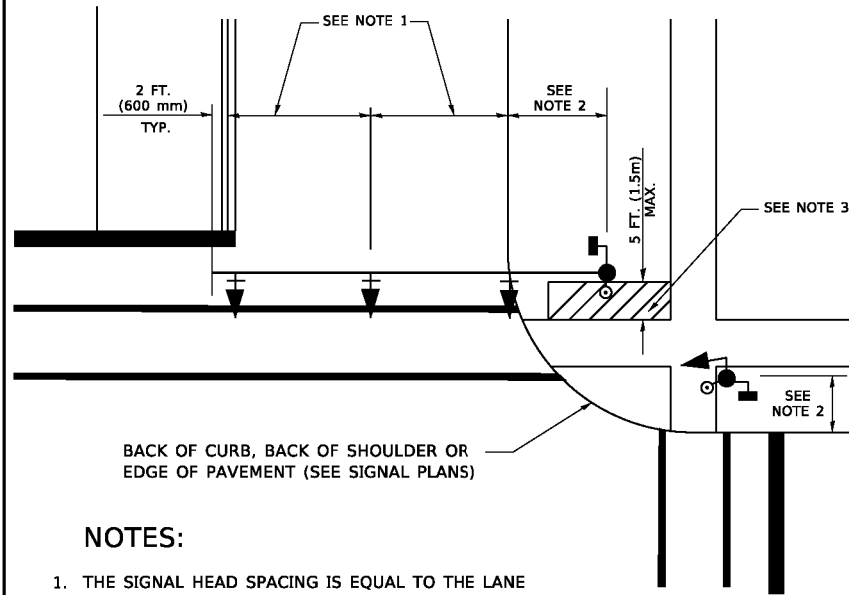
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	80
TS-05			CONTRACT NO. 61J48	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

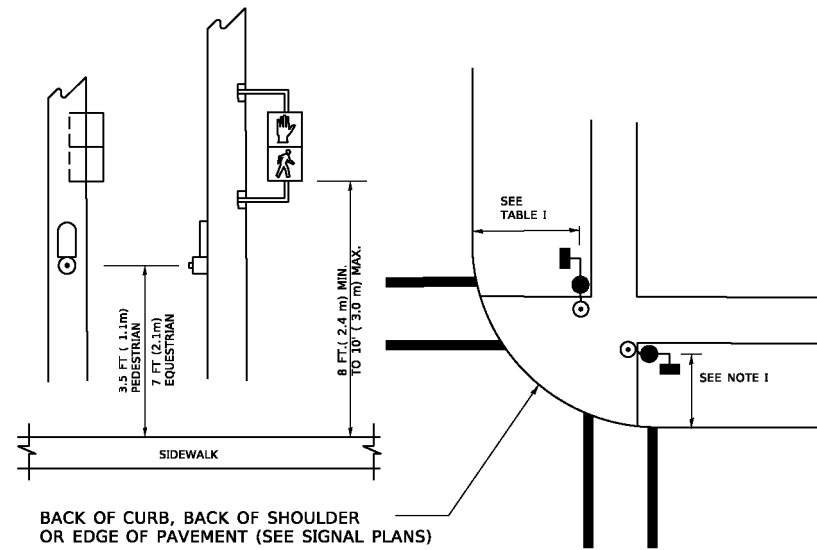
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

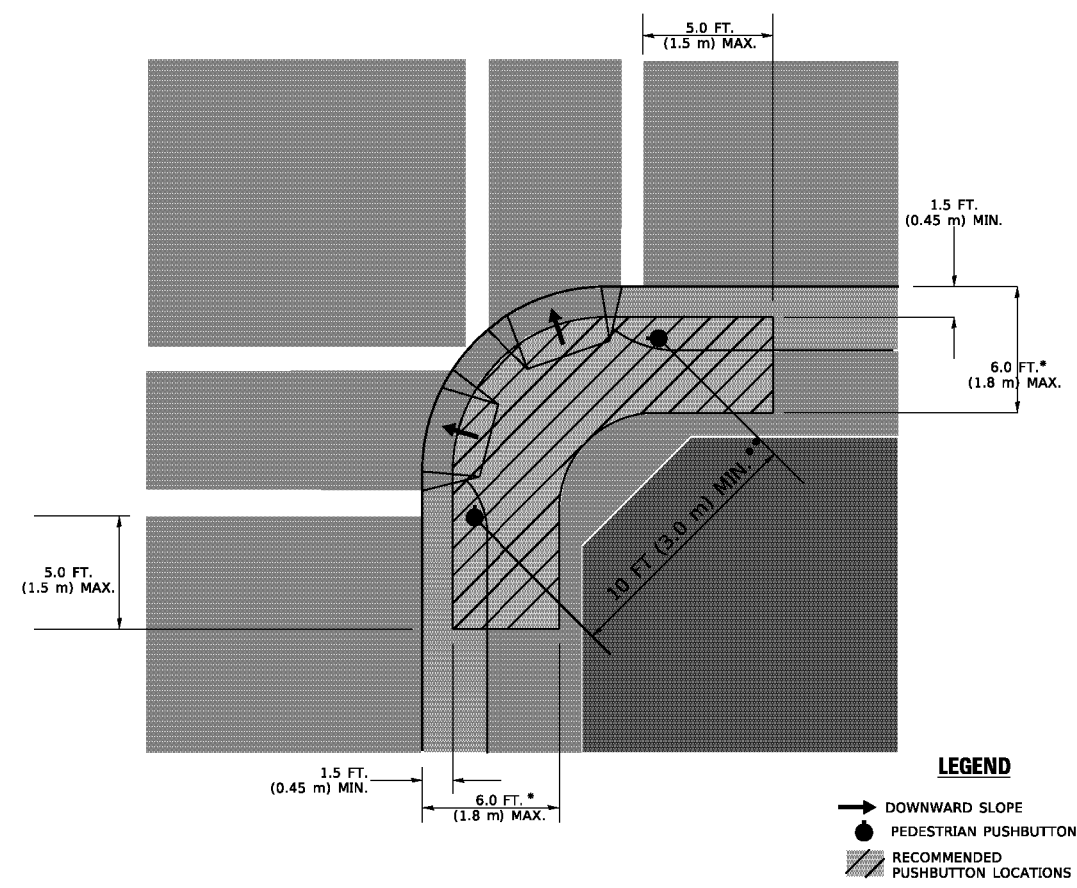
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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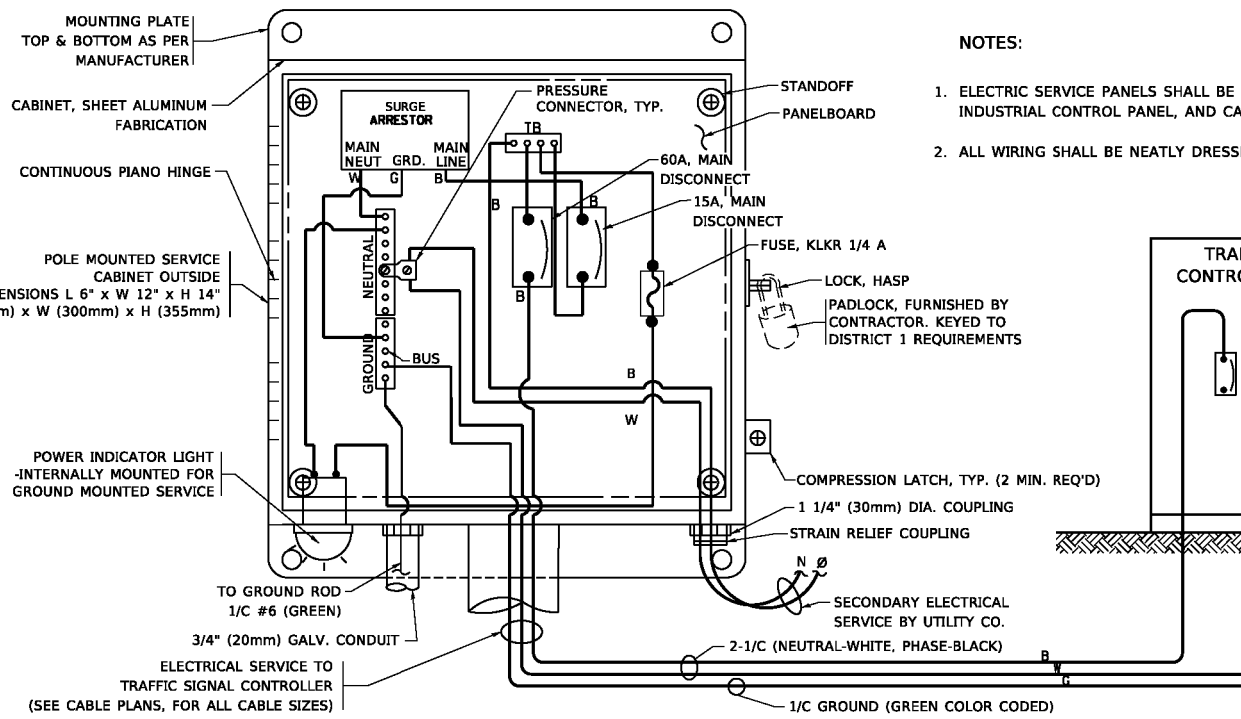
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

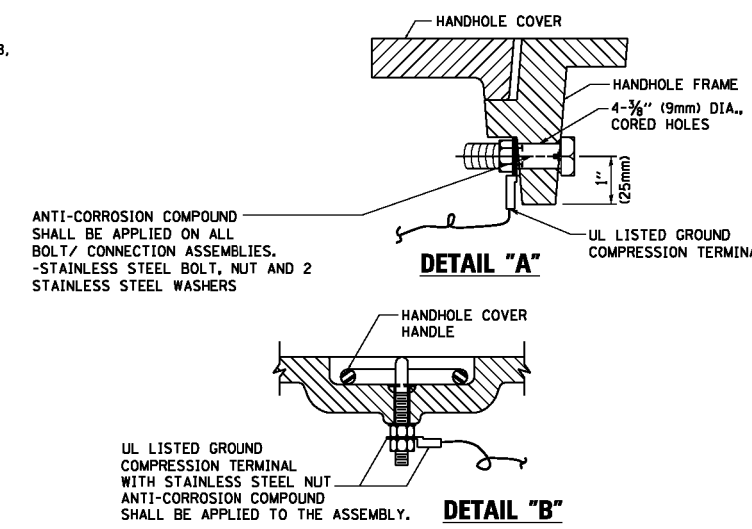
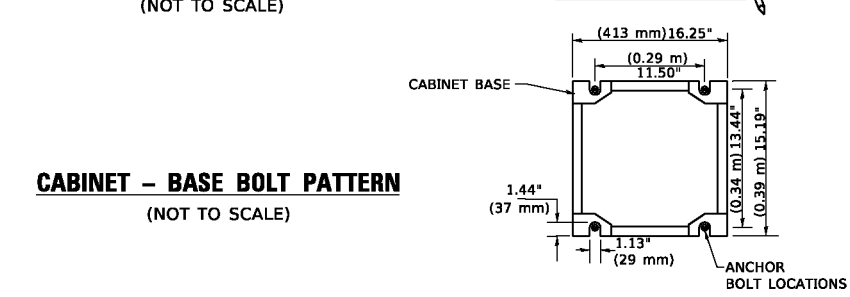
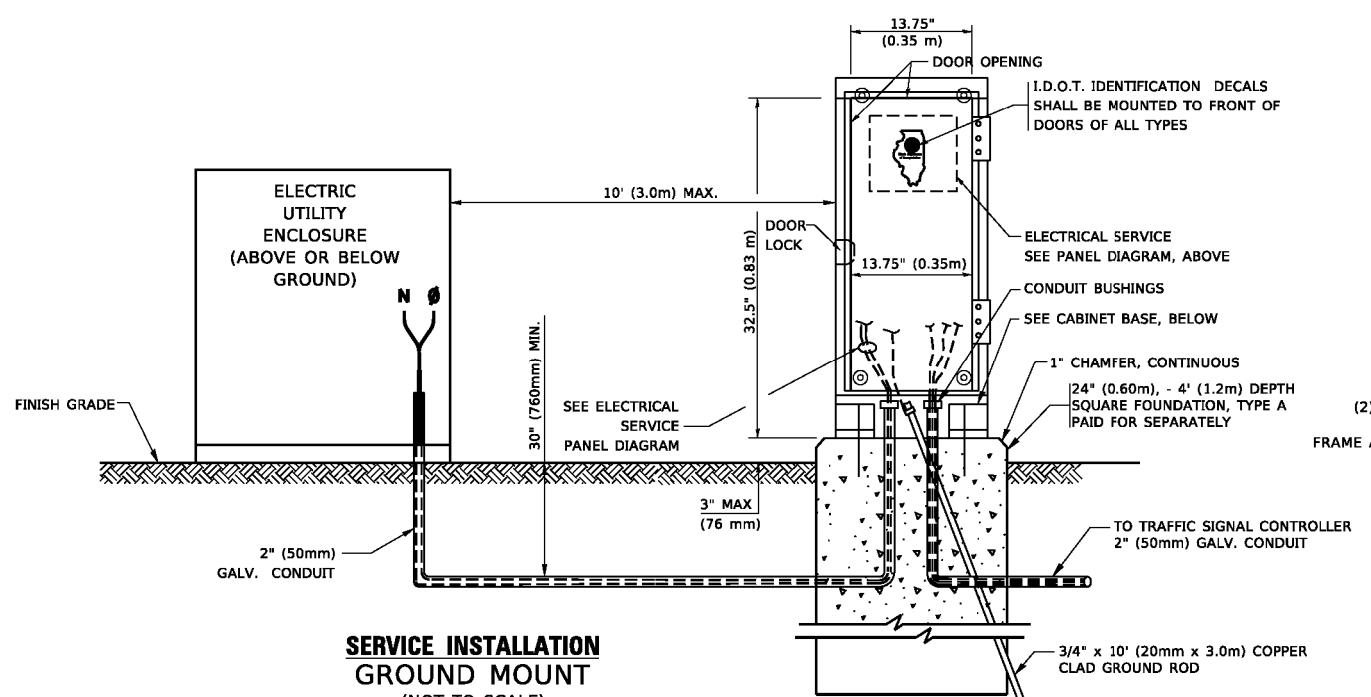
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

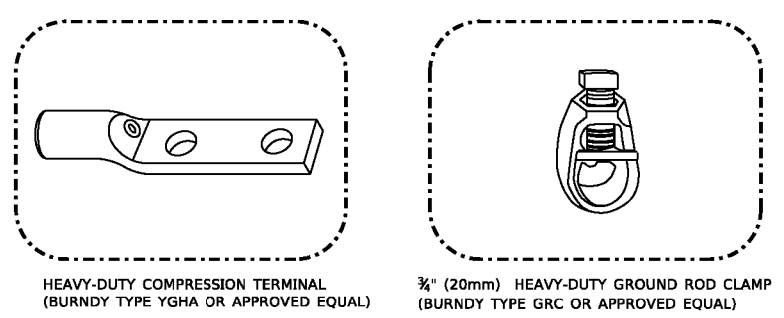
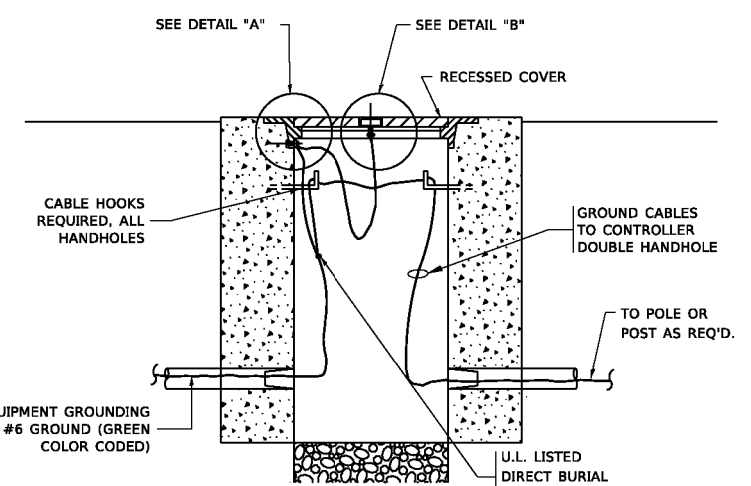
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	81
TS-05		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



