FOR INDEX OF SHEETS, SEE SHEET NO. 2

03-07-2025 LETTING ITEM 018

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	1
	ILLINOIS	CONTRACT NO. 62P43		

* 178 + 7 = 185 TOTAL SHEETS

LEAVITT STREET
FUNCTIONAL CLASSIFICATION
LOCAL STREET
2014 ADT = 1,300
TRUCKS = 3.0%
DESIGN SPEED = 30 MPH
POSTED SPEED = 30 MPH

I–290
FUNCTIONAL CLASSIFICATION
INTERSTATE
2022 ADT = 183,330
TRUCKS = 3.8%
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS
8725 W. HIGGINS RD, SUITE 600
CHICAGO, ILLINOIS 60631 :: (773) 775-4009

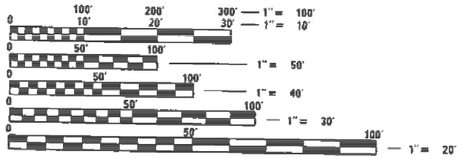
gonzalez

DESIGN FIRM
REGISTRATION NUMBER

184004564-0014

CONSULTING ENGINEERS
1401 BRANDING AVENUE, SUITE 365
DOWNERS GROVE, ILLINOIS 60515 :: (312) 621-8777

PROJECT LOCATED IN THE CITY OF CHICAGO



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.

DIGGER
1-312-744-7000

PROJECT MANAGER: PRAVEEN KAINI (847) 705–4237

CONTRACT NO. 62P43

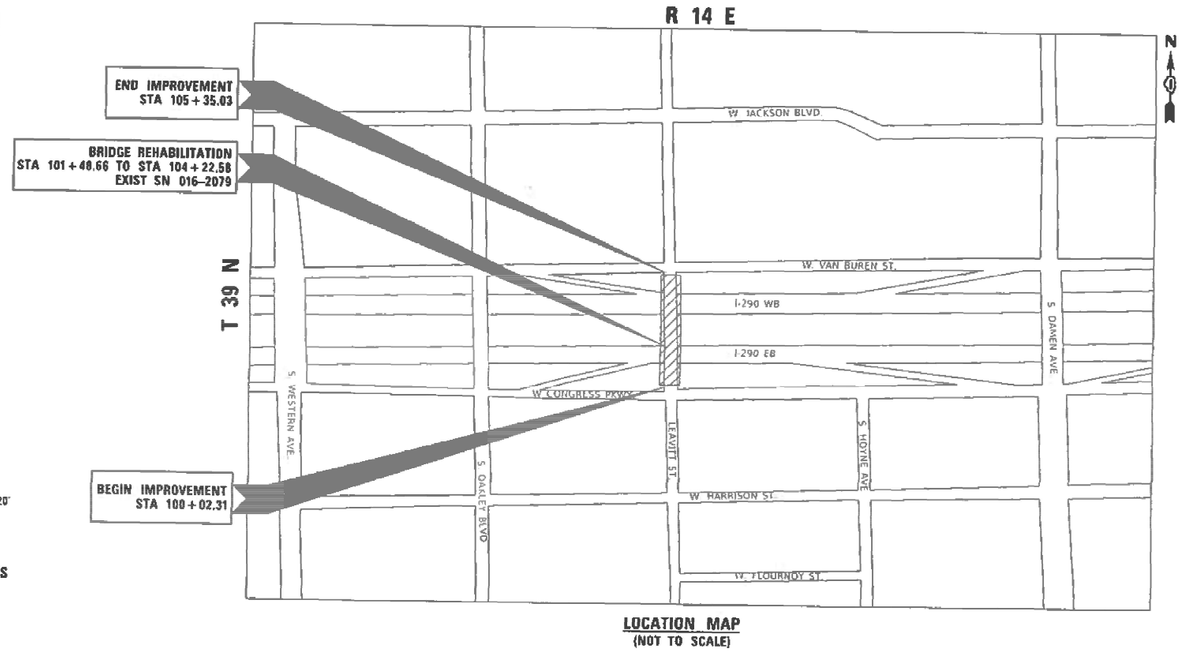
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAI 290 (INTERSTATE 290)
AT LEAVITT STREET
SECTION 2021–120–BR
PROJECT NHPP–CIH0(915)
BRIDGE REPLACEMENT AND ADA IMPROVEMENTS
COOK COUNTY
C–91–242–21

D-91-203-21

LOCATION OF SECTION INDICATED THUS: –



LOCATION MAP
(NOT TO SCALE)

GROSS LENGTH = 533 FT. = 0.10 MILE
NET LENGTH = 533 FT. = 0.10 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 6 20 24

REGIONAL ENGINEER

January 31 20 25

ENGINEER OF DESIGN AND ENVIRONMENT

January 31 20 25

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR PROFESSIONAL SEALS, SEE SHEET NO. 2

REV SEP

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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
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-06	DIAGONAL CURB RAMPS FOR SIDEWALKS
637006-05	CONCRETE BARRIER, DOUBLE FACE, 44 IN. (1120 MM) HEIGHT
664001-02	CHAIN LINK FENCE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER. FOR SPEEDS ≤ 40 MPH
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

IDOT DISTRICT ONE DETAILS

BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-47	CITY OF CHICAGO CATCH BASIN, INLET AND MANHOLE DETAILS
BD-58	CITY OF CHICAGO DETECTABLE WARNINGS
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	FREEWAY SINGLE AND MULTI LANE WEAVE
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-12	MULTI-LANE FREEWAY, PAVEMENT MARKING DETAILS
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAY/EXPRESSWAYS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-24	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS
TC-28	RAILROAD CROSSING REPAIR DETOUR SIGNING

COMMITMENTS:

ADJACENT I-290 OVERHEAD BRIDGES SHALL NOT BE CLOSED/DETOURED CONCURRENTLY DURING CONSTRUCTION.

STATE OF ILLINOIS
BRETT W. SAUTER
081-006844
LICENSED STRUCTURAL ENGINEER

DATE: 12/03/2024
SEAL EXPIRES: 11/30/2026
APPLIES TO SHEETS: 94 - 140
165 - 168

DUANE O'LAUGHLIN
062-252501
LICENSED PROFESSIONAL ENGINEER OF
ILLINOIS

DATE: 12/03/2024
SEAL EXPIRES: 11/30/2025
APPLIES TO SHEETS: 23 - 24
32 - 39
169

JOSEPH M. VONDRA
062-055846
LICENSED PROFESSIONAL ENGINEER OF
ILLINOIS

DATE: 12/03/2024
SEAL EXPIRES: 11/30/2025
APPLIES TO SHEETS: 44 - 93

PATRICK ARTHUR MCCLUSKEY
062-062896
LICENSED PROFESSIONAL ENGINEER OF
ILLINOIS

DATE: 12/03/2024
SEAL EXPIRES: 11/30/2025
APPLIES TO SHEETS: 1 - 22
27 - 31
40 - 43
141 - 164
170 - 178

gonzalez GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014	USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX AND STANDARDS
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	PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -		SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	2
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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MODEL: Default

GENERAL NOTES

1. EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

2. EXISTING HYDRANTS TO REMAIN, BE PROTECTED AND VISIBLE DURING CONSTRUCTION.

3. EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE FIELD TILES, UNDERGROUND AND SURFACE UTILITIES AS OUTLINED IN ARTICLE 107.37 OF THE STANDARD SPECIFICATIONS, EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY FIELD TILE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.

5. 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.

6. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO THIS CONSTRUCTION.

7. ALL CONSTRUCTION MATERIALS WITHIN THE CITY 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.

8. THE CONTRACTOR SHALL PROVIDE THE ENGINEER A LIST OF MATERIALS USED AND IDENTIFY THEIR ASSOCIATED IDOT CERTIFICATION, SHALL PROVIDE THE ENGINEER WITH A COPY OF ALL MATERIAL TESTING COMPANY RESULTS, SHALL SIGN AND PROVIDE THE ENGINEER ON A WEEKLY BASIS WEEKLY FIELD REPORTS UTILIZING THE APPROPRIATE IDOT FORM, AND SHALL SUBMIT TO THE ENGINEER A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

9. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE PRESERVATION OF EXISTING TREES IS OF UTMOST IMPORTANCE TO CHICAGO. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.

10. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. SEVERITY OF THE DAMAGE WILL BE DETERMINED BY THE ENGINEER.

11. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT AND CONSTRUCTION MATERIALS WITHIN THE FOUR QUADRANTS OF THE BRIDGE AND ALL OTHER LANDSCAPED AREAS. ANY CONSTRUCTION DEBRIS ACCUMULATED WITHIN THE AFOREMENTIONED AREAS SHALL BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

12. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT ABDULLA ALI, AREA TRAFFIC ENGINEER, AT ABDULLA.ALI@ILLINOIS.GOV

13. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER

14. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK.

15. PAVEMENT PATCHING ALONG THE DETOUR ROUTE SHALL BE COMPLETED AT THE DIRECTION OF THE ENGINEER PRIOR TO PUTTING THE DETOUR INTO SERVICE. THIS WORK WILL BE PAID FOR AS CLASS C PAVEMENT PATCHING AND A NOMINAL QUANTITY HAS BEEN INCLUDED IN THE SUMMARY OF QUANTITIES.

16. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKEND OR HOLIDAYS.

17. THE CONTRACTOR SHALL CONTACT THE IDOT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR DISTRICT ONE CARLOS MUNOZ AT CARLOS.MUNOZ@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.

18. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEMS 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 THE 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.

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

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

21. NOTIFY THE DEPARTMENT OF WATER MANAGEMENT (DWM) SEWER EVALUATION SECTION AT 312-747-4680 OF ANY UNDOCUMENTED PUBLIC SEWERS IN THE R.O.W.

22. ANY ISSUES OR WORK NEEDED WHEN CROSSING OR ADJACENT TO ANY COMED ASSESTS PLEASE CONTACT ERIKA IRBY VIA EMAIL AT ERIKA.IRBY@EXELONCORP.COM AT LEAST SIX WEEKS PRIOR TO CONSTRUCTION START.

23. USE CAUTION WHEN DIGGING/TRENCHING/BORING NEAR AT&T CONDUIT IN WORK AREA. LOCATE, PROTECT, AND SUPPORT AS REQUIRED. HANG DIG AROUND AT&T FACILITIES. MAINTAIN MINIMUM 12" VERTICAL AND 3' HORIZONTAL CLEARANCE. REQUESTOR ASSUMES ALL LIABILITY FOR DAMAGES TO AT&T FACILITIES. IF IT IS DETERMINED THAT AT&T FACILITIES NEED TO BE ADJUSTED, IT IS CONTRACTOR'S RESPONSIBILITY TO CONTACT AT&T BEFORE PROCEEDING. RELOCATION OF AT&T FACILITIES ARE 100% BILLABLE TO REQUESTOR. A MINIMUM 60 DAYS PRIOR TO WORK COMMENCEMENT, REQUESTOR IS REQUIRED TO CONTACT LEGAL MANDATE ENGINEER.

24. PROJECT IS ABOVE THE CTA'S CONGRESS BLUE LINE BRANCH TRACK STRUCTURES CLOSE TO LEAVITT STREET. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR ANY TRACK STRUCTURES. THE CONTRACTOR SHALL PROTECT ALL CTA STRUCTURES FROM CONSTRUCTION DEBRIS. THE CONTRACTOR SHALL RESTORE ALL DAMAGED STRUCTURES AND UTILITIES TO THE SATISFACTION OF THE CTA. SEE THE FOLLOWING LOCATION FOR THE ADJACENT CONSTRUCTION MANUAL (ACM): HTTPS://WWW.TRANSITCHICAGO.COM/ASSETS/1/6/ADJACENT_CONSTRUCTION_MANUAL_MARCH_2022.PDF COORDINATE INSURANCE REQUIREMENTS WITH L. LINDA LEE, CPCU, ARM, AIC, AINS, CSM - CTA RISK COMPLIANCE - LAW DEPARTMENT, PHONE: (312) 681-2921, EMAIL: LLEE@TRANSITCHICAGO.COM. THIS WORK IS SUBJECT TO THE REQUIREMENTS ESTABLISHED IN THE CTA ADJACENT CONSTRUCTION MANUAL (ACM) AND "CTA REQUIREMENTS FOR CONTRACTORS WORKING ALONG THE RIGHT-OF-WAY (R.O.W.)" WHICH CAN BE FOUND HERE: HTTPS://WWW.TRANSITCHICAGO.COM/NEARBYCONSTRUCTION/. ABDIN CARRILLO, CONSTRUCTION PROJECT MANAGER III, CAPITAL CONSTRUCTION, PHONE: (312) 681-3913, REFERENCE OUC NUMBER: EFP-127268, RE: SAFETY, SECURITY, INSURANCE, FLAGGING SERVICES, ETC.

25. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

26. MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.

27. EXISTING VEGETATED AREAS (TREES, SHRUBS, VEGETATIVE BUFFERS, TURF AREAS, ETC.) WHERE DISTURBANCE IS NOT OCCURRING (INCLUDING AREAS OUTSIDE THE PROJECT LIMITS) SHALL NOT BE DISTURBED TO ENSURE THAT EXISTING VEGETATION IS PRESERVED HEALTHY TO MINIMIZE SOIL EROSION AND TO ELIMINATE SOIL COMPACTION. NO MATERIALS ARE TO BE STORED OR VEHICLES DRIVEN OR PARKED WITHIN THESE UNDISTURBED AREAS AT ANY TIME.

28. THE CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON IDOT PROPERTY WITHOUT WRITTEN CONSENT FROM IDOT AND THE ROADSIDE DEVELOPMENT UNIT.

29. TEMPORARY FENCE SHOULD BE ERECTED ALONG THE DRIPLINE OF THE TREES, SHRUBS, AND LANDSCAPED BEDS WITHIN THE LIMITS OF CONSTRUCTION DESIGNATED TO REMAIN TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOB SITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED, OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.

30. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, TO SCHEDULE WALKTHROUGH TO DETERMINE LOCATION OF THE TEMPORARY FENCE FOR TREE PROTECTION AND WHICH TREES MAY REQUIRE ROOT PRUNING.

31. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, TO SCHEDULE LAYOUT OF AREAS TO BE TREATED WITH HERBICIDE AT LEAST 7 DAYS PRIOR TO THE APPLICATION.

32. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL SECTIONS OF THE ILLINOIS CUSTOM SPRAY LAW, INCLUDING LICENSING. CONTRACTOR PERSONNEL APPLYING HERBICIDES SHALL HAVE A VALID PESTICIDE APPLICATOR LICENSE ISSUED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE. THE LICENSED PESTICIDE APPLICATOR SHALL SUBMIT THEIR CURRENT LICENSE TO THE ENGINEER. THE LICENSED PESTICIDE APPLICATOR SHALL BE QUALIFIED AT A MINIMUM IN RIGHT-OF-WAY AND AQUATICS. THE LICENSED APPLICATOR SHALL WORK ON-SITE.

33. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, TO SCHEDULE LAYOUT OF TREES AND VINES AT LEAST 7 DAYS PRIOR TO PLANTING.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
20101000	TEMPORARY FENCE	FOOT	360		360		
20200100	EARTH EXCAVATION	CU YD	195		195		
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	UNIT	18		18		
20400800	FURNISHED EXCAVATION	CU YD	195		195		
20800150	TRENCH BACKFILL	CU YD	90		90		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	114		114		
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1378		1378		
21101805	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	40		40		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	17		17		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	17		17		
25003210	INTERSEEDING, CLASS 2A	ACRE	2		2		
25200110	SODDING, SALT TOLERANT	SQ YD	1378		1378		
25200200	SUPPLEMENTAL WATERING	UNIT	105		105		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	29		29		
28000400	PERIMETER EROSION BARRIER	FOOT	492		492		
28000510	INLET FILTERS	EACH	25		25		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1378		1378		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	100		100		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	377		377		

* SPECIALTY ITEM

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DATE PLOTTED = 12/11/2024 2:33:10 PM
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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -
	DRAWN - CM	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	4
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

REV-SEP

				CONSTRUCTION CODE			
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
				BRIDGE	ROADWAY	TRAFFIC SIGNALS	HIGHWAY LIGHTING
CODE			TOTAL	0013	0004	0021	0021
NO.	ITEM	UNIT	QUANTITY	S.N.	URBAN	URBAN	URBAN
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	409		409		
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	227		227		
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	199		199		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	259		259		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	111		111		
42000060	WELDED WIRE REINFORCEMENT	SQ YD	120		120		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	120		120		
42101300	PROTECTIVE COAT	SQ YD	611		611		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	685		685		
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	2196		2196		
44000100	PAVEMENT REMOVAL	SQ YD	410		410		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	914		914		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	581		581		
44000600	SIDEWALK REMOVAL	SQ FT	1905		1905		

* SPECIALTY ITEM

				CONSTRUCTION CODE			
				90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
				BRIDGE	ROADWAY	TRAFFIC SIGNALS	HIGHWAY LIGHTING
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0013 S.N.	0004 URBAN	0021 URBAN	0021 URBAN
44001980	CONCRETE BARRIER REMOVAL	FOOT	188		188		
44201445	CLASS C PATCHES, TYPE II, 18 INCH	SQ YD	100		100		
44201447	CLASS C PATCHES, TYPE III, 18 INCH	SQ YD	100		100		
44201449	CLASS C PATCHES, TYPE IV, 18 INCH	SQ YD	100		100		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	3397		3397		
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1			
50102400	CONCRETE REMOVAL	CU YD	1246.9	1246.9			
50157300	PROTECTIVE SHIELD	SQ YD	1898	1898			
50200100	STRUCTURE EXCAVATION	CU YD	1455	1455			
50300225	CONCRETE STRUCTURES	CU YD	862.1	862.1			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	652.5	652.5			
50300260	BRIDGE DECK GROOVING	SQ YD	1411	1411			
50300300	PROTECTIVE COAT	SQ YD	2623	2623			
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1			

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
50500505	STUD SHEAR CONNECTORS	EACH	13216	13216			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	262390	262390			
50901739	BRIDGE FENCE RAILING, CURVED	FOOT	716	716			
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	6496	6496			
51202305	DRIVING PILES	FOOT	6264	6264			
* 51203200	TEST PILE METAL SHELLS	EACH	2	2			
* 51204650	PILE SHOES	EACH	116	116			
* 51500100	NAME PLATES	EACH	1	1			
52000110	PREFORMED JOINT STRIP SEAL	FOOT	126	126			
* 52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	24	24			
52100520	ANCHOR BOLTS, 1"	EACH	64	64			
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	8391	8391			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	195		195		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	754	754			

* SPECIALTY ITEM

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	7

CONTRACT NO. 62P43
ILLINOIS FED. AID PROJECT

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
58700300	CONCRETE SEALER	SQ FT	7214	7214			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	642	642			
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	292	292			
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	7		7		
60255500	MANHOLES TO BE ADJUSTED	EACH	3		3		
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	8		8		
60500050	REMOVING CATCH BASINS	EACH	10		10		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	192		192		
63700280	CONCRETE BARRIER, DOUBLE FACE, 44 INCH HEIGHT	FOOT	47		47		
63700805	CONCRETE BARRIER TRANSITION	FOOT	139		139		
63700900	CONCRETE BARRIER BASE	FOOT	185		185		
66400305	CHAIN LINK FENCE, 6'	FOOT	95		95		
66400905	CHAIN LINK GATES, 4' X 6' SINGLE	EACH	1		1		

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	675		675		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	3		3		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1		1		
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		1		
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	45		45		
	67100100	MOBILIZATION	L SUM	1		1		
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	1930		1930		
	70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	7092		7092		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,275		1,275		
	70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	114		114		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	675		675		
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3		3		
	70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	1		1		
*	72000300	SIGN PANEL - TYPE 3	SQ FT	419		419		

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
	73304000	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	123		123		
	73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	6		6		
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	343		343		
	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	21		21		
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	561		561		
*	78004240	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 8"	FOOT	1774		1774		
*	78004620	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 4"	FOOT	709		709		
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	18		18		
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1417		1417		
	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	233		233		
*	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	709		709		
*	78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1774		1774		
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1405		1405		
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1				1
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1				1
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	261				261

* SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	131				131
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	625				625
*	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	490			22	468
*	81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	1689			1195	494
*	81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	434				434
*	81100705	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	1528				1528
*	81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	1060				1060
*	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	585				585
*	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8				8
*	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	2				2
*	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	8				8
*	81300835	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 10"	EACH	8				8
*	81400100	HANDHOLE	EACH	1			1	
*	81400200	HEAVY-DUTY HANDHOLE	EACH	3			3	

* SPECIALTY ITEM

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	11

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

REV-SEP

					CONSTRUCTION CODE			
					90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
					BRIDGE	ROADWAY	TRAFFIC SIGNALS	HIGHWAY LIGHTING
	CODE			TOTAL	0013	0004	0021	0021
	NO.	ITEM	UNIT	QUANTITY	S.N.	URBAN	URBAN	URBAN
*								
*	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1496				1496
*	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2279				2279
*	81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	134			134	
*	81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	8417				8417
*	81702170	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	630				630
*	81702180	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	3150				3150
*	81702220	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	375				375
*	81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	2025				2025
*	82110025	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION C	EACH	8				8
*	82500370	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	1				1
*	83600345	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8 5/8" X 7'	EACH	1				1
*	84200804	REMOVAL OF POLE FOUNDATION	EACH	3			2	1
*	84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	4				4

* SPECIALTY ITEM

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	12

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

REV-SEP

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
*	84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1				1
*	87502710	TRAFFIC SIGNAL POST, ALUMINUM 17 FT.	EACH	1			1	
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	1			1	
*	87900200	DRILL EXISTING HANDHOLE	EACH	9				9
*	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4			4	
	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6			6	
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8			8	
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1	
*	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5368				5368
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1	
	89502380	REMOVE EXISTING HANDHOLE	EACH	4			2	2
*	X0325839	SIGNAL TIMING	L SUM	1			1	
*	X0326326	CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	1960				1960
	X0326806	WASHOUT BASIN	L SUM	1		1		

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	13

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
*	X0327752	CONDUIT RISER, GALVANIZED STEEL	EACH	4				4
*	X1400014	CIRCUIT BREAKER IN STREET LIGHT CONTROLLER	EACH	1			1	
	X1400402	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA, FIBER OPTIC	EACH	1				1
*	X1400441	TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED, 480 VOLT, 200 AMP	EACH	1				1
	X2010516	SELECTIVE CLEARING	UNIT	10		10		
	X2800500	INLET PROTECTION (SPECIAL)	EACH	2		2		
	X2503110	MOWING (SPECIAL)	ACRE	6		6		
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	180		180		
	X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	416	416			
	X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	3500	3500			
*	X6020105	MANHOLE, ELECTRIC, 3' X 4' X 4', WITH 24" FRAME AND LID	EACH	3			1	2
	X6022505	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	4		4		
*	X6028004	ELECTRIC MANHOLE TO BE ADJUSTED	EACH	2				2
	X6060045	COMBINATION CONCRETE CURB AND GUTTER, TYPE B V-.12 (CDOT)	FOOT	419		419		
	X6640300	CHAIN LINK FENCE REMOVAL	FOOT	109		109		
	X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	18		18		
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1		

* SPECIALTY ITEM

					CONSTRUCTION CODE			
					90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
					BRIDGE	ROADWAY	TRAFFIC SIGNALS	HIGHWAY LIGHTING
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0013 S.N.	0004 URBAN	0021 URBAN	0021 URBAN
	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1		1		
	X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	180		180		
*	X7240311	RELOCATE EXISTING SIGN PANEL (SPECIAL)	EACH	6	6			
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	90		90		
	X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	90		90		
*	X8040102	ELECTRIC SERVICE INSTALLATION (SPECIAL)	EACH	2				2
*	X8100863	INTERCEPT EXISTING CONDUIT	EACH	8				8
*	X8130108	JUNCTION BOX, POLE OR POST MOUNTED	EACH	6			6	
*	X8211009	TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	4				4
*	X8300100	LIGHT POLE, ALUMINUM, WITH MAST ARM, INSTALL ONLY	EACH	5				5
	X8301802	REMOVE TEMPORARY WOOD POLE	EACH	7				7

* SPECIALTY ITEM

gonzalez GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014	USER NAME = cmacek PLOT SCALE = 1.0000 ' / in. PLOT DATE = 12/11/2024	DESIGNED - CM DRAWN - CM CHECKED - PM DATE - 12/03/2024	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	15
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

REV-SEP

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	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
*	X8400104	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1				1
*	X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8				8
*	X8440120	REMOVE AND RE-ERECT EXISTING LIGHTING UNIT	EACH	5				5
*	X8440124	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	1				1
*	X8570232	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1			1	
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8			8	
*	X8774126	MAST ARM, STEEL, MONOTUBE 26 FT	EACH	1			1	
*	X8774135	MAST ARM, STEEL, MONOTUBE 35 FT	EACH	1			1	
*	X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	1			1	
*	X8891007	VIDEO VEHICLE DETECTION SYSTEM COMPLETE	EACH	1			1	
*	X8950075	REMOVE EXISTING LIGHTING CONTROLLER AND SALVAGE	EACH	1				1
*	XX008710	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 9 FEET	EACH	2			2	
*	XX008711	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 7 FEET	EACH	2			2	
*	XX008724	TRENCH AND BACKFILL WITH SCREENINGS	FOOT	1377				1377
*	XX009356	CONCRETE FOUNDATION, 20" DIAMETER	FOOT	5			5	

* SPECIALTY ITEM

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PRO. ENGINEER 184004564-0014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 13 OF 14 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	16

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

REV-SEP

					CONSTRUCTION CODE			
					90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE	90% FED 10% STATE
					BRIDGE	ROADWAY	TRAFFIC SIGNALS	HIGHWAY LIGHTING
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0013 S.N.	0004 URBAN	0021 URBAN	0021 URBAN
*	X8400104	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1				1
*	X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8				8
*	X8440120	REMOVE AND RE-ERECT EXISTING LIGHTING UNIT	EACH	5				5
*	X8440124	REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	1				1
*	X8570232	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET	EACH	1			1	
*	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8			8	
*	X8774126	MAST ARM, STEEL, MONOTUBE 26 FT	EACH	1			1	
*	X8774135	MAST ARM, STEEL, MONOTUBE 35 FT	EACH	1			1	
*	X8780105	CONCRETE FOUNDATIONS (SPECIAL)	EACH	1			1	
*	X8891007	VIDEO VEHICLE DETECTION SYSTEM COMPLETE	EACH	1			1	
*	X8950075	REMOVE EXISTING LIGHTING CONTROLLER AND SALVAGE	EACH	1				1
*	X8362249	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 9 FEET	EACH	2			2	
*	X8362247	CONCRETE FOUNDATION, 24" DIAMETER, 1 1/4" ANCHOR RODS, 15" BOLT CIRCLE, 7 FEET	EACH	2			2	
*	X2080251	TRENCH AND BACKFILL WITH SCREENINGS	FOOT	1377				1377
*	X8361220	CONCRETE FOUNDATION, 20" DIAMETER	FOOT	5			5	

* SPECIALTY ITEM

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SUMMARY OF QUANTITIES

SCALE: | SHEET 13 OF 14 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	16

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

REV SEP

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
*	X1400238	LUMINAIRE, LED, (SPECIAL)	EACH	6				6
*	Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	3				3
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	448	448			
	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	17	17			
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1		
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	88		88		
*	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18				18
	Z0036200	PAINT CURB	FOOT	9		9		
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1		
*	X8771112	STEEL MAST ARM ASSEMBLY 12 FT.	EACH	6				6
*	X8774120	MAST ARM, STEEL, MONOTUBE 20 FT.	EACH	1			1	
*	87301188	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 22C	FOOT	749			749	
*	87301293	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 6C	FOOT	295			295	
*	X8301805	REMOVE EMBEDDED POLE	EACH	2			2	
Ø	Z0076600	TRAINEES	HOUR	1000		1000		
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1000		1000		

Ø 0042
* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 14 OF 14 SHEETS | STA. | TO STA.

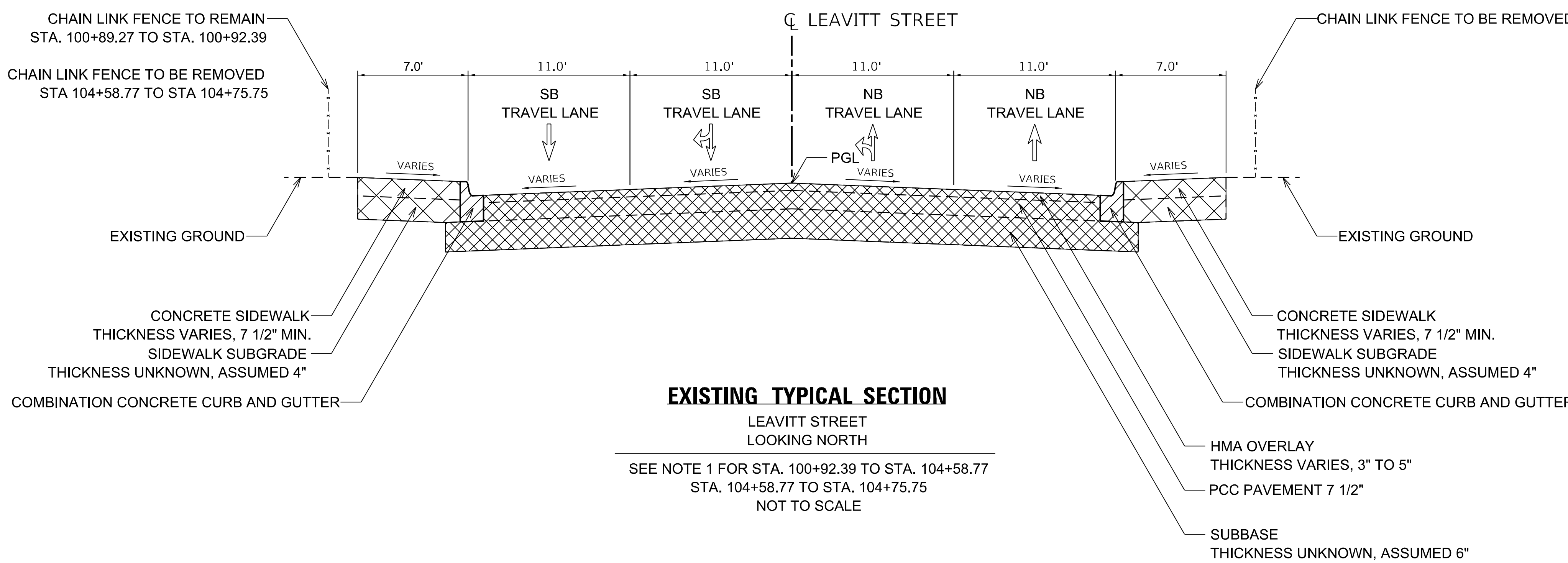
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	17

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

REV-SEP

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 90% FED 10% STATE BRIDGE 0013 S.N.	90% FED 10% STATE ROADWAY 0004 URBAN	90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	90% FED 10% STATE HIGHWAY LIGHTING 0021 URBAN
X8302162	TEMPORARY WOOD POLE, 60 FT., CLASS 4 (INSTALL ONLY)	EACH	3				3
X8302194	TEMPORARY WOOD POLE,90 FT.,CLASS 4, 15 FT. MAST ARM (INSTALL ONLY)	EACH	4				4
A2002016	TREE, AESCULUS GLABRA (OHIO BUCKEYE), 2" CALIPER, BALLED AND BURLAPPED	EACH	2		2		
A2004516	TREE, GINKGO BILOBA PRINCETON SENTRY (PRINCETON SENTRY GINKGO), 2" CALIPER, BALLED AND BURLAPPED	EACH	3		3		
A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	2		2		
A2005416	TREE, LIRIODENDRON TULIPIFERA (TULIP TREE), 2" CALIPER, BALLED AND BURLAPPED	EACH	4		4		
A2006816	TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	3		3		
B2001204	TREE, CERCIS CANADENSIS COLUMBUS (COLUMBUS EASTERN REDBUD), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	6		6		
D2002472	EVERGREEN, PINUS FLEXILIS VANDERWOLF'S PYRAMID (VANDERWOLF'S PYRAMID LIMBER PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	26		26		
E20020G6	VINE - WISTERIA MACROSTACHYA BETTY MATHEWS (FIRST EDITIONS SUMMER CASCADE KENTUCKY WISTERIA), 2 - GALLON POT	EACH	4		4		
E20210G1	VINE - PARTHENOCISSUS QUINQUEFOLIA ENGELMANNII (ENGELMANNII VIRGINIA CREEPER), 1 - GALLON POT	EACH	80		80		
K0029629	WEED CONTROL, BROADLEAF IN TURN	POUND	2		2		
K0029632	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL	GALLON	2.5		2.5		
K0036120	MULCH PLACEMENT, 4"	SQ YD	1225		1225		
K1003660	MOWING CYCLES	EACH	15		15		
K1005863	TREE ROOT PRUNING	EACH	10		10		



EXISTING TYPICAL SECTION

LEAVITT STREET
LOOKING NORTH

SEE NOTE 1 FOR STA. 100+92.39 TO STA. 104+58.77
STA. 104+58.77 TO STA. 104+75.75
NOT TO SCALE

NOTES:

1. SEE STRUCTURAL PLANS FOR BRIDGE AND APPROACH SLABS BETWEEN STA. 100+92.39 TO STA. 104+58.77.
2. EXISTING HYDRANT TO REMAIN, BE PROTECTED AND VISIBLE DURING CONSTRUCTION.

LEGEND:

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

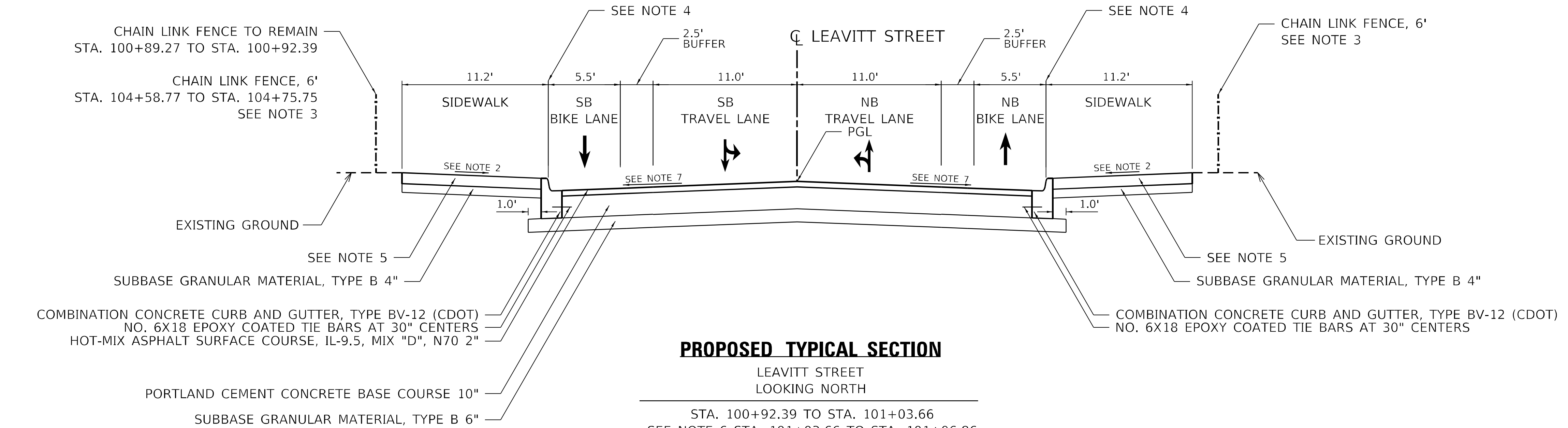
LEAVITT STREET
EXISTING TYPICAL SECTION

SCALE: | SHEET 1 OF 4 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	18

CONTRACT NO. 62P43

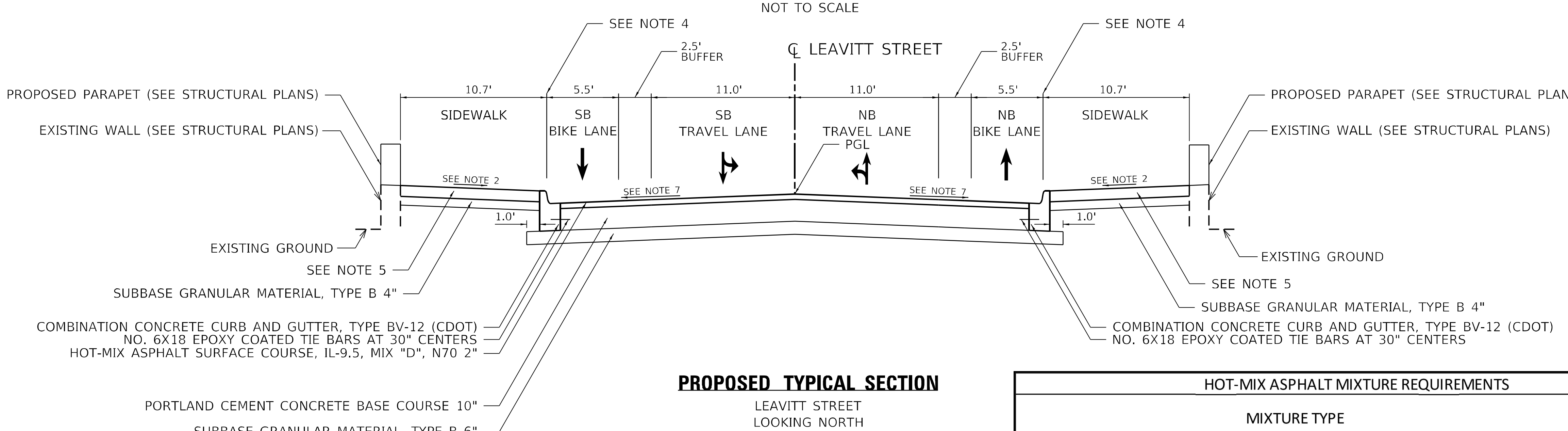
ILLINOIS | FED. AID PROJECT



PROPOSED TYPICAL SECTION

LEAVITT STREET
LOOKING NORTH

STA. 100+92.39 TO STA. 101+03.66
SEE NOTE 6 STA. 101+03.66 TO STA. 101+06.86
STA. 104+69.04 TO STA. 104+75.75
NOT TO SCALE



PROPOSED TYPICAL SECTION

LEAVITT STREET
LOOKING NORTH

SEE NOTE 6 FOR STA. 101+06.86 TO STA. 101+18.66
SEE NOTE 1 FOR STA. 101+18.66 TO STA. 104+52.58
SEE NOTE 6 FOR STA. 104+52.58 TO STA. 104+67.58
STA. 104+67.58 TO STA. 104+69.04
NOT TO SCALE

NOTES:

1. SEE STRUCTURAL PLANS FOR BRIDGE AND APPROACH SLABS BETWEEN STA. 101+18.66 TO STA. 104+52.58.
2. TYPICAL SIDEWALK CROSS SLOPE IS 1.7%. SIDEWALK CROSS SLOPE VARIES. SEE CROSS SECTIONS AND ADA DETAILS.
3. SEE ADA DETAILS FOR STATIONS AND OFFSETS OF CHAIN LINK FENCE. CHAIN LINK FENCE IS REQUIRED IN THE FOLLOWING LOCATIONS:

   NORTHWEST AND NORTHEAST QUADRANT OF LEAVITT STREET AND CONGRESS PARKWAY INTERSECTION.
   SOUTHWEST AND SOUTHEAST QUADRANT OF LEAVITT STREET AND VAN BUREN STREET INTERSECTION.
4. DIMENSIONED TO FACE OF CURB. TIE FACE OF CURB INTO FACE OF RAISED SIDEWALK ON APPROACH SLABS AT STA. 101+18.66 AND STA. 104+52.58. INSTALL PROTECTIVE COAT ON EXPOSED SURFACES OF CURB AND GUTTER.
5. SIDEWALK SHALL BE PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, EXCEPT THAT SIDEWALK RAMPS SHALL BE PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH. SEE ADA DETAILS FOR LIMITS OF SIDEWALK RAMPS. INSTALL PROTECTIVE COAT ON EXPOSED SURFACE OF SIDEWALK.
6. FOR STA 101+03.66 TO STA 101+18.66 AND STA 104+52.58 TO 104+67.58 THE PAVEMENT TO BE USED IS PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB. THE PAY ITEM NUMBER IS 42000080. CONSTRUCT IN ACCORDANCE WITH HIGHWAY STANDARD 420401-13.
7. FOR STA 100+92.39 TO STA 101+03.66 AND STA 104+67.58 TO STA 104+75.75 THE CROSS SLOPE SHALL BE 2.00%. FOR STA 101+03.66 TO STA 101+18.66 AND STA 104+52.58 TO STA 104+67.58 TRANSITION FROM 2.00% TO 1.50%. CROSS SLOPES NEAR SIDEWALK RAMPS SHALL BE AS SHOWN IN THE ADA DETAILS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndesign	QMP
PAVEMENT RECONSTRUCTION		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D" N70, 2"	4% @ 70 Gyr.	QC/QA
HMA SHOULDER 14"		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D" N70, 2"	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 Gyr.	QC/QA
QMP Designations: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PFP)		
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.		
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.		

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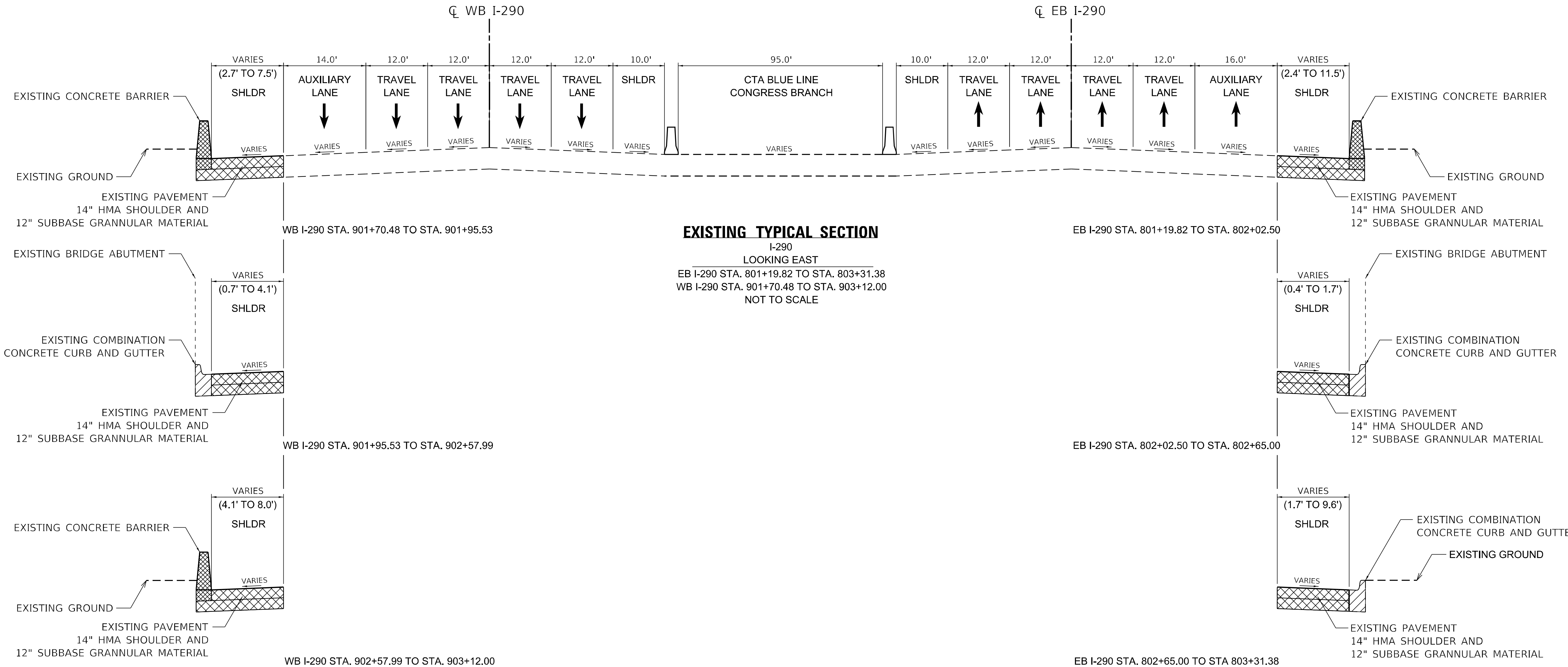
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEAVITT STREET
PROPOSED TYPICAL SECTIONS

SCALE: | SHEET 2 OF 4 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	19

CONTRACT NO. 62P43
ILLINOIS | FED. AID PROJECT



LEGEND:

- PAVEMENT REMOVAL
- CONCRETE BARRIER REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL

gonzalez GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014	USER NAME = cmacek	DESIGNED - CM	REVISED -
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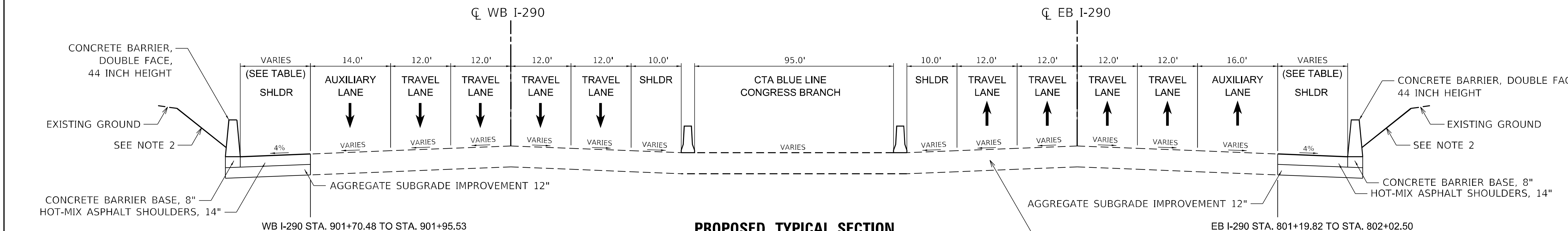
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I–290
EXISTING TYPICAL SECTION

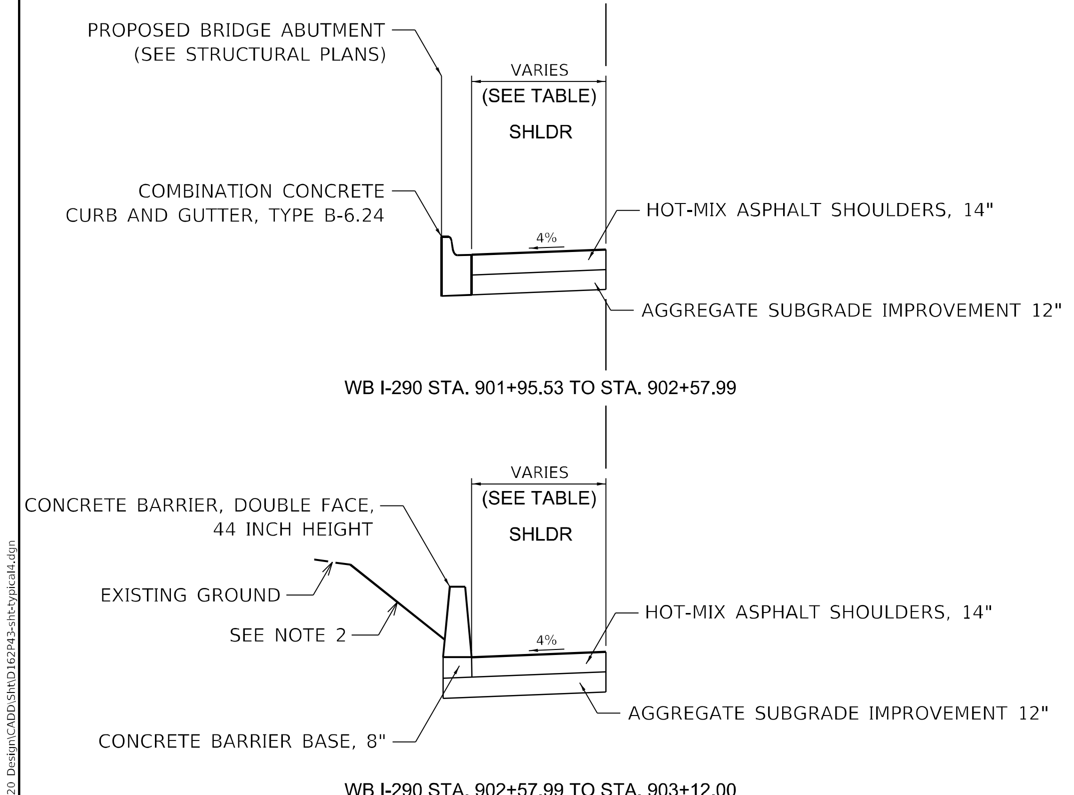
SCALE: | SHEET 3 OF 4 SHEETS | STA. TO STA.

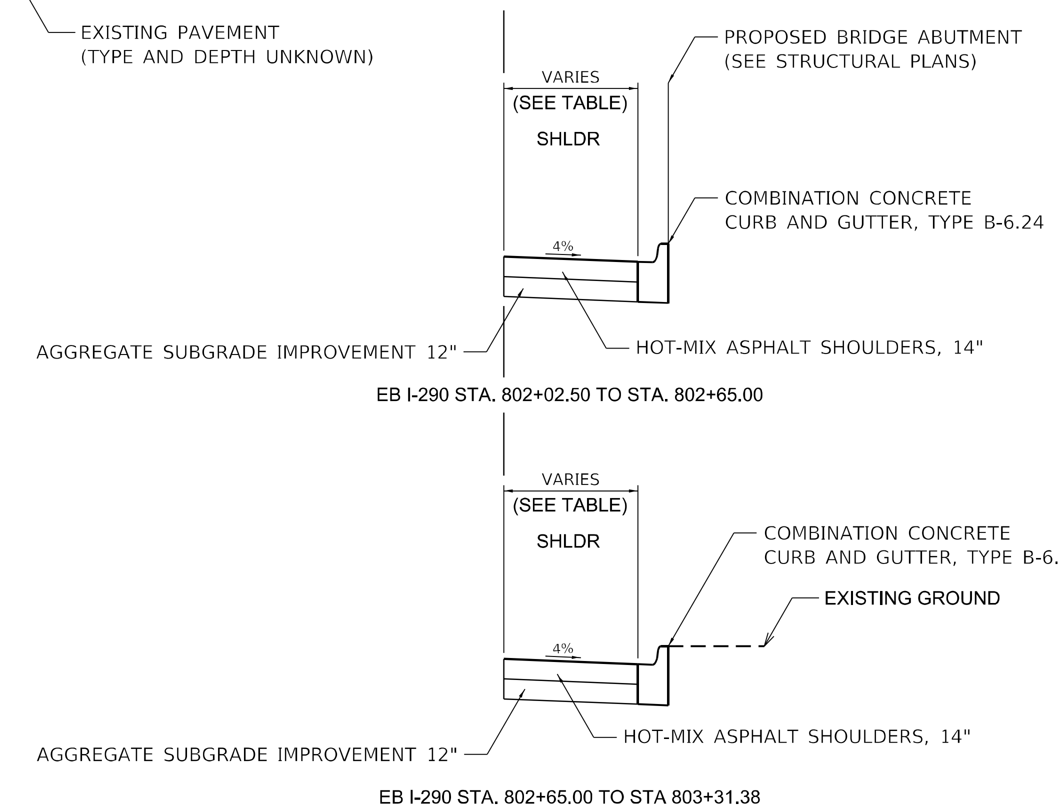
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	20
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION

I-290
LOOKING EAST
EB I-290 STA. 801+19.82 TO STA. 803+31.38
WB I-290 STA. 901+70.48 TO STA. 903+12.00
NOT TO SCALE





SHOULDER WIDTHS

EB I-290

START STATION	SHOULDER WIDTH (FT)	END STATION	SHOULDER WIDTH (FT)
801+19.82	7.5	801+51.76	11.5
801+51.76	11.5	802+02.50	13.4' (TO EDGE OF SHOULDER/FACE OF BARRIER) 11.4 (TO EDGE OF SHOULDER/BEGINNING OF GUTTER)
802+02.50	11.4	802+65.00	10.7
802+65.00	10.7	803+21.04	9.7
803+21.38	9.7	803+31.38	9.6

WB I-290

START STATION	SHOULDER WIDTH (FT)	END STATION	SHOULDER WIDTH (FT)
901+70.48	8.1	901+87.11	7.2
901+87.11	7.2	901+95.53	6.5 (TO EDGE OF SHOULDER/FACE OF BARRIER) 4.5 (TO EDGE OF SHOULDER/BEGINNING OF GUTTER)
901+95.53	4.5	902+19.65	7.4
901+19.65	7.4	902+57.99	7.9 (TO EDGE OF SHOULDER/BEGINNING OF GUTTER) 9.9 (TO EDGE OF SHOULDER/FACE OF BARRIER)
902+57.99	9.9	903+12	8

NOTES:

1. PROPOSED SHOULDER PAVEMENT PAID AS HOT-MIX ASPHALT SHOULDERS, 14". SUBBASE PAID AS AGGREGATE SUBGRADE IMPROVEMENT 12"

2. PROPOSED SIDE SLOPE NO STEEPER THAN 3H:1V.
GRADE TOE OF EMBANKMENT TO DRAIN TO DRAINAGE STRUCTURES.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-290
PROPOSED TYPICAL SECTION

SCALE: | SHEET 4 OF 4 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	21

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

EARTHWORK SCHEDULE			
LOCATION	EARTH EXCAVATION	FURNISHED EXCAVATION	TOPSOIL FURNISH AND PLACE, 6"
	CU YD	CU YD	SQ YD
NORTH END	123	123	549
SOUTH END	72	72	829
TOTALS	195	195	1378

FENCE SCHEDULE			
LOCATION	CHAIN LINK FENCE REMOVAL	CHAIN LINK FENCE, 6'	CHAIN LINK GATES, 4' X 6' SINGLE
	FT	FT	EACH
VAN BUREN/ LEAVITT			
SW QUADRANT	10	10	
SE QUADRANT	9	9	
CONGRESS/LEAVITT			
NE QUADRANT	51	37	
NW QUADRANT	39	39	1
TOTALS	109	95	1

UTILITY STRUCTURES							
ALIGNMENT	STATION	OFFSET	LT/RT	FRAME AND LID TO BE ADJUSTED	EXISTING ELEVATION	PROPOSED ELEVATION	NOTES
				EACH			
LEAVITT ST.	100+24.99	28.32	LT	1	593.09	592.94	ADJUST AS DIRECTED BY THE ENGINEER
LEAVITT ST.	100+29.22	38.03	RT	1	593.25	593.22	ADJUST AS DIRECTED BY THE ENGINEER
LEAVITT ST.	100+34.47	37.88	LT	1	592.52	592.63	ADJUST AS DIRECTED BY THE ENGINEER
LEAVITT ST.	100+76.42	30.80	LT	1	593.69	595.55	ADJUST AS DIRECTED BY THE ENGINEER
LEAVITT ST.	100+78.64	29.26	RT	1	594.01	593.56	ADJUST AS DIRECTED BY THE ENGINEER
LEAVITT ST.	104+65.48	26.61	RT	1	594.60	594.35	ADJUST AS DIRECTED BY THE ENGINEER
LEAVITT ST.	105+22.27	30.79	LT	1	593.46	593.35	ADJUST AS DIRECTED BY THE ENGINEER
LEAVITT ST.	105+30.55	28.33	LT	1	593.36	593.22	ADJUST AS DIRECTED BY THE ENGINEER
TOTALS				8			

DRAINAGE REMOVALS				
ALIGNMENT	STATION	OFFSET	LT/RT	REMOVING CATCH BASINS
EB I-290	801+30.70	45.23	RT	X
EB I-290	801+93.03	49.21	RT	X
EB I-290	801+94.16	40.96	RT	X
EB I-290	802+85.68	41.27	RT	X
WB I-290	901+85.97	54.35	LT	X
WB I-290	902+68.72	51.32	LT	X
WB I-290	902+81.96	45.22	LT	X
LEAVITT ST.	100+76.69	21.20'	LT	X
LEAVITT ST.	100+82.69	21.06'	RT	X
LEAVITT ST.	104+72.93	20.61'	RT	X
TOTAL				10

DRAINAGE STRUCTURES											
STRUCTURE NO.	ALIGNMENT	STATION	OFFSET	LT/RT	EX RIM ELEV	PR RIM ELEV	INVERT ELEV	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	MANHOLES TO BE ADJUSTED	NOTE
S 101	LEAVITT ST.	100+74.84	18.88	LT	-	593.26	589.37 SE	X			
S 102	LEAVITT ST.	100+81.96	18.00	RT	-	593.62	584.07 NE	X			
S 103	LEAVITT ST.	104+74.10	20.06	RT	-	593.55	589.07 NW	X			
S 104	LEAVITT ST.	104+72.08	18.93	LT	-	594.15	591.39 NE	X			
S201	WB I-290	901+85.97	54.35	LT	-	578.97	576.88 S 574.68 SW		X		
S202	WB I-290	902+68.72	51.32	LT	-	579.06	575.72 S		X		
S203	EB I-290	801+92.59	55.26	RT	-	578.83	574.15 NW		X		
S204	WB I-290	902+81.96	49.15	LT	-	577.97	SE		X		INVERT ELEVATION AS DIRECTED BY THE ENGINEER
S205	EB I-290	801+30.70	52.63	RT	-	578.74	574.14 E		X		
S206	EB I-290	801+94.16	51.18	RT	-	578.12	574.12 NW		X		
S207	EB I-290	802+85.68	49.04	RT	-	577.74	574.01 NE		X		
	EB I-290	801+87.76	41.21	RT	578.65	578.58				X	ADJUST AS DIRECTED BY THE ENGINEER
	WB I-290	901+78.55	49.81	LT	578.40	578.41				X	ADJUST AS DIRECTED BY THE ENGINEER
	WB I-290	901+84.61	45.67	LT	578.47	578.51				X	ADJUST AS DIRECTED BY THE ENGINEER
TOTALS								4	7	3	

DRAINAGE PIPES						
PIPE NO.	FROM	TO	STORM SEWERS, CLASS A, TYPE 1	LENGTH (FT)	PIPE SLOPE %	TRENCH BACKFILL (CU YD)
P101	S102	EX SEWER	12"	29.4	1%	13
P102	S104	EX SEWER	12"	6.0	1%	2
P201	S201	EX SEWER	12"	8.9	1%	5
P202	EX SEWER	S201	12"	8.8	1%	2
P203	S204	EX SEWER	12"	8.0	1%	4
P204	S205	EX SEWER	12"	58.4	1%	31
P205	S203	EX SEWER	12"	14.9	1%	7
P206	S206	EX SEWER	12"	11.9	1%	5
P207	S207	EX SEWER	12"	48.3	1%	21
TOTALS				195		90

SITE BENCHMARKS

		ELEV
BM "1"	FOUND SQUARE CHIESELED AT WEST SIDE OF TRAFFIC SIGNAL FOUNATION AT SOUTH-EAST CORNER OF S LEAVITT ST AND W VAN BUREN ST	594.77
BM "A"	SET SQUARE BOX AT SOUTH-EAST CORNER OF TRAFFIC SIGNAL FOUNDATION AT NORTH-WEST CORNER OF S LEAVITT ST AND W JACKSON ST	595.03
BM "B"	SET SQUARE CUT AT SOUTH-WEST CORNER OF CONCRETE WALL FOUNDATION AT EAST SIDE OF S LEAVITT ST +/- 35' NORTH OF W CONGRESS PKWY	595.24
BM "C"	SET SQUARE W/CROSS AT SOUTH-WEST CORNER OF LIGHT POLE FOUNDATION AT NORTH-WEST CORNER OF S LEAVITT ST AND W HARRISON ST	592.97

PROJECT ALIGNMENT

S LEAVITT ST - PROPOSED ALIGNMENT

DESCRIPTION	STATION	NORTHING	EASTING
P.O.B.	100+00.00	1,897,639.00	1,161,810.64
P.O.E.	105+45.00	1,898,183.80	1,161,795.97

PROJECT ALIGNMENT

CONGRESS PKWY (WEST) - PROPOSED ALIGNMENT

DESCRIPTION	STATION	NORTHING	EASTING
P.O.B.	2000+00.00	1,897,691.56	1,161,509.31
P.O.E.	2003+00.00	1,897,688.84	1,161,809.30

PROJECT ALIGNMENT

W CONGRESS PKWY (EAST) - PROPOSED ALIGNMENT

DESCRIPTION	STATION	NORTHING	EASTING
P.O.B.	2003+00.00	1,897,691.40	1,161,809.23
P.O.E.	2072+00.00	1,897,896.08	1,168,706.19

PROJECT ALIGNMENT

W VAN BUREN ST- PROPOSED ALIGNMENT

DESCRIPTION	STATION	NORTHING	EASTING
P.O.B.	1000+00.00	1,898,121.24	
P.O.E.	1015+90.76	1,898,161.25	1,163,129.24

PROJECT COORDINATES

W VAN BUREN ST- PROPOSED ALIGNMENT

PT #	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
11	1000+23.94	148.53 RT	1,898,045.69	1,161,570.93	579.43	SET MAG NAIL IN SHOULDER OF I-290 WB; +/- 200' W OF LEAVITT
12	1000+30.03	76.32 RT	1,897,973.36	1,161,566.65	579.50	SET CROSS IN LEFT SHOULDER OF I-290 WB; +/- 200' W OF LEAVITT

PROJECT ALIGNMENT

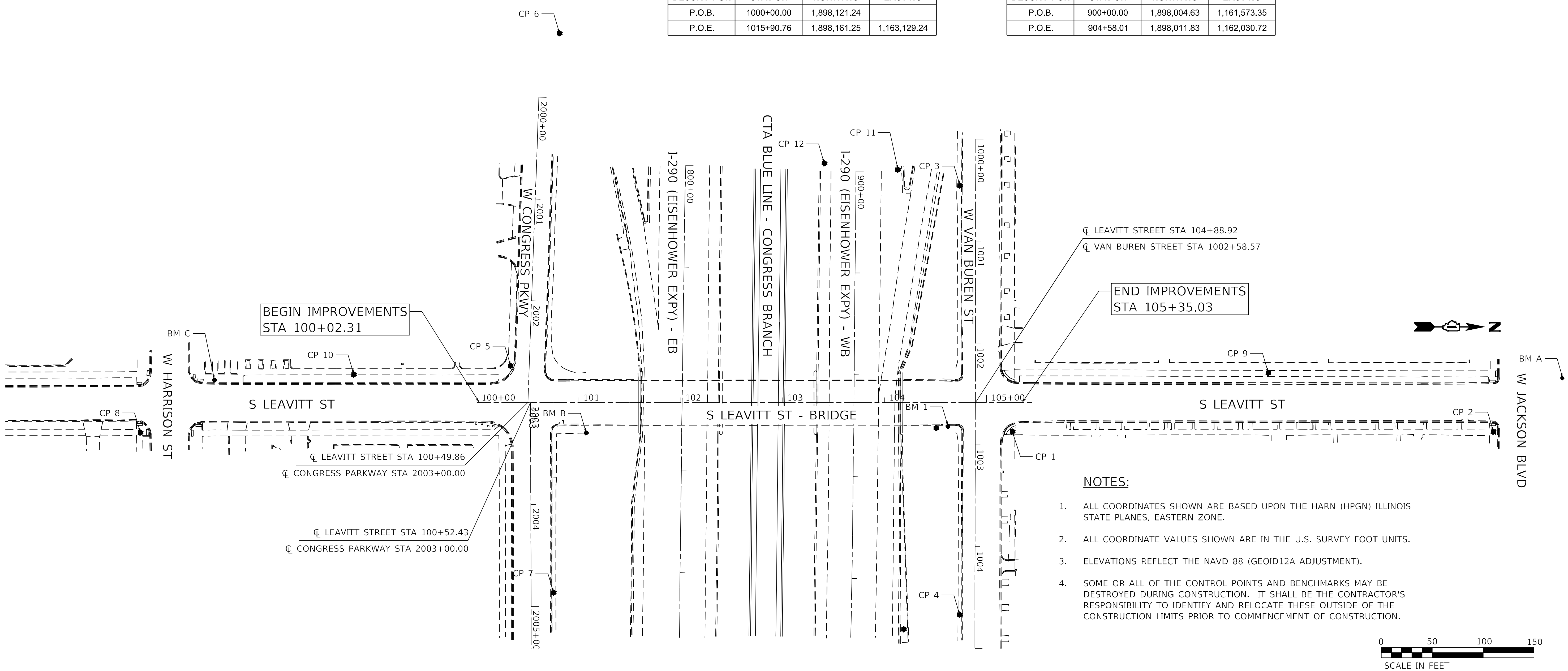
I-290 (EASTBOUND) - EXISTING BASELINE

DESCRIPTION	STATION	NORTHING	EASTING
P.O.B.	800+00.00	1,897,837.37	1,161,572.12
P.O.E.	804+63.88	1,897,843.76	1,168,035.90

PROJECT ALIGNMENT

I-290 (WESTBOUND) - EXISTING BASELINE

DESCRIPTION	STATION	NORTHING	EASTING
P.O.B.	900+00.00	1,898,004.63	1,161,573.35
P.O.E.	904+58.01	1,898,011.83	1,162,030.72

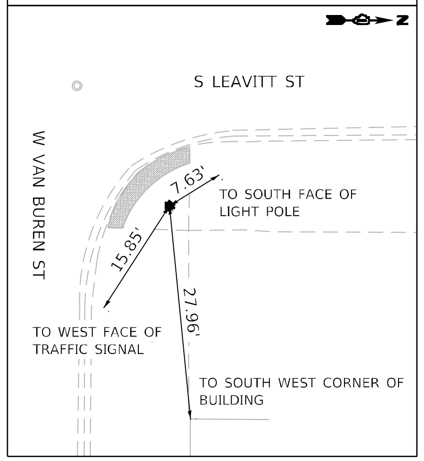


NOTES:

1. ALL COORDINATES SHOWN ARE BASED UPON THE HARN (HPGN) ILLINOIS STATE PLANES, EASTERN ZONE.
2. ALL COORDINATE VALUES SHOWN ARE IN THE U.S. SURVEY FOOT UNITS.
3. ELEVATIONS REFLECT THE NAVD 88 (GEOID12A ADJUSTMENT).
4. 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.

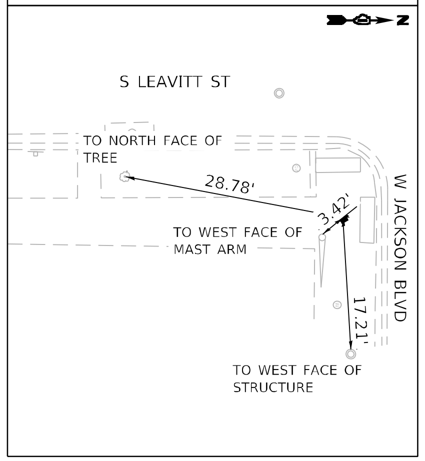
CP 1: SET CUT CROSS
SET CROSS AT NORTH-EAST CORNER OF
S LEAVITT ST AND W VAN BUREN ST

	STA: 105+25.30
N: 1,898,164.87	OFFSET: 28.31 RT
E: 1,161,824.80	ELEV: 593.32



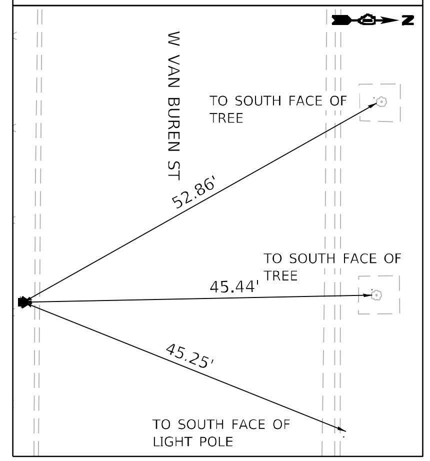
CP 2: SET CUT CROSS
FOUND CROSS AT SOUTH-EAST CORNER OF
S LEAVITT ST AND W JACKSON BLVD

	STA: 109+97.30
N: 1,898,636.70	OFFSET: 28.45 RT
E: 1,161,812.23	ELEV: 592.79



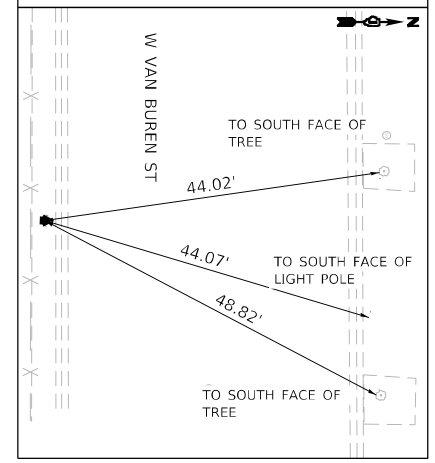
CP 3: SET CUT CROSS
SET MAG NAIL IN SOUTH ASPHALT SIDEWALK
OF W VAN BUREN ST +/- 185' WEST S LEAVITT;
1.5' SOUTH OF SOUTH BACK OF CURB

	STA: 1000+45.54
N: 1,898,106.99	OFFSET: 15.40 RT
E: 1,161,584.90	ELEV: 592.98



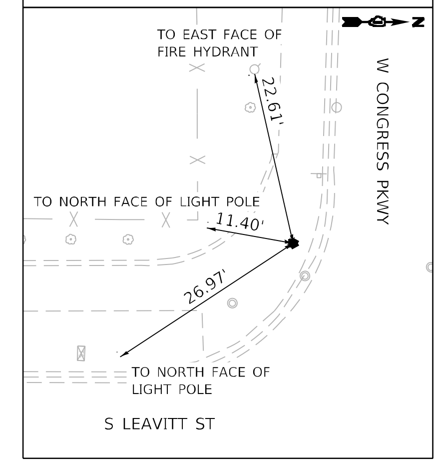
CP 4: SET CUT SROSS
SET MAG NAIL IN SOUTH ASPHALT SIDEWALK
OF W VAN BUREN ST +/- 170' EAST OF S LEAVITT;
1.5' SOUTH OF SOUTH CURB

	STA: 1004+66.63
N: 1,898,117.96	OFFSET: 15.02 RT
E: 1,162,005.85	ELEV: 593.14



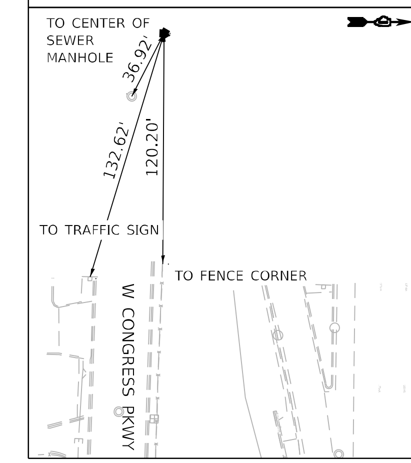
CP 5: SET CUT CROSS
SET CROSS AT SOUTH-WEST CORNER OF
S LEAVITT ST AND W CONGRESS PKWY;
2.5' SOUTH AND 6' WEST OF CURB

	STA: 100+32.88
N: 1,897,670.90	OFFSET: 36.15 LT
E: 1,161,773.61	ELEV: 593.00



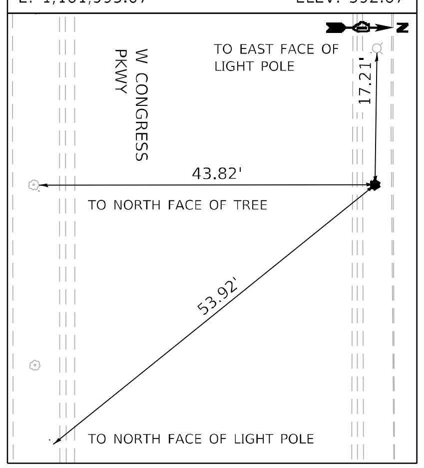
CP 6: SET CUT CROSS
SET MAG NAIL IN NORTH ASPHALT SIDEWALK
OF W CONGRESS PKWY +/- 320' WEST OF S LEAVITT;
1.5' NORTH OF NORTH CURB

	STA: 1999+36.63
N: 1,897,710.19	OFFSET: 18.05 LT
E: 1,161,446.11	ELEV: 592.62



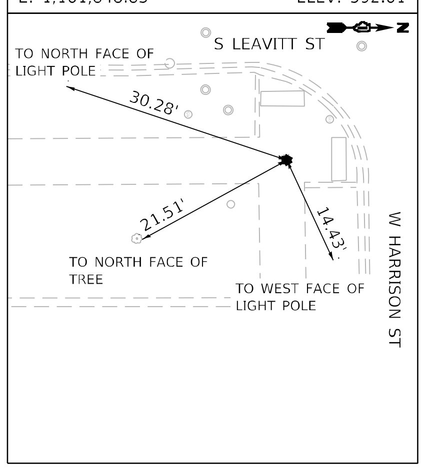
CP 7: SET CUT CROSS
SET MAG NAIL IN NORTH ASPHALT SIDEWALK
OF W CONGRESS PKWY +/- 160' EAST OF S LEAVITT;
1.5' NORTH OF NORTH CURB

	STA: 2004+86.58
N: 1,897,719.06	OFFSET: 22.13 LT
E: 1,161,995.07	ELEV: 592.67



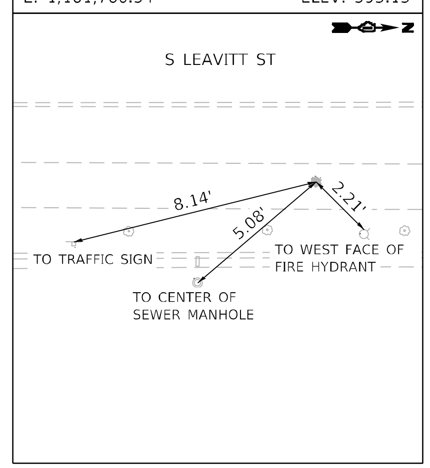
CP 8: SET CUT CROSS
SET CROSS AT SOUTH-EAST CORNER OF
S LEAVITT ST AND W HARRISON ST;
+/- 8' SOUTH OF CURB

	STA: 96+69.56
N: 1,897,309.42	OFFSET: 29.33 RT
E: 1,161,848.85	ELEV: 592.61



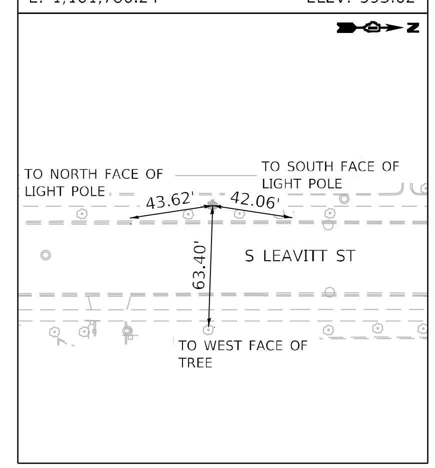
CP 9: SET CUT CROSS
SET CROSS AT WEST SIDEWALK OF
S LEAVITT ST +/- 260' NORTH OF
W. VAN BUREN ST

	STA: 107+76.40
N: 1,898,414.33	OFFSET: 29.20 LT
E: 1,161,760.54	ELEV: 593.13



CP 10: SET CUT CROSS
SET CROSS AT WEST SIDEWALK OF
S LEAVITT ST +/- 160' SOUTH OF
W. CONGRESS PKWY

	STA: 98+79.09
N: 1,897,517.39	OFFSET: 27.67 LT
E: 1,161,786.24	ELEV: 593.62



NOTES:

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CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = Roadway	DESIGNED - EPS	REVISED -	
	DRAWN - AEC	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - EPS	REVISED -	
PLOT DATE = 11/26/2024	DATE - 5/31/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEAVITT STREET
ALIGNMENT, TIES AND BENCHMARKS

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

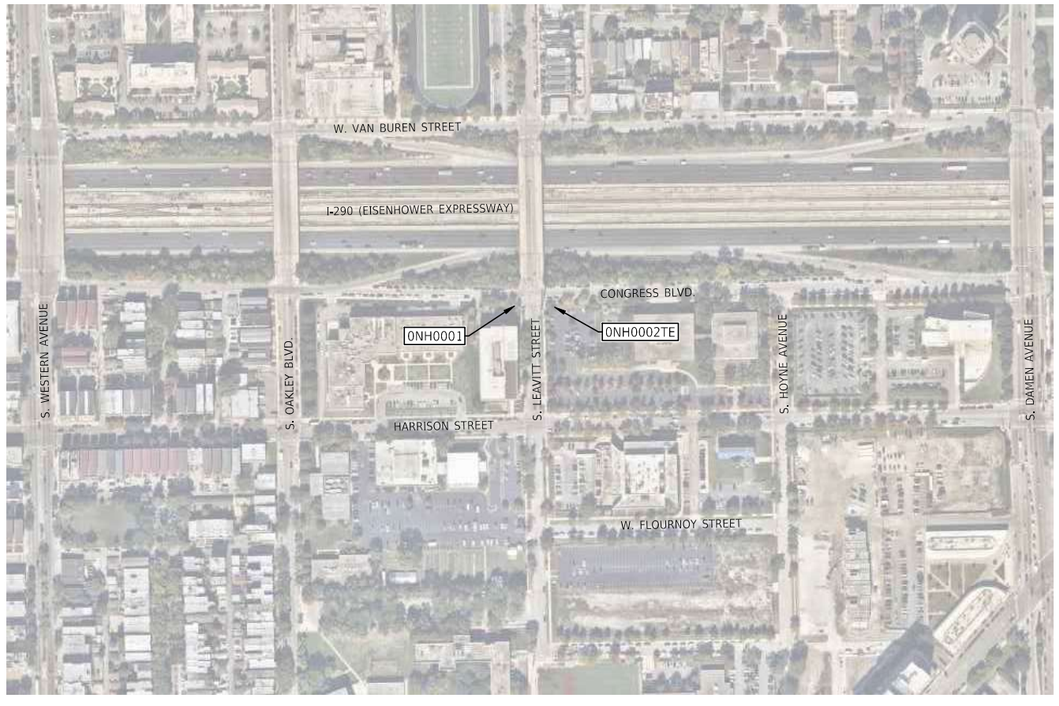
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	24
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

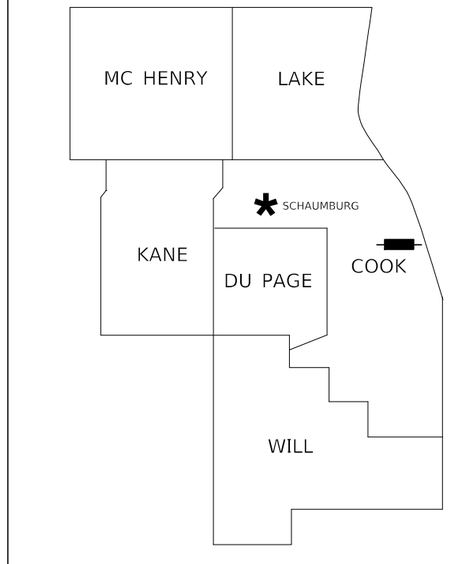
PLAT OF HIGHWAYS

ROUTE: I-290 BRIDGE
SECTION:
COUNTY: COOK
LIMITS: AT LEAVITT STREET
JOB NO.: R-90-010-21

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
0NH0001	AMERICAN NATIONAL RED CROSS	2	
0NH0002TE	ILLINOIS MEDICAL DISTRICT COMMISSION	2	



LOCATION MAP



PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

3/27/23 REVISED PINs & PARCEL NUMBER IN TABLE
3/23/23 REVISED PARCEL NUMBER FOR 0002TE
3/17/23 ISSUED PRELIM FOR REVIEW

PREPARED BY:
WT Group
Engineering • Design • Consulting

WT GROUP
Structural | Mechanical|Electrical|Plumbing
Civil | Land Survey | Telecommunication| Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
2675 Pratum Avenue | Hoffman Estates, IL 60192
P: 224.293.6333 | F: 224.293.6444
wtengineering.com
IL License No: 184.007570-0015 | Exp: 04.30.2024

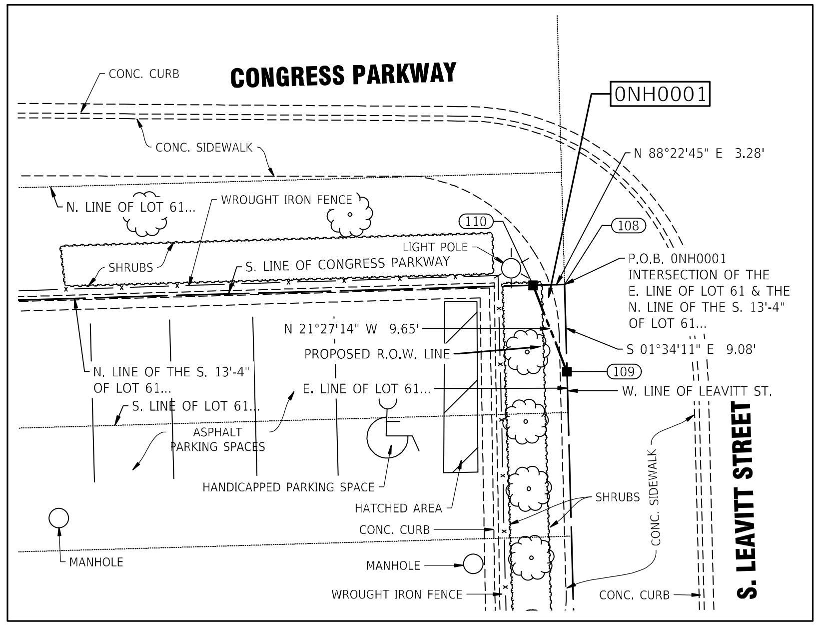
PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-290 BRIDGE

LIMITS: AT LEAVITT STREET — COUNTY: Cook
SECTION: — JOB NO.: R-90-010-21
STATION: 100+10.27 — TO STATION: 100+20.18
SCALE: — SHEET 1 OF 2

IDOT USE ONLY

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

PART OF THE NW 1/4 OF SECTION 18, T39N, R14E OF THE 3RD P.M., COOK COUNTY, ILLINOIS



0NH0001 DETAIL
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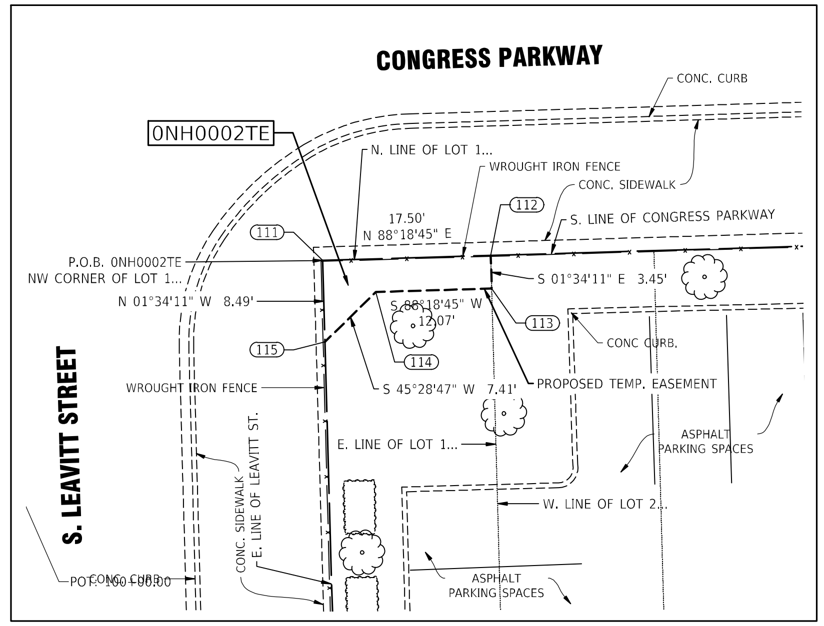

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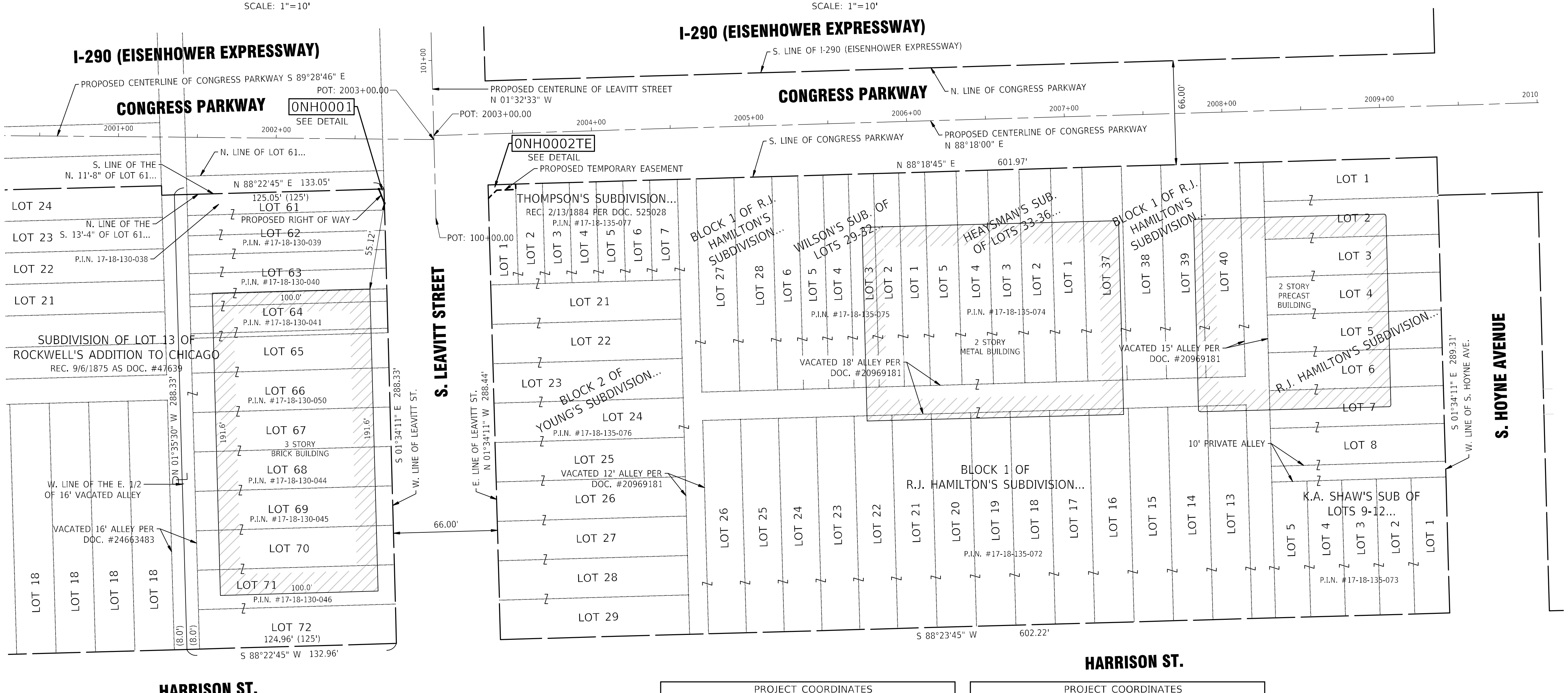

LEGEND

SECTION CORNER	QUARTER SECTION CORNER

- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING

GRAPHIC SCALE
FEET
0 40 80
SCALE: 1"=40

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- ● 5 / 8" REBAR SET
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

NOTES:

1. BASIS OF BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, ILLINOIS EAST (1201) ZONE NAD83 (2011). COORDINATES/DISTANCES SHOWN ARE "GRID". GRID DISTANCE / THE COMBINED SCALE FACTOR OF 0.999975900 = GROUND DISTANCE.

2. ALL STATIONING IS SHOWN IN FEET.

3. SHEET 1 IS THE COVER SHEET AND IS NOT RECORDED.

4. BUILDING TIES SHOWN ARE TO THE PROPOSED RIGHT OF WAY LINE, UNLESS THERE ARE NO TAKINGS ON SAID PROPERTY, IN WHICH CASE THEY ARE TO THE EXISTING RIGHT OF WAY LINE.

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

THIS IS TO DECLARE THAT WE, WT GROUP., HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN THE NORTHWEST 1/4 OF SECTION 18 IN TOWNSHIP 39 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

GIVEN UNDER OUR HAND AND SEAL THIS 27th DAY OF MARCH A.D. 2023
AT HOFFMAN ESTATES, ILLINOIS.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003556
LICENSE EXPIRATION DATE: 11/30/2024

PROFESSIONAL LAND SURVEYOR FRANJO I. MATICIC 035-003556 HOFFMAN ESTATES ILLINOIS STATE OF ILLINOIS

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

PARCEL NUMBER	TOTAL HOLDINGS ACRES/SQ. FT	PART TAKEN ACRES/SQ. FT.	AREA IN EXISTING R.O.W. ACRES/SQ. FT.	REMAINDER AREA ACRES/SQ. FT.	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
0NH0001	0.880 AC or 38,345 SQ. FT.	0.0003 AC or 15 SQ. FT.	N/A	0.880 AC or 38,330 SQ. FT.	N/A	N/A	17-18-130-038 thru 041 17-18-130-044 thru 046 17-18-130-050
0NH0002TE	3.993 AC or 173,930 SQ. FT.	N/A	N/A	3.993 AC or 173,930 SQ. FT.	0.002	74	17-18-135-077 17-18-135-072 thru 075

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)
COORDINATE TABLE - S. LEAVITT AVENUE

PNT #	STATION	OFFSET	NORTHING	EASTING
108	100+19.35	32.46 LT	1,897,657.4673	1,161,777.6708
109	100+10.27	32.45 LT	1,897,648.3896	1,161,777.9196
110	100+19.35	35.74 LT	1,897,657.3745	1,161,774.3887
111	100+20.14	33.54 RT	1,897,660.0296	1,161,843.6254
112	100+20.18	51.04 RT	1,897,660.5450	1,161,861.1178
113	100+16.73	51.04 RT	1,897,657.0963	1,161,861.2123
114	100+16.70	38.97 RT	1,897,656.7407	1,161,849.1443
115	100+11.65	33.55 RT	1,897,651.5422	1,161,843.8580

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)
COORDINATE TABLE - CONGRESS PARKWAY

PNT #	STATION	OFFSET	NORTHING	EASTING
108	2002+68.66	31.66 RT	1,897,657.4673	1,161,777.6708
109	2002+68.99	40.73 RT	1,897,648.3896	1,161,777.9196
110	2002+65.38	31.78 RT	1,897,657.3745	1,161,774.3887
111	2003+33.45	32.38 RT	1,897,660.0296	1,161,843.6254
112	2003+50.95	32.38 RT	1,897,660.5450	1,161,861.1178
113	2003+50.95	35.83 RT	1,897,657.0963	1,161,861.2123
114	2003+38.87	35.83 RT	1,897,656.7407	1,161,849.1443
115	2003+33.43	40.87 RT	1,897,651.5422	1,161,843.8580

3/27/23 REVISED PINs & PARCEL NUMBER IN TABLE
3/23/23 REVISED PARCEL NUMBER FOR 0002TE
3/17/23 ISSUED PRELIM FOR REVIEW

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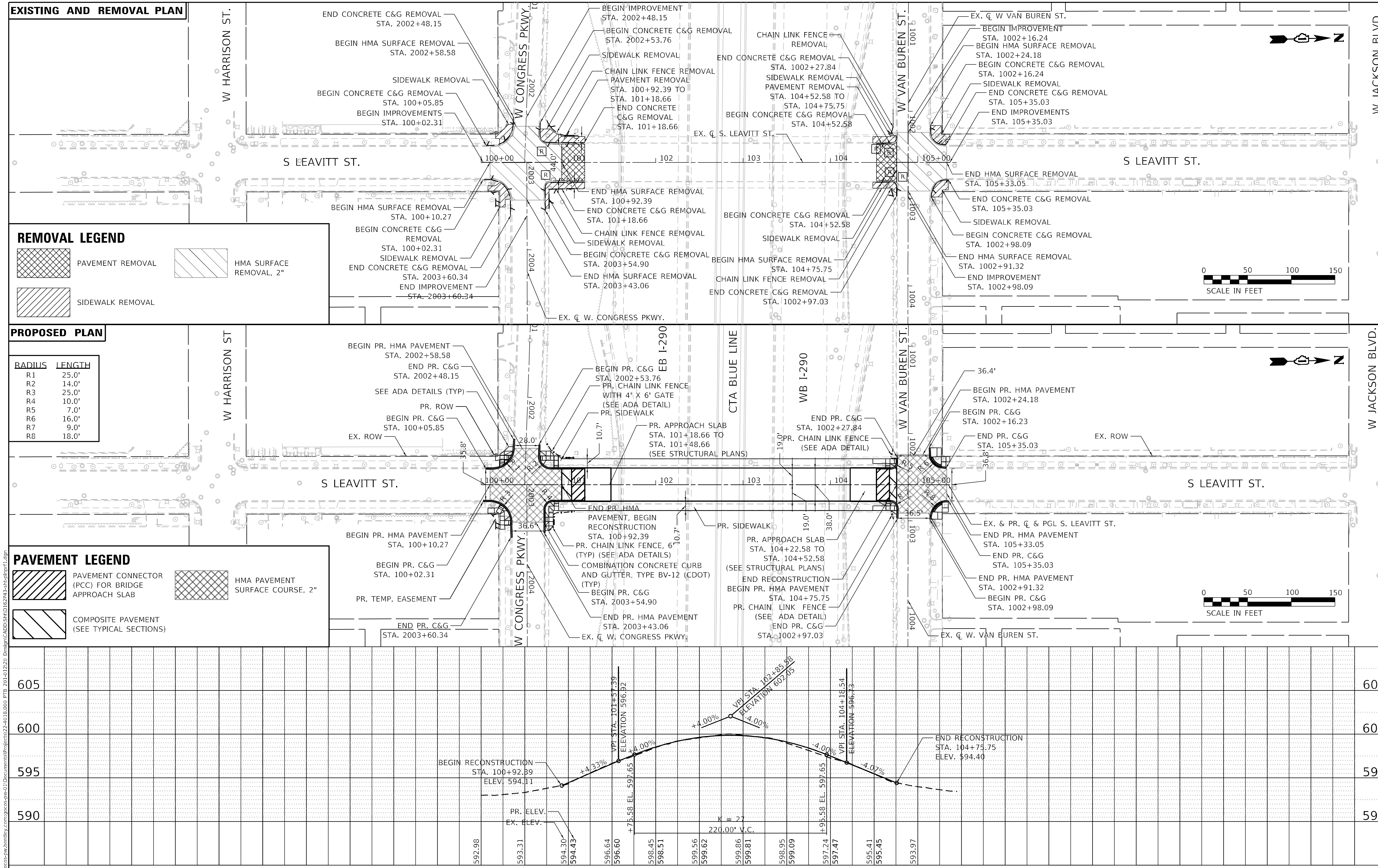
Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunication| Aquatic
Accessibility Consulting | Design & Program Management
Engineering with Precision, Pace & Passion.
2675 Pratum Avenue | Hoffman Estates, IL 60192
P: 224.293.6333 | F: 224.293.6444
wtengineering.com
IL License No: 184.007570-0015 | Exp: 04.30.2024

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-290 BRIDGES

LIMITS: AT LEAVITT STREET — COUNTY: Cook
SECTION: — JOB NO.: R-90-010-21
STATION: 100+10.27 — TO STATION: 100+20.18
SCALE: 1"=40' — SHEET 2 OF 2

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096


EXISTING AND REMOVAL PLAN
W HARRISON ST.
W CONGRESS PKWY.
W VAN BUREN ST.
W JACKSON BLVD.
S LEAVITT ST.
END CONCRETE C&G REMOVAL STA. 2002+48.15
BEGIN HMA SURFACE REMOVAL STA. 2002+58.58
SIDEWALK REMOVAL
BEGIN CONCRETE C&G REMOVAL STA. 100+05.85
BEGIN IMPROVEMENTS STA. 100+02.31
BEGIN IMPROVEMENT STA. 2002+48.15
BEGIN CONCRETE C&G REMOVAL STA. 2002+53.76
SIDEWALK REMOVAL
CHAIN LINK FENCE REMOVAL
PAVEMENT REMOVAL STA. 100+92.39 TO STA. 101+18.66
END CONCRETE C&G REMOVAL STA. 101+18.66
CHAIN LINK FENCE REMOVAL
END CONCRETE C&G REMOVAL STA. 1002+27.84
SIDEWALK REMOVAL
PAVEMENT REMOVAL STA. 104+52.58 TO STA. 104+75.75
BEGIN CONCRETE C&G REMOVAL STA. 104+52.58
EX. ℄ S. LEAVITT ST.
EX. ℄ W VAN BUREN ST.
BEGIN IMPROVEMENT STA. 1002+16.24
BEGIN HMA SURFACE REMOVAL STA. 1002+24.18
BEGIN CONCRETE C&G REMOVAL STA. 1002+16.24
SIDEWALK REMOVAL
END CONCRETE C&G REMOVAL STA. 105+35.03
END IMPROVEMENTS STA. 105+35.03
END HMA SURFACE REMOVAL STA. 105+33.05
END CONCRETE C&G REMOVAL STA. 105+35.03
SIDEWALK REMOVAL
BEGIN CONCRETE C&G REMOVAL STA. 1002+98.09
END HMA SURFACE REMOVAL STA. 1002+91.32
END IMPROVEMENT STA. 1002+98.09
BEGIN HMA SURFACE REMOVAL STA. 100+10.27
BEGIN CONCRETE C&G REMOVAL STA. 100+02.31
SIDEWALK REMOVAL
END CONCRETE C&G REMOVAL STA. 2003+60.34
END IMPROVEMENT STA. 2003+60.34
END HMA SURFACE REMOVAL STA. 100+92.39
END CONCRETE C&G REMOVAL STA. 101+18.66
CHAIN LINK FENCE REMOVAL
SIDEWALK REMOVAL
BEGIN CONCRETE C&G REMOVAL STA. 2003+54.90
END HMA SURFACE REMOVAL STA. 2003+43.06
EX. ℄ W. CONGRESS PKWY.
BEGIN CONCRETE C&G REMOVAL STA. 104+52.58
SIDEWALK REMOVAL
BEGIN HMA SURFACE REMOVAL STA. 104+75.75
CHAIN LINK FENCE REMOVAL
END CONCRETE C&G REMOVAL STA. 1002+97.03
REMOVAL LEGEND
PAVEMENT REMOVAL
HMA SURFACE REMOVAL, 2"
SIDEWALK REMOVAL
0 50 100 150
SCALE IN FEET
PROPOSED PLAN
RADIUS LENGTH
R1 25.0'
R2 14.0'
R3 25.0'
R4 10.0'
R5 7.0'
R6 16.0'
R7 9.0'
R8 18.0'
EB I-290
CTA BLUE LINE
WB I-290
BEGIN PR. HMA PAVEMENT STA. 2002+58.58
END PR. C&G STA. 2002+48.15
SEE ADA DETAILS (TYP)
PR. ROW
BEGIN PR. C&G STA. 100+05.85
EX. ROW
BEGIN PR. C&G STA. 2002+53.76
PR. CHAIN LINK FENCE WITH 4' X 6' GATE (SEE ADA DETAIL)
PR. SIDEWALK
PR. APPROACH SLAB STA. 101+18.66 TO STA. 101+48.66 (SEE STRUCTURAL PLANS)
END PR. C&G STA. 1002+27.84
PR. CHAIN LINK FENCE (SEE ADA DETAIL)
36.4'
BEGIN PR. HMA PAVEMENT STA. 1002+24.18
BEGIN PR. C&G STA. 1002+16.23
END PR. C&G STA. 105+35.03
EX. ROW
END PR. HMA PAVEMENT, BEGIN RECONSTRUCTION STA. 100+92.39
PR. SIDEWALK
PR. APPROACH SLAB STA. 104+22.58 TO STA. 104+52.58 (SEE STRUCTURAL PLANS)
EX. & PR. ℄ & PGL S. LEAVITT ST.
END PR. HMA PAVEMENT STA. 105+33.05
END PR. C&G STA. 105+35.03
BEGIN PR. HMA PAVEMENT STA. 100+10.27
BEGIN PR. C&G STA. 100+02.31
PR. TEMP. EASEMENT
END PR. C&G STA. 2003+60.34
PR. CHAIN LINK FENCE, 6' (TYP) (SEE ADA DETAILS)
COMBINATION CONCRETE CURB AND GUTTER, TYPE BV-12 (CDOT) (TYP)
BEGIN PR. C&G STA. 2003+54.90
END PR. HMA PAVEMENT STA. 2003+43.06
EX. ℄ W. CONGRESS PKWY.
END RECONSTRUCTION BEGIN PR. HMA PAVEMENT STA. 104+75.75
PR. CHAIN LINK FENCE (SEE ADA DETAIL)
END PR. C&G STA. 1002+97.03
END PR. HMA PAVEMENT STA. 1002+91.32
BEGIN PR. C&G STA. 1002+98.09
EX. ℄ W. VAN BUREN ST.
PAVEMENT LEGEND
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
HMA PAVEMENT SURFACE COURSE, 2"
COMPOSITE PAVEMENT (SEE TYPICAL SECTIONS)
605
600
595
590
BEGIN RECONSTRUCTION STA. 100+92.39 ELEV. 594.11
VPI STA. 101+57.39 ELEVATION 596.92
VPI STA. 102+85.88 ELEVATION 602.05
VPI STA. 104+18.54 ELEVATION 596.73
END RECONSTRUCTION STA. 104+75.75 ELEV. 594.40
+4.33%
+4.00%
-4.00%
-4.07%
+75.58 EL. 597.65
+95.58 EL. 597.65
K = 27
220.00' V.C.
PR. ELEV.
EX. ELEV.
100+00
101+00
102+00
103+00
104+00
105+00

gonzalez GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014	USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - CM	REVISED -	
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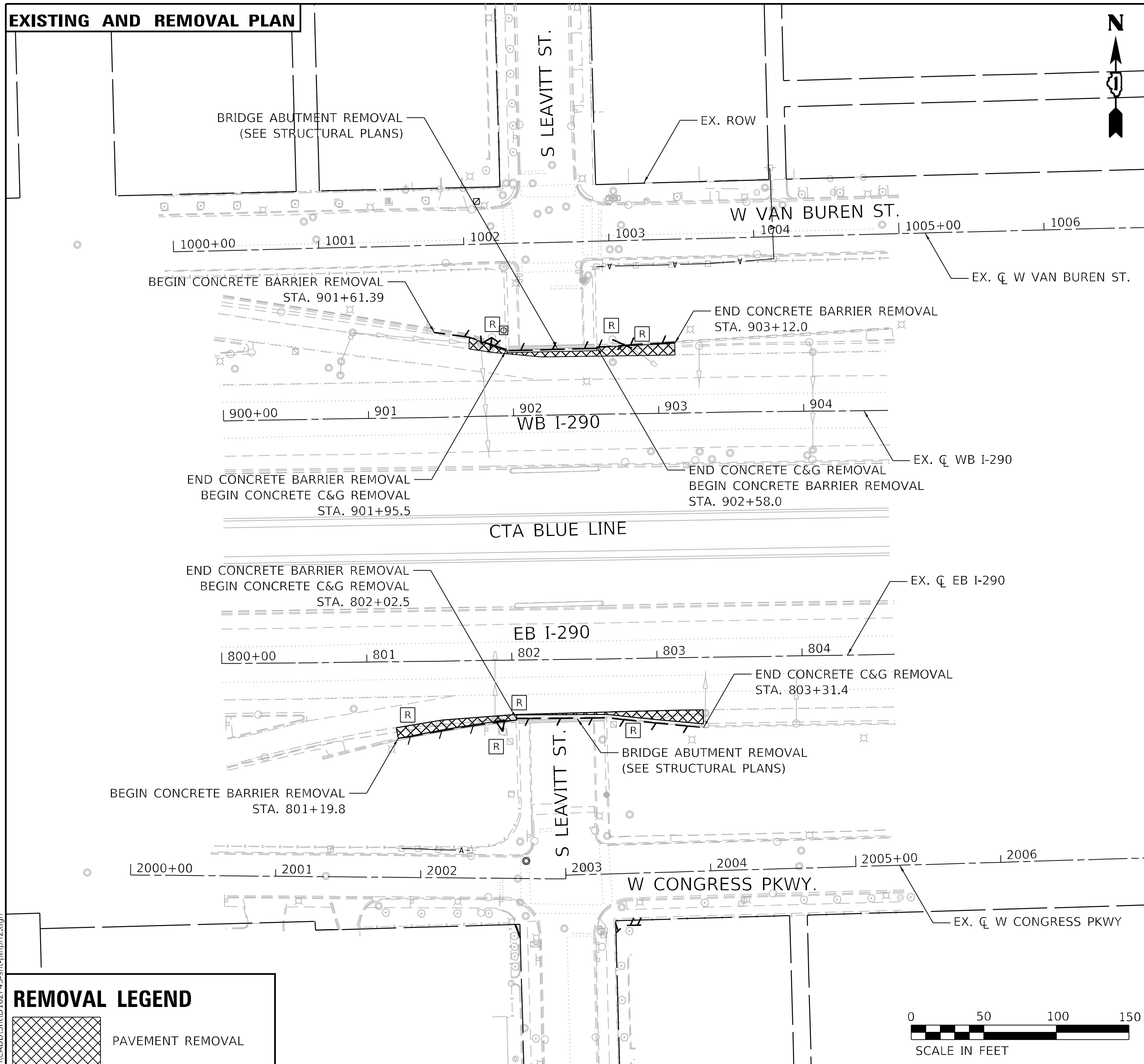
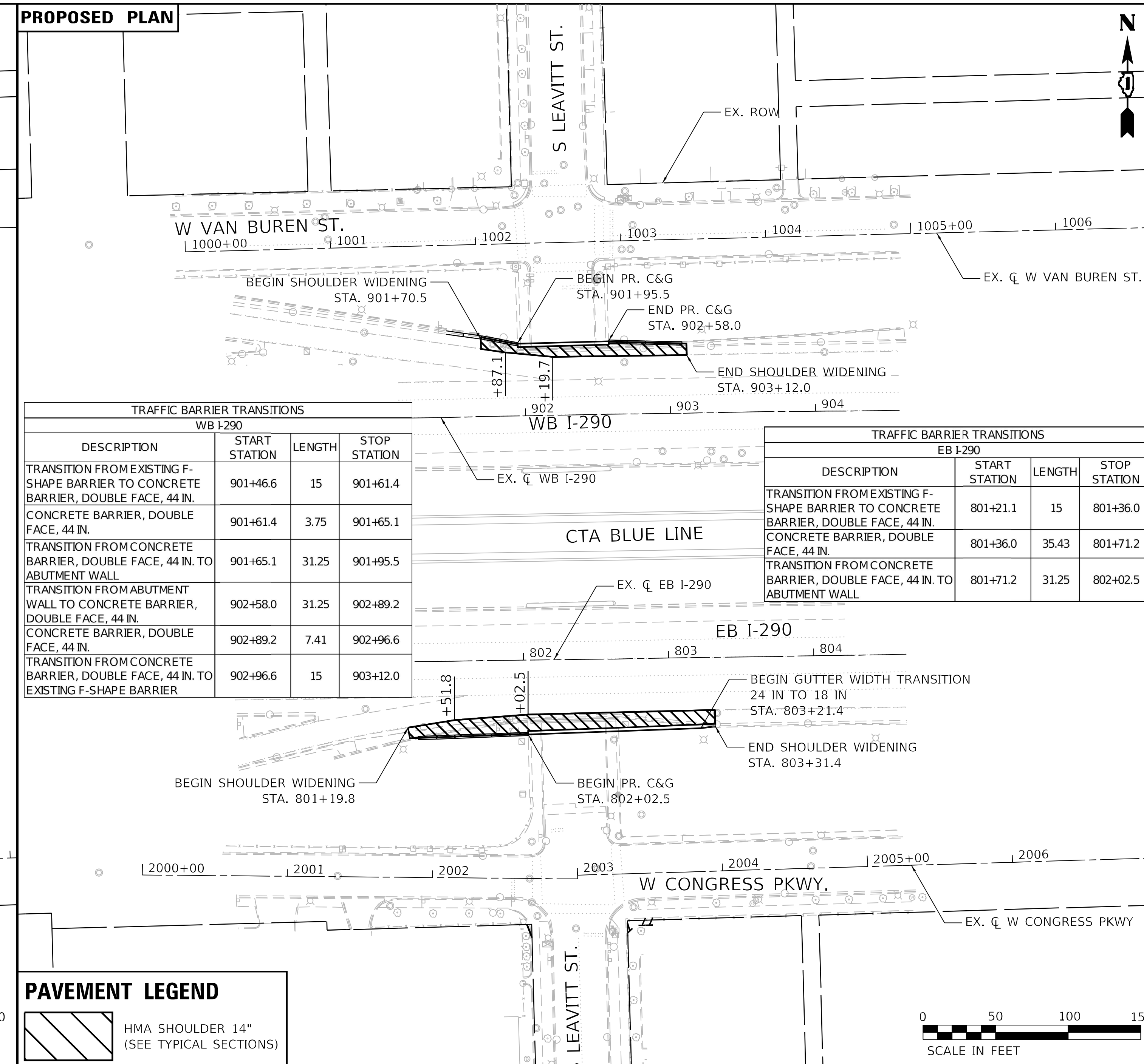
	PLOT DATE = 12/11/2024	DATE 12/03/2024	REVISED -	

LEAVITT STREET
EXISTING AND PROPOSED PLAN AND PROFILE

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. 100+00.00 TO STA. 105+45.00

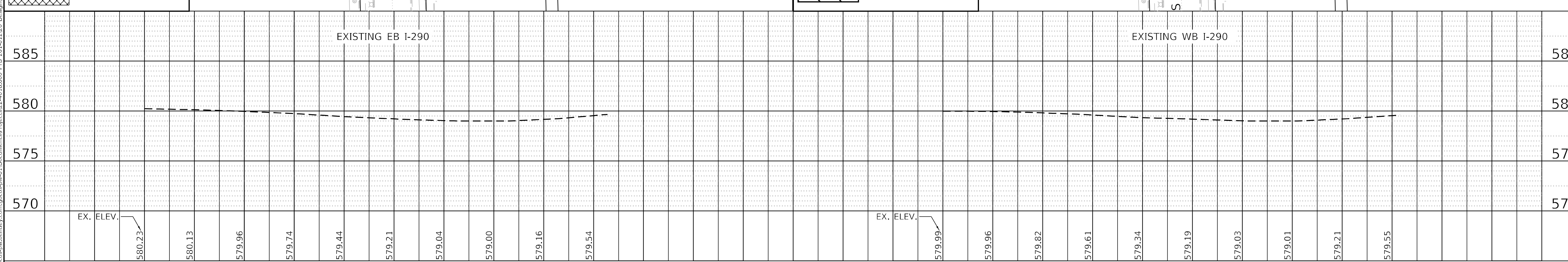
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	27
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		





TRAFFIC BARRIER TRANSITIONS			
WB I-290			
DESCRIPTION	START STATION	LENGTH	STOP STATION
TRANSITION FROM EXISTING F-SHAPE BARRIER TO CONCRETE BARRIER, DOUBLE FACE, 44 IN.	901+46.6	15	901+61.4
CONCRETE BARRIER, DOUBLE FACE, 44 IN.	901+61.4	3.75	901+65.1
TRANSITION FROM CONCRETE BARRIER, DOUBLE FACE, 44 IN. TO ABUTMENT WALL	901+65.1	31.25	901+95.5
TRANSITION FROM ABUTMENT WALL TO CONCRETE BARRIER, DOUBLE FACE, 44 IN.	902+58.0	31.25	902+89.2
CONCRETE BARRIER, DOUBLE FACE, 44 IN.	902+89.2	7.41	902+96.6
TRANSITION FROM CONCRETE BARRIER, DOUBLE FACE, 44 IN. TO EXISTING F-SHAPE BARRIER	902+96.6	15	903+12.0

TRAFFIC BARRIER TRANSITIONS			
EB I-290			
DESCRIPTION	START STATION	LENGTH	STOP STATION
TRANSITION FROM EXISTING F-SHAPE BARRIER TO CONCRETE BARRIER, DOUBLE FACE, 44 IN.	801+21.1	15	801+36.0
CONCRETE BARRIER, DOUBLE FACE, 44 IN.	801+36.0	35.43	801+71.2
TRANSITION FROM CONCRETE BARRIER, DOUBLE FACE, 44 IN. TO ABUTMENT WALL	801+71.2	31.25	802+02.5



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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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	DRAWN - CM	REVISED -	
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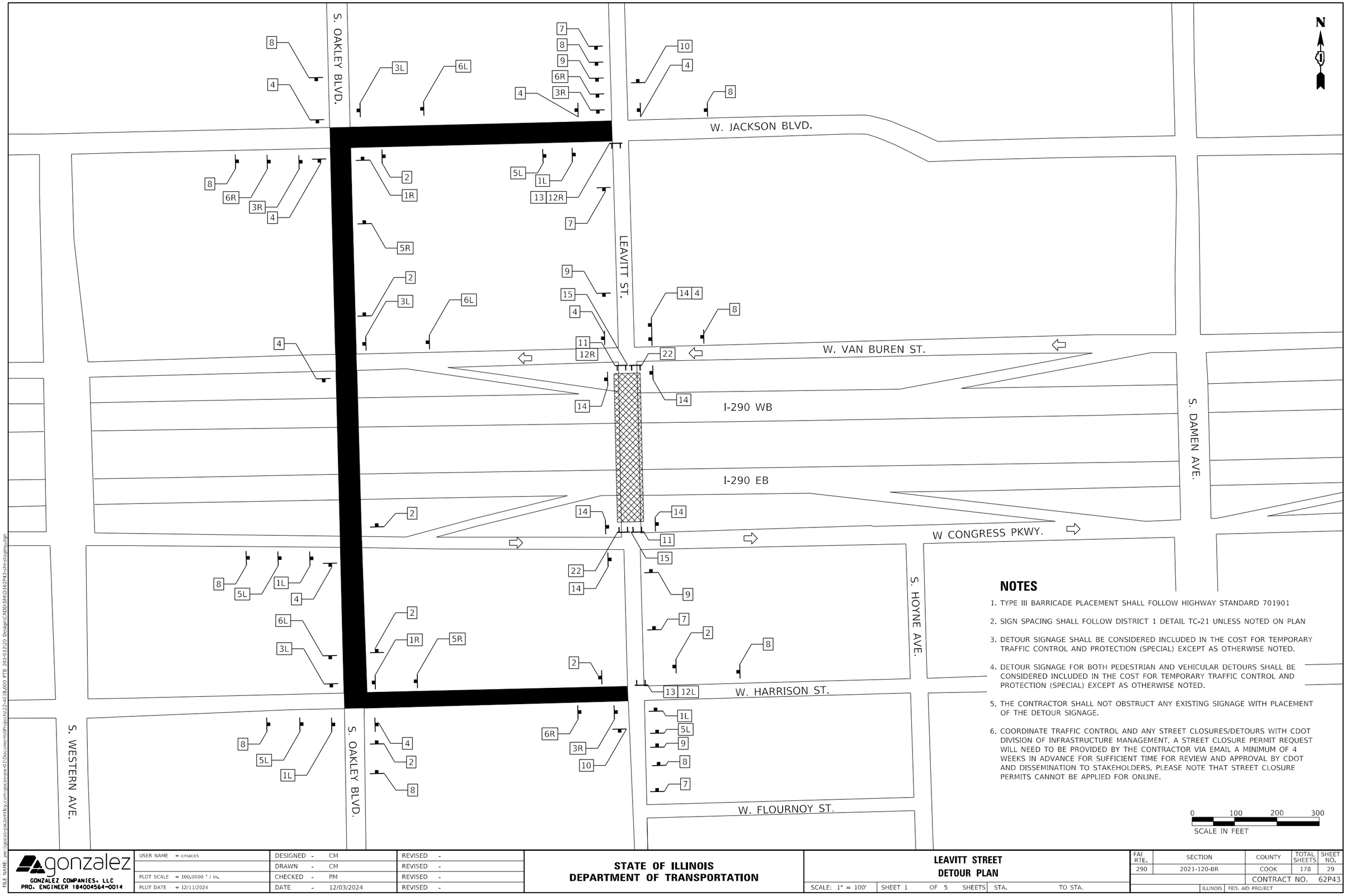
PLOT DATE = 1/10/2025	DATE - 01/16/2025	REVISED -	

I–290
EXISTING AND PROPOSED PLAN AND PROFILE

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

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	28
CONTRACT NO. 62P43				
ILLINOIS FED. AID PROJECT				



NOTES

1. TYPE III BARRICADE PLACEMENT SHALL FOLLOW HIGHWAY STANDARD 701901
2. SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-21 UNLESS NOTED ON PLAN
3. DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
4. DETOUR SIGNAGE FOR BOTH PEDESTRIAN AND VEHICULAR DETOURS SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGNAGE WITH PLACEMENT OF THE DETOUR SIGNAGE.
6. COORDINATE TRAFFIC CONTROL AND ANY STREET CLOSURES/DETOURS WITH CDOT DIVISION OF INFRASTRUCTURE MANAGEMENT. A STREET CLOSURE PERMIT REQUEST WILL NEED TO BE PROVIDED BY THE CONTRACTOR VIA EMAIL A MINIMUM OF 4 WEEKS IN ADVANCE FOR SUFFICIENT TIME FOR REVIEW AND APPROVAL BY CDOT AND DISSEMINATION TO STAKEHOLDERS. PLEASE NOTE THAT STREET CLOSURE PERMITS CANNOT BE APPLIED FOR ONLINE.

0 100 200 300
SCALE IN FEET

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PRO. ENGINEER 184004564-0014

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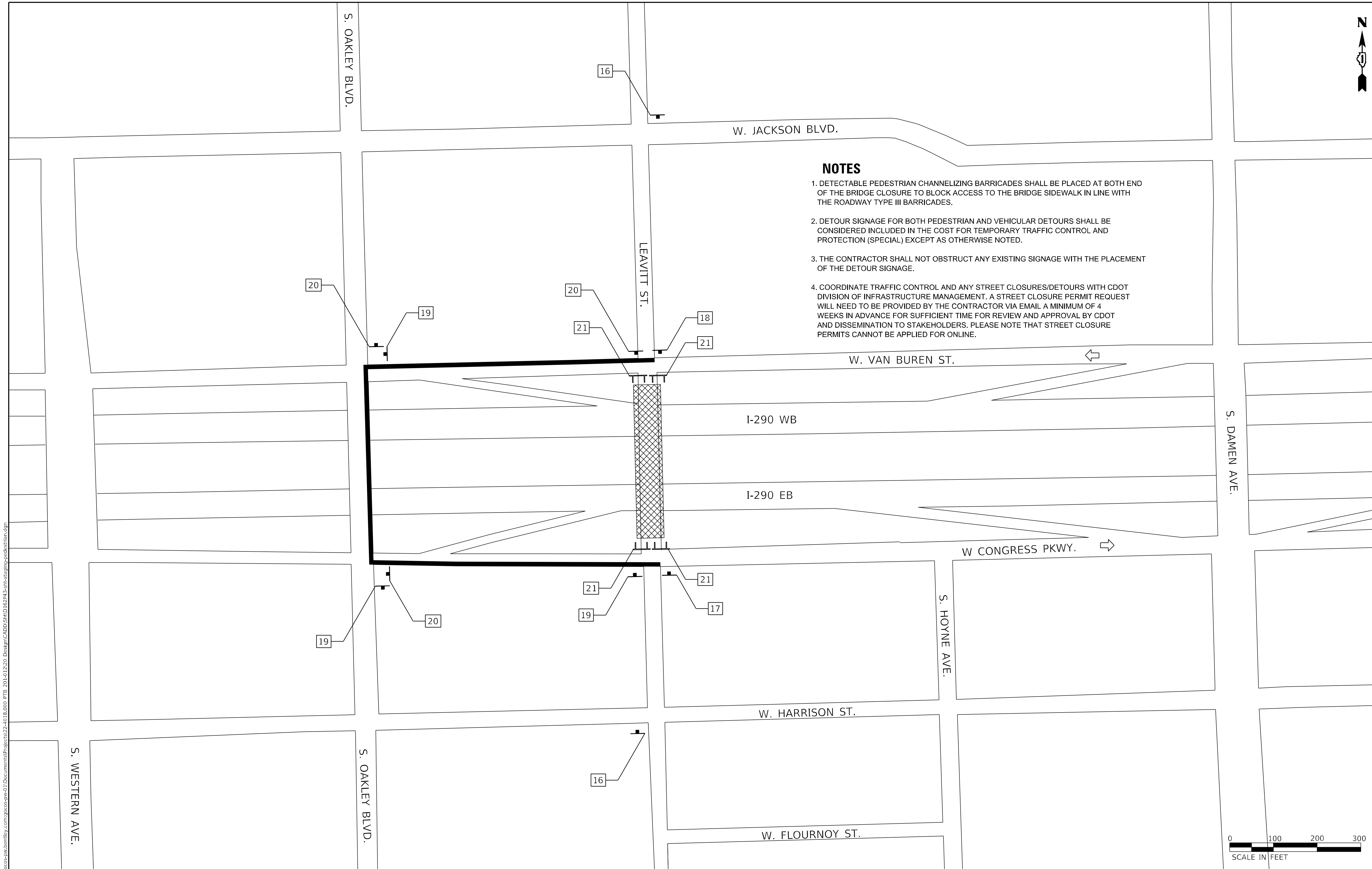
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEAVITT STREET
DETOUR PLAN

SCALE: 1" = 100' | SHEET 1 OF 5 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	29
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			



NOTES

1. DETECTABLE PEDESTRIAN CHANNELIZING BARRICADES SHALL BE PLACED AT BOTH END OF THE BRIDGE CLOSURE TO BLOCK ACCESS TO THE BRIDGE SIDEWALK IN LINE WITH THE ROADWAY TYPE III BARRICADES.

2. DETOUR SIGNAGE FOR BOTH PEDESTRIAN AND VEHICULAR DETOURS SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.

3. THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGNAGE WITH THE PLACEMENT OF THE DETOUR SIGNAGE.

4. COORDINATE TRAFFIC CONTROL AND ANY STREET CLOSURES/DETOURS WITH CDOT DIVISION OF INFRASTRUCTURE MANAGEMENT. A STREET CLOSURE PERMIT REQUEST WILL NEED TO BE PROVIDED BY THE CONTRACTOR VIA EMAIL A MINIMUM OF 4 WEEKS IN ADVANCE FOR SUFFICIENT TIME FOR REVIEW AND APPROVAL BY CDOT AND DISSEMINATION TO STAKEHOLDERS. PLEASE NOTE THAT STREET CLOSURE PERMITS CANNOT BE APPLIED FOR ONLINE.

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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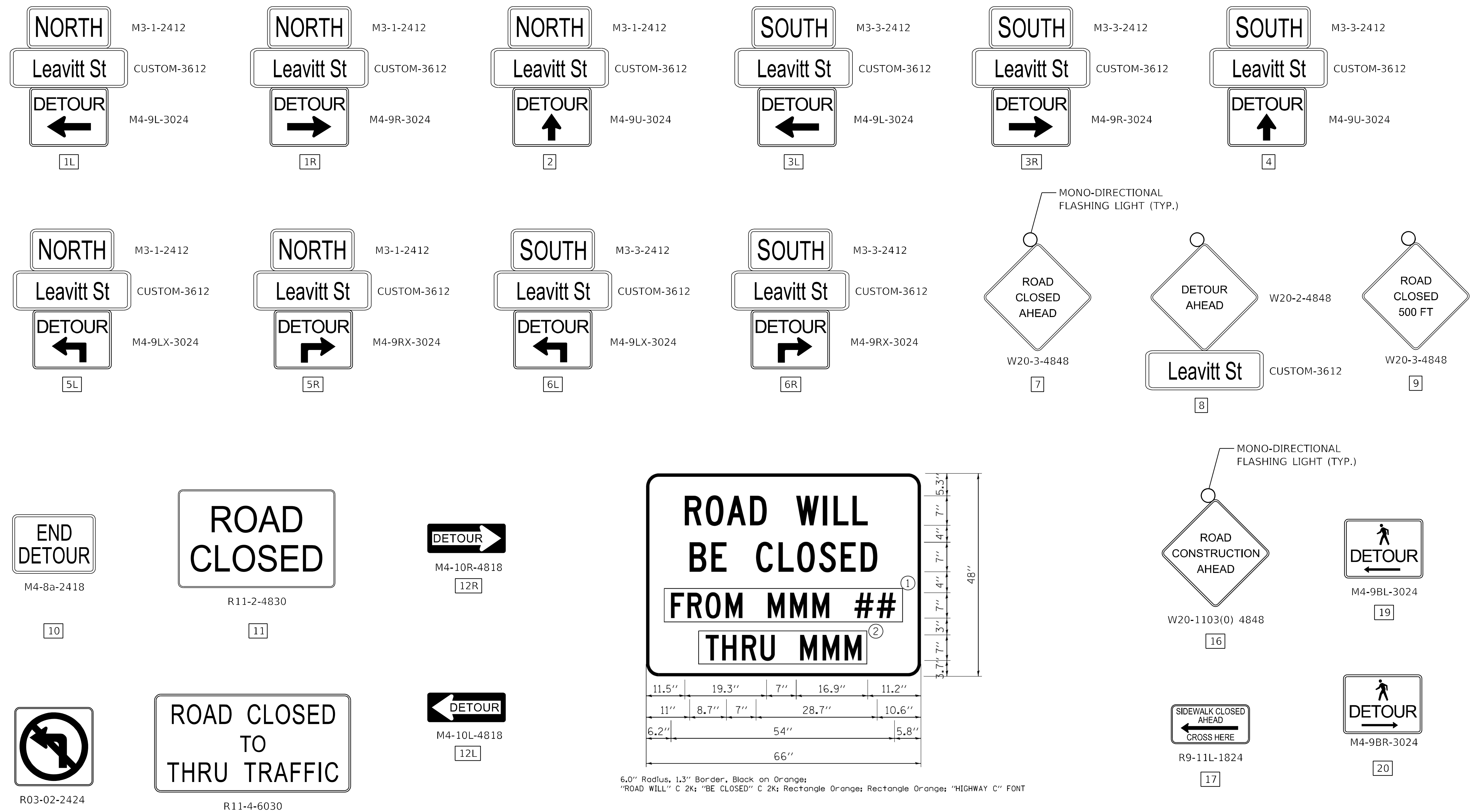
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEAVITT STREET
PEDESTRIAN DETOUR PLAN

SCALE: 1" = 100' | SHEET 2 OF 5 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	30
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		



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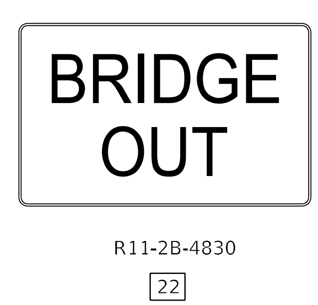

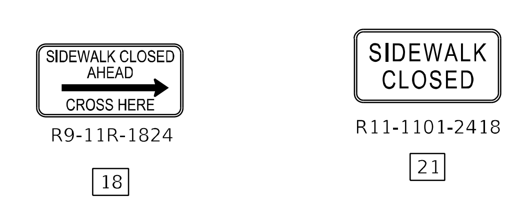

NOTE FOR CUSTOM SIGN #15

① OVERLAY PANEL ① TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION (i.e. "FROM APR 2")

② OVERLAY PANEL ② TO CONTAIN ENDING MONTH OF FULL CLOSURE & DETOUR (i.e. "THRU JULY") OMIT DATE ON PANEL ②: MONTH ONLY

ERECT SIGN ASSEMBLY (POST- MOUNTED) WITH PANELS 1 AND 2 IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSUED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOUSRE. REMOVE ASSEMBLY AFTER CLOSURE.

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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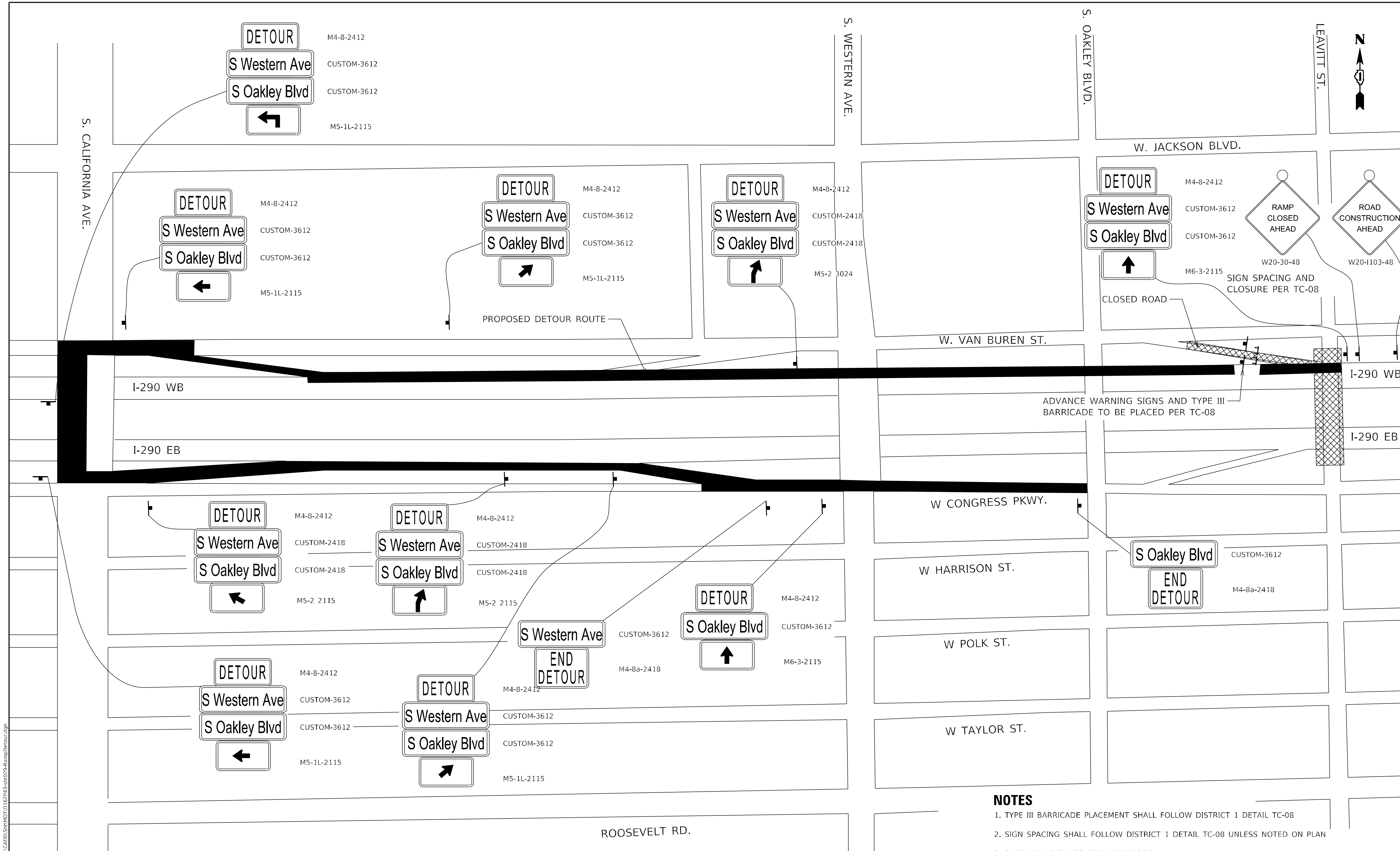
LEAVITT STREET
DETOUR PLAN SIGN LEGEND

SCALE: 1" = 100' | SHEET 3 OF 5 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	31
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



NOTES

1. TYPE III BARRICADE PLACEMENT SHALL FOLLOW DISTRICT 1 DETAIL TC-08
2. SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-08 UNLESS NOTED ON PLAN
3. OVERHEAD SIGN COVERED PED TC-08
4. STAGES THAT INCLUDE FULL RAMP CLOSURES REQUIRE COMPLETION OF OPER 2410 FORM AND REQUIRES A 21 DAY ADVANCE NOTICE.

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P 773.775.4009 | www.ciorba.com

USER NAME = Roadway	DESIGNED - EPS	REVISED -	
	DRAWN - AEC	REVISED -	
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PLOT DATE = 1/23/2025	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

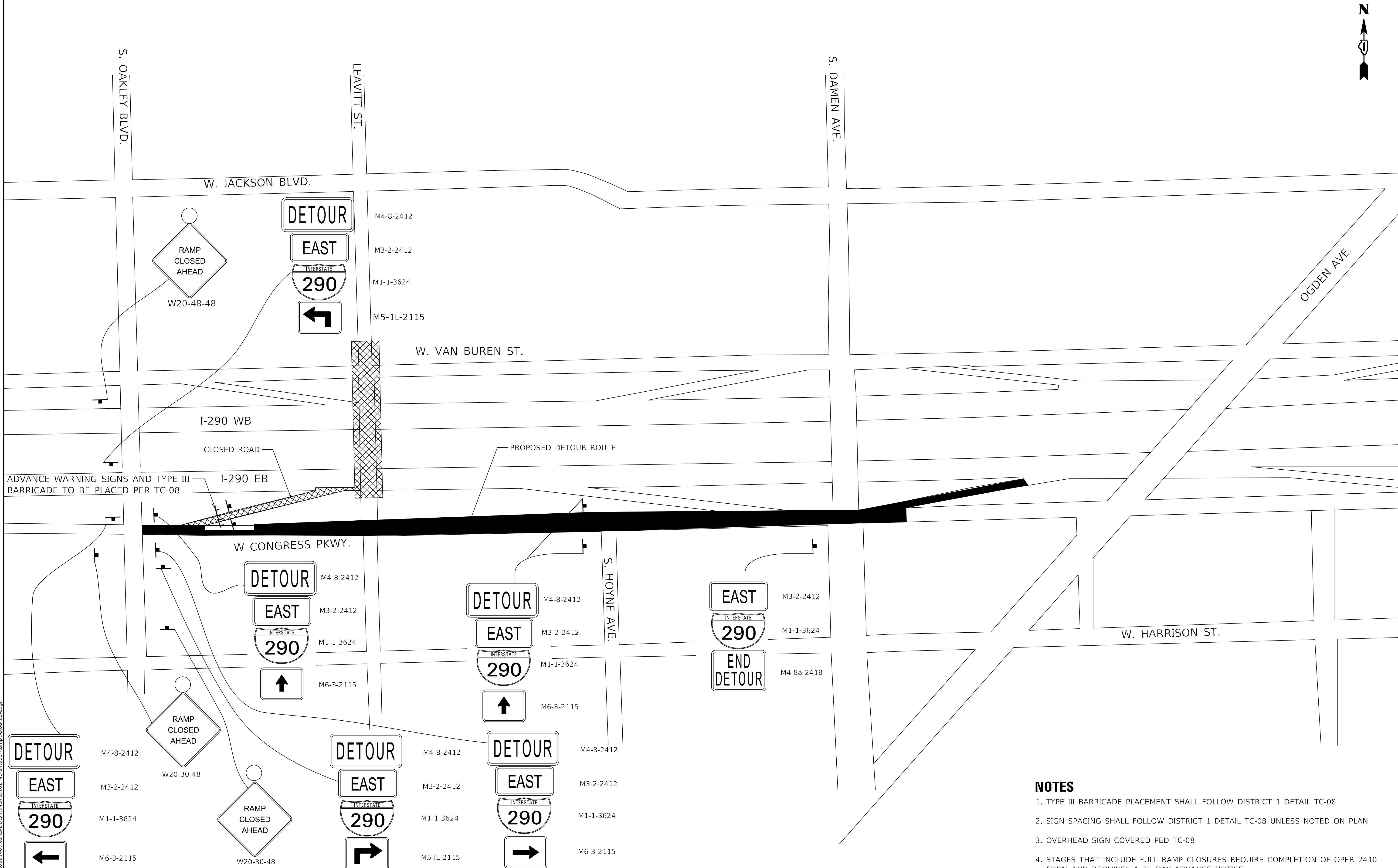
EXIT 27 C
DETOUR PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	32

CONTRACT NO. 62P43

ILLINOIS FED. AID PROJECT



NOTES

1. TYPE III BARRICADE PLACEMENT SHALL FOLLOW DISTRICT 1 DETAIL TC-08
2. SIGN SPACING SHALL FOLLOW DISTRICT 1 DETAIL TC-08 UNLESS NOTED ON PLAN
3. OVERHEAD SIGN COVERED PED TC-08
4. STAGES THAT INCLUDE FULL RAMP CLOSURES REQUIRE COMPLETION OF OPER 2410 FORM AND REQUIRES A 21 DAY ADVANCE NOTICE.

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USER NAME = Roadway	DESIGNED - EPS	REVISED -
	DRAWN - AEC	REVISED -
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PLOT DATE = 1/23/2025	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

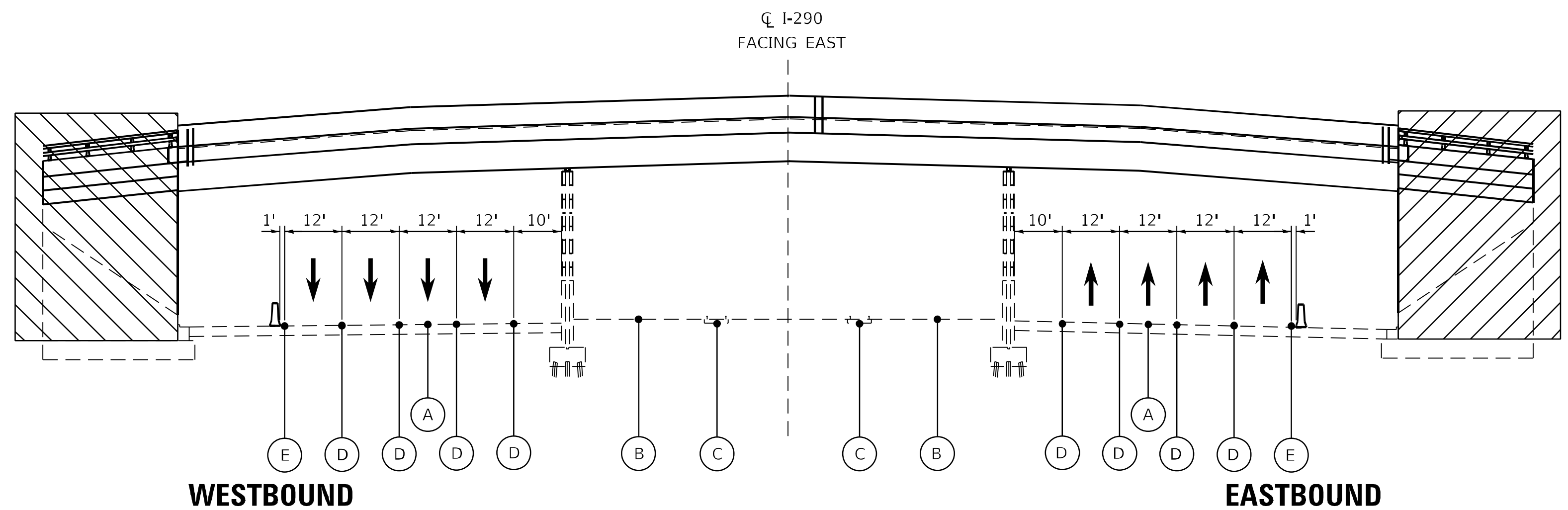
EXIT 28 A
DETOUR PLAN

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

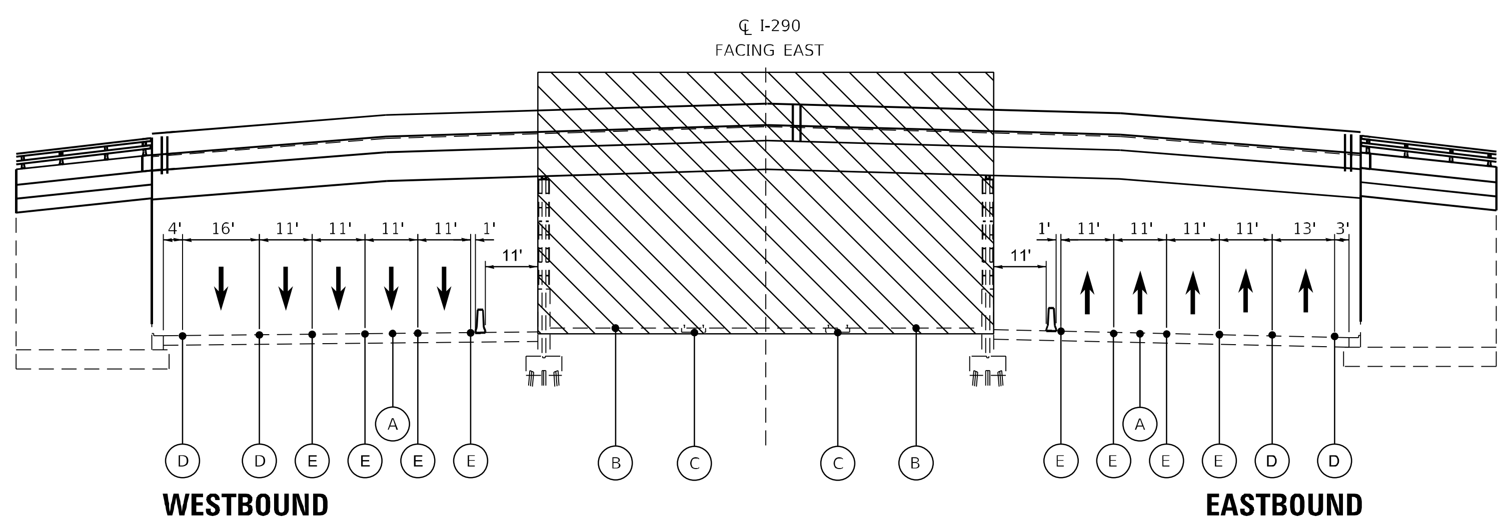
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	33
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

I–290 MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH IDOT ON THE TIMING OF THE RAMP CLOSURES. THE CLOSURES SHALL NOT OCCUR BETWEEN NOVEMBER 15TH AND APRIL 15TH. ONVE CLOSURES ARE APPROVED BY IDOT ALL WORK NECESSITATING THE CLOSURE SHALL BE COMPLETED AND THE RAMPS OPEN TO TRAFFIC WITHIN 90 CALENDAR DAYS.
2. ALL STAGE CHANGES REQUIRING THE STOPPING AND/OR THE PACING OF TRAFFIC SHALL TAKE PLACE DURING THE ALLOWABLE HOURS FOR FULL EXPRESSWAY CLOSURES AND SHALL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE DISTRCT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT LEAST 3 WORKING DAYS (WEEKEND AND HOLIDAYS DO NOT COUNT INTO THIS 72 HOUR NOTIFICATION) IN ADVANCE OF ANY PROPOSED STAGE CHANGE.
3. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES OR FULL EXPRESSWAY CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT LIMITED TO: LANE AND RAMP CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATIONS.
4. AS DIRECTED BY THE BUREAU OF TRAFFIC, ADDITIONAL LANE AND RAMP COSURES MAY BE REQUIRED DURING FULL STOPS ON I-290 WESTBOUND, SPECIFICALLY FROM SEB KENNEDY TO I-290 WB AND FROM FROM NB DAN RYAN TO I-290 WB, WITH POSTED DETOUR.



STAGE 1 – LEAVITT STREET BRIDGE OVER I–290



STAGE 2 – LEAVITT STREET BRIDGE OVER I–290

MOT LEGEND

- (A) EXISTING PAVEMENT
- (B) EXISTING GROUND
- (C) EXISTING CTA BLUE LINE TRACKS
- (D) EXISTING PAVEMENT MARKING
- (E) TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE

MOT SYMBOL LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER (1' O/S FROM TRAVEL LANE)

I–290 MAINTENANCE OF TRAFFIC STAGING NOTES

STAGE 1 - I-290

MAINTENANCE OF TRAFFIC

1. CLOSE WB EXIT RAMP AS SHOWN ON IN THE MOT PLANS
2. CLOSE EB ENTRANCE RAMP AS SHOWN IN THE MOT PLANS
3. CLOSE OUTSIDE SHOULDERS ON BOTH EB AND WB AS SHOWN IN THE MOT PLANS.
4. MAINTAIN TRAFFIC IN EXISTING LANES

CONSTRUCTION

1. CONSTRUCT NEW ABUTMENTS AND PAVEMENT

STAGE 2 - I-290

MAINTENANCE OF TRAFFIC

1. CLOSE INSIDE SHOULDERS ON BOTH EB AND WB AS SHOWN IN THE MOT PLANS
2. SHIFT TRAFFIC TO THE OUTSIDE. PROVIDE 11' LANES AS SHOWN IN THE MOT PLANS

CONSTRUCTION

1. PATCH AND REPAIR INSIDE PIERS.

STAGE 3 - I-290

MAINTENANCE OF TRAFFIC

1. FULL 15 MINUTE CLOSURES PER THE SPECIAL PROVISIONS.

CONSTRUCTION

1. SETTING OF BEAMS.

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USER NAME = Roadway	DESIGNED - EPS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - AEC	REVISED -	
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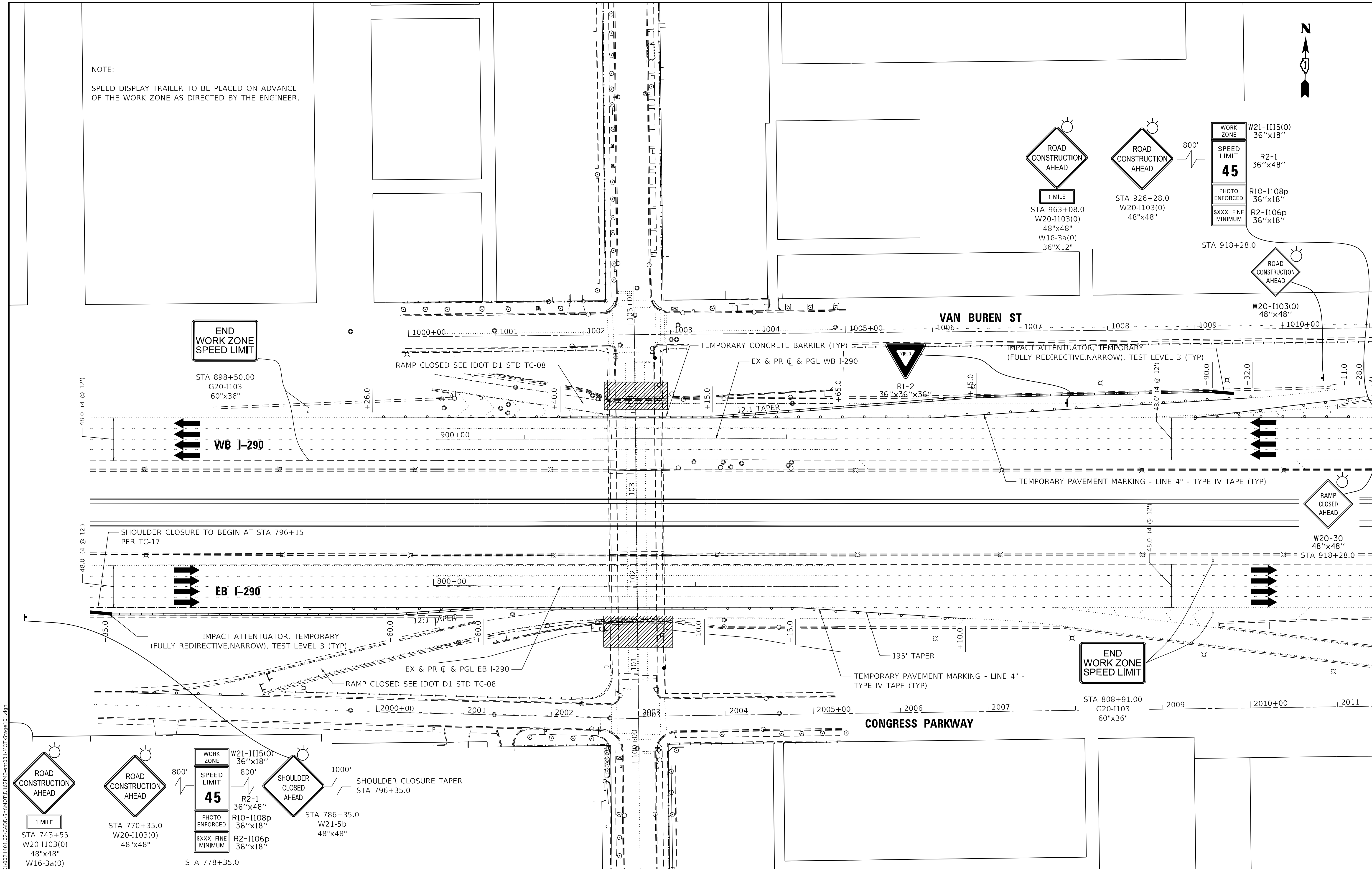
PLOT DATE = 1/23/2025	DATE - 12/3/2024	REVISED -	

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

SCALE: 1" = 10' | SHEET 01 OF 01 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	34
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		


NOTE:
SPEED DISPLAY TRAILER TO BE PLACED ON ADVANCE OF THE WORK ZONE AS DIRECTED BY THE ENGINEER.
ROAD CONSTRUCTION AHEAD
1 MILE
STA 963+08.0
W20-I103(0)
48"x48"
W16-3a(0)
36"X12"
ROAD CONSTRUCTION AHEAD
800'
STA 926+28.0
W20-I103(0)
48"x48"
WORK ZONE
W21-III5(0)
36''x18''
SPEED LIMIT 45
R2-1
36''x48''
PHOTO ENFORCED
R10-I108p
36''x18''
$XXX FINE MINIMUM
R2-I106p
36''x18''
STA 918+28.0
ROAD CONSTRUCTION AHEAD
W20-I103(0)
48''x48''
VAN BUREN ST
END WORK ZONE SPEED LIMIT
STA 898+50.00
G20-I103
60"x36"
TEMPORARY CONCRETE BARRIER (TYP)
RAMP CLOSED SEE IDOT D1 STD TC-08
EX & PR ℄ & PGL WB I-290
YIELD
R1-2
36''x36''x36''
IMPACT ATTENUATOR, TEMPORARY
(FULLY REDIRECTIVE,NARROW), TEST LEVEL 3 (TYP)
12:1 TAPER
WB I-290
TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (TYP)
RAMP CLOSED AHEAD
W20-30
48''x48''
STA 918+28.0
SHOULDER CLOSURE TO BEGIN AT STA 796+15
PER TC-17
EB I-290
12:1 TAPER
IMPACT ATTENTUATOR, TEMPORARY
(FULLY REDIRECTIVE,NARROW), TEST LEVEL 3 (TYP)
EX & PR ℄ & PGL EB I-290
RAMP CLOSED SEE IDOT D1 STD TC-08
195' TAPER
TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (TYP)
END WORK ZONE SPEED LIMIT
STA 808+91.00
G20-I103
60"x36"
CONGRESS PARKWAY
ROAD CONSTRUCTION AHEAD
1 MILE
STA 743+55
W20-I103(0)
48"x48"
W16-3a(0)
36"X12"
ROAD CONSTRUCTION AHEAD
800'
STA 770+35.0
W20-I103(0)
48"x48"
WORK ZONE
W21-III5(0)
36''x18''
SPEED LIMIT 45
800'
R2-1
36''x48''
PHOTO ENFORCED
R10-I108p
36''x18''
$XXX FINE MINIMUM
R2-I106p
36''x18''
STA 778+35.0
SHOULDER CLOSED AHEAD
1000'
STA 786+35.0
W21-5b
48"x48"
SHOULDER CLOSURE TAPER
STA 796+35.0

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USER NAME = Roadway	DESIGNED - EPS	REVISED -	
	DRAWN - AEC	REVISED -	
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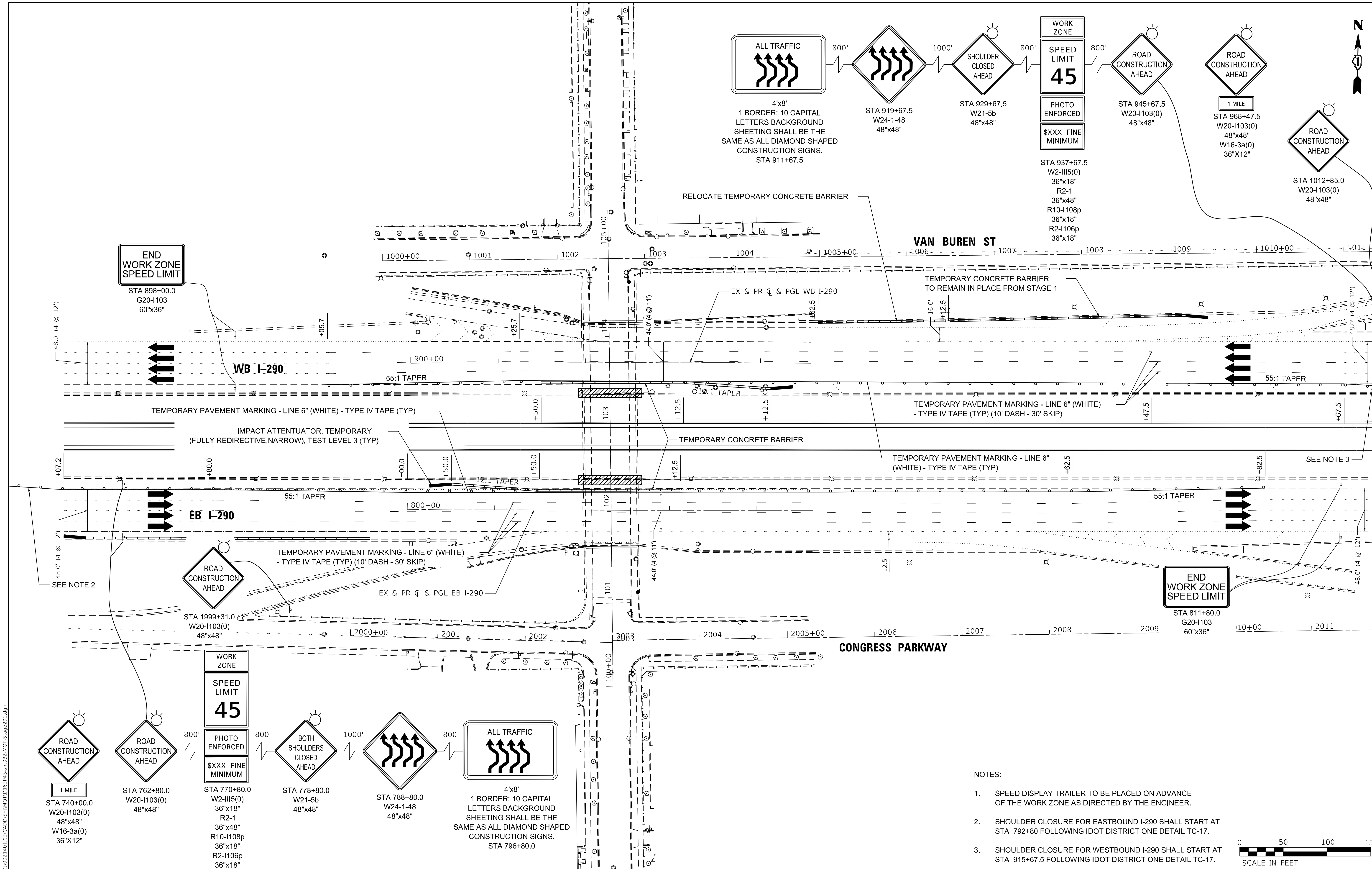
PLOT DATE = 1/23/2025	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE I – I-290

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	35
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



NOTES:

1. SPEED DISPLAY TRAILER TO BE PLACED ON ADVANCE OF THE WORK ZONE AS DIRECTED BY THE ENGINEER.
2. SHOULDER CLOSURE FOR EASTBOUND I-290 SHALL START AT STA 792+80 FOLLOWING IDOT DISTRICT ONE DETAIL TC-17.
3. SHOULDER CLOSURE FOR WESTBOUND I-290 SHALL START AT STA 915+67.5 FOLLOWING IDOT DISTRICT ONE DETAIL TC-17.

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USER NAME = Roadway	DESIGNED - EPS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE II – I-290	
	DRAWN - AEC	REVISED -			
PLOT SCALE = 100.0000 ' / in.	CHECKED - EPS	REVISED -			
PLOT DATE = 1/23/2025	DATE 12/3/2024	REVISED -		SCALE: 1" = 10' SHEET OF SHEETS STA. TO STA.	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	36
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

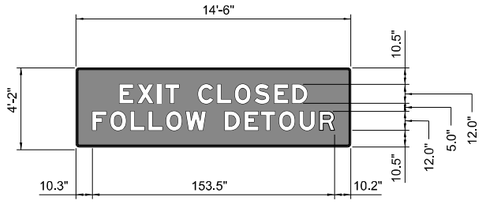
1

2

3

A B C

D E F



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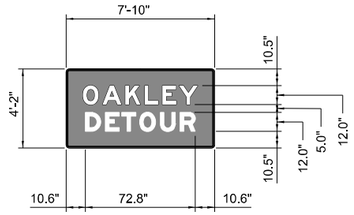
IN=0.47" M.U.T.C.D.: 1988 Edition



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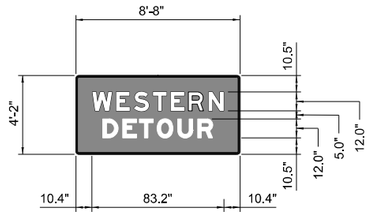

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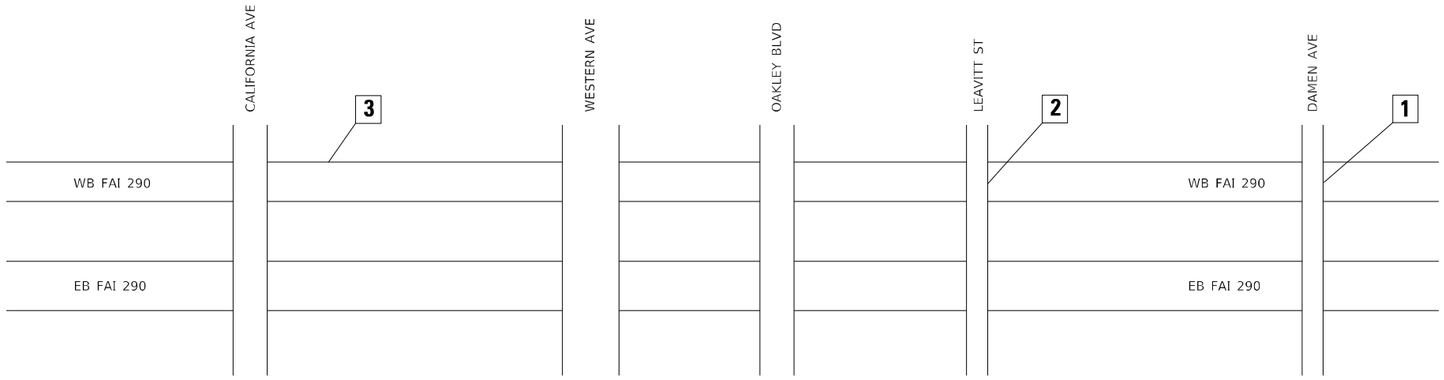
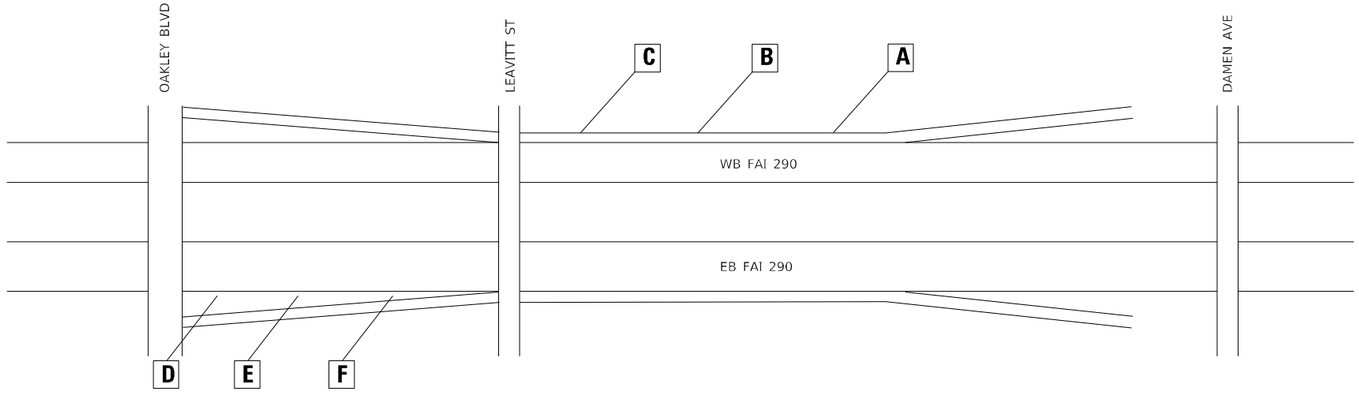


OVERHEAD SIGN LOCATIONS



RELOCATE EXISTING SIGN PANEL (SPECIAL) LOCATIONS

LOCATIONS TO BE APPROVED BY THE ENGINEER
TEMPORARY SIGNS SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER
(TCB SHOWN ON STAGE 1 AND STAGE 2 DRAWINGS)

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USER NAME = Roadway	DESIGNED - EPS	REVISED -	
	DRAWN - AEC	REVISED -	
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PLOT DATE = 1/23/2025	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	37
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

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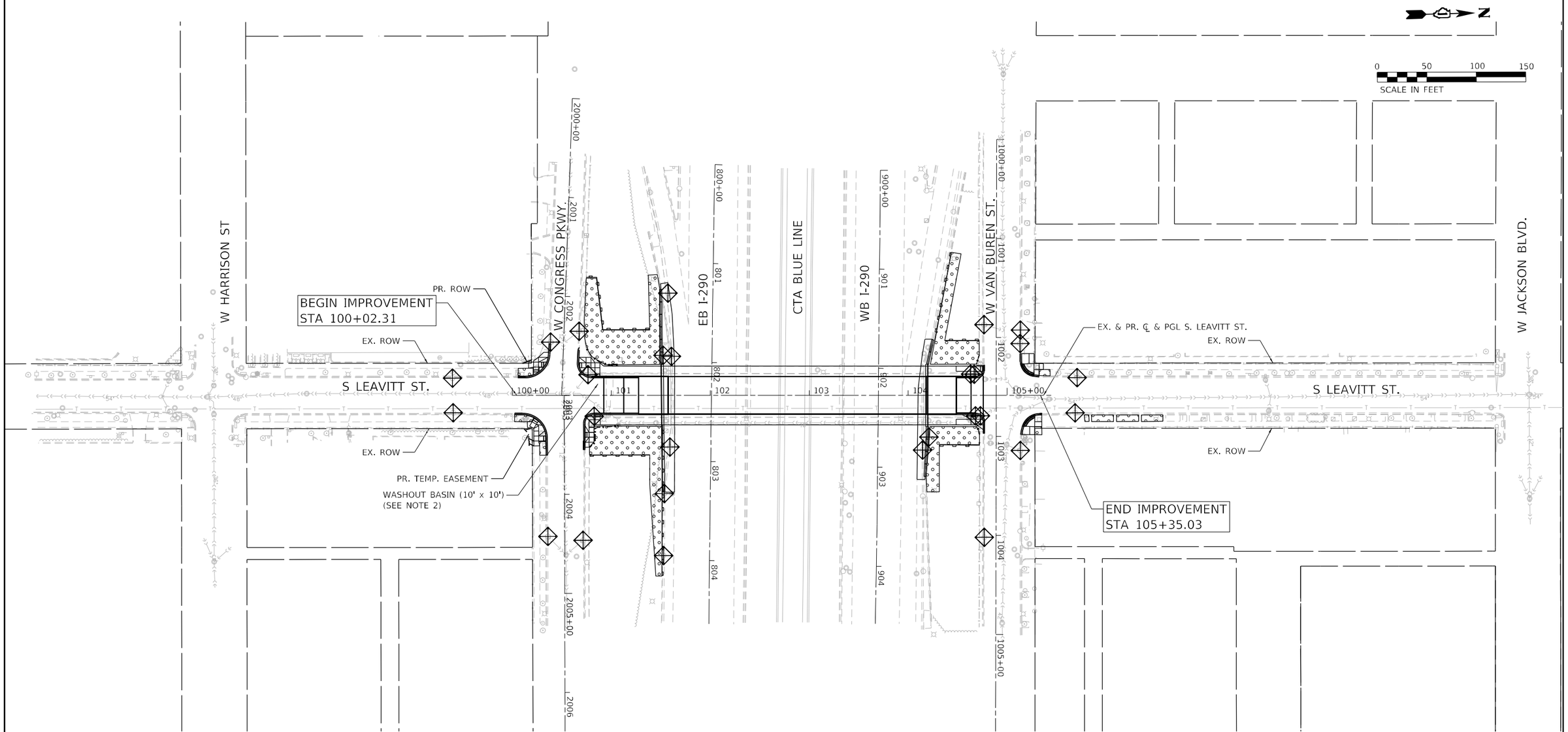

EROSION CONTROL LEGEND

INLET FILTER / INLET PROTECTION, SPECIAL

PERIMETER EROSION BARRIER

TEMPORARY EROSION CONTROL SEEDING, AND
TEMPORARY EROSION CONTROL BLANKET (SEE NOTE 1)

NOTE:

1. TEMPORARY EROSION CONTROL BLANKET AND SEEDING SHALL BE USED TO STABILIZE ANY DISTURBED AREAS WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
2. THE LOCATION OF THE CONCRETE WASHOUT FACILITY SHALL BE DETERMINED BY THE CONTRACTOR ON THE SITE.

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USER NAME = Roadway	DESIGNED - JS	REVISED -	
	DRAWN - JS	REVISED -	
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PLOT DATE = 1/24/2025	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEAVITT STREET
EROSION AND SEDIMENT CONTOL PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	38
		CONTRACT NO.		62P43
	ILLINOIS	FED. AID PROJECT		

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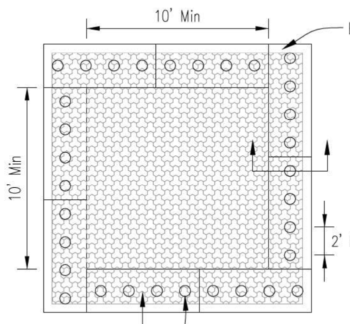
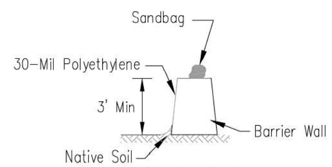
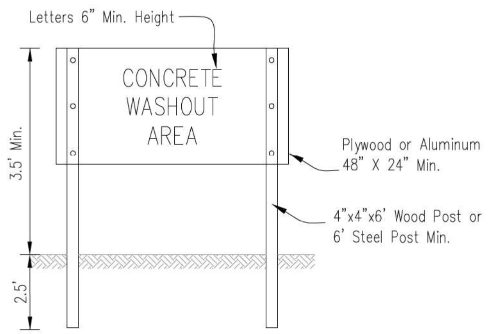
AUTOCAD2006



PLAN VIEW



BARRIER WALL ANCHOR SECTION



SIGN DETAIL

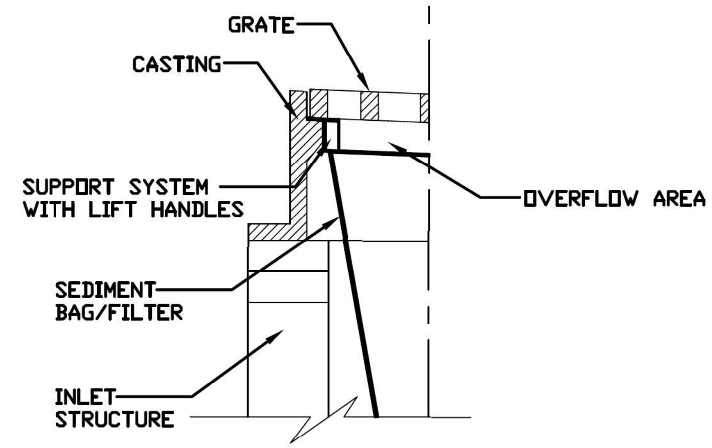
NOTES:

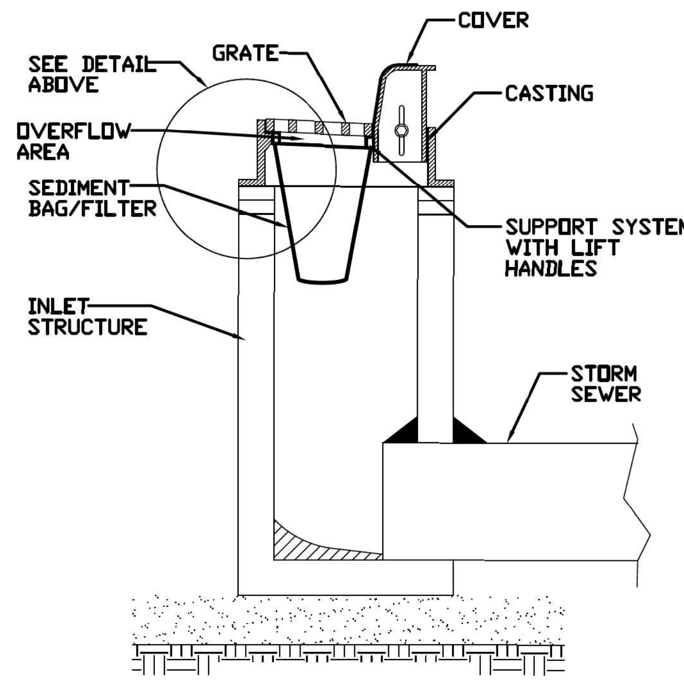
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.

2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Sheet 3 of 3	Drawing No. IUM-654BW	TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL
Designed		Date
Drawn	B. JOHNSON	6/08
Checked		
Approved		

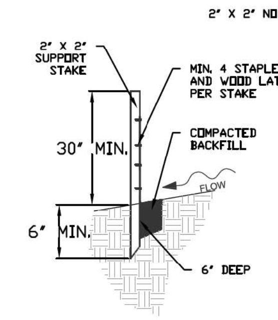
INLET PROTECTION – PAVED AREAS DROP-IN PROTECTION



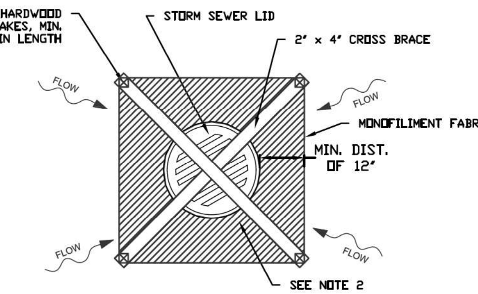


REFERENCE		STANDARD DWG. NO.
Project ________		IUM-561D
Designed ________ Date ______		SHEET 1 OF 1
Checked ________ Date ______		DATE 01-11-11
Approved ________ Date ______		

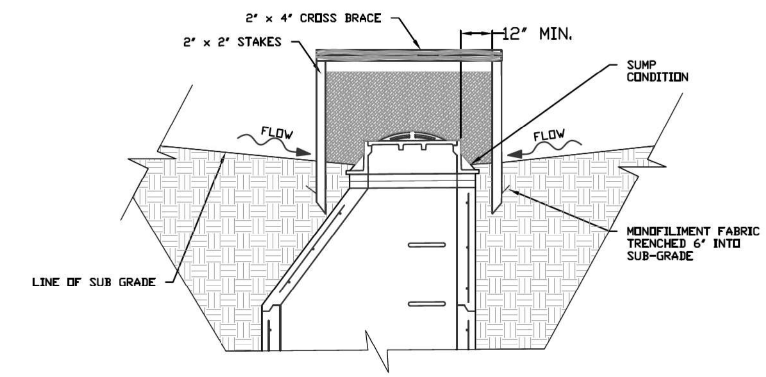
INLET PROTECTION –MONOFILAMENT FABRIC BARRIER FENCE



STAKE DETAIL



PLAN VIEW



SECTION

NOTES:

1. 2 x 2 nominal hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.
2. Area inside the fence, from edge of fabric to structure, must be stabilized with Erosion Control Blanket, Turf Reinforcement Mat, Geotextile 592 Table 2 Class 2 or CA-7 stone
3. Maximum height of the fabric above the crest of the drop inlet shall be 30". Place the bottom 6 inches of the fabric in a trench and backfill with 6 inches of 95% compacted soil.
4. Stakes must be a maximum of 4 feet apart.
5. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the monofilment fabric.
6. Monofilment fabric shall meet the requirement of Material Specification 592 Geotextile Table 1, Class 4.
7. Monofillment fabric shall be secured to each 2" x 2" nominal hardwood stake with a minimum of 4 steel staple fasteners and wood lath. Wood lath shall be a minimum length of 10 inches. Wire fasteners should be used if metal T-Posts are installed in place of hardwood stakes.

REFERENCE		STANDARD DWG. NO.
Project ________		IUM-531
Designed ________ Date ______		SHEET 1 OF 1
Checked ________ Date ______		DATE 04-6-15
Approved ________ Date ______		

INLET PROTECTION (SPECIAL)

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USER NAME = Roadway	DESIGNED - JS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - JS	REVISED -	
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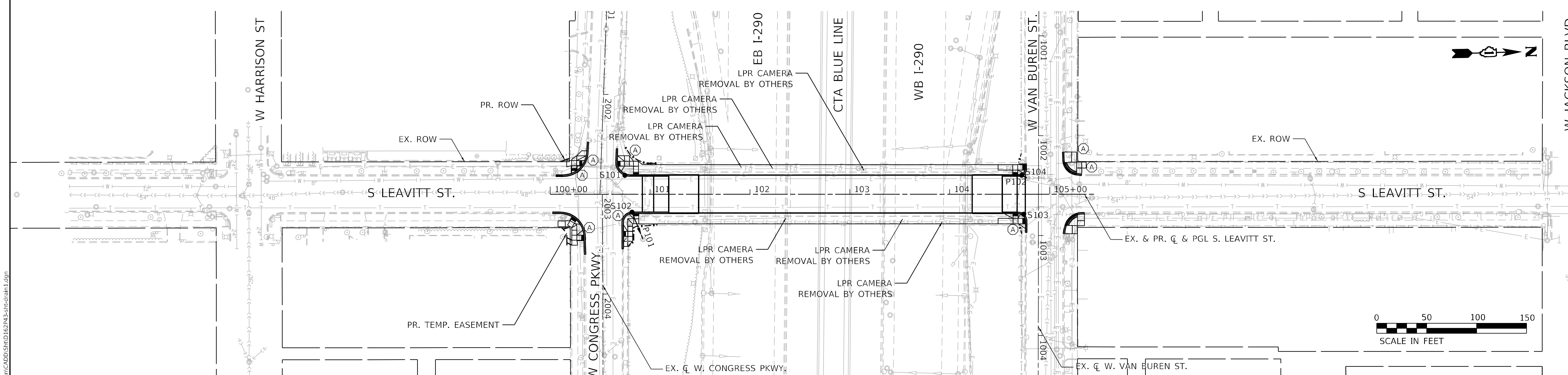
PLOT DATE = 11/26/2024	DATE - 5/31/2024	REVISED -	

LEAVITT STREET
EROSION AND SEDIMENT CONTROL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	39
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



NOTE:

1. IF DRAIN CONNECTION IS NOT IEPA COMPLIANT, THE DRAIN CONNECTION SHALL BE WATER MAIN QUALITY PIPE AND MUST MEET ALL IEPA CLEARANCE REQUIREMENTS

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN - CM	REVISED -	
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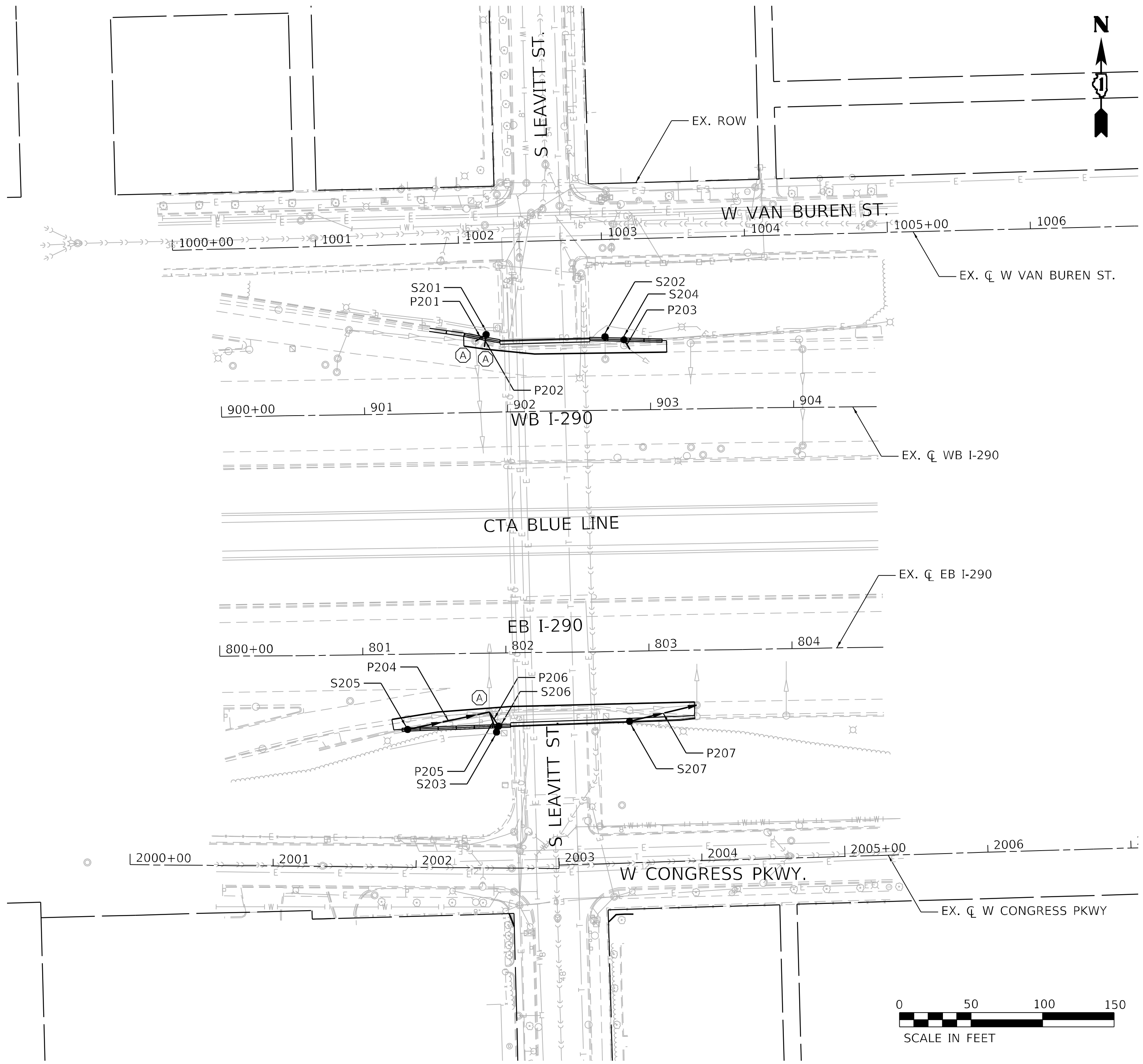
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

LEAVITT STREET
DRAINAGE AND UTILITIES PLAN

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. 100+00.00 TO STA. 105+45.00

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	40
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



NOTE:

1. DRAINAGE STRUCTURE ADJUSTMENTS SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER FOR COMPATIBILITY WITH PROPOSED SHOULDER GRADING.

2. PROPOSED CATCH BASIN RIMS SHALL BE SET AS DIRECTED BY THE ENGINEER TO DRAIN THE SLOPE BEHIND THE TRAFFIC BARRIER.
PROPOSED RIM ELEVATIONS ARE APPROXIMATE ONLY BASED ON GROUND SURVEY.

3. IF DRAIN CONNECTION IS NOT IEPA COMPLIANT, THE DRAIN CONNECTION SHALL BE WATER MAIN QUALITY PIPE AND MUST MEET ALL IEPA CLEARANCE REQUIREMENTS.

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gonzalez GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014	USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I–290 DRAINAGE AND UTILITIES PLAN
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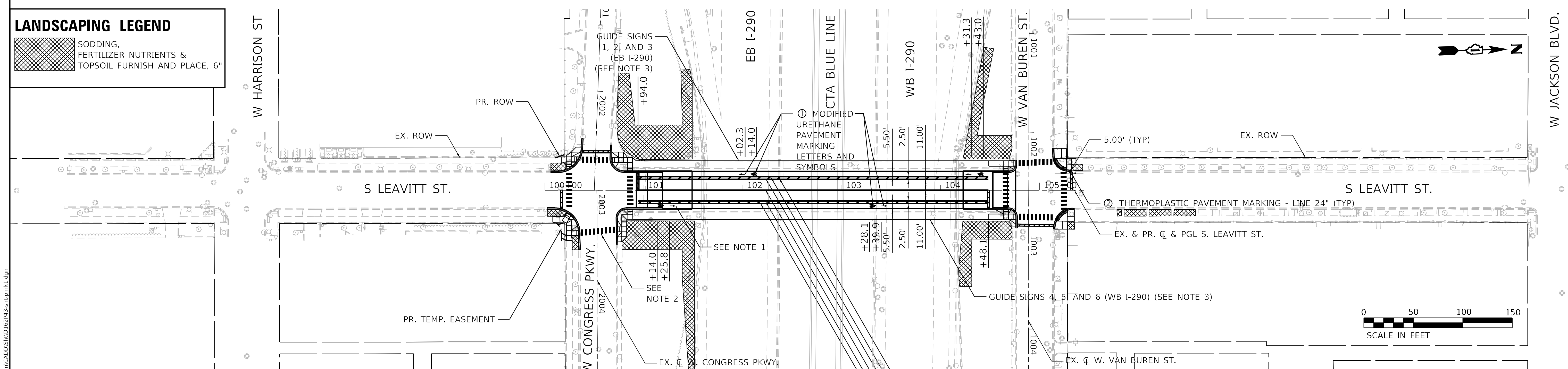
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	41
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

LANDSCAPING LEGEND

SODDING, FERTILIZER NUTRIENTS & TOPSOIL FURNISH AND PLACE, 6"



NOTES:

1. MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP) SEE DISTRICT ONE DETAIL TC-24 DRAWING #28 FOR BIKE LANE SYMBOLS.
2. THERMOPLASTIC PAVEMENT MARKING - LINE 24" (TYP) SEE DISTRICT ONE DETAIL TC-24 FOR 6' CONTINENTAL CROSSWALK.
3. SEE GUIDE SIGN DETAILS FOR SIGNS 1 THROUGH 6. LOCATIONS OF THESE SIGNS ON THIS SHEET ARE APPROXIMATE ONLY.
4. PREFORMED PLASTIC PAVEMENT MARKINGS, TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL CENTERLINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC APPROACH PAVEMENT.
5. THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON HMA PAVEMENT AND MODIFIED URETHANE ON CONCRETE PAVEMENT EXCEPT AS OTHERWISE NOTED.
6. MODIFIED URETHANE PAVEMENT MARKING LINE 4"
7. MODIFIED URETHANE PAVEMENT MARKING LINE 8"

GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = pmccluskey	DESIGNED - CM	REVISED -
	DRAWN - CM	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - PM	REVISED -
PLOT DATE = 1/22/2025	DATE - 01/16/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LEAVITT STREET
PAVEMENT MARKING AND RESTORATION PLAN

SCALE: 1" = 50' | SHEET 1 OF 2 SHEETS | STA. 100+00.00 TO STA. 105+45.00

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	42

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

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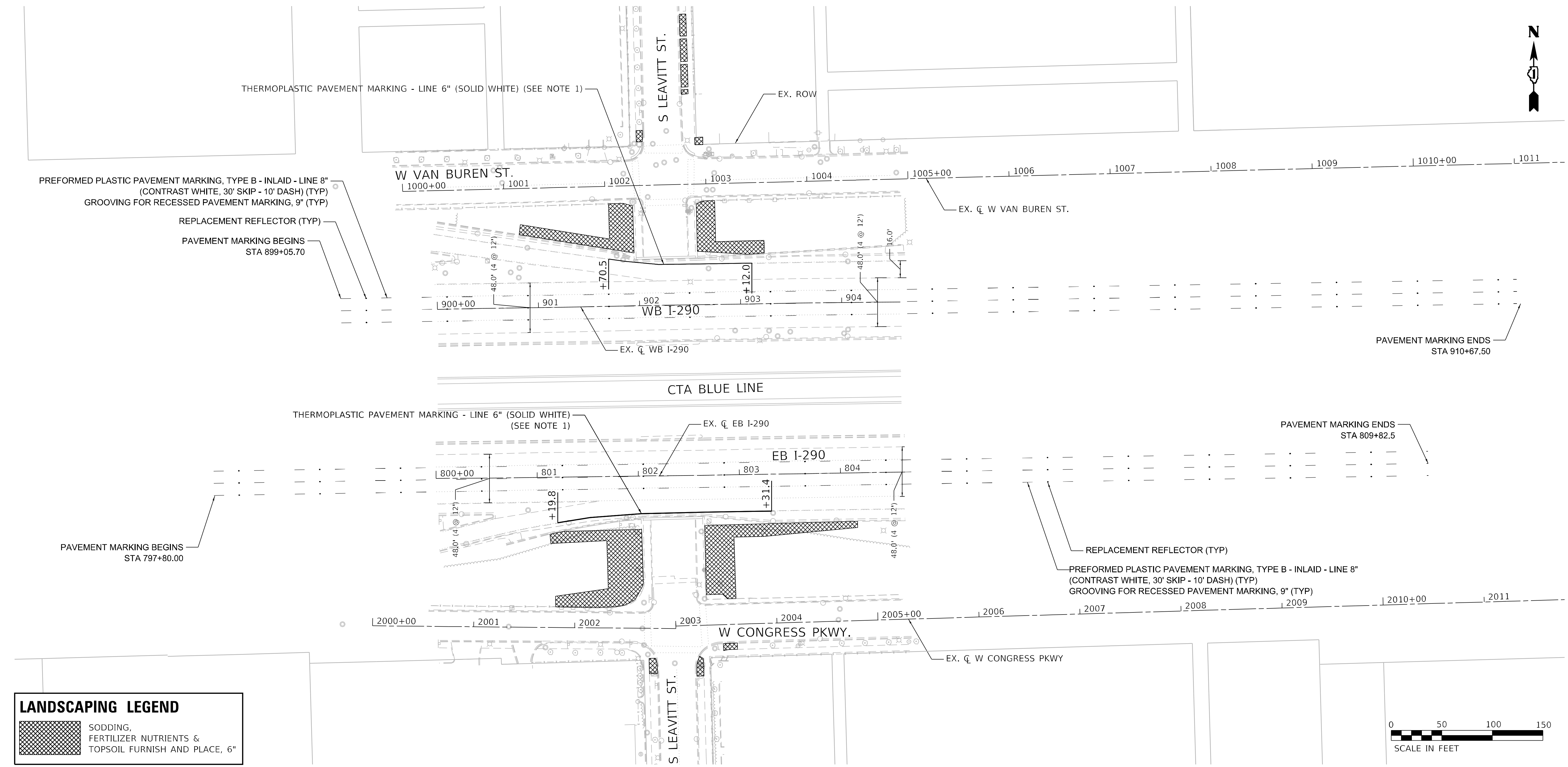

NOTE:

1. PROPOSED PAVEMENT MARKINGS SHALL BE IN SAME LOCATION AS EXISTING PAVEMENT MARKINGS.

GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014

USER NAME = pmccluskey	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CM	REVISED -	
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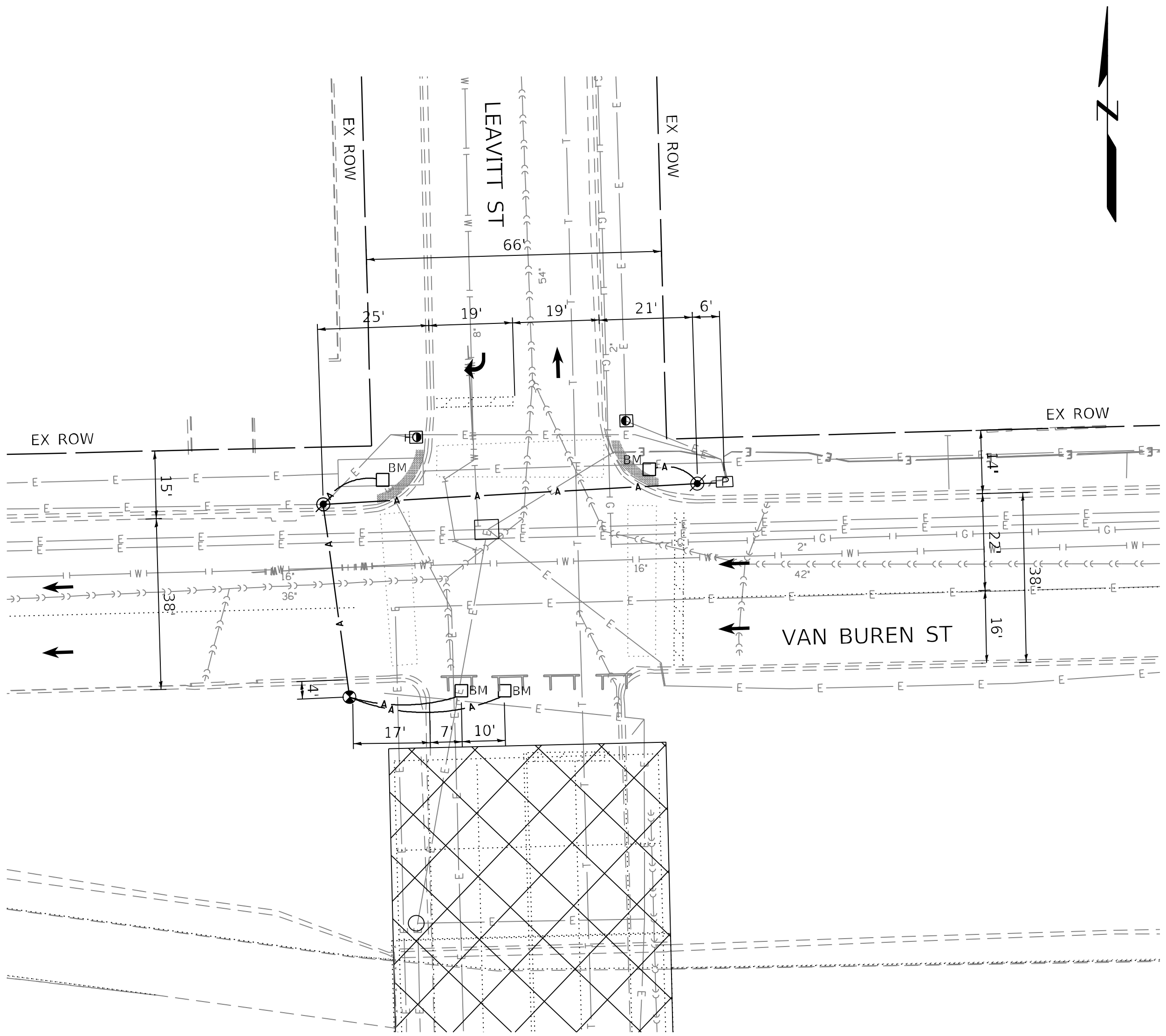
I-290
PAVEMENT MARKING AND RESTORATION PLAN
SCALE: 1" = 50' | SHEET 2 OF 2 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	43
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



TEMPORARY FOUNDATION AND CONDUIT PLAN

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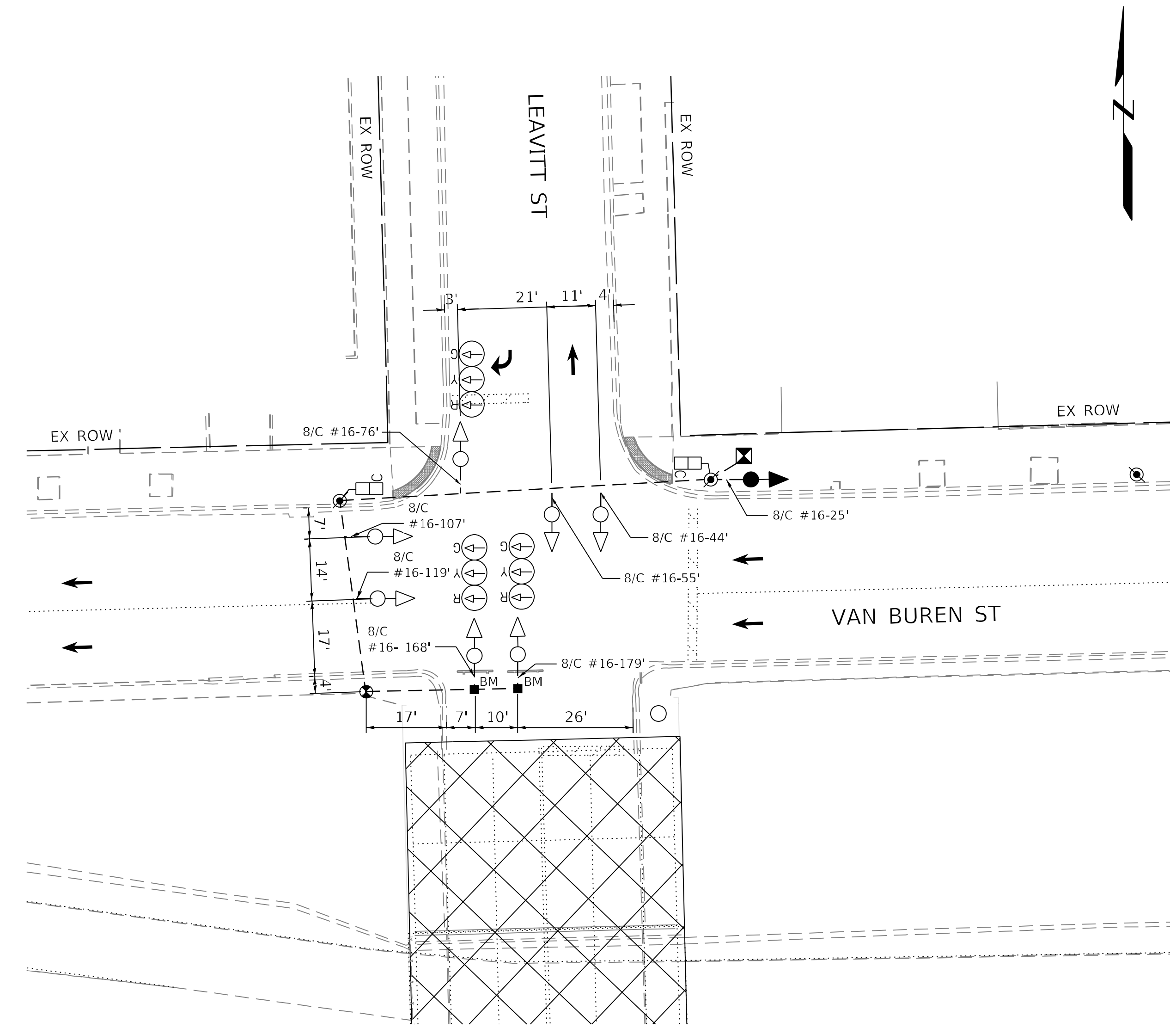

TEMPORARY SIGNAL AND CABLE PLAN

NOT TO SCALE

LEGEND

- EXISTING TRAFFIC SIGNAL HEAD
- PROPOSED TRAFFIC SIGNAL HEAD
- PROPOSED COUNTDOWN PEDESTRIAN SIGNAL
- BARREL-MOUNTED TRAFFIC SIGNAL POST
- TEMPORARY WOOD POLE

TEMPORARY SIGNAL INSTALLATION NOTES:

1. TEMPORARY WOOD POLES TO BE CLASS 5 OR BETTER AND 45' MINIMUM HEIGHT.

A	
DATE	REVISION

TRAFFIC CONTROL SIGNALS
LEAVITT ST. & VAN BUREN ST.