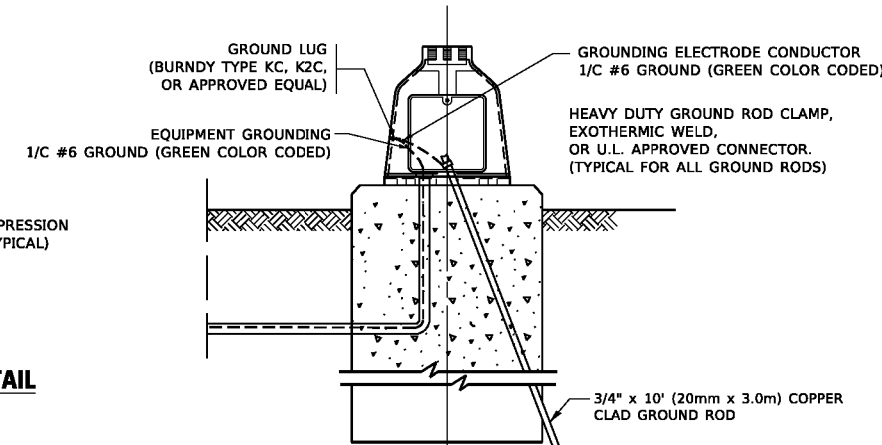
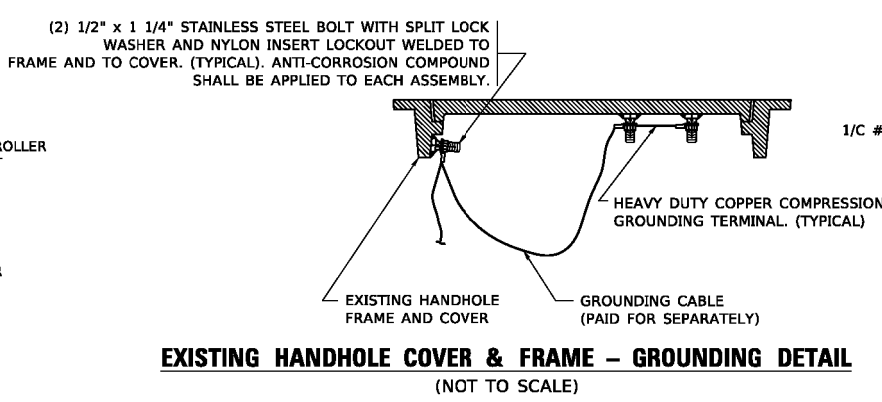
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



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



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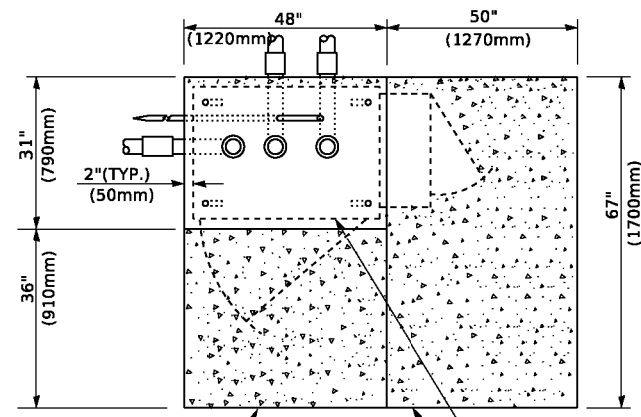
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

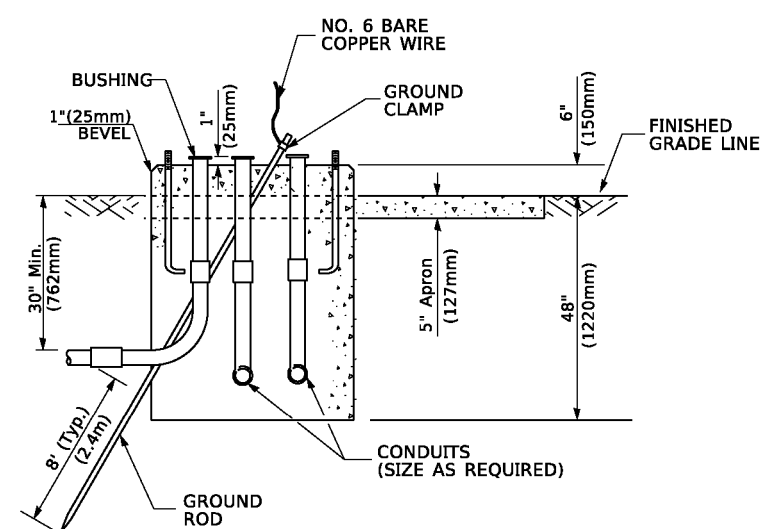
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

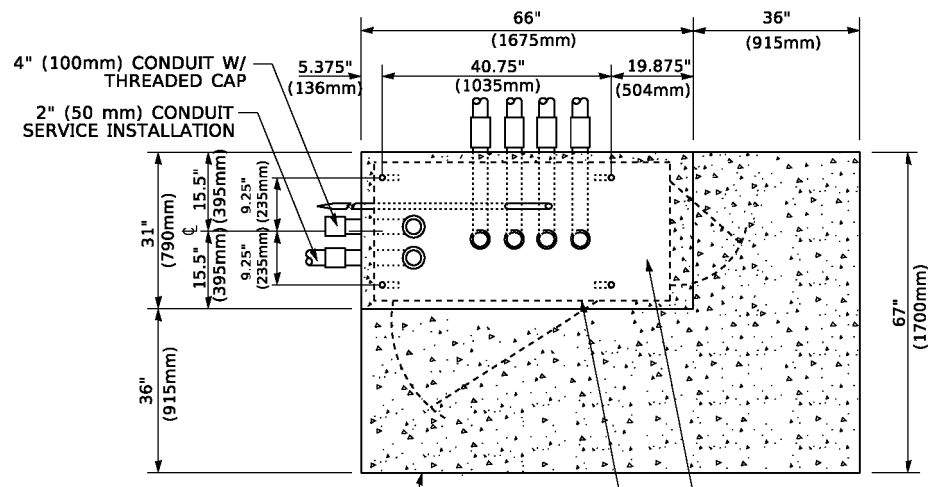
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	82
TS-05		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



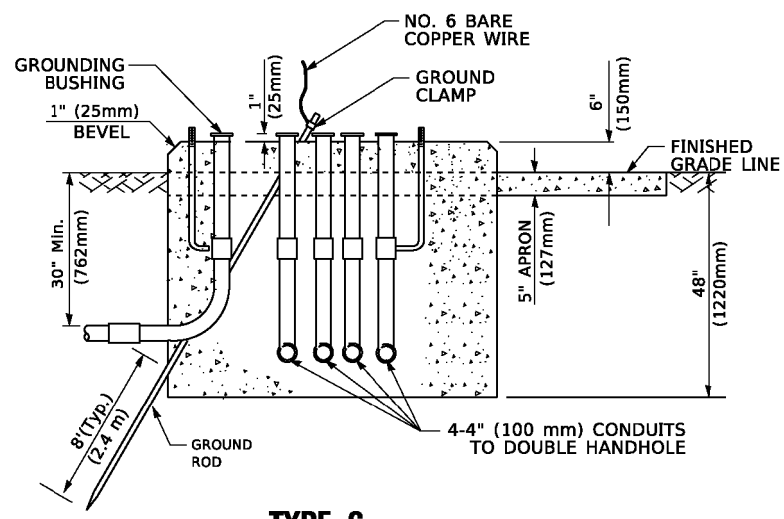
TOP VIEW



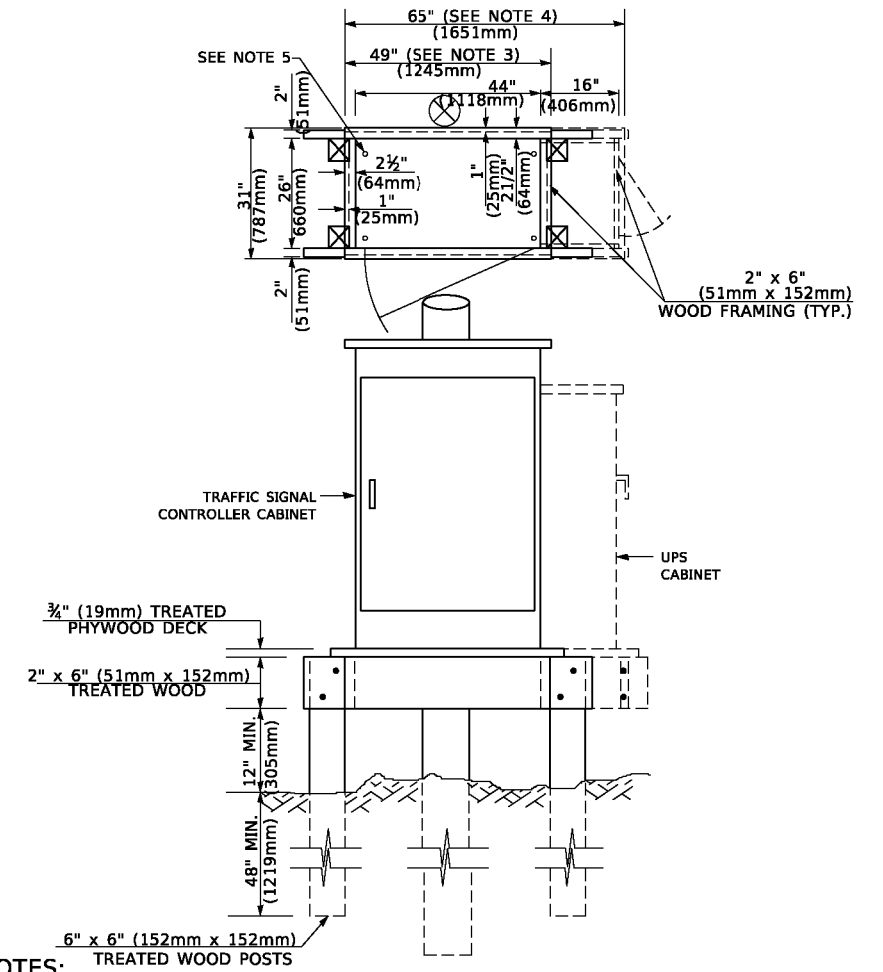
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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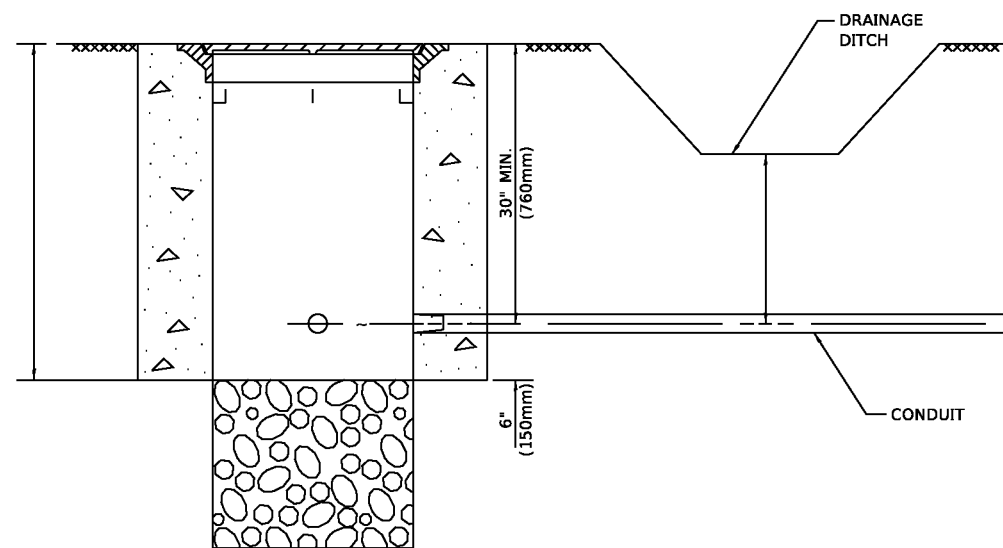
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

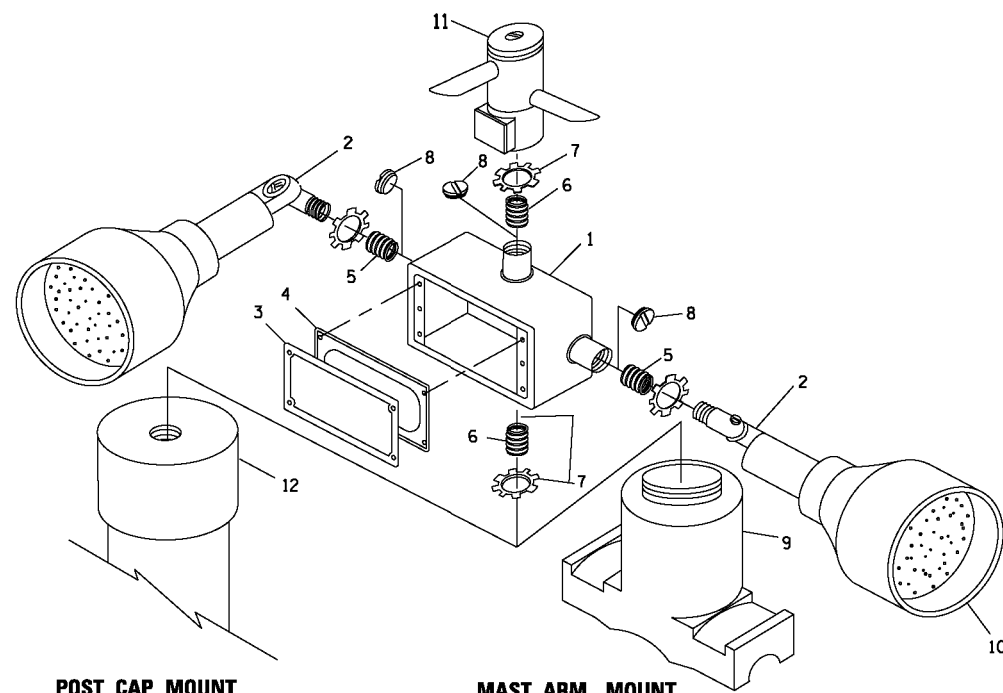
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	83
TS-05		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