CITY OF CHICAGO
DEPT. OF TRANSPORTATION
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN: DTJ	CHIEF DRAFTSMAN:	ENGINEER: DTJ
SUPERVISING ENGINEER: JMV	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		14614 T
GEN'L SUPT. OF CONSTRUCTION:		
DEPUTY COMMISSIONER:		
SIZE:	SCALE: AS NOTED	DATE: 12/3/2024

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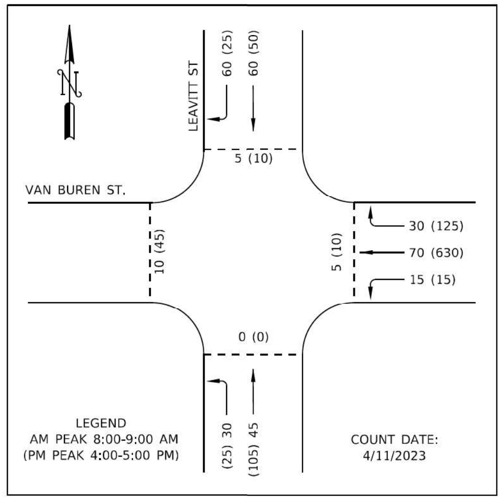
USER NAME = untitled	DESIGNED - DTJ	REVISED -
	DRAWN - DTJ	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

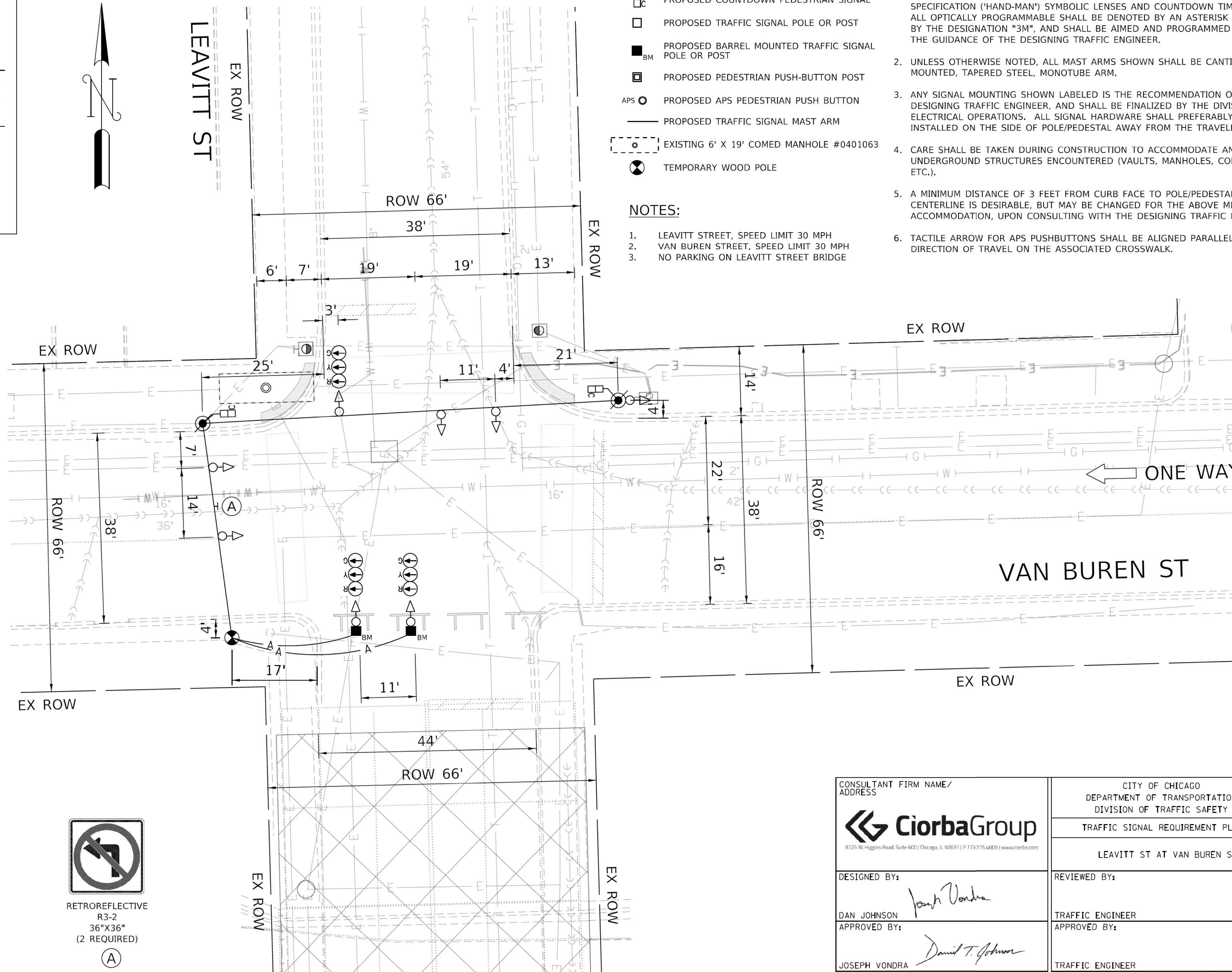
LEAVITT STREET
TEMPORARY TRAFFIC SIGNAL INSTALLATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	44
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



TEMPORARY TRAFFIC SIGNAL REQUIREMENTS



LEGEND

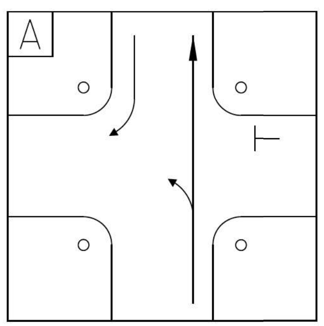
- PROPOSED TRAFFIC SIGNAL HEAD
- PROPOSED COUNTDOWN PEDESTRIAN SIGNAL
- PROPOSED TRAFFIC SIGNAL POLE OR POST
- BM PROPOSED BARREL MOUNTED TRAFFIC SIGNAL POLE OR POST
- PROPOSED PEDESTRIAN PUSH-BUTTON POST
- APS PROPOSED APS PEDESTRIAN PUSH BUTTON
- PROPOSED TRAFFIC SIGNAL MAST ARM
- EXISTING 6' X 19' COMED MANHOLE #0401063
- TEMPORARY WOOD POLE

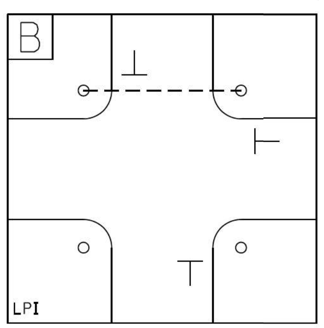
NOTES:

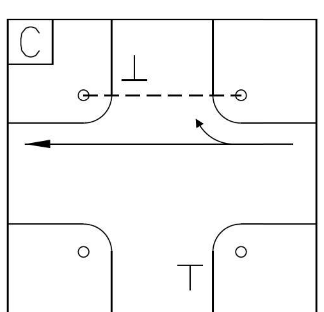
1. LEAVITT STREET, SPEED LIMIT 30 MPH
2. VAN BUREN STREET, SPEED LIMIT 30 MPH
3. NO PARKING ON LEAVITT STREET BRIDGE

GENERAL NOTES, TRAFFIC SIGNAL REQUIREMENTS

1. UNLESS OTHERWISE NOTED ALL VEHICULAR SIGNALS SHALL BE STANDARD 12-INCH DIA., ADJUSTABLE 3-SECTION UNITS, AND ALL PEDESTRIAN SIGNALS SHALL BE STANDARD 16-INCH, ADJUSTABLE, 1-SECTION UNITS WITH I.T.E.-SPECIFICATION ('HAND-MAN') SYMBOLIC LENSES AND COUNTDOWN TIMERS. ALL OPTICALLY PROGRAMMABLE SHALL BE DENOTED BY AN ASTERISK (*), OR BY THE DESIGNATION "3M", AND SHALL BE AIMED AND PROGRAMMED WITH THE GUIDANCE OF THE DESIGNING TRAFFIC ENGINEER.
2. UNLESS OTHERWISE NOTED, ALL MAST ARMS SHOWN SHALL BE CANTILEVER MOUNTED, TAPERED STEEL, MONOTUBE ARM.
3. ANY SIGNAL MOUNTING SHOWN LABELED IS THE RECOMMENDATION OF THE DESIGNING TRAFFIC ENGINEER, AND SHALL BE FINALIZED BY THE DIVISION OF ELECTRICAL OPERATIONS. ALL SIGNAL HARDWARE SHALL PREFERABLY BE INSTALLED ON THE SIDE OF POLE/PEDESTAL AWAY FROM THE TRAVELED WAY.
4. CARE SHALL BE TAKEN DURING CONSTRUCTION TO ACCOMMODATE ANY UNDERGROUND STRUCTURES ENCOUNTERED (VAULTS, MANHOLES, CONDUITS, ETC.).
5. A MINIMUM DISTANCE OF 3 FEET FROM CURB FACE TO POLE/PEDESTAL CENTERLINE IS DESIRABLE, BUT MAY BE CHANGED FOR THE ABOVE MENTIONED ACCOMMODATION, UPON CONSULTING WITH THE DESIGNING TRAFFIC ENGINEER.
6. TACTILE ARROW FOR APS PUSHBUTTONS SHALL BE ALIGNED PARALLEL TO THE DIRECTION OF TRAVEL ON THE ASSOCIATED CROSSWALK.







RETROREFLECTIVE
R3-2
36"X36"
(2 REQUIRED)
(A)

CONSULTANT FIRM NAME/ ADDRESS	CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC SAFETY
CiorbaGroup 8725 W. Higgins Road, Suite 600 | Chicago, IL 60631 | P 773.775.4009 | www.ciorba.com	TRAFFIC SIGNAL REQUIREMENT PLAN LEAVITT ST AT VAN BUREN ST
DESIGNED BY: DAN JOHNSON	REVIEWED BY: TRAFFIC ENGINEER
APPROVED BY: JOSEPH VONDRA	APPROVED BY: TRAFFIC ENGINEER
DATE: 11/8/2024	DATE: | SCALE: 1"=20' | SHEET 1 OF 1

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CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = untitled	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LEAVITT STREET TEMPORARY TRAFFIC SIGNAL REQUIREMENTS	F.A.I. RTE. 290	SECTION 2021-120-BR	COUNTY COOK	TOTAL SHEETS 178	SHEET NO. 45
		DRAWN - DTJ	REVISED -							
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -			CONTRACT NO. 62P43				
	PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -		SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

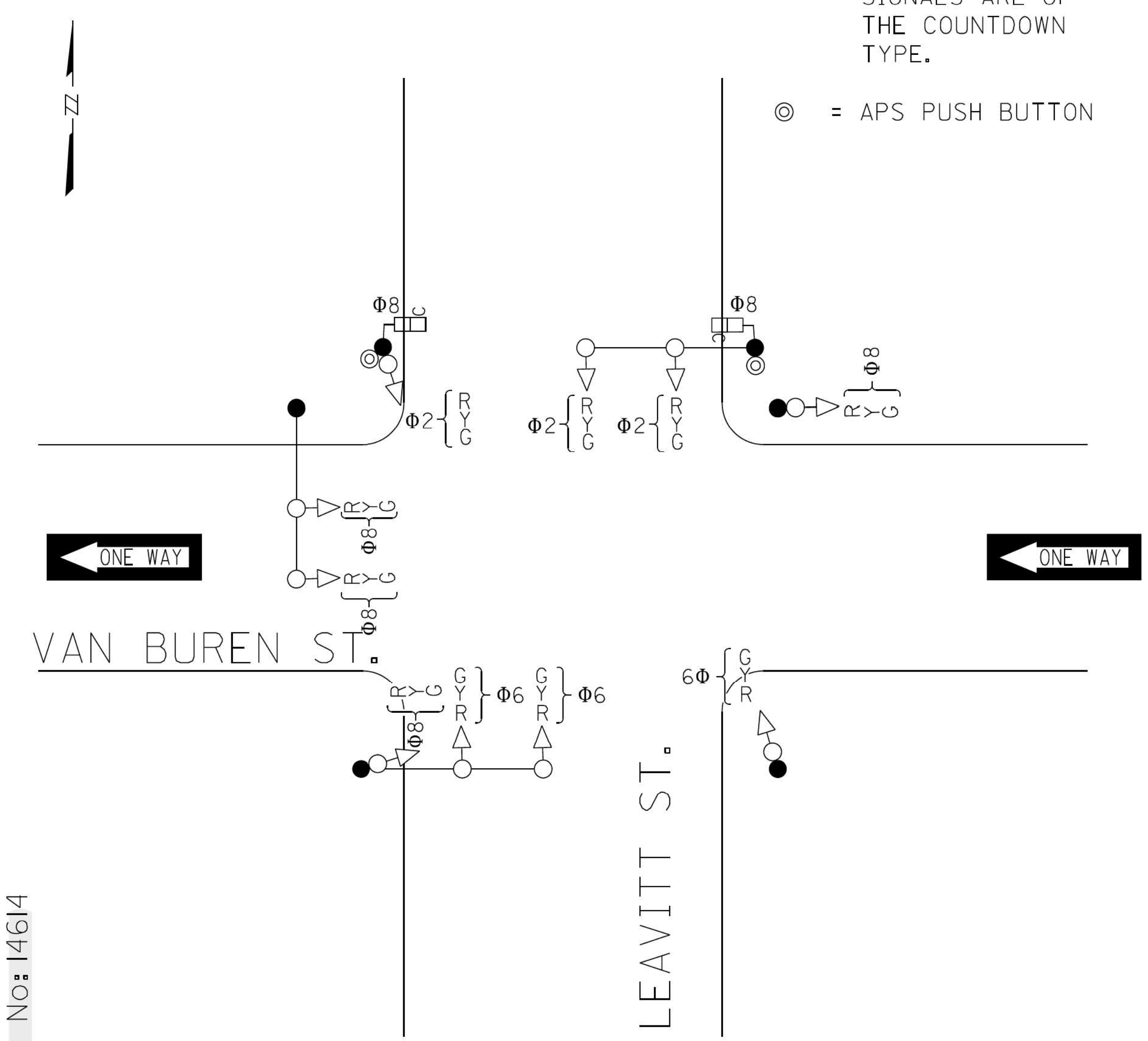
S. LEAVITT STREET AT W. VAN BUREN STREET

CONSULTANT FIRM NAME/ ADDRESS	300 S./2100 W.
CiorbaGroup, 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631, P 773.775.4009 | www.ciorba.com	DESIGNED BY: TRAFFIC ENGINEER
DESIGNED BY: VANESSA ZALDIVAR	REVIEWED BY: TRAFFIC ENGINEER
APPROVED BY: JOSEPH VONDRA	APPROVED BY: TRAFFIC ENGINEER
DATE: 1/9/2025	DATE:
SHEET: 1 OF 1	SENT: / INSTALLED:

DIAL	CYCLE LENGTH	OFFSET	TIMES OF OPERATION	FLASH OPERATION
1	65″	0″	ALL OTHER TIMES	RΦ2, RΦ6, RΦ8,
2	65″	0″	6:00 AM TO 10:00 AM MONDAY - FRIDAY	WALK/DON'T WALK OFF
3	65″	0″	3:00 PM TO 7:00 PM MONDAY - FRIDAY	
4				

C = ALL PEDESTRIAN SIGNALS ARE OF THE COUNTDOWN TYPE.

◎ = APS PUSH BUTTON



DEO Drwg No: 14614

S. LEAVITT ST & W. VANBUREN ST

DIAL 1

	PHASE							
PHASE NUMBER	1	2	3	4	5	6	7	8
DIRECTION	SBLT	NB	WBLT	EB (PED)	NBLT	SB	EBLT	WB
MIN GREEN								
VEHICLE EXT.								
MAX GREEN		20				20		34
TRAILING GREEN								
YELLOW CHANGE		3		3		3		3
RED CLEARANCE		1		1		1		1
WALK		17		26		17		26
PED CLEARANCE		11		11		11		11
SPLITS		24		41		24		41
SEQUENCE								
ADVANCE PED(LPI)				3				3
HOLDING PED(LAG PED)								
RECALL		MAX		MAX		MAX		MAX
DET. NON-LOCK								
FORCE MODE	N/A							

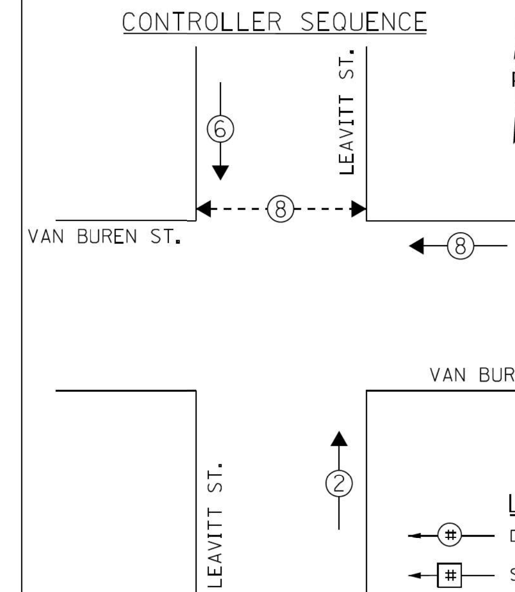
DIAL 2

	PHASE							
PHASE NUMBER	1	2	3	4	5	6	7	8
DIRECTION	SBLT	NB	WBLT	EB (PED)	NBLT	SB	EBLT	WB
MIN GREEN								
VEHICLE EXT.								
MAX GREEN		27				27		27
TRAILING GREEN								
YELLOW CHANGE		3		3		3		3
RED CLEARANCE		1		1		1		1
WALK		23		19		23		19
PED CLEARANCE		11		11		11		11
SPLITS		31		34		31		34
SEQUENCE								
ADVANCE PED(LPI)				3				3
HOLDING PED(LAG PED)								
RECALL		MAX		MAX		MAX		MAX
DET. NON-LOCK								
FORCE MODE	N/A							

DIAL 3

	PHASE							
PHASE NUMBER	1	2	3	4	5	6	7	8
DIRECTION	SBLT	NB	WBLT	EB (PED)	NBLT	SB	EBLT	WB
MIN GREEN								
VEHICLE EXT.								
MAX GREEN		20				20		34
TRAILING GREEN								
YELLOW CHANGE		3		3		3		3
RED CLEARANCE		1		1		1		1
WALK		17		26		17		26
PED CLEARANCE		11		11		11		11
SPLITS		24		41		24		41
SEQUENCE								
ADVANCE PED(LPI)				3				3
HOLDING PED(LAG PED)								
RECALL		MAX		MAX		MAX		MAX
DET. NON-LOCK								
FORCE MODE	N/A							

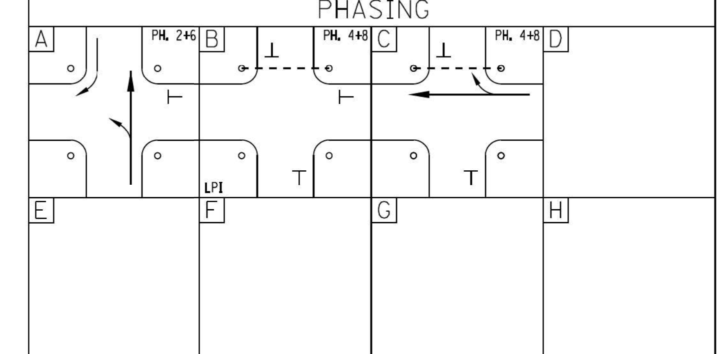
CONTROLLER SEQUENCE

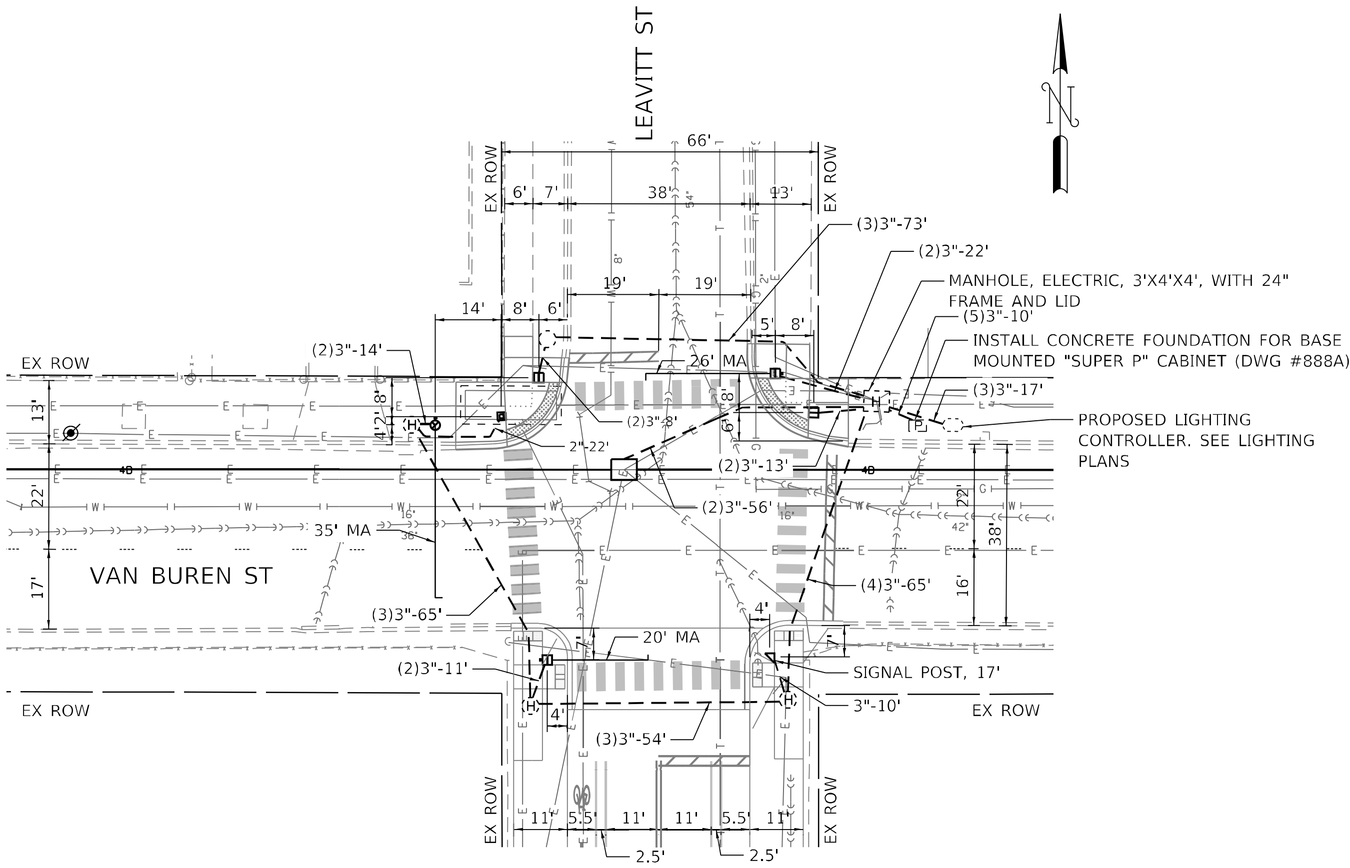


LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL OVERLAP
- PEDESTRIAN PHASE
- # NUMBER REFERS TO ASSOCIATED PHASE
- * COORDINATED PHASE

PHASING





FOUNDATION AND CONDUIT PLAN

SCALE 1"=20'

NOTES:

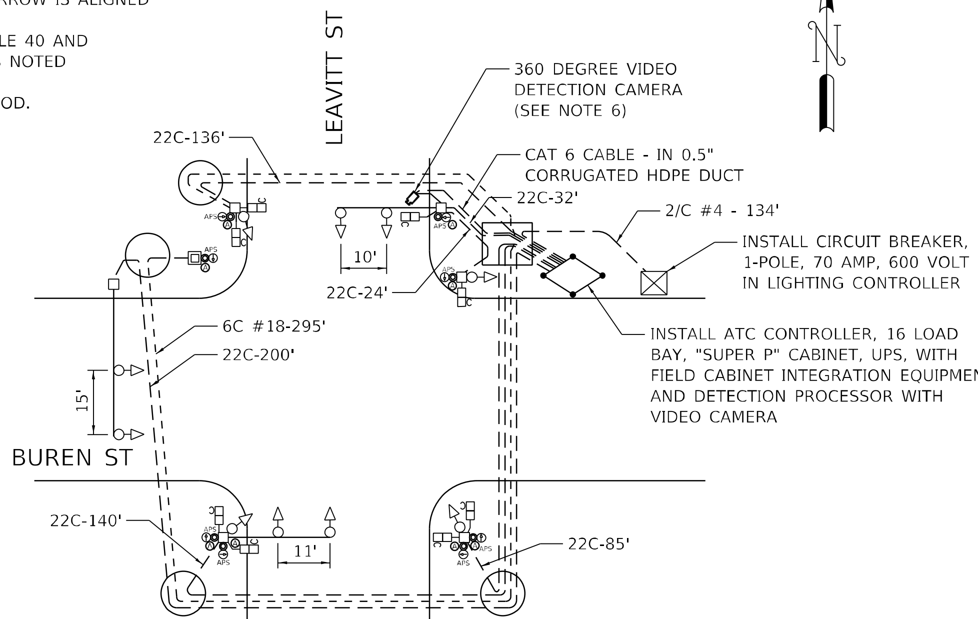
1. SEE STANDARD DRAWING 826 FOR CDOT TRAFFIC SIGNAL AND LIGHTING SYMBOLS.
2. CLEAN ALL EXISTING HANDHOLES/MANHOLES.
3. ROD AND CLEAN ALL EXISTING CONDUITS TO BE REUSED.
4. TEMPORARILY CONNECT ALL SIGNALS WITH AERIAL HARNESS CABLE (8C#16) DURING REMOVAL OF EXISTING CABLE AND INSTALLATION OF NEW CABLE.
5. TRAFFIC SIGNAL HEADS MOUNTED ON MAST ARMS SHALL BE A MINIMUM OF 15 FEET ABOVE THE TRAVELED ROADWAY WHEN MEASURED TO THE BOTTOM OF THE SIGNAL HOUSING.
6. THE LOCATION OF THE 360 DEGREE VIDEO DETECTION CAMERA SHALL BE CONFIRMED BY CDOT DEO.
7. IF TWO ACCESSIBLE PEDESTRIAN PUSHBUTTONS ARE PLACED LESS THAN 10 FEET APART OR PLACED ON THE SAME POLE, THE AUDIBLE WALK INDICATION SHALL BE A SPEECH WALK MESSAGE.
8. APS PUSH-BUTTONS SHALL BE INSTALLED SO THE TACTILE ARROW IS ALIGNED PARALLEL TO THE DIRECTION OF TRAVEL.
9. CONDUIT UNDER SIDEWALK OR PARKWAY SHALL BE SCHEDULE 40 AND CONDUIT UNDER PAVEMENT SHALL BE SCHEDULE 80 UNLESS NOTED OTHERWISE.
10. ALL CONDUIT SHALL BE INSTALLED VIA THE OPEN CUT METHOD.

LEGEND

- EXISTING TRAFFIC SIGNAL HEAD
- PROPOSED TRAFFIC SIGNAL HEAD
- EXISTING COUNTDOWN PEDESTRIAN SIGNAL
- PROPOSED COUNTDOWN PEDESTRIAN SIGNAL
- PROPOSED PUSH BUTTON POST
- PROPOSED ACCESSIBLE PEDESTRIAN PUSH BUTTON (PUSH BUTTON ARROW SHOULD BE INSTALLED PER DIRECTIONS ON SIGNAL AND CABLE PLAN)
- PROPOSED 360 DEGREE VIDEO CAMERA

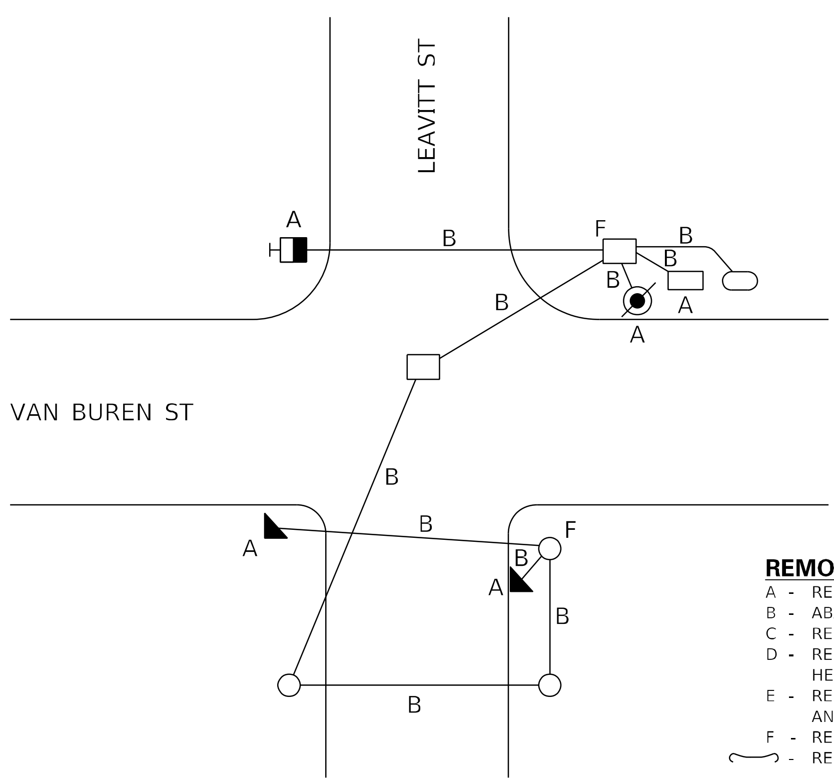
PGL NOTE:

MAINTAIN 18" VERTICAL EDGE TO EDGE SEPARATION FROM GAS MAIN. ALL TRAFFIC AND STREET LIGHTING FOUNDATIONS MUST MAINTAIN 3FT HORIZONTAL EDGE TO EDGE SEPARATION FROM GAS FACILITIES HAND DIG OR NON-INVASIVE EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS FACILITIES PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3' HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS FACILITIES WITH DIAMETERS OF 16" OR SMALLER, AND 5FT EDGE TO EDGE CLEARANCE FOR GAS FACILITIES WITH DIAMETERS 18" AND LARGER. MAINTAIN A MINIMUM OF 18 EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING GAS FACILITIES 16" OR LESS IN DIAMETER, AND 24" EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING 18" AND LARGER DIAMETER GAS FACILITIES.



SIGNAL AND CABLE PLAN

NO SCALE

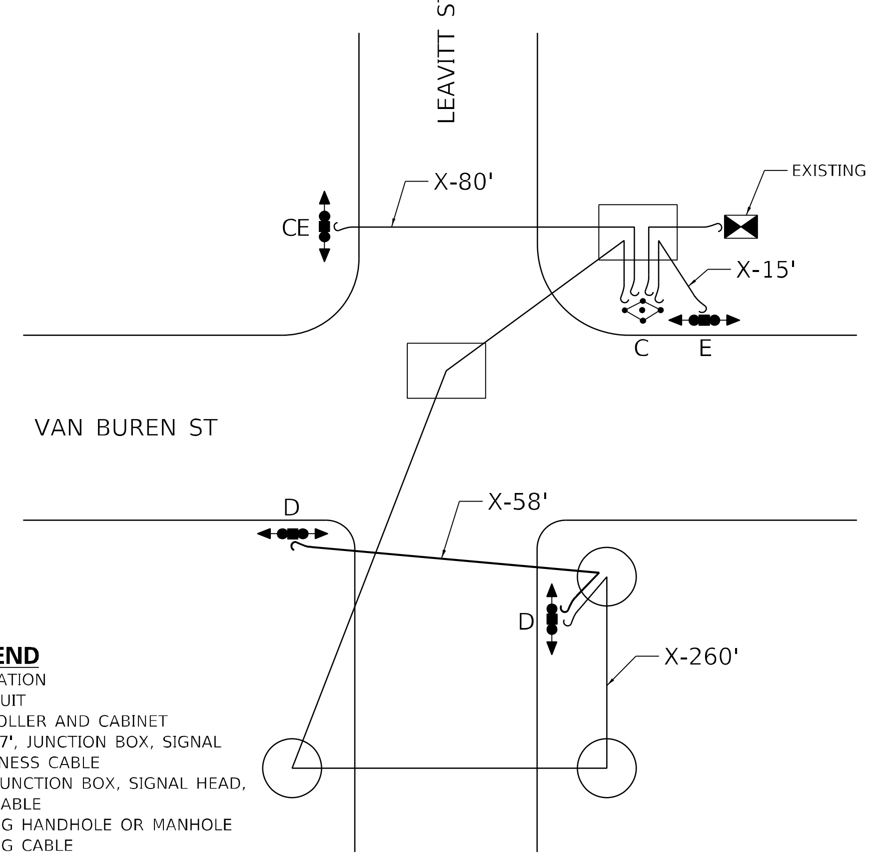


UNDERGROUND REMOVAL PLAN

NO SCALE

REMOVAL LEGEND

A - REMOVE FOUNDATION
B - ABANDON CONDUIT
C - REMOVE CONTROLLER AND CABINET
D - REMOVE POST 17', JUNCTION BOX, SIGNAL HEAD, AND HARNESS CABLE
E - REMOVE POLE, JUNCTION BOX, SIGNAL HEAD, AND HARNESS CABLE
F - REMOVE EXISTING HANDHOLE OR MANHOLE
~ - REMOVE EXISTING CABLE



SIGNAL AND CABLE REMOVAL PLAN

NO SCALE

R10-2
(A)

A	
DATE	REVISION

TRAFFIC CONTROL SIGNALS
LEAVITT ST. & VAN BUREN ST.

CITY OF CHICAGO
DEPT. OF TRANSPORTATION
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN: DTJ	CHIEF DRAFTSMAN:	ENGINEER: DTJ
SUPERVISING ENGINEER: JMV	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		14614
GEN'L SUPT. OF CONSTRUCTION:		
DEPUTY COMMISSIONER:		
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P 773.775.4009 | www.ciorba.com

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	DRAWN - DTJ	REVISED -
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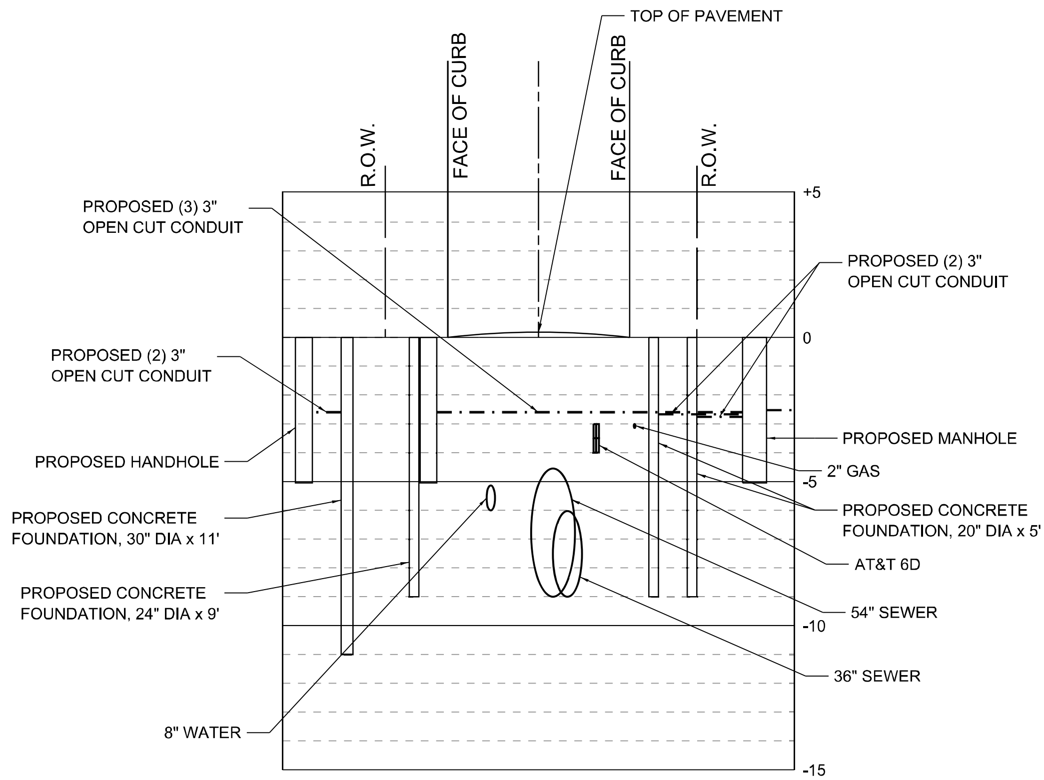
PLOT DATE = 12/4/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

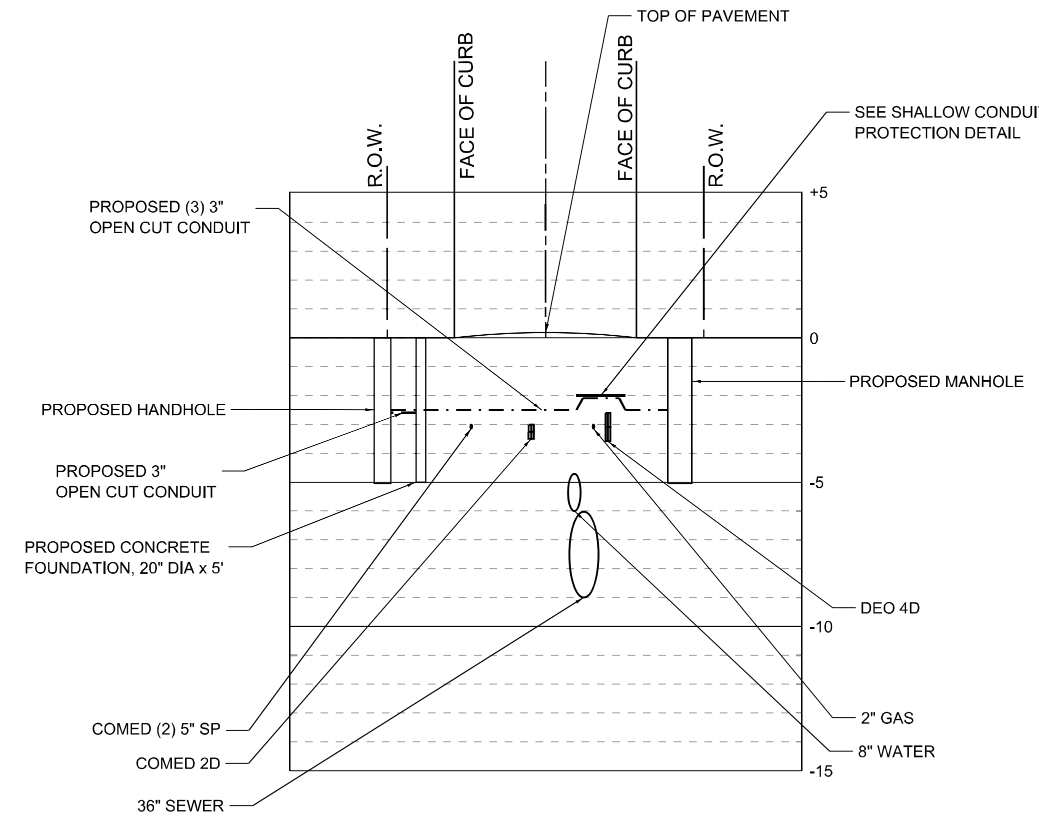
LEAVITT STREET
CDOT TRAFFIC SIGNAL PLAN

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

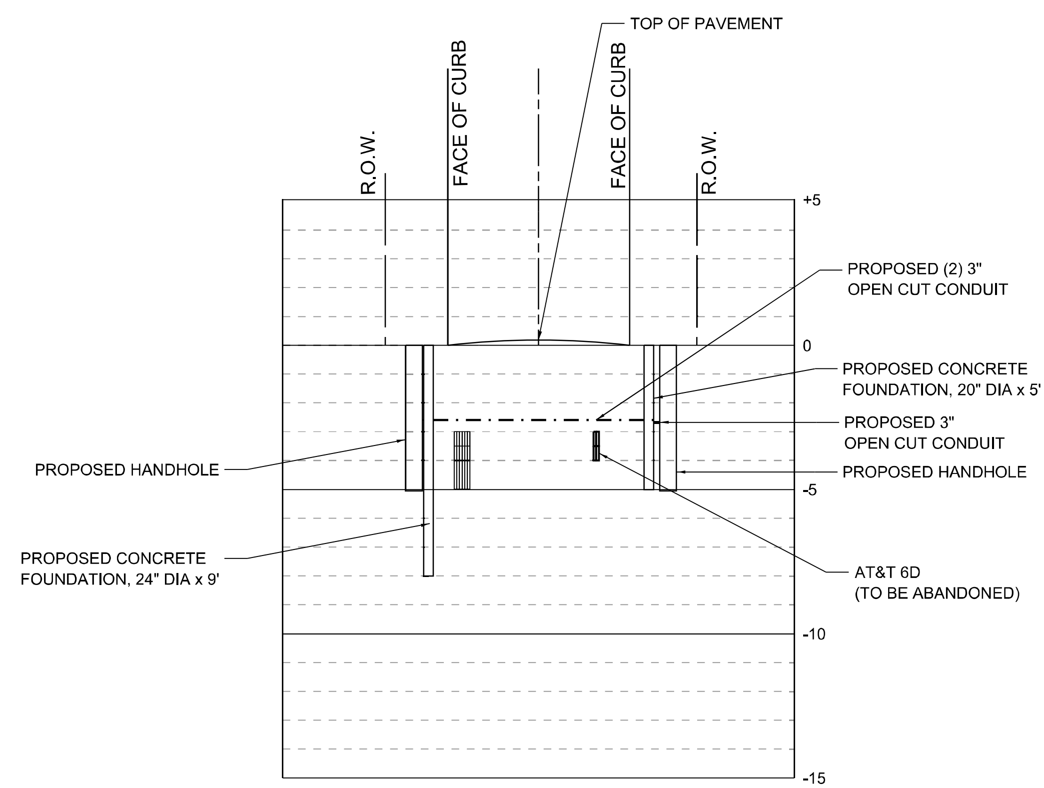
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	46
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



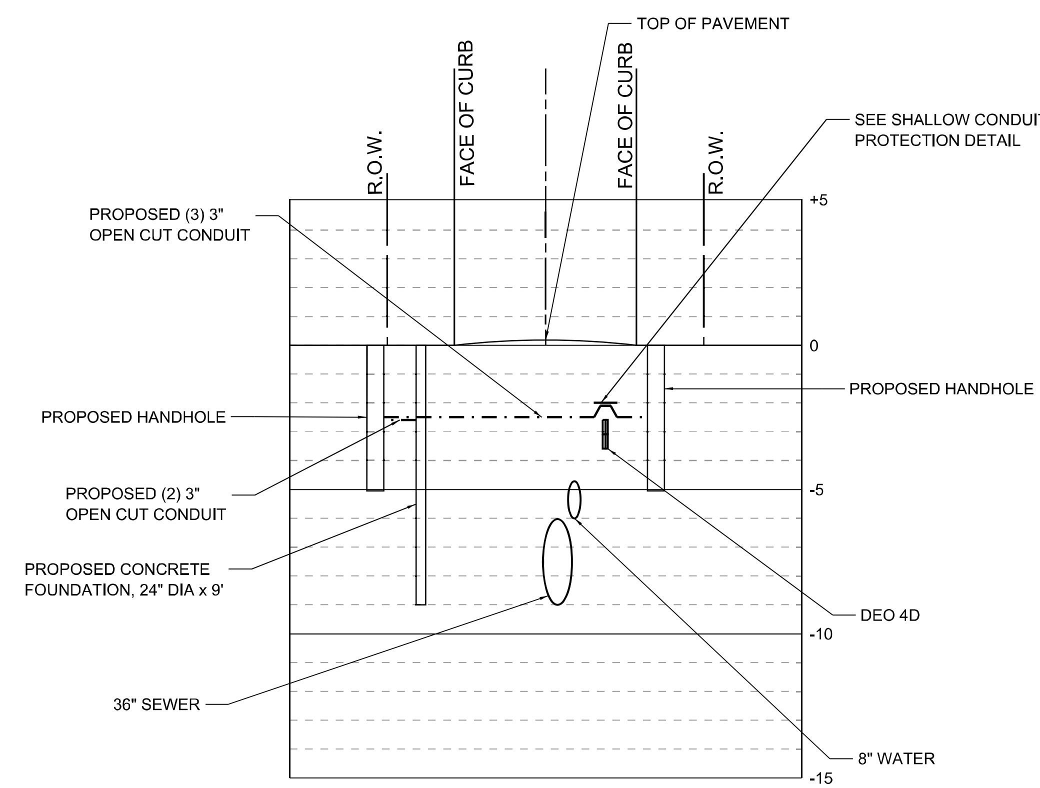
PROPOSED CONDUIT PROFILE ACROSS
LEAVITT STREET LOOKING NORTH
8' NORTH OF THE NORTH ROW
OF VAN BUREN STREET



PROPOSED CONDUIT PROFILE ACROSS
VAN BUREN STREET LOOKING WEST
1' EAST OF THE EAST ROW
OF LEAVITT STREET

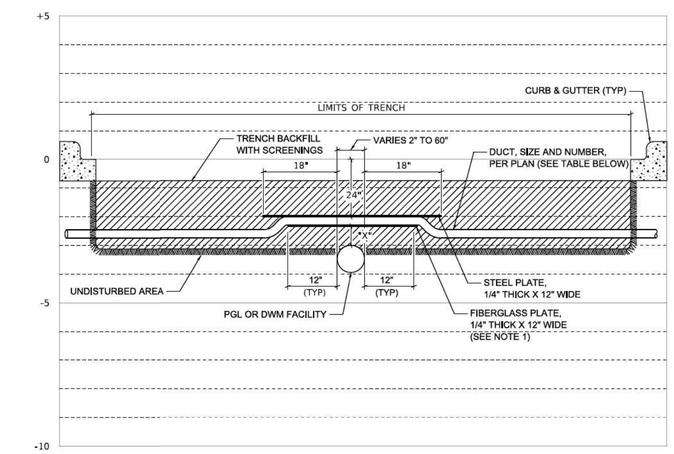


PROPOSED CONDUIT PROFILE ACROSS
LEAVITT STREET LOOKING NORTH
2' SOUTH OF THE SOUTH ROW
OF VAN BUREN STREET

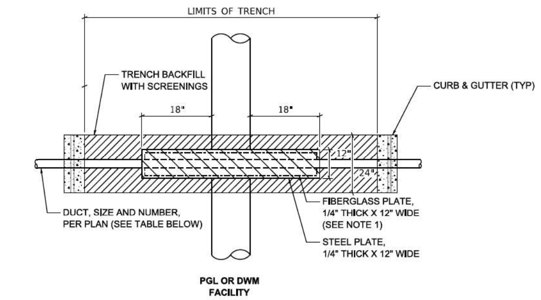


PROPOSED CONDUIT PROFILE ACROSS
VAN BUREN STREET LOOKING WEST
6' WEST OF THE WEST ROW
OF LEAVITT STREET

SHALLOW CONDUIT PROTECTION DETAIL



PROFILE VIEW
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

SIZE	OUTSIDE DIAMETER	VERTICAL CLEARANCE (X) CONDUIT OVER METALLIC GAS MAINS (TWO PLATE)	VERTICAL CLEARANCE (X) CONDUIT OVER PLASTIC GAS MAINS & DWM MAINS (ONE PLATE)
1-1/4"	1.66"	9.84"	10.09"
2"	2.375"	9.13"	9.38"
3"	3.5"	8"	8.25"

NOTES:

1. FIBERGLASS PLATE TO BE PROVIDED ONLY WHEN CROSSING METALLIC GAS MAINS OF ANY SIZE.

2. INSTALLATION PROCEDURE:
   A. ALL WORK SHALL BE COMPLETED IN THE PRESENCE OF A CDOT AND UTILITY INSPECTOR.
   B. EXPOSE UTILITY BY HAND DIGGING AND/OR VACUUM EXCAVATOR.
   C. BACKFILL UTILITY AS REQUIRED.
   D. INSTALL FIBERGLASS PLATE (IF REQUIRED).
   E. INSTALL DUCT.
   F. BACKFILL TO TOP OF DUCT.
   G. INSTALL STEEL PLATE.
   H. BACKFILL TO BOTTOM OF PAVEMENT STRUCTURE.
   I. CONCRETE OR ASPHALT RESTORATION.
3. STEEL AND FIBERGLASS PLATE SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED CONDUIT.

A		
DATE	REVISION	

TRAFFIC CONTROL SIGNALS
LEAVITT ST. & VAN BUREN ST.

CITY OF CHICAGO
DEPT. OF TRANSPORTATION
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN: DTJ	CHIEF DRAFTSMAN:	ENGINEER: DTJ
SUPERVISING ENGINEER: JMV	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF CONSTRUCTION:		14614
DEPUTY COMMISSIONER:		
	SCALE: AS NOTED	DATE: 12/3/2024

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USER NAME = untitled	DESIGNED - DTJ	REVISED -	
	DRAWN - DTJ	REVISED -	
PLOT SCALE = 40.0291 ' / in.	CHECKED - JMV	REVISED -	
PLOT DATE = 12/3/2024	DATE - 12/3/2024	REVISED -	

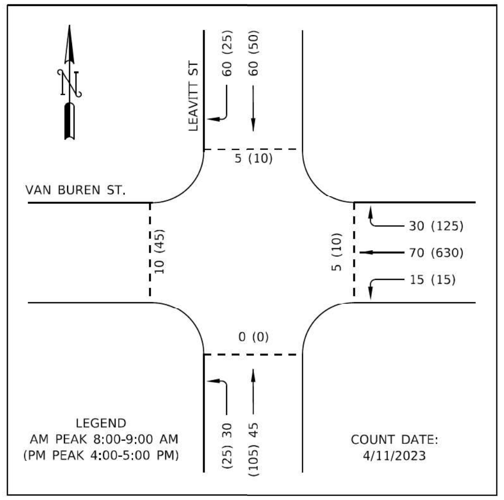
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

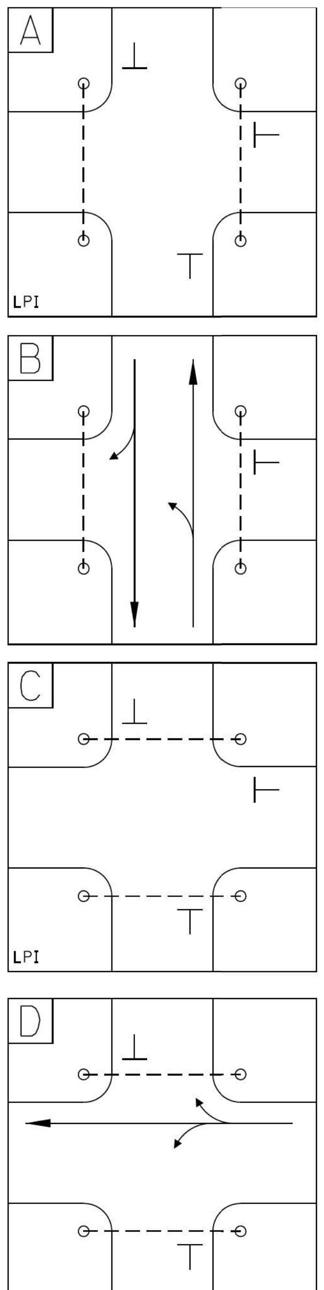
LEAVITT STREET
CDOT TRAFFIC CONDUIT PROFILES

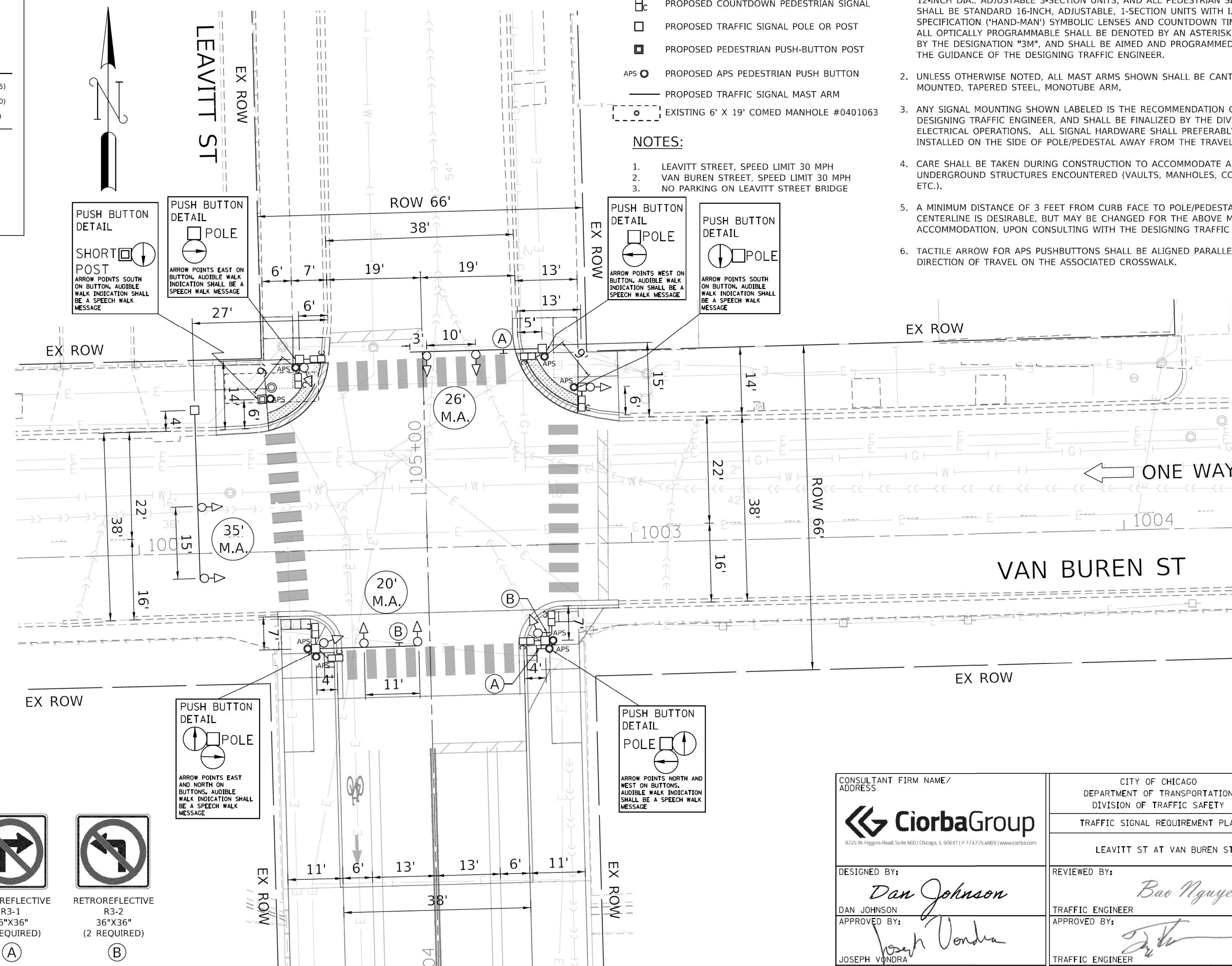
SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	46A
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL REQUIREMENTS







RETROREFLECTIVE
R3-1
36"X36"
(2 REQUIRED)
(A)

RETROREFLECTIVE
R3-2
36"X36"
(2 REQUIRED)
(B)

LEGEND

- PROPOSED TRAFFIC SIGNAL HEAD
- PROPOSED COUNTDOWN PEDESTRIAN SIGNAL
- PROPOSED TRAFFIC SIGNAL POLE OR POST
- PROPOSED PEDESTRIAN PUSH-BUTTON POST
- APS: PROPOSED APS PEDESTRIAN PUSH BUTTON
- PROPOSED TRAFFIC SIGNAL MAST ARM
- EXISTING 6' X 19' COMED MANHOLE #0401063

NOTES:

1. LEAVITT STREET, SPEED LIMIT 30 MPH
2. VAN BUREN STREET, SPEED LIMIT 30 MPH
3. NO PARKING ON LEAVITT STREET BRIDGE

GENERAL NOTES, TRAFFIC SIGNAL REQUIREMENTS

1. UNLESS OTHERWISE NOTED ALL VEHICULAR SIGNALS SHALL BE STANDARD 12-INCH DIA., ADJUSTABLE 3-SECTION UNITS, AND ALL PEDESTRIAN SIGNALS SHALL BE STANDARD 16-INCH, ADJUSTABLE, 1-SECTION UNITS WITH I.T.E.-SPECIFICATION ('HAND-MAN') SYMBOLIC LENSES AND COUNTDOWN TIMERS. ALL OPTICALLY PROGRAMMABLE SHALL BE DENOTED BY AN ASTERISK (*), OR BY THE DESIGNATION "3M", AND SHALL BE AIMED AND PROGRAMMED WITH THE GUIDANCE OF THE DESIGNING TRAFFIC ENGINEER.
2. UNLESS OTHERWISE NOTED, ALL MAST ARMS SHOWN SHALL BE CANTILEVER MOUNTED, TAPERED STEEL, MONOTUBE ARM.
3. ANY SIGNAL MOUNTING SHOWN LABELED IS THE RECOMMENDATION OF THE DESIGNING TRAFFIC ENGINEER, AND SHALL BE FINALIZED BY THE DIVISION OF ELECTRICAL OPERATIONS. ALL SIGNAL HARDWARE SHALL PREFERABLY BE INSTALLED ON THE SIDE OF POLE/PEDESTAL AWAY FROM THE TRAVELED WAY.
4. CARE SHALL BE TAKEN DURING CONSTRUCTION TO ACCOMMODATE ANY UNDERGROUND STRUCTURES ENCOUNTERED (VAULTS, MANHOLES, CONDUITS, ETC.).
5. A MINIMUM DISTANCE OF 3 FEET FROM CURB FACE TO POLE/PEDESTAL CENTERLINE IS DESIRABLE, BUT MAY BE CHANGED FOR THE ABOVE MENTIONED ACCOMMODATION, UPON CONSULTING WITH THE DESIGNING TRAFFIC ENGINEER.
6. TACTILE ARROW FOR APS PUSHBUTTONS SHALL BE ALIGNED PARALLEL TO THE DIRECTION OF TRAVEL ON THE ASSOCIATED CROSSWALK.

CONSULTANT FIRM NAME/ ADDRESS	CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF TRAFFIC SAFETY
CiorbaGroup 8725 W. Higgins Road, Suite 600 | Chicago, IL 60631 | P 773.775.4009 | www.ciorba.com	TRAFFIC SIGNAL REQUIREMENT PLAN
	LEAVITT ST AT VAN BUREN ST
DESIGNED BY: Dan Johnson DAN JOHNSON	REVIEWED BY: Bao Nguyen TRAFFIC ENGINEER
APPROVED BY: Joseph Vondra JOSEPH VONDRA	APPROVED BY: TRAFFIC ENGINEER
DATE: 8/7/2023	DATE: 8/11/2023 SCALE: 1"=20' SHEET 1 OF 1

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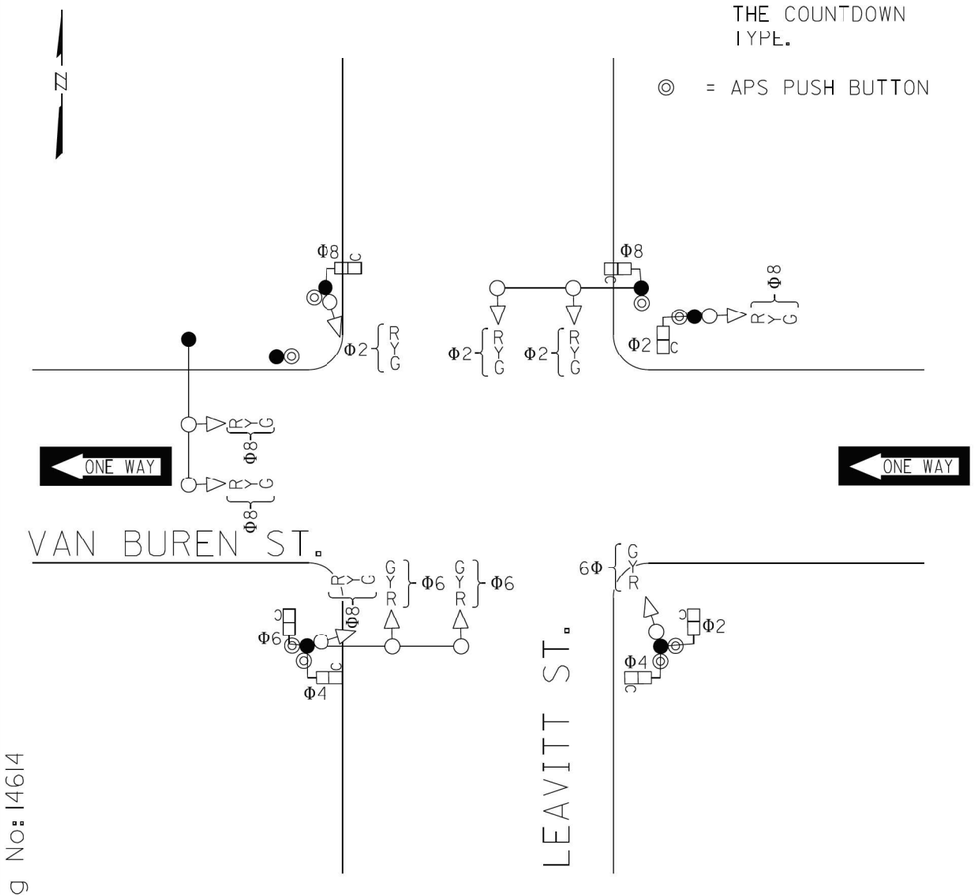
CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = untitled	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LEAVITT STREET PERMANENT TRAFFIC SIGNAL REQUIREMENTS
		DRAWN - DTJ	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -		
	PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -		SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	47
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

DIAL	CYCLE LENGTH	OFFSET	TIMES OF OPERATION	FLASH OPERATION
1	65''	0''	ALL OTHER TIMES	RΦ2, RΦ6, RΦ8, WALK/DON'T WALK OFF
2	65''	0''	6:00 AM TO 10:00 AM MONDAY - FRIDAY	
3	65''	0''	3:00 PM TO 7:00 PM MONDAY - FRIDAY	
4				

C = ALL PEDESTRIAN SIGNALS ARE OF THE COUNTDOWN TYPE.

◎ = APS PUSH BUTTON



DEO Drwg No: 14614

S. LEAVITT ST & W. VANBUREN ST

DIAL 1

	PHASE							
PHASE NUMBER	1	2	3	4	5	6	7	8
DIRECTION	SBLT	NB	WBLT	EB (PED)	NBLT	SB	EBLT	WB
MIN GREEN								
VEHICLE EXT.								
MAX GREEN		26				26		25
TRAILING GREEN								
YELLOW CHANGE		3		3		3		3
RED CLEARANCE		1		1		1		1
WALK		17		16		17		16
PED CLEARANCE		11		11		11		11
SPLITS		33		32		33		32
SEQUENCE								
ADVANCE PED(LPI)		3		3		3		3
HOLDING PED(LAG PED)								
RECALL		MAX		MAX		MAX		MAX
DET. NON-LOCK								
FORCE MODE	N/A							

DIAL 2

	PHASE							
PHASE NUMBER	1	2	3	4	5	6	7	8
DIRECTION	SBLT	NB	WBLT	EB (PED)	NBLT	SB	EBLT	WB
MIN GREEN								
VEHICLE EXT.								
MAX GREEN		32				32		19
TRAILING GREEN								
YELLOW CHANGE		3		3		3		3
RED CLEARANCE		1		1		1		1
WALK		23		10		23		10
PED CLEARANCE		11		11		11		11
SPLITS		39		26		39		26
SEQUENCE								
ADVANCE PED(LPI)		3		3		3		3
HOLDING PED(LAG PED)								
RECALL		MAX		MAX		MAX		MAX
DET. NON-LOCK								
FORCE MODE	N/A							

DIAL 3

	PHASE							
PHASE NUMBER	1	2	3	4	5	6	7	8
DIRECTION	SBLT	NB	WBLT	EB (PED)	NBLT	SB	EBLT	WB
MIN GREEN								
VEHICLE EXT.								
MAX GREEN		26				26		25
TRAILING GREEN								
YELLOW CHANGE		3		3		3		3
RED CLEARANCE		1		1		1		1
WALK		17		16		17		16
PED CLEARANCE		11		11		11		11
SPLITS		33		32		33		32
SEQUENCE								
ADVANCE PED(LPI)		3		3		3		3
HOLDING PED(LAG PED)								
RECALL		MAX		MAX		MAX		MAX
DET. NON-LOCK								
FORCE MODE	N/A							

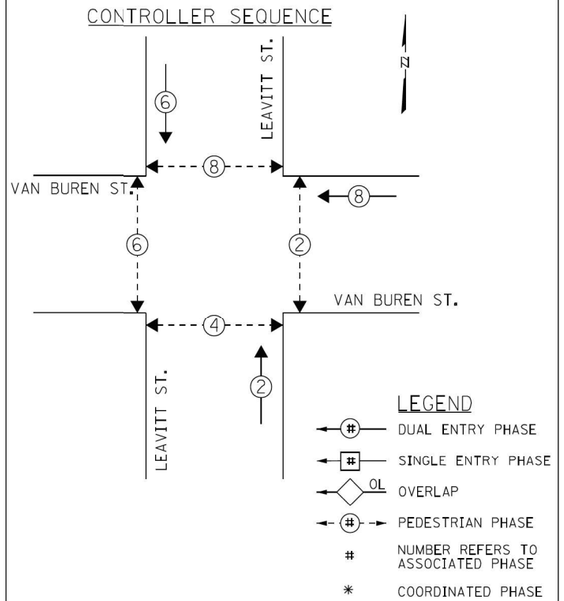
CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRAFFIC SAFETY

TRAFFIC SIGNAL TIMING SCHEDULE

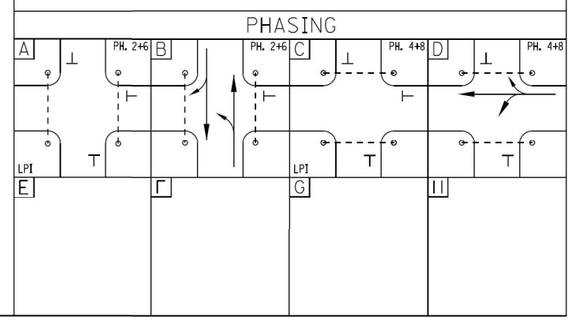
S. LEAVITT STREET AT W. VAN BUREN STREET

CONSULTANT FIRM NAME/ ADDRESS: CiorbaGroup, 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631, P 773.775.4009 | www.ciorba.com	300 S./2100 W.
DESIGNED BY: VANESSA ZALDIVAR	DESIGNED BY: TRAFFIC ENGINEER
APPROVED BY: JOSEPH VONDRA	REVIEWED BY: TRAFFIC ENGINEER
DATE: 11/7/2024	APPROVED BY: TRAFFIC ENGINEER
SHEET: 1 OF 1	DATE: SENT: INSTALLED:

CONTROLLER SEQUENCE



PHASING



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CiorbaGroup, 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631, P 773.775.4009 | www.ciorba.com	USER NAME = untitled	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - DTJ	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
	PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -	

LEAVITT STREET
PERMANENT TRAFFIC SIGNAL TIMING SCHEDULE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	48
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CHICAGO ELECTRICAL CODE, CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS (DEO) STANDARDS, AND THE APPLICABLE PROVISIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

2. ALL CITY OF CHICAGO STREET LIGHTING EQUIPMENT REMOVED AS PART OF THIS CONTRACT WILL REMAIN THE PROPERTY OF THE CITY AND SHALL BE DELIVERED TO A CITY FACILITY LOCATED WITHIN THE CITY LIMITS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, UNLESS NOTED OTHERWISE.

3. RECORD DRAWINGS SHOWING EXISTING STREET LIGHTING INSTALLATION AND CABINET LOCATIONS ARE AVAILABLE FOR THE CONTRACTOR'S INFORMATION AT THE OFFICES OF THE CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION, DIVISION OF ELECTRICAL OPERATIONS.

4. THE INSTALLATION OF ALL NEW ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE DONE IN SUCH A MANNER AS NOT TO DAMAGE THE EXISTING LANDSCAPE (TREES, BUSHES, ETC.) DURING THE PROGRESSION OF WORK. IF THE CONTRACTOR OBSERVES A CONFLICT WITH THE EXISTING LANDSCAPE, HE WILL STOP THE WORK AND IMMEDIATELY NOTIFY THE ENGINEER.

5. THE EXISTING STREET LIGHTING SYSTEM BEYOND THE CONSTRUCTION LIMITS SHALL REMAIN IN OPERATION FOR THE DURATION OF THIS PROJECT UNTIL SUCH TIME THAT THE NEW STREET LIGHING SYSTEM HAS BEEN INSTALLED, ENERGIZED, TESTED, ADJUSTED AND ACCEPTED BY THE CITY OF CHICAGO. THE BRIDGE LIGHTING SHALL NOT BE REQUIRED TO BE MAINTAINED DURING CONSTRUCTION DUE TO REPLACEMENT OF THE SUPERSTRUCTURE (DECK) AND A BRIDGE CLOSURE WILL BE IN EFFECT FOR THE CONSTRUCTION DURATION. THE COST OF THIS WORK SHALL BE INCLUDED AS PART OF THE MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO) PAY ITEM AND SEPARATE PAYMENT WILL NOT BE MADE.

6. WORK FOR STREET LIGHTING SYSTEM SHALL BE COMPLETED, APPROVED AND FULLY OPERATIONAL BEFORE A FINAL INSPECTION FOR THE PROJECT CAN BE SCHEDULED.

7. AT THE COMMENCEMENT OF CONTRACTOR ACTIVITIES, ELECTRICAL OR OTHERWISE, THE CONTRACTOR WILL BECOME RESPONSIBLE FOR THE PROPER OPERATION AND MAINTENANCE OF ALL EXISTING LIGHTING AND POWER SYSTEMS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

8. REMOVING OF EXISTING ELECTRICAL CABLES FEEDING EACH OF THE EXISTING LIGHTING/SIGNAL UNITS SHALL BE INCLUDED IN THE COST OF REMOVE EXISTING STREET LIGHTING EQUIPMENT AND SEPARATE PAYMENT WILL NOT BE MADE.

9. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL TEMPORARY ELECTRICAL EQUIPMENT CONNECTIONS AS REQUIRED TO MAINTAIN EXISTING LIGHTING CONTINUITY AS THE PROPOSED WORK FOR INSTALLATION AND REMOVAL OF EXISTING LIGHTING EQUIPMENT PROGRESSES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO) ITEM.

10. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION OR EXISTING FOUNDATION, THE CONTRACTOR MUST NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE APPROPRIATE UNDERGROUND WORK PAY ITEM.

11. THE CONTRACTOR SHALL IDENTIFY EACH ELECTRIC CABLE ASSEMBLY FOR STREET LIGHTING. CABLES SHALL BE TAGGED IN ALL HANDHOLES, CONTROLLER CABINETS AND LIGHT POLE BASES.

12. CONDUIT STUBOUTS IN EQUIPMENT FOUNDATIONS WILL NOT BE MEASURED FOR PAYMENT, BUT WILL BE CONSIDERED AS PART OF THE APPLICABLE FOUNDATION PAY ITEM. REFER TO SPECIFICATIONS.

13. THE ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS SHALL BE RUN CONTINUOUSLY WITHOUT ANY UNDERGROUND SPLICES, JUNCTON BOX SPLICES, PULL BOX SPLICES, HANDHOLE SPLICES OR MANHOLE SPLICES. SPLICES WILL BE PERMITTED ONLY IN THE BASE OF THE PROPOSED LIGHT POLES AND CONTROLLERS, UNLESS NOTED OTHERWISE.

14. ALL PROPOSED CONDUITS, JUNCTION BOXES, AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATIONS IN THE FIELD SHALL BE APPROVED BY THE ENGINEER.

15. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY ELEMENTS OF STREET LIGHTING SYSTEM.

SUMMARY OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	261
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	36
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	520
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	468
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	92
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	1,060
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	585
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	8
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	80
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2/0	FOOT	630
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 3/0	FOOT	3,150
LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP	EACH	1
LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8 5/8" X 7'	EACH	1
REMOVAL OF POLE FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	9
REMOVE EXISTING HANDHOLE	EACH	2
CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	3
CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	1,960
CONDUIT RISER, GALVANIZED STEEL	EACH	4
MANHOLE, ELECTRIC, 3' X 4' X 4', WITH 24" FRAME AND LID	EACH	2
ELECTRIC MANHOLE TO BE ADJUSTED	EACH	2
ELECTRIC SERVICE INSTALLATION (SPECIAL)	EACH	2
LIGHT POLE, ALUMINUM, WITH MAST ARM, INSTALL ONLY	EACH	5
MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1
REMOVE EXISTING STREET LIGHTING EQUIPMENT	EACH	1
TRENCH AND BACKFILL WITH SCREENINGS	FOOT	1,377
LUMINAIRE, LED, ROADWAY	EACH	6
STEEL LUMINAIRE MAST ARM ASSEMBLY 12 FT	EACH	6
REMOVE EMBEDDED POLE	EACH	1

PROPOSED / PRESENT

- SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
- SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
- SIGNAL OPTICALLY PROGRAMMED
- SIGNAL, PEDESTRIAN, COUNTDOWN
- SIGNAL, PEDESTRIAN, DON'T WALK/WALK
- SIGNAL FACE ARROW, 12" COLOR AS NOTED
- SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
- PUSH BUTTON, PEDESTRIAN
- SIGN,ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
- MAST ARM, MONOTUBE, STEEL. SIZE AS INDICATED (SEE DWG. #870)
- MAST ARM, TRUSS, ALUMINUM. SIZE AS INDICATED
- CONTROLLER, TRAFFIC SIGNAL. PEDESTAL OR BASE MOUNTED AS INDICATED
- CONTROLLER, STREET LIGHTING. PEDESTAL OR BASE MOUNTED. (DWG. 876 or 880)
- CONTROLLER,STREET LIGHTING. POLE MOUNTED (DWG. #11940)
- POLE, WOOD. COMMONWEALTH EDISON COMPANY, SERVICE
- POLE, CITY STEEL, ANCHOR BASE, 34'6",7 GA. 10" DI A. AND 15"B.C. 24"X7' FND. W/1 ¼" ANCHOR RODS DRG. #818.
- POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA. 10" DIA. AND 15" B.C. 24"X9' FND. W/1 ¼" ANCHOR RODS DRG. #818 (16',20'or 26'M.A.)
- POLE, CITY STEEL, ANCHOR BASE, 34"-6", 3GA., 11" DIA. AND 17 ¼" B.C. 30"X9' FND. W/1 ¼" ANCHOR RODS DRG. #816. (30' M.A.)
- POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA. 12 ½" DIA. AND 16 ½"B.C. 30"X11' FND. W/1 ½" ANCHOR RODS DRG.#817. (35',40'or 44' M.A.)
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA. 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17 ¼" B. C. ON 30"X9' FND. W/ 11/4" ANCHOR RODS DRG. #816.
- POLE, CITY STEEL, ANCHOR BASE, 20',27'-6",29'-6", 7 GA. WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
- POLE,CITY STEEL, ANCHOR BASE, 20',27'-6",29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DWG.#719.
- POLE, CITY STEEL, ANCHOR BASE, 20',27'-6", 29'-6" 7 GA., AND ALUMINUM RESIDENTIAL DAVIT,AND FND. WITH 10" B.C. AND 1" ANCHOR RODSDWG#565 (CONCRETE) OR DWG.#936 (HELIX).
- POLE, CITY STEEL, ANCHOR BASE, 20',27'-6",29'-6" 3 GA.,AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DWG. #565 (CONCRETE) OR DWG.#936 (HELIX).
- POLE , CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11½" B.C. AND 1" ANCHOR RODS DWG. #753.
- POLE, CITY STEEL, ANCHR BASE, 32'-6", 3 GA., AND FND. WITH 11½" B.C. AND 1" ANCHOR RODS DWG. #753.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C.-24"X7' WITH 1" ANCHOR RODS DRG. #691.
- POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"X 7' WITH 1" ANCHOR RODS DWG. #691.
- POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', or 30' ON FND.WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
- POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
- POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
- POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
- COLUMN,ELEVATED STRUCTURE
- POLE, WOOD. (SIZE AS NOTED)
- POLE, FOUNDATION WITH ELBOWS AS INDICATED.(SIZE AS NOTED)
- POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS
- RESIDENTIAL STREET LIGHTING CONTROLLER

PROPOSED / PRESENT

- MANHOLE, 3'X4'X4' 24" F & C (DWG.#730) (A) 30" F & C (DWG#729) (B)
- MANHOLE, 4'X6'X6' 24" F & C (DWG.#732) (C) 30" F & C (DWG#733) (D)
- HANDHOLE, HEAVY DUTY, 36" I.D. (DWG.#866) 24" F & C (E). (DWG#871) 30" F & C (F)
- HANDHOLE, CIRCULAR WITH 24"FRAME & COVER,30"I.D. (#867) (G)
- FOUNDATION, CONTROLLER OR PEDESTAL, 13" B.C.,20"X5' (DWG. #709)
- FOUNDATION, TRAFFIC CONTROLLER DWG. #854. F.A. TERMINAL FND. DWG. #11972
- FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
- FOUNDATION,CONTROLLER STREET LIGHT ,SPECIAL, 100A & 200A. (DWG.#876 & # 880)
- FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG.# 583 & #891)
- CONTROLLER,UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
- MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL.BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO PARK DISTRICT; CTA=C.T.A; S= SEWER
- JUNCTION BOX, IN PAVEMENT (DWG. #815)
- DETECTOR LOOP IN PAVEMENT
- CONDUIT or P.V.C., NUMBER,SIZE & TYPE. (AS NOTED)
- 2D — CONDUIT or P.V.C. ENCASED IN CONCRETE. (SECTION or NUMBER OF CONDUIT INDICATED
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 310W LAMP, 240V
- LUMINAIRE, H.P.S.V. 310W LAMP 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 150W LAMP, 240V
- LUMINAIRE, H.P.S.V. 150W LAMP, 120V
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, (FLOOD LIGHT)
- TERMINAL, CABINET F.A. & P.C.
- FIRE ALARM BOX, MOUNTED
- FIRE ALARM BOX, POLE MOUNTED
- PR — CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
- 2 — CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #4, 600 V. EPR. IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSRI, IN CONDUIT
- VII — CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
- X — CABLE, TRAFFIC SIGNAL, 10/C-#12 600V. EPR IN CONDUIT
- XIV — CABLE, TRAFFIC SIGNAL, 14/C-#14, 600V. EPR IN CONDUIT
- XIX — CABLE, TRAFFIC SIGNAL, 19/C-#12 600V, EPR IN CONDUIT
- 2N — CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
- 2NC — CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
- 3TC — CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED,IN CONDUIT
- 3NC — CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
- 2W — WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
- 3W — WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
- III — CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
- W FA — WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
- PR — CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
- 6 PR — CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
- 37 PR — CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
- DOWNLIGHT ASSEMBLY. (DWG. #850)
- LIGHT, TRAFFIC SAFETY ISLAND
- FLASHING BEACON & DOWNLIGHT

C.M.H. LUMINAIRES

PROPOSED / PRESENT

- LUMINAIRE, C.M.H. 315W LAMP, 240V
- LUMINAIRE, C.M.H. 315W LAMP, 240V, (FLOOD)
- LUMINAIRE, C.M.H. 210W LAMP, 240V
- LUMINAIRE, C.M.H. 140W LAMP, 240V
- LUMINAIRE, C.M.H. 140W LAMP, 120V, (ALLEY)
- LUMINAIRE, C.M.H. 90W LAMP, 240V
- LUMINAIRE, C.M.H. 90W LAMP, 240V (ACORN)
- LUMINAIRE, C.M.H. 60W LAMP, 240V (ACORN)

H.P.S.V. ORNAMENTAL LUMINAIRES

PROPOSED / PRESENT

- 310W PENDANT (240V)
- 400W PENDANT (240V)
- 250W PENDANT (240V)
- 150W ACORN (120V)
- 150W ACORN (240V)
- 50W ACORN (240V)
- 100W ACORN (240V)
- 150W GLOBE (240V)
- 100W GLOBE (240V)
- 50W GLOBE (240V)

L.E.D. LUMINAIRES

PROPOSED / PRESENT

- (400W HPSV EQUIVALENT), 240V
- (100W HPSV EQUIVALENT), 240V, ACORN
- (310W HPSV EQUIVALENT), 240V
- (100/150W HPSV EQUIVALENT), 240V ACORN
- (250W HPSV EQUIVALENT), 240V
- (50W HPSV EQUIVALENT), 240V, ACORN

	DATE	REVISION
F	01-08-14	ADDED LED LUMINAIRES A.VIEU
E	09-19-13	ADDED CMH LUMINAIRES A.VIEU
D	02-06-04	REVISED/REDRAW R.POOL/B.I.
C	04-01-02	REVISED/REDRAW R.POOL/B.I.
B	12-4-01	ADDED ORNAMENTAL SYMBOLS
A	8-6-96	REDRAWN

SUPERSEDES DWG. #

WORK ORDER NO. ______ DATE ______

COST ALLOCATION ACCOUNT ______

APPROPRIATION ACCOUNT { MATERIAL ______ LABOR ______

STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING

CITY OF CHICAGO
DEPT. OF TRANSPORTATION
DIVISION OF ENGINEERING
ELECTRICAL SECTION

DRAFTSMAN: R. IVY | CHIEF DRAFTSMAN: R. CARTER | ENGINEER: R. POOL/R.C/W.T.

SUPERVISING ENGINEER: | ELEC. DESIGN ENGR.

ENGINEER OF ELECTRICITY:

GEN'L SUPT. OF CONSTRUCTION:

DEPUTY COMMISSIONER:

DWG. NO. 826

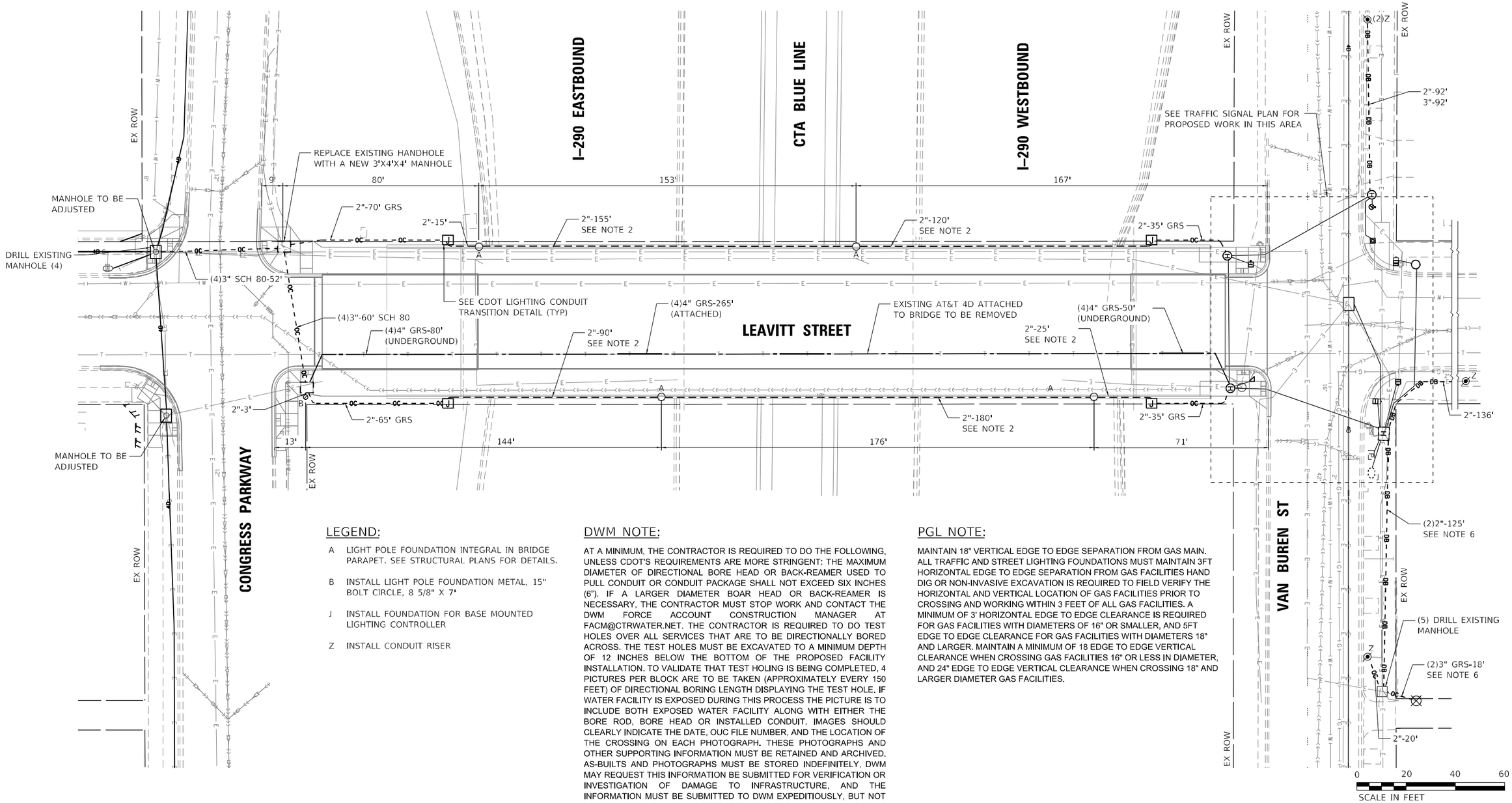
SIZE: 22" | 36" SCALE: NONE DATE: 09-19-13

NOTES:

1. DRILL EXISTING HANDHOLE OR MANHOLE
2. CONDUIT EMBEDDED IN PARAPET WALL. SEE STRUCTURAL DRAWINGS FOR DETAILS.
3. PROPOSED CONDUIT SHALL BE UNDERGROUND SCHEDULE 40, UNLESS NOTED OTHERWISE.
4. DRILLING OF ALL EXISTING UNDERGROUND STRUCTURES (REGARDLESS OF SIZE/TYPE) SHALL BE PAID FOR AS "DRILL EXISTING HANDHOLE". CONNECTIONS TO EXISTING UNDERGROUND STRUCTURES SHALL BE PER CDOT DIVISION OF ELECTRICAL OPERATIONS STANDARD DETAIL 814.

NOTES: (CONTINUATION)

5. PROVIDE EXPANSION/DEFLECTION FITTINGS FOR ALL CONDUITS AT BRIDGE EXPANSION JOINTS. EXPANSION/DEFLECTION FITTINGS SHALL BE INCLUDED IN THE COST OF THE CONDUIT EMBEDDED IN STRUCTURE OR CONDUIT ATTACHED TO STRUCTURE.
6. CONDUITS FOR LIGHTING CONTROLLERS SERVICE CONDUCTOR.



LEGEND:

- A LIGHT POLE FOUNDATION INTEGRAL IN BRIDGE PARAPET. SEE STRUCTURAL PLANS FOR DETAILS.
- B INSTALL LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8 5/8" X 7'
- J INSTALL FOUNDATION FOR BASE MOUNTED LIGHTING CONTROLLER
- Z INSTALL CONDUIT RISER

DWM NOTE:

AT A MINIMUM, THE CONTRACTOR IS REQUIRED TO DO THE FOLLOWING, UNLESS CDOT'S REQUIREMENTS ARE MORE STRINGENT: THE MAXIMUM DIAMETER OF DIRECTIONAL BORE HEAD OR BACK-REAMER USED TO PULL CONDUIT OR CONDUIT PACKAGE SHALL NOT EXCEED SIX INCHES (6"). IF A LARGER DIAMETER BOAR HEAD OR BACK-REAMER IS NECESSARY, THE CONTRACTOR MUST STOP WORK AND CONTACT THE DWM FORCE ACCOUNT CONSTRUCTION MANAGER AT FACM@CTRWATER.NET. THE CONTRACTOR IS REQUIRED TO DO TEST HOLES OVER ALL SERVICES THAT ARE TO BE DIRECTIONALLY BORED ACROSS. THE TEST HOLES MUST BE EXCAVATED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE BOTTOM OF THE PROPOSED FACILITY INSTALLATION. TO VALIDATE THAT TEST HOLING IS BEING COMPLETED, 4 PICTURES PER BLOCK ARE TO BE TAKEN (APPROXIMATELY EVERY 150 FEET) OF DIRECTIONAL BORING LENGTH DISPLAYING THE TEST HOLE. IF WATER FACILITY IS EXPOSED DURING THIS PROCESS THE PICTURE IS TO INCLUDE BOTH EXPOSED WATER FACILITY ALONG WITH EITHER THE BORE ROD, BORE HEAD OR INSTALLED CONDUIT. IMAGES SHOULD CLEARLY INDICATE THE DATE, OUC FILE NUMBER, AND THE LOCATION OF THE CROSSING ON EACH PHOTOGRAPH. THESE PHOTOGRAPHS AND OTHER SUPPORTING INFORMATION MUST BE RETAINED AND ARCHIVED. AS-BUILTS AND PHOTOGRAPHS MUST BE STORED INDEFINITELY. DWM MAY REQUEST THIS INFORMATION BE SUBMITTED FOR VERIFICATION OR INVESTIGATION OF DAMAGE TO INFRASTRUCTURE, AND THE INFORMATION MUST BE SUBMITTED TO DWM EXPEDITIOUSLY, BUT NOT LONGER THAN 30 DAYS AFTER THE REQUEST. DWM MAY REQUIRE ADDITIONAL PHOTOS IF DEEMED NECESSARY.

PGL NOTE:

MAINTAIN 18" VERTICAL EDGE TO EDGE SEPARATION FROM GAS MAIN. ALL TRAFFIC AND STREET LIGHTING FOUNDATIONS MUST MAINTAIN 3FT HORIZONTAL EDGE TO EDGE SEPARATION FROM GAS FACILITIES HAND DIG OR NON-INVASIVE EXCAVATION IS REQUIRED TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF GAS FACILITIES PRIOR TO CROSSING AND WORKING WITHIN 3 FEET OF ALL GAS FACILITIES. A MINIMUM OF 3' HORIZONTAL EDGE TO EDGE CLEARANCE IS REQUIRED FOR GAS FACILITIES WITH DIAMETERS OF 16" OR SMALLER, AND 5FT EDGE TO EDGE CLEARANCE FOR GAS FACILITIES WITH DIAMETERS 18" AND LARGER. MAINTAIN A MINIMUM OF 18 EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING GAS FACILITIES 16" OR LESS IN DIAMETER, AND 24" EDGE TO EDGE VERTICAL CLEARANCE WHEN CROSSING 18" AND LARGER DIAMETER GAS FACILITIES.

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	DRAWN - DTJ	REVISED -
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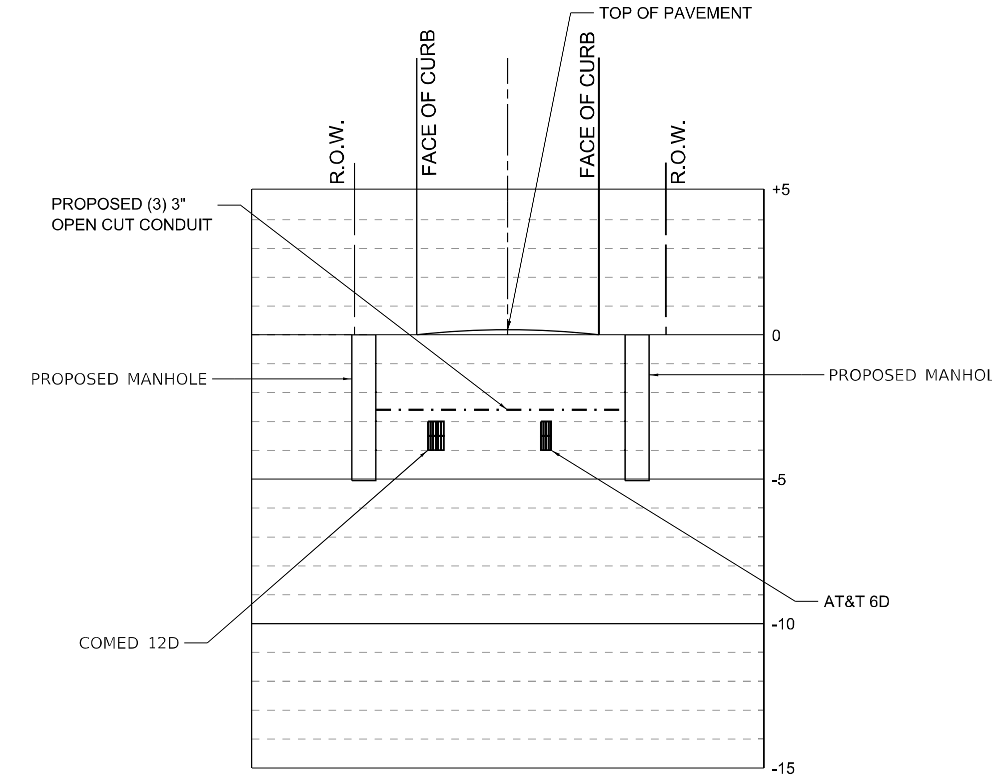
PLOT DATE = 12/4/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

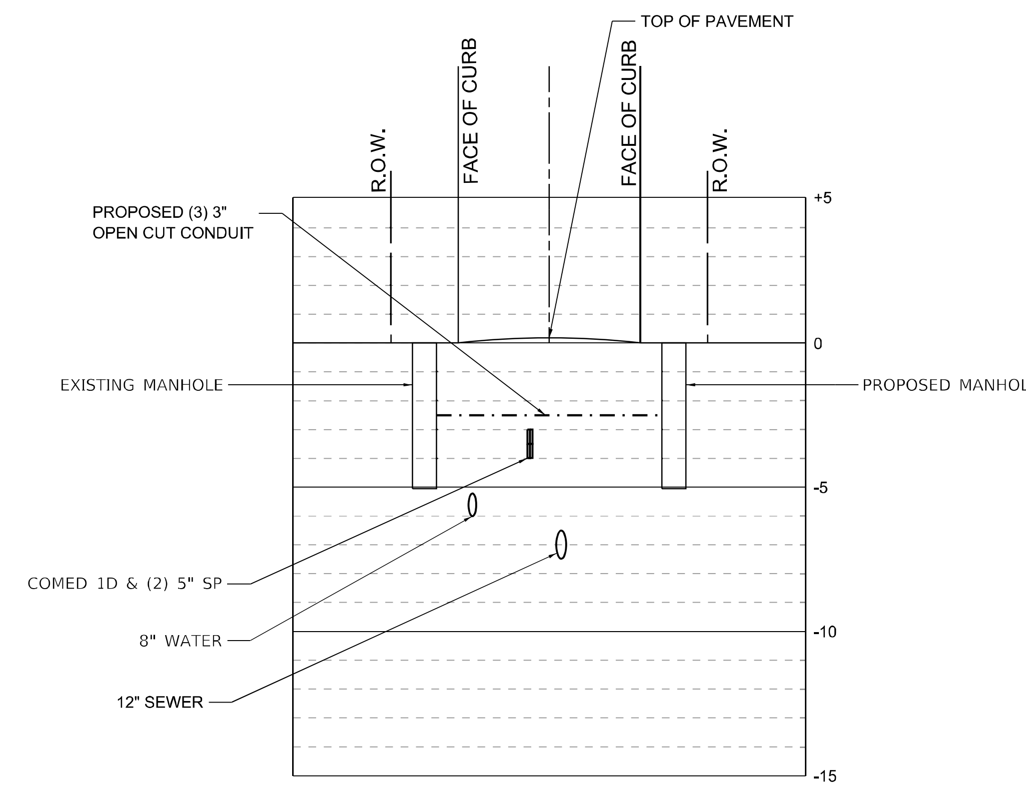
CDOT CONDUIT AND FOUNDATION PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	51
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			



PROPOSED CONDUIT PROFILE ACROSS LEAVITT STREET LOOKING NORTH 62' NORTH OF THE SOUTH ROW OF CONGRESS PARKWAY



PROPOSED CONDUIT PROFILE ACROSS CONGRESS PARKWAY LOOKING WEST 3.5' EAST OF THE WEST ROW OF LEAVITT STREET

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PLOT DATE = 12/3/2024	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT CONDUIT PROFILES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	51A
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

INSTALLATION LEGEND

"A" INSTALL ARTERIAL LIGHT POLE, 32.5 FT. M.H. WITH 12 FOOT DAVIT ARM AND 149W ARTERIAL LED COBRA HEAD LUMINAIRE WITH NODE (POLE AND LUMINAIRE TO BE FURNISHED BY CDOT).

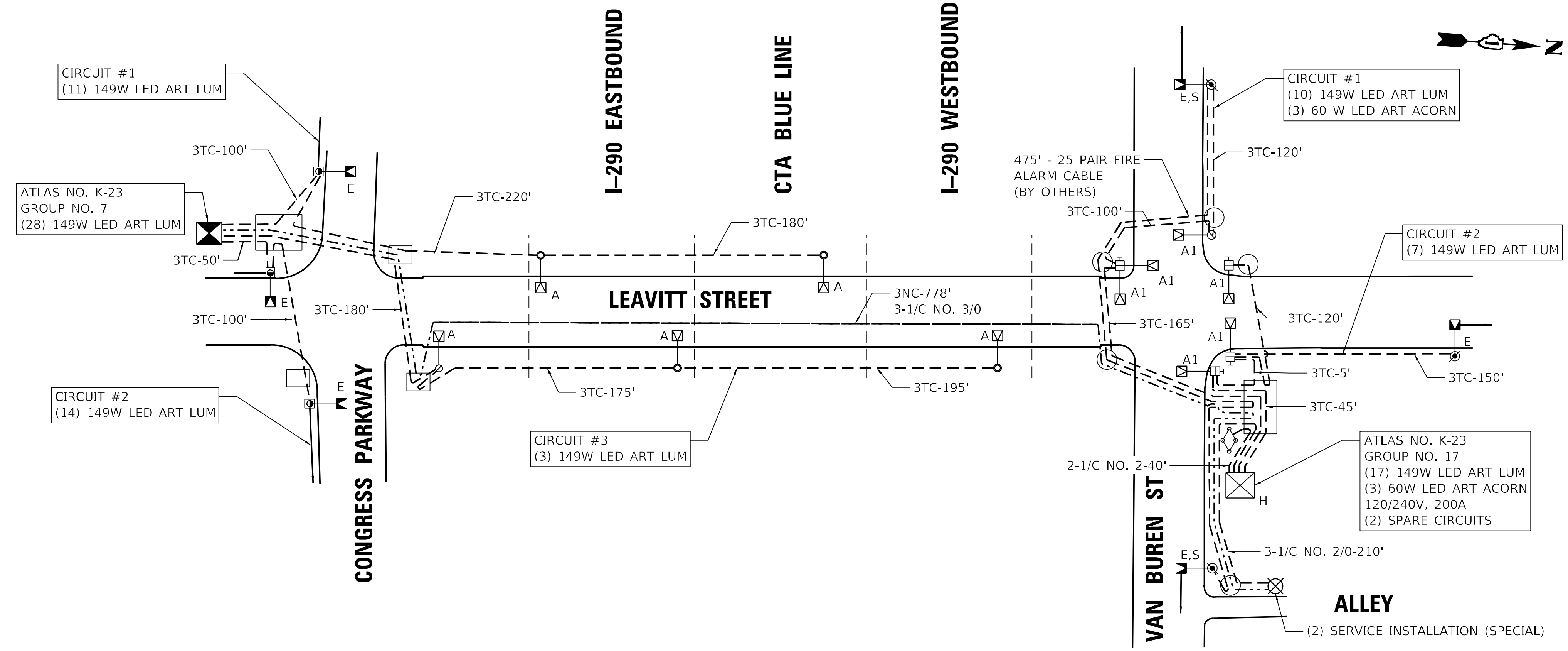
"A1" INSTALL 12 FOOT MAST ARM AND 149W ARTERIAL LED COBRA HEAD LUMINAIRE ON STEEL COMBINATION POLE

"A2" INSTALL ARTERIAL LIGHT POLE, 35 FT. M.H. WITH 12 FOOT DAVIT ARM AND 149W ARTERIAL LED COBRA HEAD LUMINAIRE WITH NODE (POLE AND LUMINAIRE TO BE FURNISHED BY CDOT).

"E" EXISTING POLE WITH LED LUMINAIRE TO REMAIN

"H" INSTALL PEDESTAL MOUNTED STREET LIGHTING CONTROLLER, SINGLE PHASE, 200A, 240V, 4-2P-50A CIRCUIT BREAKERS, PAINTED BLACK, PER DWGS. 880, 983 AND 984.

"S" SPLICE FIRE ALARM CONDUCTORS (BY OTHERS)



INSTALLATION OF STREET LIGHTING EQUIPMENT

REMOVAL LEGEND

"E" EXISTING POLE WITH LED LUMINAIRE TO REMAIN

"L" REMOVE EXISTING FOUNDATION, LIGHTPOLE, MAST ARM, LUMINAIRE, NODE, AND ASSOCIATED AERIAL CABLE.

"L1" REMOVE EXISTING BRIDGE MOUNTED LIGHT POLE, MAST ARM, LUMINAIRE, NODE, AND ASSOCIATED AERIAL CABLE. REMOVAL OF EXISTING FOUNDATION IS INCLUDED IN THE COST OF DECK REMOVAL.

"L2" REMOVE EXISTING EMBEDDED POLE, MAST ARM, LUMINAIRE, AND NODE.