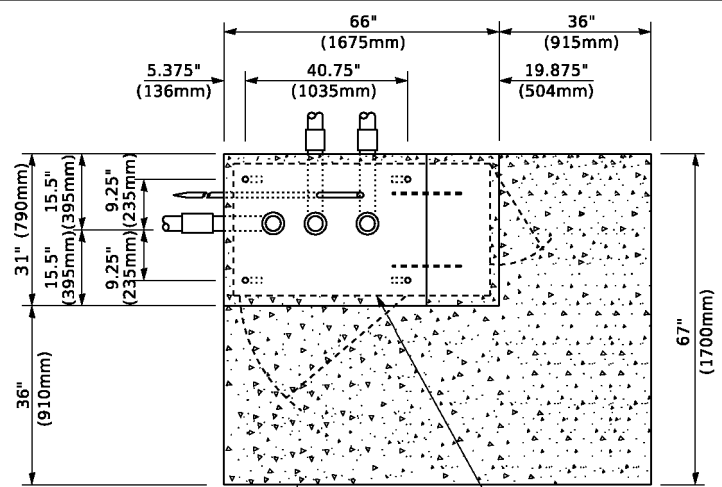


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL

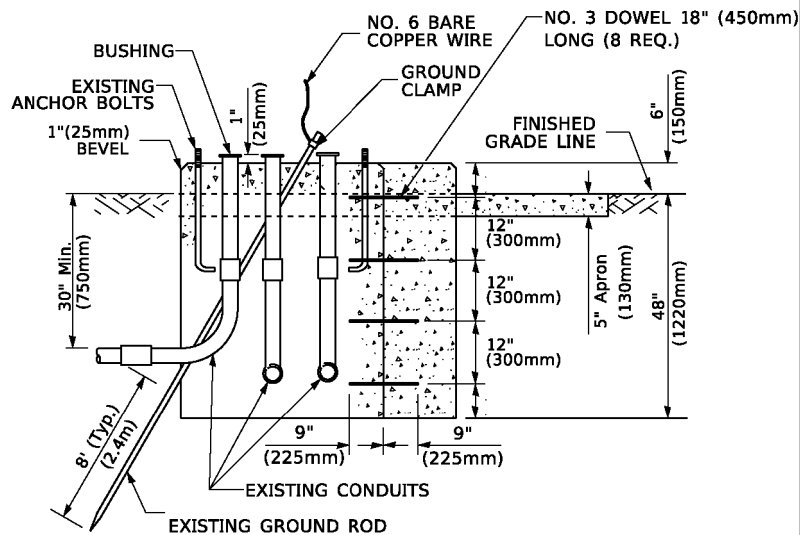
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

NOTES:

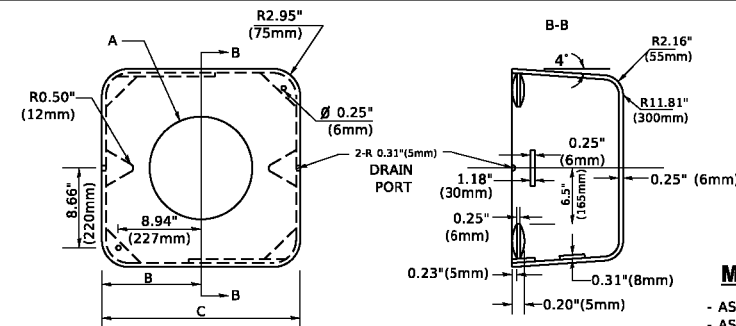
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE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



PROPOSED APRON **TOP VIEW**
(NOT TO SCALE) **CONTROLLER CABINET BASE**



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



MATERIAL

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

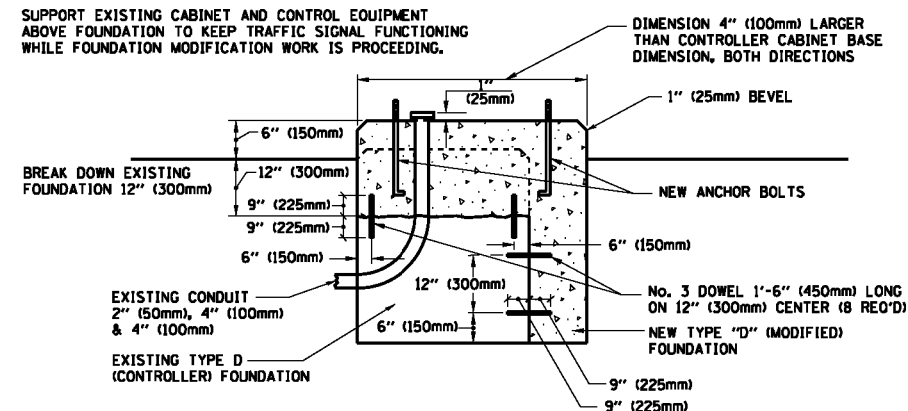
SHROUD

NOTES:

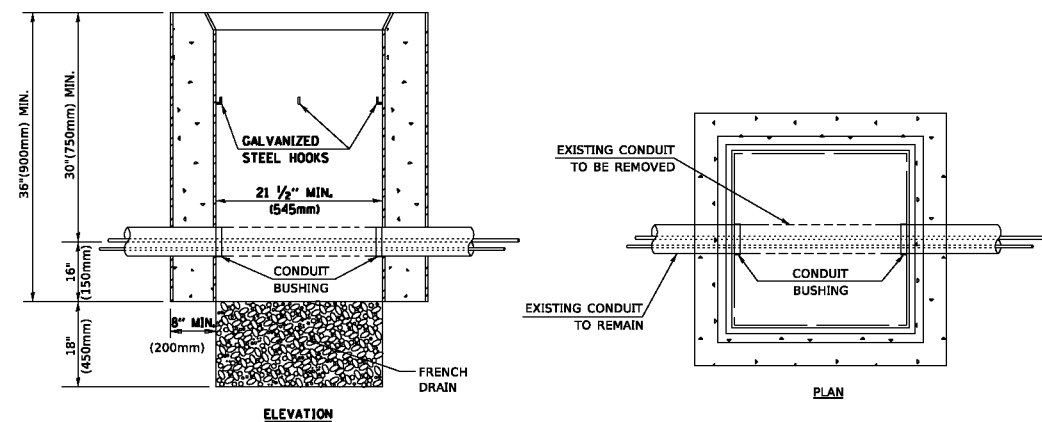
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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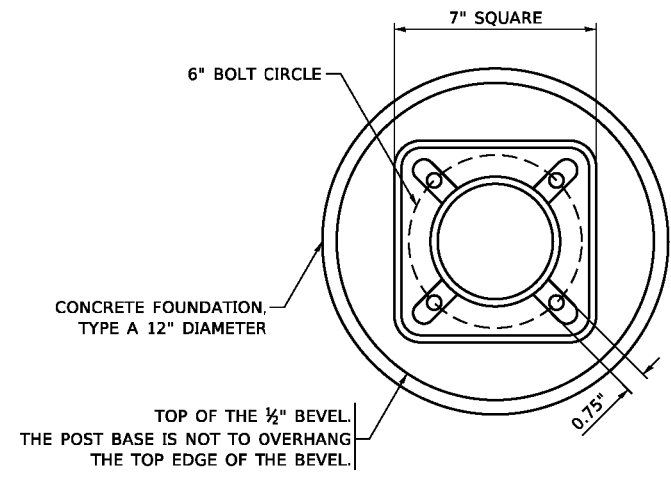
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

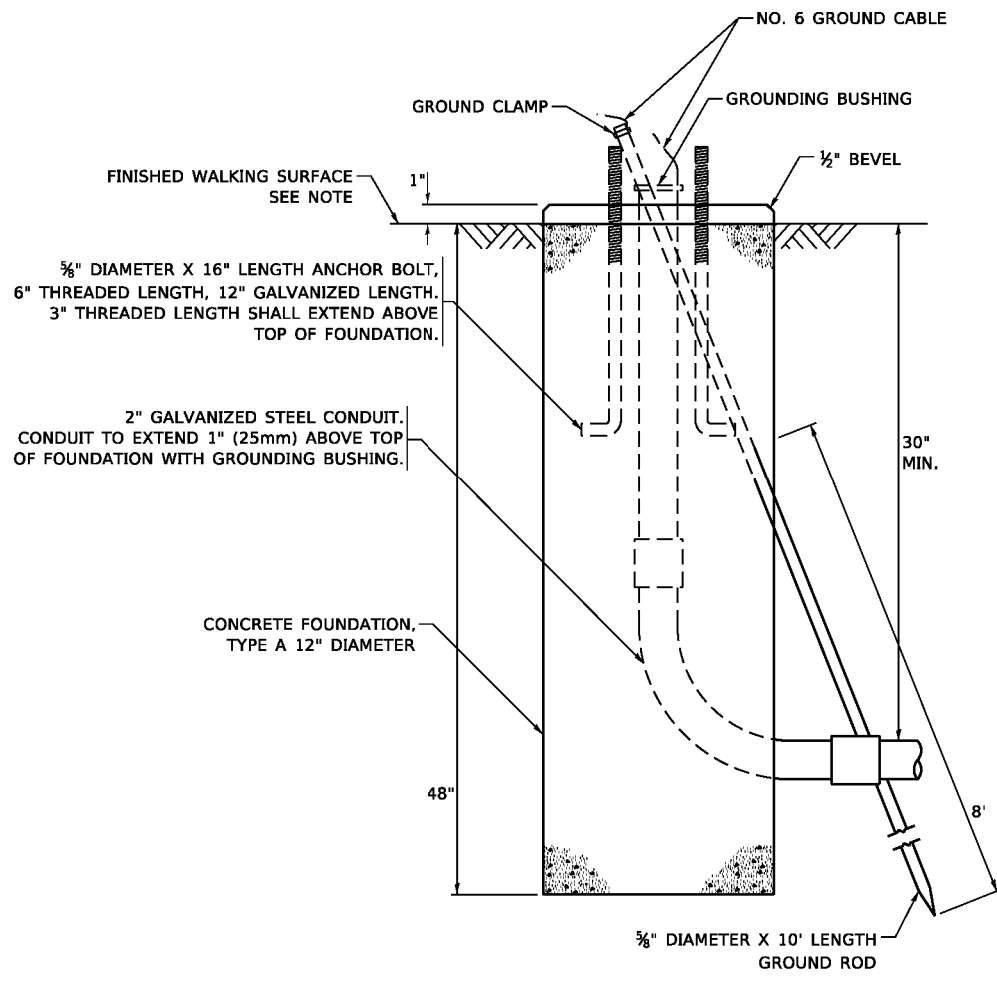
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	84
TS-05		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				

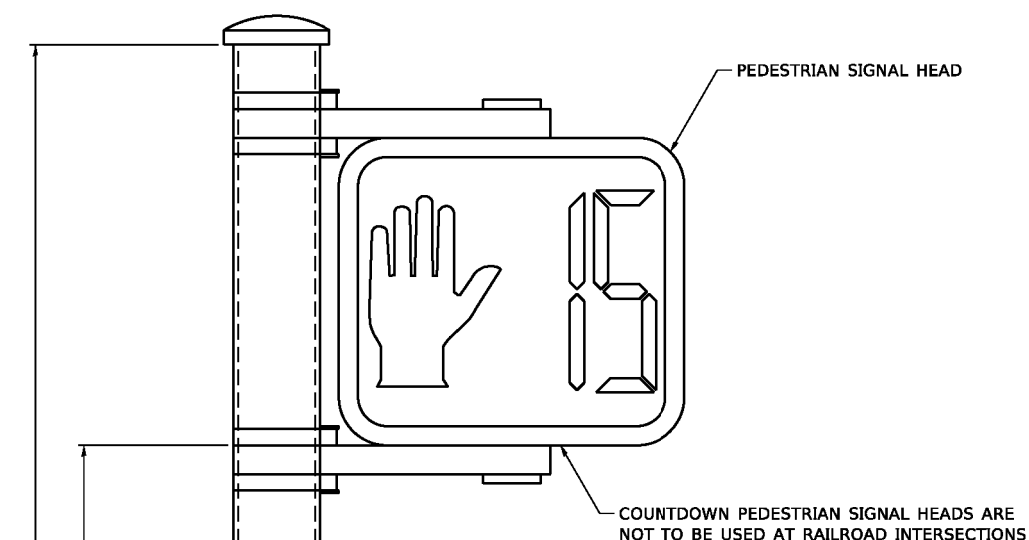


BOLT PATTERN

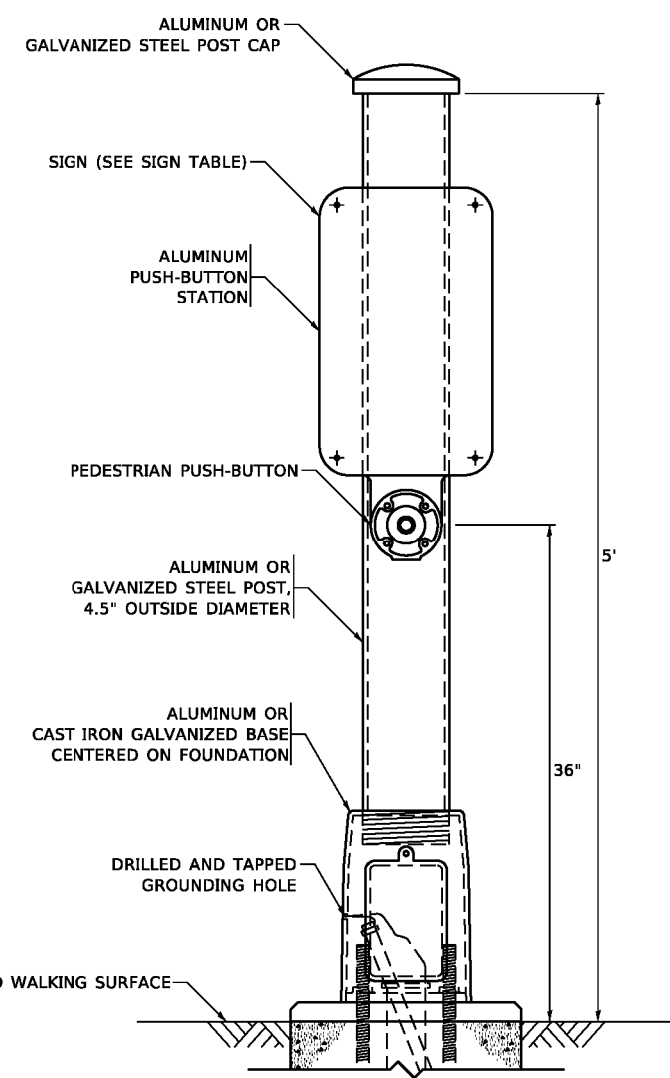
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



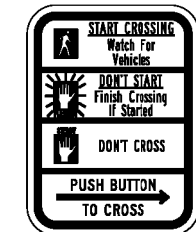
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