"R" REMOVE PEDESTAL MOUNTED STREET LIGHTING CONTROLLER AND FOUNDATION

"R1" REMOVE EXISTING HANDHOLE

"R2" REMOVE EXISTING MANHOLE

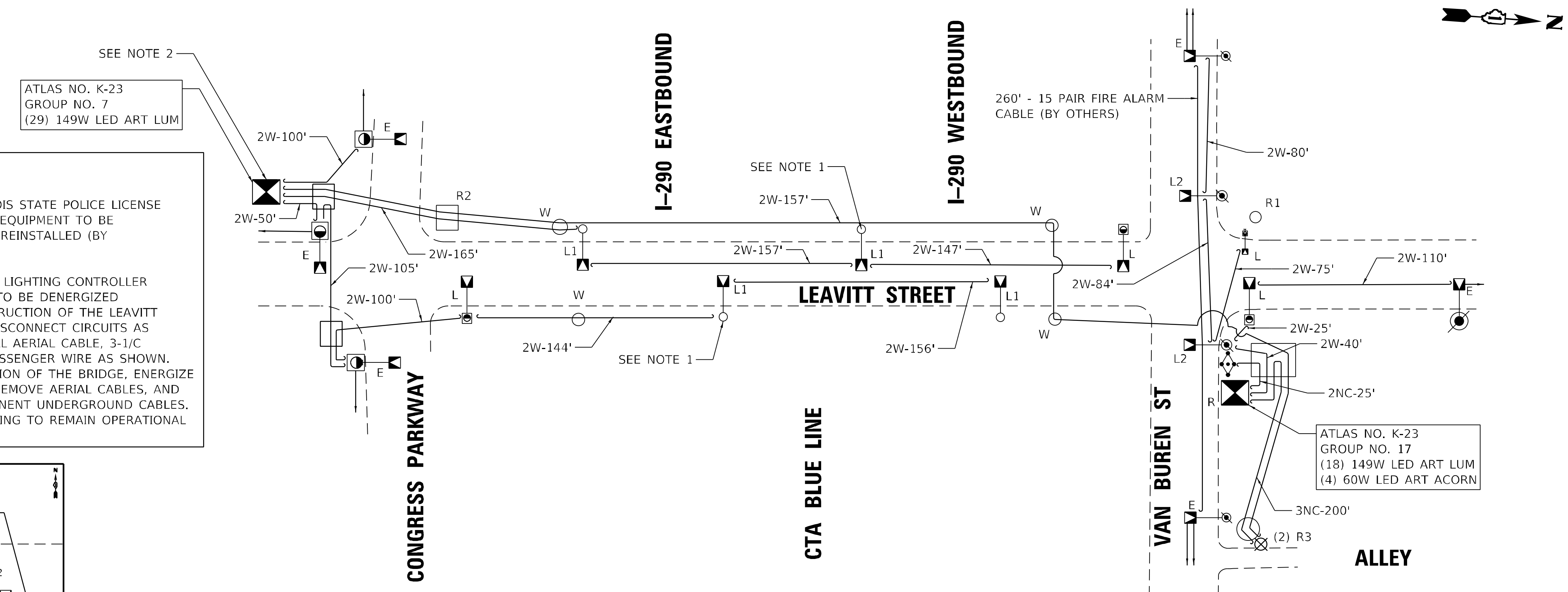
"R3" REMOVE EXISTING SERVICE INSTALLATION

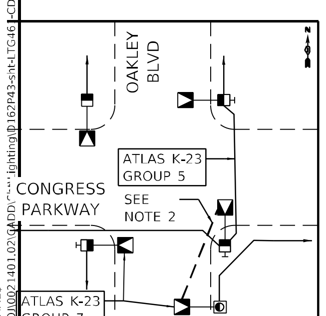
"W" HANDHOLE REMOVED AS PART OF BRIDGE SUPERSTRUCTURE REMOVAL

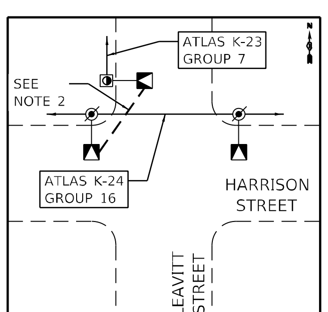
NOTES:

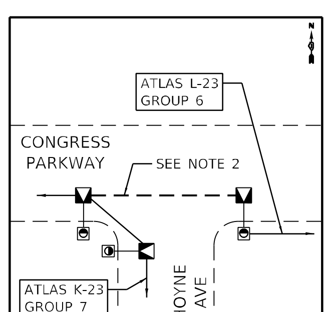
1. EXISTING ILLINOIS STATE POLICE LICENSE PLATE READER EQUIPMENT TO BE REMOVED AND REINSTALLED (BY OTHERS)

2. EXISTING CDOT LIGHTING CONTROLLER K-23/GROUP 7 TO BE DENERGIZED DURING CONSTRUCTION OF THE LEAVITT AVE BRIDGE. DISCONNECT CIRCUITS AS SHOWN. INSTALL AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE AS SHOWN. UPON COMPLETION OF THE BRIDGE, ENERGIZE CONTROLLER, REMOVE AERIAL CABLES, AND INSTALL PERMANENT UNDERGROUND CABLES. EXISTING LIGHTING TO REMAIN OPERATIONAL AT ALL TIMES.









REMOVAL OF STREET LIGHTING EQUIPMENT

CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = untitled	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CDOT LIGHTING INSTALLATION AND REMOVAL PLAN	F.A.I. RTE. 290	SECTION 2021-120-BR
		DRAWN - DTJ	REVISED -			COUNTY COOK	TOTAL SHEETS 178
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -			SHEET NO. 52	CONTRACT NO. 62P43
	PLOT DATE = 12/3/2024	DATE - 12/3/2024	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

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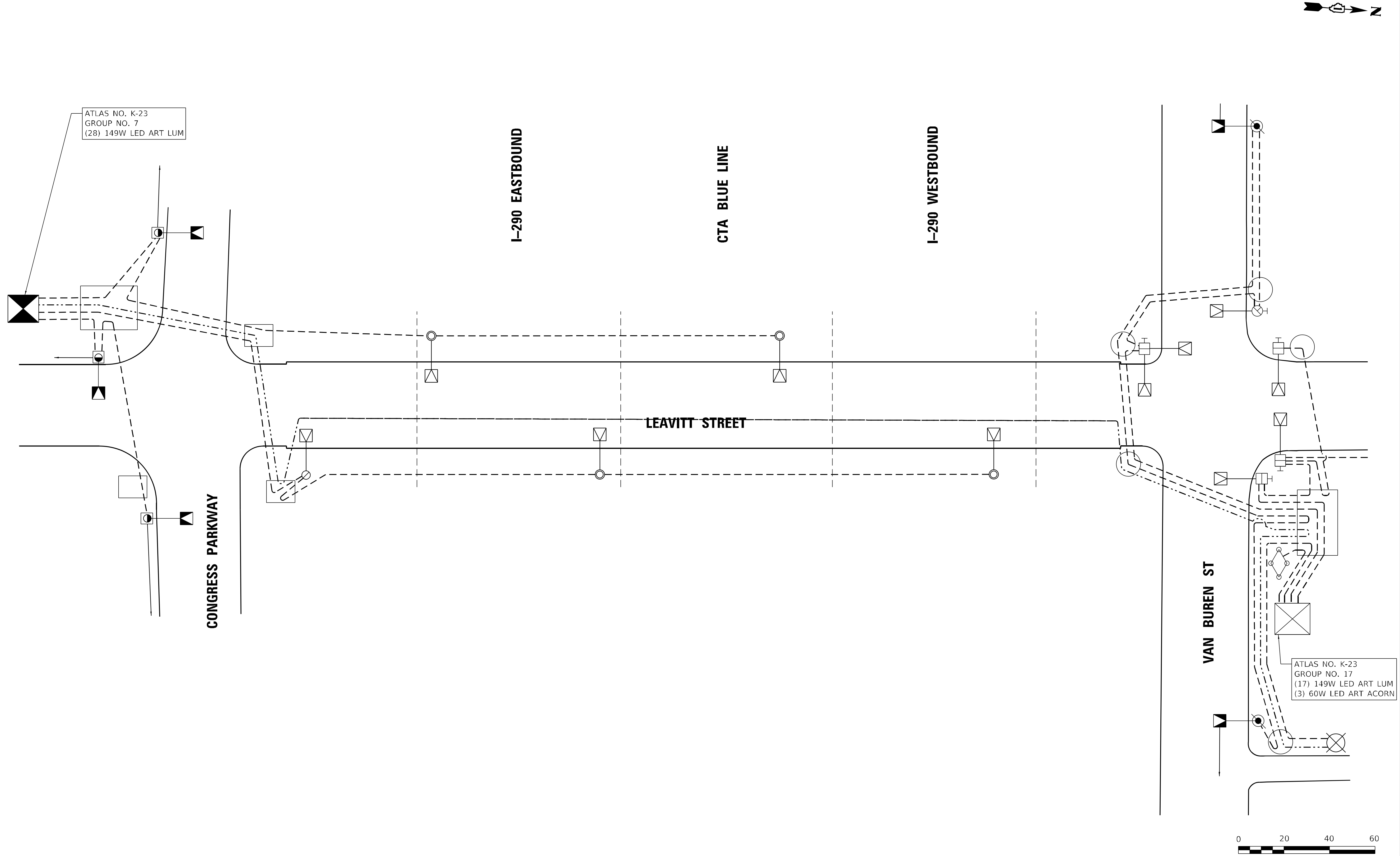

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	DRAWN - DTJ	REVISED -
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PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT LIGHTING FIELD INSTALLATION RECORD

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	53
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

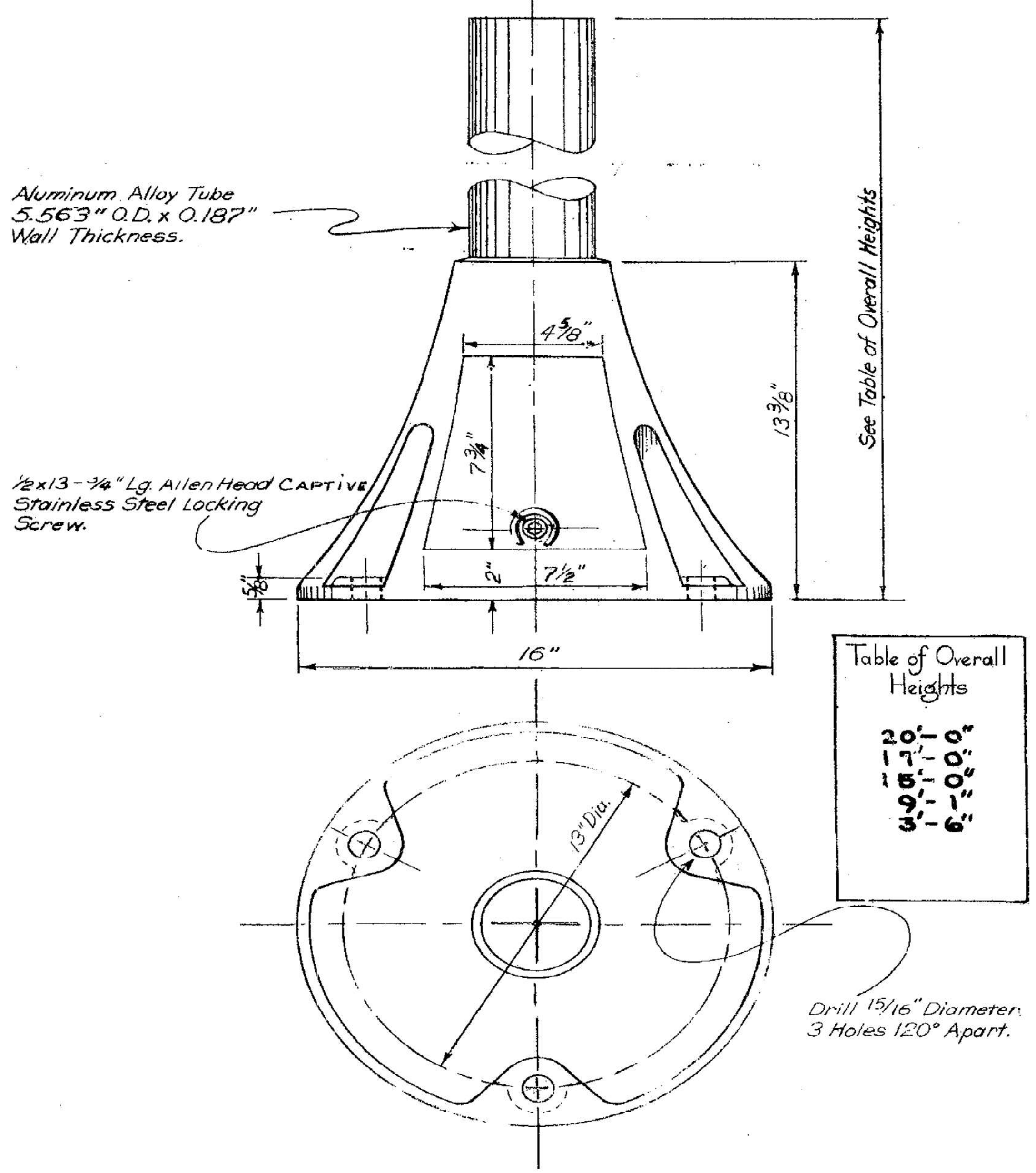


Table of Overall Heights

20'-0"
17'-0"
15'-0"
9'-1"
3'-6"

ALUMINUM PEDESTAL BASE WITH HANDHOLE

for

Street Lighting Controller, Traffic Signal Controller and Traffic Signal Heads.

		REVISED	
J	CHANGED OVERALL HEIGHTS 5-22-8[illegible]		
	Revised Table of Overall Heights	A	5-5-60
	Revised O.D. of Pedestal	B	6-30-60
	Revised Specification Number	C	12-21-60
	REVISED TABLE OF OVERALL HEIGHTS	D	3-23-62
	REVISED DOOR DIMENSIONS	E	6-4-64
	Revised Overall Heights.	F	7-14-71
	REVISED OVERALL HEIGHTS	G	OCT. 26, 73
	REVISED OVERALL HEIGHTS	H	5-4-79

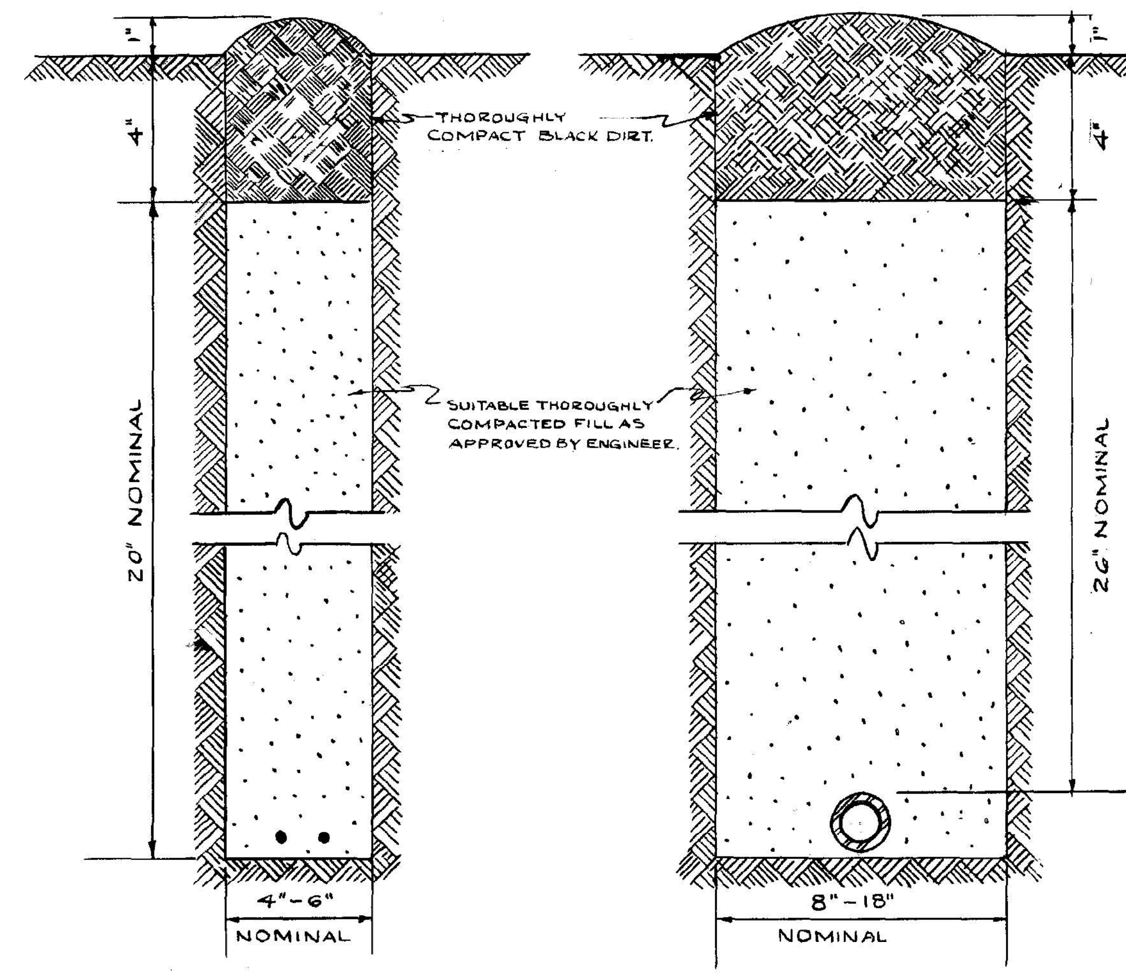
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
DIVISION OF ELECTRICAL ENGINEERING

DRAWN R. COLLEY | CHECKED J. Bore | ENGINEER Ruzicka

ENG. IN CHARGE | SUPT. OF CONSTRUCTION | DEPUTY COMMISSIONER

DRG. NO. 526

SIZE 8½"x14" | SCALE — | DATE 4-13-60



CABLE TRENCH CONDUIT TRENCH

NOTE

EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.

BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS

REVISION A B C D E F G H

CITY OF CHICAGO
DEPT. OF STREETS & SANITATION
DIVISION OF ELECTRICAL ENGINEERING

DRAWN W. E. HARP | CHECKED M. Shine | ENGINEER J.O'CONNOR

ENG. IN CHARGE | SUPT. OF CONST. | DEPUTY COMM.

DRG. NO. 579

SIZE 8½x14" | SCALE: — | DATE: 7-14-61

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	DRAWN - DTJ	REVISED -	
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PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -	

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CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	54
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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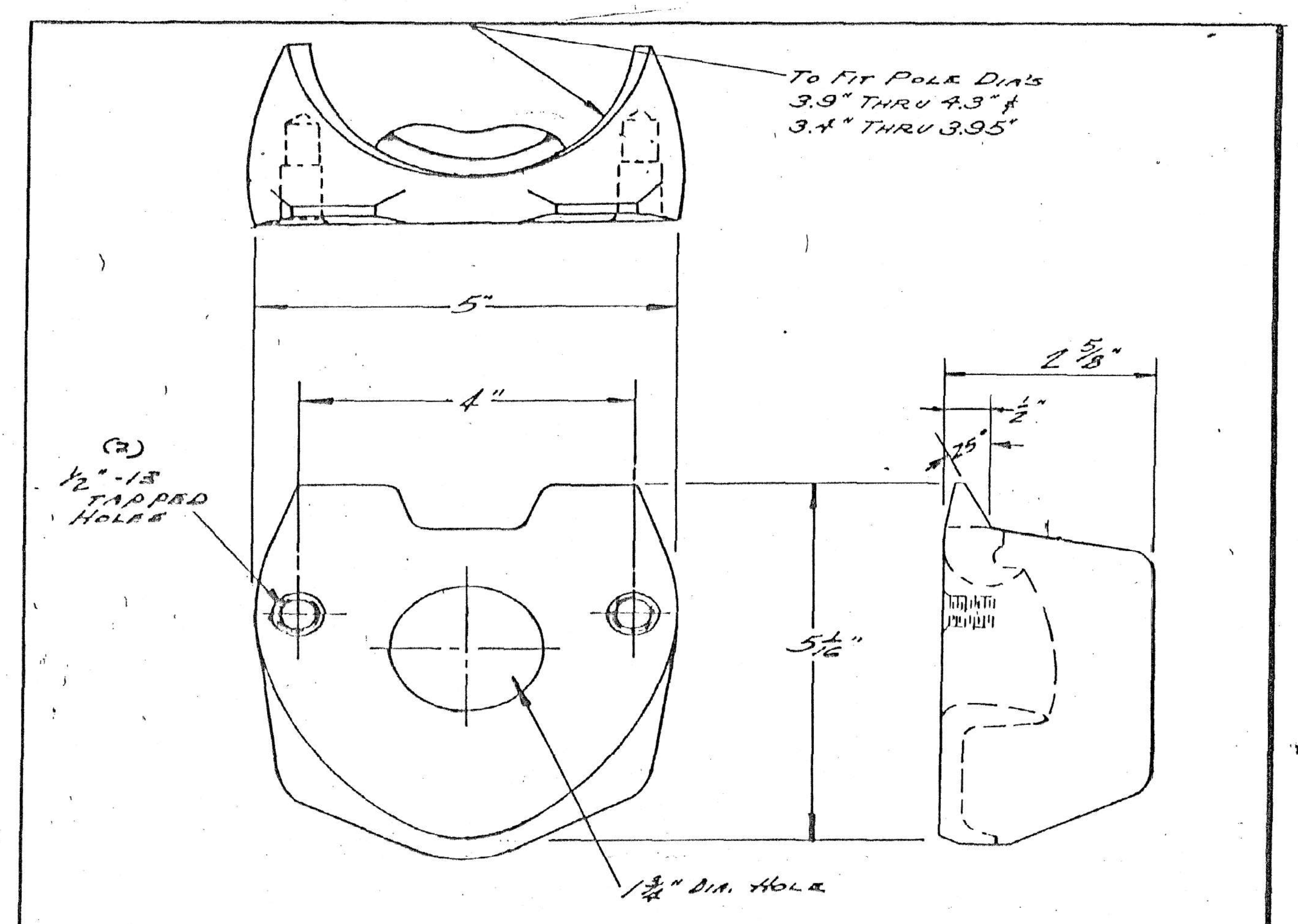
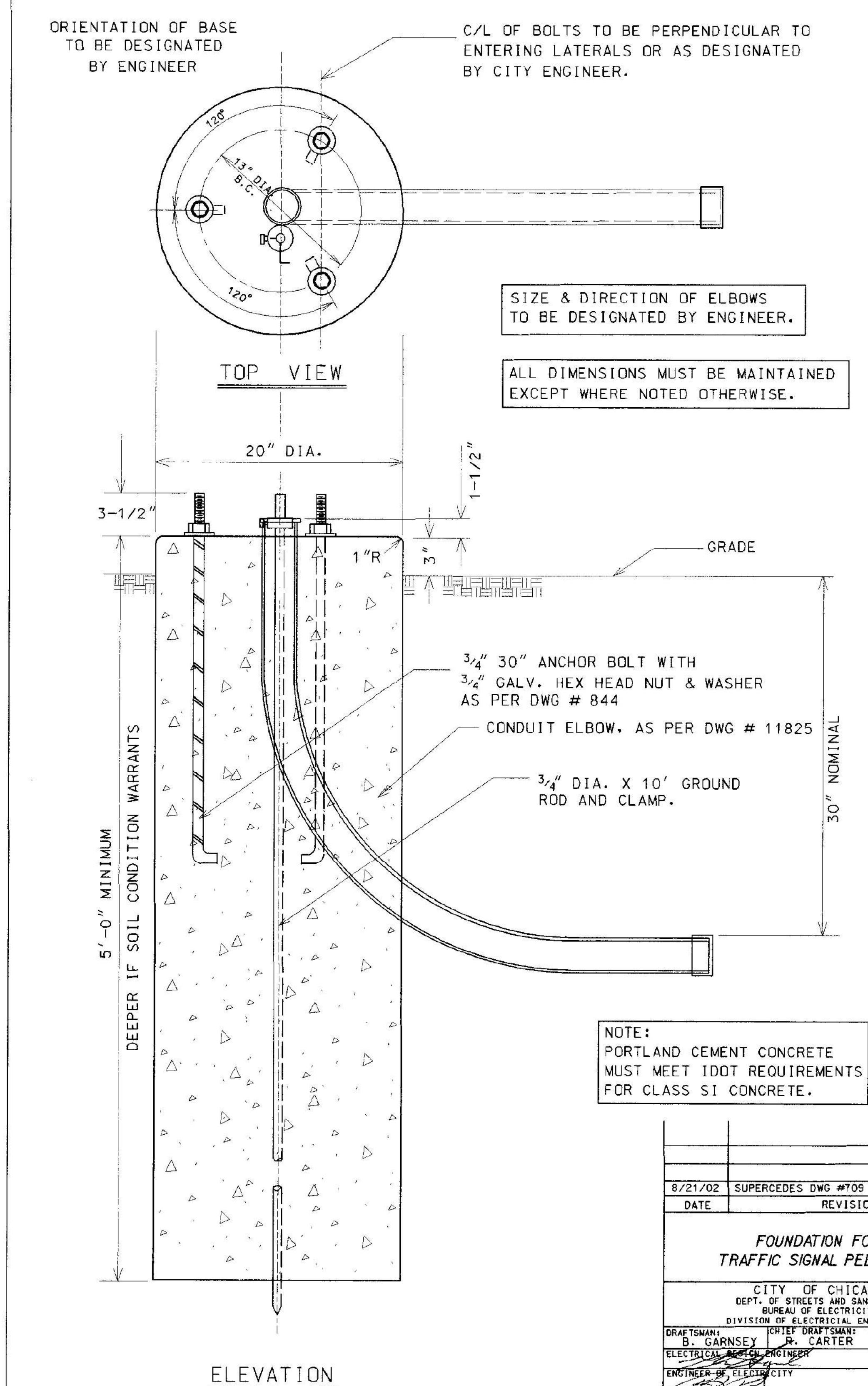


MATERIAL: CAST STEEL

A	J.O'C.	MATERIAL NOTE ADDED.

2 BOLT MAST ARM ATTACHMENT POLE PLATE DETAILS

REVISED	CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICAL ENGINEERING		
A 5-27-76	DRAWN J. WAHLFELDT	CHECKED J. BORE	ENGINEER J. BORE
B	ENG. IN CHARGE		DRG. NO. 659
C	SUPT. OF CONST.		
D	DEPUTY COMM.		
E			
F			
G	SIZE 8 1/2" x 14"	SCALE ~	DATE 10-25-66



NOTE:
PORTLAND CEMENT CONCRETE MUST MEET IDOT REQUIREMENTS FOR CLASS SI CONCRETE.

DATE	REVISION
8/21/02	SUPERCEDES DWG #709 DRAWN 7/22/80

FOUNDATION FOR TRAFFIC SIGNAL PEDESTAL

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: B. GARNSEY	CHIEF DRAFTSMAN: R. CARTER	ENGINEER: B. GARNSEY
ELECTRICAL DESIGN ENGINEER		DRAWING NO. 709
ENGINEER OF ELECTRICITY		
GENERAL SUPERINTENDENT		
DEPUTY COMMISSIONER		
SIZE: 11" x 17"	SCALE: NONE	DATE: 8/21/02

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	55
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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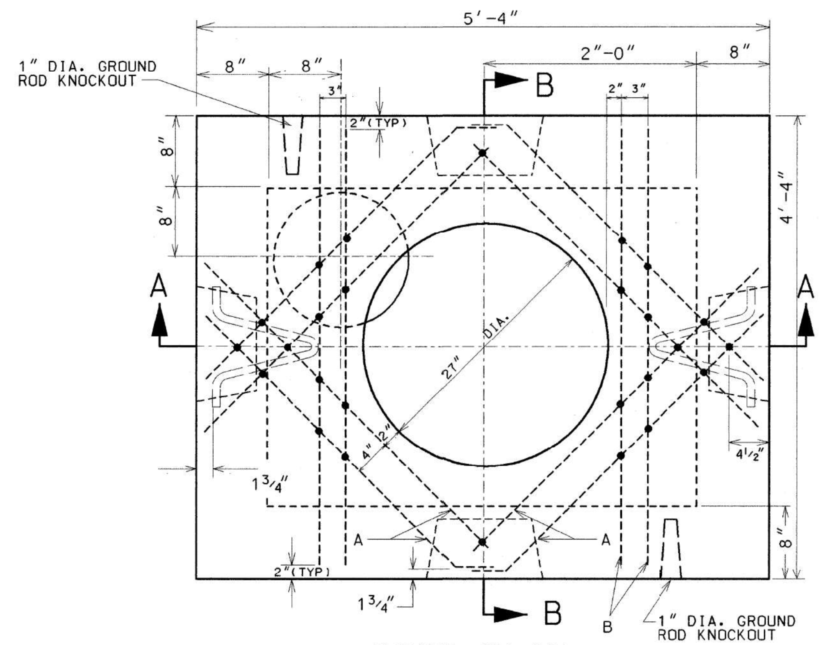
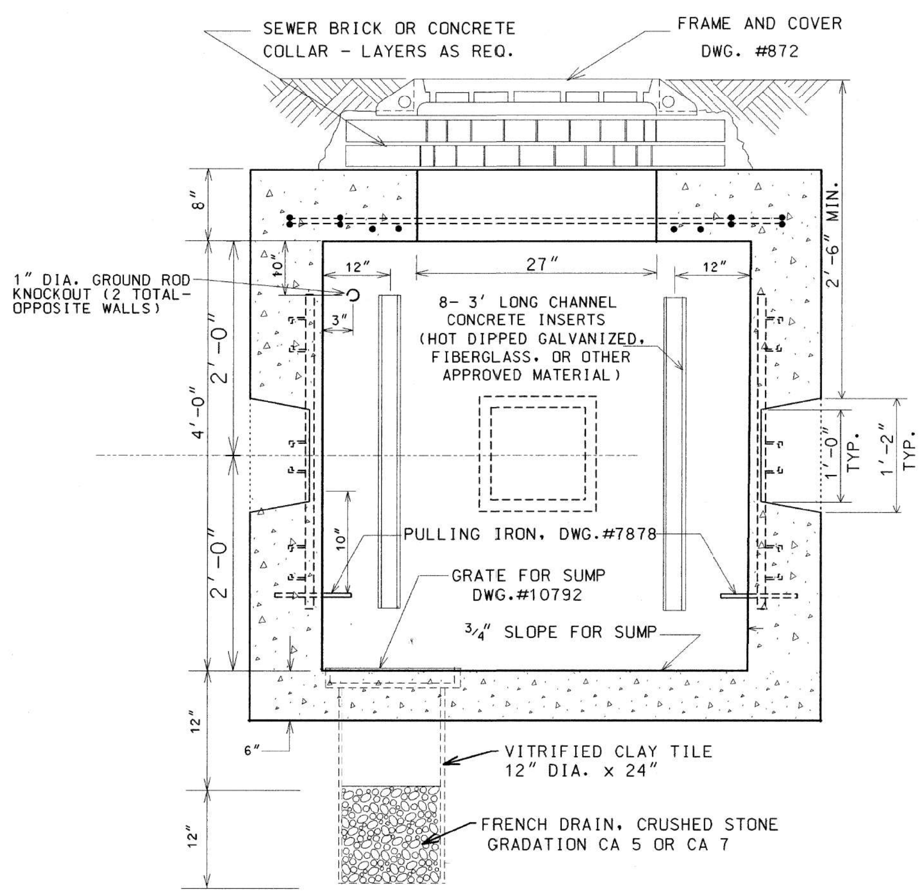
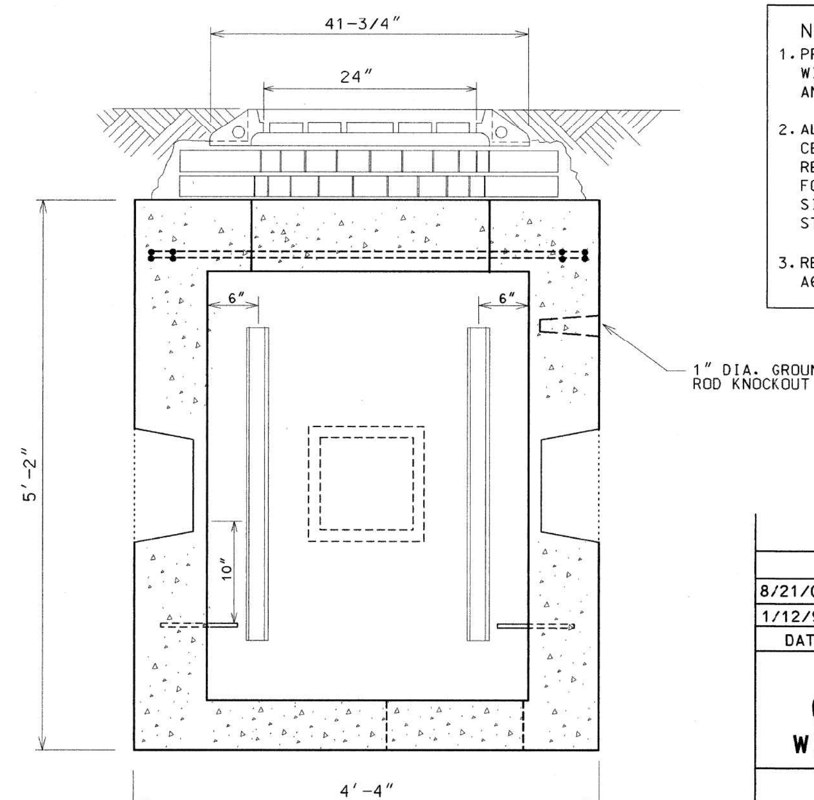


ROOF PLAN



SECTION A-A



SECTION B-B

EXCAVATION (CONSTRUCTION INFORMATION)
COMPLETE MANHOLE 6.0 CU. YDS.
NEW ROOF ONLY 2.0 CU. YDS
SHEETING MANHOLE 150.0 SQ. FT.

#5 REINFORCING BARS			
BAR	LENGTH	NO. OF RODS	TOTAL FT.
A	3'-4"	4	13'-4"
B	4'-0"	10	40'-0"

MATERIALS FOR ROOF ONLY	
CONCRETE	0.45 CU. YDS.
REINFORCING BARS #5	54'

DRG.	MATERIAL	CODE	SIZE	No. Req.
	FORM FOR MANHOLE	17-6674-6000 17-6648-5320	3x4x4	1
	CONDUIT END BELL		AS REQ.	
	TILE, SEWER	39-4038-3200	12"/24"	1
	SLAB BOLSTER		2"	20'
	BAR, REINFORCING	20-5472-9650	5/8" ø	54'
	TIE WIRE	13-9938-6106	#20GA.	35'
7878	PULLING IRON	02-4483-6970	3/4" ø	2
	CONCRETE	05-3267-2940	3 CU.	YDS
	SEWER BRICK	05-1452-9720	STD.	50
10792	GRATE FOR SUMP	02-4368-7100	15" ø	1
	GROUND ROD	09-7796-9200	3/4"x10'	1
	GROUND ROD CLAMP	09-2636-3240	3/4"	1
	CRUSHED STONE	05-9057-5471	3/4"	TWO BAGS
872	MANHOLE FRAME	02-4299-5524	24"	1
872	MANHOLE COVER	02-4574-5040	24"	1
	CONC. CHANNEL INSERT	02-4574-5040	3'	8

NOTES:

1. PRECAST MANHOLES MUST BE PROVIDED WITH CHANNEL INSERTS, PULLING IRONS, AND CONDUIT KNOCK-OUTS.
2. ALL CONCRETE MUST BE PORTLAND CEMENT CONCRETE MEETING IDOT REQUIREMENTS FOR CLASS PC CONCRETE FOR PRE-CAST STRUCTURES, OR CLASS SI CONCRETE FOR CAST-IN-PLACE STRUCTURES.
3. REINFORCING BARS MUST MEET ASTM A615 GRADE 60.

DATE	REVISION
8/21/02	SUPERCEDES DWG. 730 DATED JAN 12, 1996
1/12/96	SUPERCEDES DWG. 730 DATED NOV. 21, 1973

3' x 4' x 4' CONCRETE MANHOLE WITH 24" FRAME AND COVER

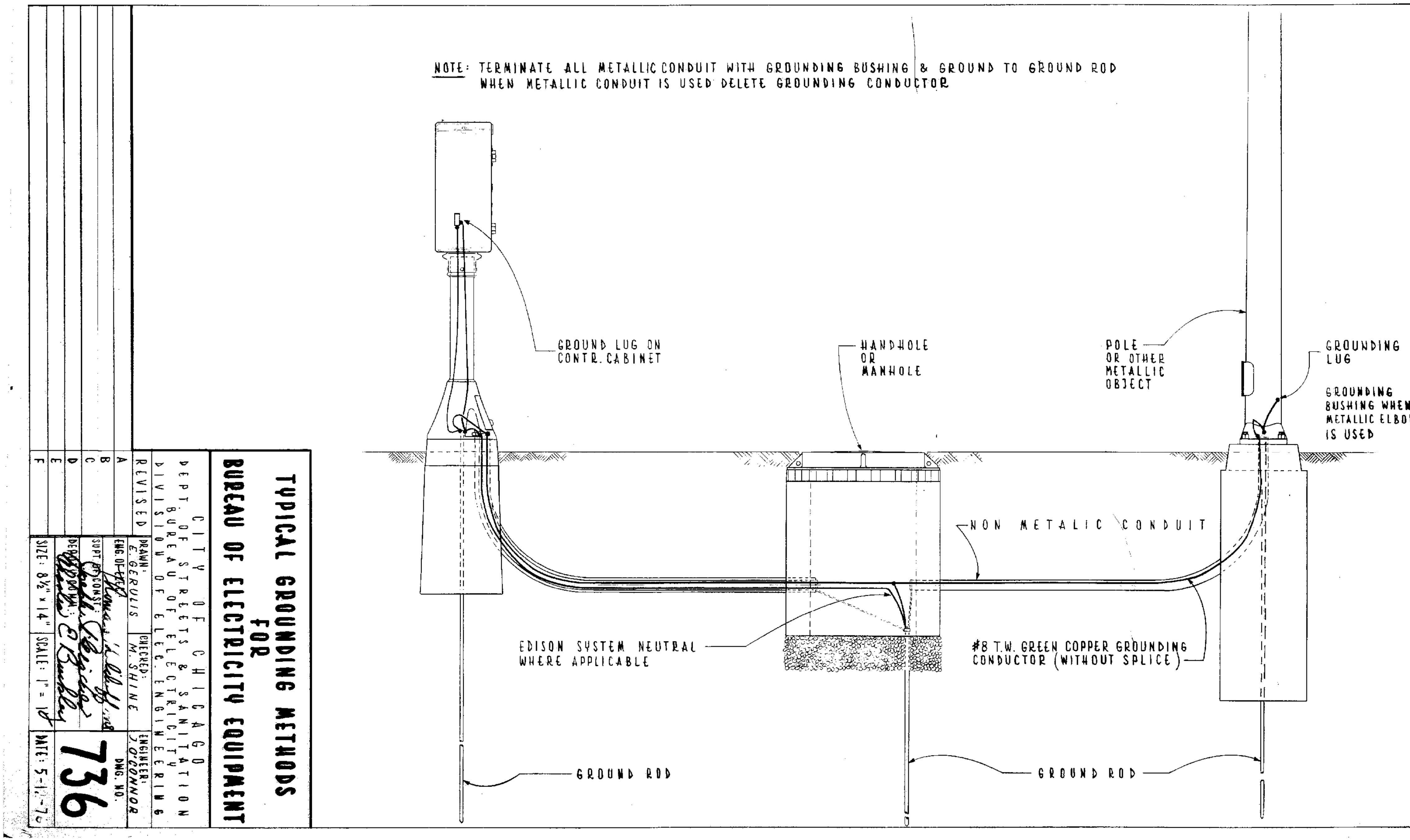
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICIAL ENGINEERING

DRAFTSMAN: B. GARNSEY | CHIEF DRAFTSMAN: R. CARTER | ENGINEER: B. GARNSEY

ELECTRICAL DESIGN ENGINEER
ENGINEER OF ELECTRICITY
GENERAL SUPERINTENDENT
DEPUTY COMMISSIONER

DRAWING NO. 730

SIZE: 17" x 22" | SCALE: NONE | DATE: 8/21/02



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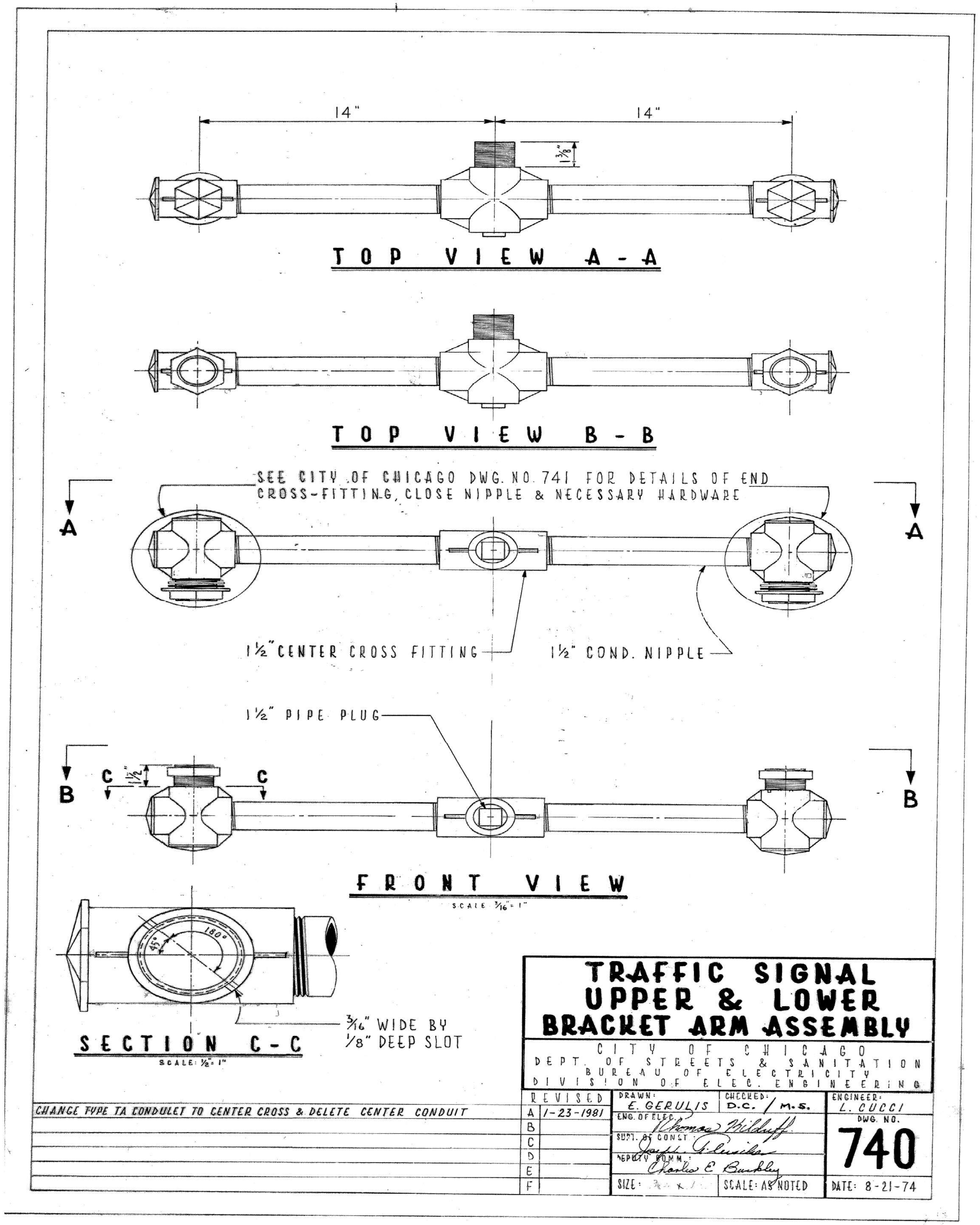
CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = untitled	DESIGNED - DTJ	REVISED -
		DRAWN - DTJ	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -
	PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

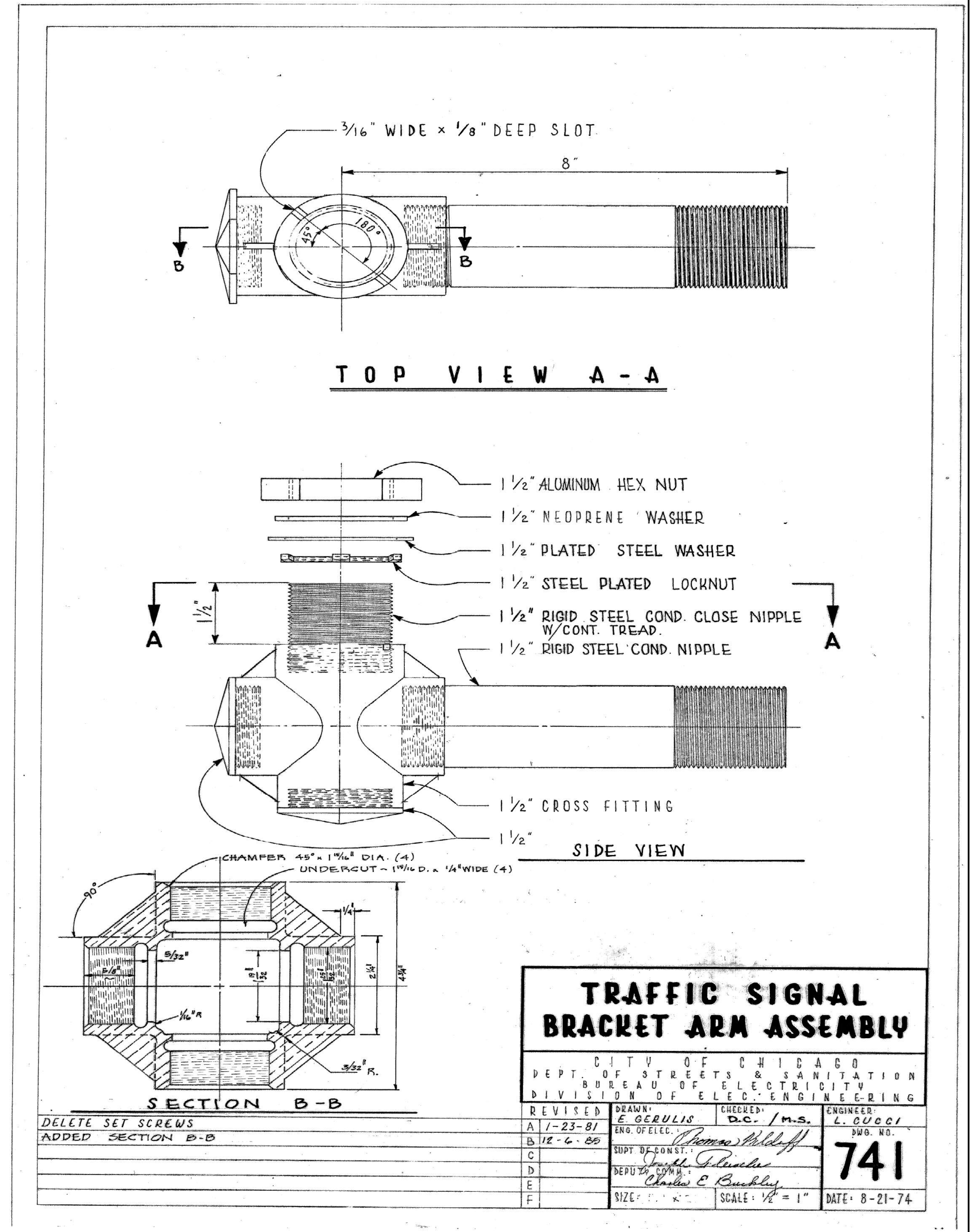
CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	57
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		



14"
14"
$1\frac{3}{8}$"
TOP VIEW A-A
TOP VIEW B-B
SEE CITY OF CHICAGO DWG. NO. 741 FOR DETAILS OF END CROSS-FITTING, CLOSE NIPPLE & NECESSARY HARDWARE
A
A
1½" CENTER CROSS FITTING
1½" COND. NIPPLE
1½" PIPE PLUG
B
C
C
B
FRONT VIEW
SCALE 3/16" = 1"
45°
180°
3/16" WIDE BY 1/8" DEEP SLOT
SECTION C-C
SCALE: ½" = 1"
TRAFFIC SIGNAL UPPER & LOWER BRACKET ARM ASSEMBLY
CITY OF CHICAGO
DEPT. OF STREETS & SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELEC. ENGINEERING
CHANGE TYPE TA CONDULET TO CENTER CROSS & DELETE CENTER CONDUIT
REVISED
A 1-23-1981
B
C
D
E
F
DRAWN: E. GERULIS
CHECKED: D.C. / M.S.
ENGINEER: L. CUCCI
ENG. OF ELEC.
SUPT. OF CONST.
DEPUTY COMM.
DWG. NO. 740
SIZE:
SCALE: AS NOTED
DATE: 8-21-74



3/16" WIDE × 1/8" DEEP SLOT
8"
45°
180°
B
B
TOP VIEW A-A
1½" ALUMINUM HEX NUT
1½" NEOPRENE WASHER
1½" PLATED STEEL WASHER
1½" STEEL PLATED LOCKNUT
1½" RIGID STEEL COND. CLOSE NIPPLE W/CONT. TREAD.
1½" RIGID STEEL COND. NIPPLE
A
A
1½"
1½" CROSS FITTING
1½"
SIDE VIEW
CHAMFER 45° x 1 15/16" DIA. (4)
UNDERCUT ~ 1 15/16 D. x 1/4" WIDE (4)
90°
1/4"
5/32"
1/16" R
3/32" R.
SECTION B-B
TRAFFIC SIGNAL BRACKET ARM ASSEMBLY
CITY OF CHICAGO
DEPT. OF STREETS & SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELEC. ENGINEERING
DELETE SET SCREWS
ADDED SECTION B-B
REVISED
A 1-23-81
B 12-6-85
C
D
E
F
DRAWN: E. GERULIS
CHECKED: D.C. / M.S.
ENGINEER: L. CUCCI
ENG. OF ELEC.
SUPT. OF CONST.
DEPUTY COMM.
DWG. NO. 741
SIZE:
SCALE: ½" = 1"
DATE: 8-21-74

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8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = untitled	DESIGNED - DTJ	REVISED -	
	DRAWN - DTJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -	

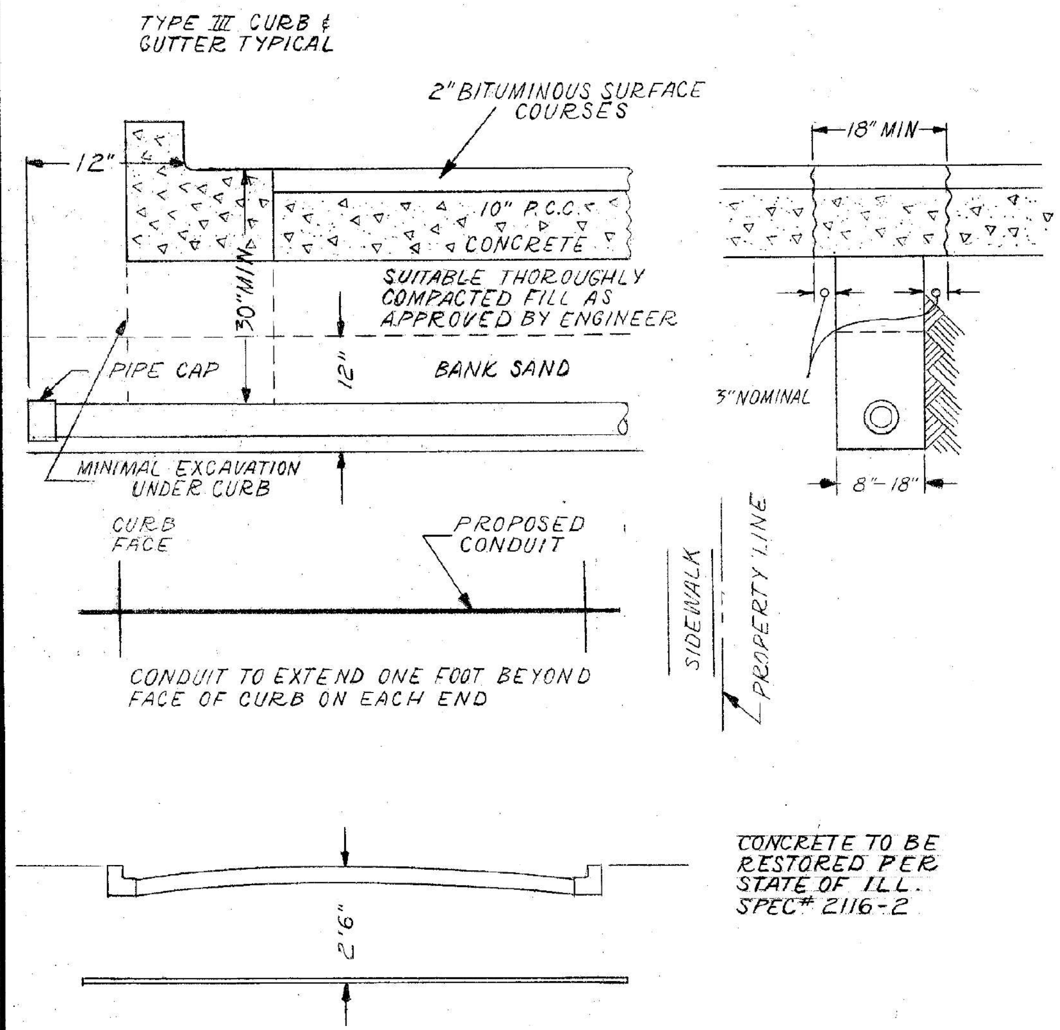
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	58
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

CONDUIT INSTALLATION UNDER PAVED STREET



CONCRETE TO BE RESTORED PER STATE OF ILL. SPEC# 2116-2

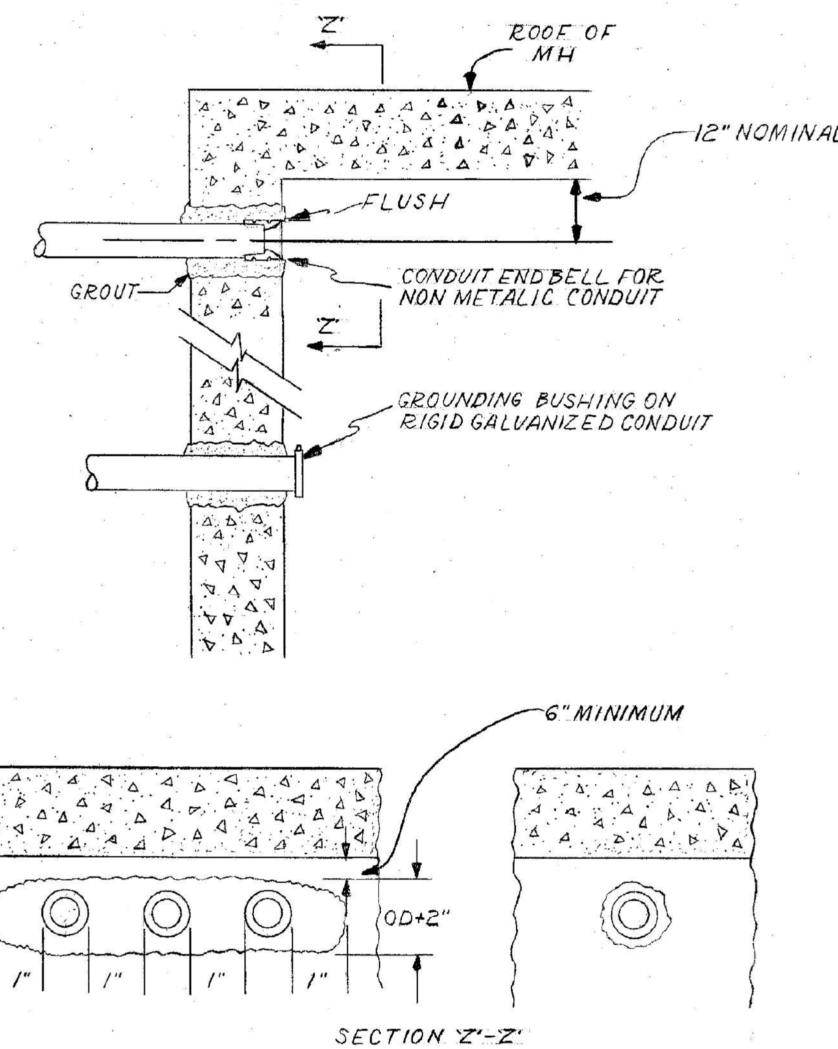
INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN	CHECKED	ENGINEER
A.M. JOHNSON	R. SYCKOWSKI	R.L. MARTIN

ENGINEER OF ELECTRICITY
SUPT. OF CONST.
DEPUTY COMM.
DRG. NO. 813
SIZE 8½"X14" SCALE N.T.S. DATE 3-13-81

CONDUIT INSTALLATION THROUGH EXISTING MANHOLE OR HANDHOLE WALL



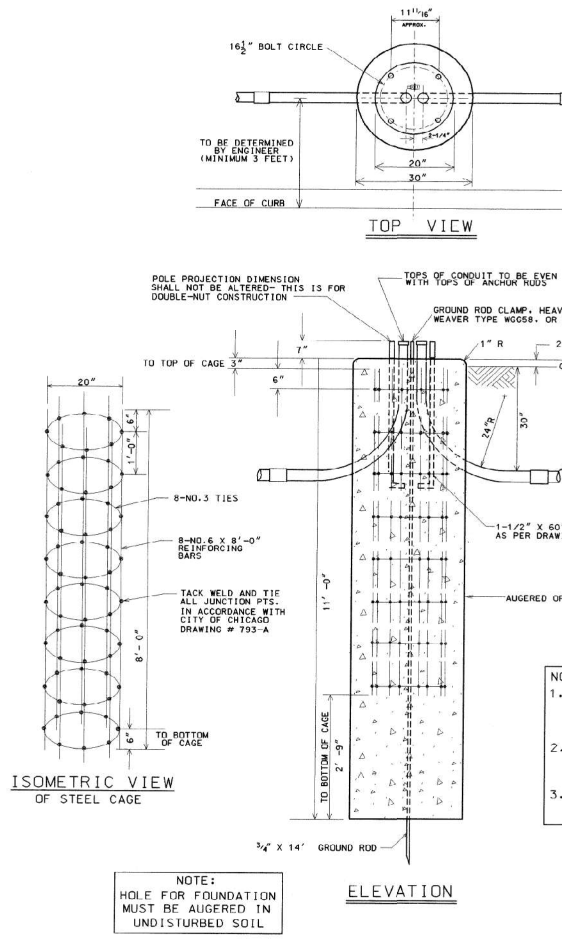
OPENING THROUGH WALL TO BE KEPT TO MININIMUN SIZE TO ADMIT CONDUIT AND SUFFICIENT GROUT TO ASSURE SEALING WALL.

INSTALLATION METHOD OF INSTALLING CONDUIT THRU MANHOLE WALL

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN	CHECKED	ENGINEER
A.M. JOHNSON	R. SYCKOWSKI	R.L. MARTIN

ENGINEER OF ELECTRICITY
SUPT. OF CONST.
DEPUTY COMM.
DRG. NO. 814
SIZE 8½"X14" SCALE N.T.S. DATE 3-13-81



NOTES:
1. THIS FOUNDATION FOR TRAFFIC POLE WITH 35', 40', & 44' MONOTUBE MAST ARM
2. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS SI CONCRETE.
3. REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

NOTE:
HOLE FOR FOUNDATION MUST BE AUGERED IN UNDISTURBED SOIL

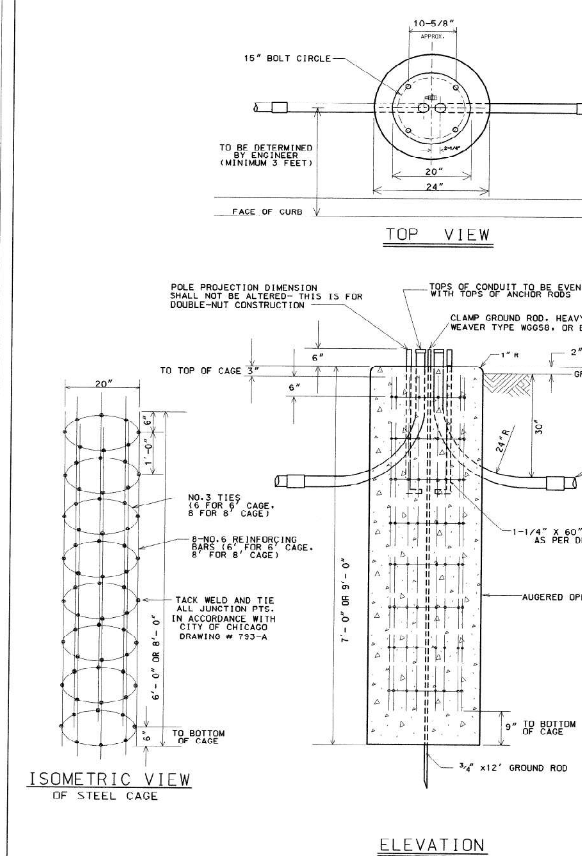
CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	2.20
09-4001-	ELBOW, LARGE RADIUS	2",2-1/2",3",4"	AS REQUIRED
37-8180-0200	ANCHOR ROD	1-1/2" X 60"	4
05-5054-6910	RE-BAR CAGE	20" Ø X 8'-0"	1
09-7796	GROUND ROD	3/4" X 14'-0"	1
09-2636-	GROUND ROD CLAMP	3/4"	1
09-2092-	GROUND BUSHING	2",2-1/2",3",4"	AS REQUIRED

DATE	REVISION
8/21/02	SUPERCEDES DWG #817 DRAWN 4/20/81

FOUNDATION FOR 34'-6" TRAFFIC SIGNAL POLE WITH 16½" BOLT CIRCLE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICIAL ENGINEERING

DRAFTSMAN: B. GARNSEY | CHIEF DRAFTSMAN: R. CARTER | ENGINEER: B. GARNSEY
ELECTRICAL DESIGN ENGINEER
ENGINEER OF ELECTRICITY
GENERAL SUPERINTENDENT
DEPUTY COMMISSIONER
SIZE: 11" x 17" | SCALE: NONE | DATE: 8/21/02
DRAWING NO. 817



NOTES:
1. 7 FOOT FOUNDATION FOR ARTERIAL STREET LIGHT POLE. UNLESS NOTED OTHERWISE. 9 FOOT FOUNDATION FOR TRAFFIC POLE WITH 16', 20', OR 26' MONOTUBE MAST ARM.
2. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS SI CONCRETE.
3. REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

NOTE: HOLE FOR FOUNDATION MUST BE AUGURED IN UNDISTURBED SOIL

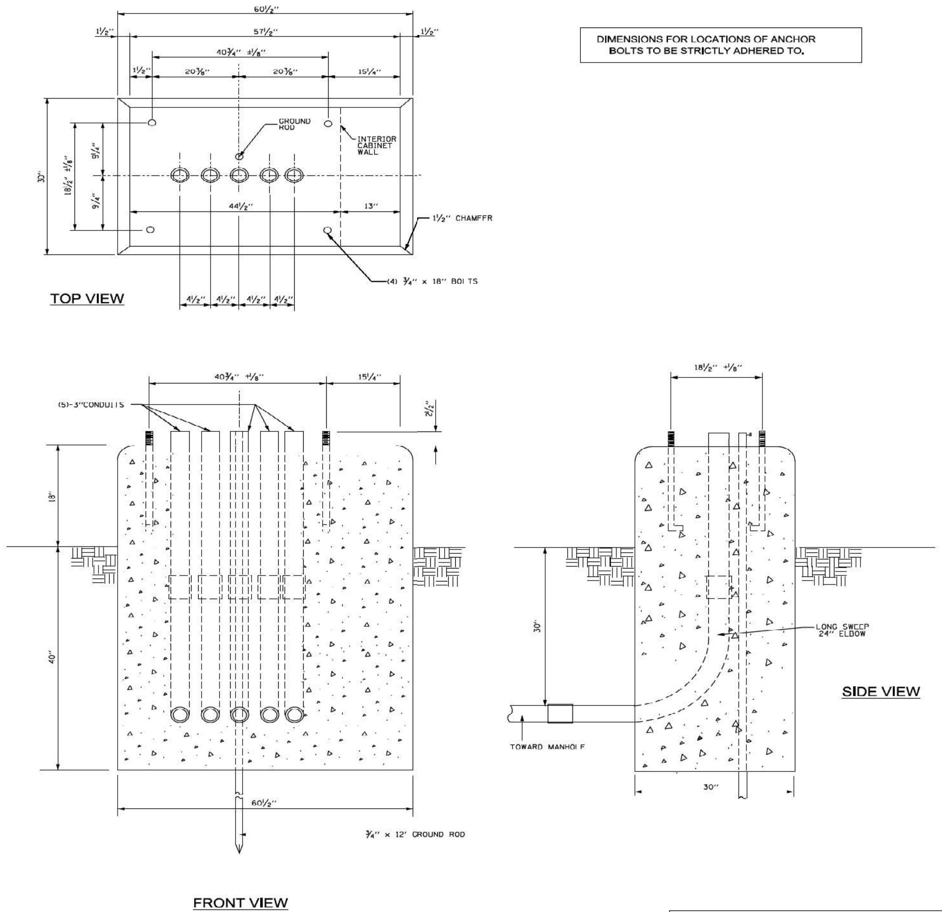
CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	0.82 OR 1.05
09-4001-	ELBOW, LARGE RADIUS	2",2-1/2",3",4"	VARIES
37-8180-0200	ANCHOR ROD	1-1/4" X 60"	4
05-5054-6910	RE-BAR CAGE	20" Ø X 6' (or 8')	1
09-7796-9200	GROUND ROD	3/4" X 12'-0"	1
09-2636-3240	GROUND ROD CLAMP	3/4 "	1
09-2092-	GROUND BUSHING	2",2-1/2",3" OR 4"	VARIES

DATE	REVISION
8/21/02	SUPERCEDES DWG #818 DRAWN 4/21/81

FOUNDATION FOR 34'-6" ARTERIAL STREET LIGHT OR TRAFFIC SIGNAL POLE - 3 OR 7 GAUGE WITH 15" BOLT CIRCLE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICIAL ENGINEERING

DRAFTSMAN: B. GARNSEY | CHIEF DRAFTSMAN: R. CARTER | ENGINEER: B. GARNSEY
ELECTRICAL DESIGN ENGINEER
ENGINEER OF ELECTRICITY
GENERAL SUPERINTENDENT
DEPUTY COMMISSIONER
SIZE: 11" x 17" | SCALE: NONE | DATE: 8/21/02
DRAWING NO. 818



TYPE SUPER "P" FOUNDATION
FOR BASE MOUNTED TRAFFIC SIGNAL CONTROL CABINET

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

REV	DATE	DESCRIPTION
D	2-28-22	CORRECTED GROUND ROD LENGTH
C	10-09-20	ADJUSTED ANCHOR ROD SPACING
B	6-10-05	LENGTH OF BASE TO 60 ½"
A	5-24-96	BOLT DIMENSIONS FOR P-38 & P-44 CABINETS

DRAFTSMAN: A. MAROTTA
ENGINEER: J. VONDRA
ENGINEER OF ELECTRICITY: J. ZHANG
DEPUTY COMMISSIONER:
SIZE: 16" | 21" SCALE: NONE DATE: 1/28/21
DWG. NO. 888A

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P 773.775.4009 | www.ciorba.com

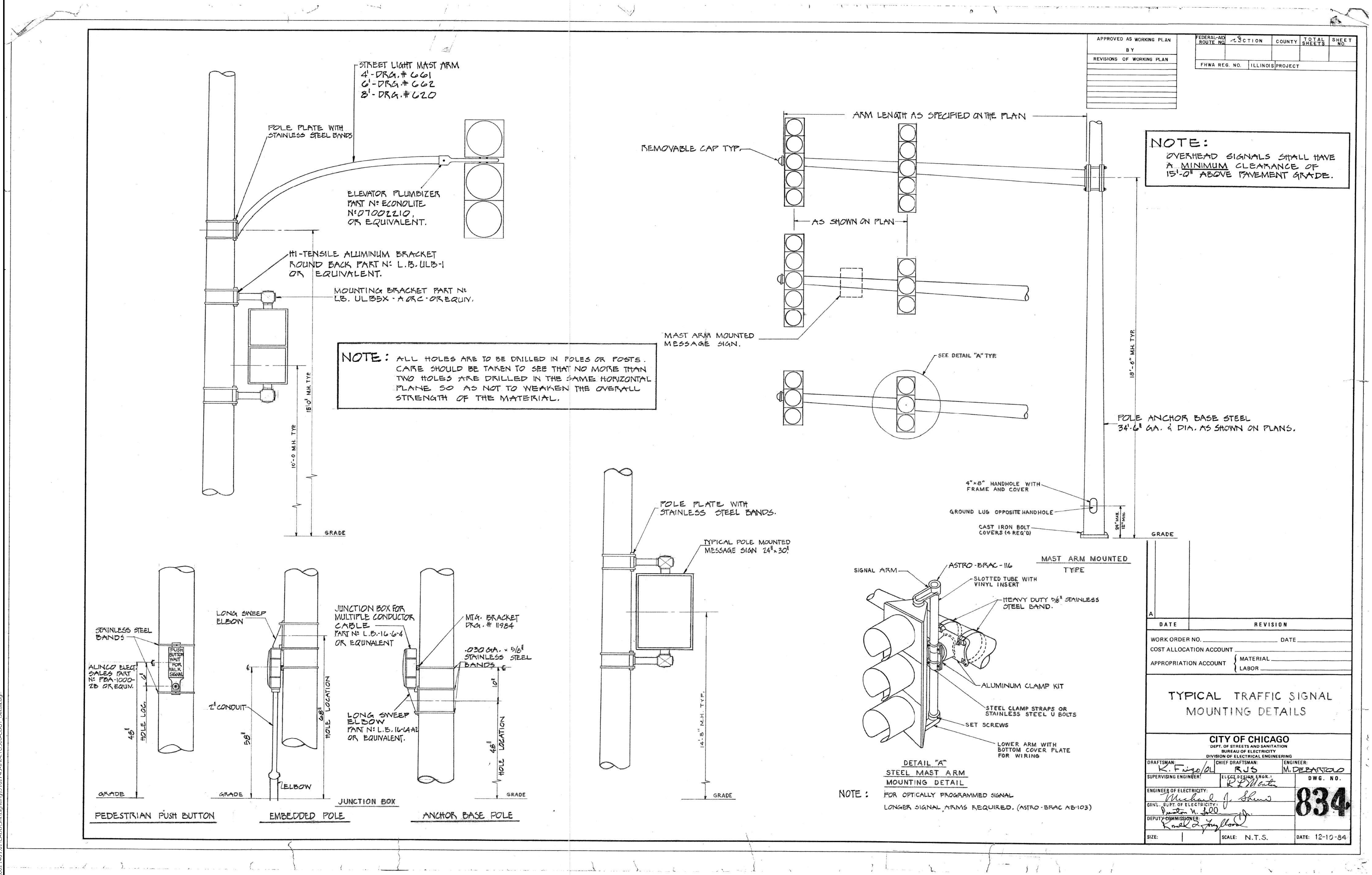
USER NAME = untitled	DESIGNED - DTJ	REVISED -
	DRAWN - DTJ	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	60
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		


STREET LIGHT MAST ARM
4'-DRG.# 661
6'-DRG.# 662
8'-DRG.# 620
POLE PLATE WITH STAINLESS STEEL BANDS
ELEVATOR PLUMBIZER PART Nº ECONOLITE Nº07002210, OR EQUIVALENT.
HI-TENSILE ALUMINUM BRACKET ROUND BACK PART Nº L.B. ULB-1 OR EQUIVALENT.
MOUNTING BRACKET PART Nº LB. ULB5X-A ORC-OR EQUIV.
NOTE: ALL HOLES ARE TO BE DRILLED IN POLES OR POSTS. CARE SHOULD BE TAKEN TO SEE THAT NO MORE THAN TWO HOLES ARE DRILLED IN THE SAME HORIZONTAL PLANE SO AS NOT TO WEAKEN THE OVERALL STRENGTH OF THE MATERIAL.
15'0" M.H. TYP.
10'-0 M.H. TYP.
GRADE
APPROVED AS WORKING PLAN BY
REVISIONS OF WORKING PLAN
FEDERAL-AID ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO.
FHWA REG. NO. | ILLINOIS | PROJECT
ARM LENGTH AS SPECIFIED ON THE PLAN
REMOVABLE CAP TYP.
AS SHOWN ON PLAN
NOTE: OVERHEAD SIGNALS SHALL HAVE A MINIMUM CLEARANCE OF 15'-0" ABOVE PAVEMENT GRADE.
MAST ARM MOUNTED MESSAGE SIGN.
SEE DETAIL "A" TYP.
18'-6" M.H. TYP.
POLE ANCHOR BASE STEEL 34'-6" GA. & DIA. AS SHOWN ON PLANS.
4"x8" HANDHOLE WITH FRAME AND COVER
GROUND LUG OPPOSITE HANDHOLE
CAST IRON BOLT COVERS (4 REQ'D)
GRADE
POLE PLATE WITH STAINLESS STEEL BANDS.
TYPICAL POLE MOUNTED MESSAGE SIGN 24"x30"
14'-8" M.H. TYP.
GRADE
STAINLESS STEEL BANDS
ALINCO ELECT. SALES PART Nº PBA-1000-2B OR EQUIV.
PUSH BUTTON WAIT FOR WALK SIGNAL
HOLE LOC.
48"
GRADE
PEDESTRIAN PUSH BUTTON
LONG SWEEP ELBOW
2" CONDUIT
38"
ELBOW
GRADE
EMBEDDED POLE
JUNCTION BOX FOR MULTIPLE CONDUCTOR CABLE PART Nº L.B.-16-6-4 OR EQUIVALENT
68" HOLE LOCATION
LONG SWEEP ELBOW PART Nº L.B.-16-4A2 OR EQUIVALENT.
JUNCTION BOX
MTG. BRACKET DRG.# 11984
.030 GA. x 5/8" STAINLESS STEEL BANDS
10"
48" HOLE LOCATION
GRADE
ANCHOR BASE POLE
SIGNAL ARM
ASTRO-BRAC-116
SLOTTED TUBE WITH VINYL INSERT
HEAVY DUTY 5/8" STAINLESS STEEL BAND.
MAST ARM MOUNTED TYPE
ALUMINUM CLAMP KIT
STEEL CLAMP STRAPS OR STAINLESS STEEL U BOLTS
SET SCREWS
LOWER ARM WITH BOTTOM COVER PLATE FOR WIRING
DETAIL "A" STEEL MAST ARM MOUNTING DETAIL
NOTE: FOR OPTICALLY PROGRAMMED SIGNAL LONGER SIGNAL ARMS REQUIRED. (ASTRO-BRAC AB-103)
DATE | REVISION
WORK ORDER NO. DATE
COST ALLOCATION ACCOUNT
APPROPRIATION ACCOUNT MATERIAL LABOR
TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING
DRAFTSMAN: K. Frigo/01
CHIEF DRAFTSMAN: RJS
ENGINEER: M. DEBARTOLO
SUPERVISING ENGINEER:
ELECT. DESIGN ENGR.:
DWG. NO. 834
ENGINEER OF ELECTRICITY:
GEN'L. SUPT. OF ELECTRICITY:
DEPUTY COMMISSIONER:
SIZE:
SCALE: N.T.S.
DATE: 12-10-84

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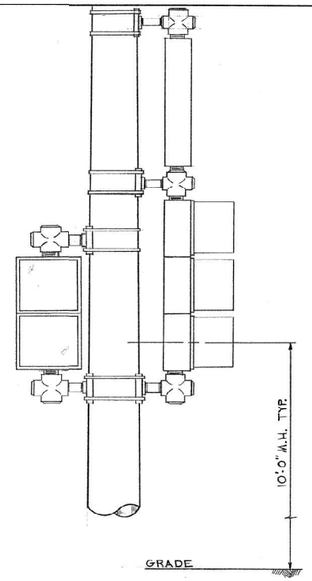
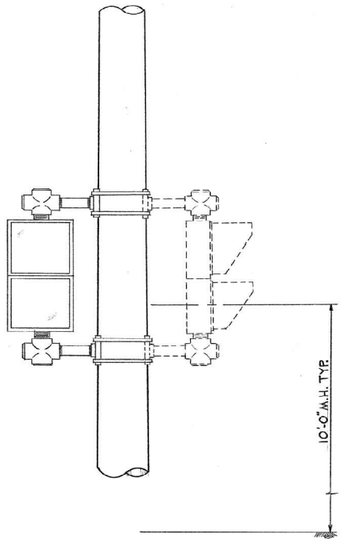
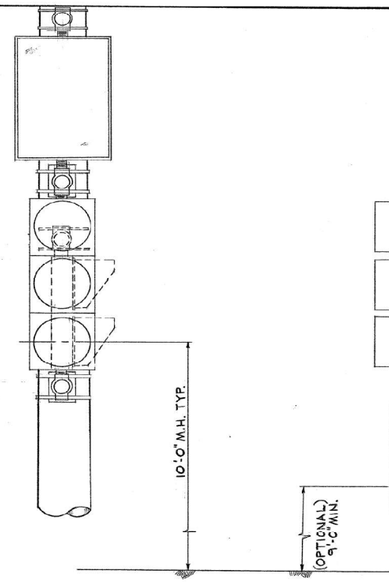
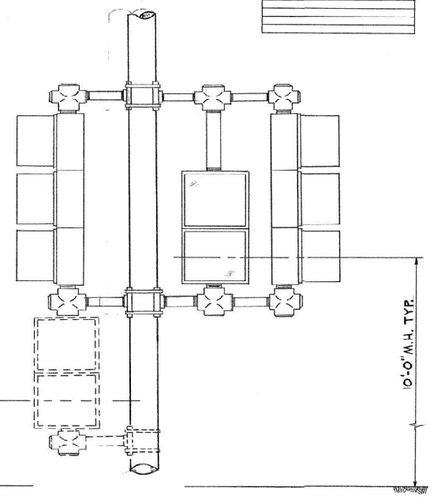
CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = untitled	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CDOT ELECTRICAL DETAILS	F.A.I. RTE.: 290	SECTION: 2021-120-BR
		DRAWN - DTJ	REVISED -			COUNTY: COOK	TOTAL SHEETS: 178
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -			SHEET NO.: 61	CONTRACT NO. 62P43
	PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

27889







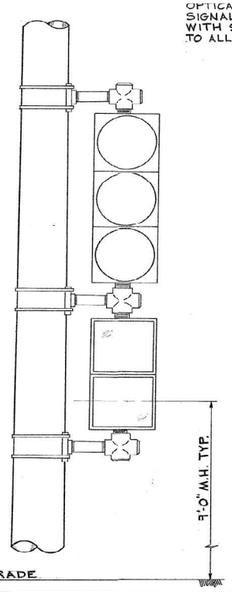


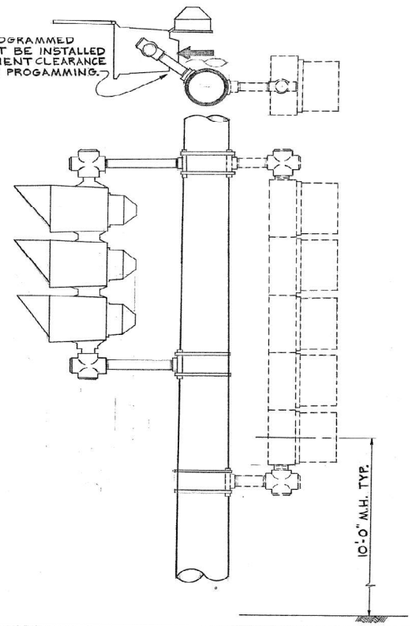
APPROVED AS WORKING PLAN
BY
REVISIONS OF WORKING PLAN

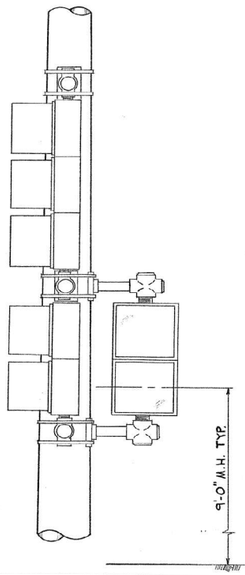
FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FHWA REG. NO.	ILLINOIS PROJECT			

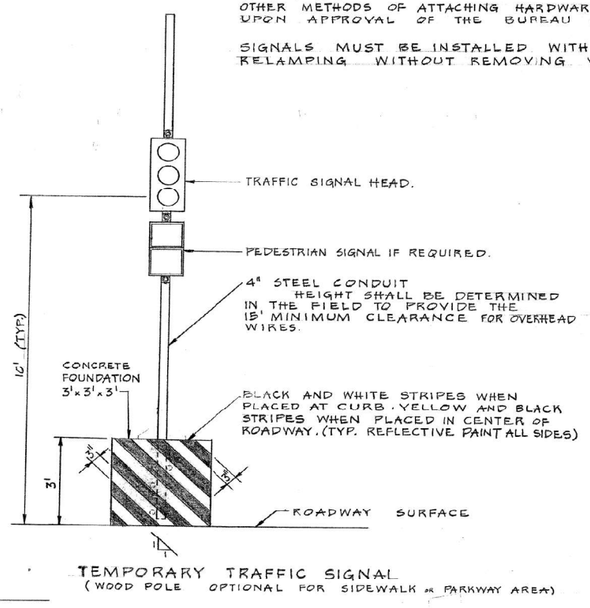
NOTE:
OTHER METHODS OF ATTACHING HARDWARE FOR SIGNAL HEADS MAY BE USED UPON APPROVAL OF THE BUREAU OF ELECTRICITY.

SIGNALS MUST BE INSTALLED WITH ADEQUATE CLEARANCE FOR RELAMPING WITHOUT REMOVING VISOR OR ROTATING SIGNAL.









TEMPORARY TRAFFIC SIGNAL
(WOOD POLE OPTIONAL FOR SIDEWALK OR PARKWAY AREA)

DATE	REVISION
A 3-5-93	ADDED TEMP. SIGNAL DETAIL

WORK ORDER NO. _____ DATE _____
COST ALLOCATION ACCOUNT _____
APPROPRIATION ACCOUNT { MATERIAL _____ / LABOR _____

TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
W. TROMPKA	R.J.S.	M. DeBARTOLO
SUPERVISING ENGINEER:	ELECT. DESIGN ENGR.: R. Monte	DWG. NO.
ENGINEER OF ELECTRICITY: Michael J. Sheridan		835
GEN. SUPT. OF ELECTRICITY: [illegible]		
DEPUTY COMMISSIONER: [illegible]		
SIZE: 22 | 36	SCALE: NONE	DATE: 12-10-84

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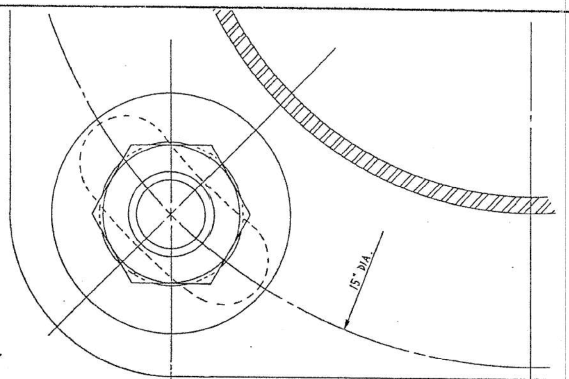
USER NAME = untitled	DESIGNED - DTJ	REVISED -
	DRAWN - DTJ	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	62
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



NOTE:
BOLT COVER
NOT SHOWN

INSTALLATION NOTES

STEP 1 COAT EXPOSED PORTION OF ANCHOR BOLTS WITH APPROVED ANTI RUSTING GREASE ("NO-OX" OR EQUAL).

STEP 2 INSTALL LOWER LEVELLING NUTS & WASHERS. SET AT PROPER GRADE WITH HAND LEVEL, USE TABLE FOR APPROPRIATE DIMENSIONS.

STEP 3 MOUNT POLE OR PEDESTAL, ATTACH TOP WASHERS & NUTS HAND TIGHT.

STEP 4 PLUMB POLE OR PEDESTAL AFTER ALL MASTARMS, STREET LIGHTS, TRAFFIC SIGNALS & OTHER APPURTENANCES ARE ATTACHED TO POLE & TIGHTEN ALL NUTS.

STEP 5 ATTACH NUT COVERS WHERE REQUIRED.

STEP 6 DO NOT GROUT IN SPACE BETWEEN BOTTOM OF POLE & TOP OF FOUNDATION. TOP OF FOUNDATION OR SURFACE OF SIDEWALK MUST BE LEFT CLEAN AND SMOOTH.

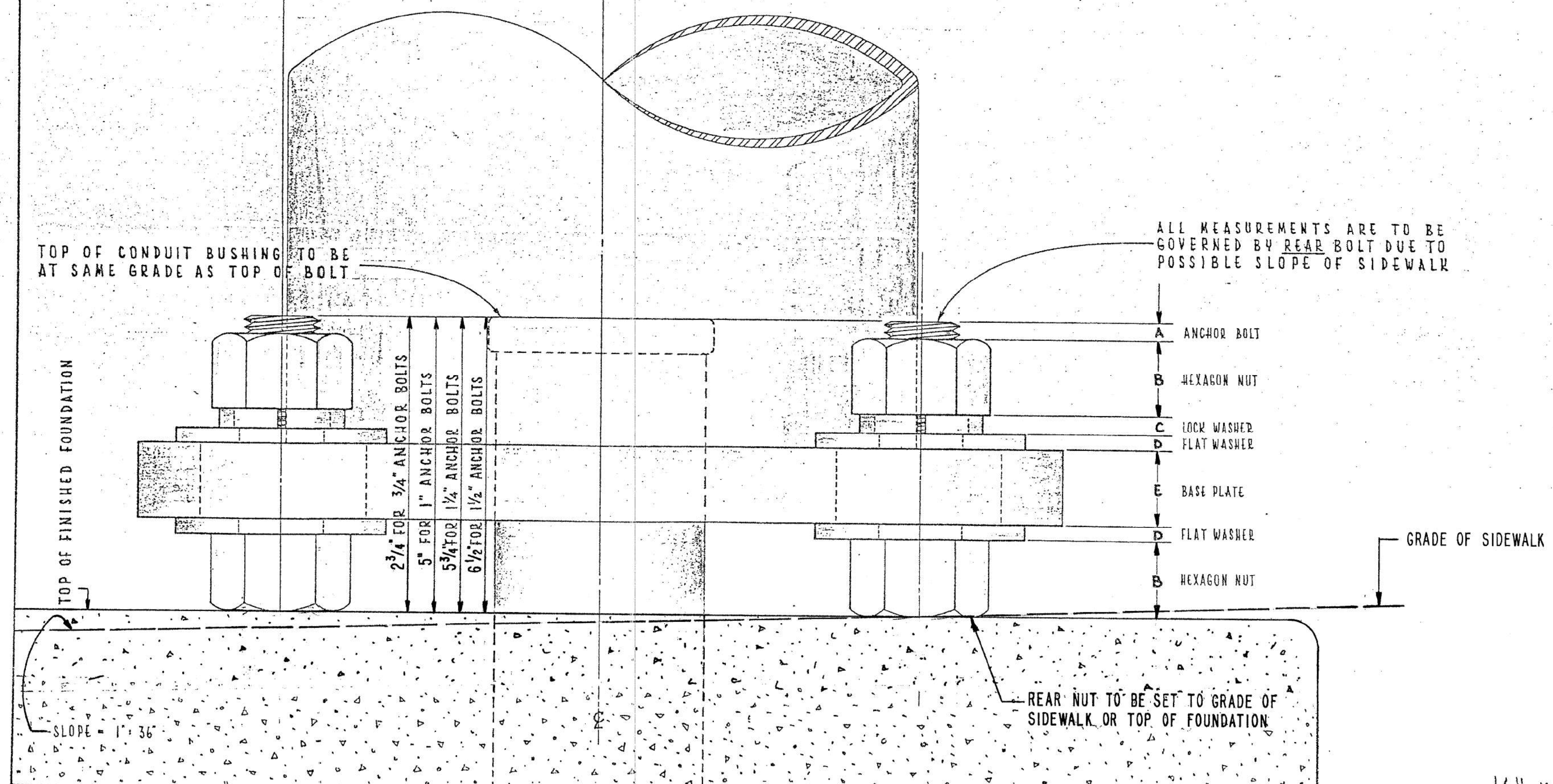
STEP 7 POLE OR PEDESTAL IS TO BE PERFECTLY PLUMB, NO "RAKE" IS TO BE LEFT.

IF NECESSARY:
ANCHOR BOLT TO BE TRIMMED WITH SAW. DO NOT BURN, AS THIS DRASTICALLY REDUCES THE TENSILE STRENGTH OF ANCHOR BOLT.

COAT ANCHOR BOLT WITH RUST-OLEUM HARD HAT ZINC RICH COMPOUND.

TABLE

UNIT	ANCHOR BOLT SIZE						
	1"		1¼"		1½"		¾"
	POLE GAUGES						ALUM. PED.
	7 GA.	3 GA.	7 GA.	3 GA.	7 GA.	3 GA.	
A	7/16"	7/16"	1⅛"	1 5/16"	1⅛"	⅞"	¾"
B	1"	1"	1¼"	1¼"	1½"	1½"	¾"
C	¼"	¼"	5/16"	5/16"	⅜"	⅜"	3/16"
D	5/32"	5/32"	¼"	¼"	¼"	¼"	5/32"
E	1"	1"	1¼"	1½"	1½"	1¾"	⅝"

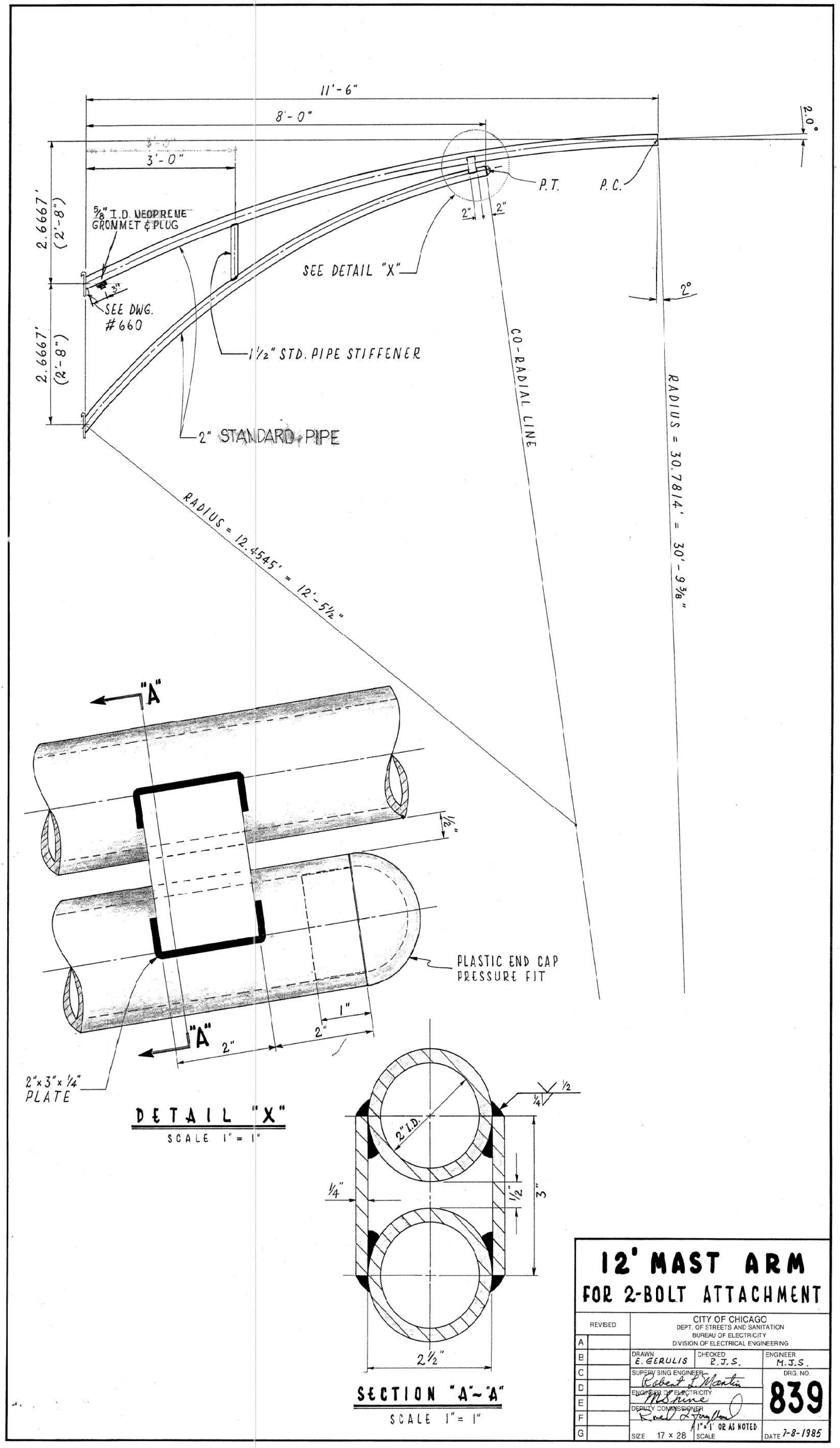


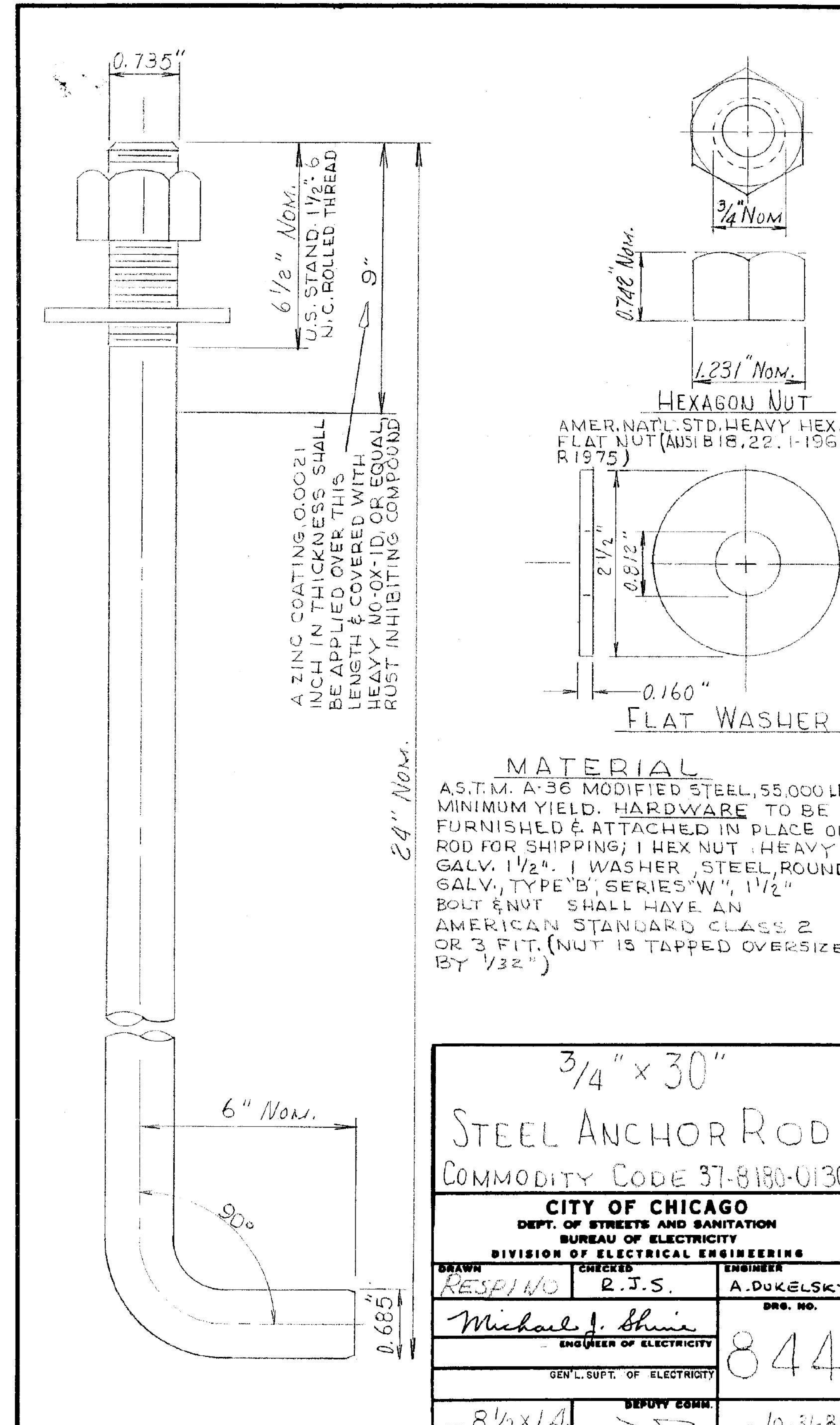
16" x 21"

CONSTRUCTION METHOD FOR "DOUBLE-NUT" INSTALLATION OF POLES AND PEDESTALS

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
EUGENE GERULIS	R.J.S.	M.J.S.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO. 837
ENGINEER OF ELECTRICITY: Michael J. Shine		
GEN'L. SUPT. OF ELECTRICITY		
DEPUTY COMMISSIONER: Ronald [illegible]		
SIZE: 22 3 1	SCALE: 1" = 1"	DATE: 6-7-85


11'-6"
8'-0"
3'-0"
2.0°
P.T.
P.C.
2"
2"
2.6667' (2'-8")
2.6667' (2'-8")
5/8" I.D. NEOPRENE GROMMET & PLUG
SEE DWG. #660
SEE DETAIL "X"
1 1/2" STD. PIPE STIFFENER
2" STANDARD PIPE
CO-RADIAL LINE
RADIUS = 30.7814' = 30'-9 3/8"
RADIUS = 12.4545' = 12'-5 1/2"
"A"
"A"
PLASTIC END CAP PRESSURE FIT
2"x3"x1/4" PLATE
1"
2"
2"
DETAIL "X"
SCALE 1" = 1"
2" I.D.
1/4"
1/2"
3"
2 1/2"
SECTION "A"-"A"
SCALE 1" = 1"
12' MAST ARM
FOR 2-BOLT ATTACHMENT
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING
DRAWN E. GERULIS
CHECKED R.J.S.
ENGINEER M.J.S.
DRG. NO. 839
SIZE 17 x 28
SCALE 1"=1' OR AS NOTED
DATE 1-8-1985


0.735"
6 1/2" NOM.
U.S. STAND. 1 1/2"-6 N.C. ROLLED THREAD
9"
A ZINC COATING 0.0021 INCH IN THICKNESS SHALL BE APPLIED OVER THIS LENGTH & COVERED WITH HEAVY NO-OX-ID, OR EQUAL RUST INHIBITING COMPOUND
24" NOM.
6" NOM.
90°
0.685"
3/4" NOM
0.748" NOM.
1.231" NOM.
HEXAGON NUT
AMER. NAT'L. STD. HEAVY HEX. FLAT NUT (ANSI B18.22.1-1965, R1975)
2 1/2"
0.812"
0.160"
FLAT WASHER
MATERIAL
A.S.T.M. A-36 MODIFIED STEEL, 55,000 LBS MINIMUM YIELD. HARDWARE TO BE FURNISHED & ATTACHED IN PLACE ON ROD FOR SHIPPING; 1 HEX NUT, HEAVY GALV. 1 1/2". 1 WASHER, STEEL, ROUND GALV., TYPE "B", SERIES "W", 1 1/2" BOLT & NUT SHALL HAVE AN AMERICAN STANDARD CLASS 2 OR 3 FIT. (NUT IS TAPPED OVERSIZE BY 1/32")
3/4" x 30"
STEEL ANCHOR ROD
COMMODITY CODE 37-8180-0130
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING
DRAWN RESPINO
CHECKED R.J.S.
ENGINEER A. DUKELSKY
DRG. NO. 844
ENGINEER OF ELECTRICITY
GEN'L. SUPT. OF ELECTRICITY
DEPUTY COMM.
SIZE 8 1/2 x 14
SCALE
DATE 10-31-85

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	DRAWN - DTJ	REVISED -	
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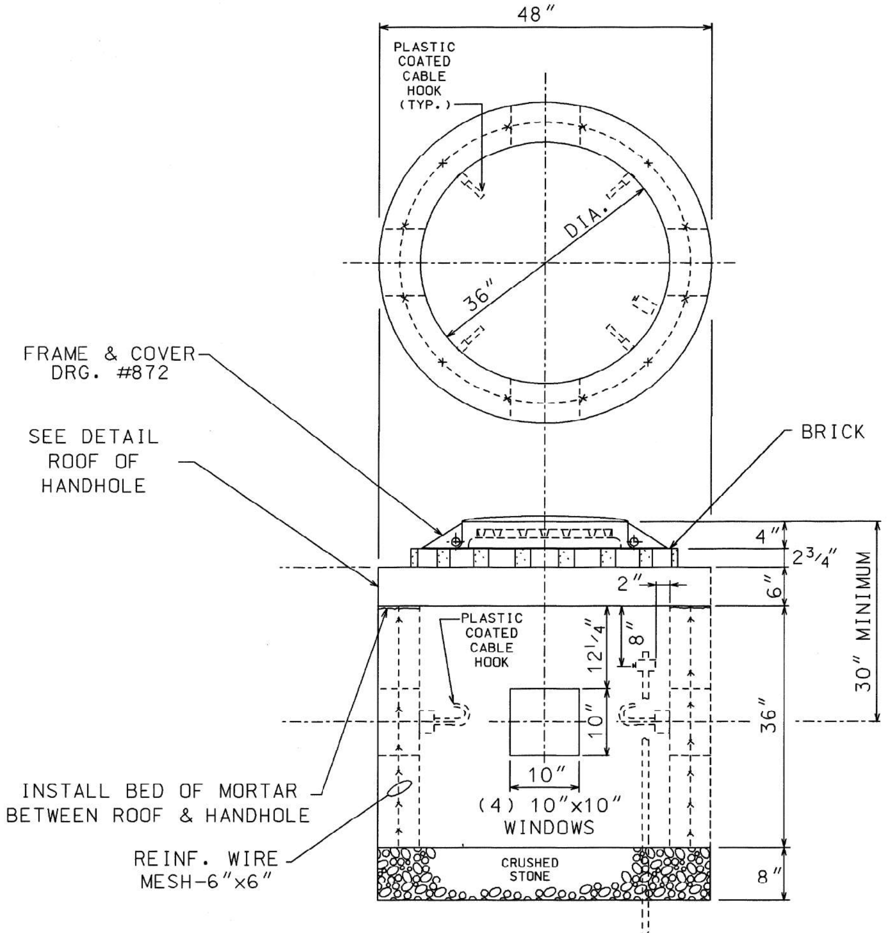
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	64
		CONTRACT NO. 62P43		
		ILLINOIS	FED. AID PROJECT	

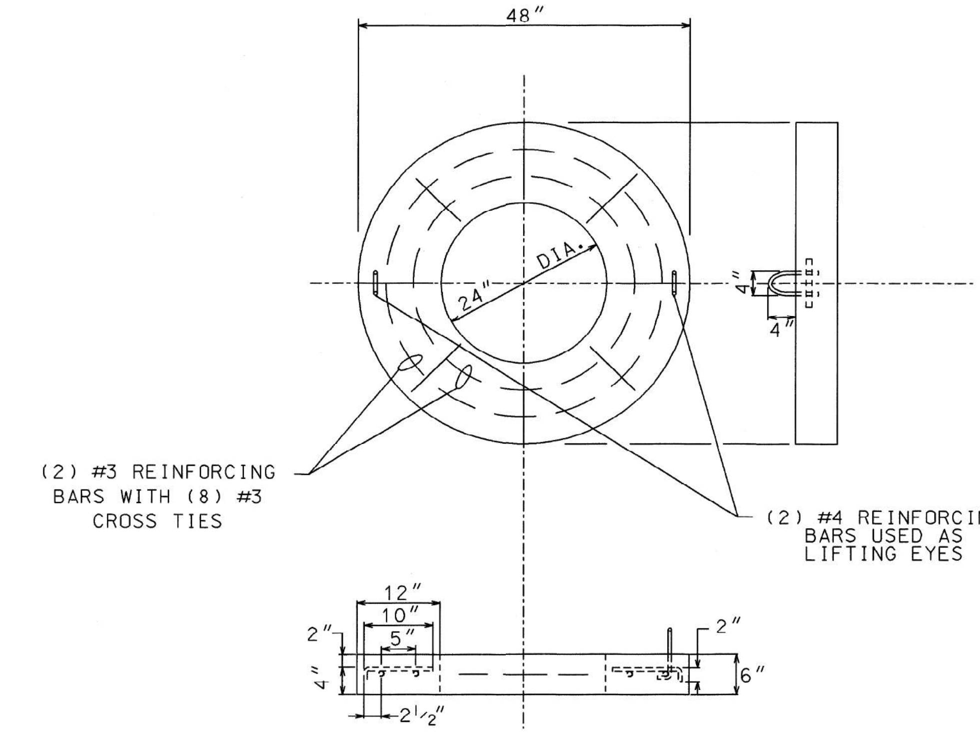
TOP VIEW
FRAME, COVER & TOP OF HANDHOLE REMOVED



SIDE ELEVATION

COMPLETE COMMODITY CODE NO. 05-6610-5310M			
CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5312	PRE-CAST HANDHOLE	36" X 36"	
(2) 05-6610-5312	PRE-CAST ROOF	SEE DETAIL	1
05-9075-5470	STONE 3/4" CRUSHED SCREENINGS	BAG	5
05-1452-9720	BRICK		24
02-4299-5524	FRAME, MANHOLE	24"	1
02-4574-5624	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4" x12'	1
09-2636-3240	GROUND CLAMP		1
(3) 05-5082-5330	SONO TUBE	36"	1
(3) 05-5082-5342	SONO TUBE	48"	1
(3) 05-3267-2940	CONC. REDI-MIX	CU. YD.	3/4
(3) 20-5472-9630	REINFORCING BAR	#3 (3/8")	20'
(3) 20-5472-9630	REINFORCING BAR	#3 (3/8")	8'
(3) 20-5472-9640	REINFORCING BAR	#4 (1/2")	4'
(3) 57-0770-0000	(MESH (6" X6")	36" X 11'	1

(1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCK-OUTS.
(2) PRE-CAST ROOF SHALL INCLUDE LIFTING EYES.
(3) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.



DETAIL-ROOF OF HANDHOLE

CONSTRUCTION NOTES:

1 - 8" BED OF STONE FOR DRAINAGE.

2 - ALL METALLIC CONDUIT(S) ENTERING HANDHOLE SHALL EXTEND MIN. 1" & MAX. OF 3" INSIDE INNER WALL & BE EQUIPPED WITH AN APPROVED TYPE THREADED GROUNDING BUSHING.

	DATE	REVISION	
B	01-23-00	ADDED CABLE HOOKS PER COMMISSIONER MURPHY	(RC/RI)
A		REDRAW (CAD.)	MP.

36" DIA. HEAVY DUTY CONCRETE HANDHOLE WITH 24" FRAME & COVER

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: M. PATTON | CHIEF DRAFTSMAN: B. CARTER | ENGINEER: W. TROMPKA M. DEBARTOLO
SUPERVISING ENGINEER: | ELEC. DESIGN ENGR.:
ENGINEER OF ELECTRICITY:
GEN'L SUPT. OF ELECTRICITY:
DEPUTY COMMISSIONER:
DWG. NO. 866
SIZE: 17" | 22" SCALE: NONE DATE: 1-12-96

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$$PRF$SPEC$$
$$DATE$TIME$$
$$PEN$SPEC$$

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	DRAWN - DTJ	REVISED -
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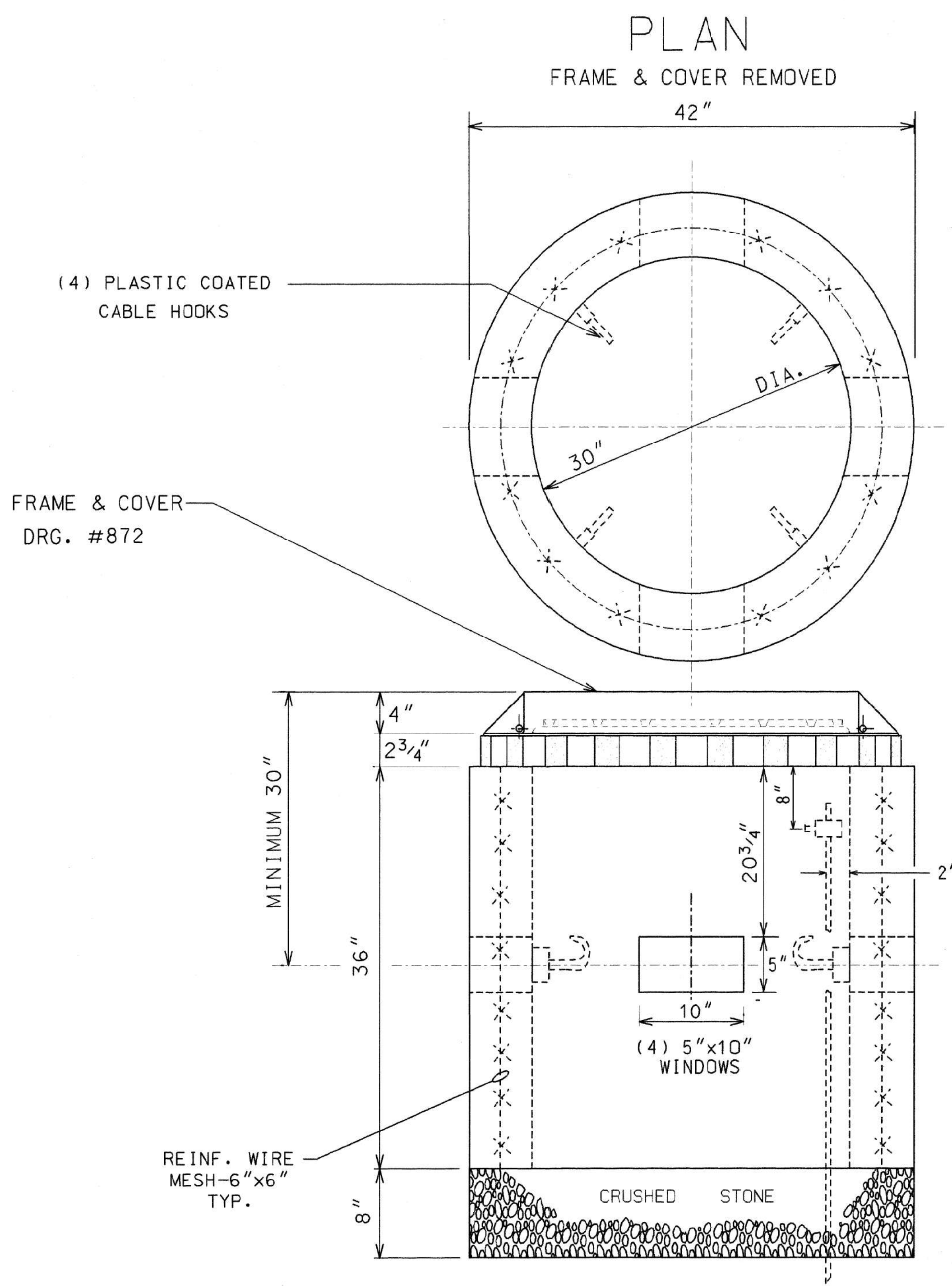
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	65
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



COMPLETE COMMODITY CODE NO. 05-6610-5310M			
CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5310	PRE-CAST HANDHOLE	30"X36"	1
(2) 05-9075-5470	STONE 3/4" CRUSHED	BAG	5
(2) 05-5082-5330	SONO TUBE	30"	1
(2) 05-5082-5342	SONO TUBE	42"	1
(2) 05-3267-2940	CONC. REDI-MIX	CU. YD.	1/2
(2) 57-0770-0000	6" X 6" MESH	36"X10'	1
05-1452-9720	BRICK		24
02-4299-5524	FRAME MANHOLE	24"	1
02-4574-5040	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4"X12'	1
09-2630-3240	GROUND CLAMP		1

(1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCKOUTS.
(2) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.

CONSTRUCTION NOTES:

1. 8" BED OF STONE FOR DRAINAGE.
2. ALL METALLIC CONDUITS ENTERING HANDHOLE SHALL EXTEND MINIMUM 1" & MAXIMUM 3" INSIDE INNER WALL AND BE EQUIPPED WITH AN APPROVED TYPE OF THREADED GROUNDING BUSHING.

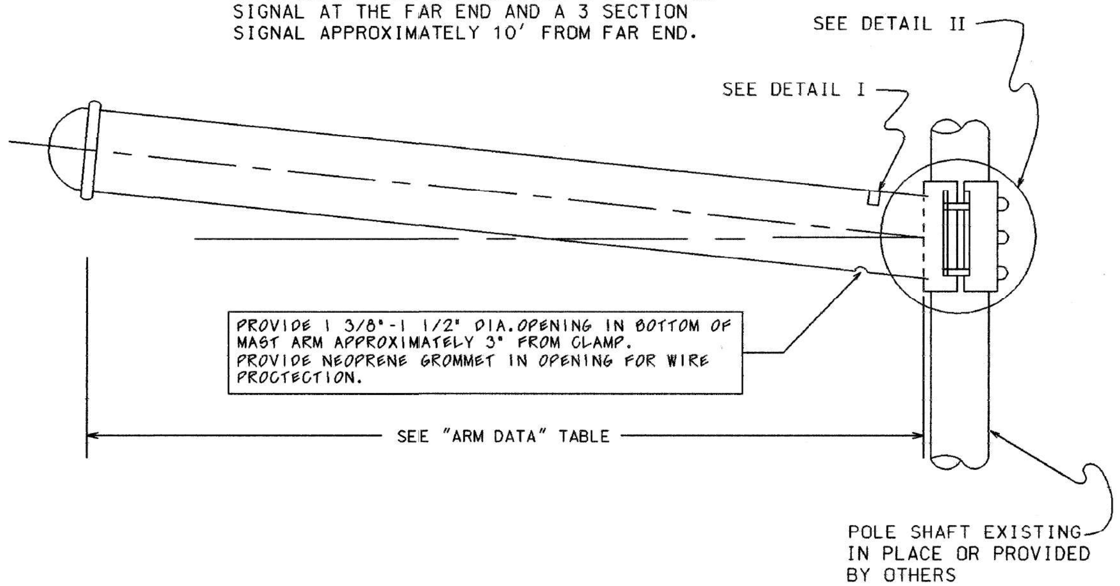
	DATE	REVISION	
B	01-23-00	ADDED CABLE HOOKS PER COMMISSIONER MURPHY	(RC/RI)
A	12-8-95	REDRAW (CAD)	MP.

30" DIA. CONCRETE HANDHOLE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: M. PATTON | CHIEF DRAFTSMAN: B. CARTER | ENGINEER: TROMPKA DEBARTOLO
SUPERVISING ENGINEER: | ELEC. DESIGN ENGR.:
ENGINEER OF ELECTRICITY:
GEN'L SUPT. OF ELECTRICITY:
DEPUTY COMMISSIONER: B. Murphy
DWG. NO. 867
SIZE: 11" 17" | SCALE: NONE | DATE: 12-8-95

PROVIDE SUFFICIENT MAST ARM RISE (3° MIN.) SO THAT MAST ARM REMAINS SLIGHTLY ABOVE HORIZONTAL WHEN LOADED WITH A 5 SECTION SIGNAL AT THE FAR END AND A 3 SECTION SIGNAL APPROXIMATELY 10' FROM FAR END.

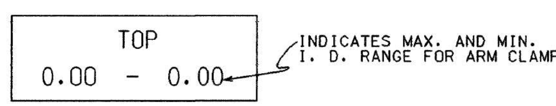


ARM DATA

CLAMP RANGE (INCHES)	POLE END (INCHES)	SIGNAL END (INCHES)	LENGTH (FEET)	GAUGE	WEIGHT (POUNDS)	TEST LOAD (POUNDS)	MAX. DEFLECTION (INCHES)
7.45-7.95	7.0	4.76	16	7	241	1700	6.5
7.45-7.95	7.0	4.20	20	7	274	1300	12.0
7.45-7.95	7.0	3.36	26	7	315	1000	24.0
8.45-8.95	8.0	3.80	30	7	409	1100	29.0
9.95-10.45	9.0	4.10	35	7	529	1200	36.0
9.95-10.45	9.0	3.40	40	7	559	1000	52.0
9.95-10.45	10.0	3.84	44	7		1200	57.0

NOTES:

1. TRAFFIC SIGNAL ARM SHAFT ASTM DESIGNATION: A595 GRADE C, 60,000 PSI MINIMUM YIELD STRENGH WITH A LINEAR TAPER -0.14"/FT.
2. TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3 SET SCREWS AND 1 THRU ARM END BOLT. (PLATED HARDWARE)
3. ALL THREADED FASTENERS TO BE GALVANIZED TO ASTM DESINATION: A153
4. ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS.
5. ALL ARM END CAPS AND ARM CLAMPS TO BE FULLY ASSEMBLED AND ATTACHED TO THE ARM PRIOR TO SHIPPING.
6. ARM ASSEMBLY TO BE DEGREASED; CLEANED; CHEMICALLY PRETREATED; GIVEN AN EXTERIOR THERMOSETTING POLYESTER POWDER COAT; AND AN INTERIOR THERMOPLASTIC HYDROCARBON RESIN POWDER COAT. ALL PAINTING TO BE IN ACCORDANCE WITH SPECIFICATION 1454, SECTION 8, "PAINTING".
7. MAST ARM SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION 1454, SECTION 9 WITH TEST VALUES AS SHOWN ON THE "ARM DATA" TABLE.
8. HOLE IN CLAMP TO BE 4.0" (MIN.). HOLE TO BE GROUND SMOOTH AND DEBURRED TO PROVIDE A SMOOTH WIRE ENTRY FROM POLE TO MAST ARM.

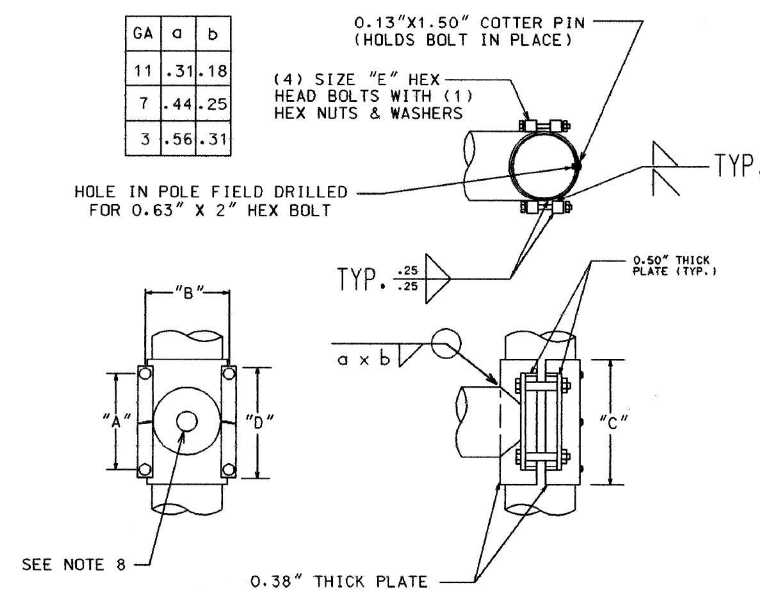


I. D. TAG TO BE MOUNTED ON THE TOP OF THE POLE AS INDICATED. USING 2 "GRIP-NAIL" FASTENERS.

DETAIL I

I. D. TAG

GA	a	b
11	.31	.18
7	.44	.25
3	.56	.31



DETAIL II

ARM ATTACHMENT

SIGNAL ARM ATTACHMENT DATA					
CLAMP RANGE	"A"	"B"	"C"	"D"	"E"
7.45" - 7.95"	7.25"	9.92"	10.80"	10.32"	1.00" X 7.50"
8.45" - 8.95"	9.00"	10.66"	13.06"	12.50"	1.00" X 8.00"
9.95" - 10.45"	10.25"	12.66"	15.30"	13.50"	1.25" X 8.50"

B	10-29-02	REFERENCES SPEC. 1454
A	8-6-93	WIRE OPENING ON MAST ARM
	DATE	REVISION

SUPERSEDES DWG. DATED DEC. 1991

STEEL TRAFFIC SIGNAL MAST ARM-MONOTUBE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: R. IVY | CHIEF DRAFTSMAN: ROBERT CARTER | ENGINEER: RON POOL

SUPERVISING ENGINEER | ELEC. DESIGN ENGR.

ENGINEER OF ELECTRICITY

GEN'L. SUPT. OF ELECTRICITY

DEPUTY COMMISSIONER:

870

SIZE: 16" 22" SCALE: DATE: DEC. 1991

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PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

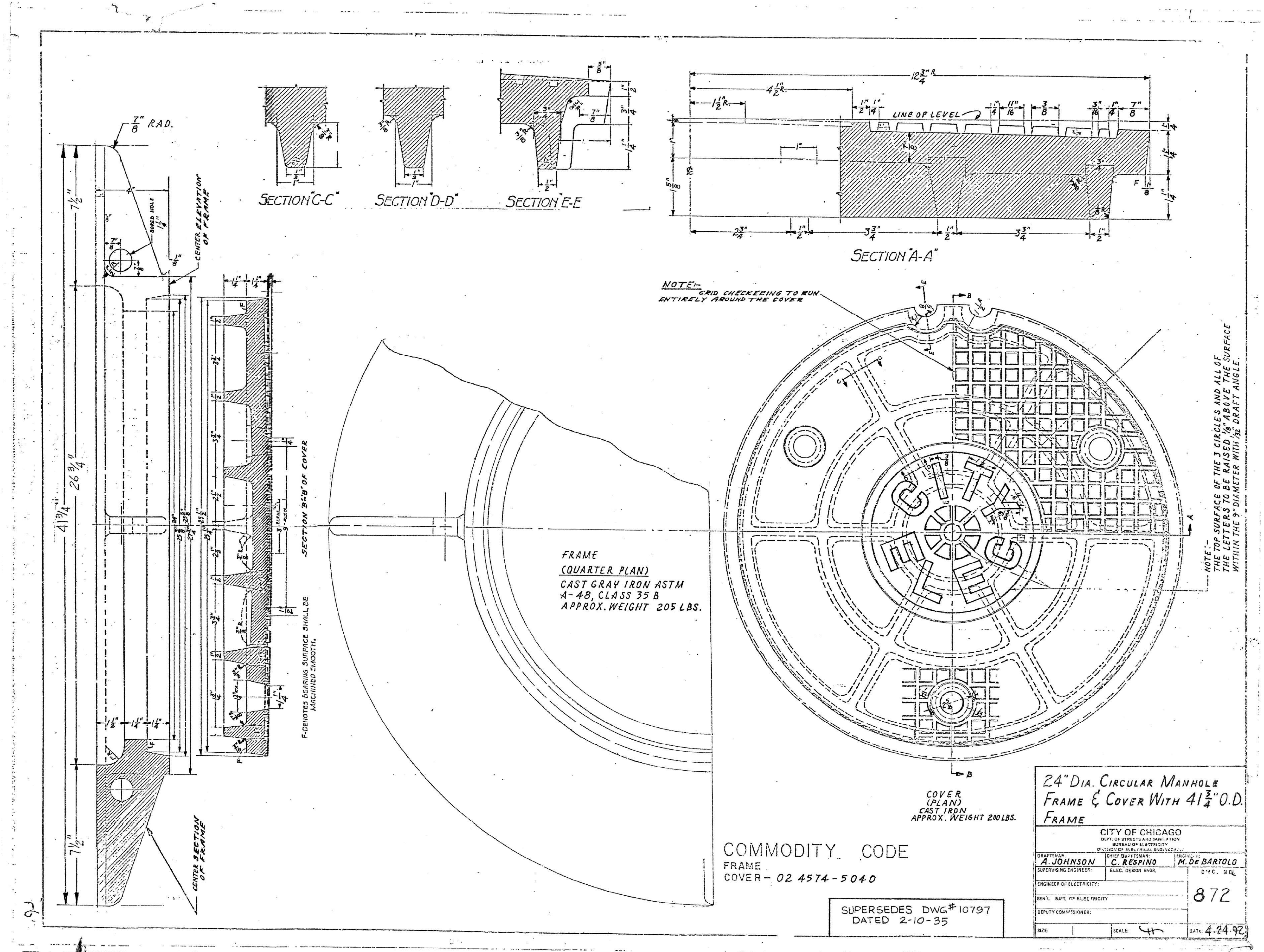
CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	67

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT



SECTION "C-C"
SECTION "D-D"
SECTION "E-E"
SECTION "A-A"
LINE OF LEVEL
7/8" RAD.
BORED HOLE
CENTER ELEVATION OF FRAME
SECTION "B-B" OF COVER
F-DENOTES BEARING SURFACE SHALL BE MACHINED SMOOTH.
CENTER SECTION OF FRAME
NOTE:- GRID CHECKERING TO RUN ENTIRELY AROUND THE COVER
NOTE:- THE TOP SURFACE OF THE 3 CIRCLES AND ALL OF THE LETTERS TO BE RAISED 1/8" ABOVE THE SURFACE WITHIN THE 9" DIAMETER WITH 1/32 DRAFT ANGLE.
CITY ELEC
FRAME
(QUARTER PLAN)
CAST GRAY IRON ASTM A-48, CLASS 35 B
APPROX. WEIGHT 205 LBS.
COVER
(PLAN)
CAST IRON
APPROX. WEIGHT 200 LBS.
COMMODITY CODE
FRAME
COVER - 02 4574-5040
SUPERSEDES DWG# 10797
DATED 2-10-35
24" DIA. CIRCULAR MANHOLE FRAME & COVER WITH 41 3/4" O.D. FRAME
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING
DRAFTSMAN: A. JOHNSON
CHIEF DRAFTSMAN: C. RESPINO
ENGINEER: M. DE BARTOLO
SUPERVISING ENGINEER:
ELEC. DESIGN ENGR.
DWG. NO.
872
ENGINEER OF ELECTRICITY:
GEN'L. SUPT. OF ELECTRICITY
DEPUTY COMMISSIONER:
SIZE:
SCALE:
DATE: 4-24-92

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USER NAME = untitled	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DTJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -	

CDOT ELECTRICAL DETAILS

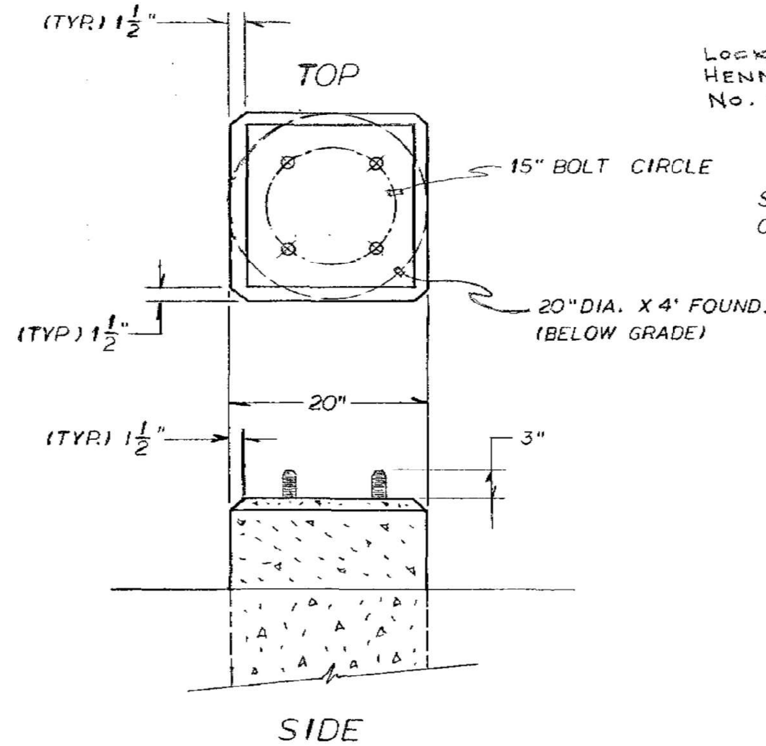
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

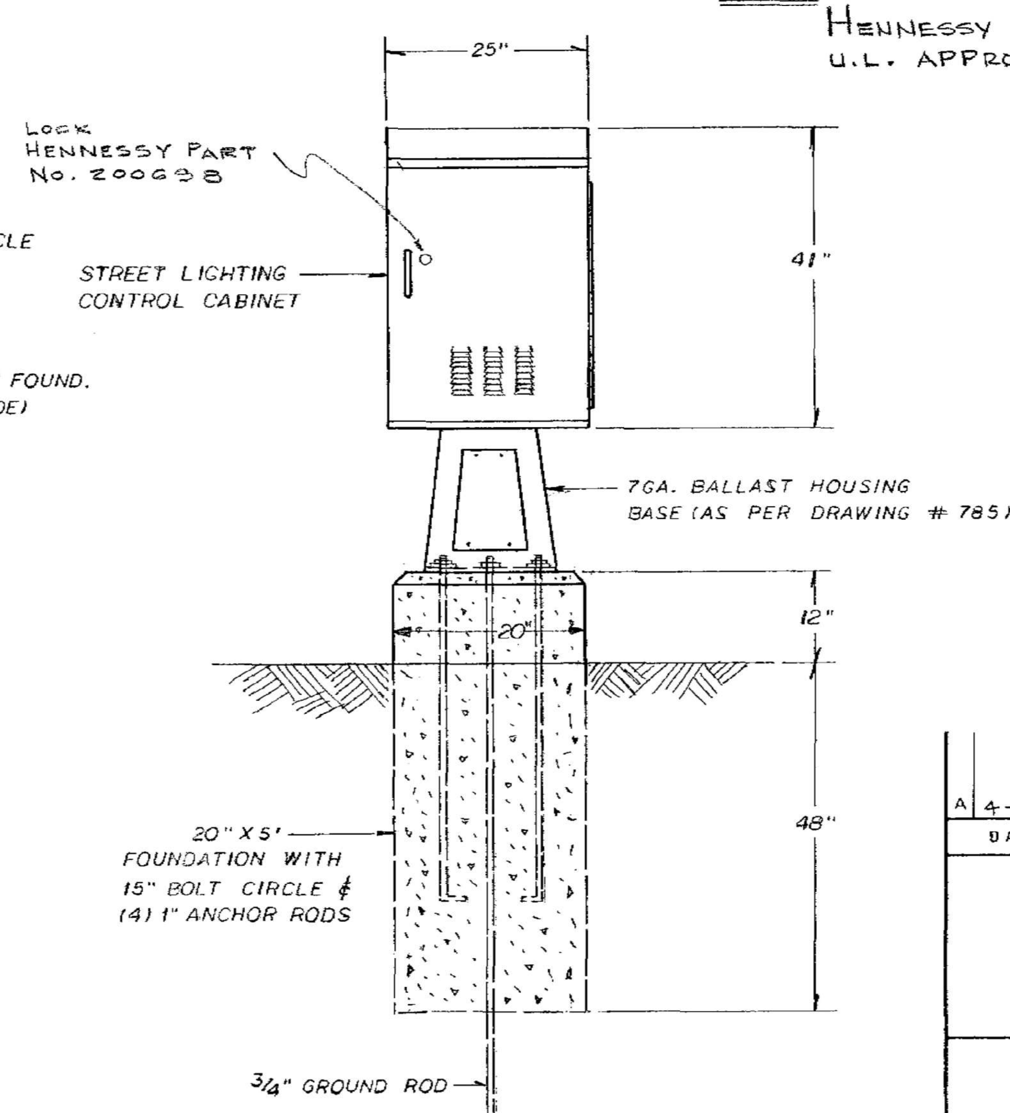
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	68
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

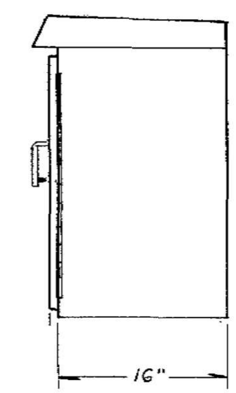
- DRILL (4) 1/2" DIA. HOLES IN BOTTOM OF CABINET & TOP OF BALLAST HOUSING BASE. BOLT CABINET TO B.H.B. USING (4) 3/8" X 2 1/2" BOLTS.
- OPENINGS IN BOTTOM OF CABINET & TOP OF B.H.B. MAY BE ENLARGED TO A MAX. OF 5" X 10" TO FACILITATE ADDITIONAL CABLE.
- NUMBER & SIZE OF CONDUITS TO BE SHOWN ON CONSTRUCTION DRAWINGS.
- SEE DRAWING # 884 FOR ELECTRICAL PANEL DETAILS.
- SEE DRAWINGS # 862 & 864 FOR WIRING DIAGRAM.

CODE	DRWG.	MATERIAL	SIZE	QUANT.
05-5082-5324	—	FIBER FORM	20" ø	4'
05-3267-2940	—	CONCRETE	CU. YD.	0.7
37-8180-0236	811	ANCHOR ROD	1" X 60"	4
09-7796-9200	—	GROUND ROD	3/4" X 10'	1
09-2636-3240	—	CLAMP, GROUND ROD	3/4"	1
09-3392-7850		CABINET ALUMINUM	41"X25"X16"	1
37-2130-4280	785	BALLAST HOUSING BS	1'-4" X 1'-8"	1

NOTE:
HENNESSY "G" CABINET # 212374 OR U.L. APPROVED EQUIVALENT.







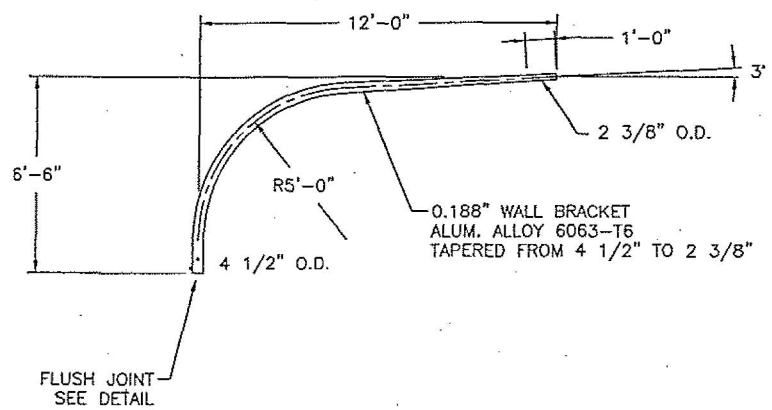
A	4-26-93	CAB. No. CHANGED CITY NAME REMOVED
	DATE	REVISION

200 AMP.
BASE MOUNTED STREET LIGHT CONTROLLER

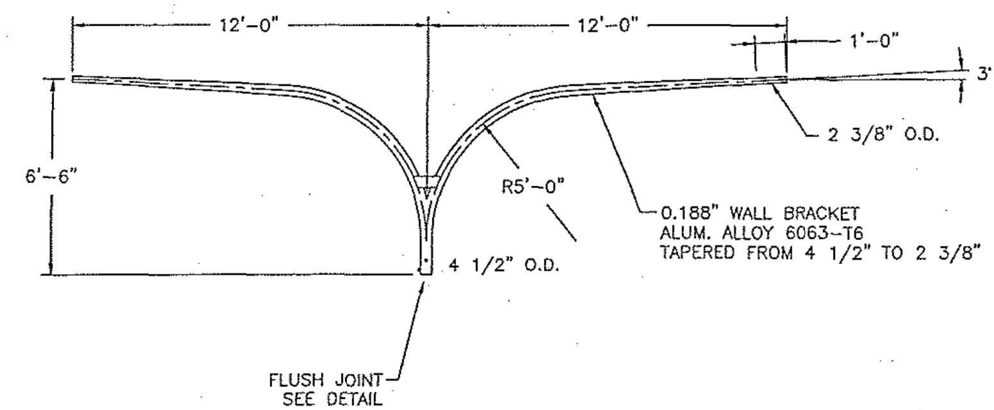
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: ARMANDO VIVANCO | CHIEF DRAFTSMAN: CARMEN RESPINO | ENGINEER: M. DEBARTOLO
SUPERVISING ENGINEER: D. Carlson | ELEC. DESIGN ENGR.
ENGINEER OF ELECTRICITY: A. Dubelsky
GEN'L. SUPT. OF ELECTRICITY
DEPUTY COMMISSIONER:
DWG. NO. 880
SIZE: 16 | 21 SCALE: DATE:

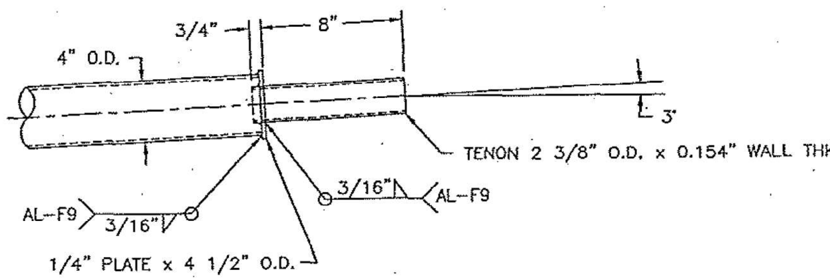
544717
CENTURY BLUE PRINT 90280 1/87



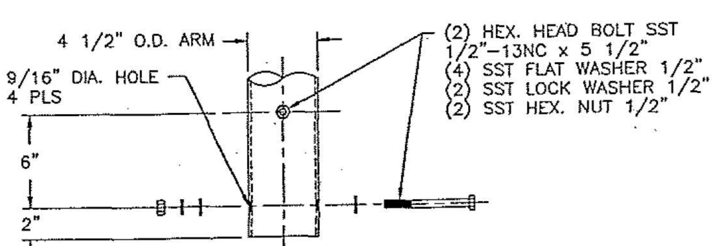
SINGLE DAVIT ARM



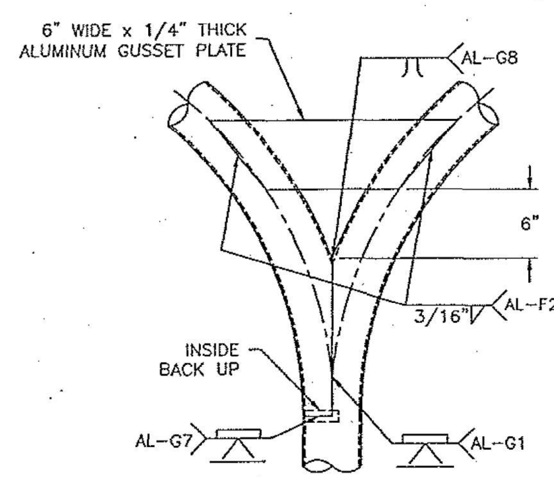
TWIN DAVIT ARM AT 180°



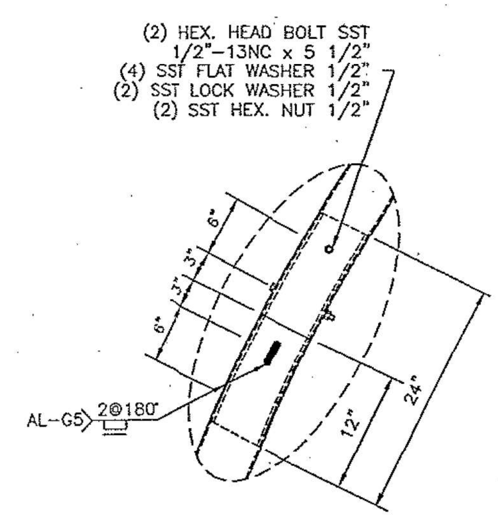
DETAIL OF TENON



DETAIL OF FLUSH JOINT



TWIN ARM (180°) WELD DETAIL



SPLICE DETAIL

REVISED	06-15-2012

ALUMINUM DAVIT ARM
4.5" x 12'-0"

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN: | CHIEF DRAFTSMAN: | ENGINEER:
SUPERVISING ENGINEER: | ELEC. DESIGN ENGR.:
ENGINEER OF ELECTRICITY:
GEN'L SUPT. OF CONSTRUCTION:
DEPUTY COMMISSIONER:
SIZE: | SCALE: | DATE: 1-29-02

DWG. NO. 946

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P 773.775.4009 | www.ciorba.com

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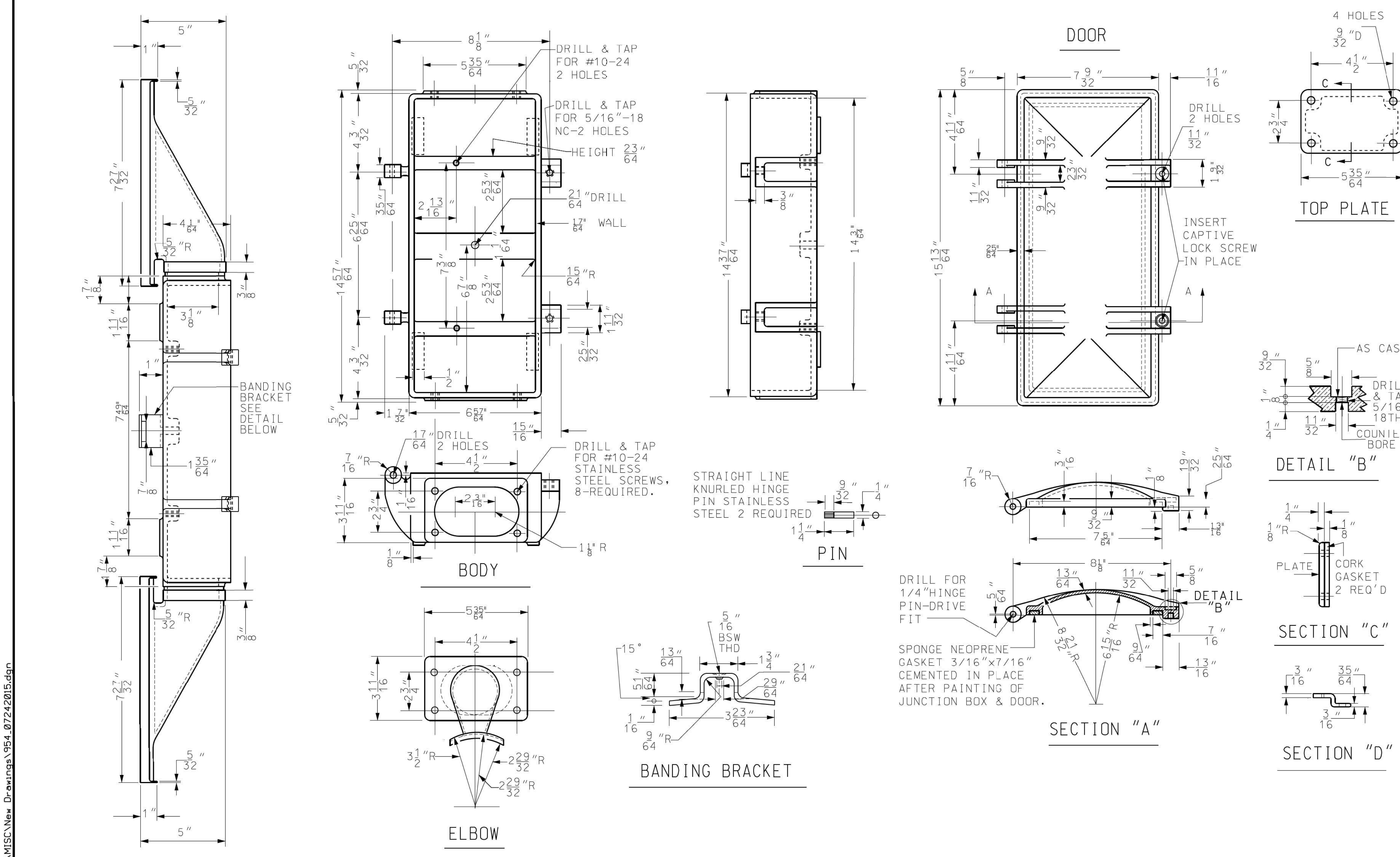
	DRAWN - DTJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	70
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		


DOOR
TOP PLATE
TERMINAL "Z" BRACKET
BODY
PIN
DETAIL "B"
LOCK SCREW
SECTION "C"
SECTION "A"
SECTION "D"
ELBOW
BANDING BRACKET
DRILL & TAP FOR #10-24 2 HOLES
DRILL & TAP FOR 5/16"-18 NC-2 HOLES
INSERT CAPTIVE LOCK SCREW IN PLACE
STRAIGHT LINE KNURLED HINGE PIN STAINLESS STEEL 2 REQUIRED
DRILL FOR 1/4" HINGE PIN-DRIVE FIT
SPONGE NEOPRENE GASKET 3/16"x7/16" CEMENTED IN PLACE AFTER PAINTING OF JUNCTION BOX & DOOR.
5/16"-18NC, ALLEN HEAD, STAINLESS STEEL, 2 REQ'D.
BANDING BRACKET SEE DETAIL BELOW
DRILL & TAP FOR #10-24 STAINLESS STEEL SCREWS, 8-REQUIRED.
DRILL & TAP FOR #8-24 SCREW -2 REQD.
AS CAST
COUNTER BORE
CORK GASKET 2 REQ'D
PLATE
4 HOLES

MATERIALS

BODY, DOOR, ELBOW & PLATE: CAST ALUMINUM ALLOY. TERMINAL MTG. BRACKET: ALUMINUM ALLOY.
SCREWS, HINGE PINS, BANDING BRACKET: STAINLESS STEEL.
CORK GASKET 1/8" THICK, TO BE FURNISHED BETWEEN FLAT PLATE AND BODY
SPONGE NEOPRENE GASKET $14\frac{51}{64}$" x $7\frac{5}{64}$" x $\frac{7}{16}$", TO BE FURNISHED BETWEEN DOOR AND BODY

	DATE	REVISION
A	07/24/15	ELBOW ON TOP OF BOX ADDED.

SUPERSEDES DWG. # 832 DATED 5-1-85

JUNCTION BOX FOR TRAFFIC SIGNAL & FIRE ALARM

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: O. LETAMENDI | CHIEF DRAFTSMAN: R.C. | ENGINEER: O. LETAMENDI
SUPERVISING ENGINEER: | ELEC. DESIGN ENGR.
ENGINEER OF ELECTRICITY:
GEN'L SUPT. OF ELECTRICITY:
DEPUTY COMMISSIONER:
DWG. NO. 954
SIZE: | SCALE: NONE | DATE: 5-3-02

DATE: 7/24/2015
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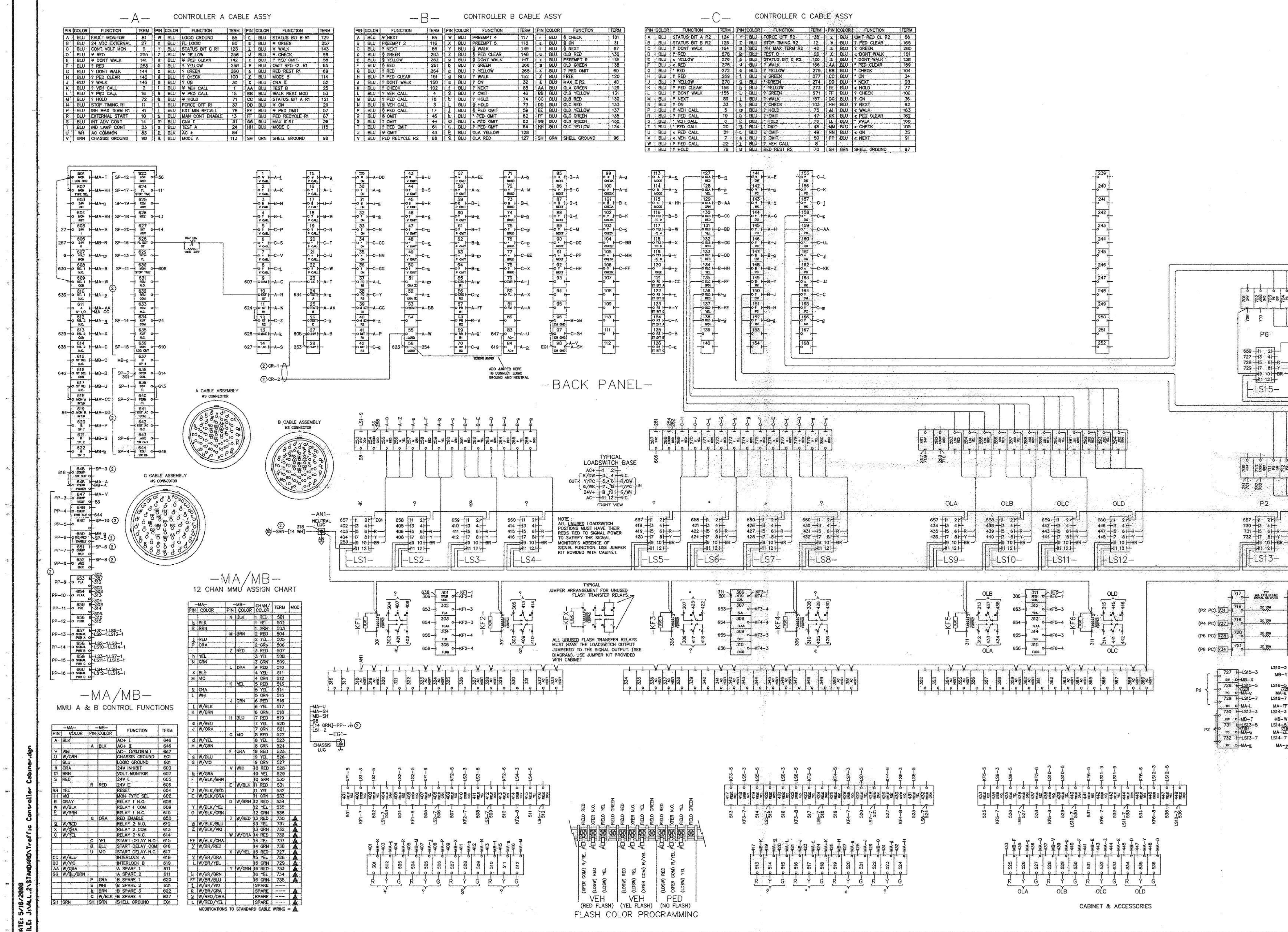

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CHASSIS/EARTH GROUNDS		SOLDER CONNECTION BEHIND PANEL
	LOGIC GND		SCREW CONNECTION
EN	EQUIP NEUT	N	PC BD SOLDER EYELET
AN	AC NEUT (SIG RET)		DIODE
LUG	INDICATES PRESSURE CONNECTION FROM CHASSIS GND CKT TO CABINET/PANEL	R/C	RC NOISE SUPPRESSOR
[14 BLK]	INDICATES CONDUCTOR GUAGE & INSUL. COLOR	MOV	V150LA20 M.O.V.
PA|JA	MTA CONNECTORS — FEMALE (JACK) — MALE (PLUG)	(2)	INDICATES CONNECTION TO TERMINAL SHOWN ON "X" PAGE OF THIS PRINT
-C- -MP-	TYPICAL PANEL AND CABLE DESIGNATIONS		UNTERMINATED, SHRINK TUBING APPLIED
			TWISTED PAIR
		XXXX	MODIFICATION TO STD BACKPANEL WIRING

NOTES:
1) ALL EARTH & NEUT BUS BARS INTERCONNECT WITH 8 GAUGE WIRE.
2) ALL SWITCHES & RELAYS ARE SHOWN FOR "NORMAL", STOP AND GO OPERATION.
3) ALL CROSS REFERENCES TO THE MAIN PANEL FROM A SIDE PANEL ASSEMBLY SHALL BE WIRED BY THE SIDE PANEL LINE.

ALL OTHER CROSS REFERENCES ON THE MAIN PANEL SHALL BE WIRED BY MAIN PANEL CW.

DATE: 5/16/2008
FILE: J:\ALL_2\STANDARD\Traffic Controller Cabinet.dgn

TRAFFIC CONTROLLER CABINET
BACK PANEL & POWER SUPPLY
1 OF 2

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: A. BAUTISTA	CHIEF DRAFTSMAN:	ENGINEER: R.POOL
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO. 964
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22" | 36"	SCALE: AS SHOWN	DATE: 03/04/2008

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	DRAWN - DTJ	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

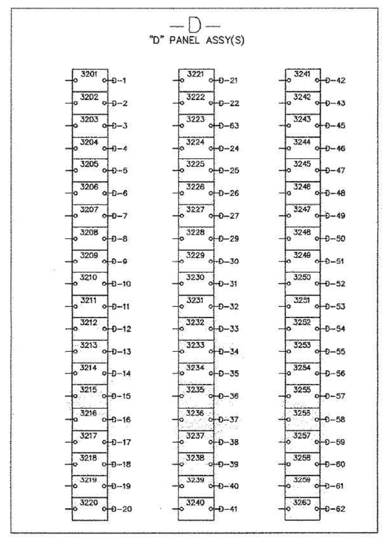
CDOT ELECTRICAL DETAILS

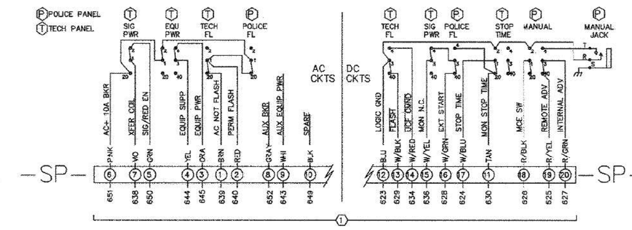
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

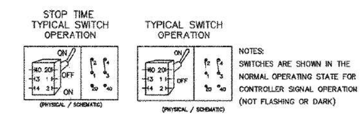
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	72
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

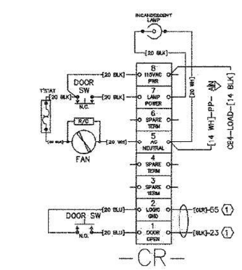
"D" CABLE ASSY(S)

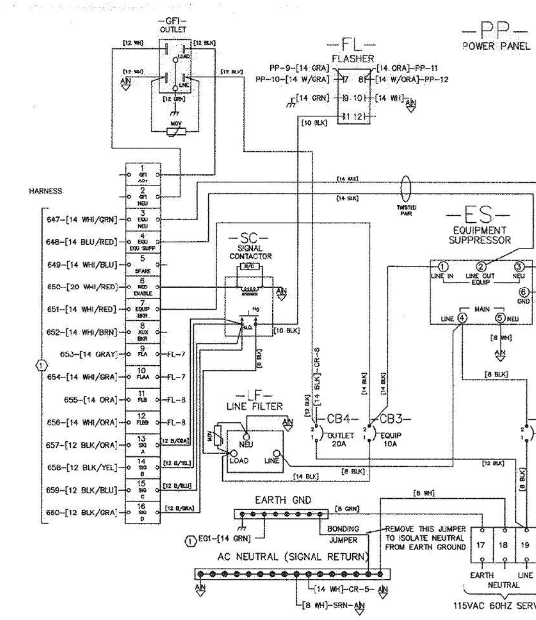
PIN	WIRE	WIRE	FUNCTION	TERM
1	D-1	BROWN	FLASH MONITOR 1	3201
2	D-2	RED	CYCLE 5	3202
3	D-3	ORANGE	PE #1 CLEAR	3203
4	D-4	YELLOW	PE #3 CLEAR	3204
5	D-5	BLUE	FLASH MONITOR 2	3205
6	D-6	VIOLET	SPARE INPUT 7	3206
7	D-7	GRAY	SYSTEM INPUT	3207
8	D-8	WHI/BLK	AZ RES	3208
9	D-9	WHI/BRN	PE #2 CLEAR	3209
10	D-10	WHI/RED	UD 6 INPUT	3210
11	D-11	WHI/ORA	CALL TO WEEK 10	3211
12	D-12	WHI/YEL	SIGNAL PLAN 6	3212
13	D-13	WHI/GRN	SIGNAL PLAN 7	3213
14	D-14	WHI/BLUE	SIGNAL PLAN 8	3214
15	D-15	WHI/VIO	ACTUATION 5	3215
16	D-16	WHI/GRAY	ACTUATION 6	3216
17	D-17	WHI/BLK/BRN	ACTUATION 7	3217
18	D-18	WHI/BLK/RED	SPARE INPUT 4	3218
19	D-19	WHI/BLK/ORA	UD 7 INPUT	3219
20	D-20	WHI/BLK/YEL	ACTUATION 8	3220
21	D-21	WHI/BLK/GRN	ACTUATION 9	3221
22	D-22	WHI/BLK/BLUE	ACTUATION 10	3222
23	D-23	WHI/BLK/VIO	SPARE INPUT 5	----
24	D-24	WHI/BLK/GRAY	UD 8 INPUT	3224
25	D-25	WHI/BRN/RED	SYSTEM (CKT 13)	3225
26	D-26	WHI/BRN/ORA	FLASH ATTAINED	3226
27	D-27	WHI/BRN/YEL	PE ACTIVE	3227
28			POLARIZING KEY	----
29	D-29	WHI/BRN/GRN	SYSTEM OUT	3228
30	D-30	WHI/BRN/BLUE	PE 3 INPUT	3229
31	D-31	WHI/BRN/VIO	PE 4 INPUT	3230
32	D-32	WHI/BRN/GRAY	PE 5 INPUT	3231
33	D-33	WHI/RED/ORA	SIGNAL PLAN 5 INPUT	3232
34	D-34	WHI/RED/YEL	CALL TO FREE OP	3233
35	D-35	WHI/RED/GRN	OUTPUT 41	3234
36	D-36	WHI/RED/BLUE	OUTPUT 42	3235
37	D-37	WHI/RED/BIO	INTERCONNECT INHIBIT	3236
38	D-38	WHI/RED/GRAY	SPARE INPUT 6	3237
39	D-39	WHI/ORA/YRL	SYNC INHIBIT	3238
40	D-40	WHI/ORA/GRN	DIMMING	3239
41	D-41	WHI/ORA/BLUE	ADDED TIME INHIBIT	3240
42	D-42	WHI/ORA/VIO	TIME CLOCK SYNC	3241
43	D-43	WHI/ORA/GRAY	OUTPUT 43	3242
44			POLARIZING KEY	----
45	D-45	WHI/YEL/GRN	OUTPUT 44	3243
46	D-46	WHI/YEL/BLUE	OUTPUT 45	3244
47	D-47	WHI/YEL/VIO	OUTPUT 46	3245
48	D-48	WHI/YEL/GRAY	OUTPUT 47	3246
49	D-49	WHI/GRN/BLUE	SIGNAL PLAN 4	3247
50	D-50	WHI/GRN/VIO	AUX 1 (CKT 9)	3248
51	D-51	WHI/GRN/GRAY	AUX 2 (CKT 10)	3249
52	D-52	WHI/BLUE/VIO	AUX 3 (CKT 11)	3250
53	D-53	WHI/BLUE/GRAY	AUX 4 (CKT 12)	3251
54	D-54	WHI/VIO/GRAY	OUTPUT 48 (FAST FLASH ENABLE)	3252
55	D-55	WHI/BLK/BRN/RED	FLASH OUT (CKT 8)	3253
56	D-56	WHI/BLK/BRN/ORA	OFFSET 1 (CKT 3)	3254
57	D-57	WHI/BLK/BRN/YEL	OFFSET 2 (CKT 4)	3255
58	D-58	WHI/BLK/BRN/GRN	OFFSET 3 (CKT 5)	3256
59	D-59	WHI/BLK/BRN/BLUE	CYCLE 2 (CKT 1)	3257
60	D-60	WHI/BLK/BRN/VIO	CYCLE 3 (CKT 2)	3258
61	D-61	BLACK	SPLIT 2 (CKT 6)	3259
62	D-62	WHITE	SPLIT 3 (CKT 7)	3260
63	D-63	GREEN	FAST FL IMAGE (OUT)	3223

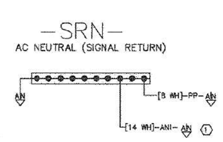












DATE: 5/16/2008
FILE: J:\ALL_2\STANDARD\Traffic Controller Cabinet.dgn

TRAFFIC CONTROLLER CABINET BACK PANEL & POWER SUPPLY

2 OF 2

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: A. BAUTISTA	CHIEF DRAFTSMAN:	ENGINEER: R.POOL
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO. 965
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22" | 36"	SCALE: AS SHOWN	DATE: 03/04/2008

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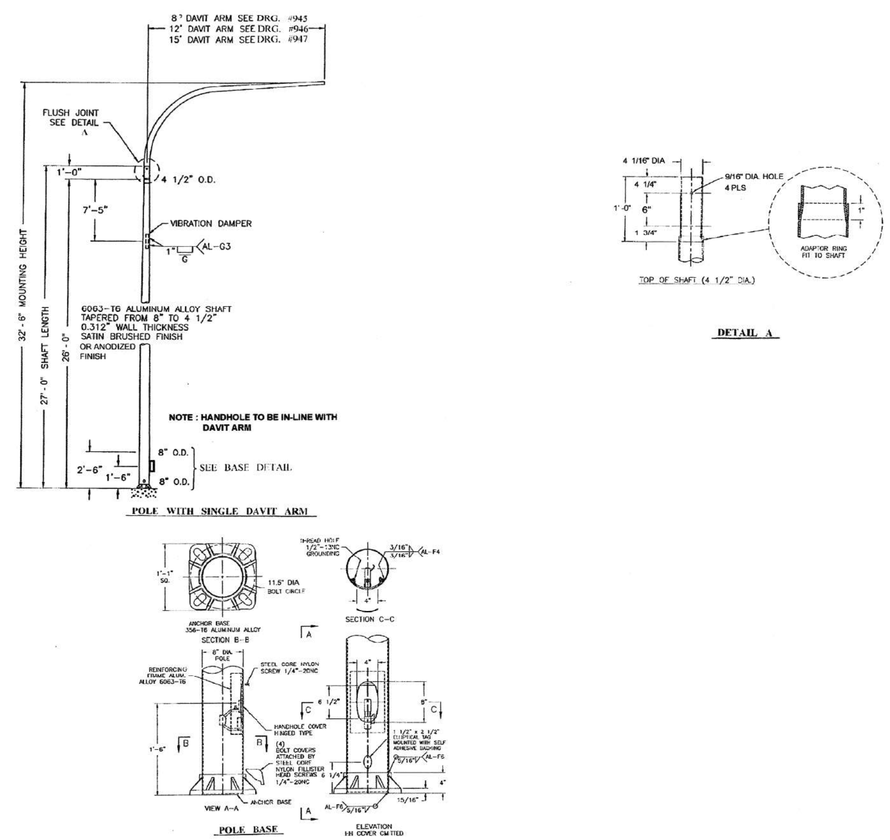
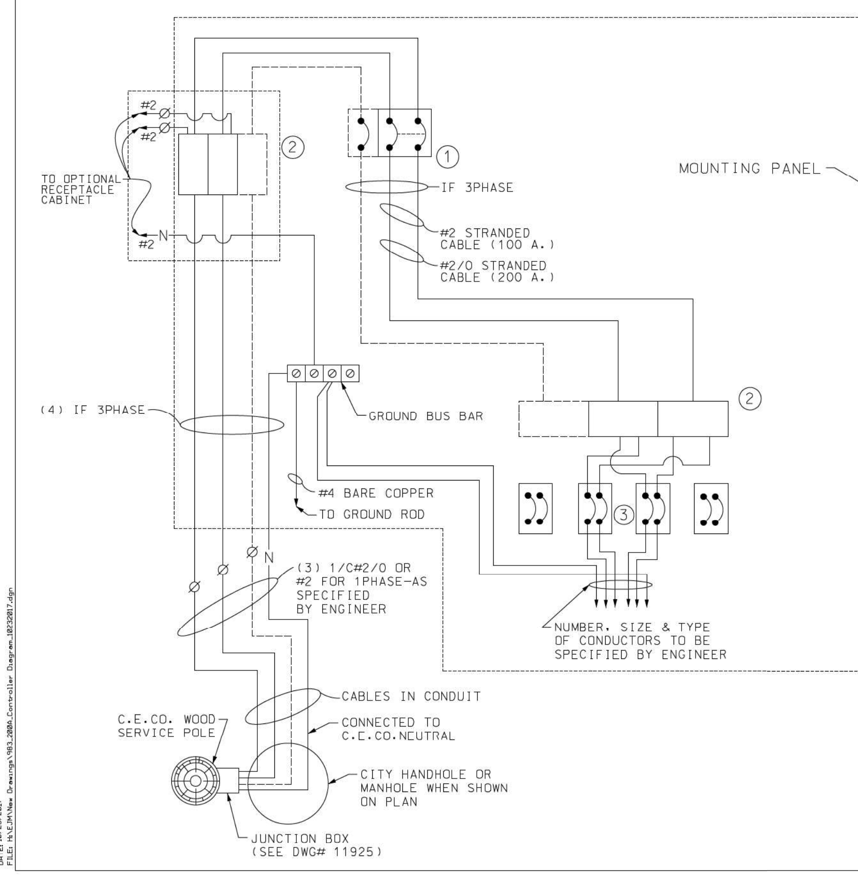


A	DATE	REVISION

ALUMINUM DAVIT POLE
8" x 4.5" x 27'
FOR BRIDGE PARAPET WALL

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

DRAFTSMAN :	G.M.PADIYAR	DWG. NO. 975
ENGINEER :	O.LETAMENDI	
SUPERVISING ENGINEER :	R.POOL	
ENGINEER OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE:	SCALE: NONE	DATE: 10/02/13



(1) - MAIN CIRCUIT BREAKER, 2 POLE OR 3 POLE 100A "FDB" FRAME OR 2 POLE OR 3 POLE, 200A, "JDB" OR "JDK" FRAME AS TABLE BELOW

100A 1PHASE : C FDB 14kA i.c. AT 240VAC 2P
100A 3PHASE : C FDB 14kA i.c. AT 240VAC 3P
200A 1PHASE : C JDK 25kA i.c. AT 240VAC 2P
200A 3PHASE : C JDB 25kA i.c. AT 240VAC 3P

(2) - POWER DISTRIBUTION BLOCK, AS PER NEC 376.56(B) 1-4, AND 310.15(B)(16) 75°C AMPACITIES OPEN STYLE, COPPER CONTACTS, 600VAC RATED

(3) - BRANCH CIRCUIT BREAKER-2 POLE, 50A., OR 70A. "EHD" FRAME,
14kA i.r. AT 240VAC 2P
14kA i.r. AT 240VAC 3P

NOTES :

GROUND BUS TO BE MOUNTED ON LEFT SIDE WALL OF CABINET (SEE DETAIL DRG.NO.984)

SEE DRG.NO.984 FOR DETAIL OF MOUNTING PANEL.

SEE DRG.# 876 FOR CABINET ASSEMBLY (100 AMP.)
SEE DRG.# 880 FOR CABINET ASSEMBLY (200 AMP.)

DATE: 10/23/2017
FILE: H:\EJM\New Drawings\983_200A_Controller Diagram_10232017.dgn

A	DATE	REVISION

WIRING DIAGRAM FOR 100/200 AMP. SINGLE OR THREE PHASE, STREET LIGHTING CONTROLLER CONSTANT POWER

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING-ELECTRICAL SECTION

DRAFTSMAN/ENGINEER :	G.M.PADIYAR	DWG. NO. 983
SUPERVISING ENGINEER:	O.LETAMENDI	
PROFESSIONAL ENGINEER :	R.POOL	
ENGINEER OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 16" | 22"	SCALE: NONE	DATE: 10/23/17

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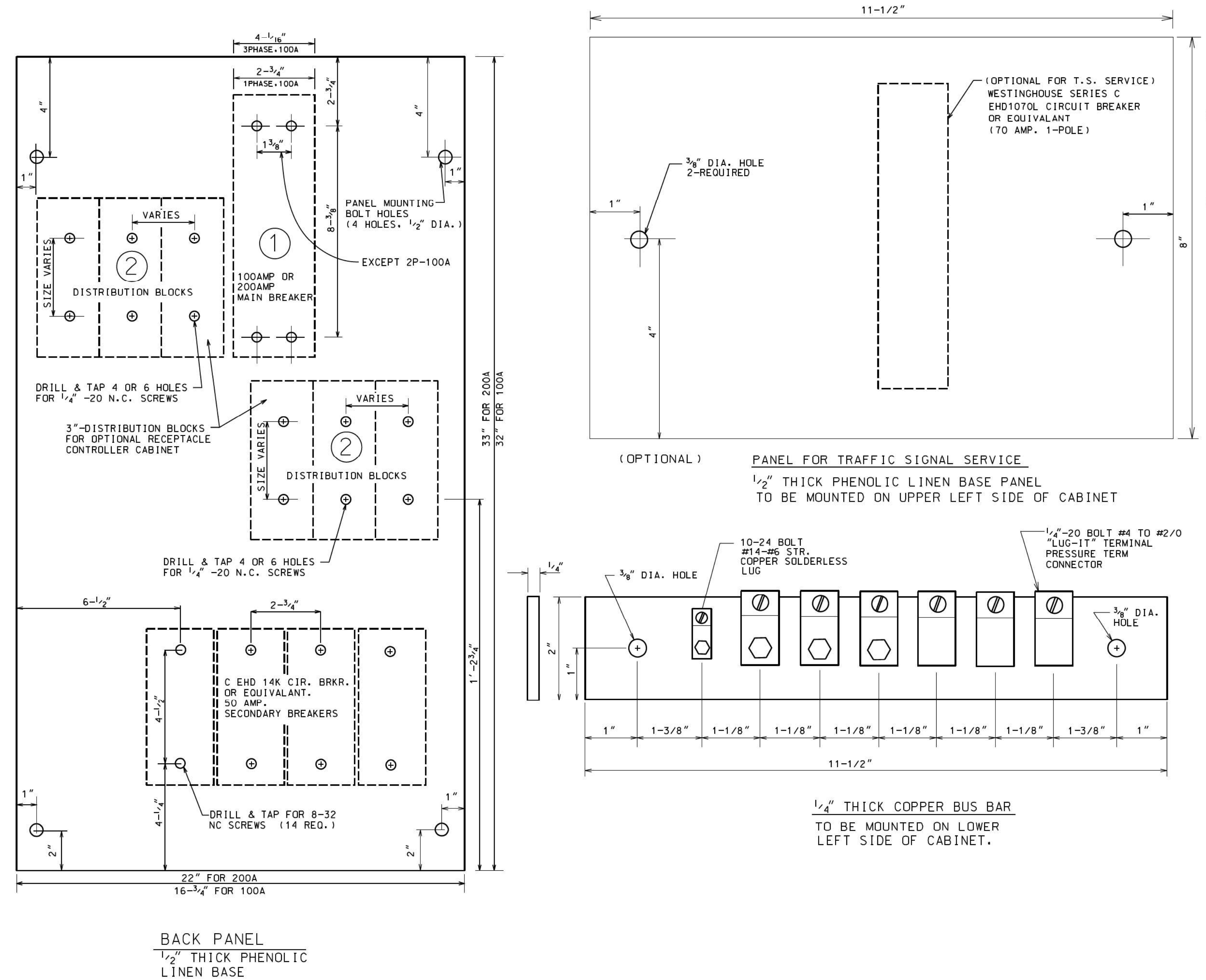

SEE DRG.#880 FOR CABINET DETAIL
SEE DRG# 983 FOR WIRING DIAGRAM

① – MAIN CIRCUIT BREAKER
100A 1PHASE : C FDB 14kA i.r. at 240VAC 2P
100A 3PHASE : C FDB 14kA i.r. at 240VAC 3P
200A 1PHASE : C JDK 25kA i.r. at 240VAC 2P
200A 3PHASE : C JDB 25kA i.r. at 240VAC 3P

② – POWER DISTRIBUTION BLOCKS
RATED 600V. BASED ON NEC
376.56(B) 1-4, AND 310.15(B)(16)
75°C AMPACITIES

DATE: 10/23/2017
FILE: H:\EJM\New Drawings\984_Panel_10232017.dgn

A	DATE	REVISION

PANELS FOR 100A/200A
2 AND 3 POLE EQUIPMENT
IN STREET LIGHT CONTROL CABINET-
CONSTANT POWER

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING-ELECTRICAL SECTION

DRAFTSMAN/ENGINEER :	G.M.PADIYAR	DWG. NO.
SUPERVISING ENGINEER:	D. LETAMENDI	
PROFESSIONAL ENGINEER :	R. POOL	984
ENGINEER OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 16" 22"	SCALE: NONE	DATE: 10/23/17

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8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
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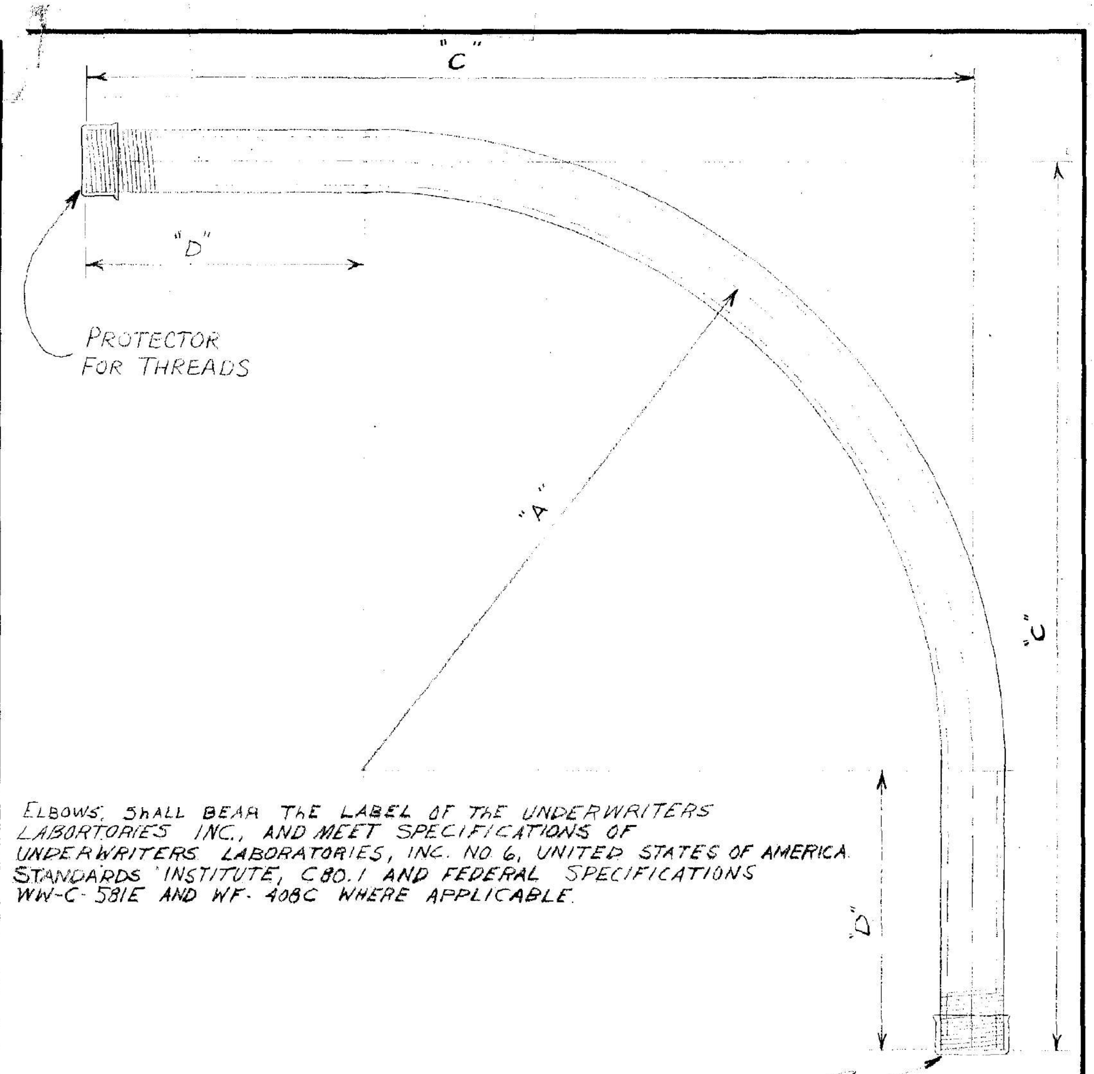
USER NAME = untitled	DESIGNED - DTJ	REVISED -	
	DRAWN - DTJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	75
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



ELBOWS SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORTORIES INC., AND MEET SPECIFICATIONS OF UNDERWRITERS LABORATORIES, INC. NO 6, UNITED STATES OF AMERICA STANDARDS INSTITUTE, C80.1 AND FEDERAL SPECIFICATIONS WW-C-581E AND WF-408C WHERE APPLICABLE.

NOTE:
TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

TABLE OF DIMENSIONS

CONDUIT SIZE	DIMENSIONS "A"	"C"	"D"	COMMODITY CODE
1¼"	24"	35"	11"	09-4001-0510
1½"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2½"	24"	35"	11"	09-4001-4128
3"	24"	35"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-0000

B	SPECIFICATIONS REVISED
A	REVISED DIMENSIONS ON 3" & 4" CONDUIT L.P.

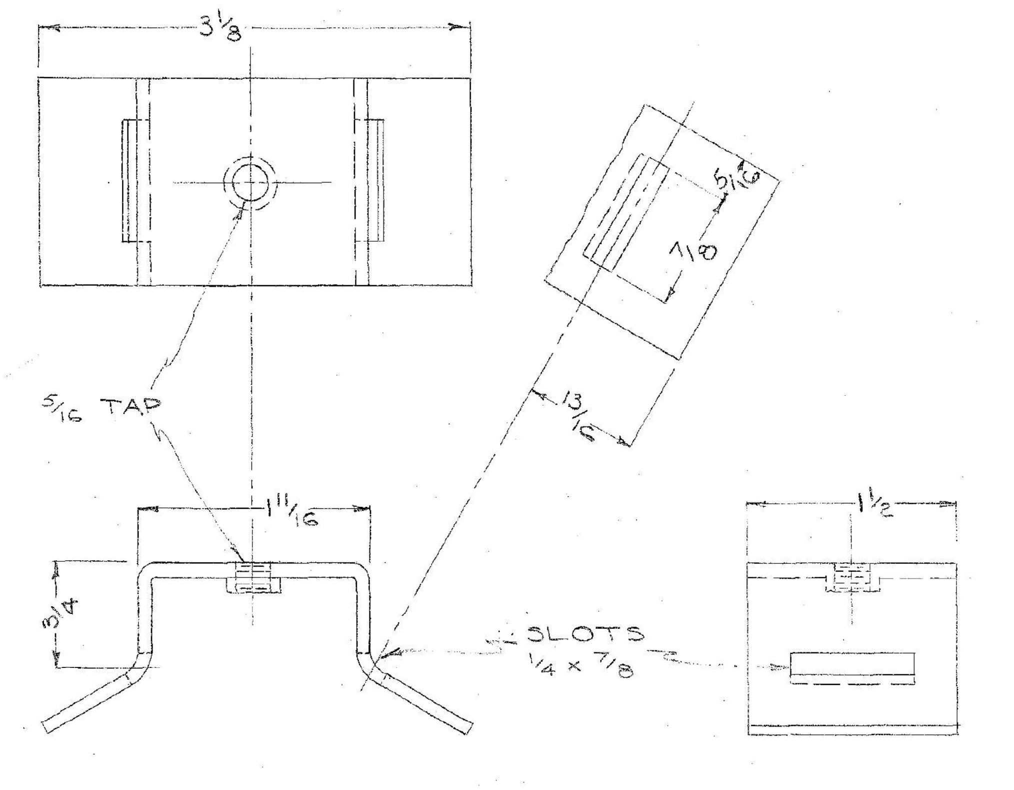
ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

REVISED	
A	7-22-71
B	4-3-79
C	
D	
E	
F	
G	

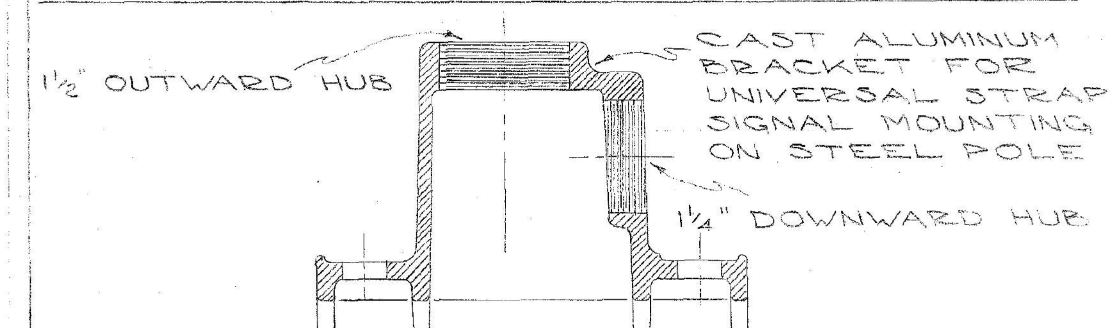
DRAWN LON BURDY · CHECKED M.S. · ENGINEER M. SHINE
ENG. IN CHARGE · SUPT. OF CONST. · DEPUTY COMM.
DRG. NO. 11825
SIZE 8½" x 14" · SCALE: 3/16" · DATE 6-2-71

BANDING FITTING FOR POLE MOUNTING JUNCTION BOX



MATERIAL: STAINLESS STEEL - 4 13/16 x 1½ x 3/32

BANDING FITTING FOR POLE MOUNTING SIGNALS



MATERIAL: CAST ALUMINUM

CROUSE HINDS
TL-3301 - WITHOUT DOWNWARD HUB
TL-3302 WITH 1¼" DOWNWARD HUB

BANDING FITTINGS FOR POLE MOUNTING TRAFFIC SIGNAL
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
DIVISION OF ELECTRICAL ENGINEERING
S. NETTI
SUPT. OF CONST. · DEPUTY COMM.
11984
8½ x 14" 11-14-77

• 7 CONDUCTOR – 7 POINT STRIP •

Terminal	Conductor	Signal
7	COMMON WHITE	
6	WHITE BLK. TR.	E&W RED
5	BLACK - SOLID	" AMBER
4	BLUE - "	" GREEN
3	RED - "	N&S RED
2	ORANGE - "	" AMBER
1	GREEN "	" GREEN

• 14 CONDUCTOR – 10 POINT STRIP •

Terminal	Conductor
10	COMMON WHITE
9	RED WHITE TRACER
8	ORANGE " "
7	GREEN " "
6	RED BLACK TRACER
5	ORANGE " "
4	GREEN " "
3	RED - SOLID
2	ORANGE - SOLID
1	GREEN - SOLID

GREEN BLUE TRACER, ORANGE " ", RED " ", BLACK - SOLID } SPLICED & TAPED

• 22 CONDUCTOR – CODE •
• 19/C CODE – OMIT #19 • #21 & #22 •

Terminal	Color	Conductor	Direction
1	WH	RED & BLACK TR.	COMMON
2	WH	RED/GREEN TR.	COMMON (SPARE)
3	R	BLACK TR.	NO. BOUND
4	A	" "	" "
5	G	" "	" "
6	R	SOLIDS	SO. BOUND
7	A	"	" "
8	G	"	" "
9	BK	"	NEON OR ARROW
10	R	BLUE TR.	EAST BOUND
11	A	" "	" "
12	G	" "	" "
13	R	WHITE TR.	WEST BOUND
14	A	" "	" "
15	G	" "	" "
16	BL	SOLID	— SPECIAL
17	BL	AMBER TR	— "
18	BL	WHITE TR	— "
19	WH	RED TR	— "
20	WH	SOLID	— "
21	WH	BLACK TR	— "
22	BK	WHITE TR	— "

• 10 CONDUCTOR – 7 POINT STRIP •

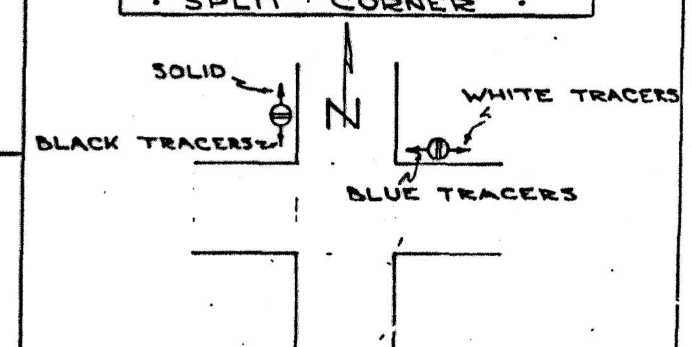
Terminal	Conductor	Signal
7	COMMON - WHITE	
6	RED BLK. TR.	E&W RED
5	ORANGE BLK. TR.	" AMBER
4	GREEN BLK. TR.	" GREEN
3	RED - SOLID	N&S RED
2	ORANGE - "	" AMBER
1	GREEN - "	" GREEN

SOLID BLUE, SOLID BLACK, BLUE BLK. TR. } SPLICED & TAPED

• 14 CONDUCTOR – 14 POINT STRIP •

Terminal	Conductor
14	COMMON WHITE
13	BLACK
12	RED - BLUE TRACER
11	ORANGE - " "
10	GREEN " "
9	RED - WHITE TRACER
8	ORANGE - " "
7	GREEN - " "
6	RED - BLACK TRACER
5	ORANGE - " "
4	GREEN - " "
3	SOLID RED
2	SOLID ORANGE
1	SOLID GREEN

• SPLIT CORNER •

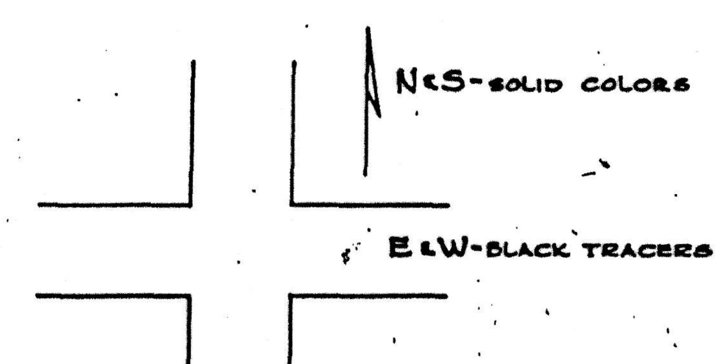


• 10 CONDUCTOR – 10 POINT STRIP •

Terminal	Conductor	Signal
10	COMMON - WHITE	
9	BLUE BLK. TRACER #	
8	BLACK - SOLID #	
7	BLUE - SOLID #	
6	RED BLK. TRACER	E&W RED
5	ORANGE BLK. "	" AMBER
4	GREEN BLK. "	" GREEN
3	RED - SOLID	N&S RED
2	ORANGE - SOLID	" AMBER
1	GREEN - SOLID	" GREEN

\# - SOLID BLUE - GREEN LIGHT
\# - SOLID BLACK - AMBER "
\# - BLUE BLACK TR. RED "
} IF USED

• STRAIGHT CORNER •



NOTE: CONDUCTORS FOR WALK SIGNALS & VARIOUS MESSAGE SIGNS AT DISCRETION OF INSTALLER

(30)

TRAFFIC CONTROL SIGNALS
STRIP WIRING LAYOUT

CITY OF CHICAGO
DEPT OF STREETS AND SANITATION
DIVISION OF ELECTRICAL OPERATION

REVISED	
A	5-4-61
B	11-10-64
C	
D	
E	
F	
G	

DRAWN H.R.G. CHECKED [signature] ENGINEER [signature]
ENGIN. IN CHARGE [signature]
SUPERINTENDENT
COMMISSIONER
SIZE 16"x21"
DWG. NO. 12268-A
DATE 11-8-56

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CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = untitled	DESIGNED - DTJ	REVISED -
	DRAWN - DTJ	REVISED -
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PLOT DATE = 11/28/2024	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	77

CONTRACT NO. 62P43
ILLINOIS FED. AID PROJECT

GENERAL NOTES:

1. NOTIFY THE IDOT DISTRICT ONE ELECTRICAL MAINTENANCE OFFICE, LONG TRAN, LONG.TRAN@ILLINOIS.GOV, 847-705-4232 TWO WEEKS PRIOR TO THE ANTICIPATED LIGHTING MAINTENANCE TRANSFER.

2. CONTRACTOR IS REPSONSIBLE FOR OPERATION AND MAINTENANCE OF TEMPORARY LIGHTING SYSTEM AND SHALL ENSURE CONTINUOUS OPERATION DURING NIGHT-TIME HOURS.

3. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION).

4. THE CONTRACTOR SHALL GIVE IN WRITING TO THE ELECTRICAL ENGINEER FOR REVIEW CONSTRUCTION STAGING FOR PROPOSED UNDERPASS LIGHTING WORK, AND OBTAIN WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER.

5. ANY ROADWAY LIGHTING MATERIALS AND/OR LIGHTING SYSTEMS SHOWN ON THE PLAN SHEETS AS "EXISTING" ARE FOR THE CONTRACTOR'S INFORMATION ONLY. THE CONTRACTOR MUST FIELD VERIFY EXISTING ROADWAY LIGHTING MATERIALS/SYSTEMS AS SPECIFIED IN THE "GENERAL ELECTRICAL REQUIREMENTS."

6 THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, SHALL DISPOSE OF THE EXISTING ELECTRICAL MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE RESPECTIVE PAY ITEM.

7. MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES, 773-278-7672.

LEGEND:

O R	EXISTING UNDERPASS LUMINAIRE, 55W LOW PRESSURE SODIUM VAPOR, SUSPENDED MOUNT, TO BE REMOVED, NO SALVAGE.
J R	EXISTING JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, TO BE REMOVED.
O	LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION C
J	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE. SIZE AS NOTED JB1: 18" X 18" X 10" JB2: 12" X 10" X 6" JB3: 6" X 6" X 4"
KG13	LUMINAIRE ID
E	EXISTING IDOT LIGHT POLE, HPS, 400W
T	TEMPORARY WOOD POLE, 90 FT., CLASS 4, 15 FT. MAST ARM, WITH TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I, MOUNTED AT 70' ABOVE PAVEMENT
RR	REMOVAL OF EXISTING LIGHT POLE (PAID FOR AS "REMOVE AND RE-ERECT EXISTING LIGHTING UNIT")
ER	REINSTALLATION OF EXISTING REMOVED LIGHT POLE (PAID FOR AS "REMOVE AND RE-ERECT EXISTING LIGHTING UNIT")
	TEMPORARY WOOD POLE, 60 FT., CLASS 4
	EXISTING LIGHTING CONTROLLER TO BE REMOVED AND SALVAGED
	TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED, 480VOLT, 200AMP
	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA, WITH FIBER OPTIC PROVISION.
	EXISTING ELECTRIC SERVICE INSTALLATION
	PROPOSED ELECTRIC SERVICE INSTALLATION
— — AC — —	TEMPORARY AERIAL CABLE. NUMBER OF WIRES AS SPECIFIED ON PLANS.
– – – – – –	CONDUIT EXPOSED. TYPE AND SIZE AS SPECIFIED ON PLANS.
—·—·—	ELECTRIC CABLE IN CONDUIT. NUMBER AND WIRE SIZE AS SPECIFIED ON PLANS.

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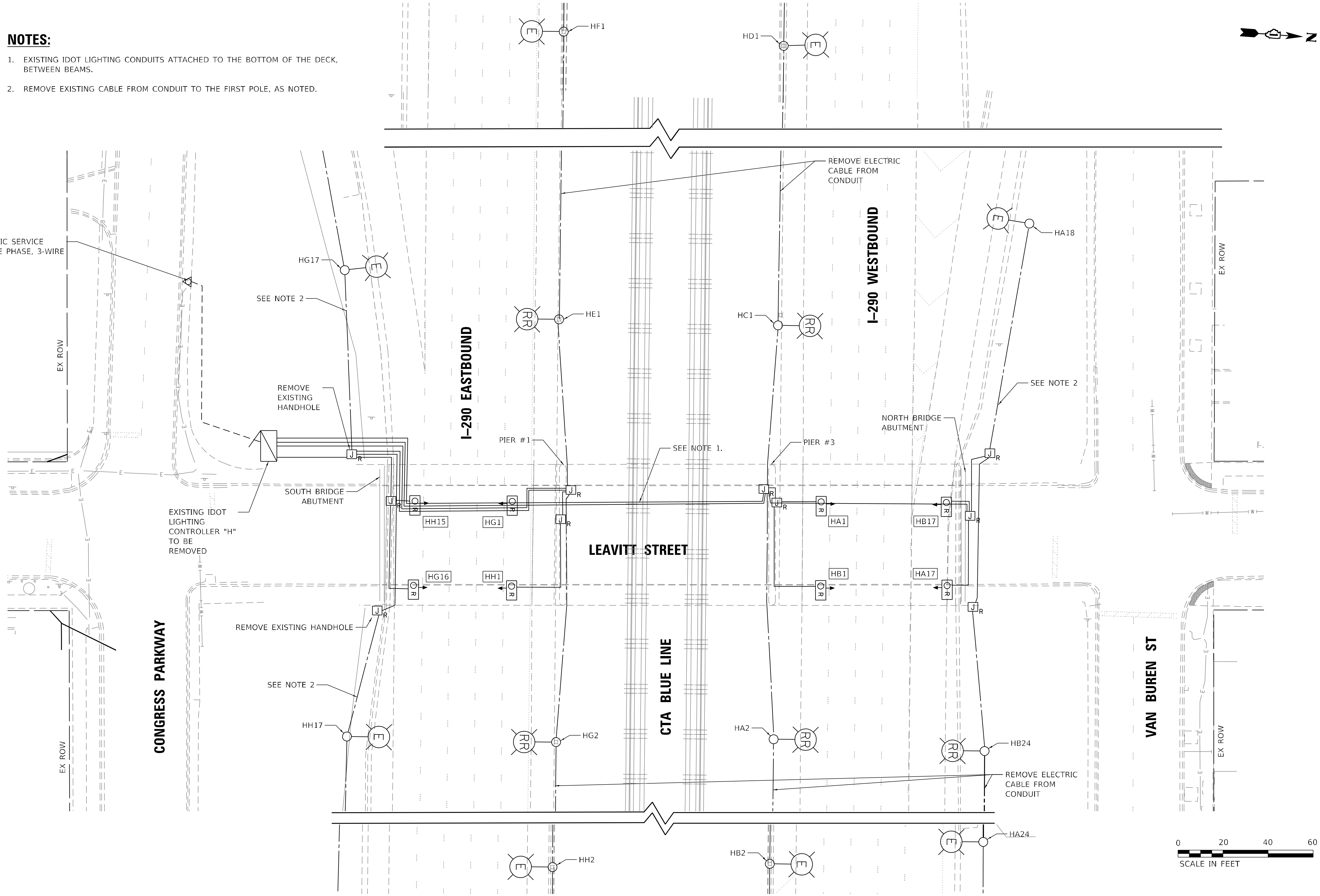
CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = Electrical PLOT SCALE = 40.0000 ' / in. PLOT DATE = 1/16/2025	DESIGNED - DTJ DRAWN - DTJ CHECKED - JMV DATE - 12/3/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IDOT LIGHTING GENERAL NOTES AND LEGEND SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	78
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. EXISTING IDOT LIGHTING CONDUITS ATTACHED TO THE BOTTOM OF THE DECK, BETWEEN BEAMS.
2. REMOVE EXISTING CABLE FROM CONDUIT TO THE FIRST POLE, AS NOTED.



CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = Electrical	DESIGNED - DTJ	REVISED -
		DRAWN - DTJ	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -
	PLOT DATE = 1/16/2025	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING REMOVAL PLAN
I-290 AT LEAVITT STREET

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	79
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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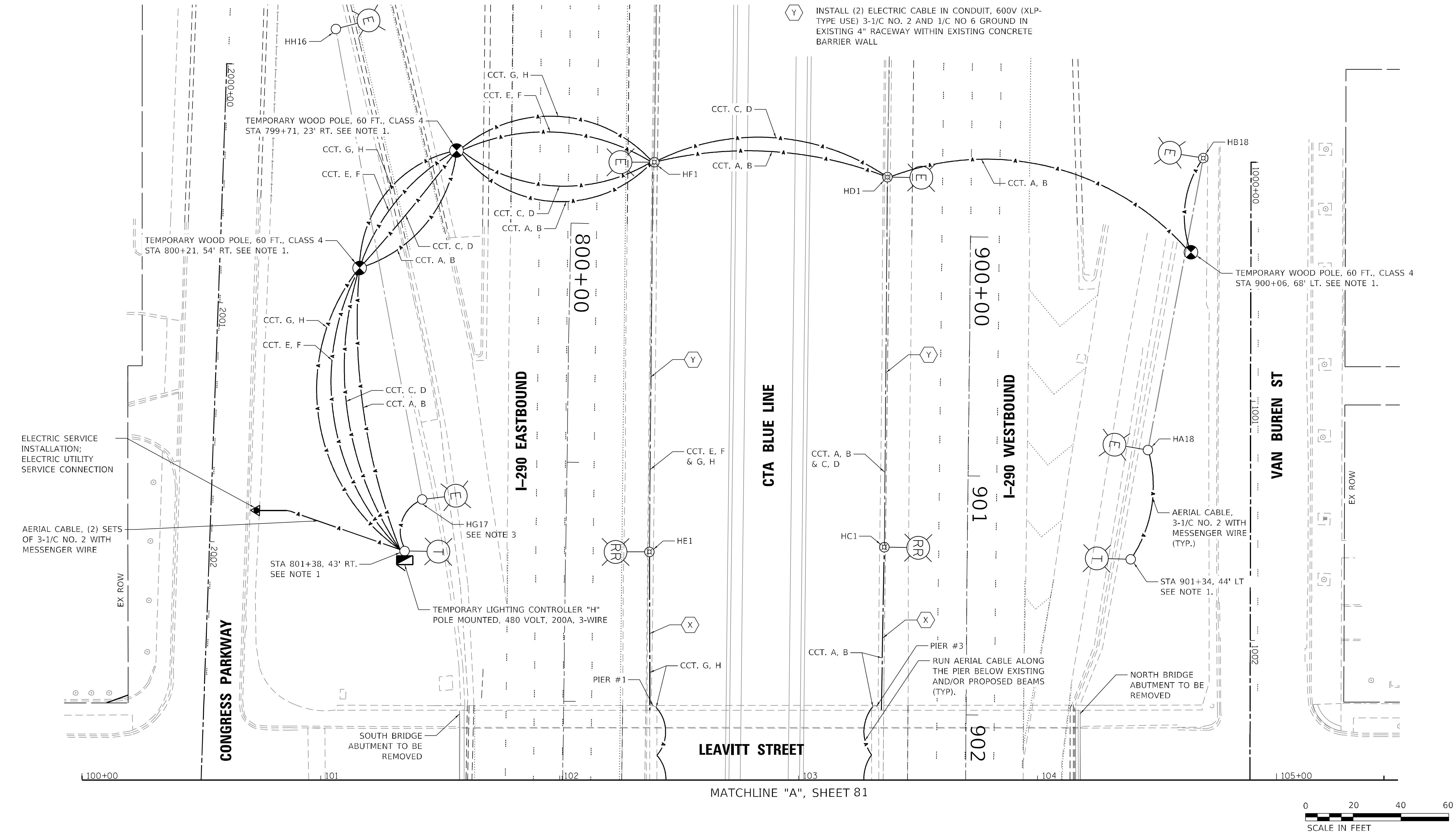
NOTES:

1. POLE SETBACK IS MEASURED FROM THE MAINLINE EDGE OF PAVEMENT.
2. CONDUIT ONLY TO BE ATTACHED TO TOP OF WALL. NO SIDE DRILLING ALLOWED.
3. THIS LUMINAIRE TO BE DEENERGIZED WHILE TEMPORARY LIGHTING IS OPERATIONAL.