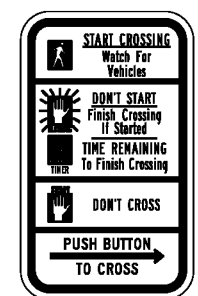
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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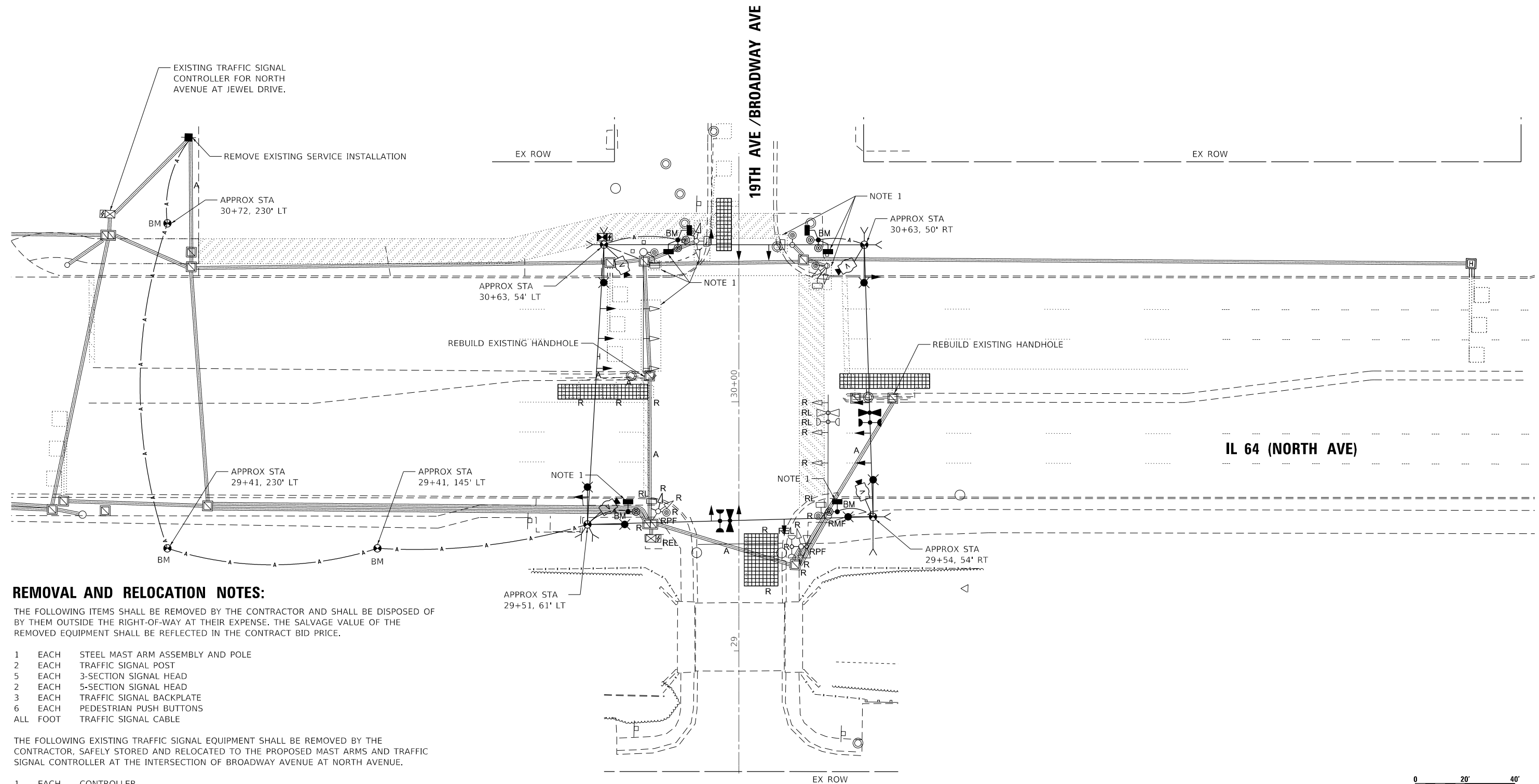
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	85
TS-05		CONTRACT NO.	61J48	
ILLINOIS FED. AID PROJECT				

TEMPORARY TRAFFIC SIGNAL NOTES:

- BAG EXISTING TRAFFIC AND PEDESTRIAN HEADS DURING CONSTRUCTION. BAG TEMPORARY PEDESTRIAN HEADS AS NOTED.



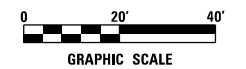
REMOVAL AND RELOCATION NOTES:

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

- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH TRAFFIC SIGNAL POST
- 5 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 5-SECTION SIGNAL HEAD
- 3 EACH TRAFFIC SIGNAL BACKPLATE
- 6 EACH PEDESTRIAN PUSH BUTTONS
- ALL FOOT TRAFFIC SIGNAL CABLE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER AT THE INTERSECTION OF BROADWAY AVENUE AT NORTH AVENUE.

- 1 EACH CONTROLLER
- 1 EACH CABINET
- 1 EACH ELECTRIC SERVICE
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 2 EACH PEDESTRIAN SIGNAL HEAD



TS# 3015
MELROSE PARK

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	DRAWN - DTJ	REVISED -
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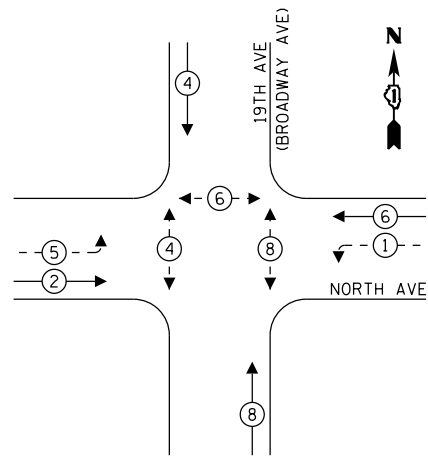
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
IL RTE 64 (NORTH AVE AT 19TH AVE)

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 86
				CONTRACT NO. 61J48
ILLINOIS FED. AID PROJECT				

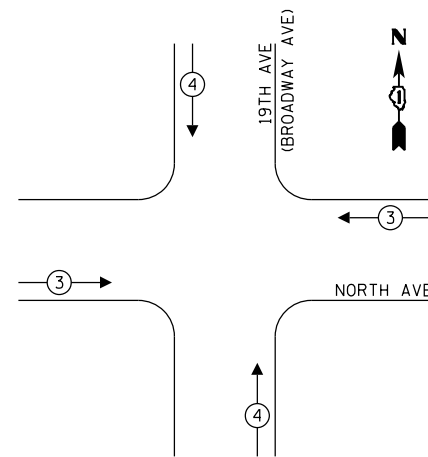
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

TEMPORARY CONTROLLER SEQUENCE



LEGEND:
 ← ⊙ ← PROTECTED PHASE
 ← ⊙ ← PROTECTED/PERMITTED PHASE
 ← ⊙ ← PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

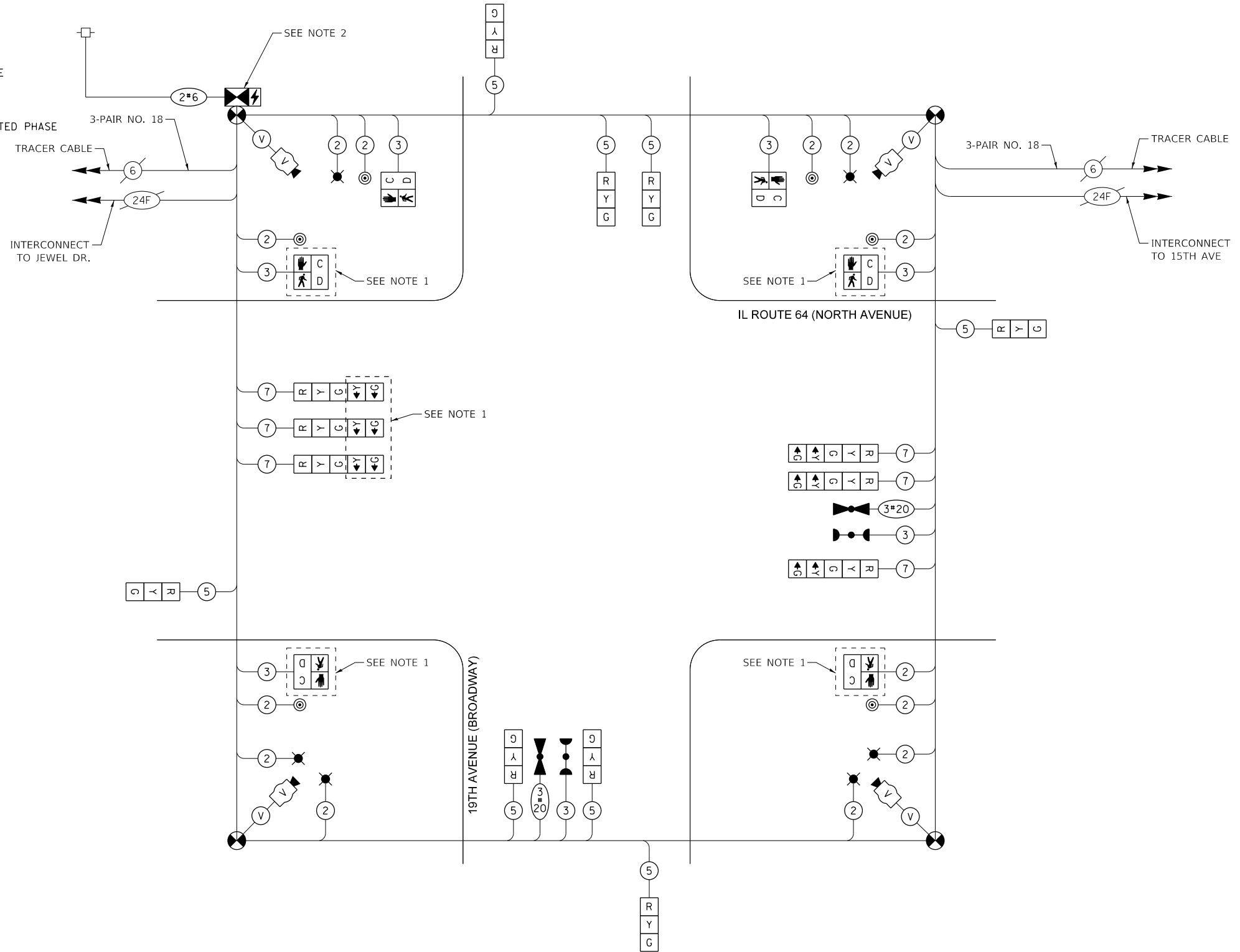
**TEMPORARY EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



**TEMPORARY TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
PROTECTED ARROW	12	10	10	8.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
SCREEN NAME SIGN	-	120	100	-
LUMINAIRE	6	150	50	450.0
TOTAL =				1019.6

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: NEW BUSINESS
 COMPANY: COMMONWEALTH EDISON
 PHONE: (866) 639-3532
 ACCOUNT NUMBER: ---



TEMPORARY CABLE PLAN
(NOT TO SCALE)

- NOTES:**
- BAG PEDESTRIAN SIGNALS AND WESTBOUND LEFT TURN ARROW SIGNALS DURING CONSTRUCTION.
 - PULL EXISTING INTERCONNECT FIBER OPTIC CABLES INTO TEMPORARY SIGNAL CONTROLLER.

TS# 3015
MELROSE PARK

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**
 IL RTE 64 (NORTH AVE AT 19TH AVE)
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

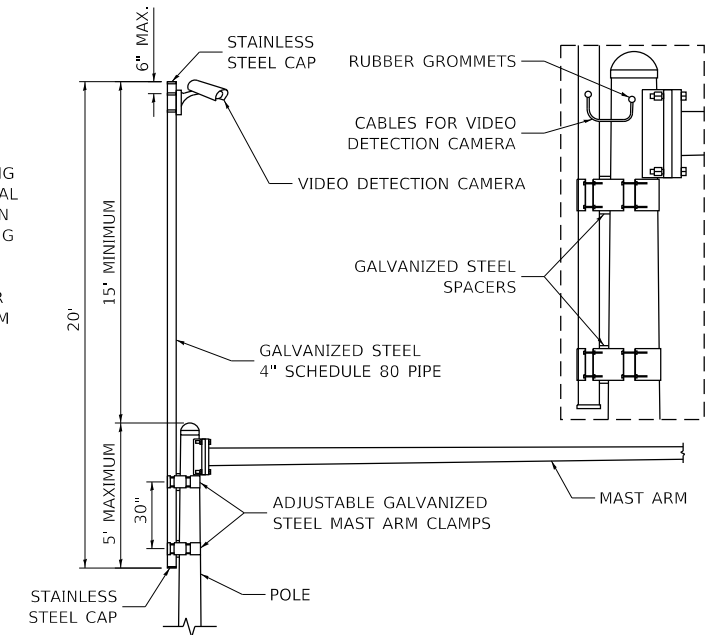
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	87
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

NOTES:

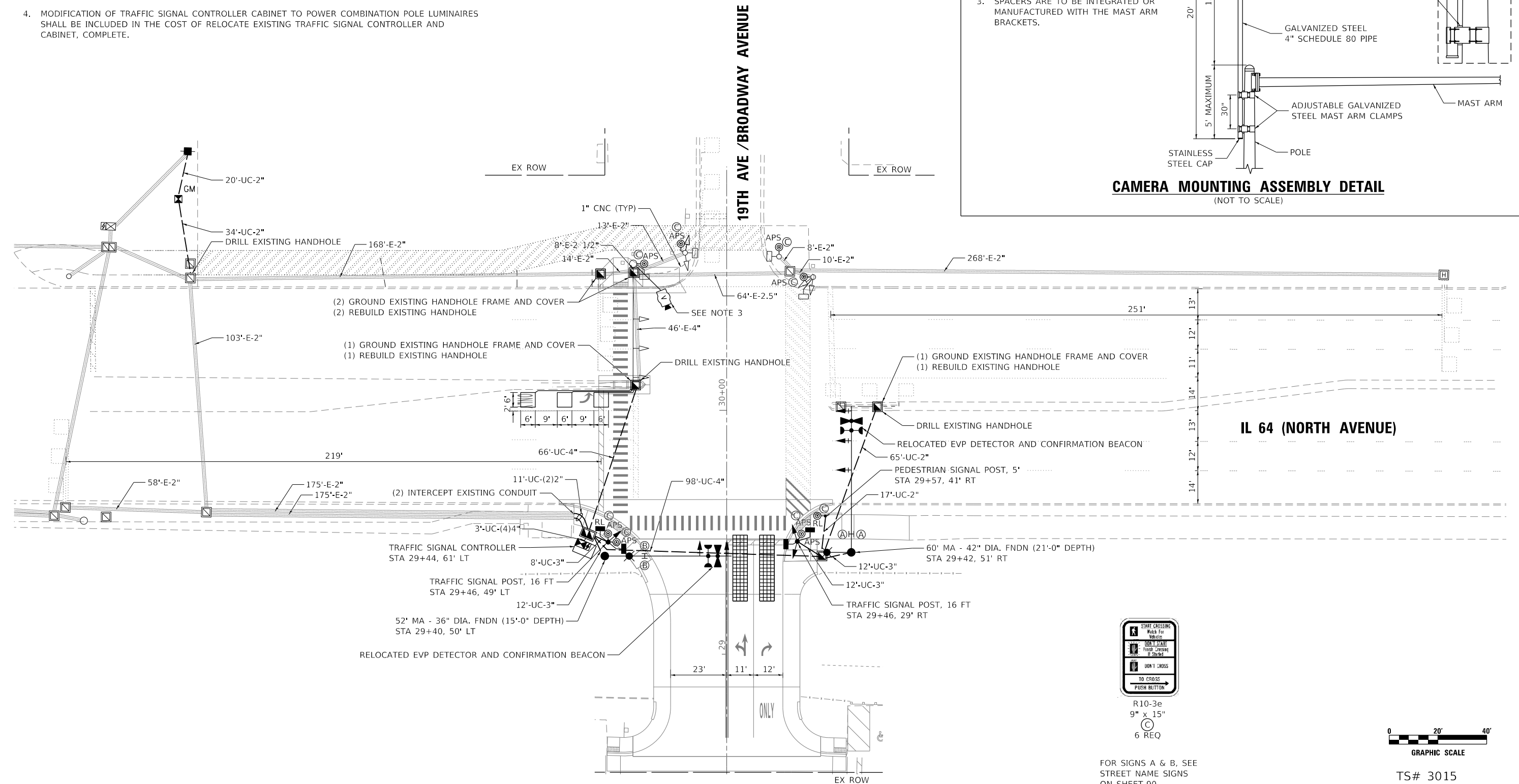
- LUMINAIRE MAST ARMS FOR COMBINATION POLES SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINES. THE LENGTH OF THE LUMINAIRE MAST ARMS SHALL BE 15'. LUMINAIRE MOUNTING HEIGHT SHALL BE 45'.
- EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.
- VIDEO DETECTION CAMERA TO BE MOUNTED ON 20' VERTICAL EXTENSION ON THE EXISTING TRAFFIC SIGNAL POLE. THE COST OF THE VERTICAL EXTENSION IS INCLUDED IN THE COST OF CAMERA MOUNTING ASSEMBLY, SPECIAL. SEE CAMERA MOUNTING ASSEMBLY DETAIL.
- MODIFICATION OF TRAFFIC SIGNAL CONTROLLER CABINET TO POWER COMBINATION POLE LUMINAIRES SHALL BE INCLUDED IN THE COST OF RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE.