CONDUIT AND CABLE LEGEND

(X) INSTALL CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL WITH (2) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GROUND ON TOP OF BARRIER WALL FROM EXISTING POLE FOUNDATION TO BRIDGE PIER. SEE NOTE 2.

(Y) INSTALL (2) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GROUND IN EXISTING 4" RACEWAY WITHIN EXISTING CONCRETE BARRIER WALL



CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = Electrical	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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	PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
	PLOT DATE = 1/16/2025	DATE - 12/3/2024	REVISED -	

IDOT TEMPORARY LIGHTING PLAN
I-290 AT LEAVITT STREET

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	80
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

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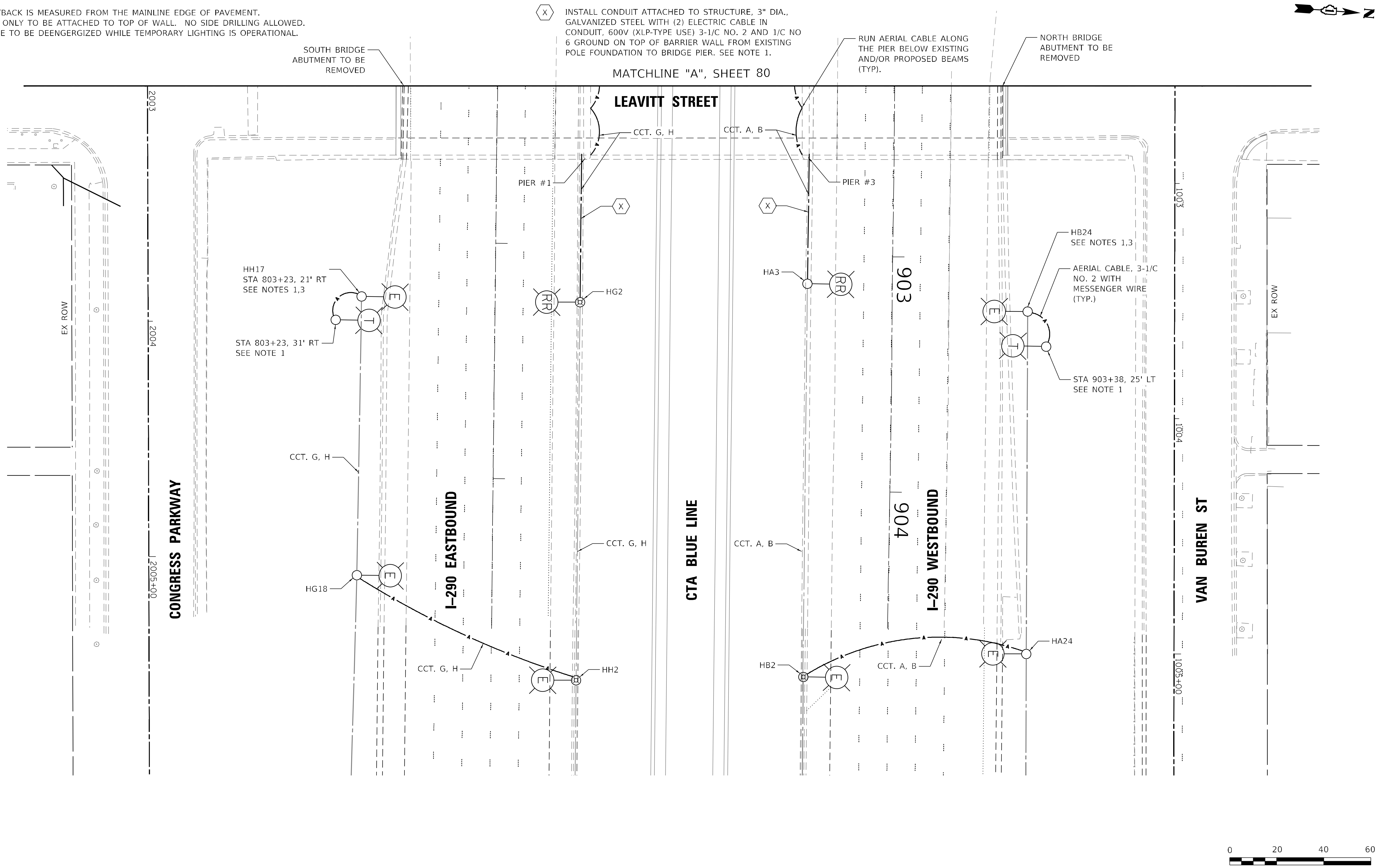
NOTES:

1. POLE SETBACK IS MEASURED FROM THE MAINLINE EDGE OF PAVEMENT.
2. CONDUIT ONLY TO BE ATTACHED TO TOP OF WALL. NO SIDE DRILLING ALLOWED.
3. LUMINAIRE TO BE DEENGERGIZED WHILE TEMPORARY LIGHTING IS OPERATIONAL.

CONDUIT AND CABLE LEGEND

(X) INSTALL CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL WITH (2) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GROUND ON TOP OF BARRIER WALL FROM EXISTING POLE FOUNDATION TO BRIDGE PIER. SEE NOTE 1.



CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = Electrical	DESIGNED - DTJ	REVISED -
		DRAWN - DTJ	REVISED -
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	PLOT DATE = 1/16/2025	DATE - 12/3/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING PLAN
I-290 AT LEAVITT STREET

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	81
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

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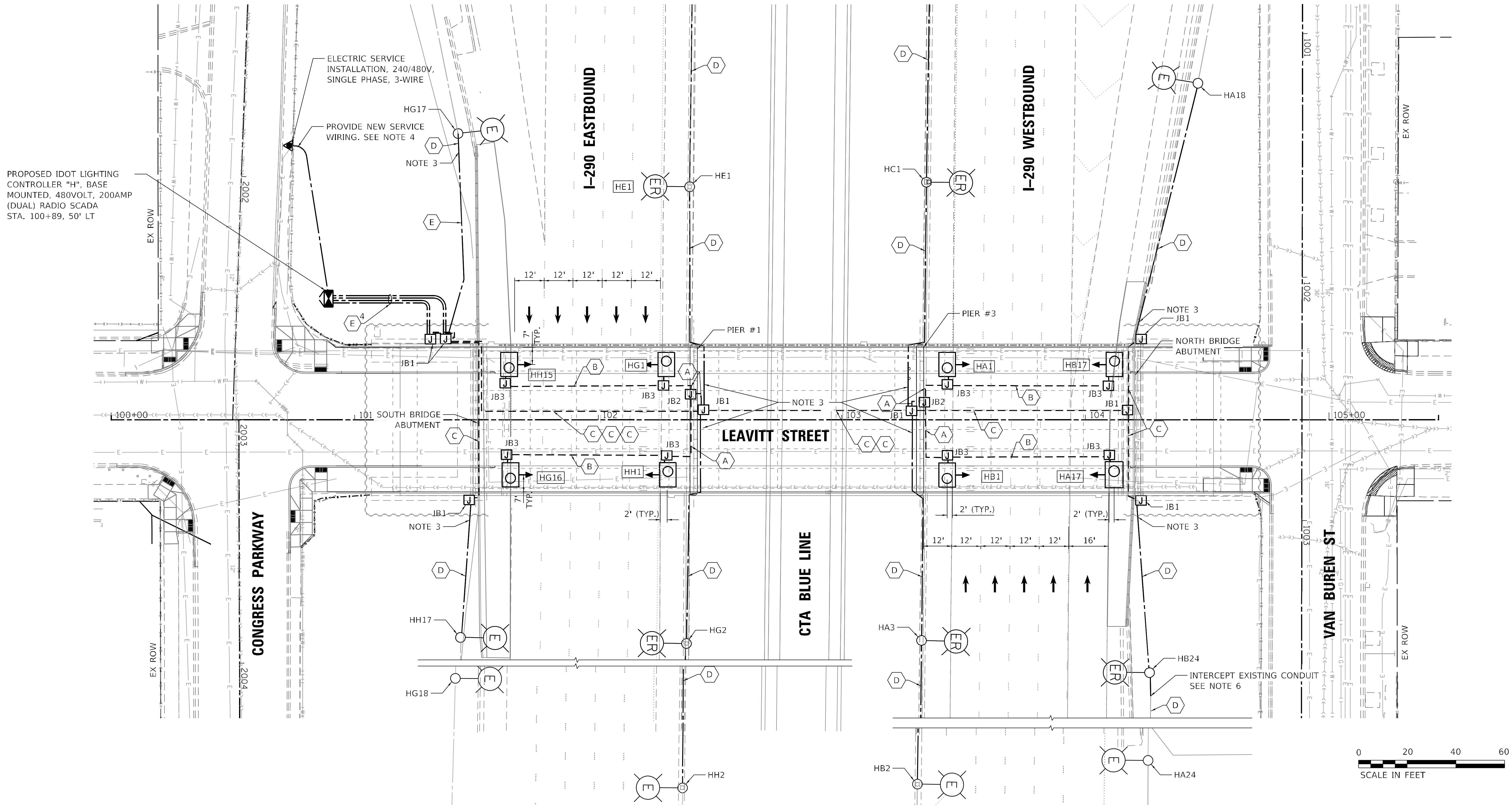
NOTES:

1. PROPOSED UNDERPASS LUMINAIRES SHALL BE CONNECTED TO EXISTING LIGHTING CONTROLLER 'H'.
2. UNDERPASS LUMINAIRE TO BE LOCATED NO CLOSER THAN 2' FROM BRIDGE CROSS-BRACING.
3. INTERCEPT EXISTING CONDUIT.
4. UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C 350MCM
5. JUNCTION BOX SIZES ARE SIZED AS NOTED BELOW:
   - JB1 18" X 18" X 8"
   - JB2 12" X 10" X 6"
   - JB3 6" X 6" X 4"
6. INTERCEPT EXISTING CONDUIT AND ROUTE INTO NEW POLE FOUNDATION. REMOVE EXISTING CONDUCTORS TO ADJACENT POLE TO THE EAST, AND INSTALL NEW CONDUCTORS AS INDICATED.

CONDUIT AND CABLE LEGEND

- (A) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL, WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 AND 1/C NO 10 GND
- (B) CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL, WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-1/C NO. 10 AND 1/C NO 10 GND
- (C) CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL, WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GND
- (D) ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GND IN EXISTING DUCT.
- (E) UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA., WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GND



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USER NAME = Electrical	DESIGNED - DTJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - DTJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
PLOT DATE = 1/16/2025	DATE - 12/3/2024	REVISED -	

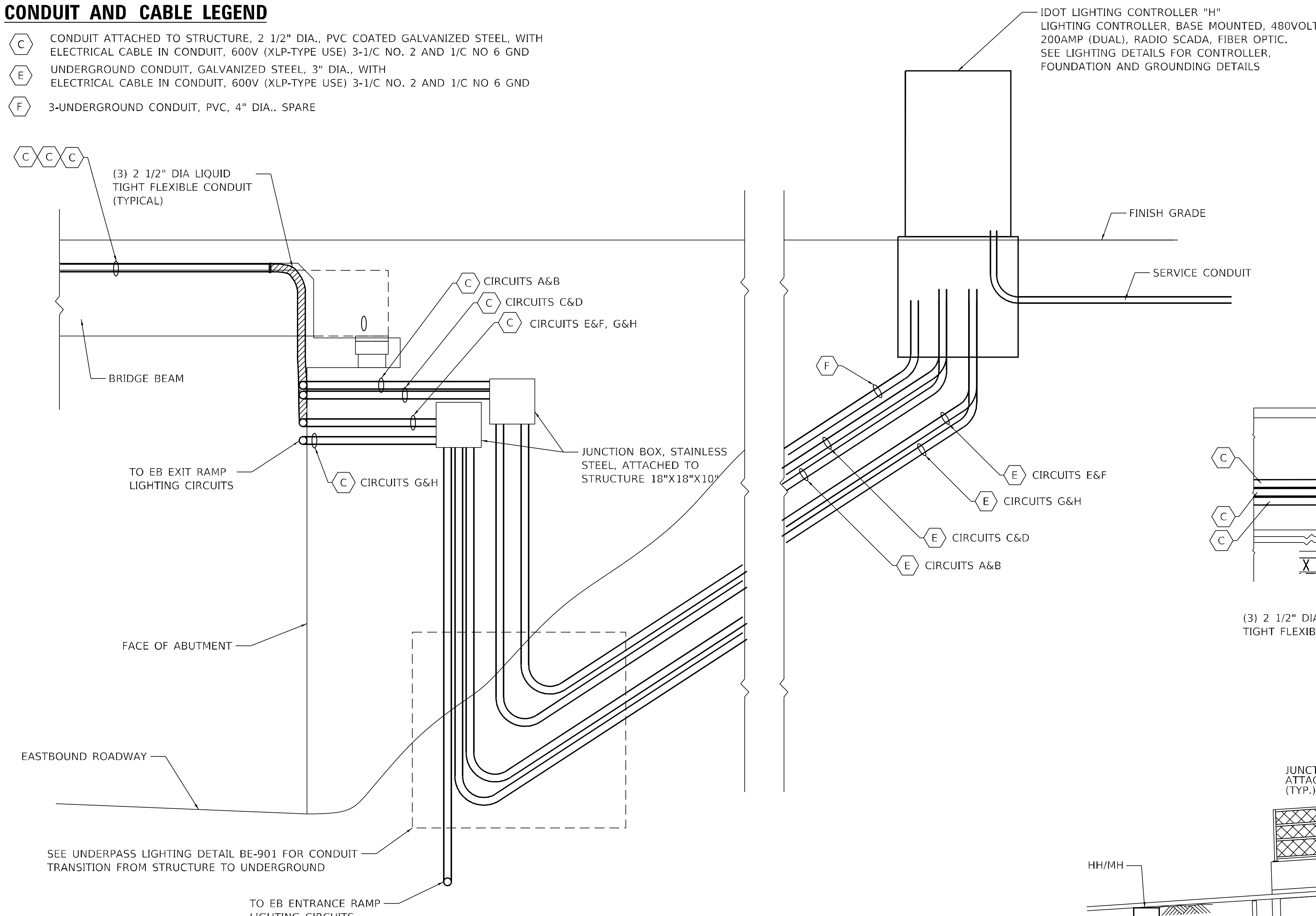
PROPOSED IDOT LIGHTING PLAN
I-290 AT LEAVITT STREET

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	82
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

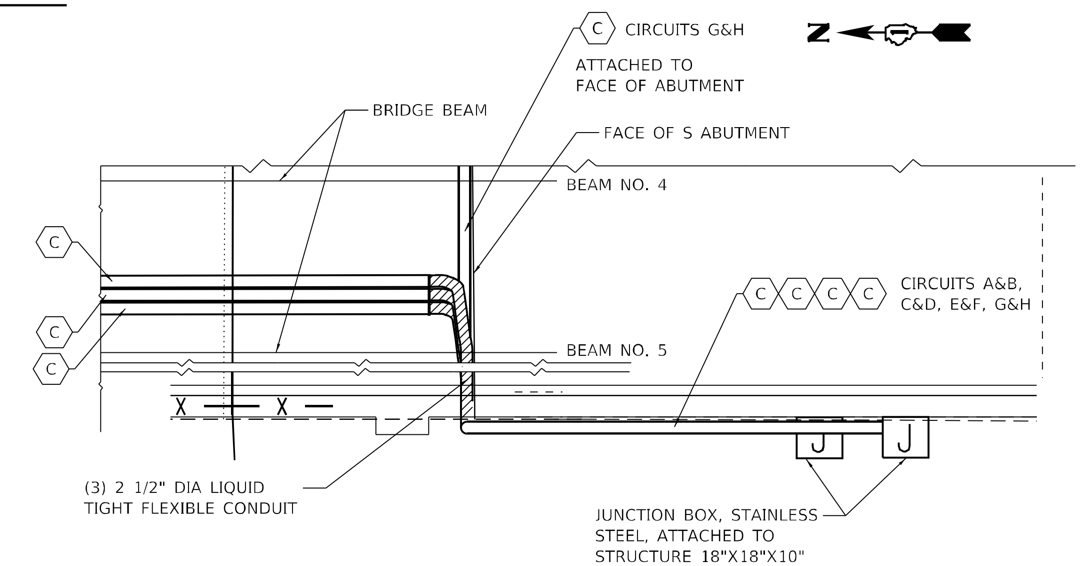
CONDUIT AND CABLE LEGEND

- (C) CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL, WITH ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GND
- (E) UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA., WITH ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2 AND 1/C NO 6 GND
- (F) 3-UNDERGROUND CONDUIT, PVC, 4" DIA.. SPARE



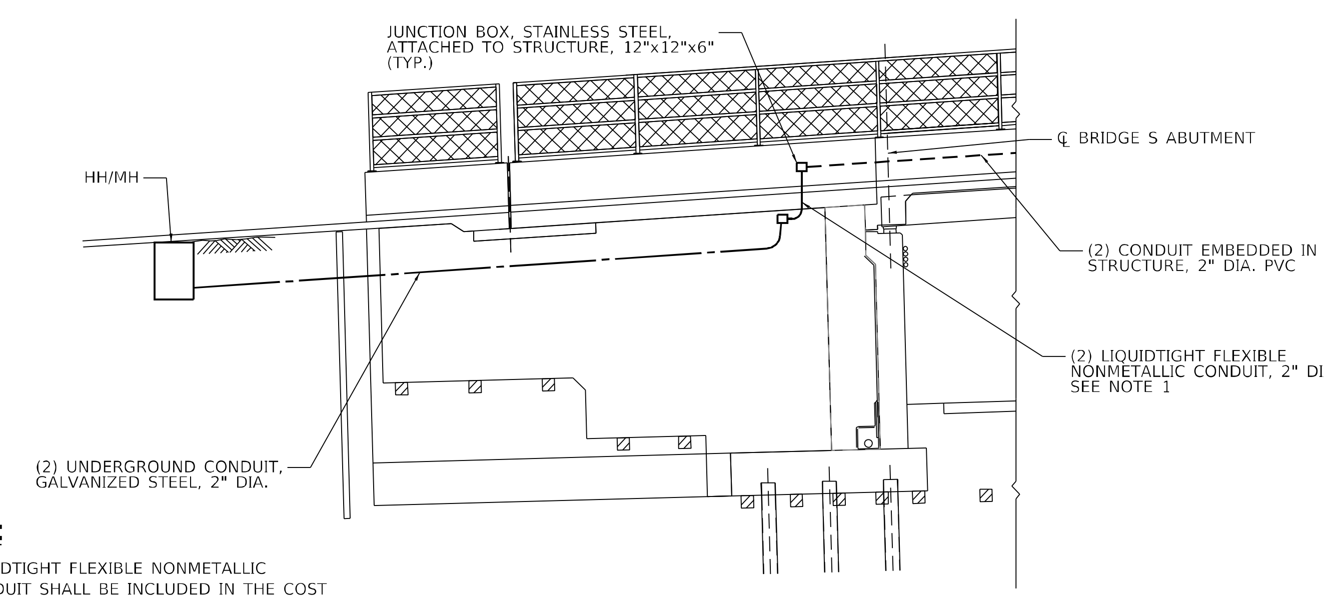
IDOT LIGHTING CONDUIT ROUTING DETAIL

VIEW FACING EAST
NOT TO SCALE



IDOT LIGHTING CONDUIT TRANSITION DETAIL

PLAN VIEW
NOT TO SCALE



NOTES:

1. LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x12"x6".
2. SEE HIGHWAY STANDARD 812001 FOR MORE INFORMATION.

CDOT LIGHTING CONDUIT TRANSITION DETAIL

VIEW FACING WEST
NOT TO SCALE

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USER NAME = Electrical	DESIGNED - DTJ	REVISED -	
	DRAWN - DTJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - JMV	REVISED -	
PLOT DATE = 1/16/2025	DATE - 12/3/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

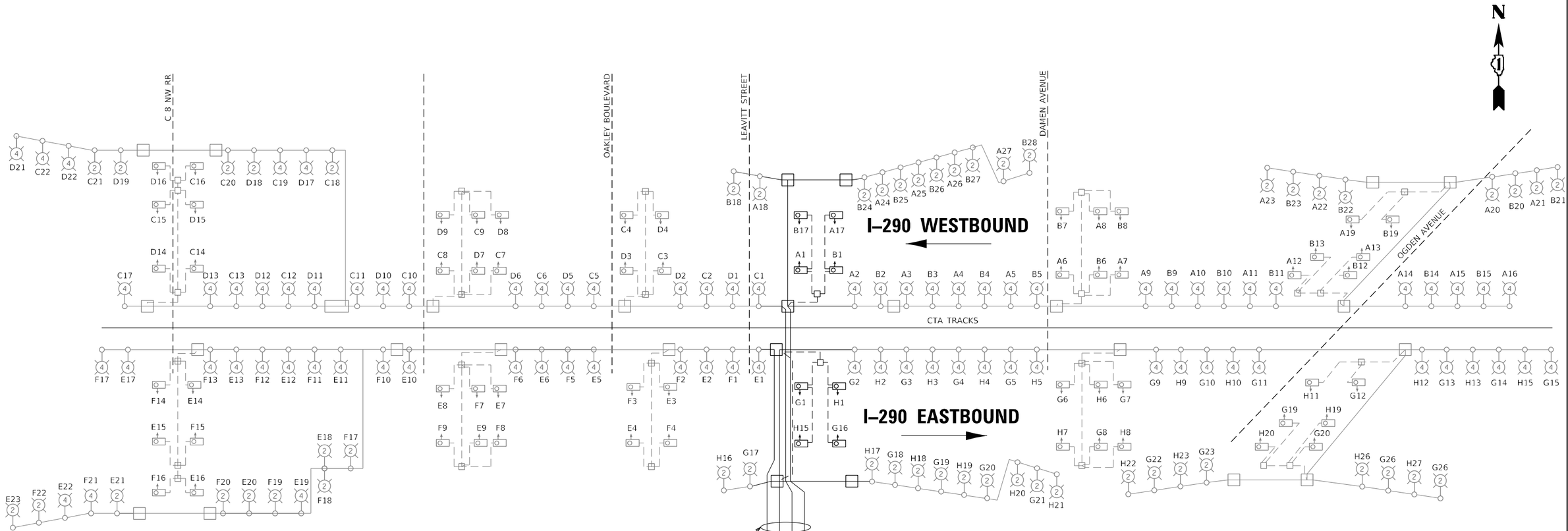
ATTACHED CONDUIT DETAILS
I-290 AT LEAVITT STREET

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	83

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT



LEGEND

- 3 - 1/C NO. 2 AWG ELECTRIC CABLES IN 1 - 1/4" CABLE DUCT AND NO. 6 AWG GROUNDING CONDUCTOR
- 3 - 1/C NO. 10 AWG ELECTRIC CABLES IN 1" CONDUIT
- EXISTING 400W HPS, M-C-III, LUMINARE
- EXISTING 200W HPS, M-C-III, LUMINARE
- EXISTING 55W LPS, UNDERPASS LUMINARE
- PROPOSED 56W LED UNDERPASS LUMINARE
- JUNCTION BOX FOR UNDERPASS LUMINARES - 6" X 6" X 12"
- JUNCTION BOX FOR UNDERGROUND DISTRIBUTION - 10" X 18" X 18"
- JUNCTION BOX EMBEDDED IN CONCRETE

LOAD TABULATION

CIRCUIT	LOAD		CIRCUIT	LOAD	
A	10-480W HPS 9-240W HPS 6-66W LPS 2-56W LED	26.28A 6,308W	B	9-480W HPS 10-240W HPS 6-66W LPS 2-56W LED	25.45A 6,108W
C	11-480W HPS 3-240W HPS 7-66W LPS	22.76A 5,462W	D	10-480W HPS 2-240W HPS 7-66W LPS	21.93A 5,262W
E	11-480W HPS 4-240W HPS 7-66W LPS	23.59A 5,662W	F	10-480W HPS 5-240W HPS 7-66W LPS	22.76A 5,462W
G	10-480W HPS 9-240W HPS 6-66W LPS 2-56W LED	26.28A 6,308W	H	9-480W HPS 10-240W HPS 6-66W LPS 2-56W LED	25.20A 6,048W
TOTAL WATTS: 23,740W			TOTAL	22,880W	
TOTAL LOAD = 40.31 KW					

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CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

USER NAME = Electrical	DESIGNED - DTJ	REVISED -
	DRAWN - DTJ	REVISED -
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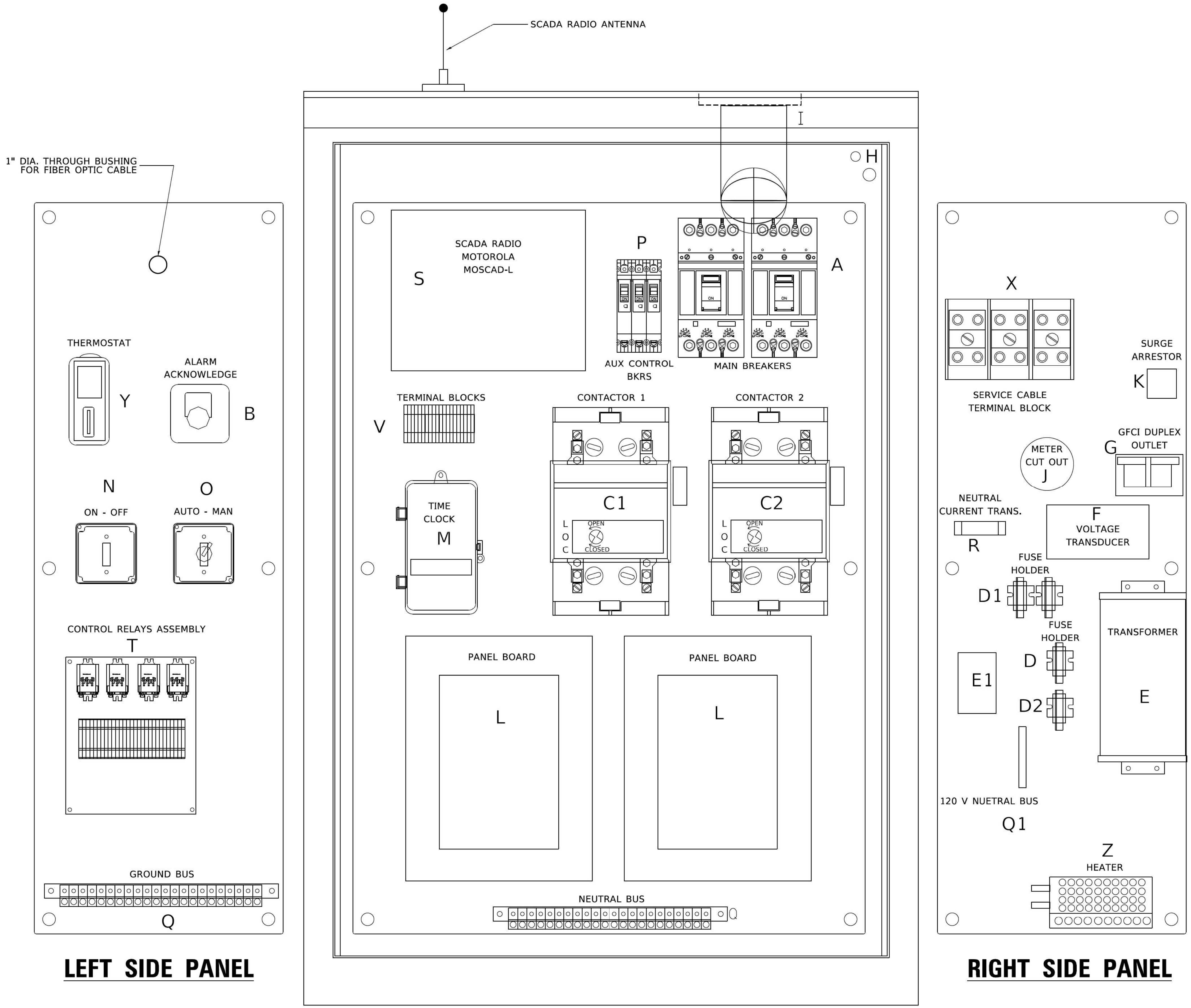
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT SINGLE LINE DIAGRAM
I–290 AT LEAVITT ST

SCALE: 1" = 80' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	84
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			



LEFT SIDE PANEL

RIGHT SIDE PANEL

ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2 ∗	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - ½ A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T ∗	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X ∗	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

Table: BILL OF MATERIALS

∗ TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

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	DRAWN -	REVISED -	
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PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

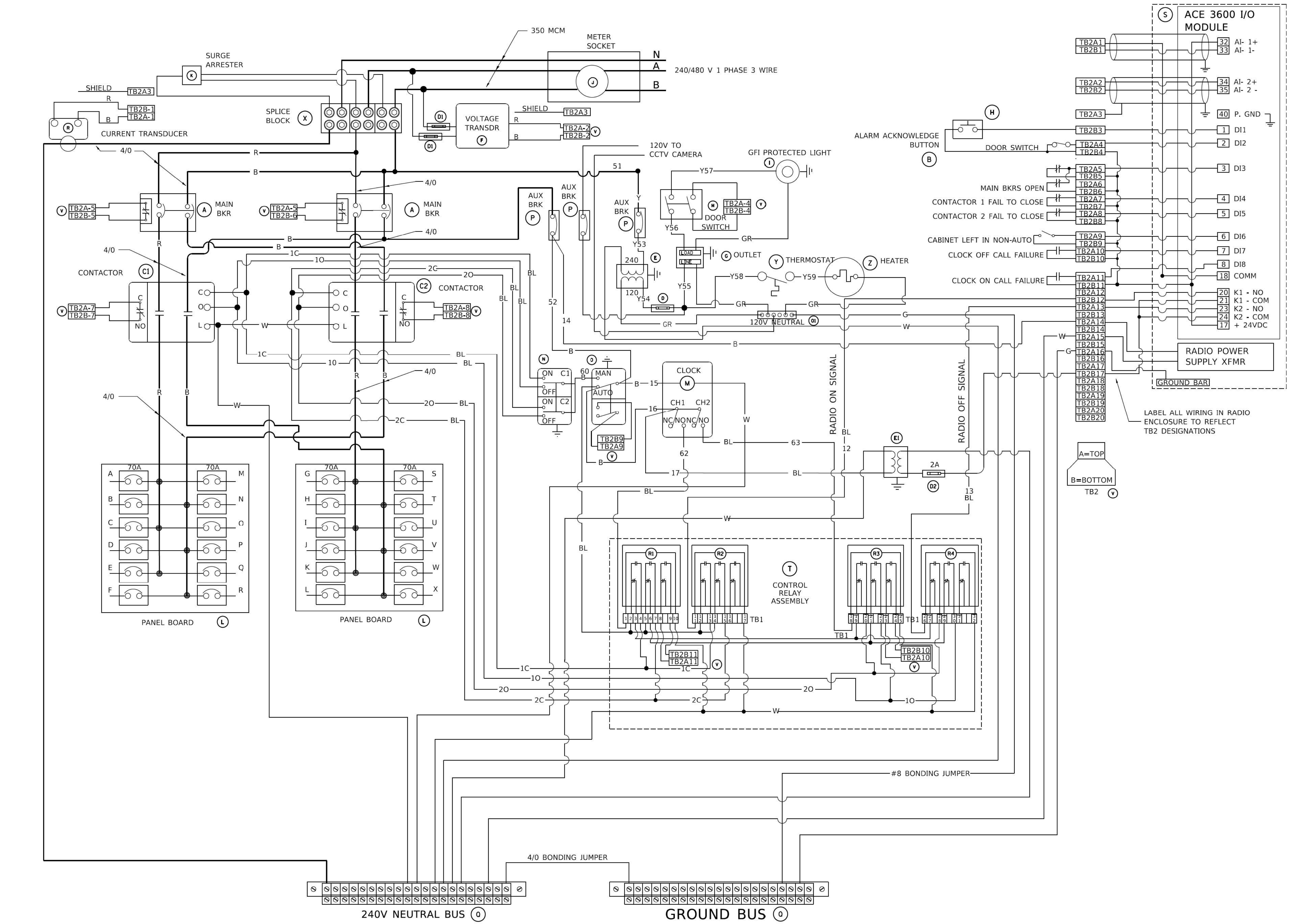
LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 1 OF 4 SHEETS | STA. _______ TO STA. _______

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	85

BE-206 | CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT



BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - ½ A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
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R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -

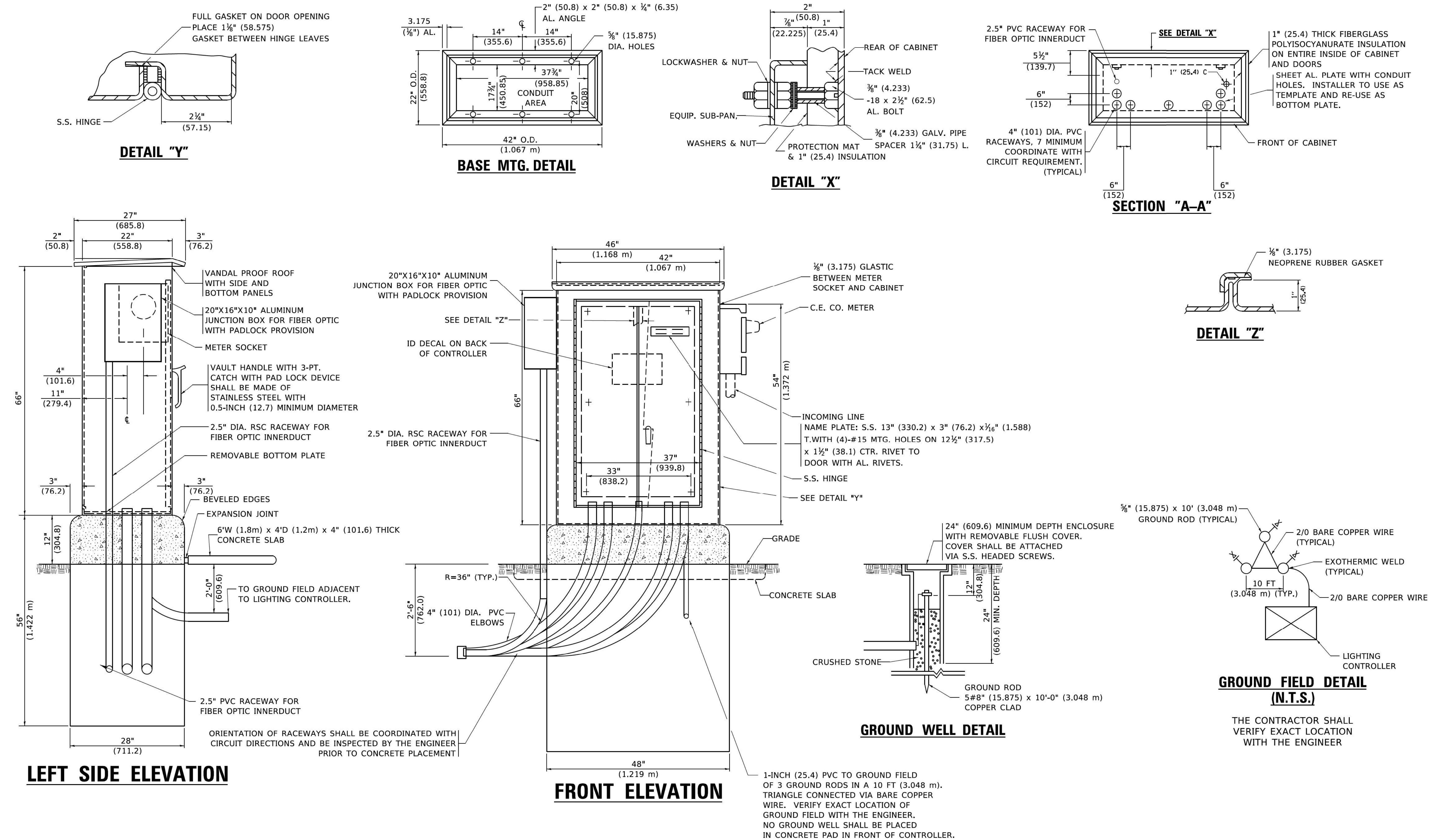
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 2 OF 4 SHEETS | STA. ______ TO STA. ______

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	86

BE-206 CONTRACT NO. 62P43
ILLINOIS FED. AID PROJECT



FULL GASKET ON DOOR OPENING
PLACE 1⅛" (58.575)
GASKET BETWEEN HINGE LEAVES
S.S. HINGE
2¼"
(57.15)
DETAIL "Y"
3.175
(⅛") AL.
2" (50.8) x 2" (50.8) x ¼" (6.35)
AL. ANGLE
14"
(355.6)
14"
(355.6)
⅝" (15.875)
DIA. HOLES
37¾"
(958.85)
CONDUIT
AREA
22" O.D.
(558.8)
17¾"
(450.85)
20"
(508)
42" O.D.
(1.067 m)
BASE MTG. DETAIL
2"
(50.8)
⅞"
(22.225)
1"
(25.4)
LOCKWASHER & NUT
REAR OF CABINET
TACK WELD
⅜" (4.233)
-18 x 2½" (62.5)
AL. BOLT
EQUIP. SUB-PAN
WASHERS & NUT
PROTECTION MAT
& 1" (25.4) INSULATION
⅜" (4.233) GALV. PIPE
SPACER 1¼" (31.75) L.
DETAIL "X"
2.5" PVC RACEWAY FOR
FIBER OPTIC INNERDUCT
SEE DETAIL "X"
1" (25.4) THICK FIBERGLASS
POLYISOCYANURATE INSULATION
ON ENTIRE INSIDE OF CABINET
AND DOORS
SHEET AL. PLATE WITH CONDUIT
HOLES. INSTALLER TO USE AS
TEMPLATE AND RE-USE AS
BOTTOM PLATE.
5½"
(139.7)
1" (25.4) C
6"
(152)
4" (101) DIA. PVC
RACEWAYS, 7 MINIMUM
COORDINATE WITH
CIRCUIT REQUIREMENT.
(TYPICAL)
FRONT OF CABINET
6"
(152)
6"
(152)
SECTION "A–A"
27"
(685.8)
2"
(50.8)
22"
(558.8)
3"
(76.2)
VANDAL PROOF ROOF
WITH SIDE AND
BOTTOM PANELS
20"X16"X10" ALUMINUM
JUNCTION BOX FOR FIBER OPTIC
WITH PADLOCK PROVISION
METER SOCKET
VAULT HANDLE WITH 3-PT.
CATCH WITH PAD LOCK DEVICE
SHALL BE MADE OF
STAINLESS STEEL WITH
0.5-INCH (12.7) MINIMUM DIAMETER
66"
4"
(101.6)
11"
(279.4)
2.5" DIA. RSC RACEWAY FOR
FIBER OPTIC INNERDUCT
REMOVABLE BOTTOM PLATE
3"
(76.2)
3"
(76.2)
BEVELED EDGES
EXPANSION JOINT
6'W (1.8m) x 4'D (1.2m) x 4" (101.6) THICK
CONCRETE SLAB
12"
(304.8)
2'-0"
(609.6)
TO GROUND FIELD ADJACENT
TO LIGHTING CONTROLLER.
56"
(1.422 m)
2.5" PVC RACEWAY FOR
FIBER OPTIC INNERDUCT
28"
(711.2)
LEFT SIDE ELEVATION
46"
(1.168 m)
42"
(1.067 m)
20"X16"X10" ALUMINUM
JUNCTION BOX FOR FIBER OPTIC
WITH PADLOCK PROVISION
SEE DETAIL "Z"
ID DECAL ON BACK
OF CONTROLLER
⅛" (3.175) GLASTIC
BETWEEN METER
SOCKET AND CABINET
C.E. CO. METER
54"
(1.372 m)
66"
INCOMING LINE
NAME PLATE: S.S. 13" (330.2) x 3" (76.2) x1⁄16" (1.588)
T.WITH (4)-#15 MTG. HOLES ON 12½" (317.5)
x 1½" (38.1) CTR. RIVET TO
DOOR WITH AL. RIVETS.
2.5" DIA. RSC RACEWAY FOR
FIBER OPTIC INNERDUCT
37"
(939.8)
33"
(838.2)
S.S. HINGE
SEE DETAIL "Y"
GRADE
R=36" (TYP.)
CONCRETE SLAB
2'-6"
(762.0)
4" (101) DIA. PVC
ELBOWS
ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH
CIRCUIT DIRECTIONS AND BE INSPECTED BY THE ENGINEER
PRIOR TO CONCRETE PLACEMENT
48"
(1.219 m)
FRONT ELEVATION
1-INCH (25.4) PVC TO GROUND FIELD
OF 3 GROUND RODS IN A 10 FT (3.048 m).
TRIANGLE CONNECTED VIA BARE COPPER
WIRE. VERIFY EXACT LOCATION OF
GROUND FIELD WITH THE ENGINEER.
NO GROUND WELL SHALL BE PLACED
IN CONCRETE PAD IN FRONT OF CONTROLLER.
⅛" (3.175)
NEOPRENE RUBBER GASKET
1"
(25.4)
DETAIL "Z"
24" (609.6) MINIMUM DEPTH ENCLOSURE
WITH REMOVABLE FLUSH COVER.
COVER SHALL BE ATTACHED
VIA S.S. HEADED SCREWS.
12"
(304.8)
24"
(609.6) MIN. DEPTH
CRUSHED STONE
GROUND ROD
5#8" (15.875) x 10'-0" (3.048 m)
COPPER CLAD
GROUND WELL DETAIL
⅝" (15.875) x 10' (3.048 m)
GROUND ROD (TYPICAL)
2/0 BARE COPPER WIRE
(TYPICAL)
EXOTHERMIC WELD
(TYPICAL)
10 FT
(3.048 m) (TYP.)
2/0 BARE COPPER WIRE
LIGHTING
CONTROLLER
GROUND FIELD DETAIL
(N.T.S.)
THE CONTRACTOR SHALL
VERIFY EXACT LOCATION
WITH THE ENGINEER

USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 3 OF 4 SHEETS | STA. ______ TO STA. ______

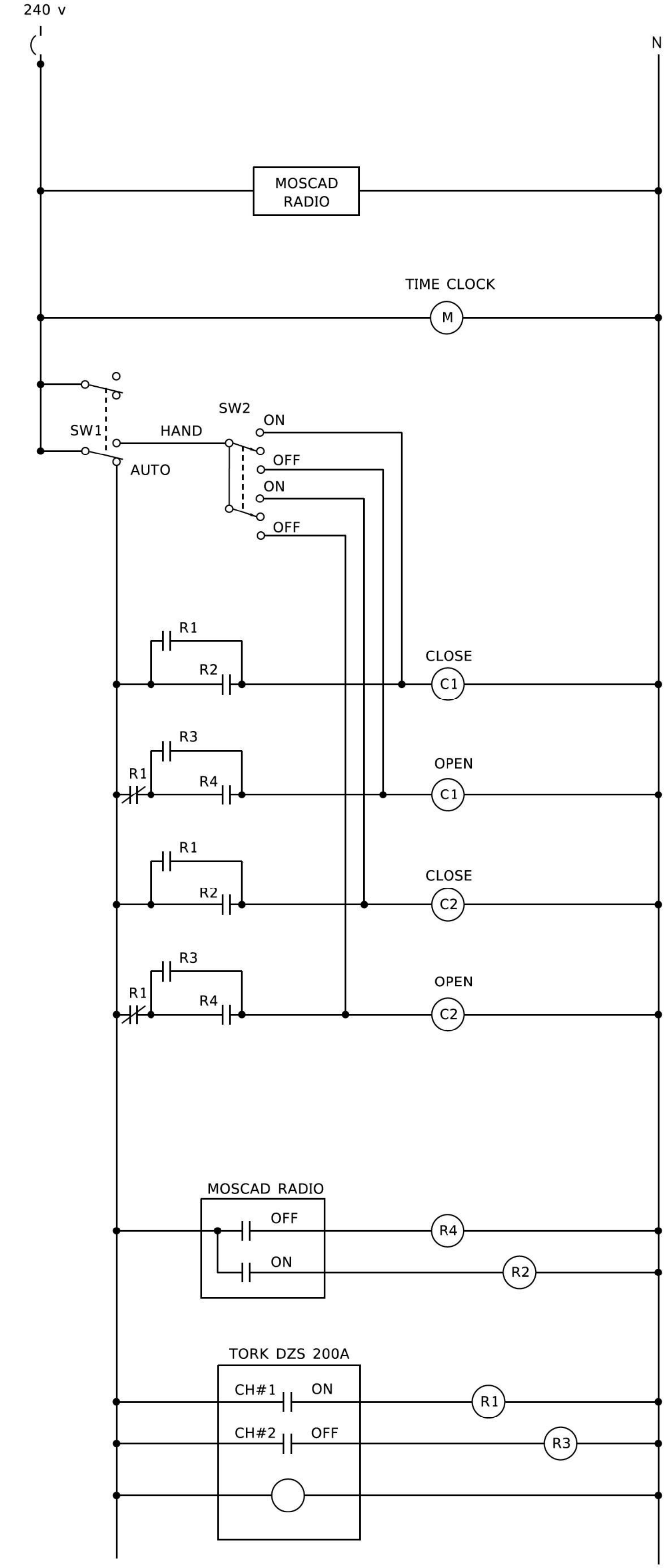
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	87
BE-206		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

NOTES

1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
3. NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
12. SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R = RED	Y = YELLOW
B = BLACK	W = WHITE
BL = BLUE	G = GREEN
	G = GREY

19. MOSCAD I/O WIRING SHALL BE:
    DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.
    ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.
    AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
20. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
21. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



CONTROL CIRCUIT LADDER LOGIC DIAGRAM

MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

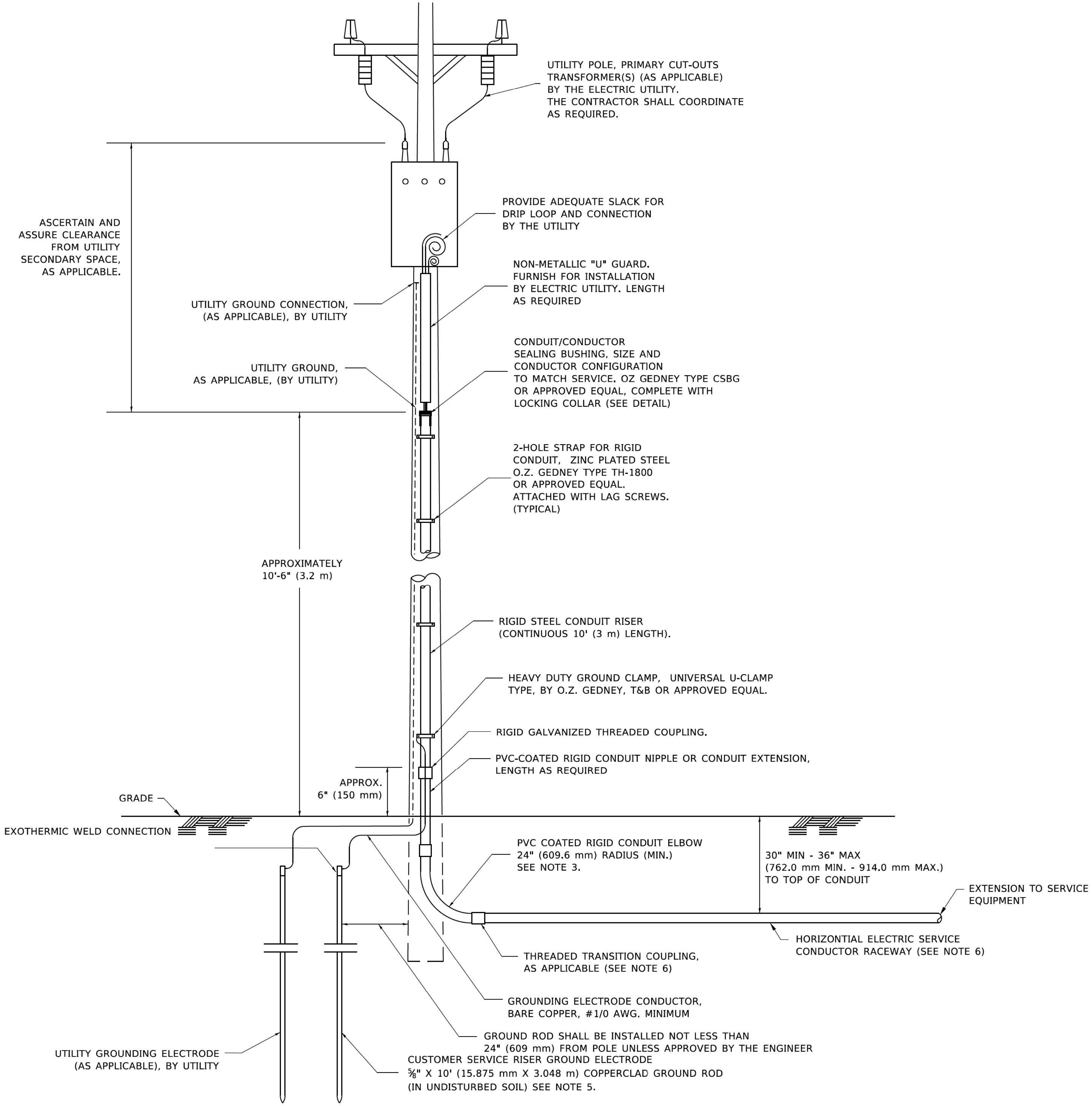
MIXED I/O MODULE MODEL NUMBER V436

USER NAME = leysa	DESIGNED - R. TOMSONS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/15/2020	DATE - 01-15-2020	REVISED -	

LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION

SCALE: NONE | SHEET 4 OF 4 SHEETS | STA. ______ TO STA. ______

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	88
BE-206		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

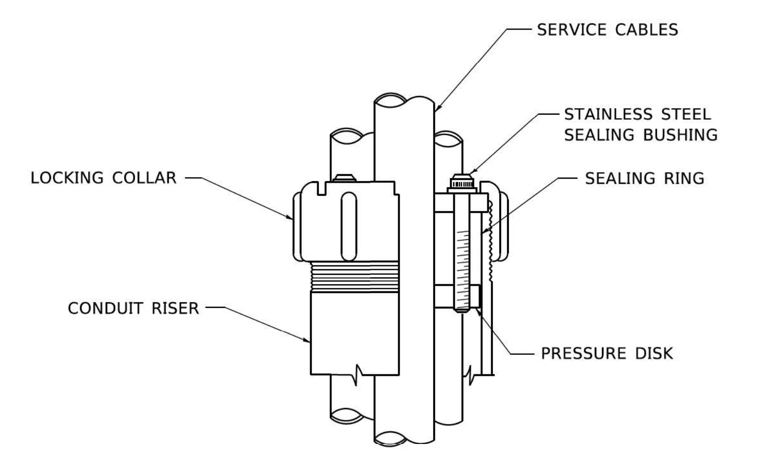


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

USER NAME = footemj	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - MEA	REVISED -	
PLOT DATE = 4/19/2019	DATE -	REVISED -	

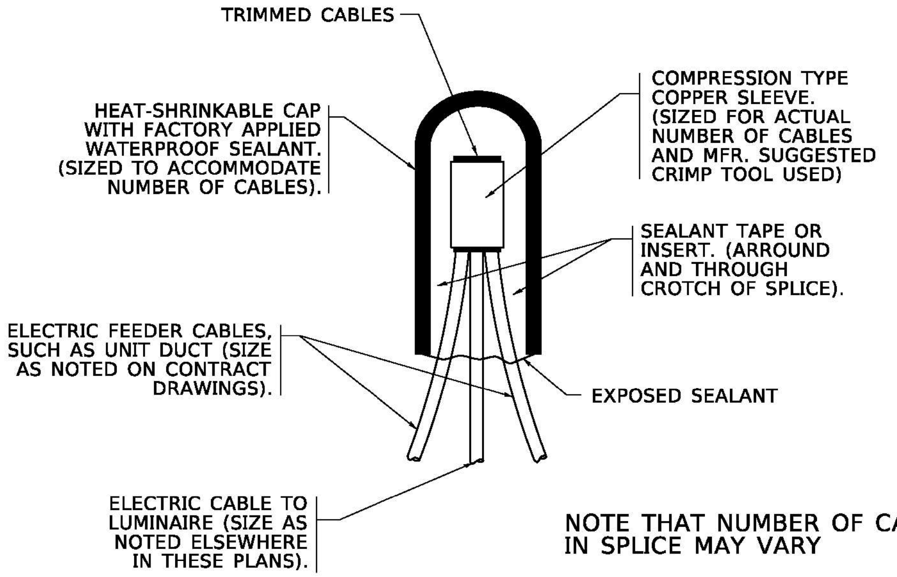
ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	89

BE–220 CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT



NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY

TYPICAL SPLICE DETAIL

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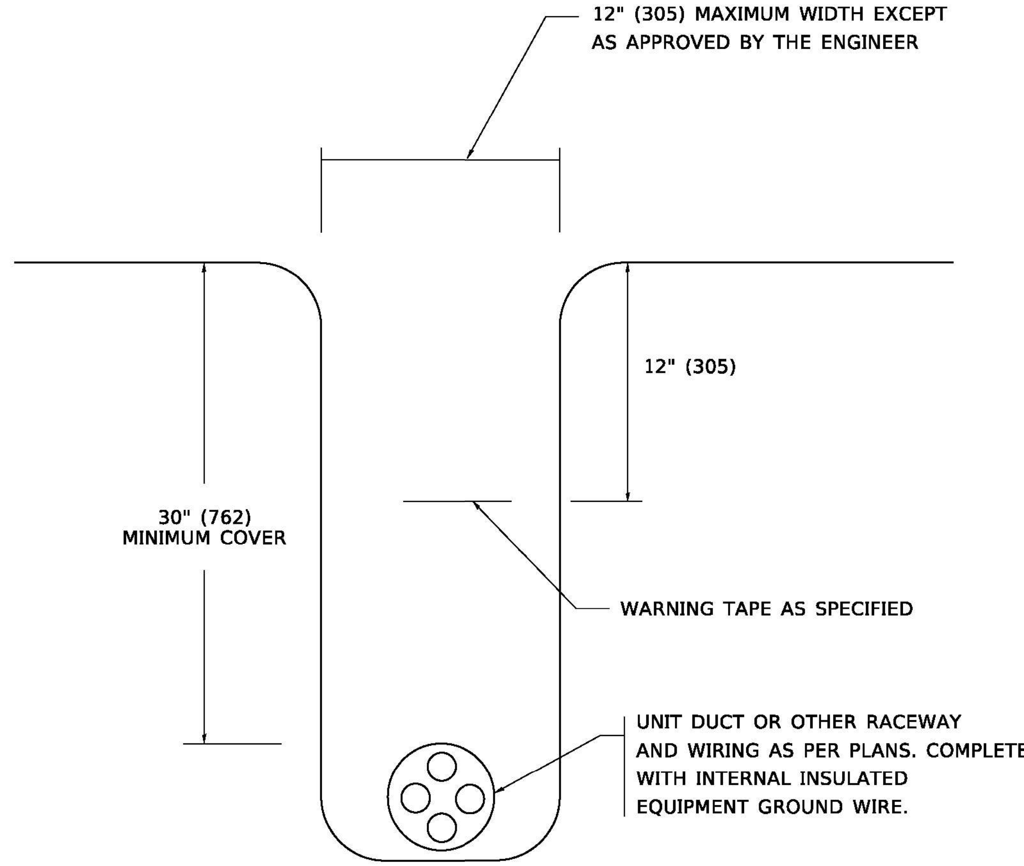

TYPICAL WIRING IN TRENCH DETAIL

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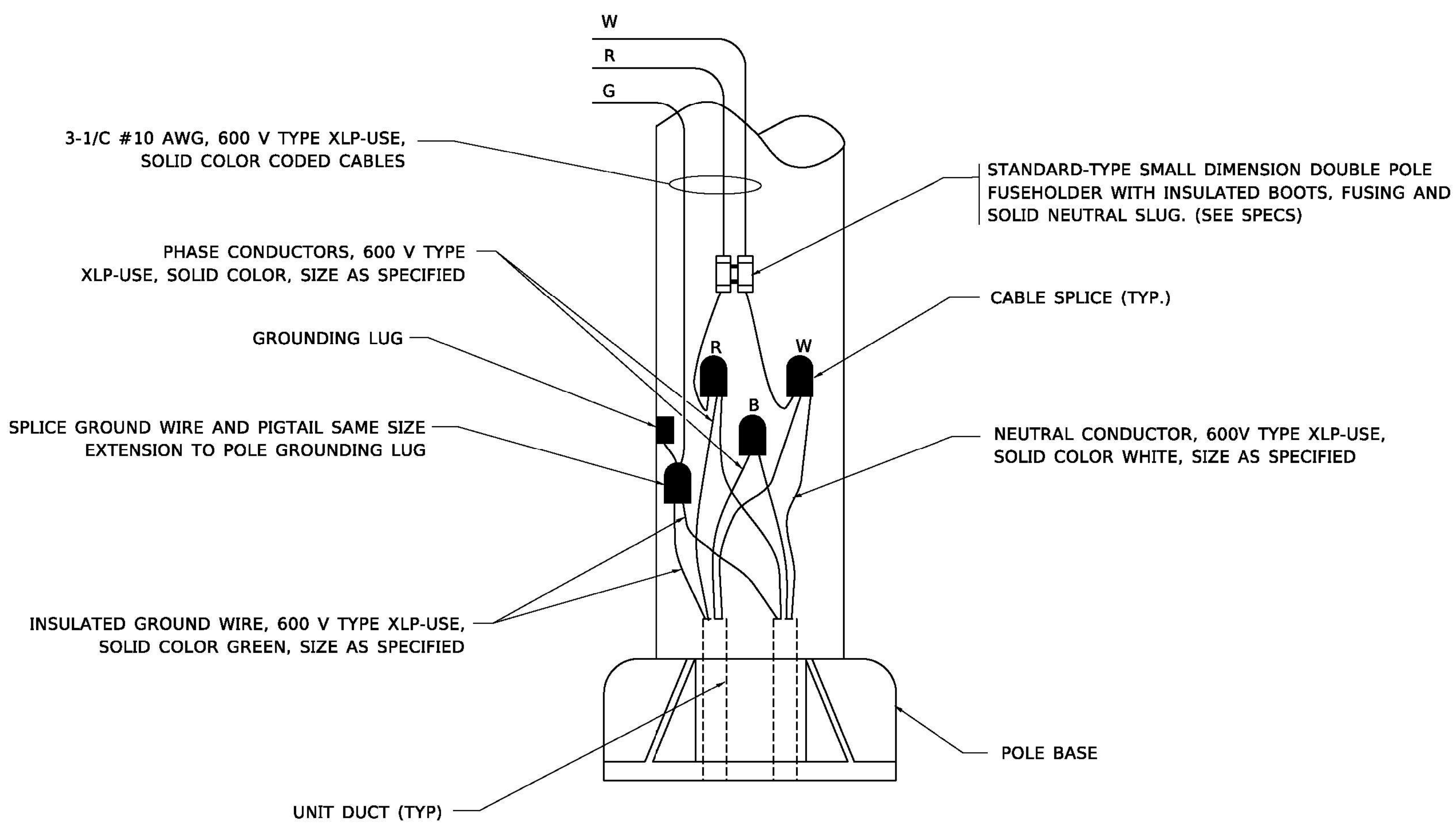

POLE WIRING DETAIL

N.T.S.

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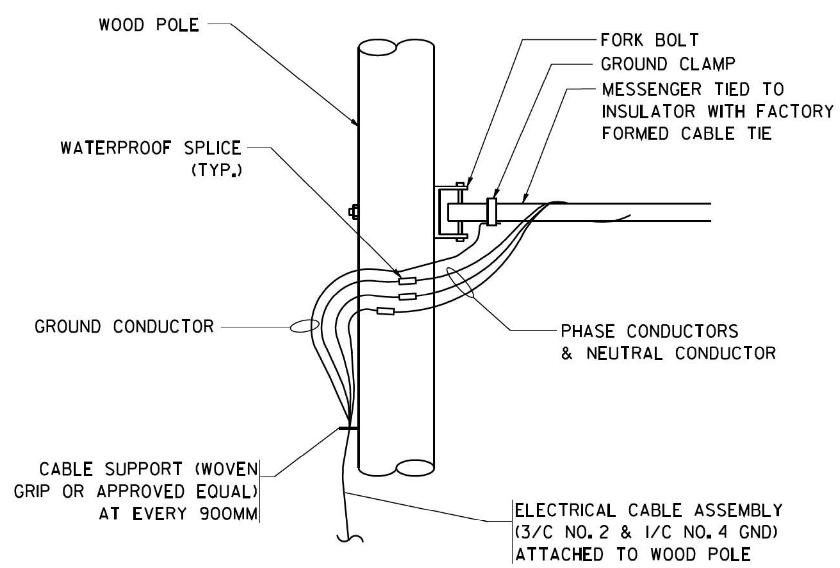
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	90
BE-702		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			



AERIAL CABLE CONNECTION DETAIL

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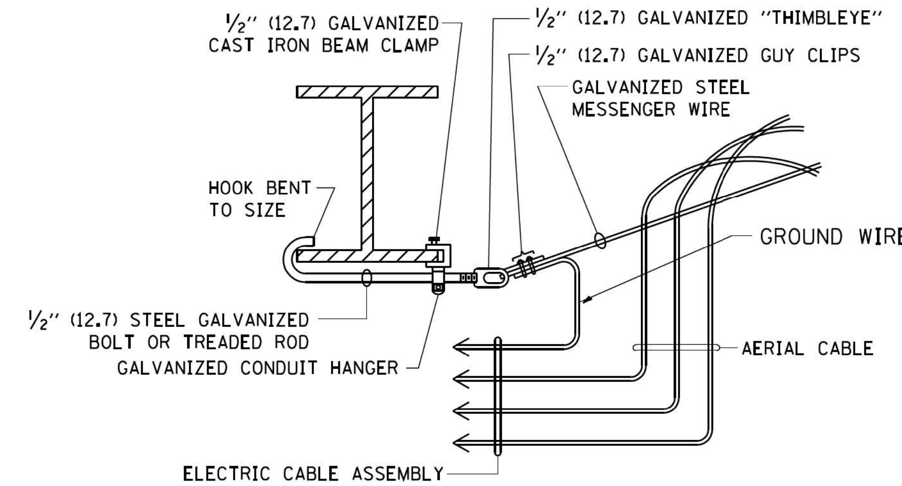

AERIAL CABLE ATTACHED TO STRUCTURE

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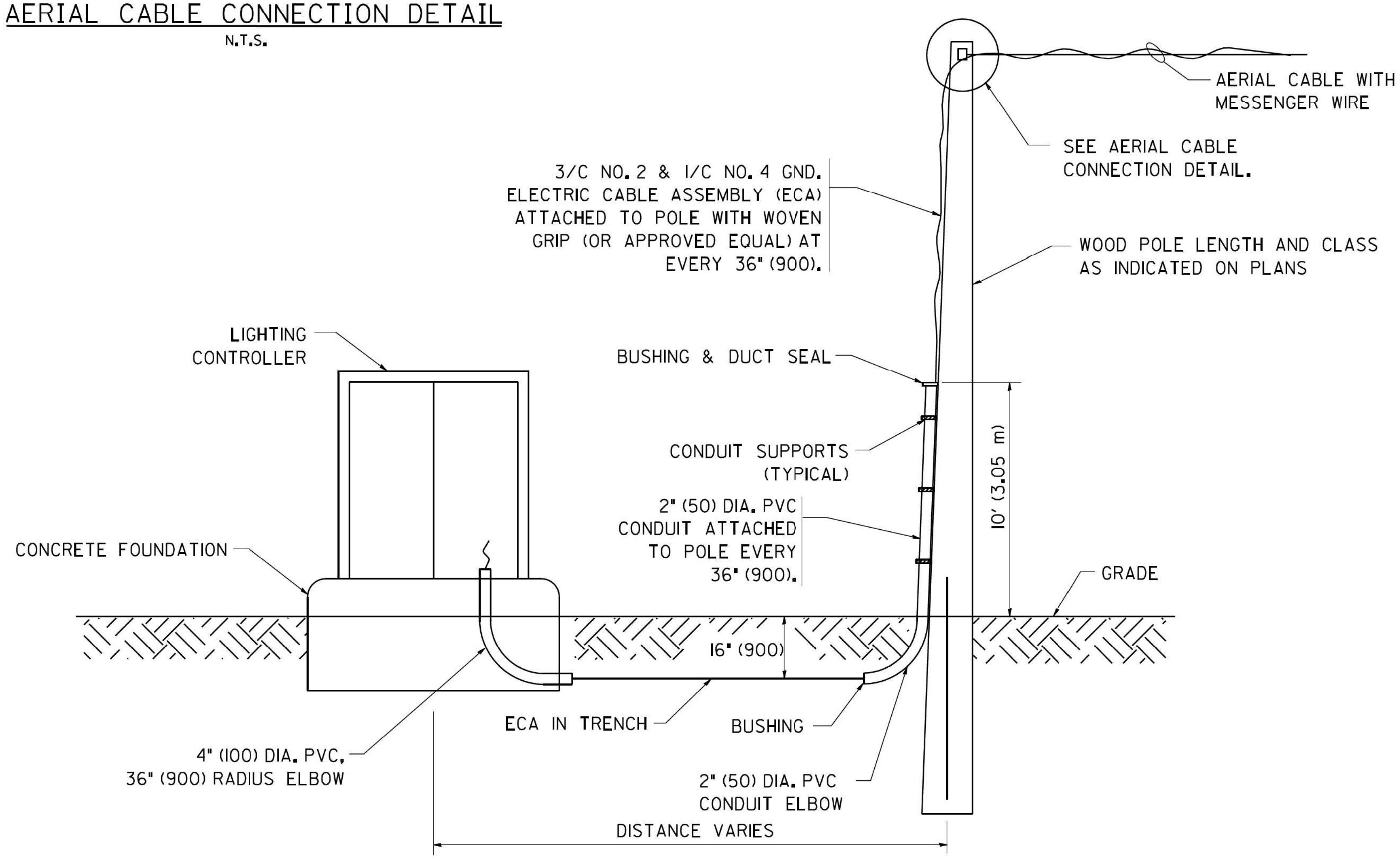

WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

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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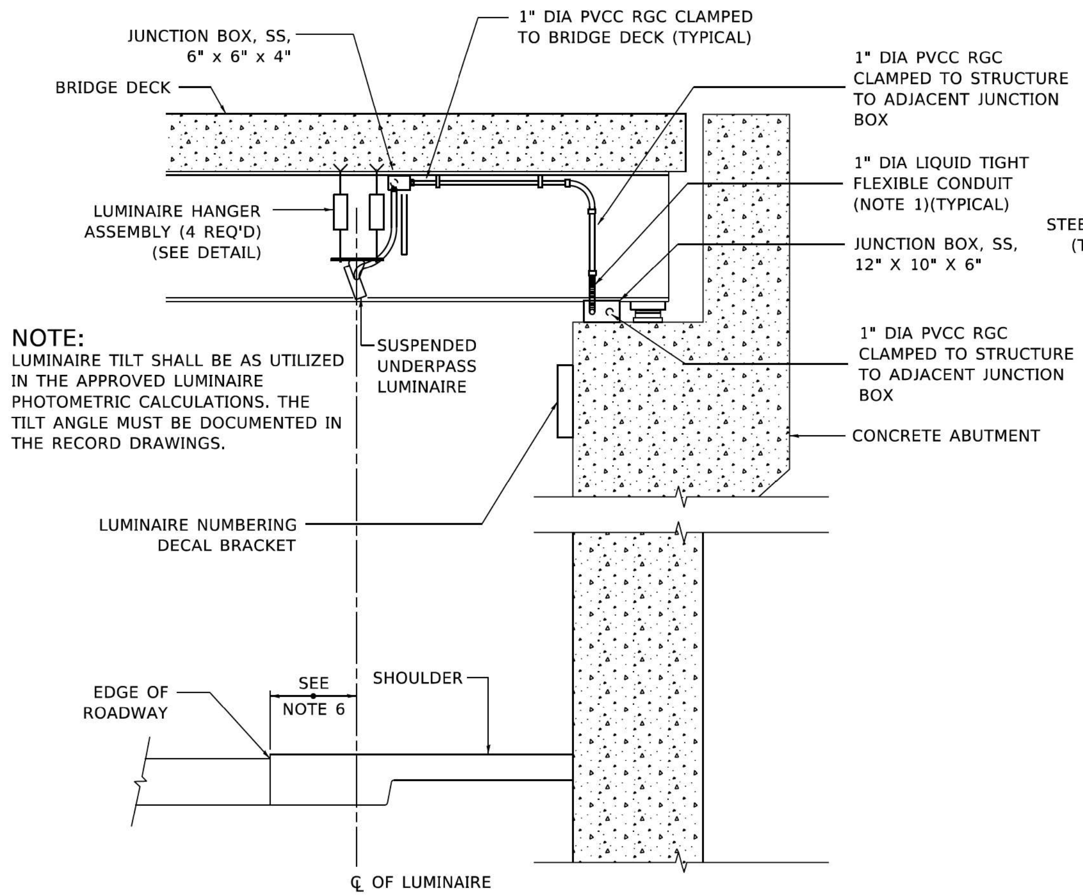
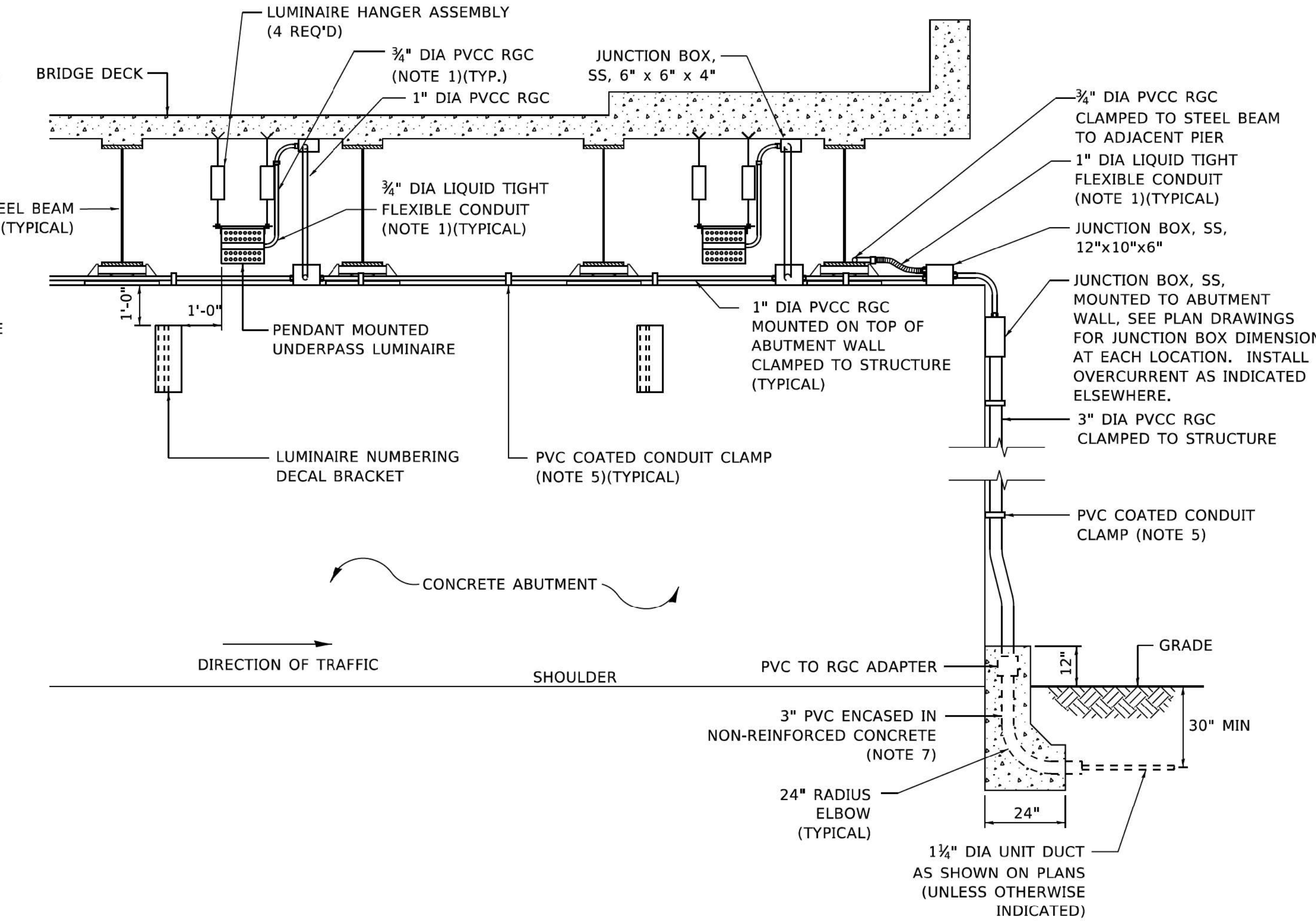
TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

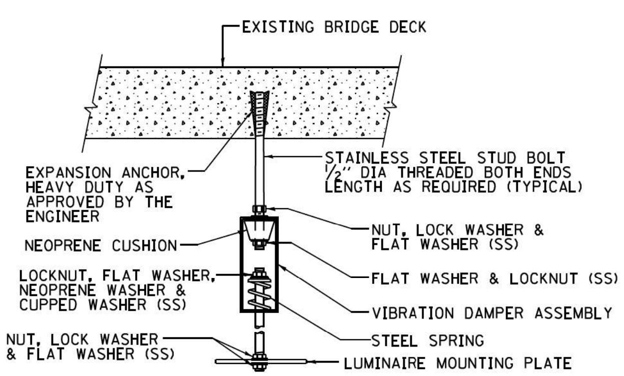
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	91
	BE-801	CONTRACT NO. 62P43		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



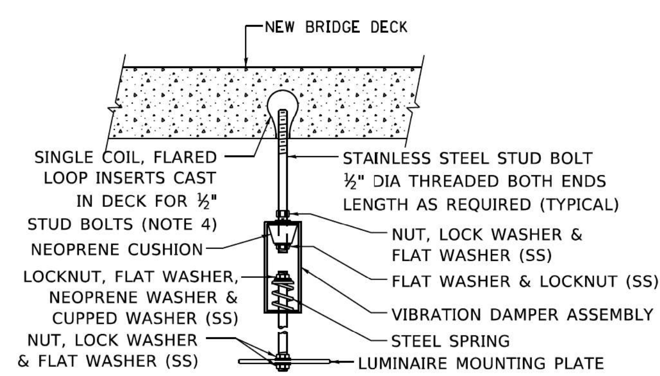


NOTES:

1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
9. IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).

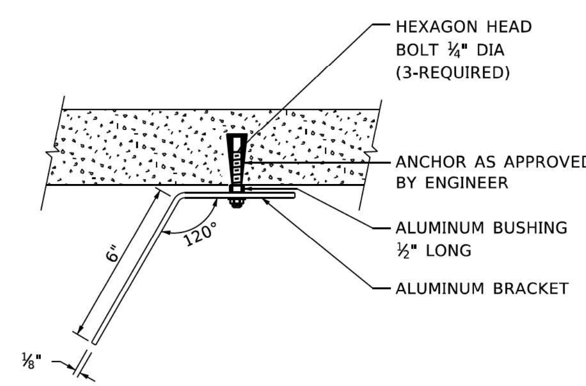


EXISTING BRIDGE DECK INSTALLATION

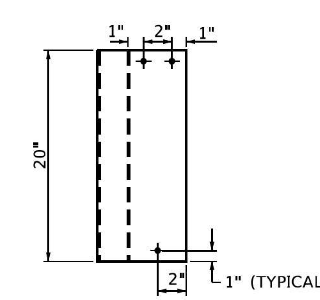


NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



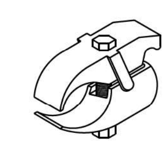
TOP VIEW



ELEVATION

LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE



PVC COATED CONDUIT BEAM CLAMP

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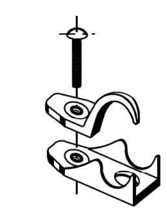

PVC COATED CONDUIT CLAMP

NOT TO SCALE

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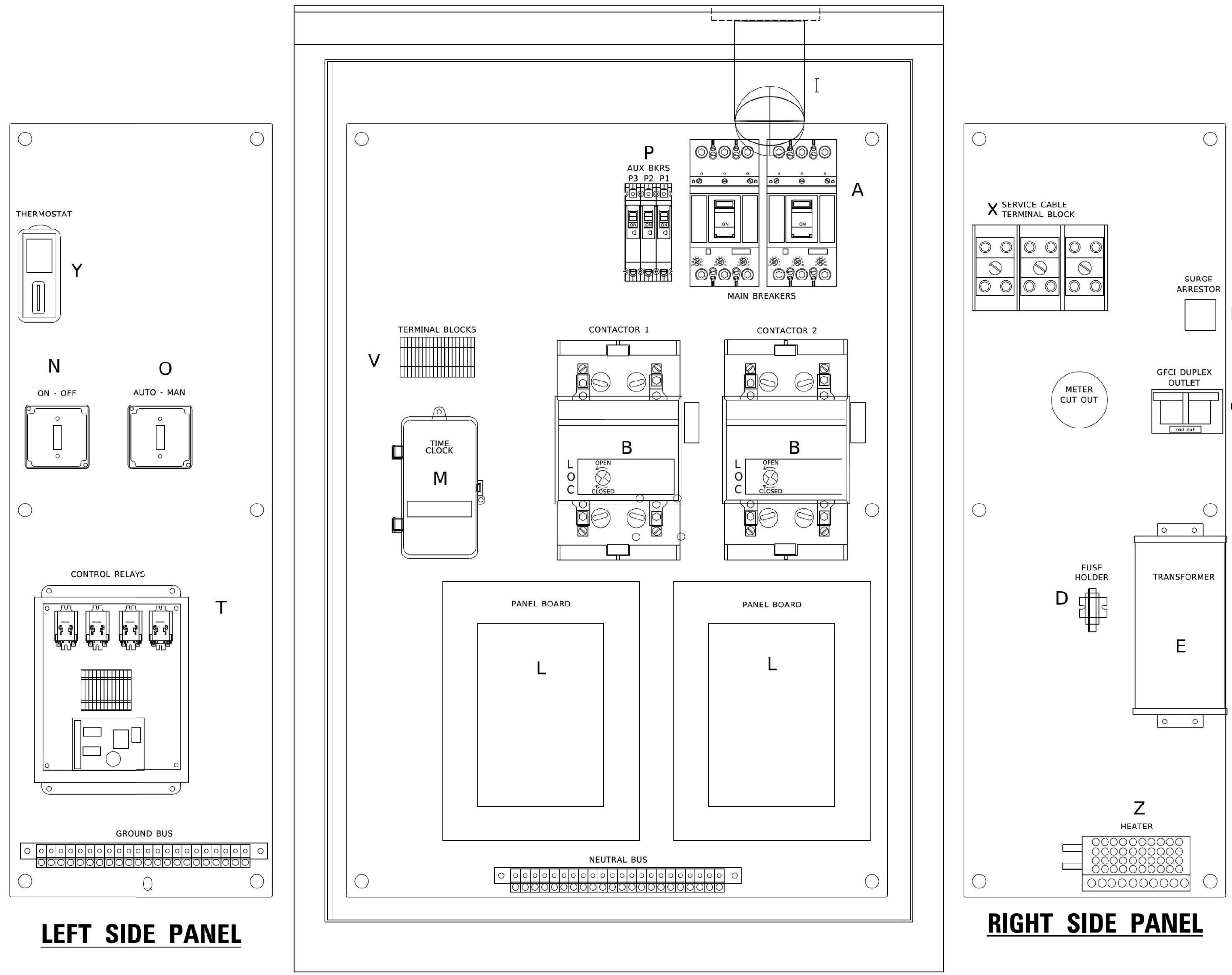
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	92
	BE-901	CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			



LEFT SIDE PANEL

RIGHT SIDE PANEL

BILL OF MATERIALS

ITEM *	QTY	DESCIPTION
A	2	MAIN BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	2	MECHANICAL CONTRACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	SECTIONAL FUSE HOLDER
E	1	2.0 KVA 277V-240/120 TRASFORMER
G	1	15 AMP GFCI
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OF
O	1	DPDT 20 AMP AUTO-MANUAL
P1	1	BREAKER 1P 15A
P2	1	BREAKER 1P 15A
P3	1	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X ¼
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH DPDT 25 AMP RELAYS (R1,R2,R3,R4). MOMENTARY CONTACT ADAPTER. QTY 12 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	CHROMALOX WR 80, 40-80 DEG THERMOSTAT
Z	1	HEATREX 276-10 375 WATT HEATER

*

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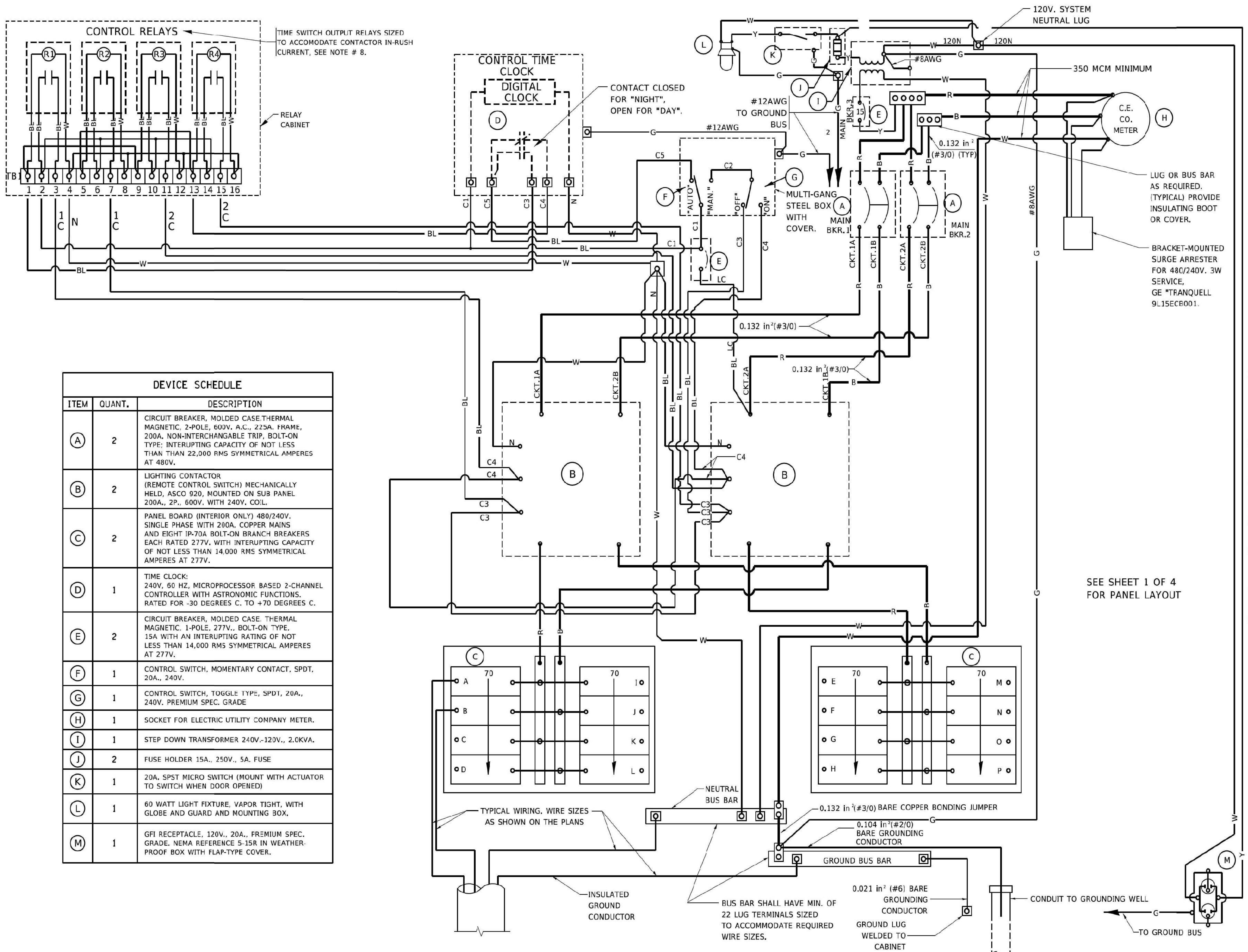
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING CONTROLLER DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	93
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		



DEVICE SCHEDULE

ITEM	QUANT.	DESCRIPTION
(A)	2	CIRCUIT BREAKER, MOLDED CASE.THERMAL MAGNETIC, 2-POLE, 600V. A.C., 225A. FRAME, 200A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERUPTING CAPACITY OF NOT LESS THAN THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
(B)	2	LIGHTING CONTACTOR (REMOTE CONTROL SWITCH) MECHANICALLY HELD, ASCO 920, MOUNTED ON SUB PANEL 200A., 2P., 600V. WITH 240V. COIL.
(C)	2	PANEL BOARD (INTERIOR ONLY) 480/240V. SINGLE PHASE WITH 200A. COPPER MAINS AND EIGHT IP-70A BOLT-ON BRANCH BREAKERS EACH RATED 277V. WITH INTERUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	TIME CLOCK: 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS. RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(E)	2	CIRCUIT BREAKER, MOLDED CASE. THERMAL MAGNETIC. 1-POLE. 277V., BOLT-ON TYPE. 15A WITH AN INTERUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 20A., 240V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20A., 240V. PREMIUM SPEC. GRADE
(H)	1	SOCKET FOR ELECTRIC UTILITY COMPANY METER.
(I)	1	STEP DOWN TRANSFORMER 240V.-120V., 2.0KVA.
(J)	2	FUSE HOLDER 15A., 250V., 5A. FUSE
(K)	1	20A. SPST MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(L)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX.
(M)	1	GFI RECEPTACLE, 120V., 20A., PREMIUM SPEC. GRADE. NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.

NOTES:

1. ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE SELF STICKING TAGS.

   INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
2. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.

   R = RED Y = YELLOW
   B = BLACK W = WHITE
   BL = BLUE G = GREEN
3. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
4. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
5. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
6. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL"
7. SEE CABINET AND FOUNDATION DETAIL SHEET FOR SCHEMATIC DIAGRAM AND DEVICE LAYOUT.
8. CONTROL RELAYS CAN BE ELIMINATED IF THE CONTROL TIME CLOCK OUTPUT CONTACTS ARE RATED FOR CONTACTOR INRUSH CURRENT.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

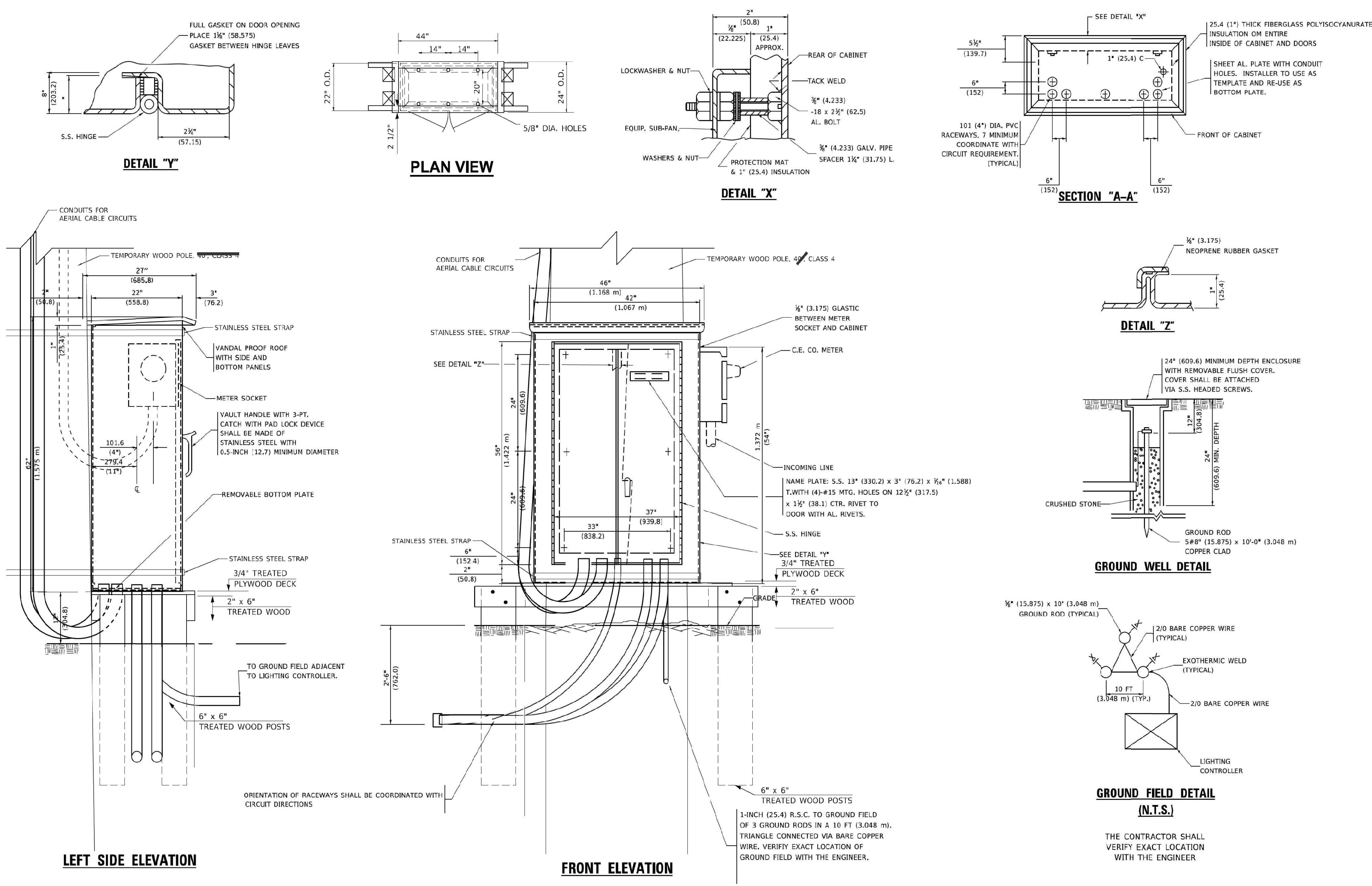
IDOT TEMPORARY LIGHTING CONTROLLER DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	93A

CONTRACT NO. 62P43

ILLINOIS FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING CONTROLLER DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	93B
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

NOTES:

1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY.

2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.

3-5. NOT USED.

6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.

7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.

8. METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.

9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.

10. ALL DEVICES SHALL BE FRONT REMOVABLE.

11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY.

12. SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET.

13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.

14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.

15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.

16. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.

17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.

18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R - RED	Y - YELLOW
B - BLACK	W - WHITE
BL - BLUE	G - GREEN

19. ALL DIMENSIONS ARE IN MILIMETERS (INCHES) UNLESS OTHERWISE INDICATED.

20. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE.

21. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING CONTROLLER DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	93C
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

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Bench Mark: Chiseled "□" on west side of traffic signal foundation at southeast corner of Leavitt St and Van Buren St. Elev. 594.77.

Existing Structure: Structure Number 016-2079, built in 1953 as FA Route 131, Sections 3-B-8 and 3-F-8. The north approach slab was constructed in 1958 as FAI Route 1, Section 2527-108.1. In 1983, under IDOT Contract C-91-059-80 (FAI Rte I-290, Section 042BR), the overlay was replaced, the approach sidewalks, curb, and gutter were replaced, the expansion joints were replaced, shim plates were added beneath the bearings and the handrails were replaced. The structure is a three span non-composite continuous wide flange steel beam bridge with concrete closed wall abutments and two reinforced concrete multi-column piers supported on metal shell cast in place concrete piles. The existing bridge measures 262'-10" from back to back abutments, 62'-4" out to out, with no skew. New abutments are going to be constructed and the new bridge will measure 274'-5" from back to back abutments.

Traffic Control: Leavitt Street to be closed during construction.

No Salvage.

DESIGN SPECIFICATIONS

(New Construction)
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.086g
Design Spectral Acceleration at 0.2 sec (SDS) = 0.145g
Soil Site CLass = D

LOADING HL-93

Allow 25#/sq. ft. for future wearing surface

LIVE LOAD DEFLECTION

Maximum deflection shall not exceed Span Length/1000

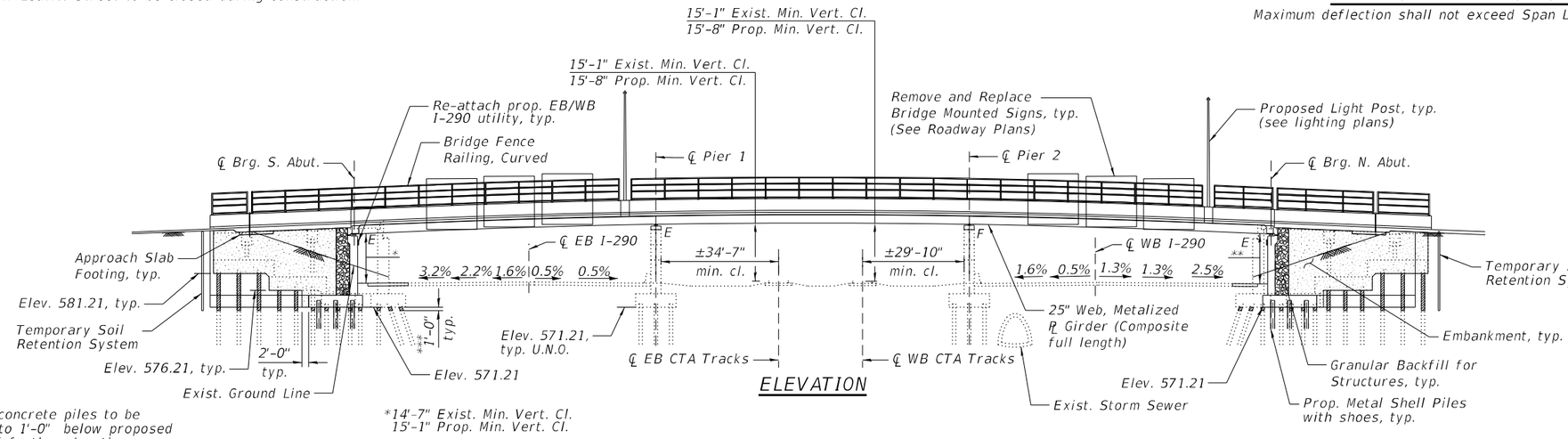
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure Concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50, Metalized)

EXISTING UNITS

f'c = 3,500 psi
fy = 40,000 psi

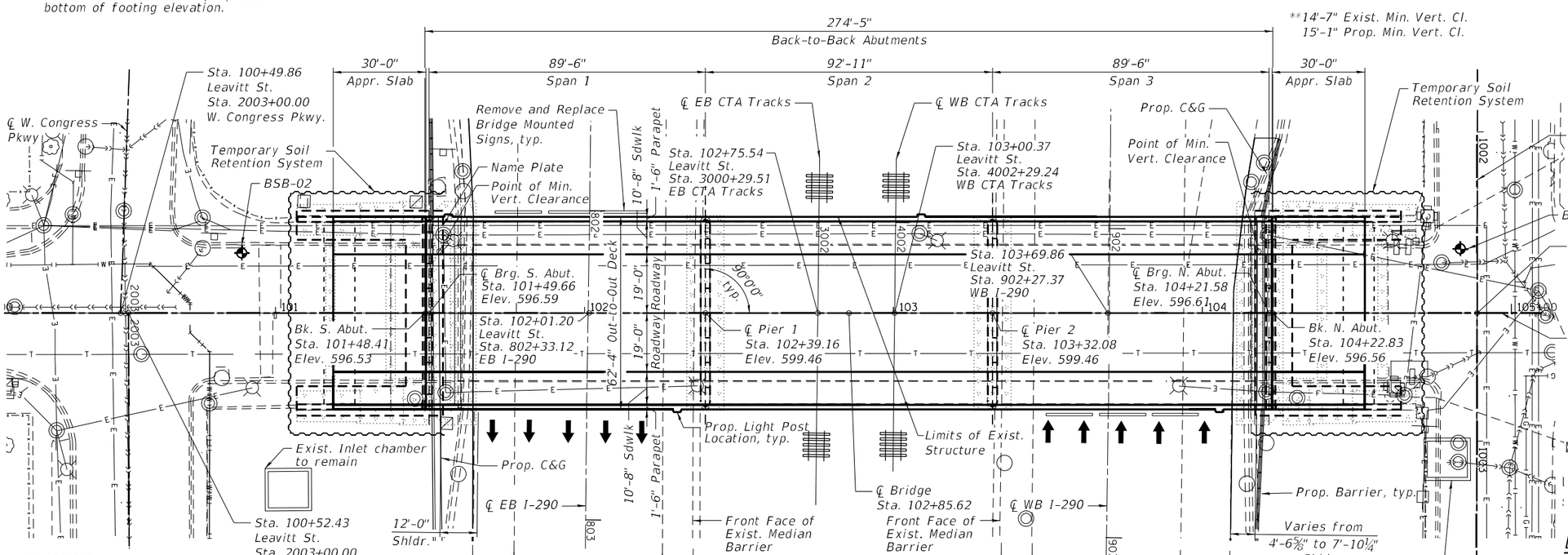


ELEVATION

*** Existing concrete piles to be removed to 1'-0" below proposed bottom of footing elevation.

*14'-7" Exist. Min. Vert. Cl.
15'-1" Prop. Min. Vert. Cl.

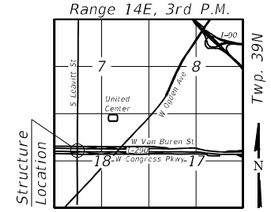
**14'-7" Exist. Min. Vert. Cl.
15'-1" Prop. Min. Vert. Cl.



PLAN

SCOPE OF WORK

1. Temporary support existing utilities during construction.
2. Remove existing superstructure and vault spans.
3. Remove abutments.
4. Construct new closed abutments at new locations.
5. Repair existing piers and remove graffiti.
6. Construct proposed pier extensions.
7. Construct proposed superstructure and reattach utilities.
8. Construct proposed approach slabs.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
LEAVITT STREET OVER I-290 AND CTA
F.A.I. RTE. 290 - SEC. 2021-120-BR
COOK COUNTY
STATION 102+85.62
STRUCTURE NO. 016-2079

LEGEND

- Existing Electrical
- Existing Underground Telephone
- Existing Underground Gas Line
- Existing Underground Combined Sewer
- Existing Underground Water Line
- Boring

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S-01 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	94
		CONTRACT NO.		62P43
	ILLINOIS FED. AID PROJECT			

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GENERAL NOTES

1. Fasteners shall be ASTM F 3125 Grade A325 Type 1. Fasteners shall be hot dip galvanized in metallized areas. Bolts 7/8 in. diameter, holes 15/16 in. diameter, unless otherwise noted. See Special Provision for "Metallizing of Structural Steel."

2. Calculated weight of Structural Steel = 486,640 lbs (Grade 50)
   = 37,080 lbs (Grade 36)

3. All structural steel shall be metallized. See Special Provision of "Metallizing of Structural Steel".

4. No field welding is permitted except as specified in the contract documents.

5. Reinforcement bars designated (E) shall be epoxy coated.

6. Slipforming of the parapets is not allowed.

7. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

8. Plan dimensions and details relative to the existing structure have been taken from 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 shall be paid for the quantity actually furnished at the unit price bid for the work.