DETAIL NOTES:

- THE MAST ARM IS TAPERED.
- INSTALL EXTENSION POLE VERTICAL AND PLUMB BY MODIFYING/INSTALLING BRACKETS AS NECESSARY. ADDITIONAL SPACERS REQUIRED ARE INCLUDED IN THE COST OF THE CAMERA MOUNTING ASSEMBLY OF THE TYPE SPECIFIED.
- SPACERS ARE TO BE INTEGRATED OR MANUFACTURED WITH THE MAST ARM BRACKETS.



CAMERA MOUNTING ASSEMBLY DETAIL
(NOT TO SCALE)



R10-3e
9" x 15"
6 REQ



FOR SIGNS A & B, SEE STREET NAME SIGNS ON SHEET 90

TS# 3015
MELROSE PARK

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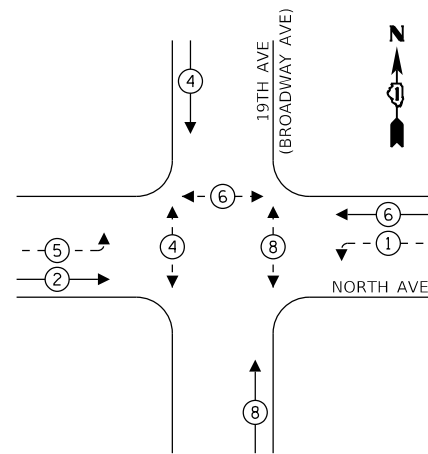
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
IL RTE 64 (NORTH AVE AT 19TH AVE)**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	88
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

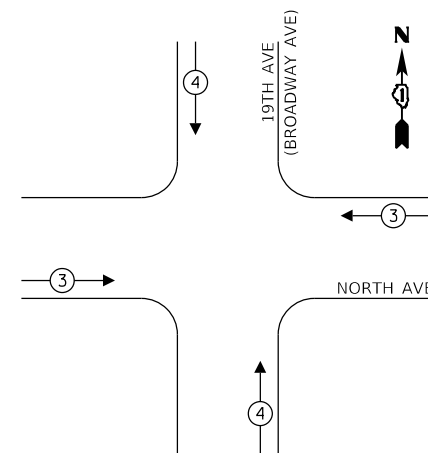
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← * → PROTECTED PHASE
- ← * - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



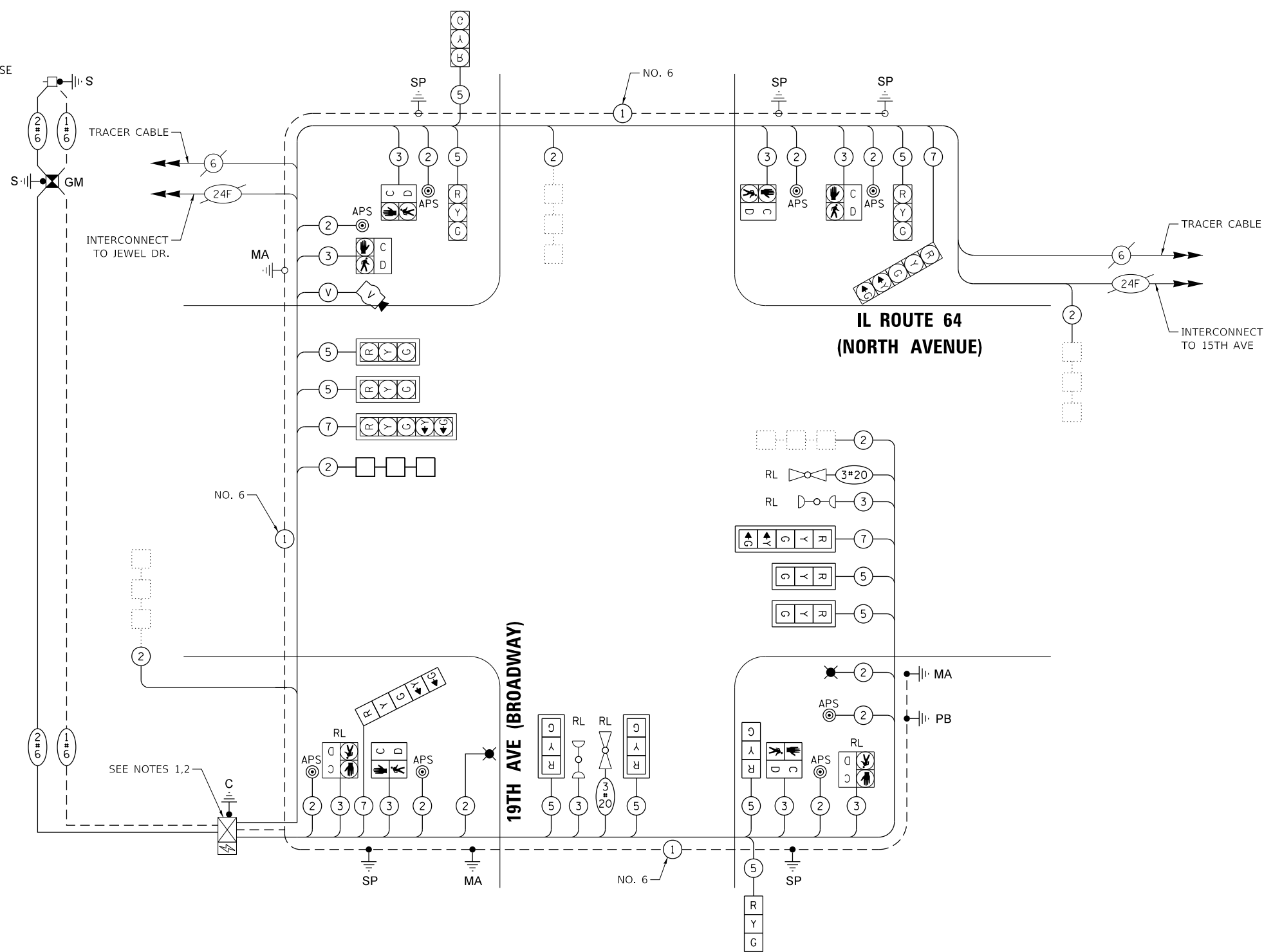
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15.0
(GREEN)	15	12	45	81.0
PROTECTED ARROW	8	10	10	8.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
SCREEN NAME SIGN	-	120	100	-
LUMINAIRE	2	150	50	150.0
TOTAL =				771.5

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: NEW BUSINESS
COMPANY: COMMONWEALTH EDISON
PHONE: (866) 639-3532
ACCOUNT NUMBER: ---



PROPOSED CABLE PLAN
(NOT TO SCALE)

NOTES:

1. REINSTALLED EXISTING TRAFFIC SIGNAL CABINET. PAID FOR AS RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE.
2. PULL EXISTING FIBER OPTIC CABLES INTO RELOCATED SIGNAL CABINET.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 64 (NORTH AVE AND 19TH AVE)**
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

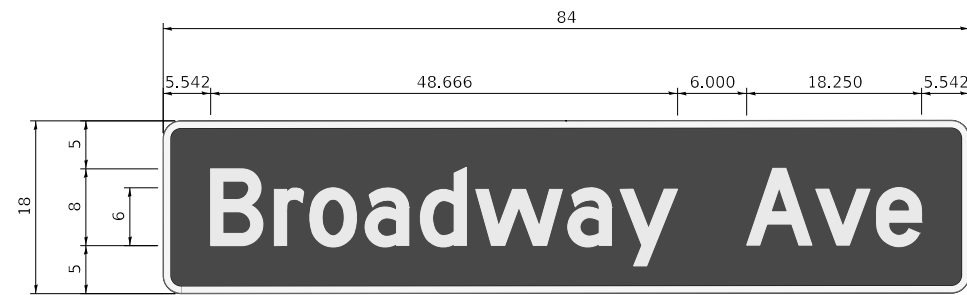
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2406	16-00131-00-BR	COOK	102	89
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

TS# 3015
MELROSE PARK

SCHEDULE OF QUANTITIES

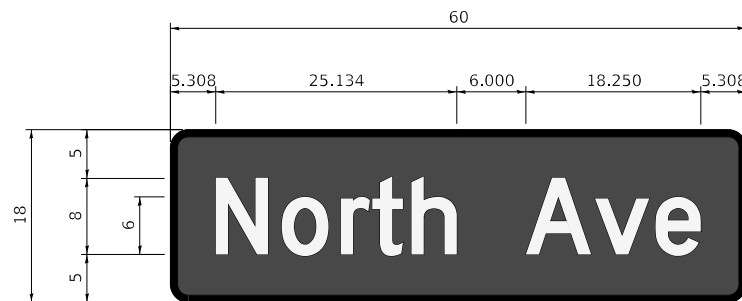
STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



(A)

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	2	ZZ	2



(B)

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	2

DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	21
SIGN PANEL - TYPE 2	SQ FT	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	136
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	44
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	164
HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	595
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,176
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,546
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,590
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	737
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,203
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	350
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	447
TRAFFIC SIGNAL POST, 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
DRILL EXISTING HANDHOLE	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
DETECTOR LOOP, TYPE I	FOOT	155
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
* REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	4
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	328
* ROD AND CLEAN EXISTING CONDUIT	FOOT	149
RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER AND CABINET, COMPLETE	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
PEDESTRIAN SIGNAL POST, 5 FT.	EACH	1
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	1
INTERCEPT EXISTING CONDUIT	EACH	2
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	4
CAMERA MOUNTING ASSEMBLY, SPECIAL	EACH	1

* 100% OF COST TO THE VILLAGE OF MELROSE PARK

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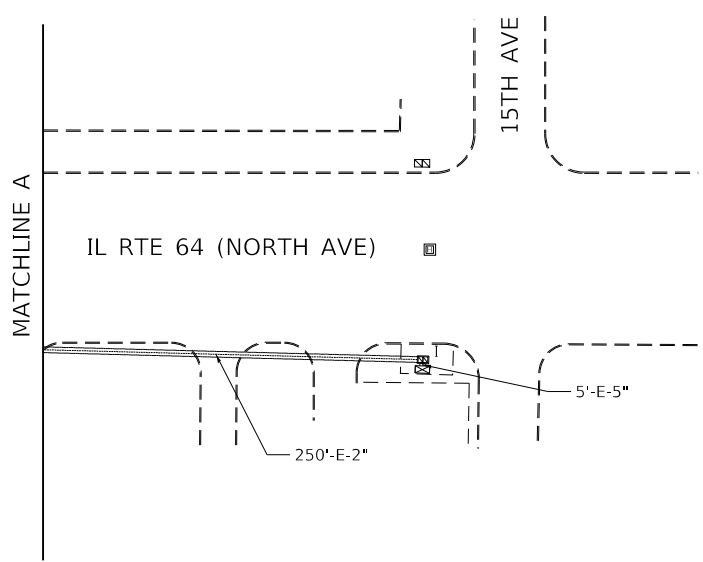
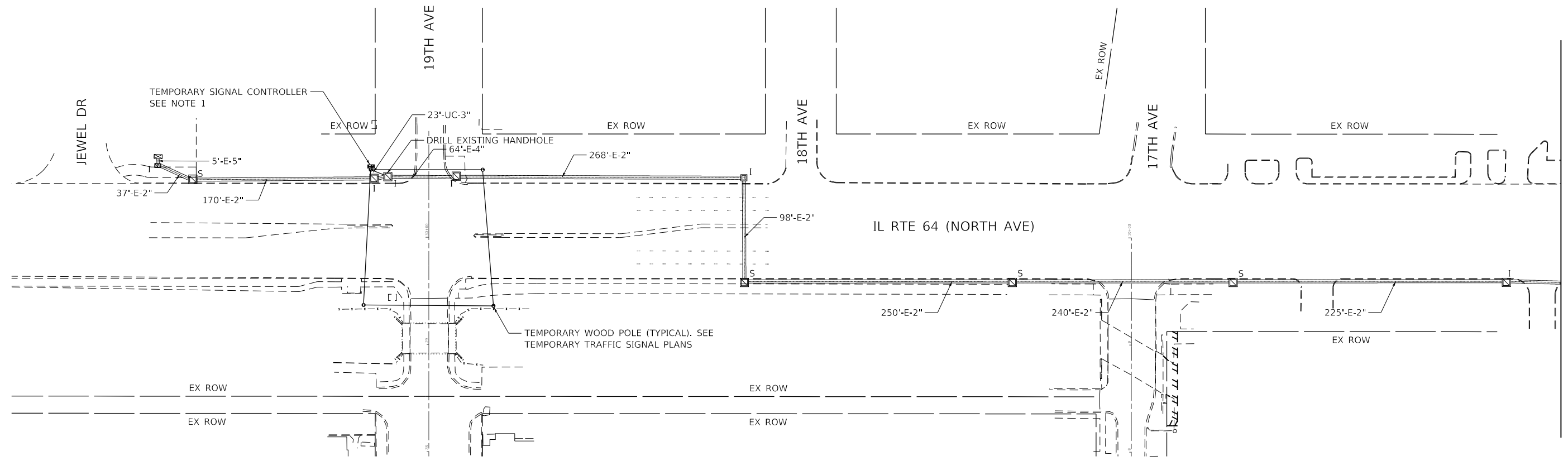
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL RTE 64 (NORTH AVE AND 19TH AVE)**

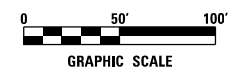
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F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 90
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



NOTES:

1. PULL EXISTING INTERCONNECT FIBER OPTIC CABLES INTO TEMPORARY SIGNAL CONTROLLER.



ECON 100

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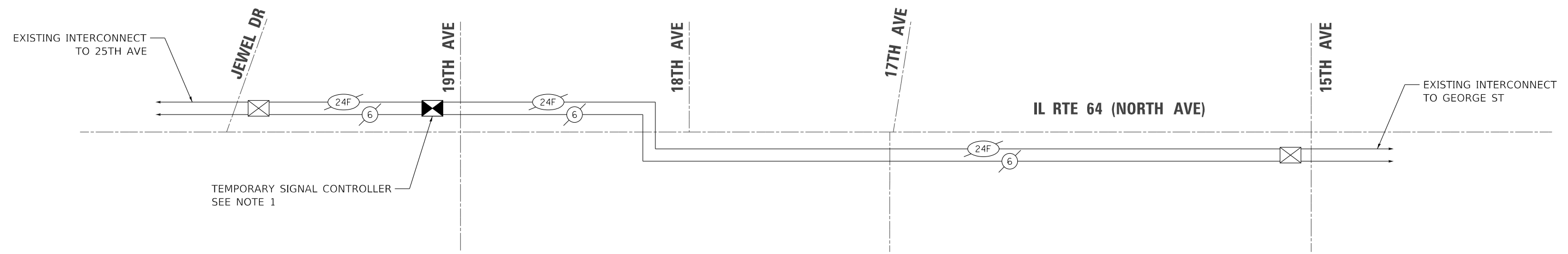


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PLOT DATE = 2/16/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN IL RTE 64 (NORTH AVE AT 19TH AVE) JEWEL DR TO 15TH AVE		
SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	91
CONTRACT NO.				61J48
ILLINOIS FED. AID PROJECT				



NOTES:

1. PULL EXISTING INTERCONNECT FIBER OPTIC CABLES INTO TEMPORARY SIGNAL CONTROLLER.
2. THE FOLLOWING INTERSECTIONS SHALL BE MAINTAINED BY THE CONTRACTOR:
 IL RTE 64 AND JEWEL DR
 IL RTE 64 AND 19TH AVE
 IL RTE 64 AND 15TH AVE
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND LOCATE THE EXISTING FIBER OPTIC CABLE BETWEEN THE INTERSECTIONS LISTED ABOVE. THE INTERCONNECT SYSTEMS BEYOND THE INTERSECTION WILL BE MAINTAINED BY IDOT.

ECON 100

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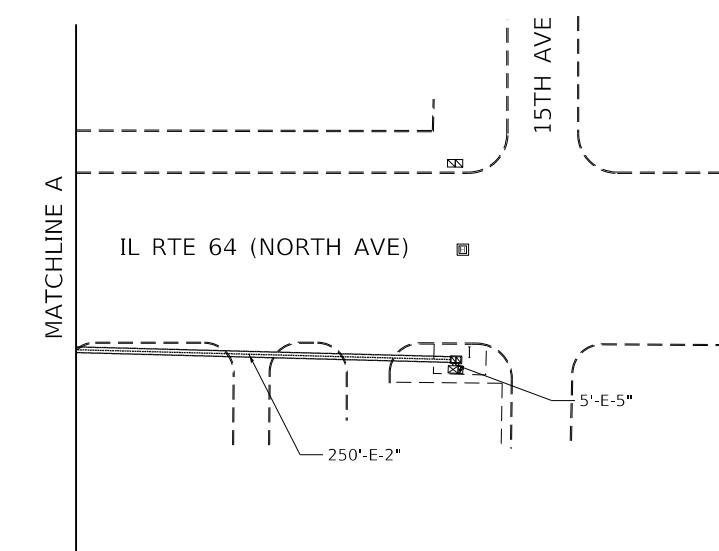
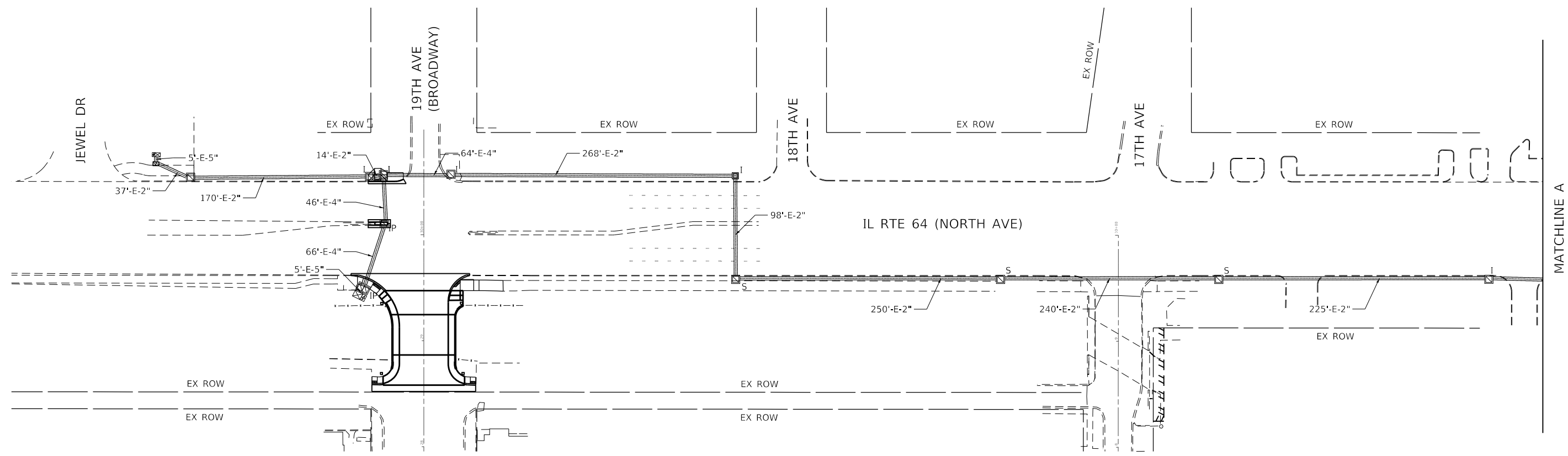
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC
(NORTH AVE AT 19TH AVE)
JEWEL DR TO 15TH AVE**

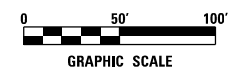
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	92
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



NOTES:

1. PULL EXISTING INTERCONNECT FIBER OPTIC CABLES FROM TEMPORARY SIGNAL CONTROLLER INTO RELOCATED SIGNAL CONTROLLER IN SW QUADRANT OF THE INTERSECTION.



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PLOT DATE = 2/16/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN
IL RTE 64 (NORTH AVE AT 19TH AVE)
JEWEL DR TO 15TH AVE

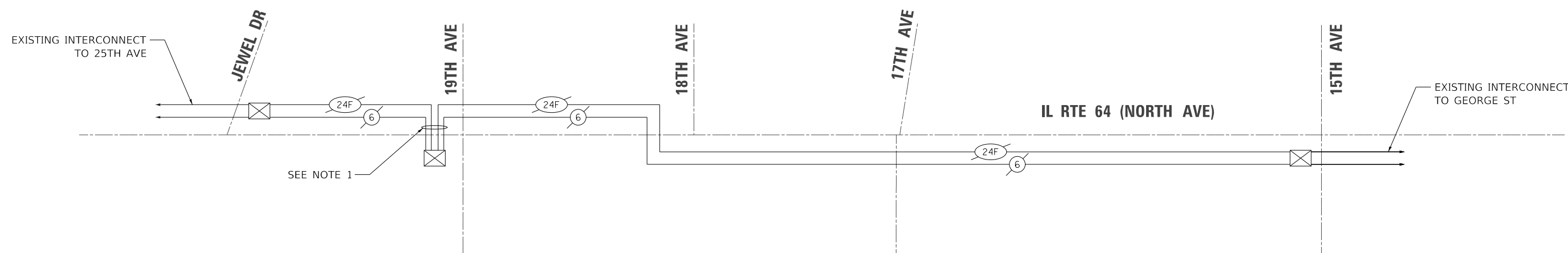
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	93
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				



NOTES:

- PULL EXISTING INTERCONNECT FIBER OPTIC CABLES FROM TEMPORARY SIGNAL CONTROLLER INTO RELOCATED TRAFFIC SIGNAL CONTROLLER IN SW QUADRANT OF THE INTERSECTION.



SUMMARY OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	145
REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT	FOOT	360

ECON 100

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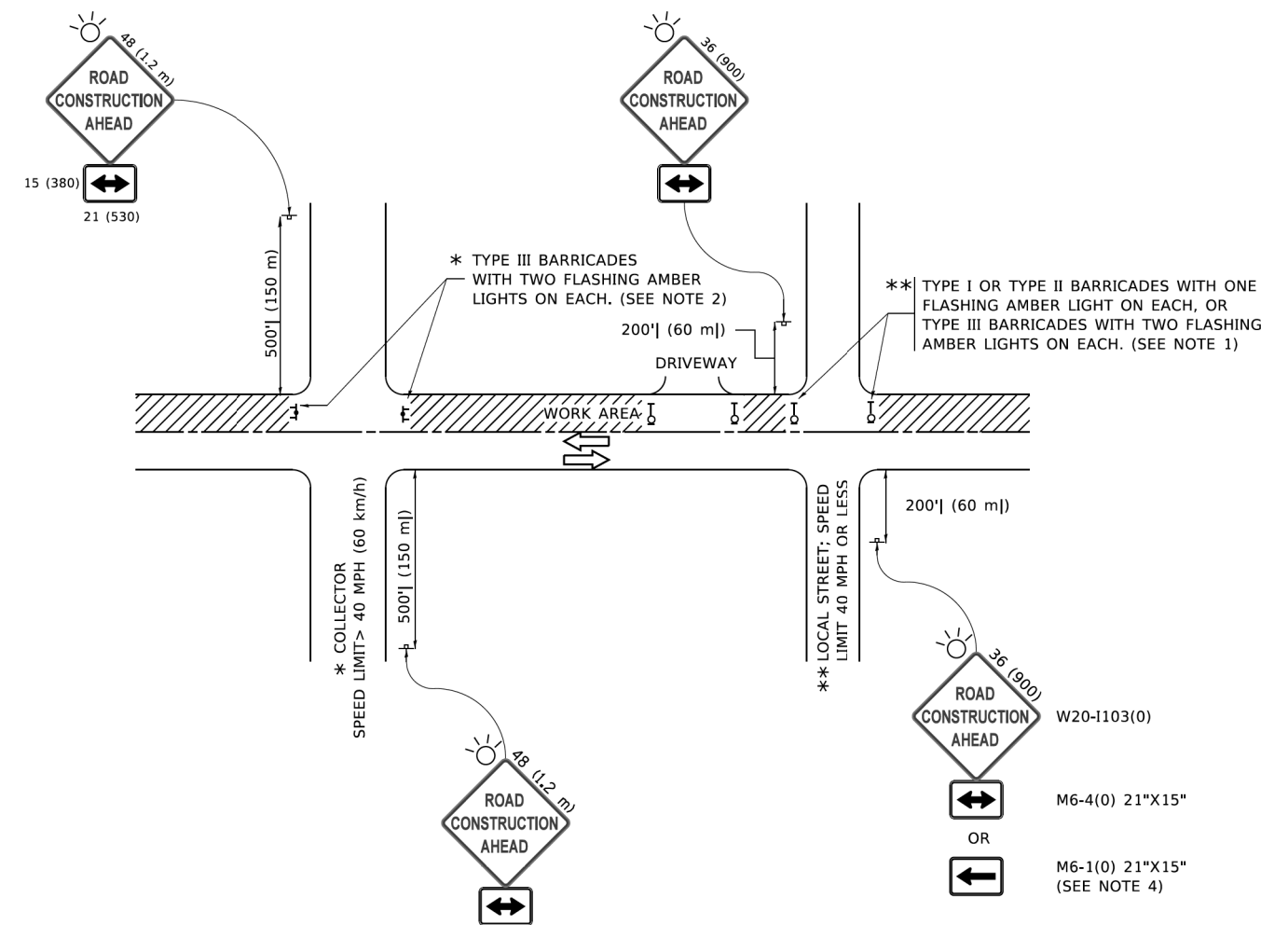
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
(NORTH AVE AT 19TH AVE)
JEWEL DR TO 15TH AVE**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	94
CONTRACT NO. 61J48			ILLINOIS FED. AID PROJECT	



NOTES:

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

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

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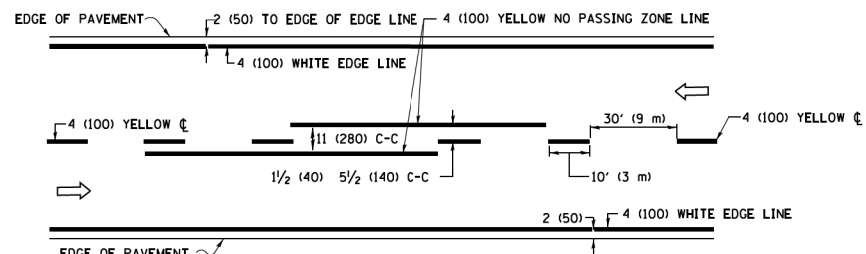
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

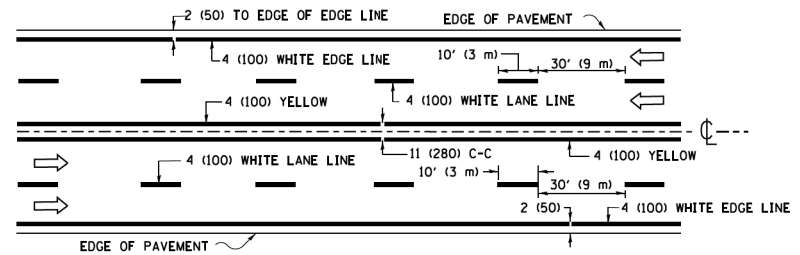
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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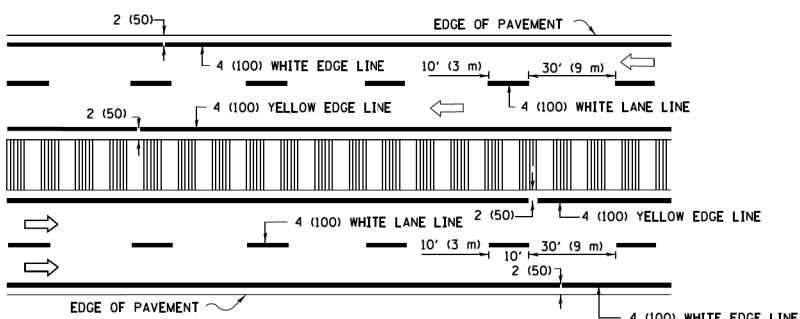
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2406	16-00131-00-BR	COOK	102	95
TC-10			CONTRACT NO. 61J48	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