9. Film forming concrete sealer shall be applied on horizontal surfaces and penetrating concrete sealer on vertical surfaces. Concrete Sealer shall be applied to the new Abutment beam seats, piers and wingwalls prior to setting bearing or structural steel.

10. The finishing machine rails shall be placed on the top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between beams at all tie locations in each bay for the full width of the deck pour.

11. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

12. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

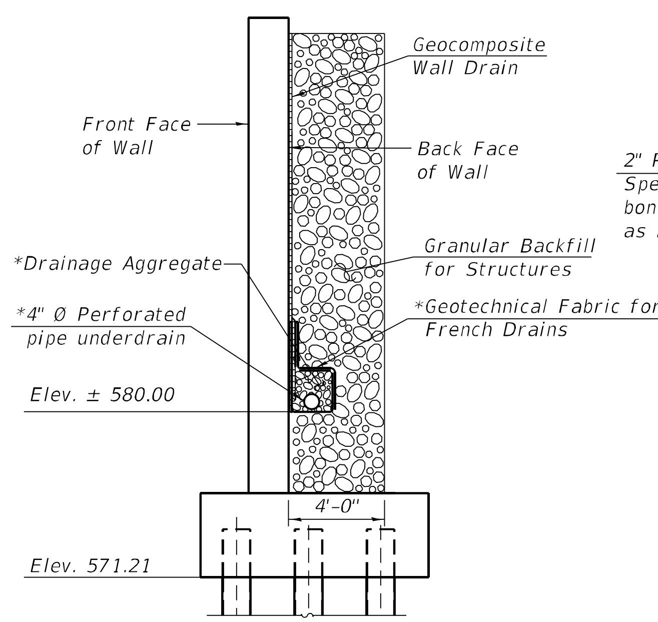
DESCRIPTION	UNIT	SP	SUB	SUPER	TOTAL
REMOVAL OF EXISTING SUPERSTRUCTURES	EACH			1	1
CONCRETE REMOVAL	CU YD		1,246.9		1,246.9
PROTECTIVE SHIELD	SQ YD			1,898	1,898
STRUCTURE EXCAVATION	CU YD		1,455		1,455
CONCRETE STRUCTURES	CU YD		862.1		862.1
CONCRETE SUPERSTRUCTURE	CU YD			652.5	652.5
BRIDGE DECK GROOVING	SQ YD			1,411	1,411
PROTECTIVE COAT	SQ YD			2,623	2,623
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM			1	1
STUD SHEAR CONNECTORS	EACH			13,216	13,216
REINFORCEMENT BARS, EPOXY COATED	POUND		98,510	163,880	262,390
BRIDGE FENCE RAILING, CURVED	FOOT			716	716
FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT		6,496		6,496
DRIVING PILES	FOOT		6,264		6,264
TEST PILE METAL SHELLS	EACH		2		2
PILE SHOES	EACH		116		116
NAME PLATES	EACH			1	1
PREFORMED JOINT STRIP SEAL	FOOT			126	126
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH			24	24
ANCHOR BOLTS, 1"	EACH			64	64
TEMPORARY SOIL RETENTION SYSTEM	SQ FT		8,391		8,391
GRANULAR BACKFILL FOR STRUCTURES	CU YD		754		754
CONCRETE SEALER	SQ FT		7,213		7,214
GEOCOMPOSITE WALL DRAIN	SQ YD		642		642
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT		292		292
CONCRETE WEARING SURFACE, 5"	SQ YD	*		416	416
PRECAST BRIDGE APPROACH SLAB	SQ FT	*		3,500	3,500
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	*	448		448
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	*	17		17

STATION 102+85.62
RE-BUILT 20 - - BY
STATE OF ILLINOIS
F.A.I. RTE. 290
SEC. 2021-120-BR
LOADING HL-93
STR. NO. 016-2079

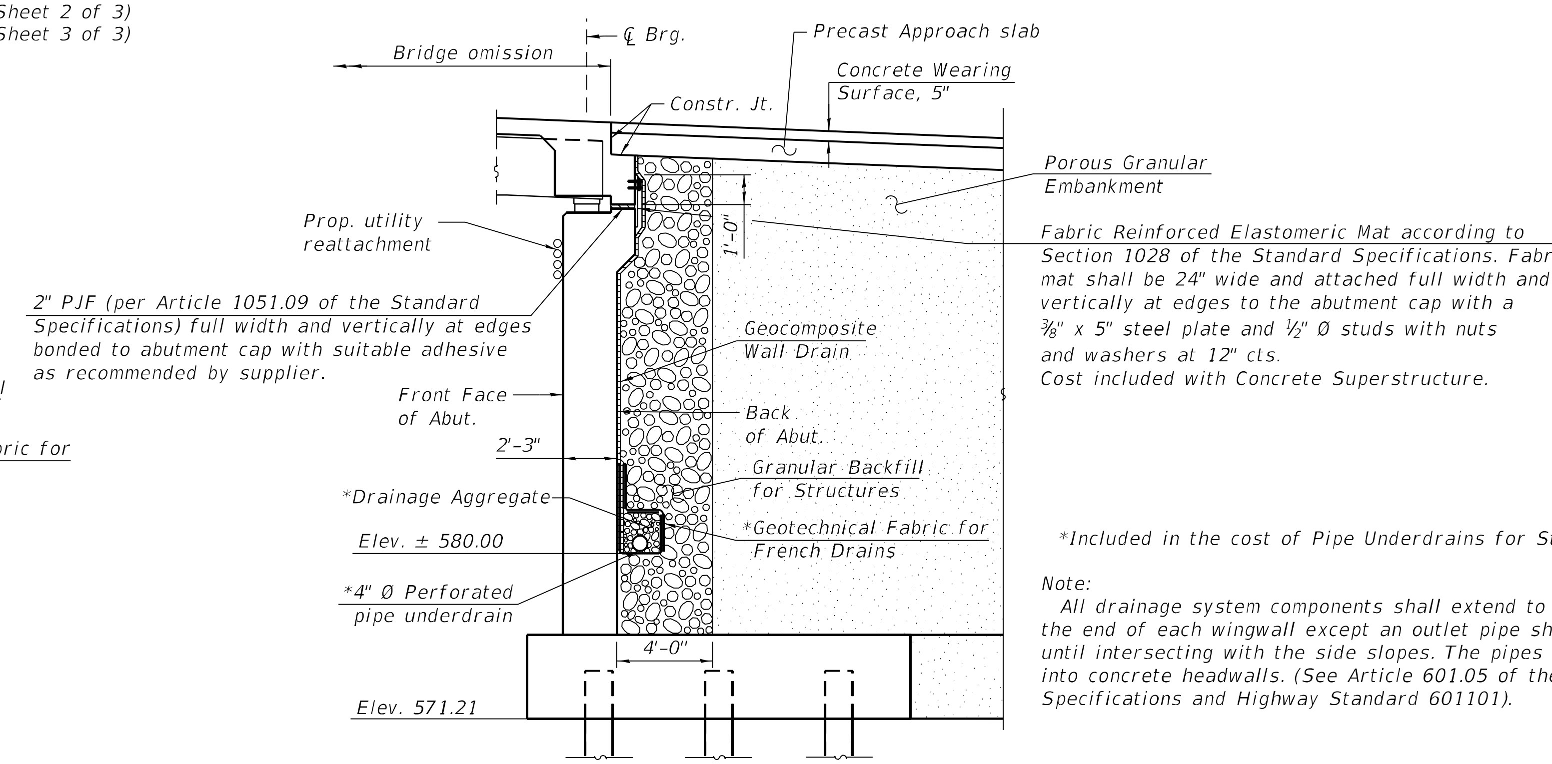
NAME PLATE

See Std. 515001

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



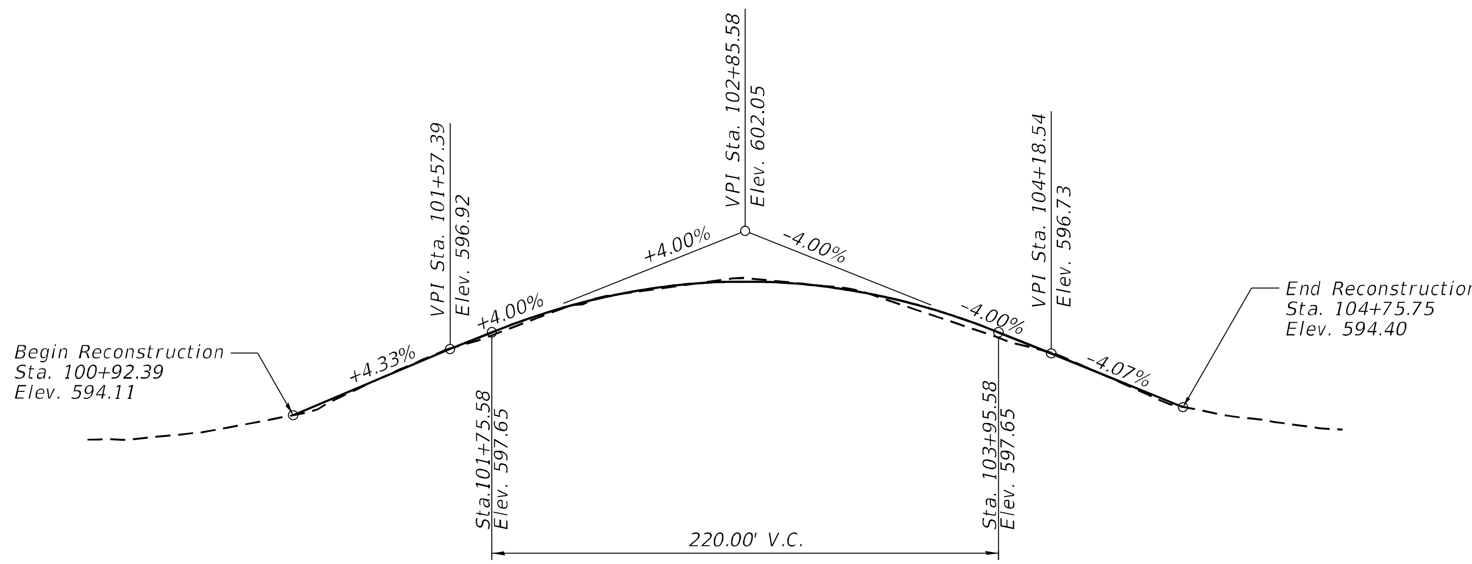
SECTION THRU WINGWALL



SECTION THRU SEMI-INTEGRAL ABUTMENT

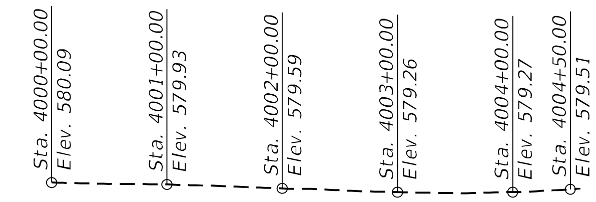
*Included in the cost of Pipe Underdrains for Structures.

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



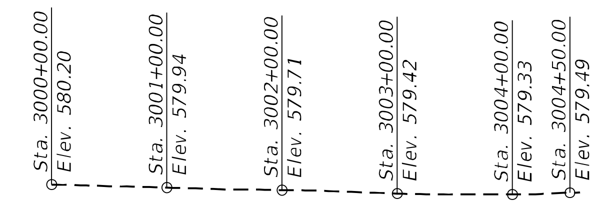
PROPOSED PROFILE GRADE

(Along ℄ Leavitt St)



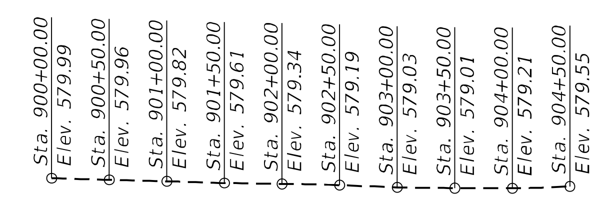
EXISTING PROFILE GRADE

(Top of Rail Along CTA WB Tracks)



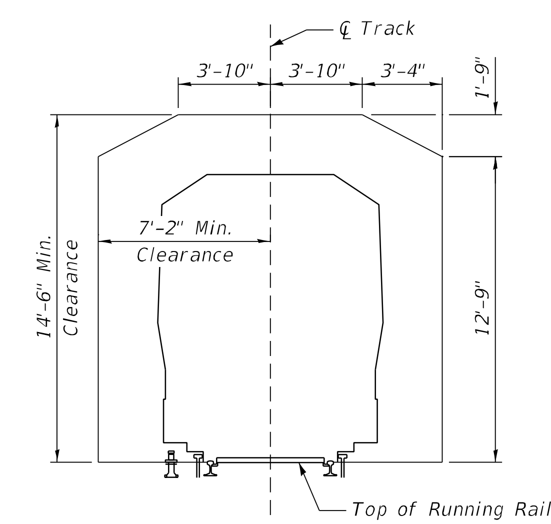
EXISTING PROFILE GRADE

(Top of Rail Along CTA EB Tracks)

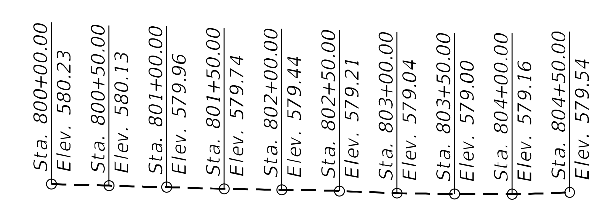


EXISTING PROFILE GRADE

(Along ℄ WB I-290)



CTA TRAIN CLEARANCE DIAGRAM



EXISTING PROFILE GRADE

(Along ℄ EB I-290)

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PROFILE GRADES
STRUCTURE NO. 016-2079

SHEET S-03 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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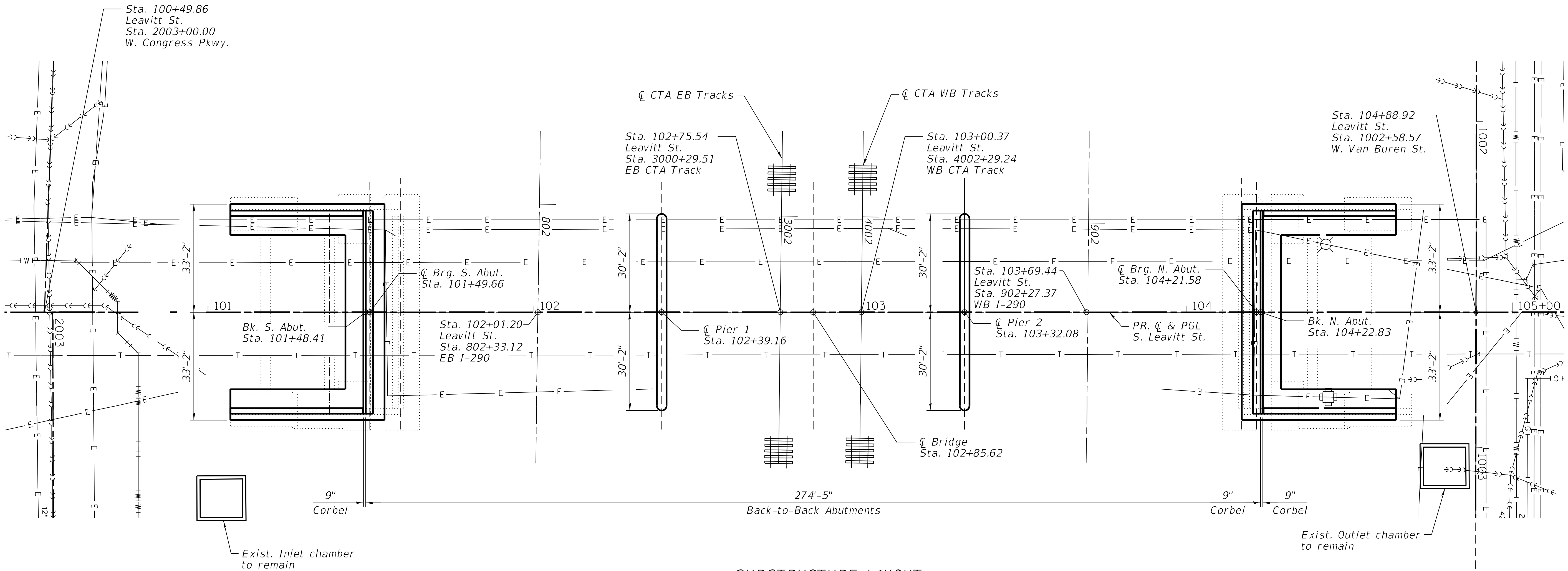

SUBSTRUCTURE LAYOUT

LEGEND

- E — Existing Electrical
- T — Existing Underground Telephone Line
- G — Existing Underground Gas Line
- >> — Existing Underground Combined Sewer
- W — Existing Underground Water Line
- Existing lightpole
- Existing traffic signal

NOTES:

1. For removal of existing superstructure, see sheets S-06.
2. For removal of existing abutments, see sheets S-07.
3. For existing approach slabs removal quantities, see Roadway Plans.
4. See Roadway and Lighting Plans for additional information.

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SUBSTRUCTURE LAYOUT
STRUCTURE NO. 016-2079
SHEET S-04 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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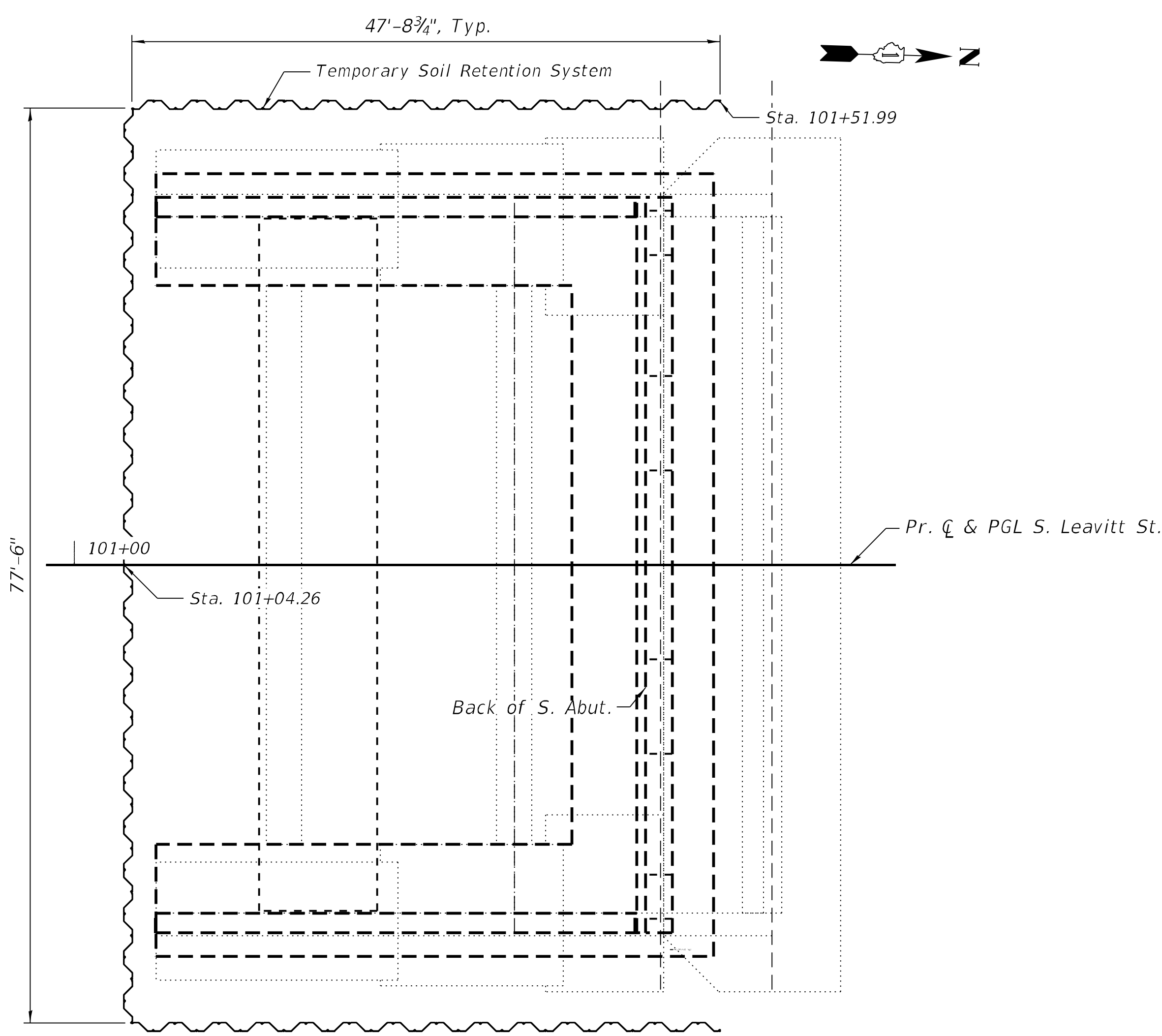
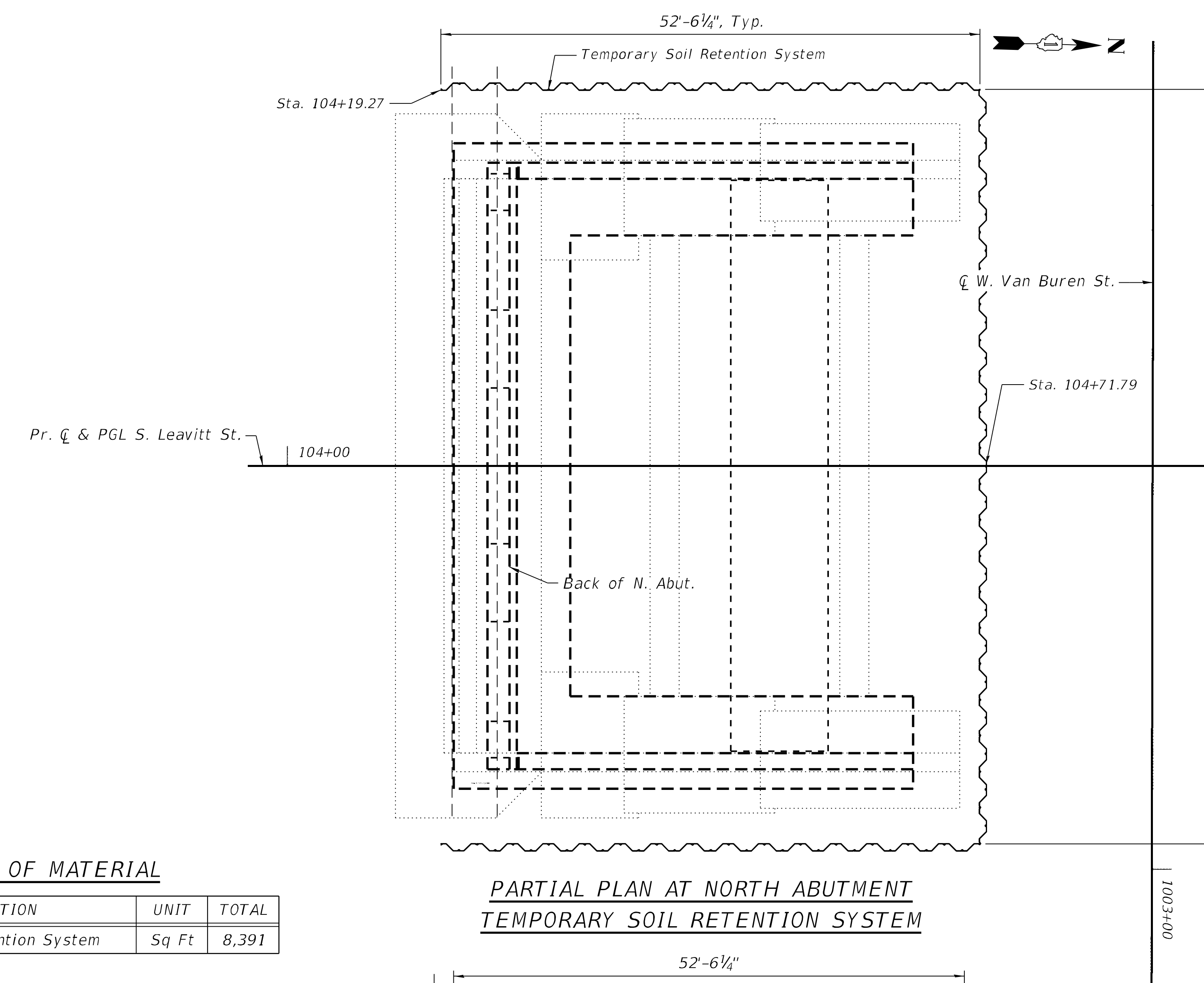


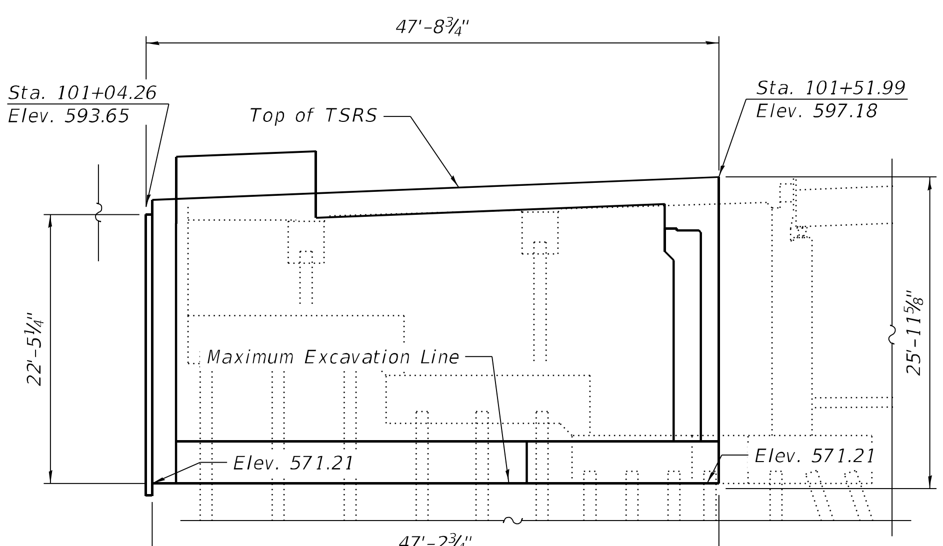
PARTIAL PLAN AT SOUTH ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM



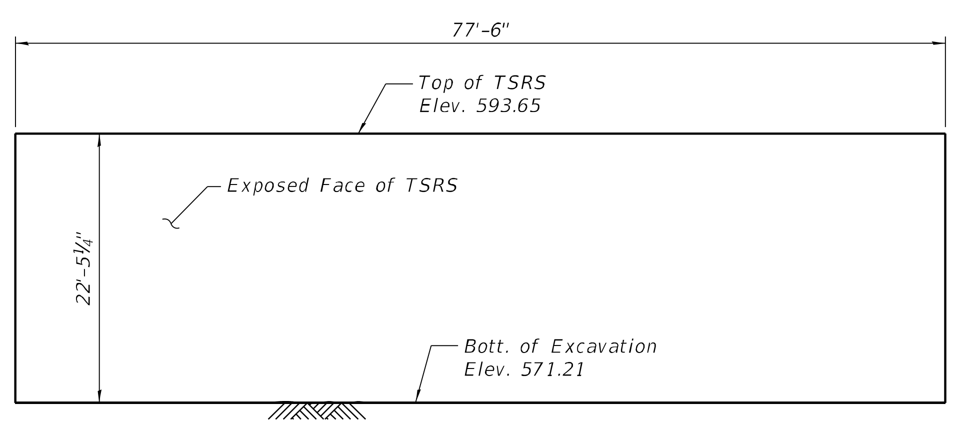
PARTIAL PLAN AT NORTH ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM

BILL OF MATERIAL

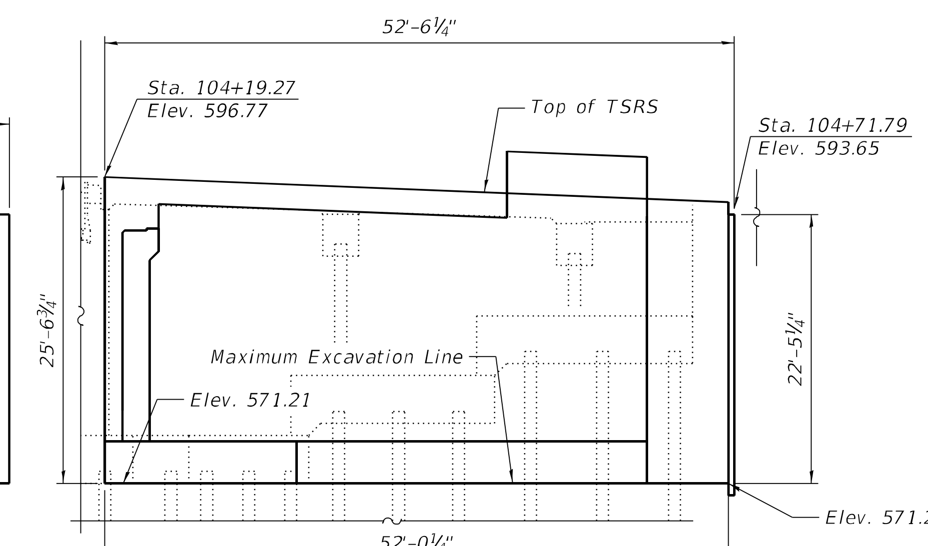
DESCRIPTION	UNIT	TOTAL
Temporary Soil Retention System	Sq Ft	8,391



SOUTH ABUTMENT TEMPORARY RETENTION ELEVATION
(Looking West, East Elevation Similar)



BACK TEMPORARY RETENTION ELEVATION
(Looking South, North Elevation Similar)



NORTH ABUTMENT TEMPORARY RETENTION SYSTEM
(Looking West, East Elevation Similar)

NOTE:
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.

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DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEMS
STRUCTURE NO. 016-2079

SHEET S-05 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	98
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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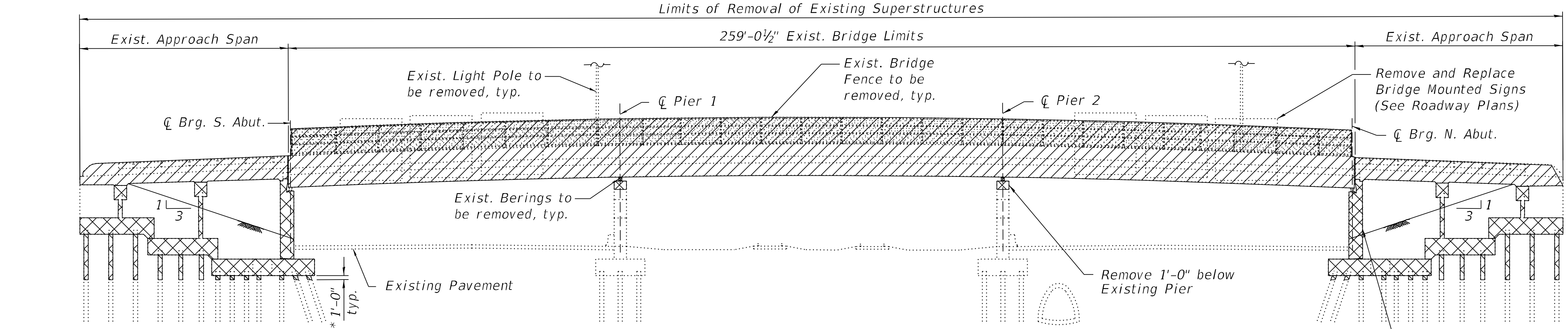
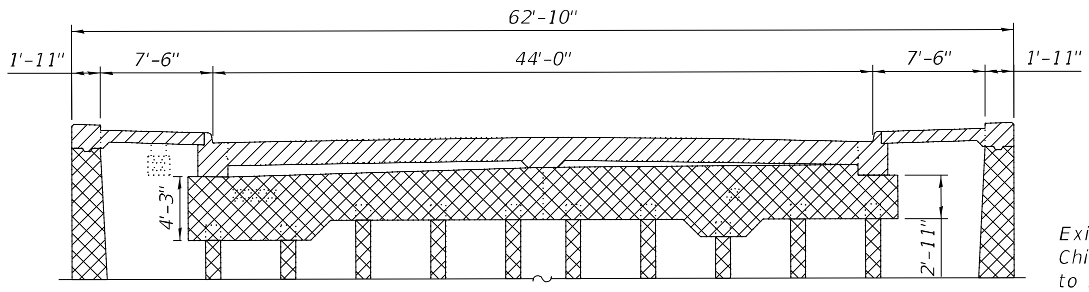
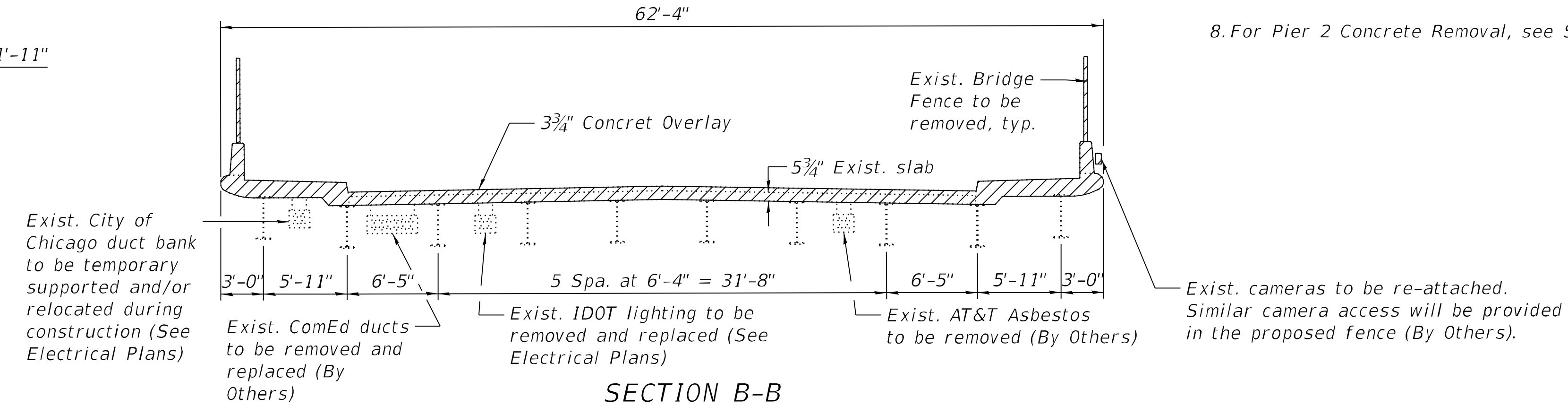


* Existing concrete piles to be removed to 1'-0" below proposed grade or proposed bottom of footing elevation. Cost included in Concrete Removal.

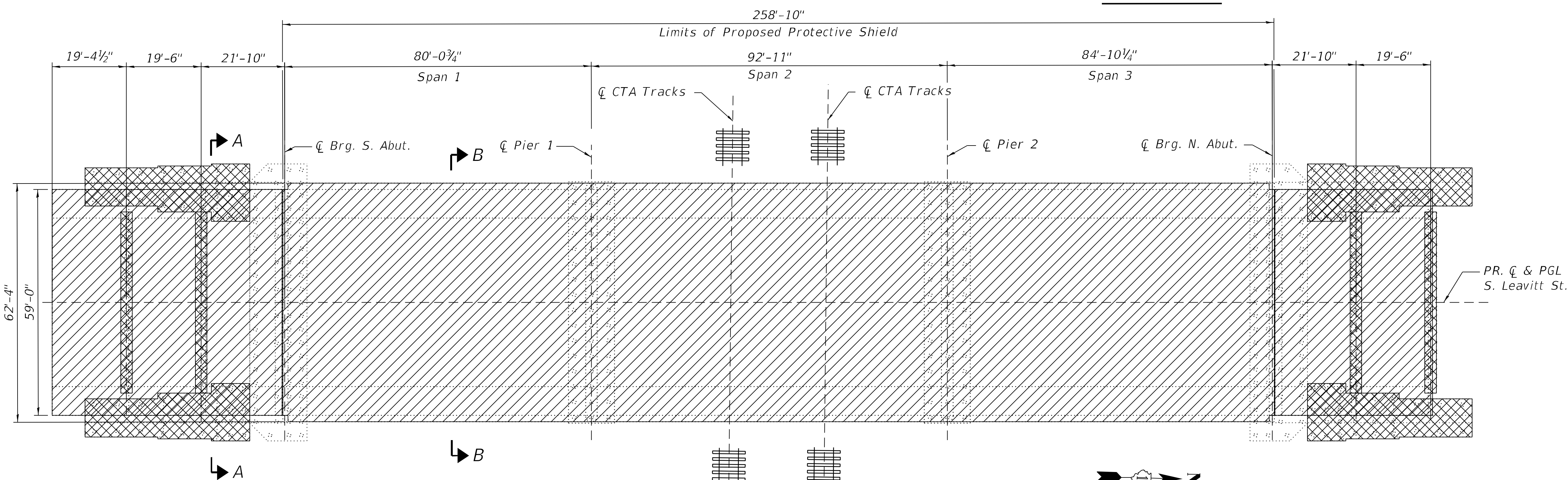
ELEVATION



SECTION A-A



SECTION B-B



PLAN

NOTES:

1. Existing Utilities and underlighting between girders shall be relocated to provide uninterrupted service during construction (by others). Utilities to be incorporated into new structure. See Electrical Plans.
2. The CONTRACTOR is responsible to protect the CTA tracks from falling objects and debris during removal of the existing structure.
3. Remove existing Bridge Fence and Parapet. Bridge Fence Railing and Parapet removal cost included with Removal of Existing Superstructures.
4. For existing approach slab, sidewalk, curb an gutter, and pavement removal quantiites, see Roadway plans.
5. For Temporary Soil Retention System limits, see Sheet S-05.
6. For Abutments and wingwalls Concrete Removal, see Sheet S-07.
7. For Pier 1 Concrete Removal, see Sheet S-40.
8. For Pier 2 Concrete Removal, see Sheet S-42.

LEGEND

- Removal of Exist. Superstructures
- Concrete Removal

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DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN, ELEVATION, AND SECTIONS
STRUCTURE NO. 016-2079
SHEET S-06 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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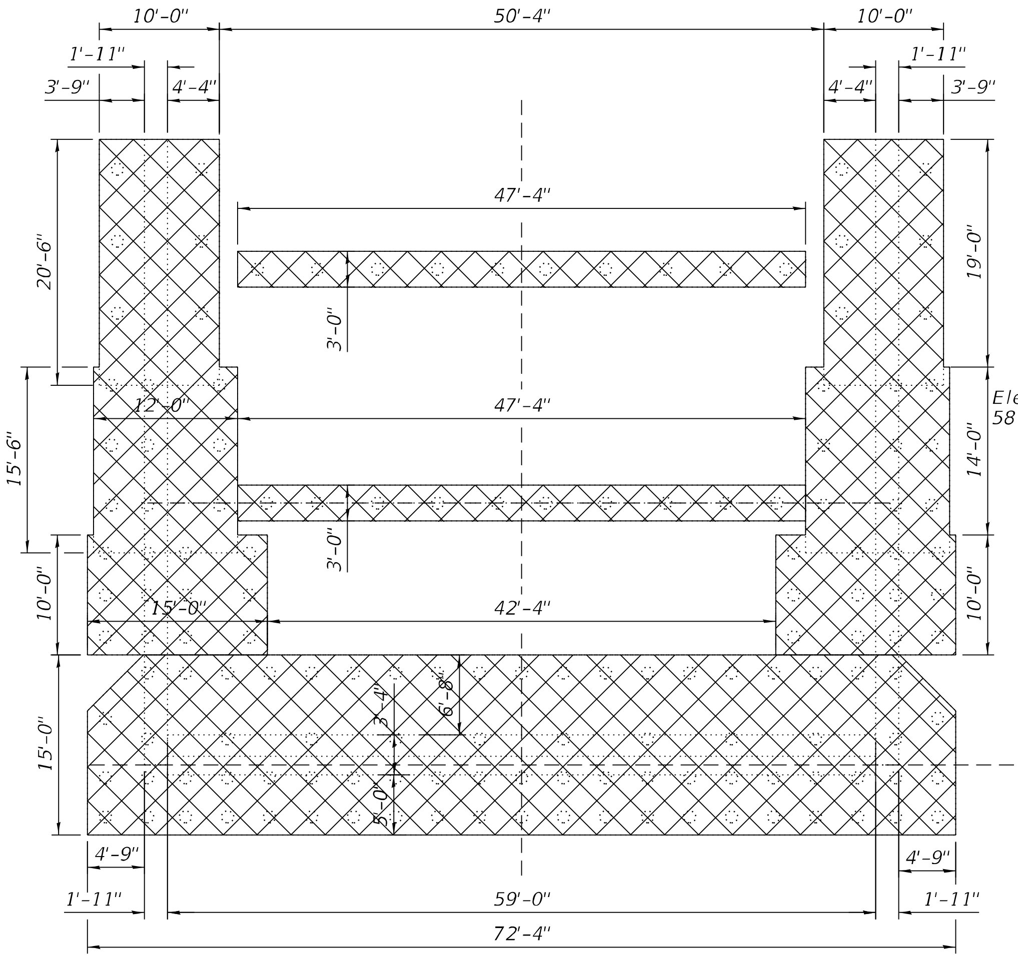
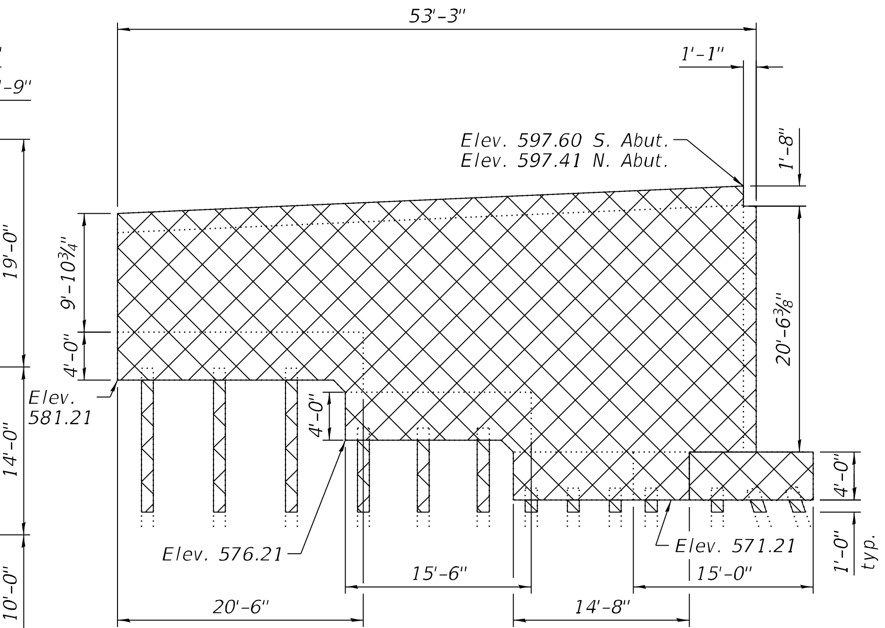
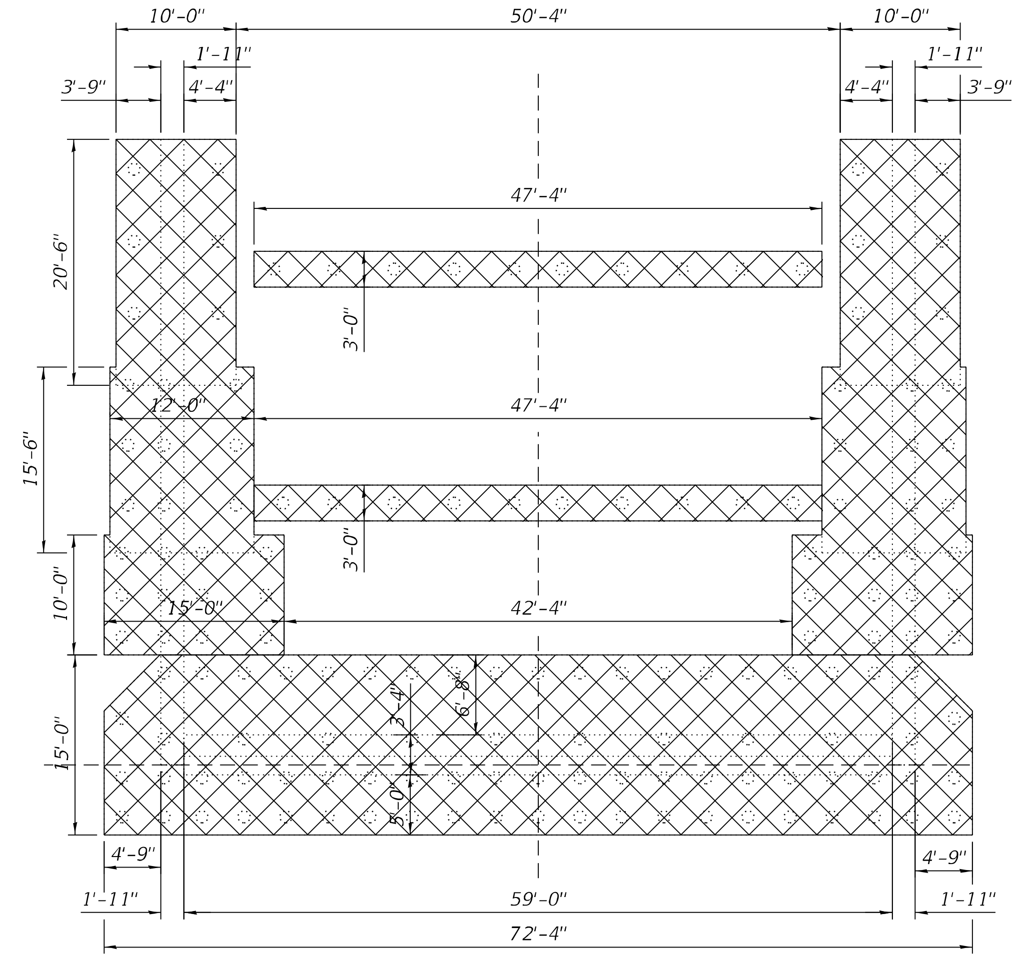


SOUTH ABUTMENT PLAN REMOVAL



WINGWALL REMOVAL

(SE/NW wingwall elevation shown. SW/NE wingwall similar opposite hand.)



NORTH ABUTMENT PLAN REMOVAL

* SOUTH ABUT. T/BEAM SEAT

Girder	Elev.
1	592.12
2	591.66
3	591.81
4	591.93
5	592.00
6	592.00
7	591.93
8	591.81
9	591.66
10	592.12

* NORTH ABUT. T/BEAM SEAT

Girder	Elev.
10	591.93
9	591.47
8	591.62
7	591.74
6	591.81
5	591.81
4	591.74
3	591.62
2	591.47
1	591.93

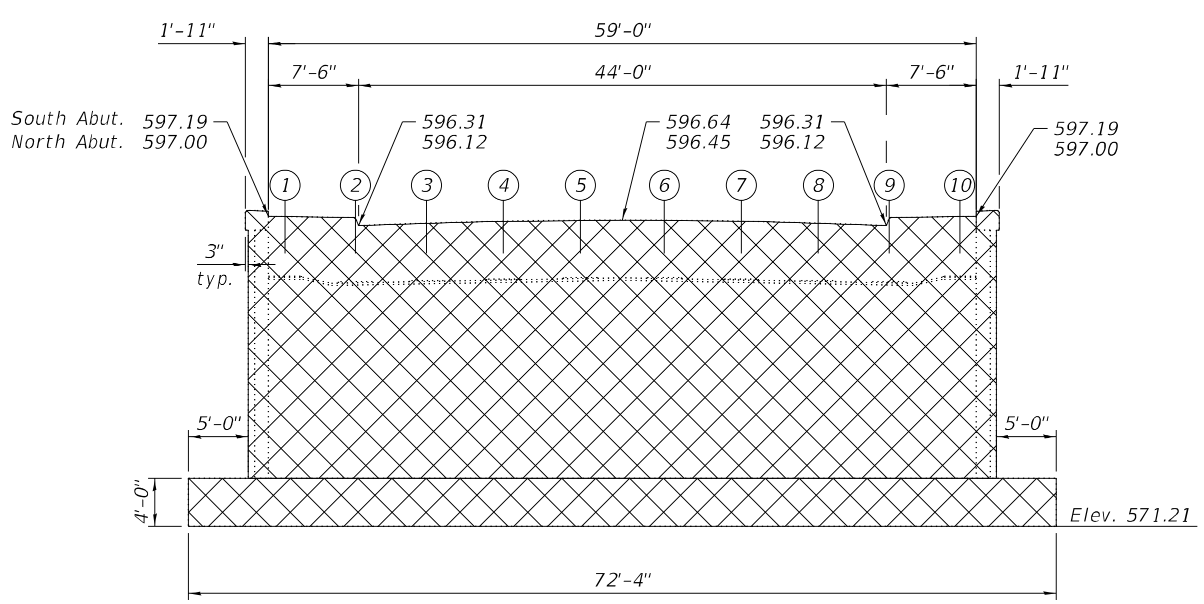
* Elevations shown are to top of existing concrete bearing pads.

N

N

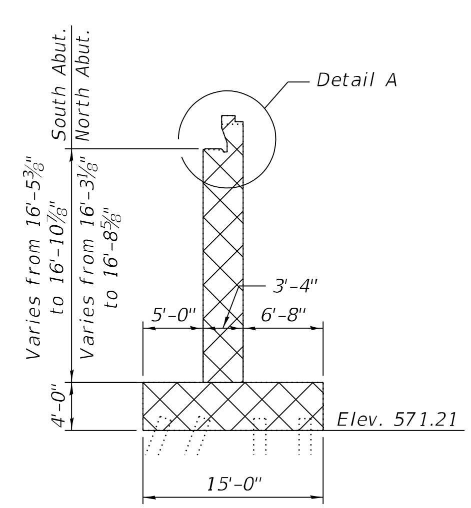
NOTE:

1. The cost for removal of exist. concrete piles to 1'-0" below proposed bottom of footing elevation is included in Concrete Removal.

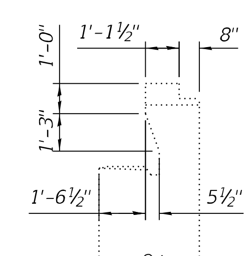


ABUTMENT ELEVATION REMOVAL

(South Abutment elevation shown. North Abutment elevation similar opposite hand.)



SECTION THRU ABUTMENT



DETAIL A

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	CU YD	1,236.7
Structure Excavation	CU YD	1,455

LEGEND

Concrete Removal

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. ABUTMENTS REMOVAL PLANS, SECTIONS AND DETAILS
STRUCTURE NO. 016–2079

SHEET S-07 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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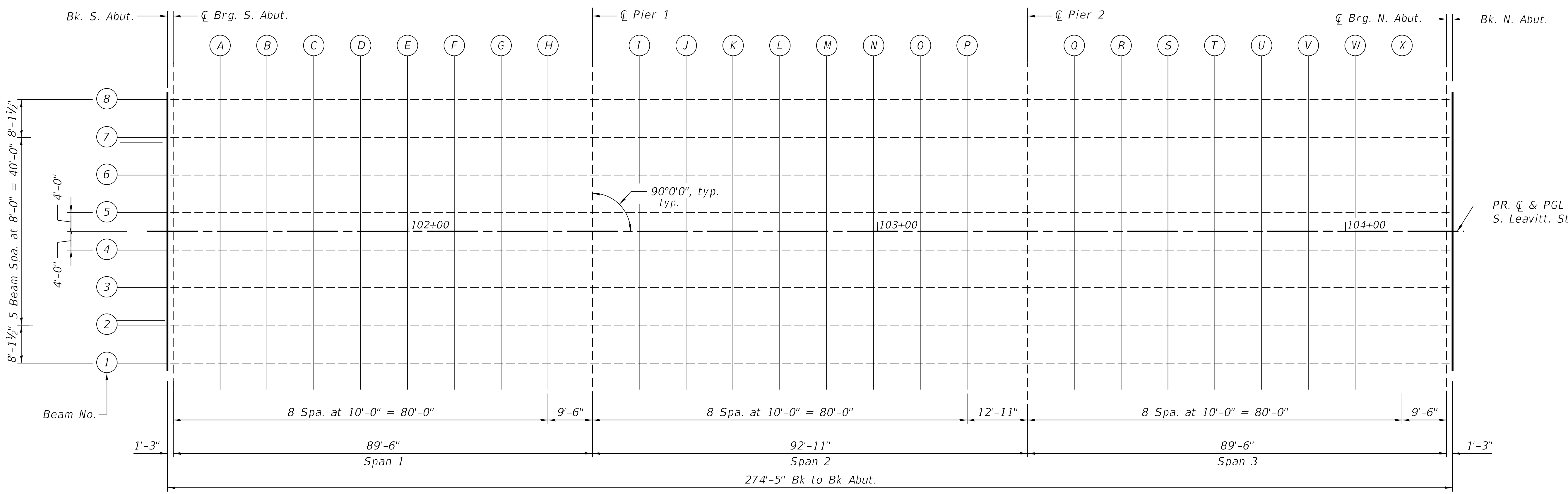
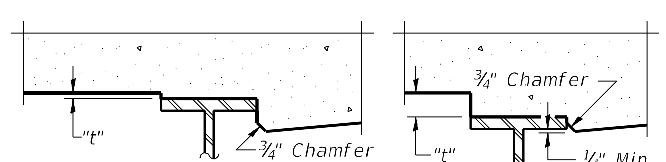
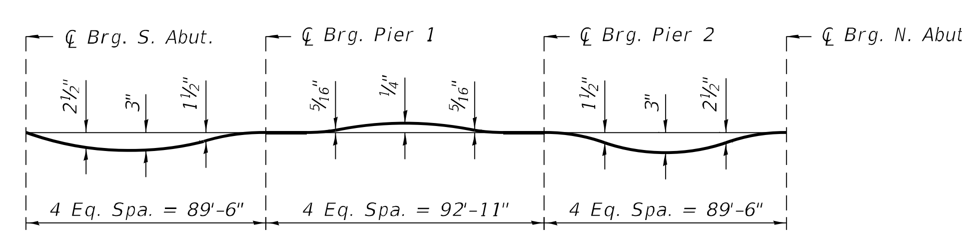


PLAN



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on sheets S-09 thru S-12, minus the initial slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets S-09 thru S-12.

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PLOT DATE = 2/13/2025	DATE - 2/13/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS LAYOUT
STRUCTURE NO. 016-2079

SHEET S-08 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	101
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

2/13/2025 9:29:24 AM

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	28.13 Rt.	597.06	597.06
CL Brg. S. Abut	101+49.66	28.13 Rt.	597.12	597.12
A	101+59.66	28.13 Rt.	597.54	597.65
B	101+69.66	28.13 Rt.	597.95	598.13
C	101+79.66	28.13 Rt.	598.34	598.58
D	101+89.66	28.13 Rt.	598.71	598.96
E	101+99.66	28.13 Rt.	599.04	599.27
F	102+09.66	28.13 Rt.	599.34	599.51
G	102+19.66	28.13 Rt.	599.59	599.71
H	102+29.66	28.13 Rt.	599.81	599.86
CL Pier 1	102+39.16	28.13 Rt.	599.99	599.99
I	102+49.16	28.13 Rt.	600.14	600.12
J	102+59.16	28.13 Rt.	600.26	600.23
K	102+69.16	28.13 Rt.	600.33	600.31
L	102+79.16	28.13 Rt.	600.38	600.36
M	102+89.16	28.13 Rt.	600.38	600.36
N	102+99.16	28.13 Rt.	600.35	600.33
O	103+09.16	28.13 Rt.	600.28	600.26
P	103+19.16	28.13 Rt.	600.18	600.15
CL Pier 2	103+32.08	28.13 Rt.	599.99	599.99
Q	103+42.08	28.13 Rt.	599.80	599.85
R	103+52.08	28.13 Rt.	599.58	599.70
S	103+62.08	28.13 Rt.	599.32	599.50
T	103+72.08	28.13 Rt.	599.02	599.26
U	103+82.08	28.13 Rt.	598.69	598.94
V	103+92.08	28.13 Rt.	598.32	598.56
W	104+02.08	28.13 Rt.	597.92	598.10
X	104+12.08	28.13 Rt.	597.52	597.62
CL Brg. N. Abut	104+21.58	28.13 Rt.	597.14	597.14
Bk. N. Abut	104+22.83	28.13 Rt.	597.09	597.09

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	20 Rt.	596.93	596.93
CL Brg. S. Abut	101+49.66	20 Rt.	596.98	596.98
A	101+59.66	20 Rt.	597.41	597.51
B	101+69.66	20 Rt.	597.81	598.00
C	101+79.66	20 Rt.	598.21	598.45
D	101+89.66	20 Rt.	598.58	598.83
E	101+99.66	20 Rt.	598.91	599.14
F	102+09.66	20 Rt.	599.20	599.38
G	102+19.66	20 Rt.	599.46	599.57
H	102+29.66	20 Rt.	599.68	599.68
CL Pier 1	102+39.16	20 Rt.	599.86	599.86
I	102+49.16	20 Rt.	600.01	599.98
J	102+59.16	20 Rt.	600.12	600.09
K	102+69.16	20 Rt.	600.20	600.18
L	102+79.16	20 Rt.	600.24	600.22
M	102+89.16	20 Rt.	600.25	600.23
N	102+99.16	20 Rt.	600.21	600.19
O	103+09.16	20 Rt.	600.15	600.12
P	103+19.16	20 Rt.	600.04	600.04
CL Pier 2	103+32.08	20 Rt.	599.86	599.86
Q	103+42.08	20 Rt.	599.67	599.72
R	103+52.08	20 Rt.	599.44	599.56
S	103+62.08	20 Rt.	599.18	599.37
T	103+72.08	20 Rt.	598.89	599.12
U	103+82.08	20 Rt.	598.56	598.81
V	103+92.08	20 Rt.	598.19	598.42
W	104+02.08	20 Rt.	597.79	597.97
X	104+12.08	20 Rt.	597.39	597.48
CL Brg. N. Abut	104+21.58	20 Rt.	597.00	597.00
Bk. N. Abut	104+22.83	20 Rt.	596.95	596.95

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS TABLES 1
STRUCTURE NO. 016-2079

SHEET S-09 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	102
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

2/13/2025 9:29:25 AM

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	12 Rt.	596.35	596.35
CL Brg. S. Abut	101+49.66	12 Rt.	596.41	596.41
A	101+59.66	12 Rt.	596.83	596.93
B	101+69.66	12 Rt.	597.23	597.42
C	101+79.66	12 Rt.	597.63	597.87
D	101+89.66	12 Rt.	598.00	598.25
E	101+99.66	12 Rt.	598.33	598.56
F	102+09.66	12 Rt.	598.62	598.80
G	102+19.66	12 Rt.	598.88	598.99
H	102+29.66	12 Rt.	599.10	599.10
CL Pier 1	102+39.16	12 Rt.	599.28	599.28
I	102+49.16	12 Rt.	599.43	599.41
J	102+59.16	12 Rt.	599.54	599.52
K	102+69.16	12 Rt.	599.62	599.60
L	102+79.16	12 Rt.	599.66	599.64
M	102+89.16	12 Rt.	599.67	599.65
N	102+99.16	12 Rt.	599.64	599.61
O	103+09.16	12 Rt.	599.57	599.54
P	103+19.16	12 Rt.	599.46	599.46
CL Pier 2	103+32.08	12 Rt.	599.28	599.28
Q	103+42.08	12 Rt.	599.09	599.14
R	103+52.08	12 Rt.	598.87	598.98
S	103+62.08	12 Rt.	598.61	598.79
T	103+72.08	12 Rt.	598.31	598.54
U	103+82.08	12 Rt.	597.98	598.23
V	103+92.08	12 Rt.	597.61	597.84
W	104+02.08	12 Rt.	597.21	597.39
X	104+12.08	12 Rt.	596.81	596.91
CL Brg. N. Abut	104+21.58	12 Rt.	596.43	596.43
Bk. N. Abut	104+22.83	12 Rt.	596.38	596.38

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	4 Rt.	596.47	596.47
CL Brg. S. Abut	101+49.66	4 Rt.	596.53	596.53
A	101+59.66	4 Rt.	596.95	597.05
B	101+69.66	4 Rt.	597.35	597.54
C	101+79.66	4 Rt.	597.75	597.99
D	101+89.66	4 Rt.	598.12	598.37
E	101+99.66	4 Rt.	598.45	598.68
F	102+09.66	4 Rt.	598.74	598.92
G	102+19.66	4 Rt.	599.00	599.11
H	102+29.66	4 Rt.	599.22	599.22
CL Pier 1	102+39.16	4 Rt.	599.40	599.40
I	102+49.16	4 Rt.	599.55	599.53
J	102+59.16	4 Rt.	599.66	599.64
K	102+69.16	4 Rt.	599.74	599.72
L	102+79.16	4 Rt.	599.78	599.76
M	102+89.16	4 Rt.	599.79	599.77
N	102+99.16	4 Rt.	599.76	599.73
O	103+09.16	4 Rt.	599.69	599.66
P	103+19.16	4 Rt.	599.58	599.58
CL Pier 2	103+32.08	4 Rt.	599.40	599.40
Q	103+42.08	4 Rt.	599.21	599.26
R	103+52.08	4 Rt.	598.99	599.10
S	103+62.08	4 Rt.	598.73	598.91
T	103+72.08	4 Rt.	598.43	598.66
U	103+82.08	4 Rt.	598.10	598.35
V	103+92.08	4 Rt.	597.73	597.96
W	104+02.08	4 Rt.	597.33	597.51
X	104+12.08	4 Rt.	596.93	597.03
CL Brg. N. Abut	104+21.58	4 Rt.	596.55	596.55
Bk. N. Abut	104+22.83	4 Rt.	596.50	596.50

PR. ℄ & PGL S. Leavitt St.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	0 Rt.	596.53	596.53
CL Brg. S. Abut	101+49.66	0 Rt.	596.59	596.59
A	101+59.66	0 Rt.	597.01	597.11
B	101+69.66	0 Rt.	597.41	597.60
C	101+79.66	0 Rt.	597.81	598.05
D	101+89.66	0 Rt.	598.18	598.43
E	101+99.66	0 Rt.	598.51	598.74
F	102+09.66	0 Rt.	598.80	598.98
G	102+19.66	0 Rt.	599.06	599.17
H	102+29.66	0 Rt.	599.28	599.28
CL Pier 1	102+39.16	0 Rt.	599.46	599.46
I	102+49.16	0 Rt.	599.61	599.59
J	102+59.16	0 Rt.	599.72	599.70
K	102+69.16	0 Rt.	599.80	599.78
L	102+79.16	0 Rt.	599.84	599.82
M	102+89.16	0 Rt.	599.85	599.83
N	102+99.16	0 Rt.	599.82	599.79
O	103+09.16	0 Rt.	599.75	599.72
P	103+19.16	0 Rt.	599.64	599.64
CL Pier 2	103+32.08	0 Rt.	599.46	599.46
Q	103+42.08	0 Rt.	599.27	599.32
R	103+52.08	0 Rt.	599.05	599.16
S	103+62.08	0 Rt.	598.79	598.97
T	103+72.08	0 Rt.	598.49	598.72
U	103+82.08	0 Rt.	598.16	598.41
V	103+92.08	0 Rt.	597.79	598.02
W	104+02.08	0 Rt.	597.39	597.57
X	104+12.08	0 Rt.	596.99	597.09
CL Brg. N. Abut	104+21.58	0 Rt.	596.61	596.61
Bk. N. Abut	104+22.83	0 Rt.	596.56	596.56

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DATE - 2/13/2025

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS TABLES 2
STRUCTURE NO. 016–2079

SHEET S-10 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	103

CONTRACT NO. 62P43
ILLINOIS | FED. AID PROJECT

2/13/2025 9:29:25 AM

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	4 Lt.	596.47	596.47
CL Brg. S. Abut	101+49.66	4 Lt.	596.53	596.53
A	101+59.66	4 Lt.	596.95	597.05
B	101+69.66	4 Lt.	597.35	597.54
C	101+79.66	4 Lt.	597.75	597.99
D	101+89.66	4 Lt.	598.12	598.37
E	101+99.66	4 Lt.	598.45	598.68
F	102+09.66	4 Lt.	598.74	598.92
G	102+19.66	4 Lt.	599.00	599.11
H	102+29.66	4 Lt.	599.22	599.22
CL Pier 1	102+39.16	4 Lt.	599.40	599.40
I	102+49.16	4 Lt.	599.55	599.53
J	102+59.16	4 Lt.	599.66	599.64
K	102+69.16	4 Lt.	599.74	599.72
L	102+79.16	4 Lt.	599.78	599.76
M	102+89.16	4 Lt.	599.79	599.77
N	102+99.16	4 Lt.	599.76	599.73
O	103+09.16	4 Lt.	599.69	599.66
P	103+19.16	4 Lt.	599.58	599.58
CL Pier 2	103+32.08	4 Lt.	599.40	599.40
Q	103+42.08	4 Lt.	599.21	599.26
R	103+52.08	4 Lt.	598.99	599.10
S	103+62.08	4 Lt.	598.73	598.91
T	103+72.08	4 Lt.	598.43	598.66
U	103+82.08	4 Lt.	598.10	598.35
V	103+92.08	4 Lt.	597.73	597.96
W	104+02.08	4 Lt.	597.33	597.51
X	104+12.08	4 Lt.	596.93	597.03
CL Brg. N. Abut	104+21.58	4 Lt.	596.55	596.55
Bk. N. Abut	104+22.83	4 Lt.	596.50	596.50

BEAM 6

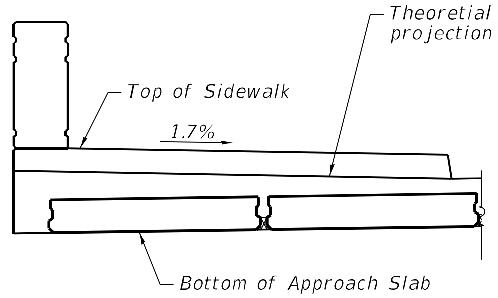
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	12 Lt.	596.35	596.35
CL Brg. S. Abut	101+49.66	12 Lt.	596.41	596.41
A	101+59.66	12 Lt.	596.83	596.93
B	101+69.66	12 Lt.	597.23	597.42
C	101+79.66	12 Lt.	597.63	597.87
D	101+89.66	12 Lt.	598.00	598.25
E	101+99.66	12 Lt.	598.33	598.56
F	102+09.66	12 Lt.	598.62	598.80
G	102+19.66	12 Lt.	598.88	598.99
H	102+29.66	12 Lt.	599.10	599.10
CL Pier 1	102+39.16	12 Lt.	599.28	599.28
I	102+49.16	12 Lt.	599.43	599.41
J	102+59.16	12 Lt.	599.54	599.52
K	102+69.16	12 Lt.	599.62	599.60
L	102+79.16	12 Lt.	599.66	599.64
M	102+89.16	12 Lt.	599.67	599.65
N	102+99.16	12 Lt.	599.64	599.61
O	103+09.16	12 Lt.	599.57	599.54
P	103+19.16	12 Lt.	599.46	599.46
CL Pier 2	103+32.08	12 Lt.	599.28	599.28
Q	103+42.08	12 Lt.	599.09	599.14
R	103+52.08	12 Lt.	598.87	598.98
S	103+62.08	12 Lt.	598.61	598.79
T	103+72.08	12 Lt.	598.31	598.54
U	103+82.08	12 Lt.	597.98	598.23
V	103+92.08	12 Lt.	597.61	597.84
W	104+02.08	12 Lt.	597.21	597.39
X	104+12.08	12 Lt.	596.81	596.91
CL Brg. N. Abut	104+21.58	12 Lt.	596.43	596.43
Bk. N. Abut	104+22.83	12 Lt.	596.38	596.38

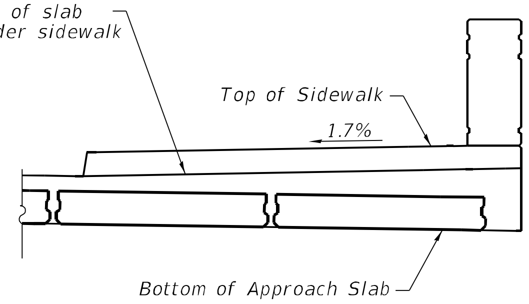
BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	20 Lt.	596.93	596.93
CL Brg. S. Abut	101+49.66	20 Lt.	596.98	596.98
A	101+59.66	20 Lt.	597.41	597.51
B	101+69.66	20 Lt.	597.81	598.00
C	101+79.66	20 Lt.	598.21	598.45
D	101+89.66	20 Lt.	598.58	598.83
E	101+99.66	20 Lt.	598.91	599.14
F	102+09.66	20 Lt.	599.20	599.38
G	102+19.66	20 Lt.	599.46	599.57
H	102+29.66	20 Lt.	599.68	599.68
CL Pier 1	102+39.16	20 Lt.	599.86	599.86
I	102+49.16	20 Lt.	600.01	599.98
J	102+59.16	20 Lt.	600.12	600.09
K	102+69.16	20 Lt.	600.20	600.18
L	102+79.16	20 Lt.	600.24	600.22
M	102+89.16	20 Lt.	600.25	600.23
N	102+99.16	20 Lt.	600.21	600.19
O	103+09.16	20 Lt.	600.15	600.12
P	103+19.16	20 Lt.	600.04	600.04
CL Pier 2	103+32.08	20 Lt.	599.86	599.86
Q	103+42.08	20 Lt.	599.67	599.72
R	103+52.08	20 Lt.	599.44	599.56
S	103+62.08	20 Lt.	599.18	599.37
T	103+72.08	20 Lt.	598.89	599.12
U	103+82.08	20 Lt.	598.56	598.81
V	103+92.08	20 Lt.	598.19	598.42
W	104+02.08	20 Lt.	597.79	597.97
X	104+12.08	20 Lt.	597.39	597.48
CL Brg. N. Abut	104+21.58	20 Lt.	597.00	597.00
Bk. N. Abut	104+22.83	20 Lt.	596.95	596.95

BEAM 8

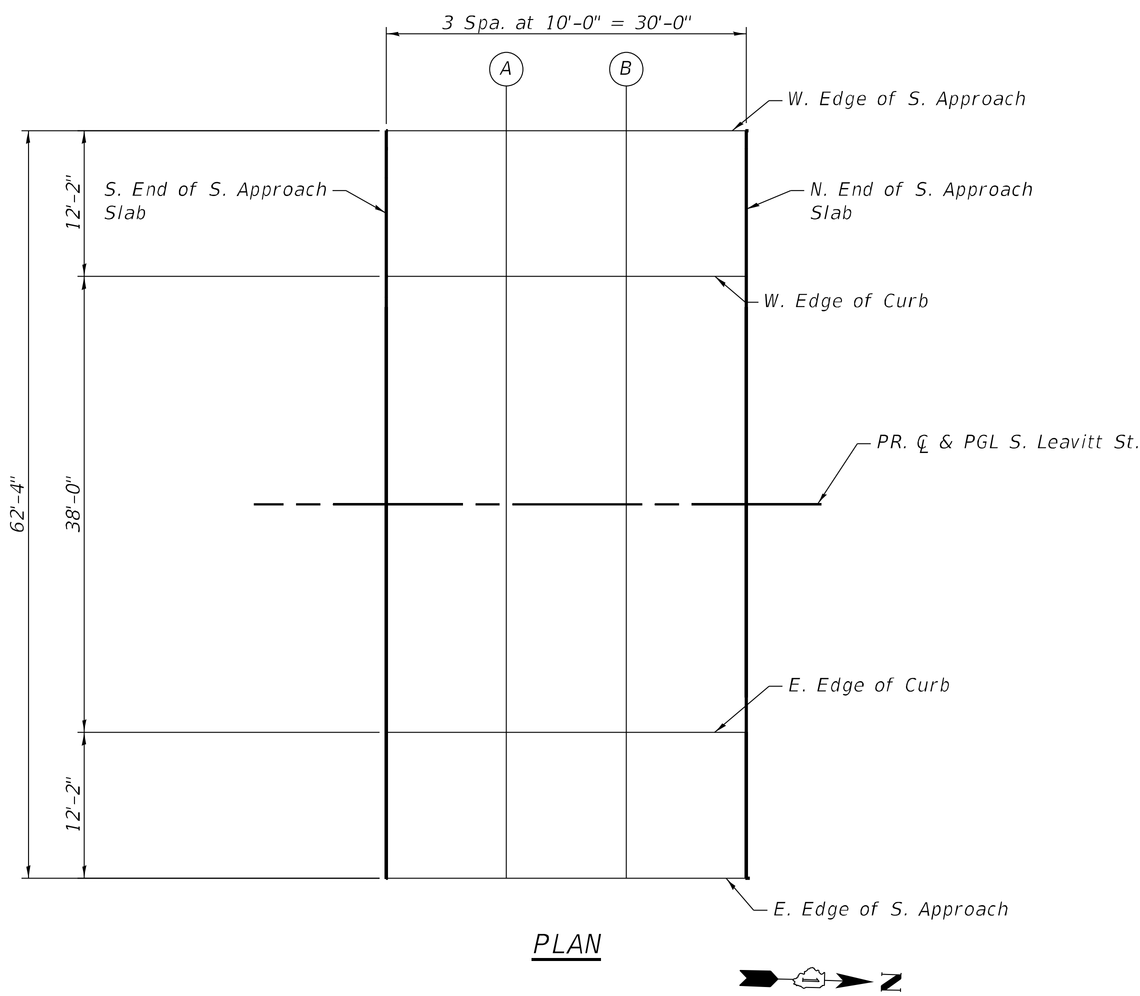
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut	101+48.41	28.13 Lt.	597.06	597.06
CL Brg. S. Abut	101+49.66	28.13 Lt.	597.12	597.12
A	101+59.66	28.13 Lt.	597.54	597.65
B	101+69.66	28.13 Lt.	597.95	598.13
C	101+79.66	28.13 Lt.	598.34	598.58
D	101+89.66	28.13 Lt.	598.71	598.96
E	101+99.66	28.13 Lt.	599.04	599.27
F	102+09.66	28.13 Lt.	599.34	599.51
G	102+19.66	28.13 Lt.	599.59	599.71
H	102+29.66	28.13 Lt.	599.81	599.81
CL Pier 1	102+39.16	28.13 Lt.	599.99	599.99
I	102+49.16	28.13 Lt.	600.14	600.12
J	102+59.16	28.13 Lt.	600.26	600.23
K	102+69.16	28.13 Lt.	600.33	600.31
L	102+79.16	28.13 Lt.	600.38	600.36
M	102+89.16	28.13 Lt.	600.38	600.36
N	102+99.16	28.13 Lt.	600.35	600.33
O	103+09.16	28.13 Lt.	600.28	600.26
P	103+19.16	28.13 Lt.	600.18	600.18
CL Pier 2	103+32.08	28.13 Lt.	599.99	599.99
Q	103+42.08	28.13 Lt.	599.80	599.85
R	103+52.08	28.13 Lt.	599.58	599.70
S	103+62.08	28.13 Lt.	599.32	599.50
T	103+72.08	28.13 Lt.	599.02	599.26
U	103+82.08	28.13 Lt.	598.69	598.94
V	103+92.08	28.13 Lt.	598.32	598.56
W	104+02.08	28.13 Lt.	597.92	598.10
X	104+12.08	28.13 Lt.	597.52	597.62
CL Brg. N. Abut	104+21.58	28.13 Lt.	597.14	597.14
Bk. N. Abut	104+22.83	28.13 Lt.	597.09	597.09





THEORETICAL LOCATION OF ELEVATION UNDER WEST SIDEWALK

THEORETICAL LOCATION OF ELEVATION UNDER EAST SIDEWALK



PLAN

WEST EDGE OF SOUTH APPROACH

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	101+18.66	31.17 Lt.	595.18
A	101+28.66	31.17 Lt.	595.61
B	101+38.66	31.17 Lt.	596.04
N. End of S. Approach	101+48.66	31.17 Lt.	596.48

WEST EDGE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	101+18.66	19 Lt.	594.96
A	101+28.66	19 Lt.	595.39
B	101+38.66	19 Lt.	595.82
N. End of S. Approach	101+48.66	19 Lt.	596.26

PR. ℄ & PGL S. LEAVITT ST.

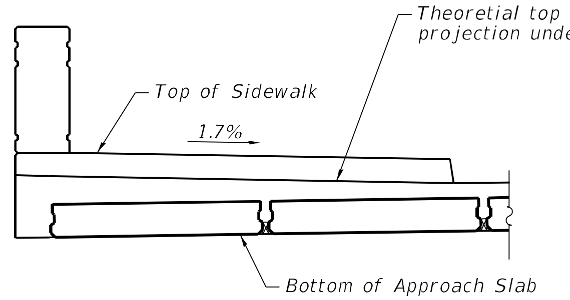
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	101+18.66	0 Rt.	595.24
A	101+28.66	0 Rt.	595.68
B	101+38.66	0 Rt.	596.11
N. End of S. Approach	101+48.66	0 Rt.	596.54

EAST EDGE OF CURB

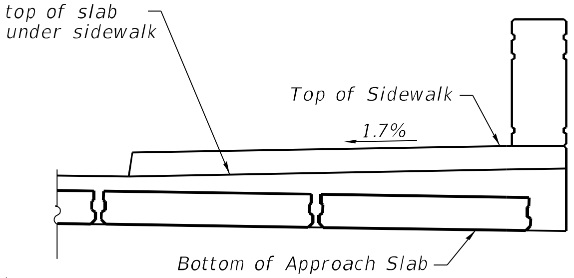
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	101+18.66	19 Rt.	594.96
A	101+28.66	19 Rt.	595.39
B	101+38.66	19 Rt.	595.82
N. End of S. Approach	101+48.66	19 Rt.	596.26

EAST EDGE OF SOUTH APPROACH

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Approach	101+18.66	31.17 Rt.	595.18
A	101+28.66	31.17 Rt.	595.61
B	101+38.66	31.17 Rt.	596.04
N. End of S. Approach	101+48.66	31.17 Rt.	596.48



THEORETICAL LOCATION OF ELEVATION UNDER WEST SIDEWALK



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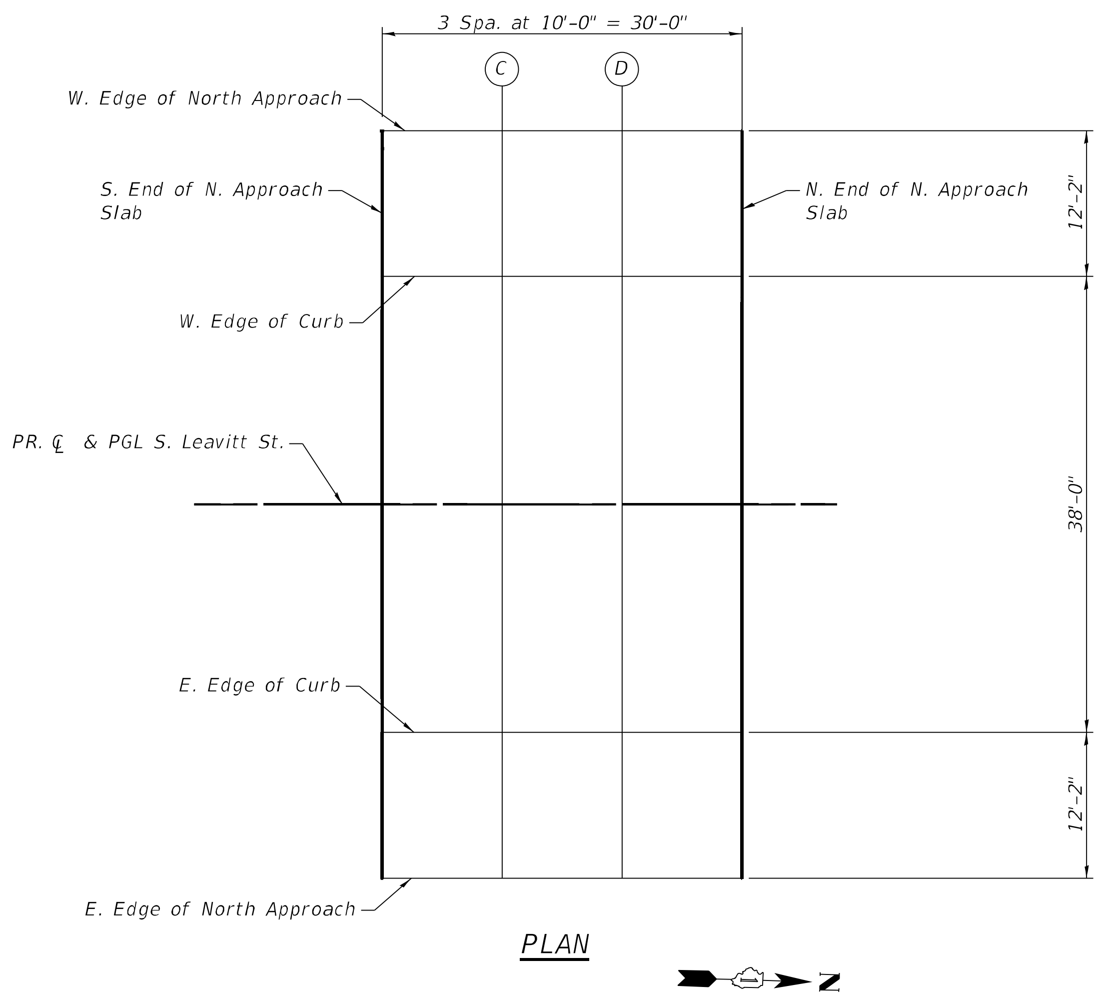

PLAN

WEST EDGE OF NORTH APPROACH

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach	104+22.58	31.17 Lt.	596.47
C	104+32.58	31.17 Lt.	596.07
D	104+42.58	31.17 Lt.	595.66
N. End of N. Approach	104+52.58	31.17 Lt.	595.25

WEST EDGE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach	104+22.58	19 Lt.	596.28
C	104+32.58	19 Lt.	595.87
D	104+42.58	19 Lt.	595.47
N. End of N. Approach	104+52.58	19 Lt.	595.06

PR. ℄ & PGL S. LEAVITT ST.

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach	104+22.58	0 Rt.	596.57
C	104+32.58	0 Rt.	596.16
D	104+42.58	0 Rt.	595.75
N. End of N. Approach	104+52.58	0 Rt.	595.34

EAST EDGE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach	104+22.58	19 Rt.	596.28
C	104+32.58	19 Rt.	595.87
D	104+42.58	19 Rt.	595.47
N. End of N. Approach	104+52.58	19 Rt.	595.06

EAST EDGE OF NORTH APPROACH

Location	Station	Offset	Theoretical Grade Elevations
S. End of N. Approach	104+22.58	31.17 Rt.	596.50
C	104+32.58	31.17 Rt.	596.09
D	104+42.58	31.17 Rt.	595.69
N. End of N. Approach	104+52.58	31.17 Rt.	595.28

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016–2079

SHEET S-14 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P43				
ILLINOIS FED. AID PROJECT				

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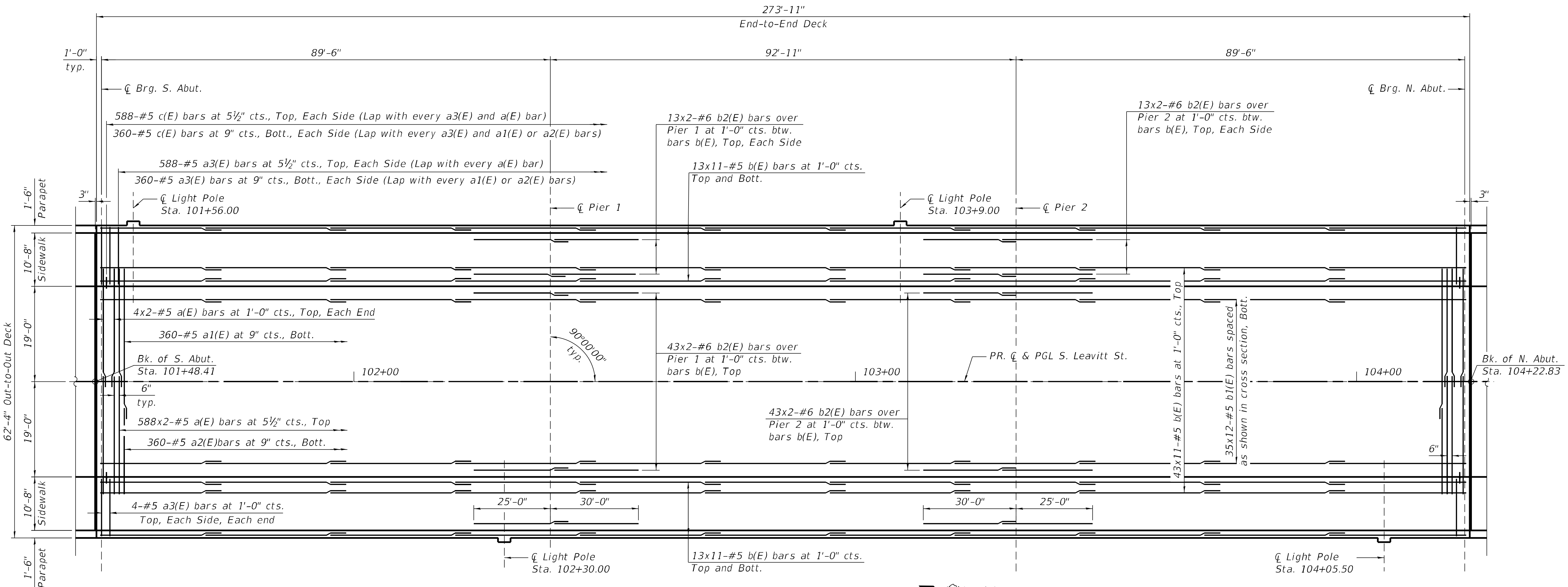


PLAN

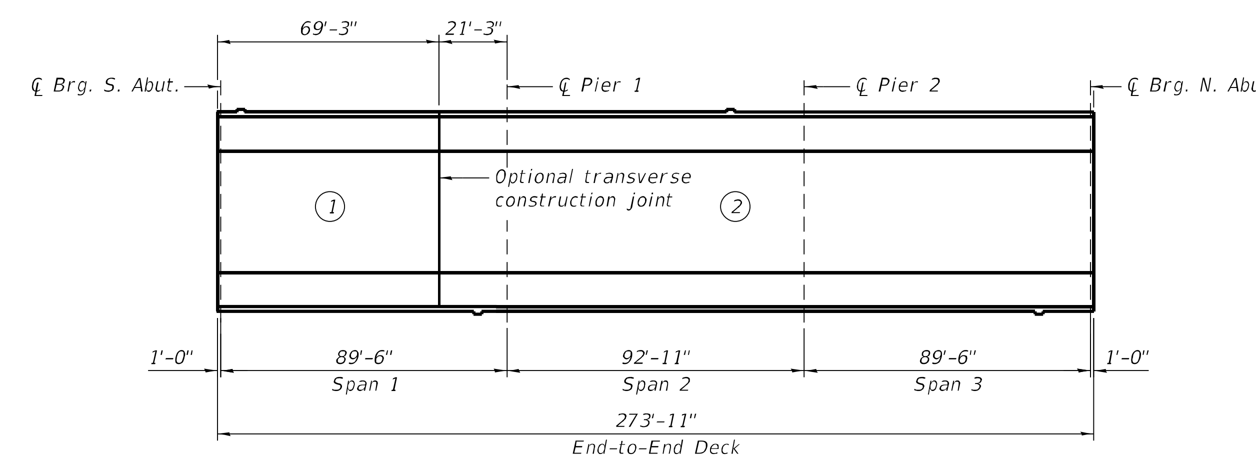
(Parapet reinforcement not shown for clarity)

MINIMUM BAR LAP

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

NOTES:

1. Bars noted thus 3x2-#5 indicates 3 lines of bars with 2 bars per line.
2. For parapet details, see Sheet S-17.
3. For light pole location, bolt circle, and quantity of conduits attached to structure, see Electrical plans.
4. Space e(E) thru e3(E) bars to miss fence and railing anchor bolts.
5. For deck details and bill of material, see Sheet S-19.
6. When the deck pour is stopped for the day at the transverse bonded construction joint in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
   1) At least 72 hours shall have elapsed from the end of the previous pour.
   2) The concrete strength shall have attained a minimum flexural strength of 675 psi or a minimum compressive strength of 4000 psi.



OPTIONAL DECK POURING SEQUENCE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN
STRUCTURE NO. 016-2079

SHEET S-15 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS FED. AID PROJECT		

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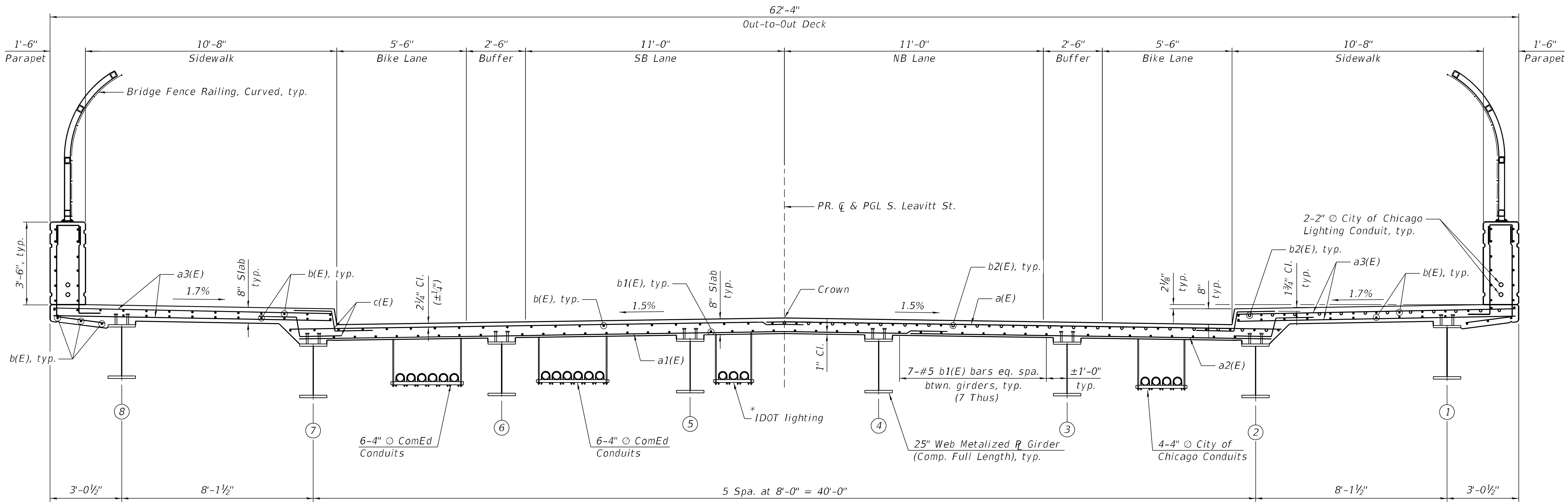

* 3-2½" ∅ conduits in Span 1
2-2½" ∅ conduits in Span 2

CROSS SECTION
(Looking North)

NOTES:

1. Proposed conduit support system is shown for information only. The concrete inserts will be provided to the Contractor by ComEd. The Contractor is responsible for placing inserts per layout details and ComEd direction. ComEd may elect to provide support to Contractor for final insert placement in advance of pouring concrete. There is no separate payment for the placement of inserts. The work involved in placing inserts is included within Concrete Superstructure.

2. For the conduits attached to structure and embedded in structure quantities and details, see Civil and Electrical plans.

3. Existing utilities between girders will be relocated to provide uninterrupted service during construction. Provisions will be made to accomodate the existing utilities into the proposed structure.

4. Existing Bridge-Mounted Sign Structures (6) to be removed and replaced.

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DECK CROSS SECTION
STRUCTURE NO. 016-2079
SHEET S-16 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS FED. AID PROJECT		

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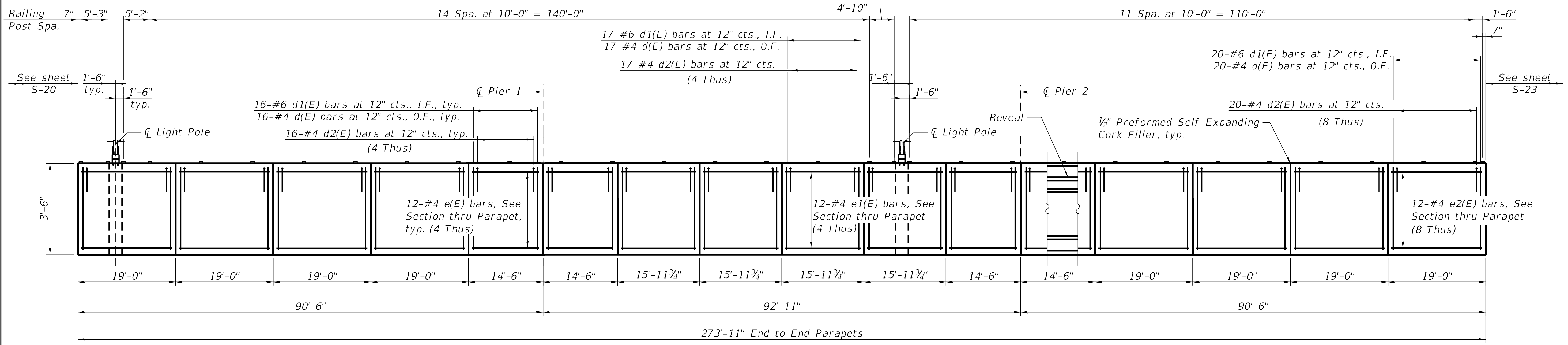
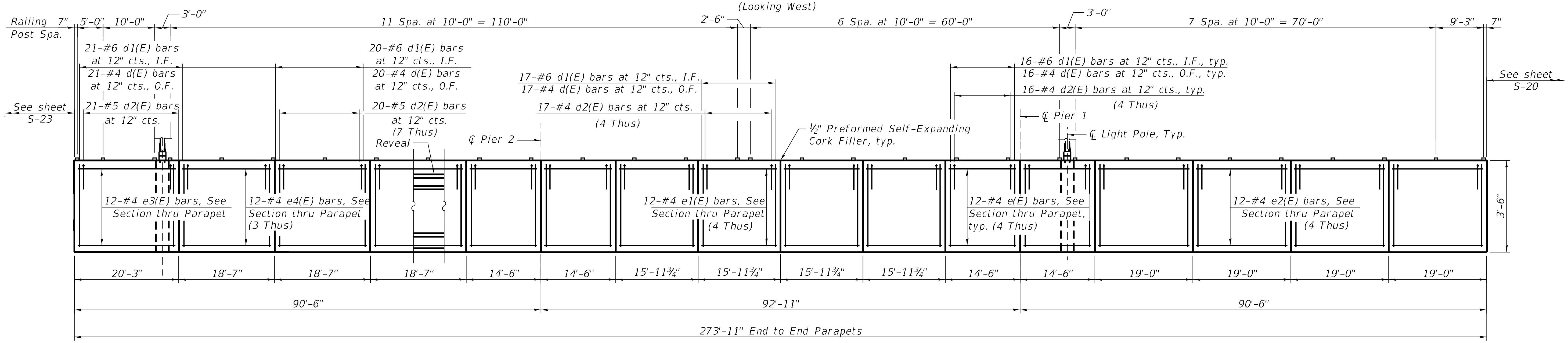


INSIDE ELEVATION OF WEST PARAPET

(Looking West)

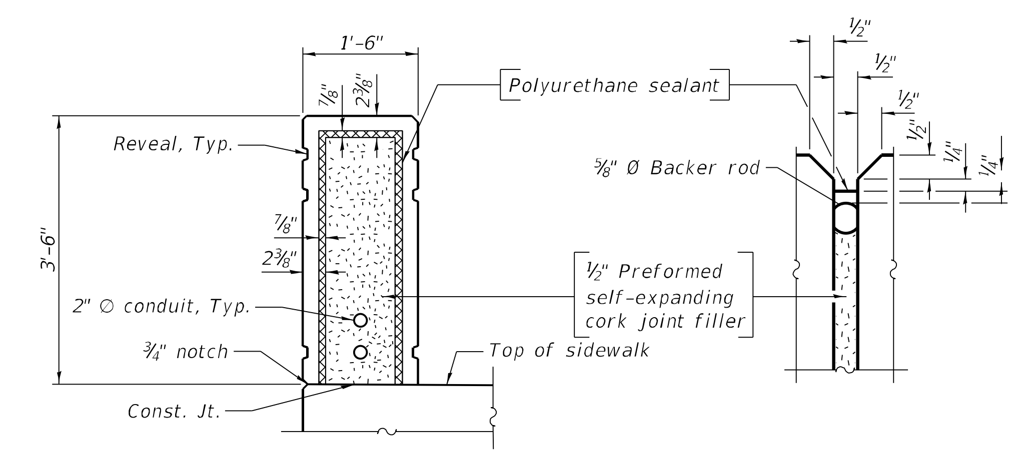


INSIDE ELEVATION OF EAST PARAPET

(Looking East)

NOTE:

1. For bar diagrams, Section Through Parapet, reveal detail, and Bill of Material, see Sheet S-19 .



PARAPET JOINT DETAILS

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		DRAWN - SBA	REVISED -			COUNTY COOK	TOTAL SHEETS 178 / SHEET NO. 110
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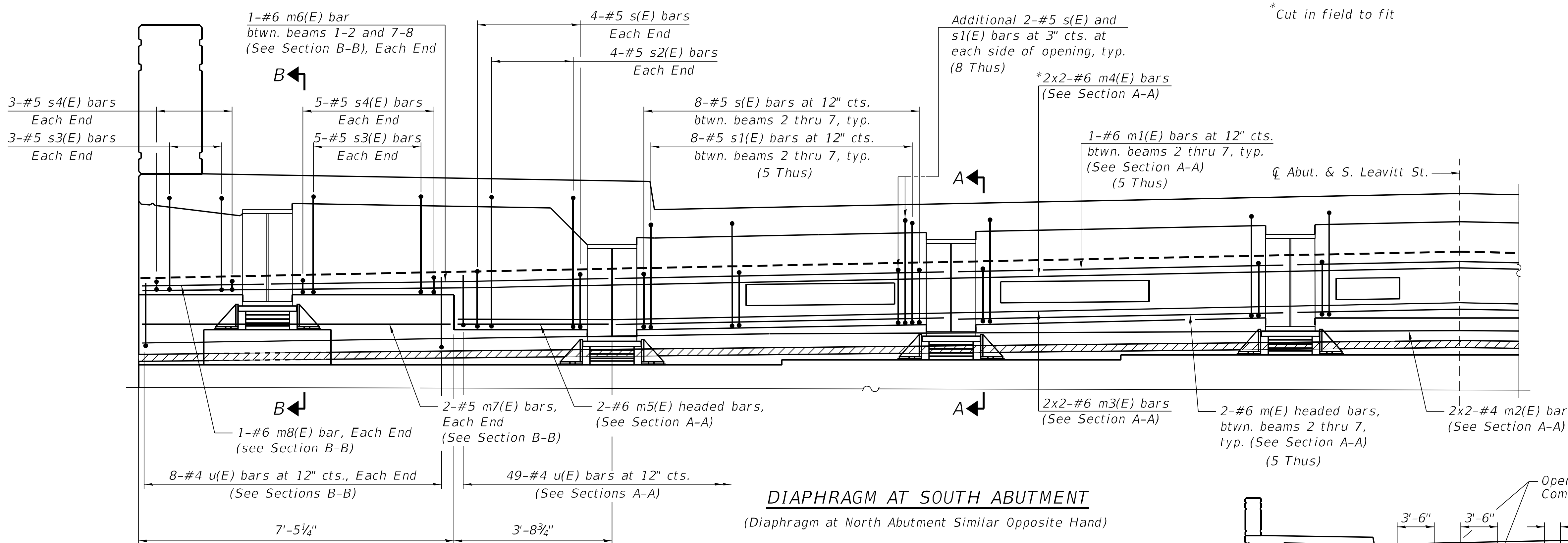
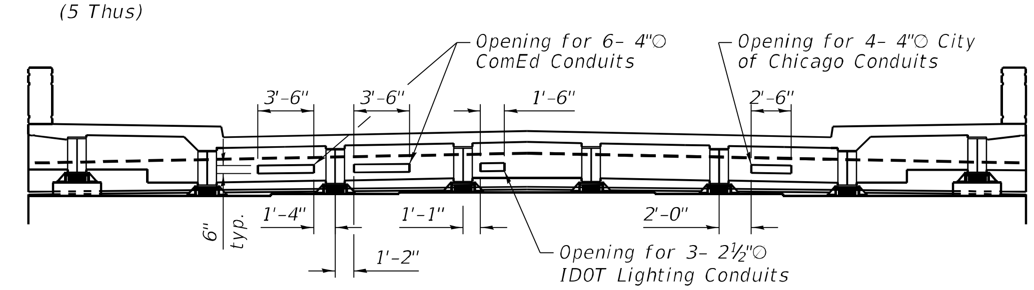


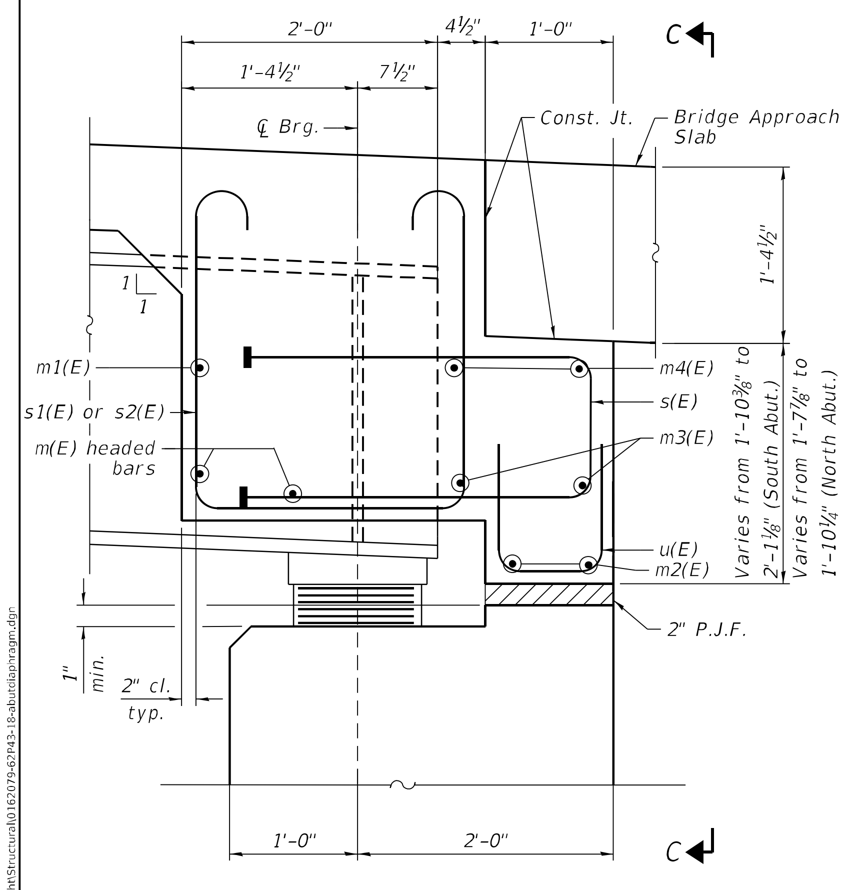
DIAPHRAGM AT SOUTH ABUTMENT

(Diaphragm at North Abutment Similar Opposite Hand)

NOTES:

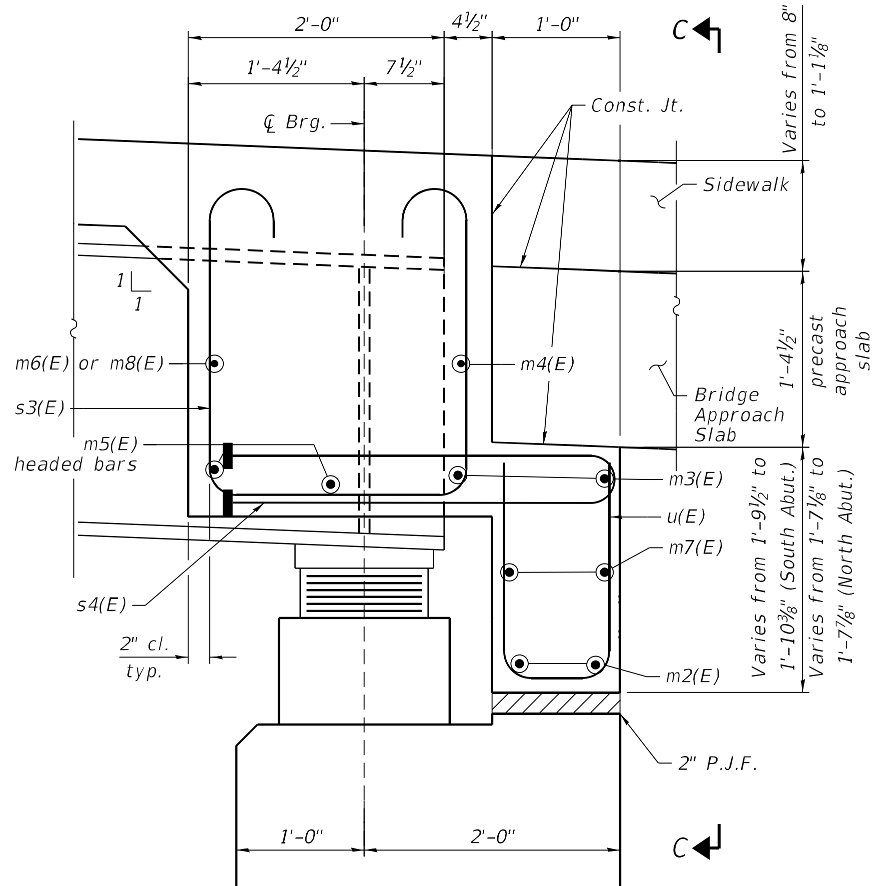
1. For superstructure details, bar diagrams and Bill of Materials, see Sheet S-19.
2. Reinforcement bars in diaphragms are billed with the superstructure on Sheet S-19.
3. Concrete in diaphragm is included with Concrete Superstructure on Sheet S-19.
4. The approach seat shall have a constant slope determined from the control points shown.
5. For bearing details see Sheet S-32.
6. Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.