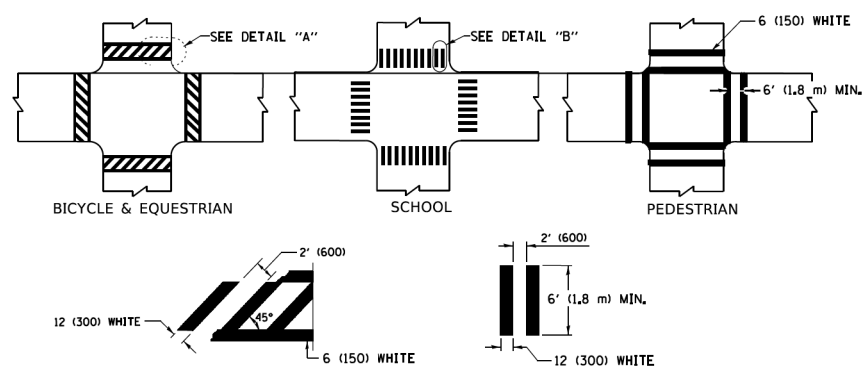


MULTI-LANE UNDIVIDED



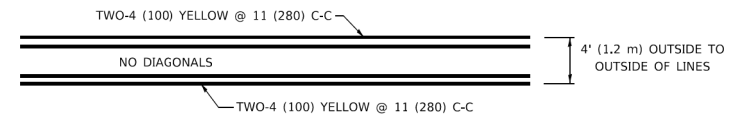
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

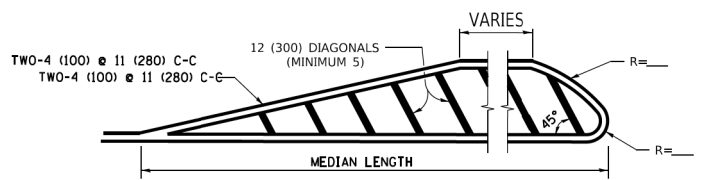


TYPICAL CROSSWALK MARKING

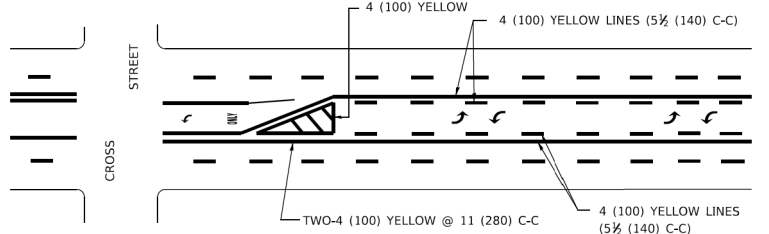
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



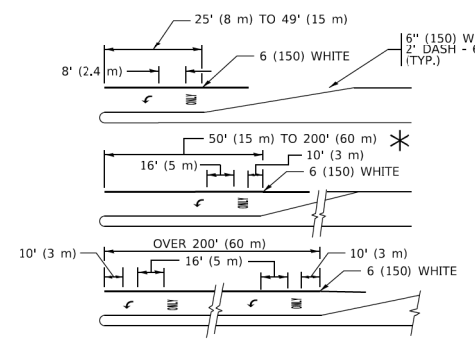
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

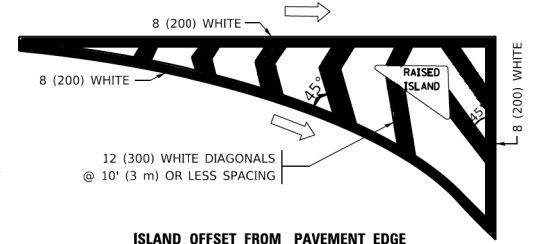


TYPICAL LEFT (OR RIGHT) TURN LANE

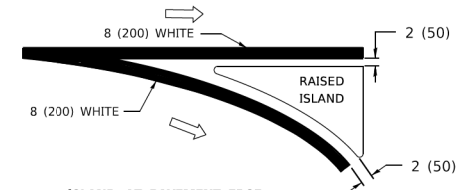
TYPICAL TURN LANE MARKING

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

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

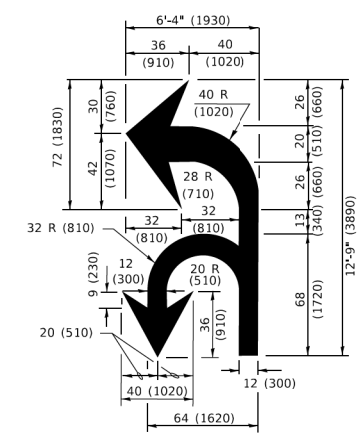


ISLAND OFFSET FROM PAVEMENT EDGE

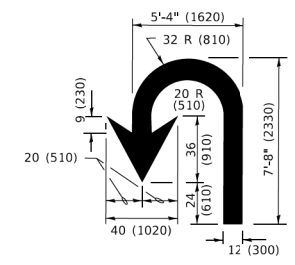


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 2' (600) APART 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" 15' 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	96
TC-13		CONTRACT NO. 61J48		
ILLINOIS		FED. AID PROJECT		

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ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

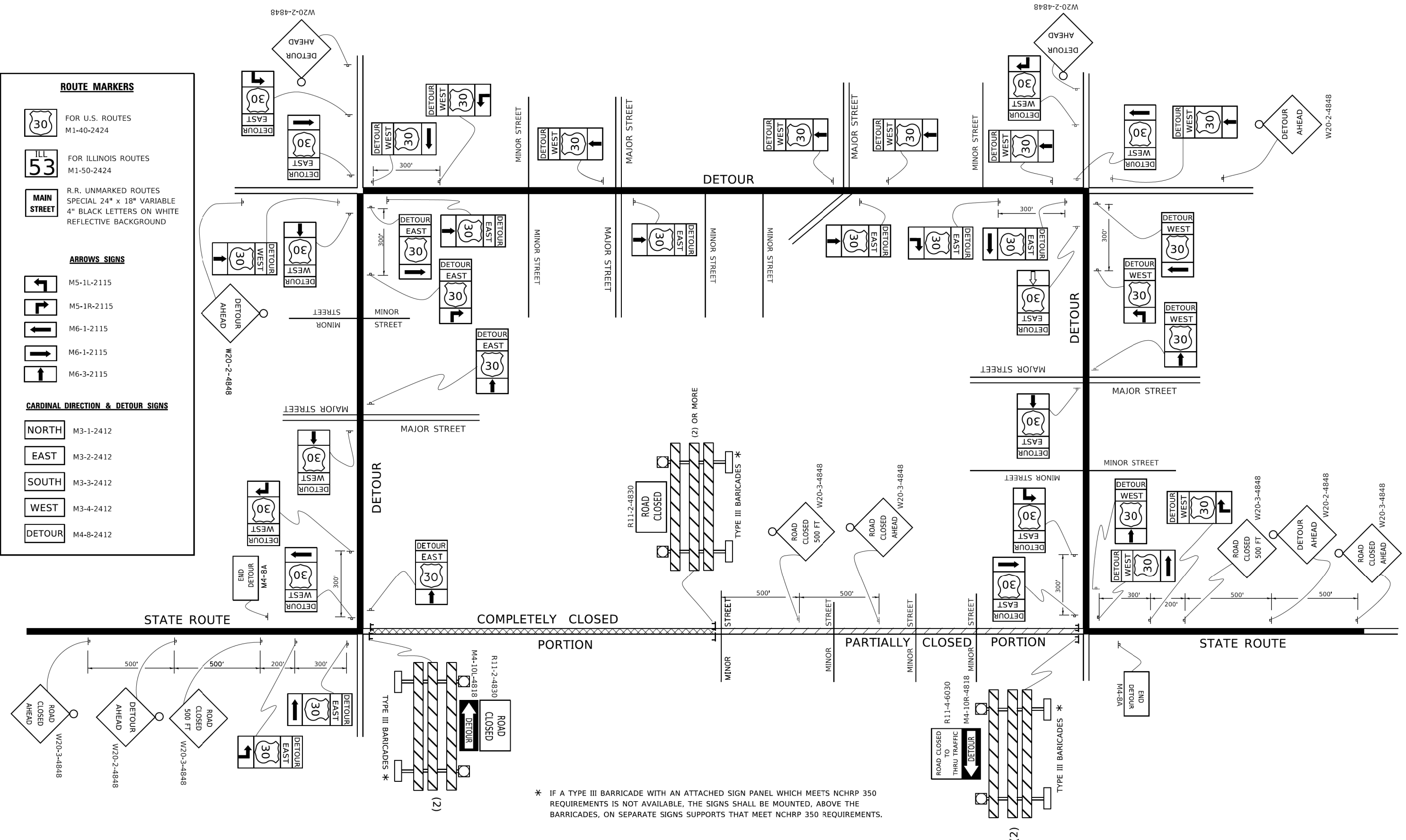
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

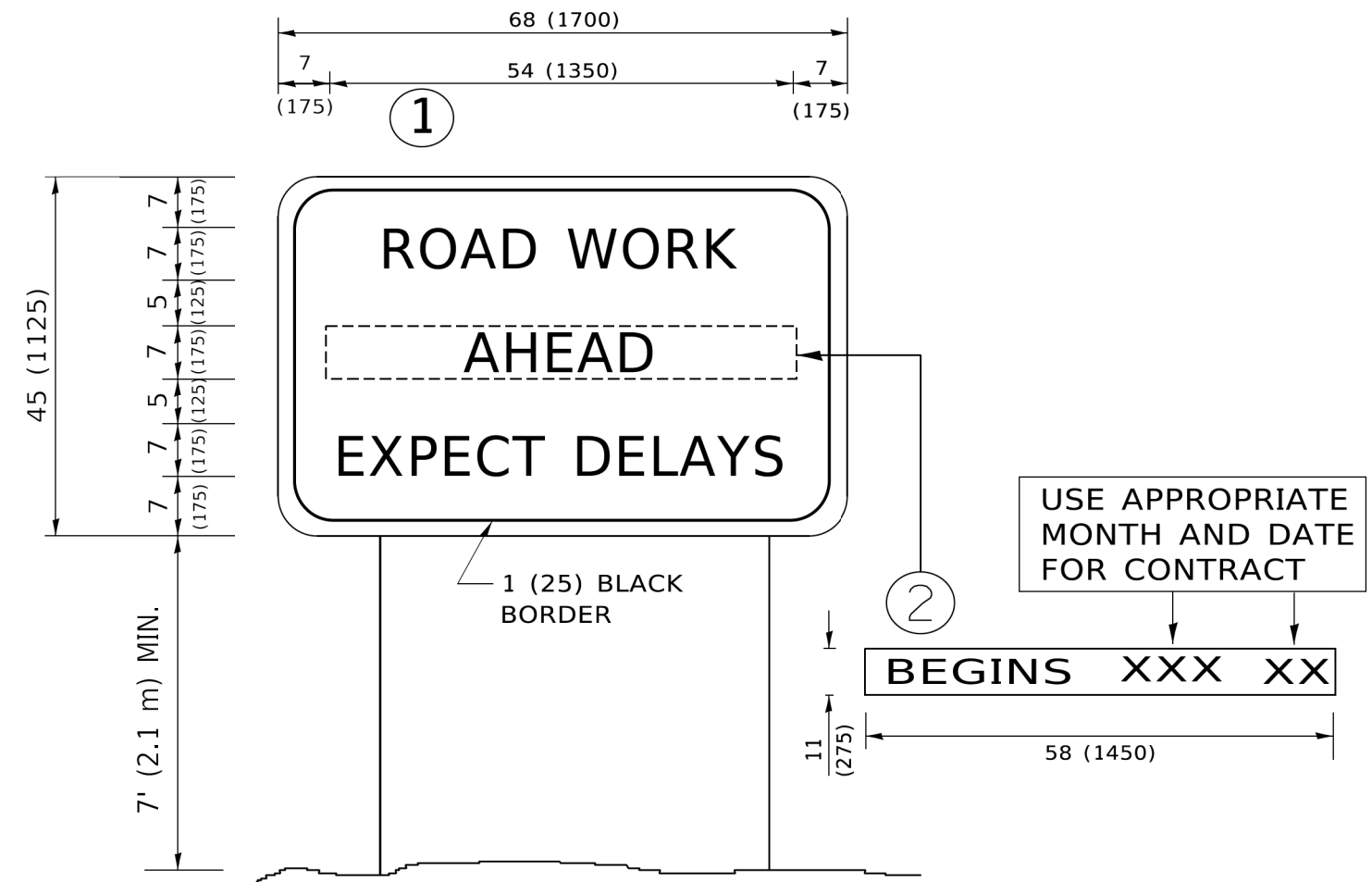
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PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
 FOR CLOSING STATE HIGHWAYS**

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

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 97
TC-21		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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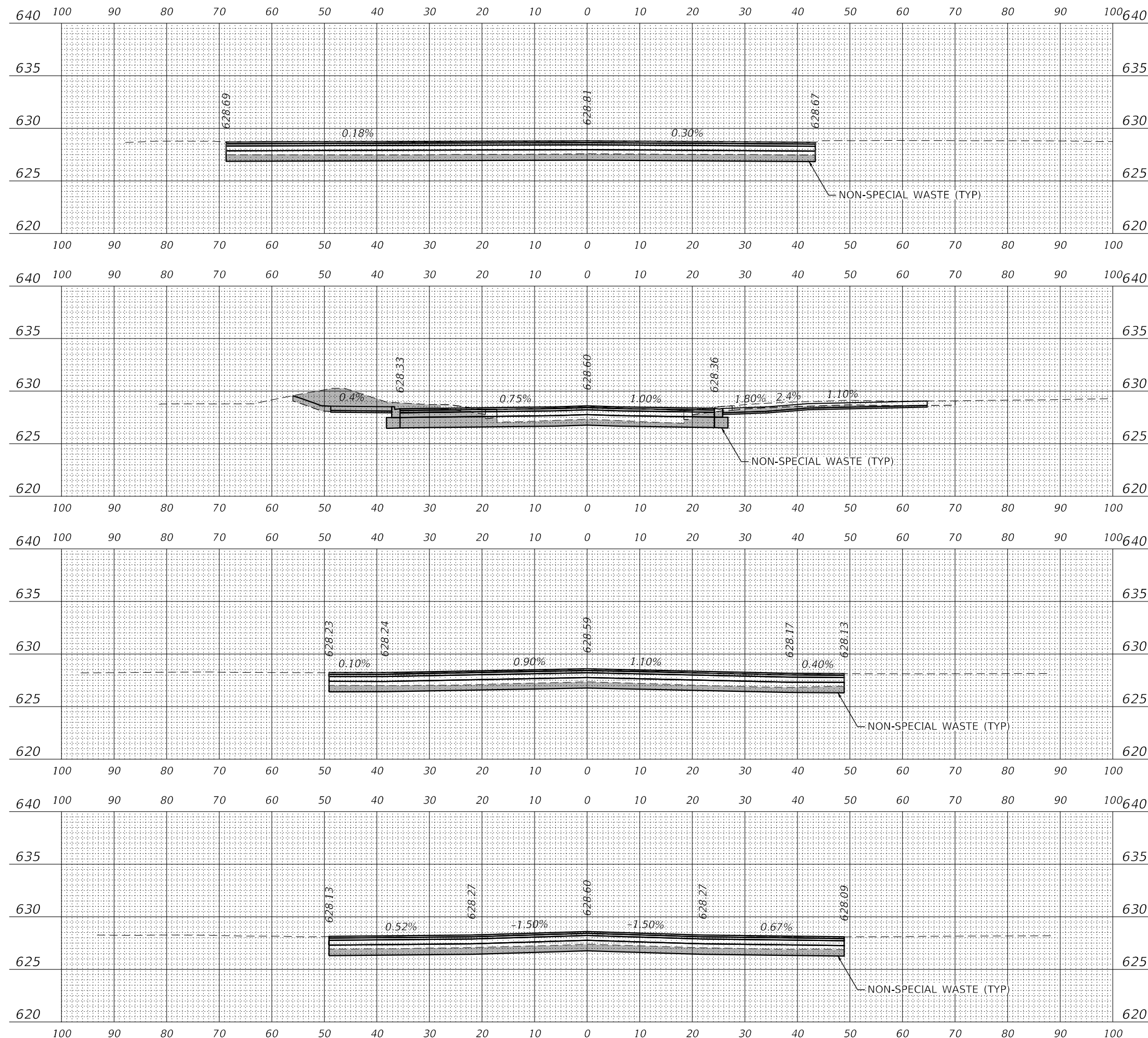
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 98
TC-22		CONTRACT NO. 61J48		
ILLINOIS FED. AID PROJECT				



C = 66.66 Sq. Ft.
 F = 0.00 Sq. Ft.
 CV = 52.7 Cu. Yd.
 FV = 0.0 Cu. Yd.

29 + 63.37 R1

C = 109.41 Sq. Ft.
 F = 0.00 Sq. Ft.
 CV = 64.3 Cu. Yd.
 FV = 9.9 Cu. Yd.

29 + 47.22 R1

**BRIDGE OMISSION
 28 + 58.04 TO 29 + 47.22 R1**

C = 53.84 Sq. Ft.
 F = 0.00 Sq. Ft.
 CV = 12.7 Cu. Yd.
 FV = 0.0 Cu. Yd.

28 + 58.04 R1

C = 60.40 Sq. Ft.
 F = 0.00 Sq. Ft.
 CV = 0.0 Cu. Yd.
 FV = 0.0 Cu. Yd.

28 + 52.04 R1

DATE PLOTTED = 3/17/2023 3:22:28 PM
 PEN TABLE = N:\S\Standard\CAD\Bentley\standards\IL\DOT\Plotting\CGI+PDF+PDF+plc+g
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USER NAME = Roadway	DESIGNED - DTJ	REVISED -
	DRAWN - DTJ	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED - JMV	REVISED -
PLOT DATE = 3/17/2023	DATE - 1/16/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
 CROSS SECTIONS**

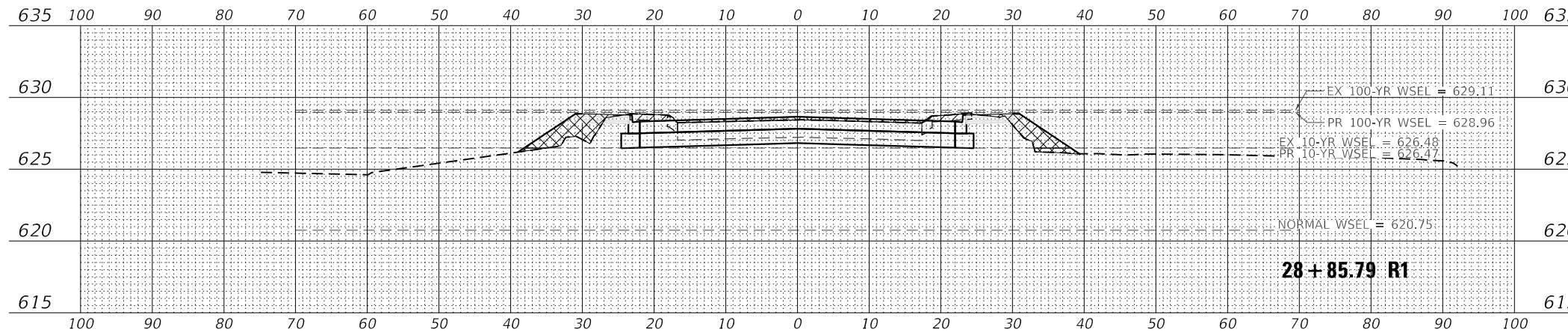
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	99
CONTRACT NO.			61J48	
ILLINOIS FED. AID PROJECT				

BRIDGE OMISSION
28 + 85.79 TO 29 + 25.29

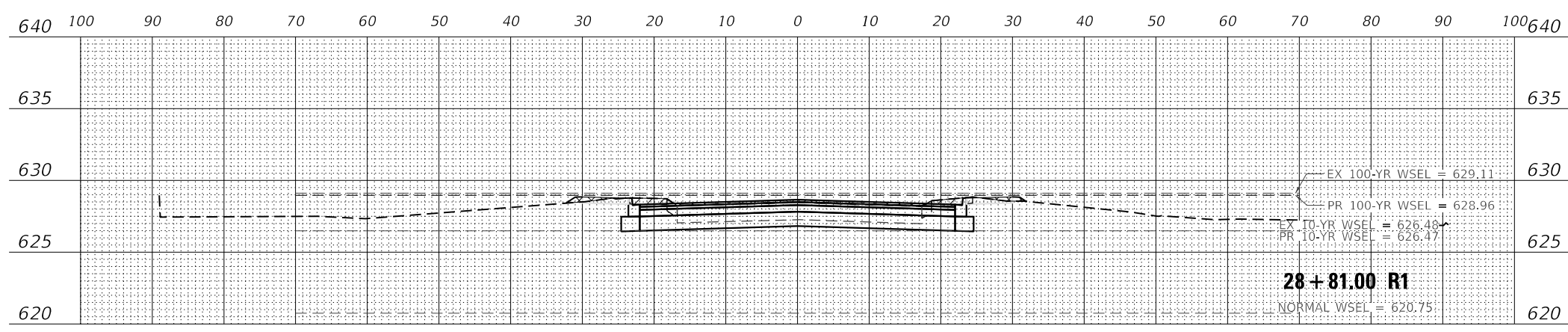
LEGEND

-  CUT AREA
-  FILL AREA



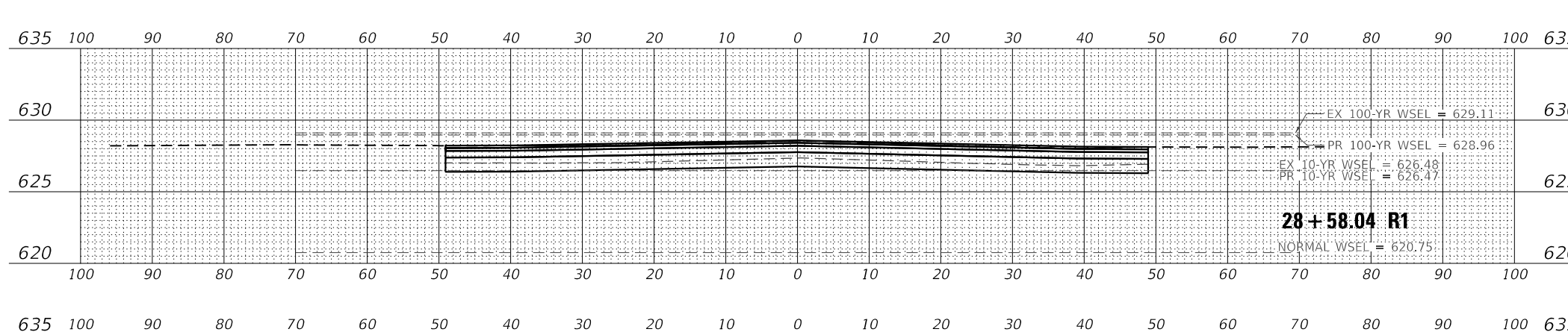
0-10 YR
 CUT = 0.0 SQ. FT.
 FILL = 2.3 SQ. FT.

10-100 YR
 CUT = 4.9 SQ. FT.
 FILL = 29.5 SQ. FT.



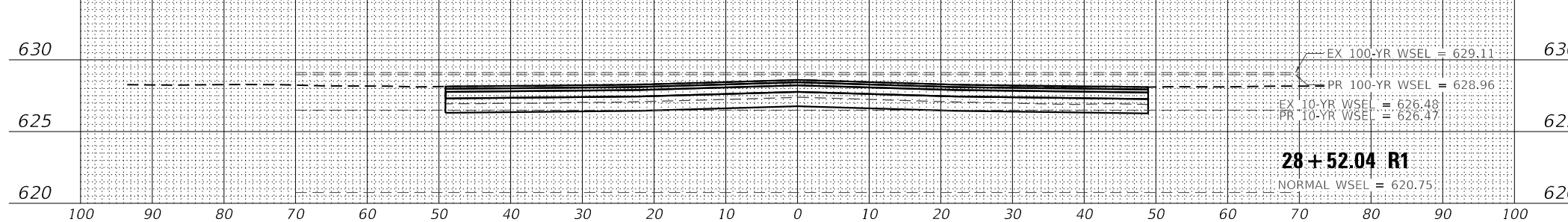
0-10 YR
 CUT = 0.0 SQ. FT.
 FILL = 0.0 SQ. FT.

10-100 YR
 CUT = 3.9 SQ. FT.
 FILL = 8.4 SQ. FT.



0-10 YR
 CUT = 0.0 SQ. FT.
 FILL = 0.0 SQ. FT.

10-100 YR
 CUT = 0.0 SQ. FT.
 FILL = 7.4 SQ. FT.



0-10 YR
 CUT = 0.0 SQ. FT.
 FILL = 0.0 SQ. FT.

10-100 YR
 CUT = 0.0 SQ. FT.
 FILL = 0.0 SQ. FT.

DATE PLOTTED = 2/10/2023 11:44:59 AM
 PEN TABLE = N:\Standards\CAD\Standards\Standards\IL-001\Plotting\CGI-PDF-plot.ctb
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 FILE NAME = N:\VPROJ\0002\16-00131-00-BR\16-00131-00-01\16-00131-00-01-01.dwg





USER NAME = Roadway	DESIGNED - JS	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED - ARH	REVISED -
PLOT DATE = 2/10/2023	DATE - 1/16/2023	REVISED -

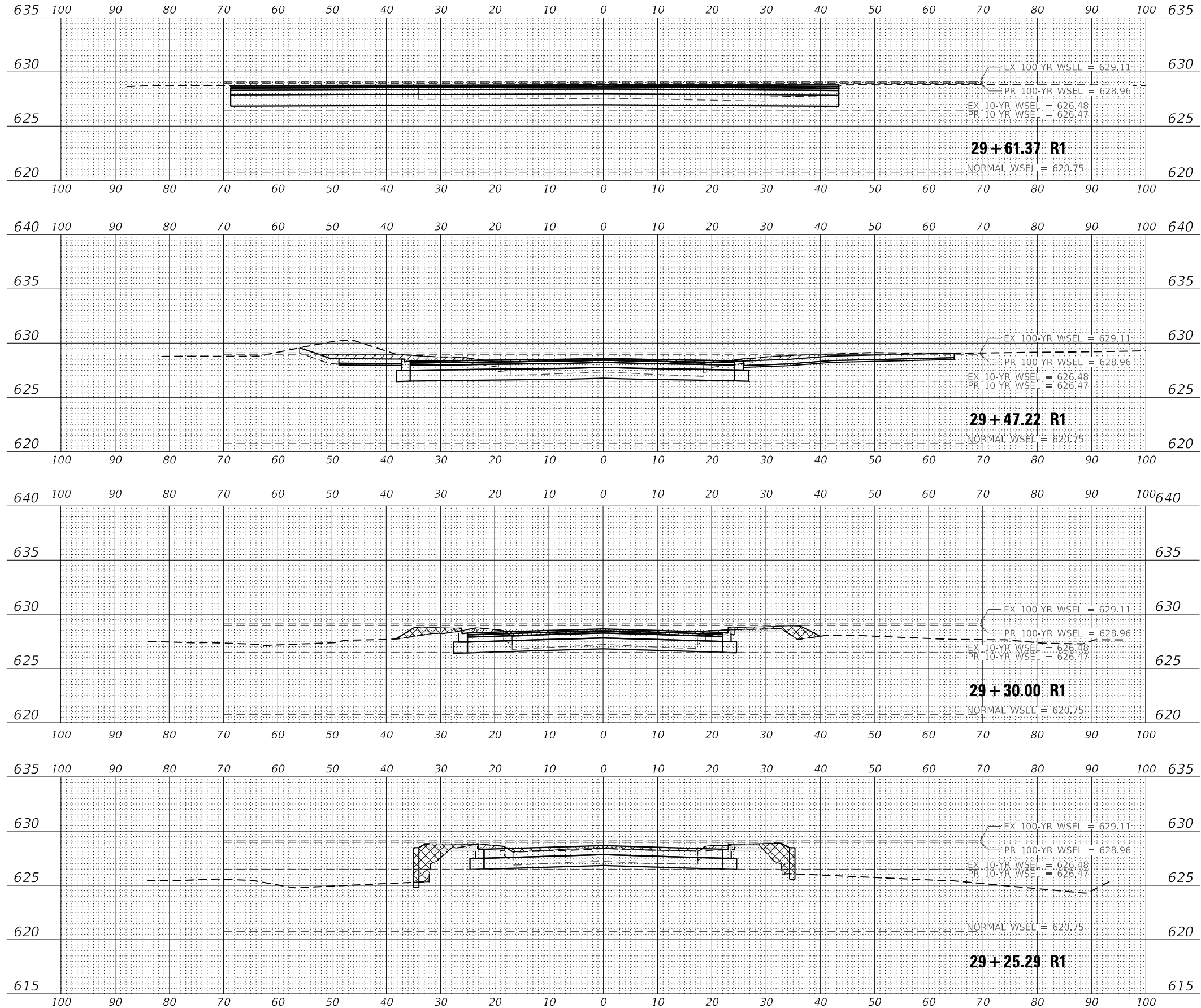
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
FLOODPLAIN COMPENSATORY STORAGE CROSS SECTIONS
 SCALE: 1" = 10' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 2406	SECTION 16-00131-00-BR	COUNTY COOK	TOTAL SHEETS 102	SHEET NO. 101
CONTRACT NO. 61J48				ILLINOIS FED. AID PROJECT

LEGEND

-  CUT AREA
-  FILL AREA



0-10 YR
CUT = 0.0 SQ. FT.
FILL = 0.0 SQ. FT.

10-100 YR
CUT = 0.0 SQ. FT.
FILL = 7.6 SQ. FT.

0-10 YR
CUT = 0.0 SQ. FT.
FILL = 0.0 SQ. FT.

10-100 YR
CUT = 16.8 SQ. FT.
FILL = 6.3 SQ. FT.

0-10 YR
CUT = 0.0 SQ. FT.
FILL = 0.0 SQ. FT.

10-100 YR
CUT = 3.2 SQ. FT.
FILL = 24.6 SQ. FT.

0-10 YR
CUT = 0.0 SQ. FT.
FILL = 4.5 SQ. FT.

10-100 YR
CUT = 3.3 SQ. FT.
FILL = 32.1 SQ. FT.

BRIDGE OMISSION
28 + 85.79 TO 29 + 25.29

DATE PLOTTED = 2/10/2023 11:44:59 AM
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USER NAME = Roadway	DESIGNED - JS	REVISED -
	DRAWN - JS	REVISED -
PLOT SCALE = 20.0000' / 1"	CHECKED - ARH	REVISED -
PLOT DATE = 2/10/2023	DATE - 1/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BROADWAY AVE OVER SILVER CREEK BRIDGE REPLACEMENT
FLOODPLAIN COMPENSATORY STORAGE CROSS SECTIONS

SCALE: 1" = 10' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2406	16-00131-00-BR	COOK	102	102
CONTRACT NO. 61J48				
ILLINOIS FED. AID PROJECT				