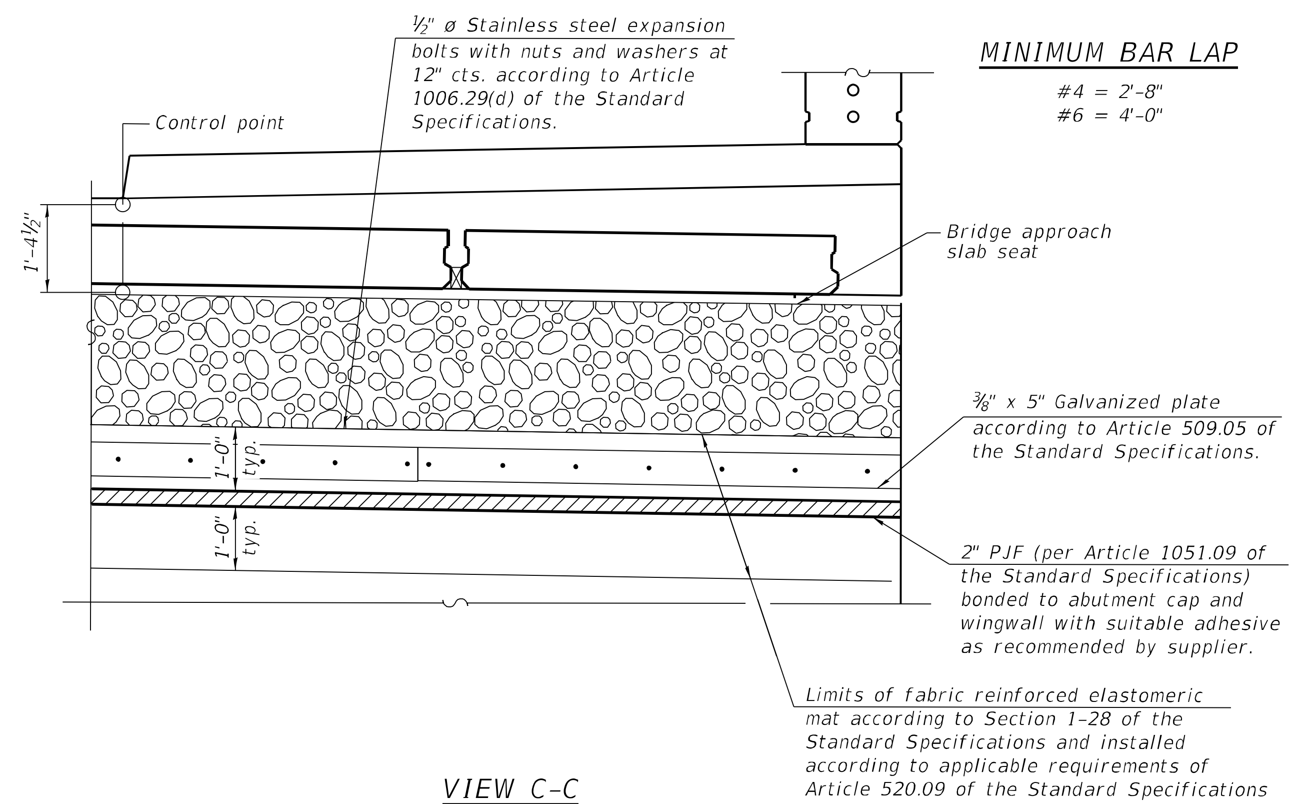
SECTION A-A

(Slab reinforcement not shown for clarity)



SECTION B-B

(Slab reinforcement not shown for clarity)



VIEW C-C

(Looking at back of abutment)

MINIMUM BAR LAP

#4 = 2'-8"
#6 = 4'-0"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DIAPHRAGMS
STRUCTURE NO. 016-2079

SHEET S-18 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS FED. AID PROJECT		

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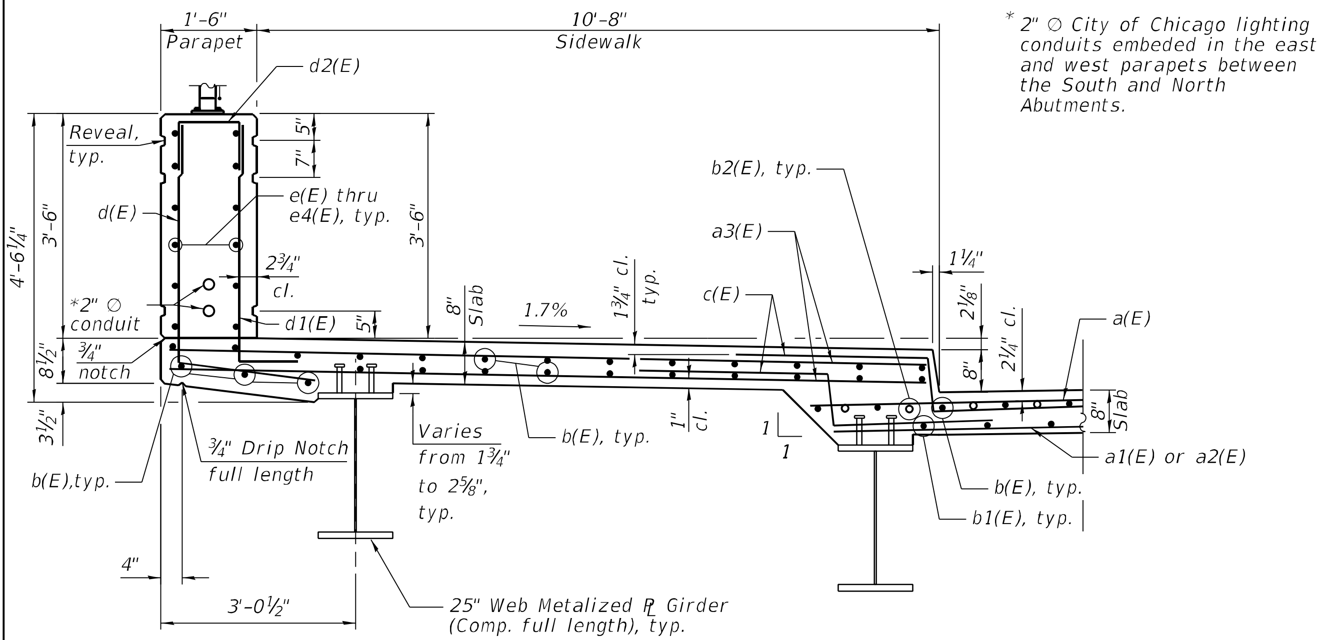
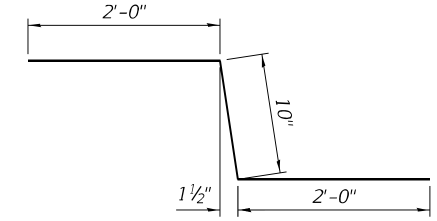


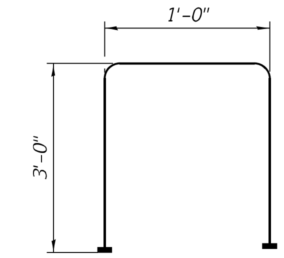
* 2" ∅ City of Chicago lighting conduits embeded in the east and west parapets between the South and North Abutments.

SECTION THRU PARAPET

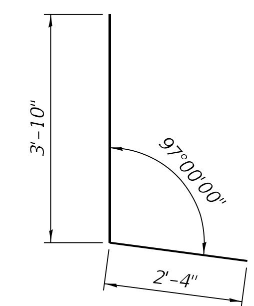
(Looking Up-Station)
(West Parapet shown, East Parapet similar opposite hand)



BAR c(E)

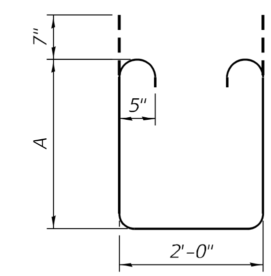


BAR s(E)

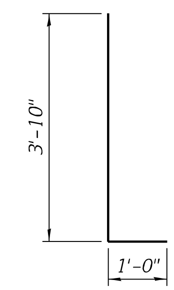


BAR d(E)

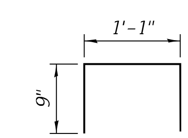
Bar	A
s1(E)	2'-4½"
s2(E)	3'-0"
s3(E)	2'-3"



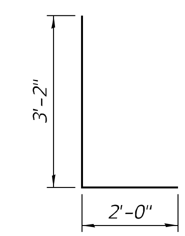
BARS s1(E) or s2(E) or s3(E)



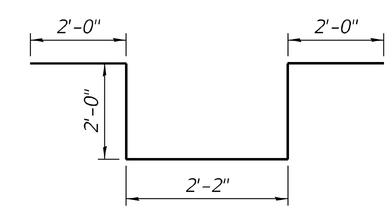
BAR d1(E)



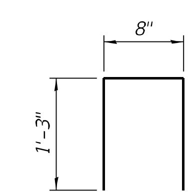
BAR d2(E)



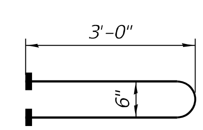
BAR d3(E)



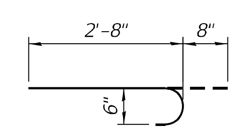
BAR d4(E)



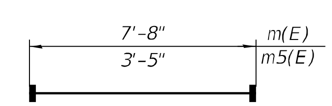
BAR u(E)



BAR s4(E)



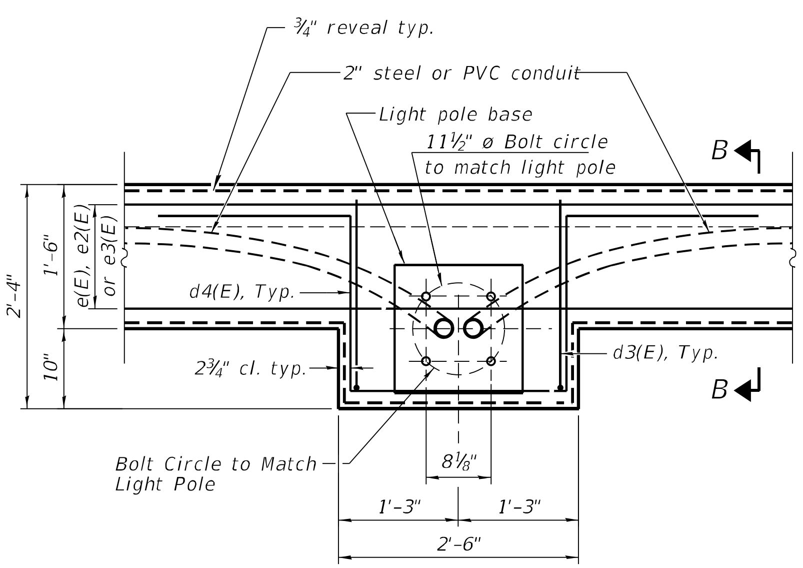
BAR m8(E)



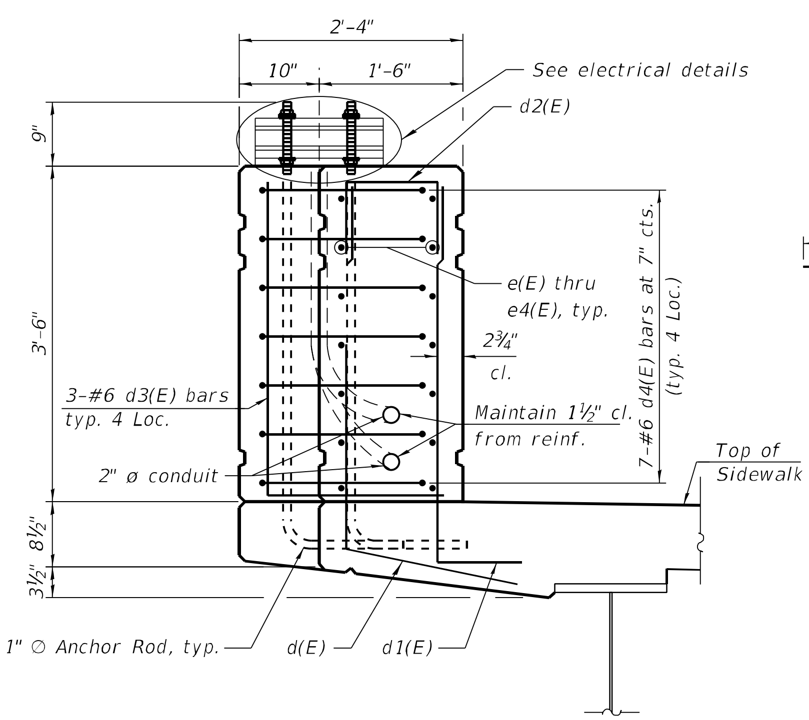
BARS m(E) or m5(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	1192	#5	22'-9"	—
a1(E)	360	#5	30'-0"	—
a2(E)	360	#5	15'-9"	—
a3(E)	1912	#5	11'-10"	—
b(E)	1045	#5	28'-1"	—
b1(E)	420	#5	26'-0"	—
b2(E)	276	#6	29'-4"	—
c(E)	1896	#5	4'-10"	
d(E)	585	#4	6'-2"	
d1(E)	585	#6	4'-10"	
d2(E)	585	#4	2'-7"	
d3(E)	12	#6	5'-2"	
d4(E)	28	#6	10'-2"	
e(E)	96	#4	14'-2"	—
e1(E)	96	#4	15'-8"	—
e2(E)	144	#4	18'-8"	—
e3(E)	12	#4	19'-11"	—
e4(E)	36	#4	18'-3"	—
m(E)	20	#6	7'-8"	
m1(E)	10	#6	7'-8"	—
m2(E)	8	#4	32'-4"	—
m3(E)	8	#6	25'-7"	—
m4(E)	8	#6	33'-0"	—
m5(E)	8	#6	3'-5"	
m6(E)	4	#6	7'-10"	—
m7(E)	8	#5	7'-1"	—
m8(E)	4	#6	3'-3"	
s(E)	120	#5	7'-0"	
s1(E)	104	#5	7'-11"	
s2(E)	16	#5	9'-2"	
s3(E)	32	#5	7'-8"	
s4(E)	32	#5	6'-5"	
u(E)	130	#4	3'-2"	
Concrete Superstructure			Cu Yd	571.9
Bridge Deck Grooving			Sq Yd	1,157
Protective Coat			Sq Yd	2,151
Reinforcement Bars, Epoxy Coated			Pound	149,290

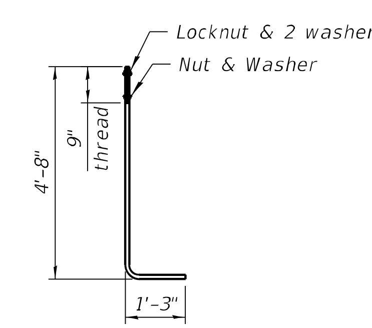


PLAN



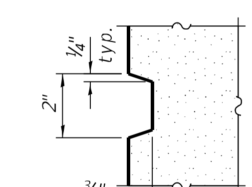
SECTION B-B

PARAPET DETAIL AT LIGHTPOLE



ANCHOR ROD

Cost of anchor rods is included with Concrete Superstructure.



REVEAL DETAIL

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		DRAWN - SBA	REVISED -			CONTRACT NO. 62P43
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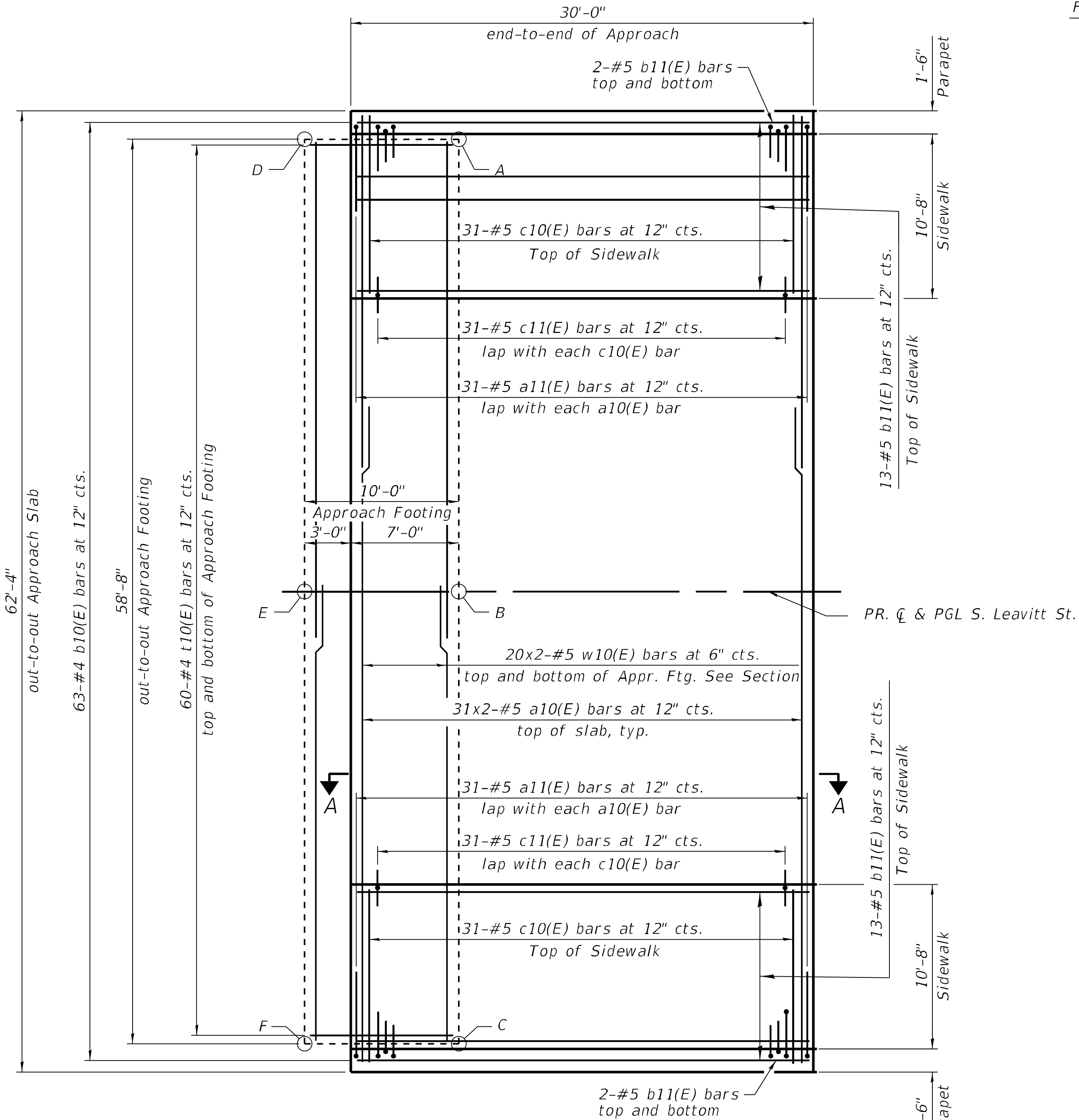
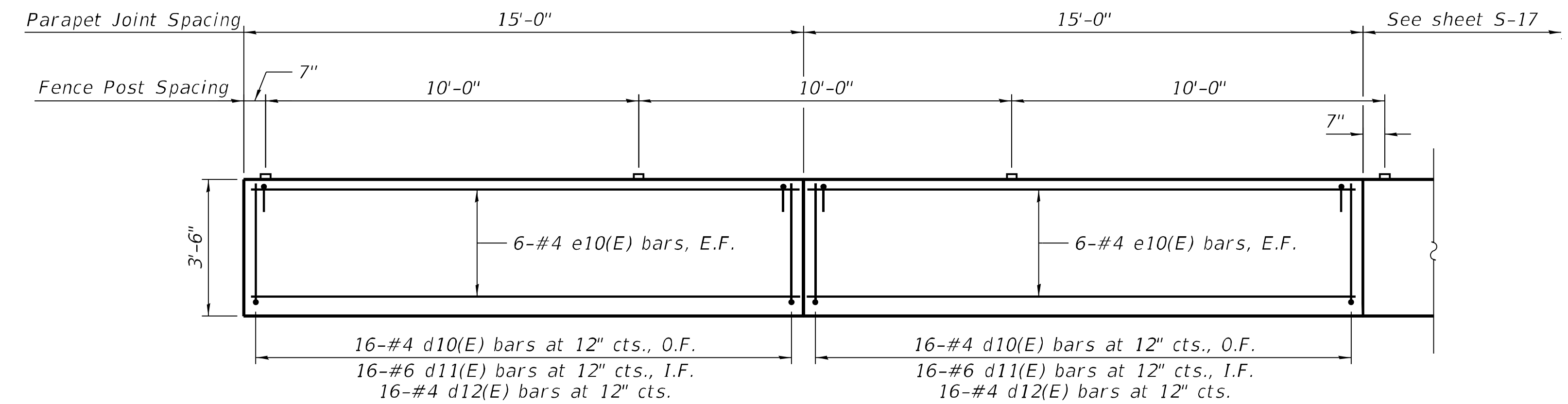


SOUTH APPROACH SLAB PLAN



INSIDE ELEVATION OF PARAPET

(West Parapet shown. East Parapet similar - opposite hand)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point/ Location	Approach Top	Approach Bottom
A	593.77	592.94
B	594.21	593.38
C	593.77	592.94
D	593.34	592.51
E	593.78	592.95
F	593.34	592.51

NOTES:

1. Parapet and sidewalk concrete shall be paid for as Concrete Superstructure.
2. The Approach Footing concrete shall be paid for as Concrete Structures.
3. The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
4. Cast-in-place substitution of Precast Bridge Apporach Slab is not allowed.
5. The top surface of the precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."
6. Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
7. A minimum 2½" ø lifting pins shall be used to engage the lifting loops during handling.
8. For Section A-A, see Sheet S-21.

MINIMUM BAR LAPS

#5 = 3'-6"

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SOUTH PRECAST BRIDGE APPROACH SLAB (SHEET 1 OF 3)
STRUCTURE NO. 016-2079

SHEET S-20 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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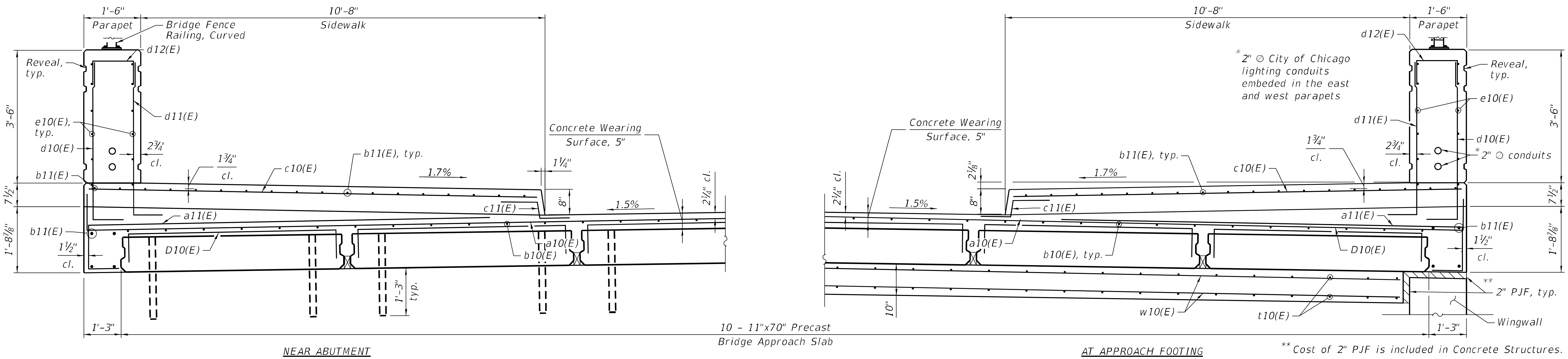
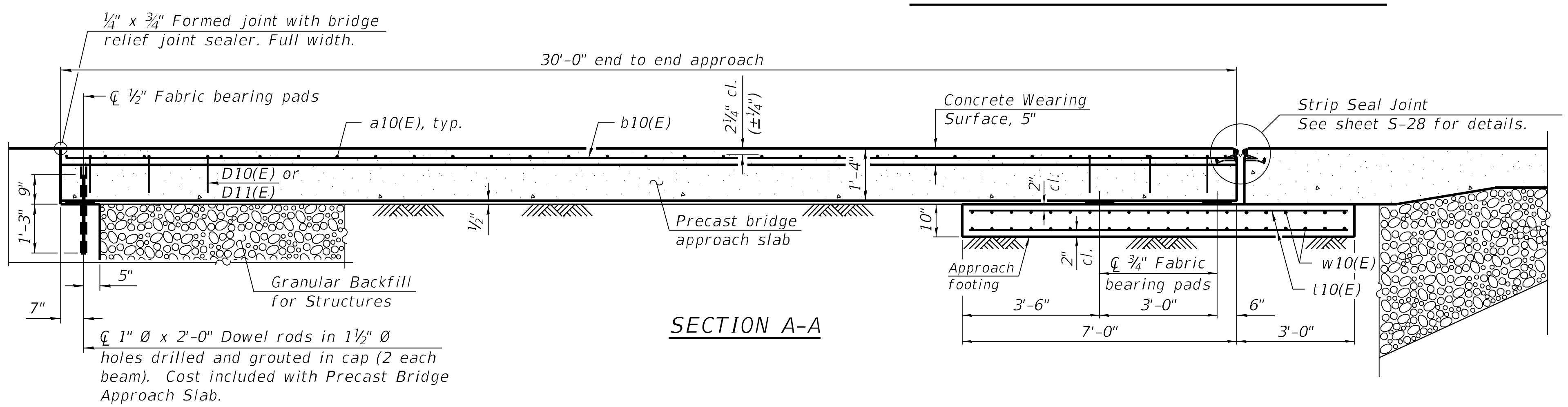


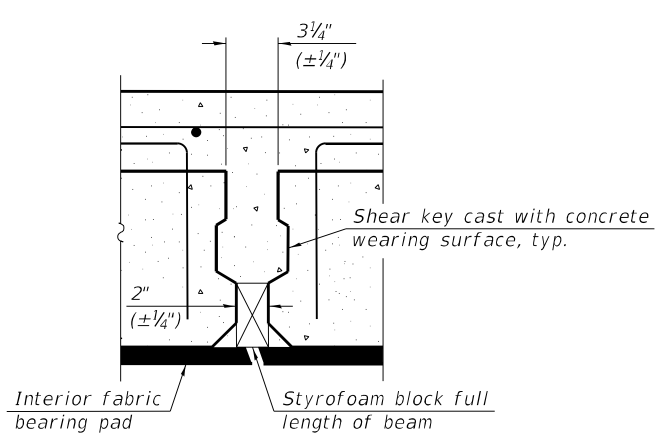
SOUTH APPROACH SLAB CROSS SECTION



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	62	#5	33'-7"	
a11(E)	62	#5	8'-2"	
b10(E)	63	#4	29'-8"	
b11(E)	34	#5	29'-8"	
c10(E)	62	#5	11'-10"	
c11(E)	62	#5	2'-4"	
d10(E)	64	#4	5'-10"	
d11(E)	64	#6	5'-8"	
d12(E)	64	#4	2'-7"	
e10(E)	48	#4	14'-8"	
t10(E)	120	#4	9'-8"	
w10(E)	80	#5	30'-11"	
Concrete Structures			Cu Yd	18.2
Concrete Superstructure			Cu Yd	40.3
Bridge Deck Grooving			Sq Yd	127
Protective Coat			Sq Yd	236
Reinforcement Bars, Epoxy Coated			Pound	10,650
Concrete Wearing Surface, 5"			Sq Yd	208
Precast Bridge Approach Slab			Sq Ft	1,750



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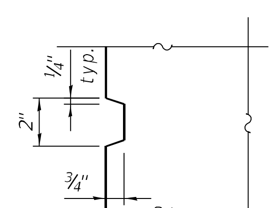

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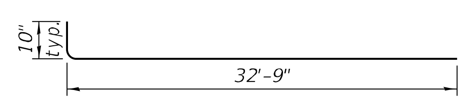
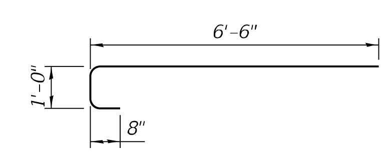


BAR a10(E)



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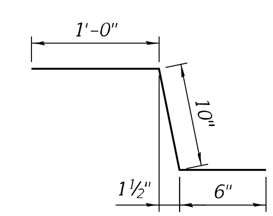

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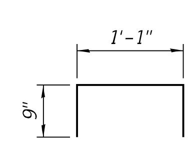

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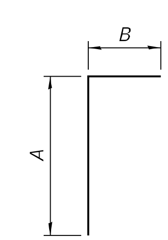

BARS

Bar	A	B
d10(E)	4'-8"	1'-2"
d11(E)	4'-6"	1'-2"

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DEPARTMENT OF TRANSPORTATION

SOUTH PRECAST BRIDGE APPROACH SLAB (SHEET 2 OF 3)
STRUCTURE NO. 016–2079

SHEET S-21 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	114

CONTRACT NO. 62P43
ILLINOIS FED. AID PROJECT

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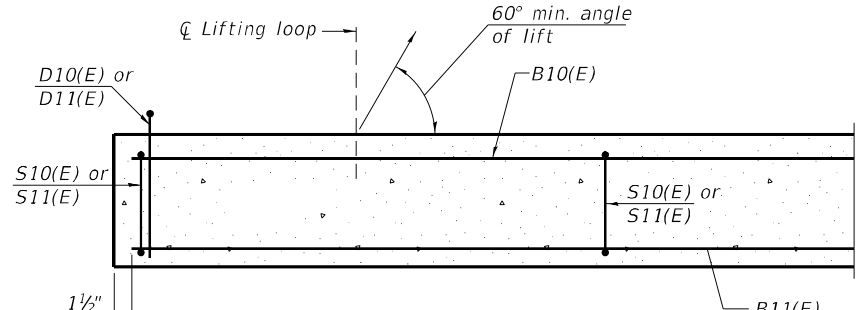
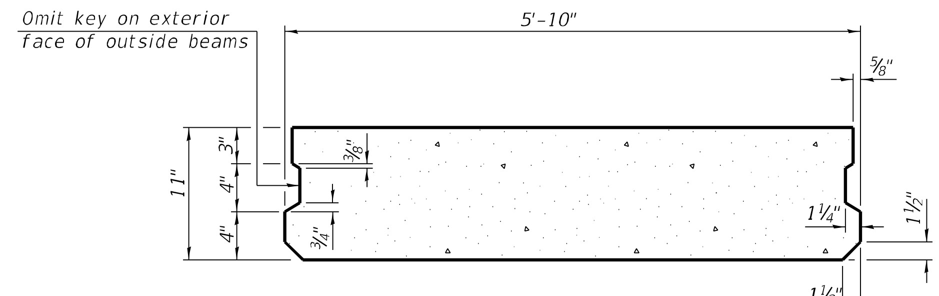
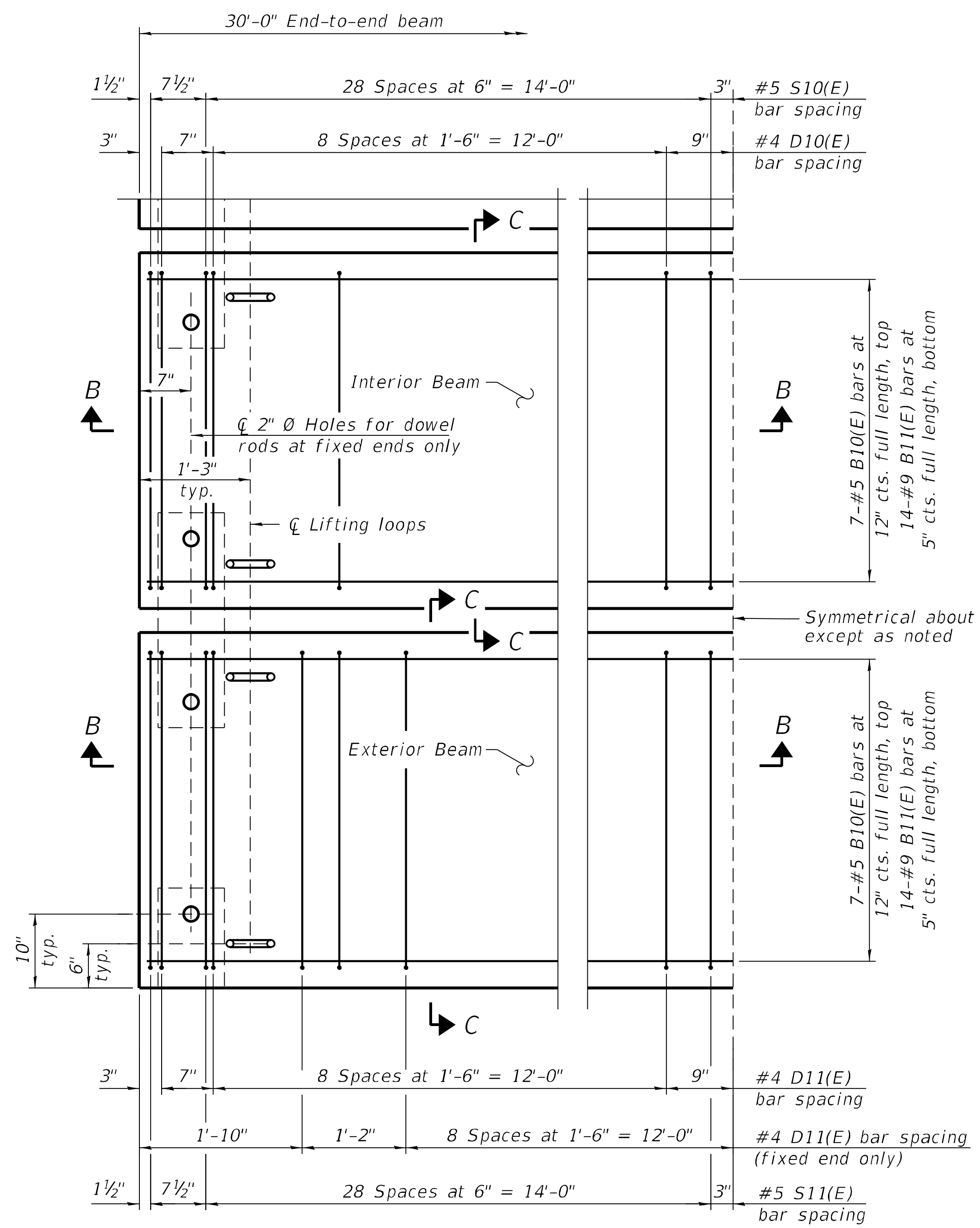


SECTION B-B

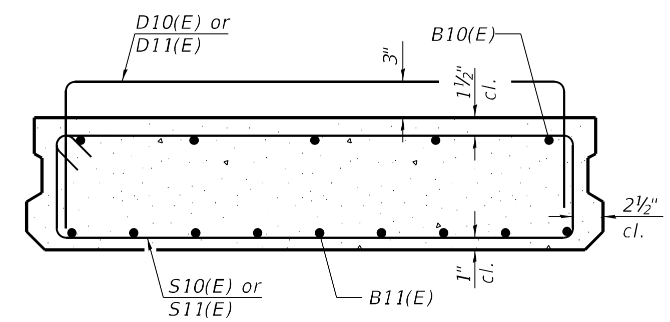


SECTION C-C
(Showing dimensions)

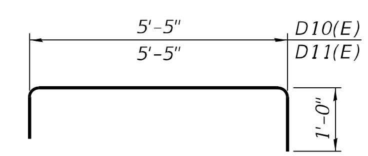
Notes:
The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.
The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
A minimum 2 ½" Ø lifting pins shall be used to engage the lifting loops during handling.
Compressive strength of precast concrete, f'c shall be 6,000 psi.
Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.



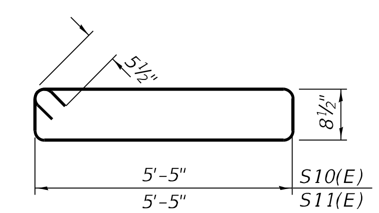
PLAN



SECTION C-C
(Showing reinforcement)



BARS D10(E) & D11(E)



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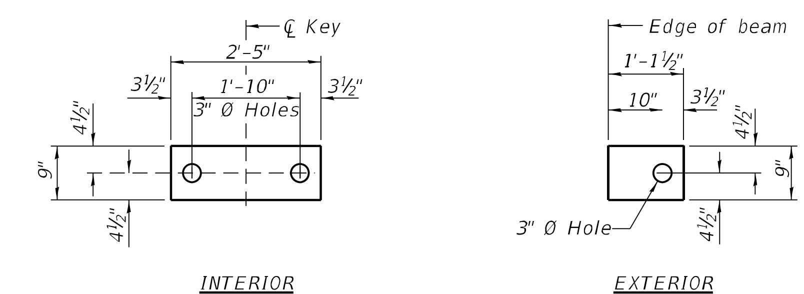
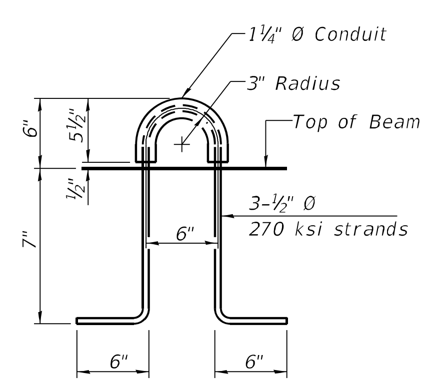


FABRIC BEARING PAD

Notes:
Bearing pads at fixed end shall be ½" thick and bearing pads at expansion end shall be ¾" thick.
Omit holes for fabric bearing pads at approach slab footing end of beams.



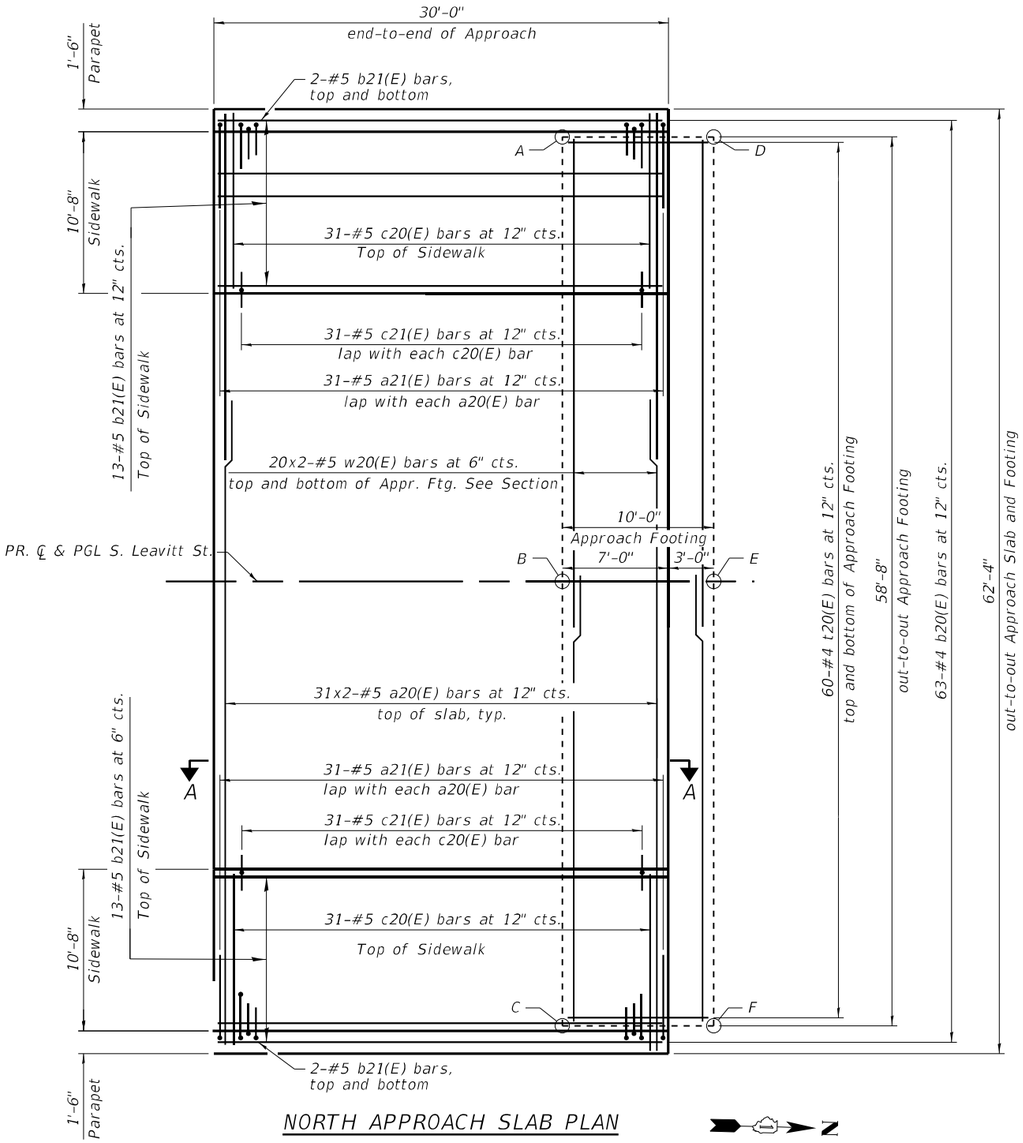
LIFTING LOOP DETAIL
(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

BAR LIST
EACH INTERIOR BEAM
(For information only)

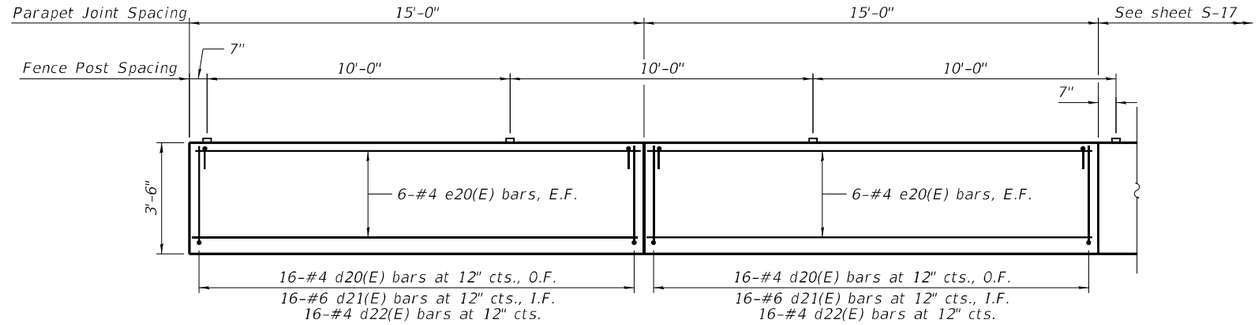
Bar	No.	Size	Length	Shape
B10(E)	7	#5	29'-8"	—
B11(E)	14	#9	29'-8"	—
D10(E)	22	#4	7'-5"	⊓
S10(E)	60	#5	13'-2"	▭

BAR LIST
EACH EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B10(E)	7	#5	29'-8"	—
B11(E)	14	#9	29'-8"	—
D11(E)	32	#4	7'-5"	⊓
S11(E)	60	#5	13'-2"	▭



NORTH APPROACH SLAB PLAN



INSIDE ELEVATION OF PARAPET

(East Parapet shown. West Parapet similar - opposite hand)

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Approach		
Point/ Location	Top	Bottom
A	593.86	593.02
B	594.30	593.46
C	593.86	593.02
D	593.45	592.62
E	593.89	593.06
F	593.45	592.62

NOTES:

1. Parapet and sidewalk concrete shall be paid for as Concrete Superstructure.
2. The Approach Footing concrete shall be paid for as Concrete Structures.
3. The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
4. Cast-in-place substitution of Precast Bridge Apporach Slab is not allowed.
5. The top surface of the precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."
6. Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
7. A minimum 2½" ø lifting pins shall be used to engage the lifting loops during handling.
8. For Section A-A, see Sheet S-24.

MINIMUM BAR LAPS

#5 = 3'-6"

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STATE OF ILLINOIS
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NORTH PRECAST BRIDGE APPROACH SLAB (SHEET 1 OF 3)
STRUCTURE NO. 016-2079

SHEET S-23 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

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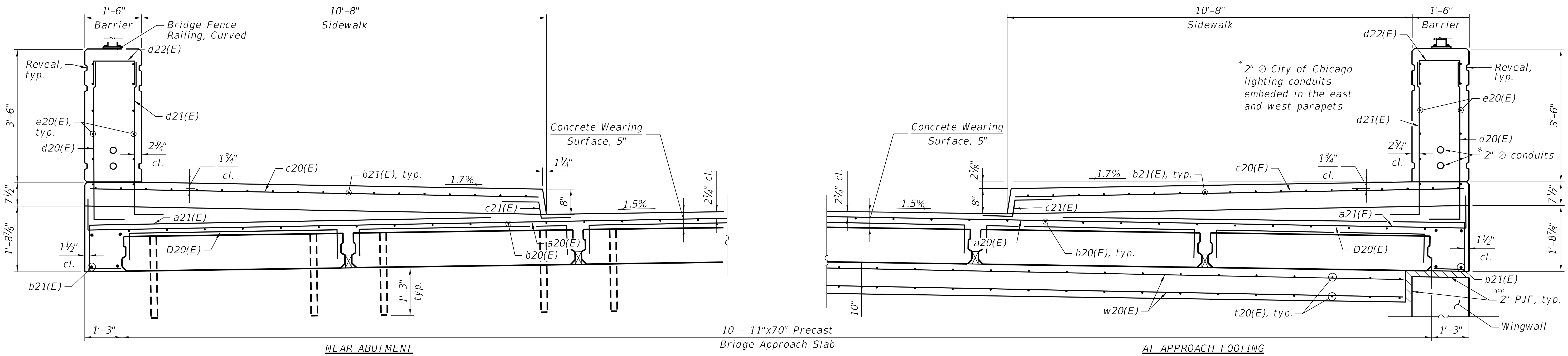
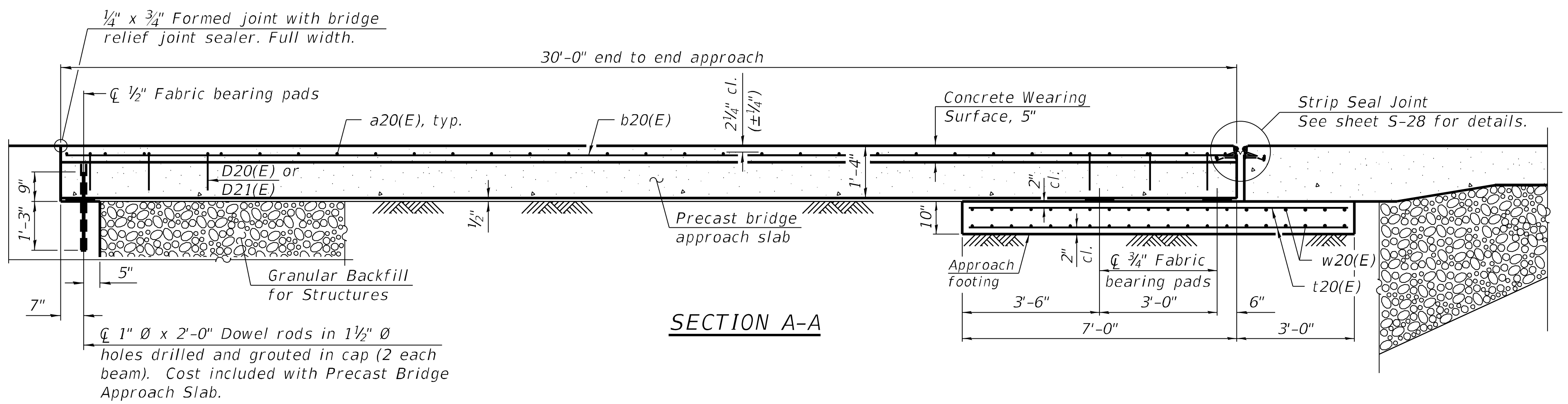
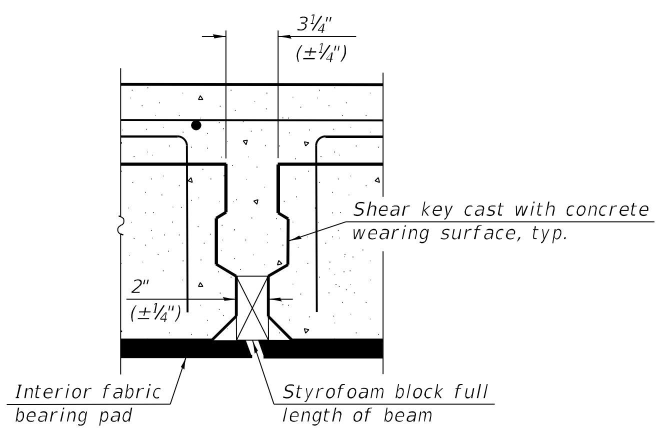


NORTH APPROACH SLAB CROSS SECTION

** Cost of 2" PJF is included in Concrete Structures.



SECTION A-A



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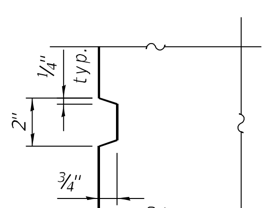

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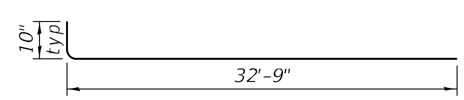

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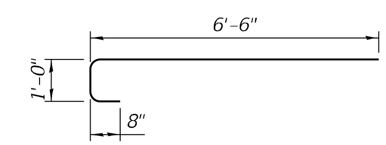

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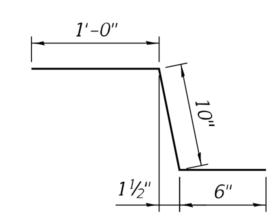

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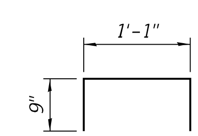

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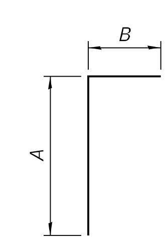

BARS

Bar	A	B
d20(E)	4'-8"	1'-2"
d21(E)	4'-6"	1'-2"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	62	#5	33'-7"	
a21(E)	62	#5	8'-2"	
b20(E)	63	#4	29'-8"	
b21(E)	34	#5	29'-8"	
c20(E)	62	#5	11'-10"	
c21(E)	62	#5	2'-4"	
d20(E)	64	#4	5'-10"	
d21(E)	64	#6	5'-8"	
d22(E)	64	#4	2'-7"	
e20(E)	48	#4	14'-8"	
t20(E)	120	#4	9'-8"	
w20(E)	80	#5	30'-11"	
Concrete Structures			Cu Yd	18.2
Concrete Superstructure			Cu Yd	40.3
Bridge Deck Grooving			Sq Yd	127
Protective Coat			Sq Yd	236
Reinforcement Bars, Epoxy Coated			Pound	10,650
Concrete Wearing Surface, 5"			Sq Yd	208
Precast Bridge Approach Slab			Sq Ft	1,750

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NORTH PRECAST BRIDGE APPROACH SLAB (SHEET 2 OF 3)
STRUCTURE NO. 016-2079

SHEET S-24 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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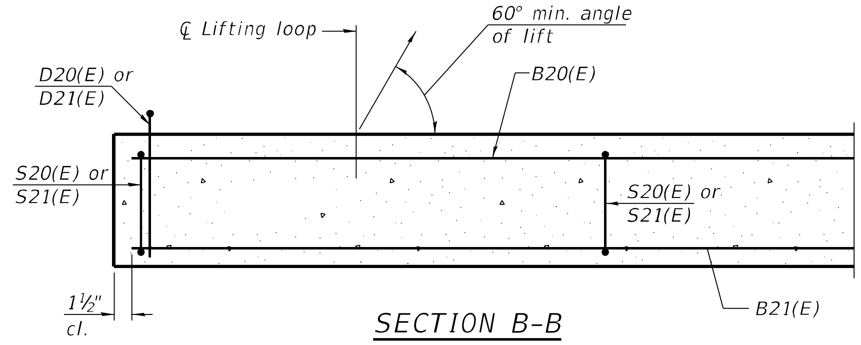
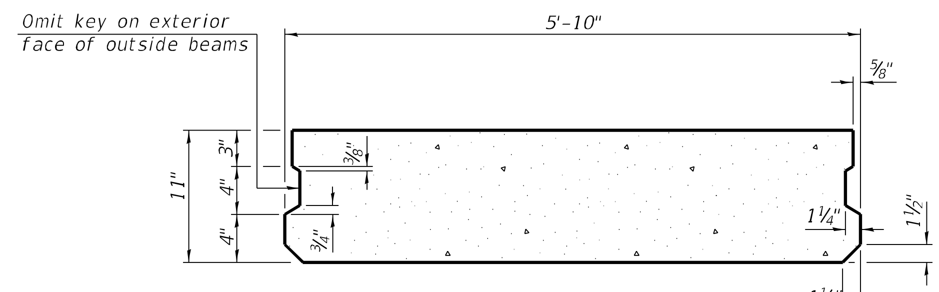


SECTION B-B



SECTION C-C
(Showing dimensions)

Notes:

The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.

Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.

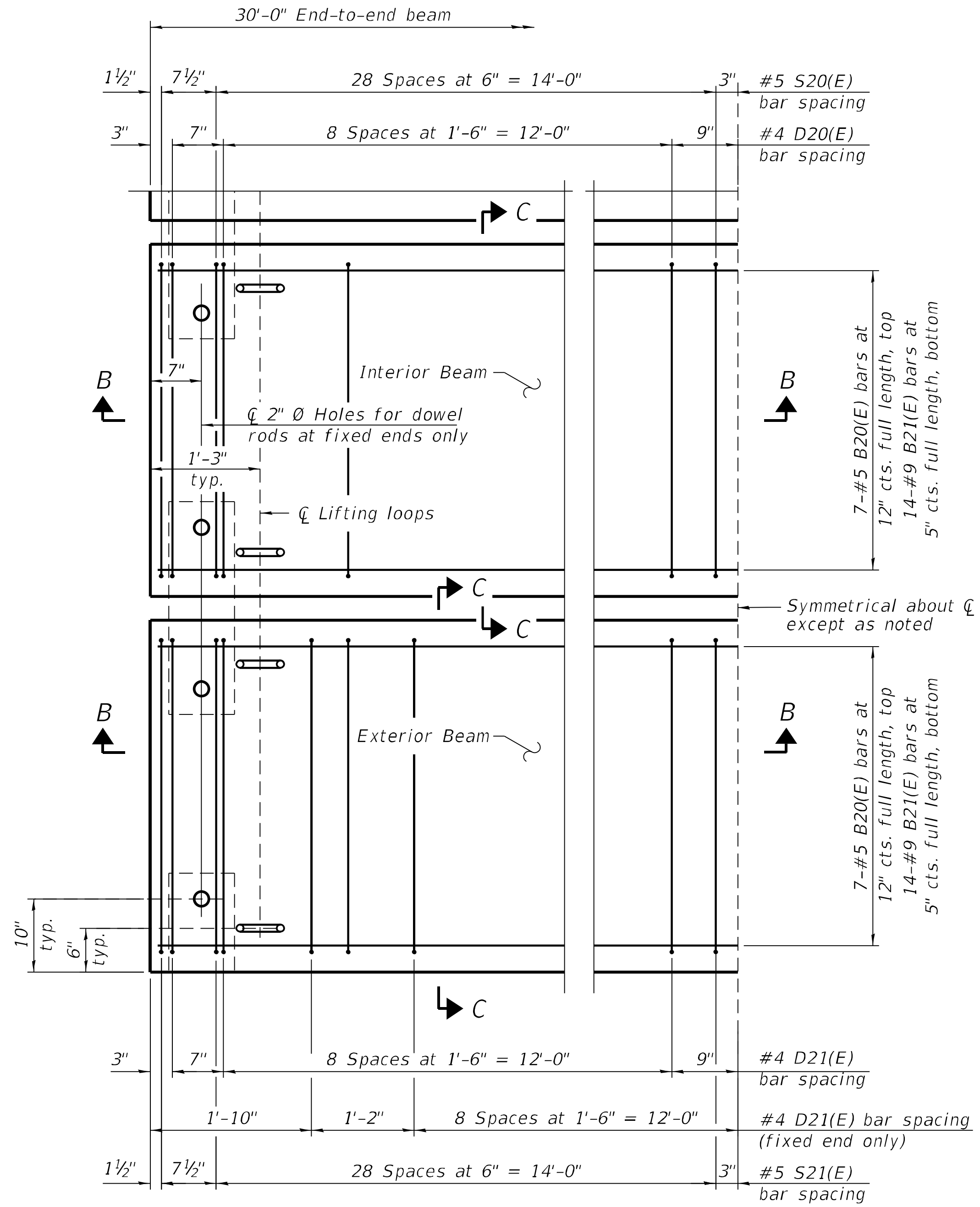
The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.

A minimum 2 ½" Ø lifting pins shall be used to engage the lifting loops during handling.

Compressive strength of precast concrete, f'c shall be 6,000 psi.

Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.



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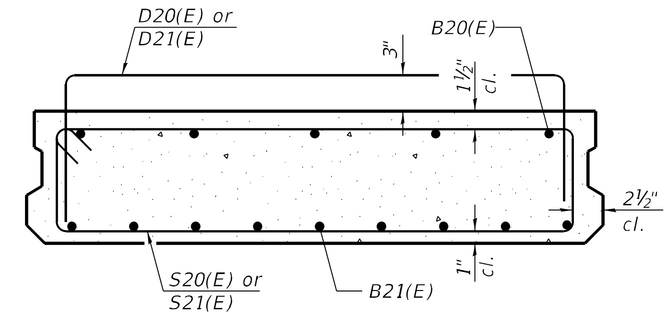

SECTION C-C
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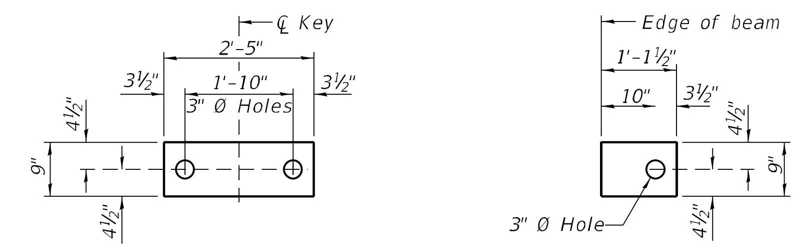
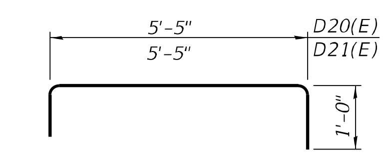


FABRIC BEARING PAD

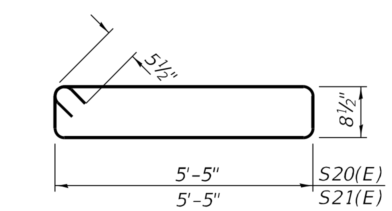
Notes:

Bearing pads at fixed end shall be ½" thick and bearing pads at expansion end shall be ¾" thick.

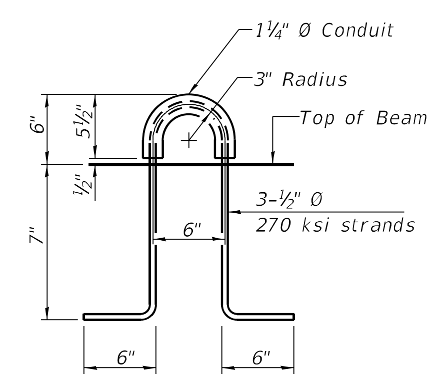
Omit holes for fabric bearing pads at approach slab footing end of beams.



BARS D20(E) & D21(E)



BARS S20(E) & S21(E)



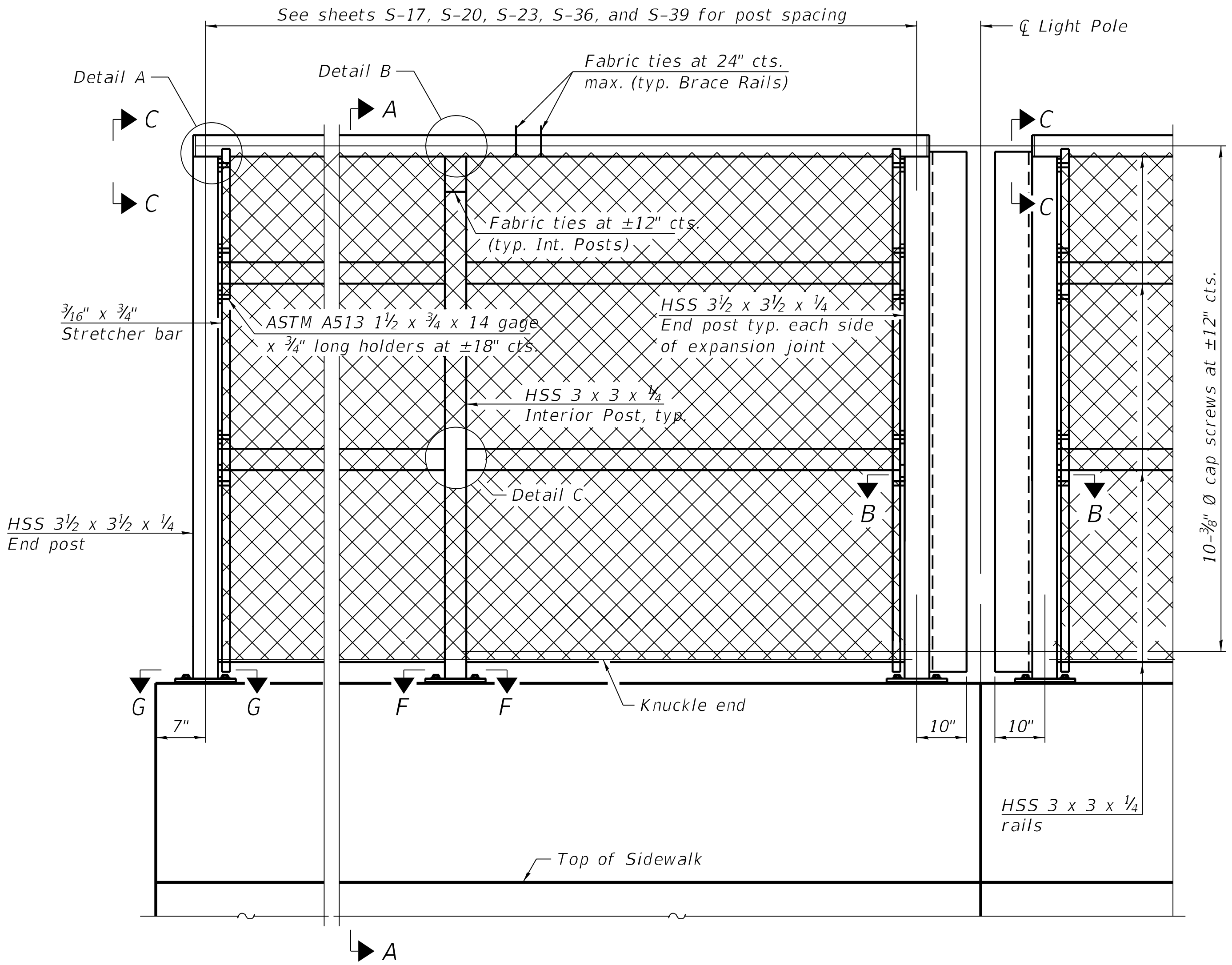
LIFTING LOOP DETAIL
(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

BAR LIST
EACH INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B20(E)	7	#5	29'-8"	—
B21(E)	14	#9	29'-8"	—
D20(E)	22	#4	7'-5"	⊓
S20(E)	60	#5	13'-2"	▭

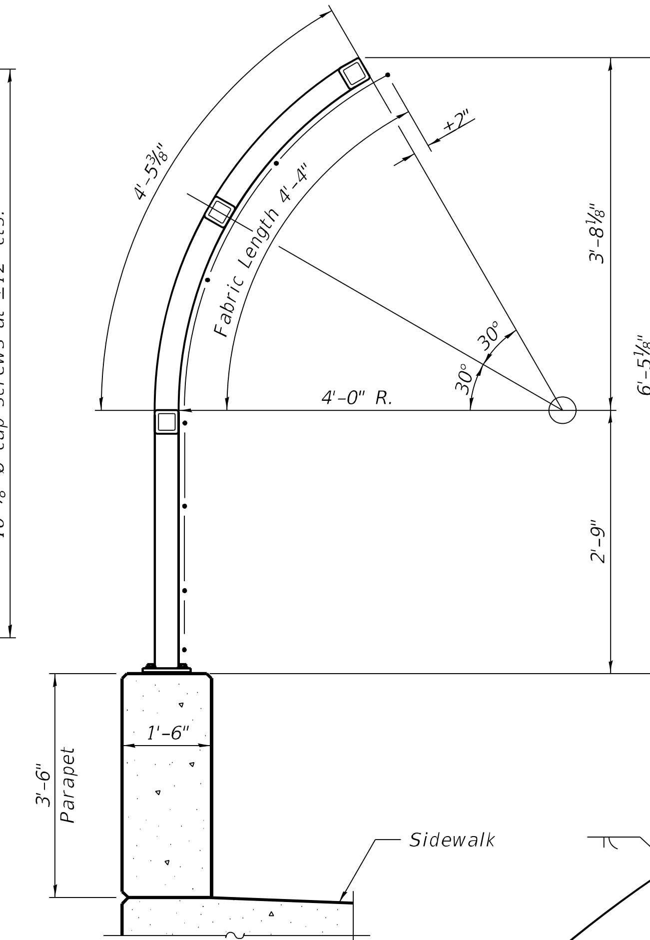
BAR LIST
EACH EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B20(E)	7	#5	29'-8"	—
B21(E)	14	#9	29'-8"	—
D21(E)	32	#4	7'-5"	⊓
S21(E)	60	#5	13'-2"	▭

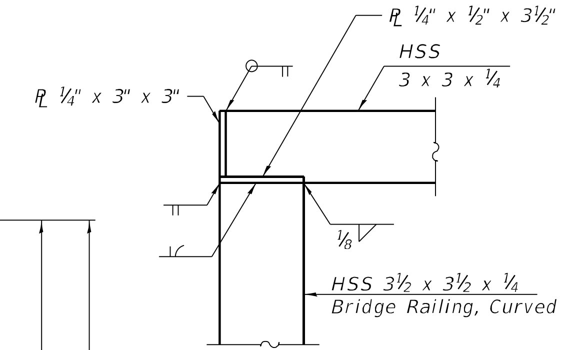


ELEVATION BRIDGE FENCE RAILING, CURVED

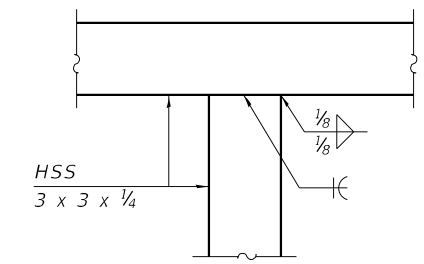
(Inside face)



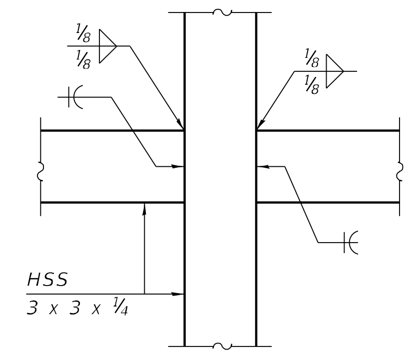
SECTION A-A



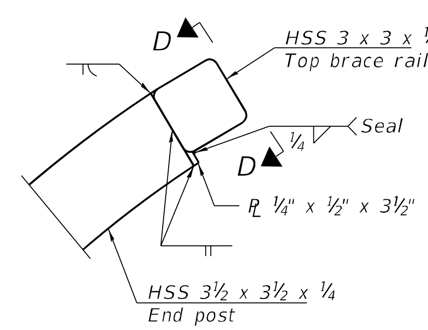
DETAIL A



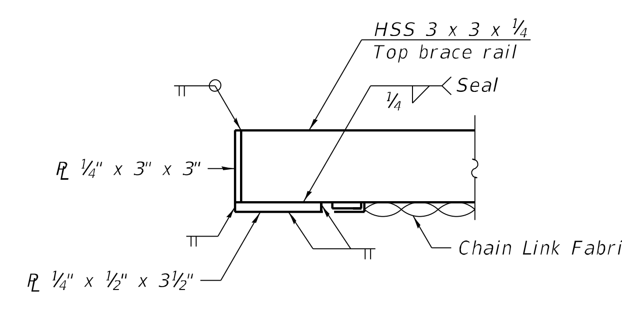
DETAIL B



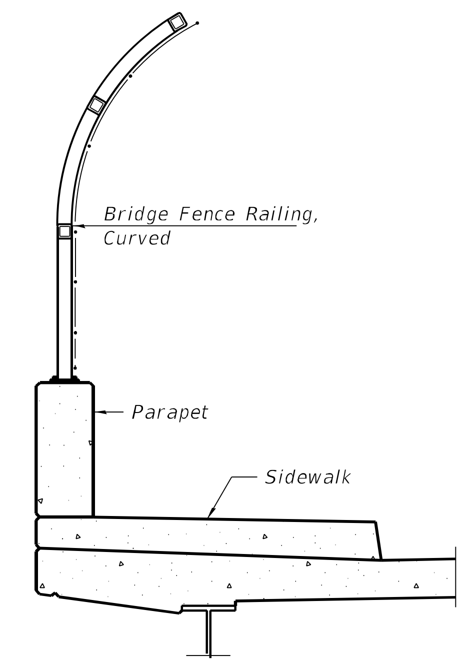
DETAIL C



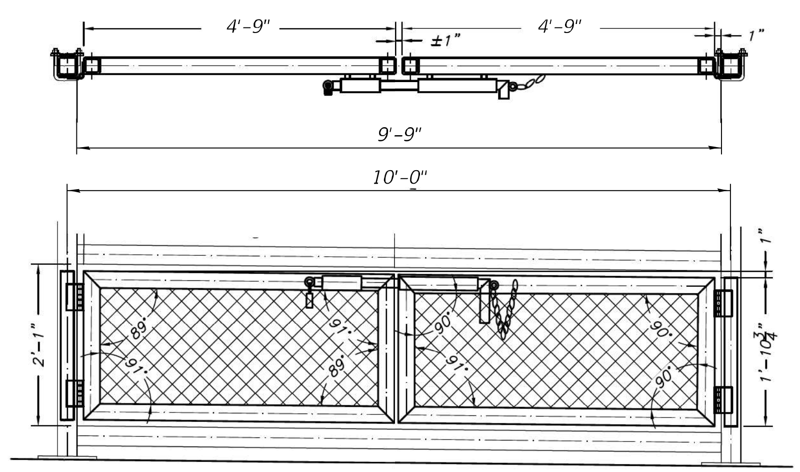
VIEW C-C



VIEW D-D



SECTION THRU DECK



CAMERA ACCESS DETAIL

(4 locations)

(The exact location and number of ISP camera fence access details to be provided by Illinois State Police)

RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	70
Max Post Spacing	10'-0"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, CURVED (SHEET 1 OF 2)
STRUCTURE NO. 016-2079

SHEET S-26 OF S-47 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	119
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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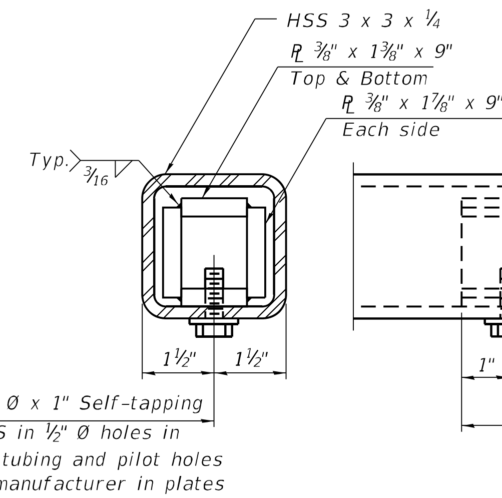
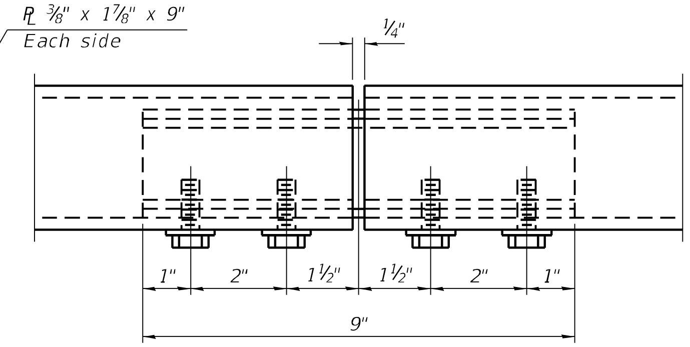
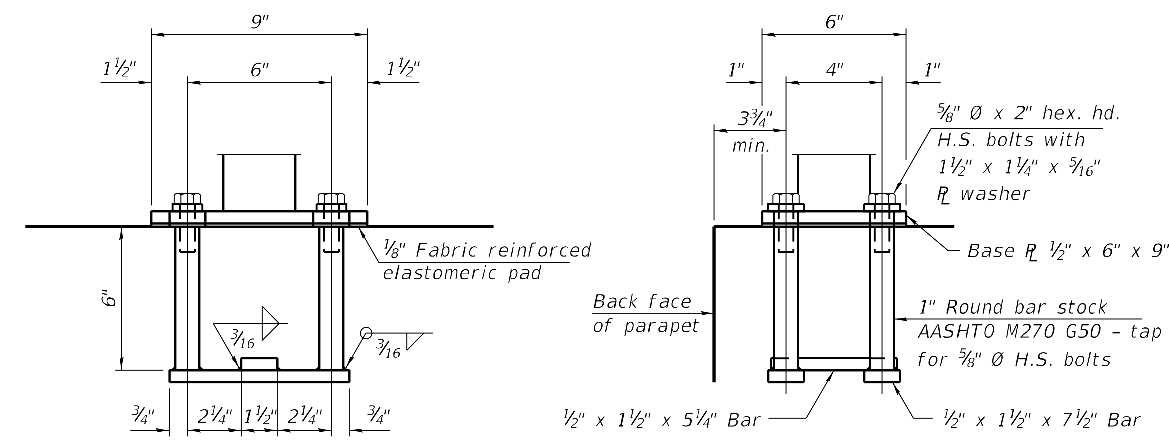




AT RAIL

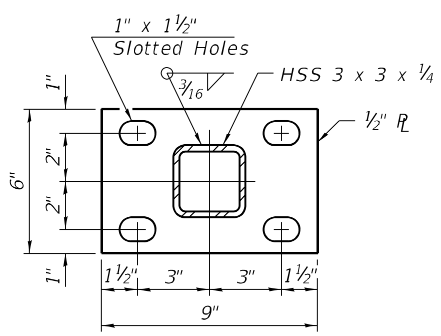
MATERIAL SPLICE

Notes:
Place reinforcement bars to miss anchor rod locations.
CVN testing is not required for the HSS tubing used in the Bridge Fence Railing, Curved.
All HSS tubing used for the Handrail shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
All heavy hex nuts shall be according to ASTM A 563 grade DH.
All fully threaded anchor rods shall be ASTM F1554 grade 105.
The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.
Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
When the contract specifies a galvanized railing, all steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. When the contract specifies a painted railing, all posts, rail, splices, anchor devices and plates of the railing shall be painted according to the paint system for railings as specified in the General Notes.
See sheet S-28 of S-47 for dimensions of concrete openings at expansion joints.

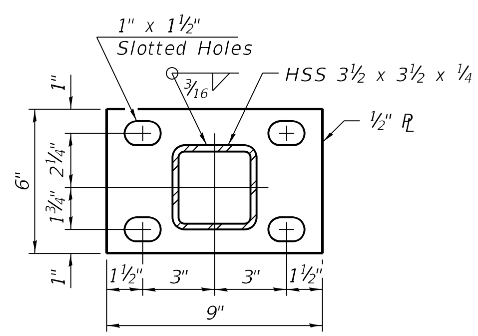


ANCHORAGE ASSEMBLY

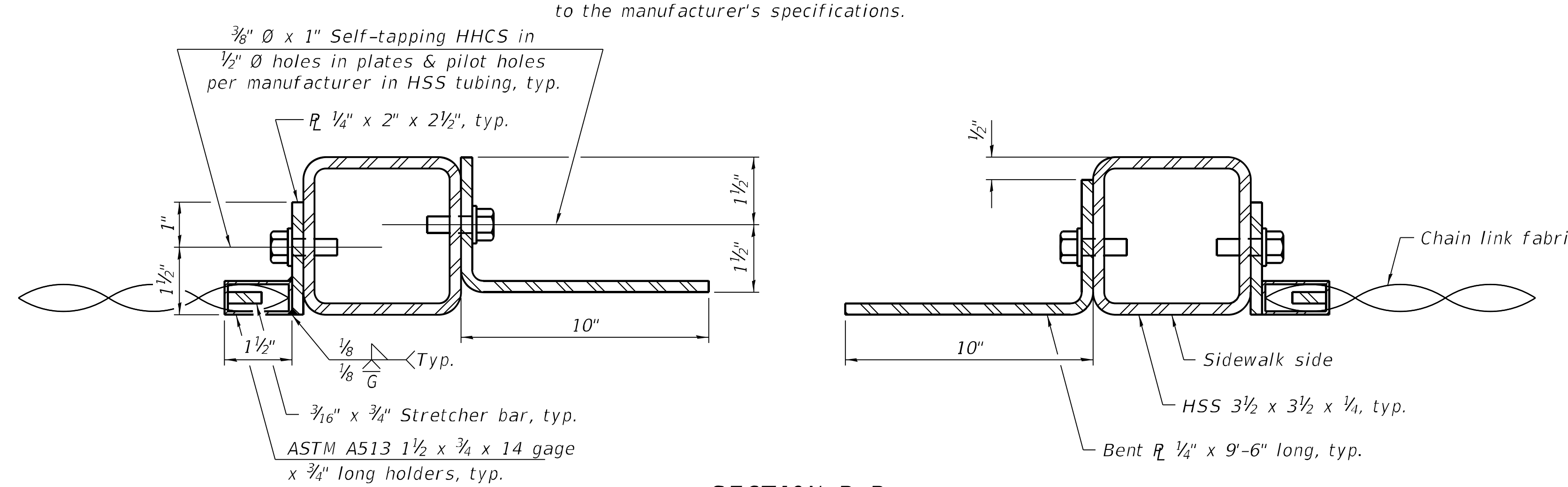
The Bridge Fence Railing, Curved fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates.
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



SECTION F-F



SECTION G-G



SECTION B-B

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing, Curved	Foot	716

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, CURVED (SHEET 2 OF 2)
STRUCTURE NO. 016-2079

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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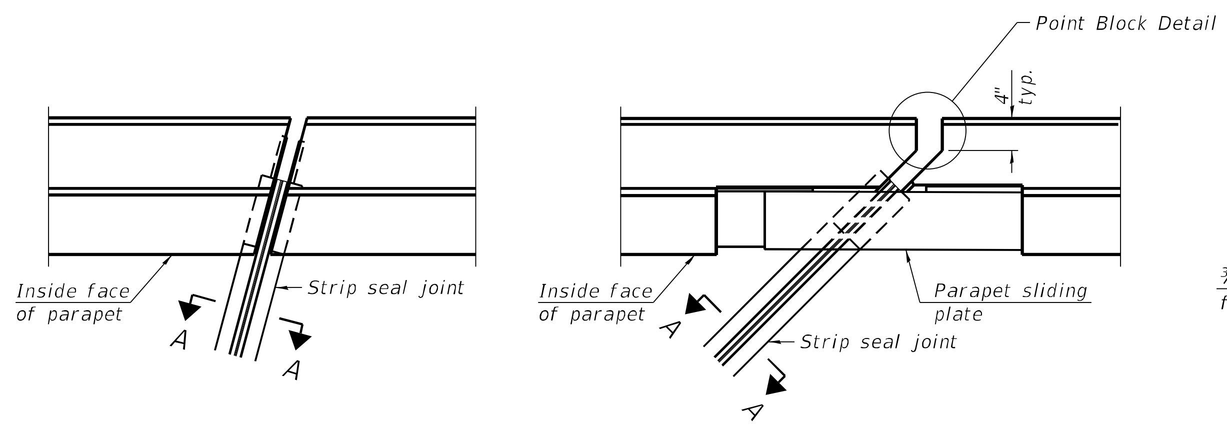
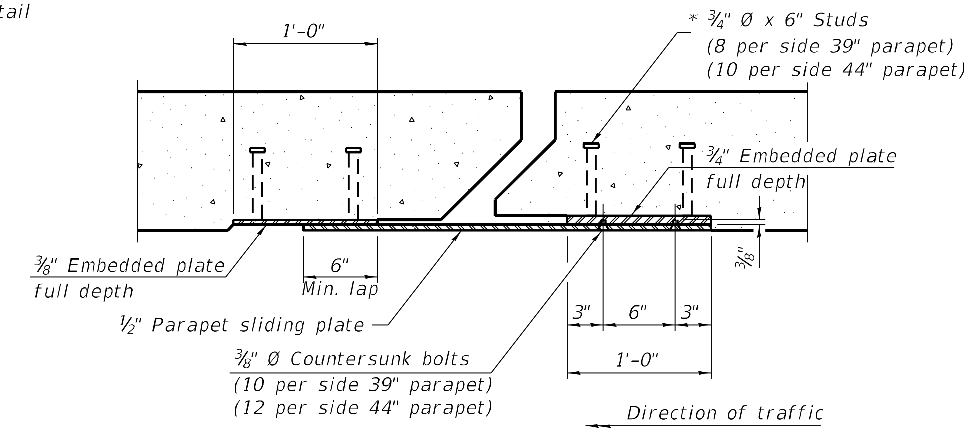
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



FOR SKEWS ≤ 30°

FOR SKEWS > 30°

PLAN AT PARAPET



SECTION B-B

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

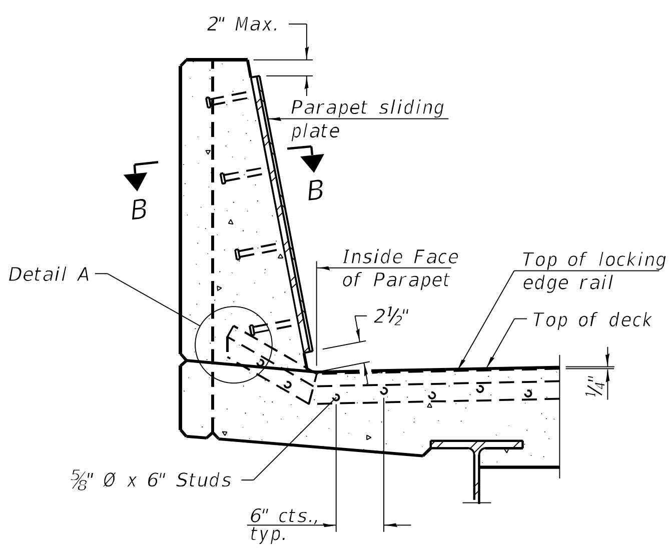
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

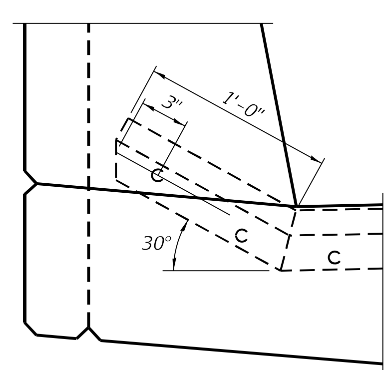
39" constant slope barrier shown, 44" constant slope barrier similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

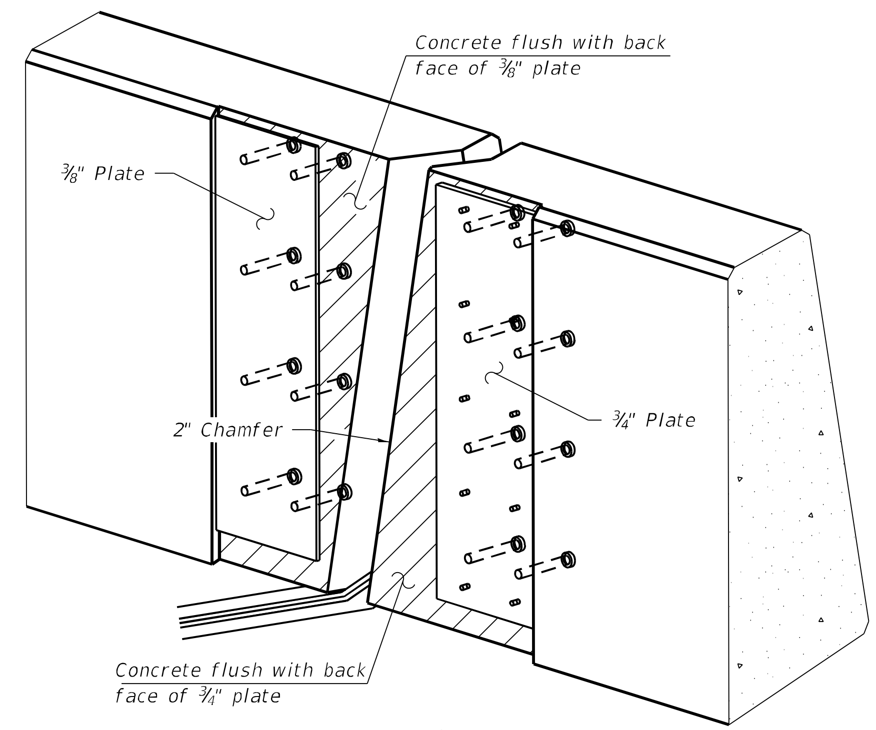


SECTION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

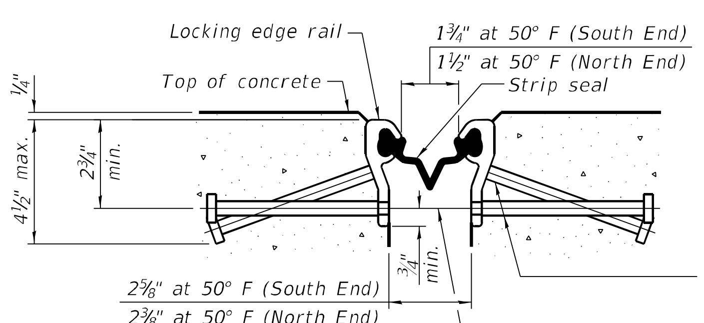


DETAIL A



TRIMETRIC VIEW

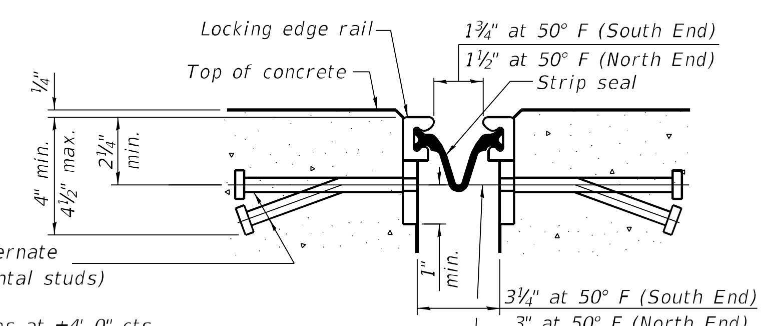
(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

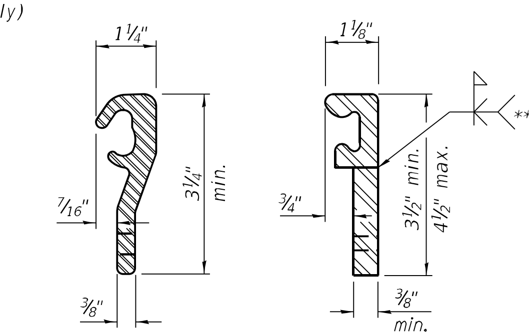
3/8" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

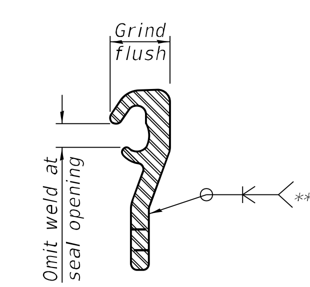


ROLLED (EXTRUDED) RAIL

WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	126

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-2079

SHEET S-28 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	121
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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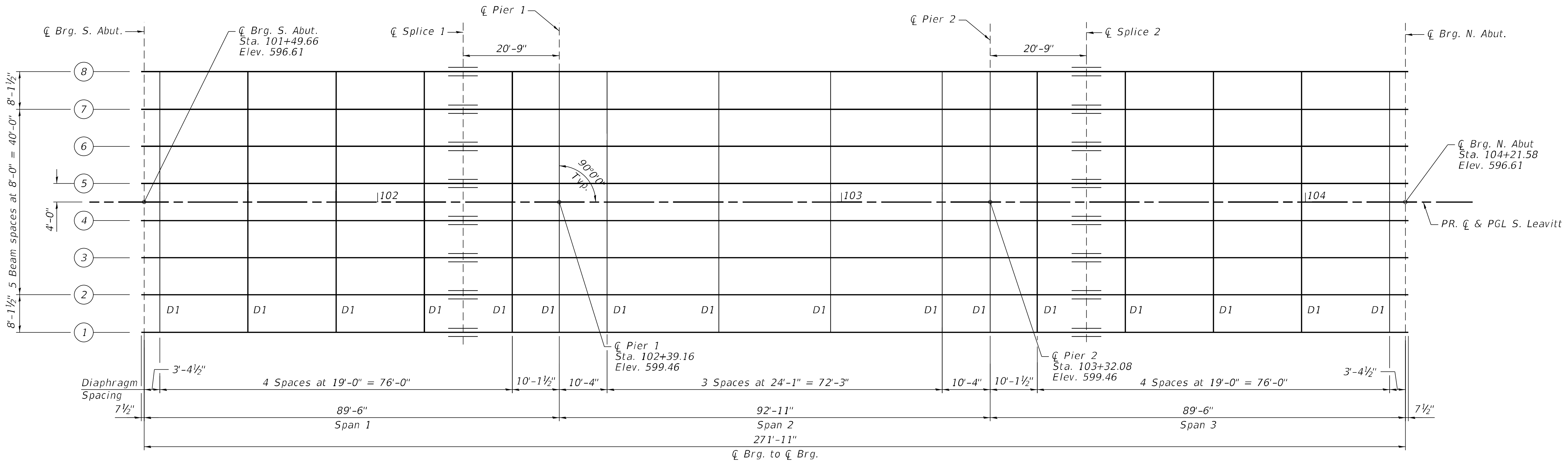
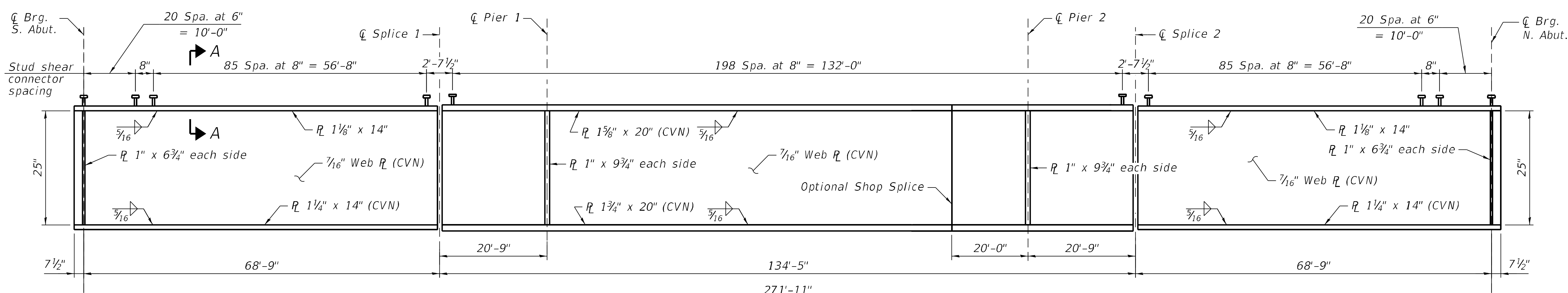
NOTES:

1. Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.
2. See Sheet S-30 for Section A-A.
3. All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor bolts.
4. All girder web and flange plates shall be AASHTO M270, Grade 50.



FRAMING PLAN



GIRDER ELEVATION

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	122
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		ILLINOIS FED. AID PROJECT		

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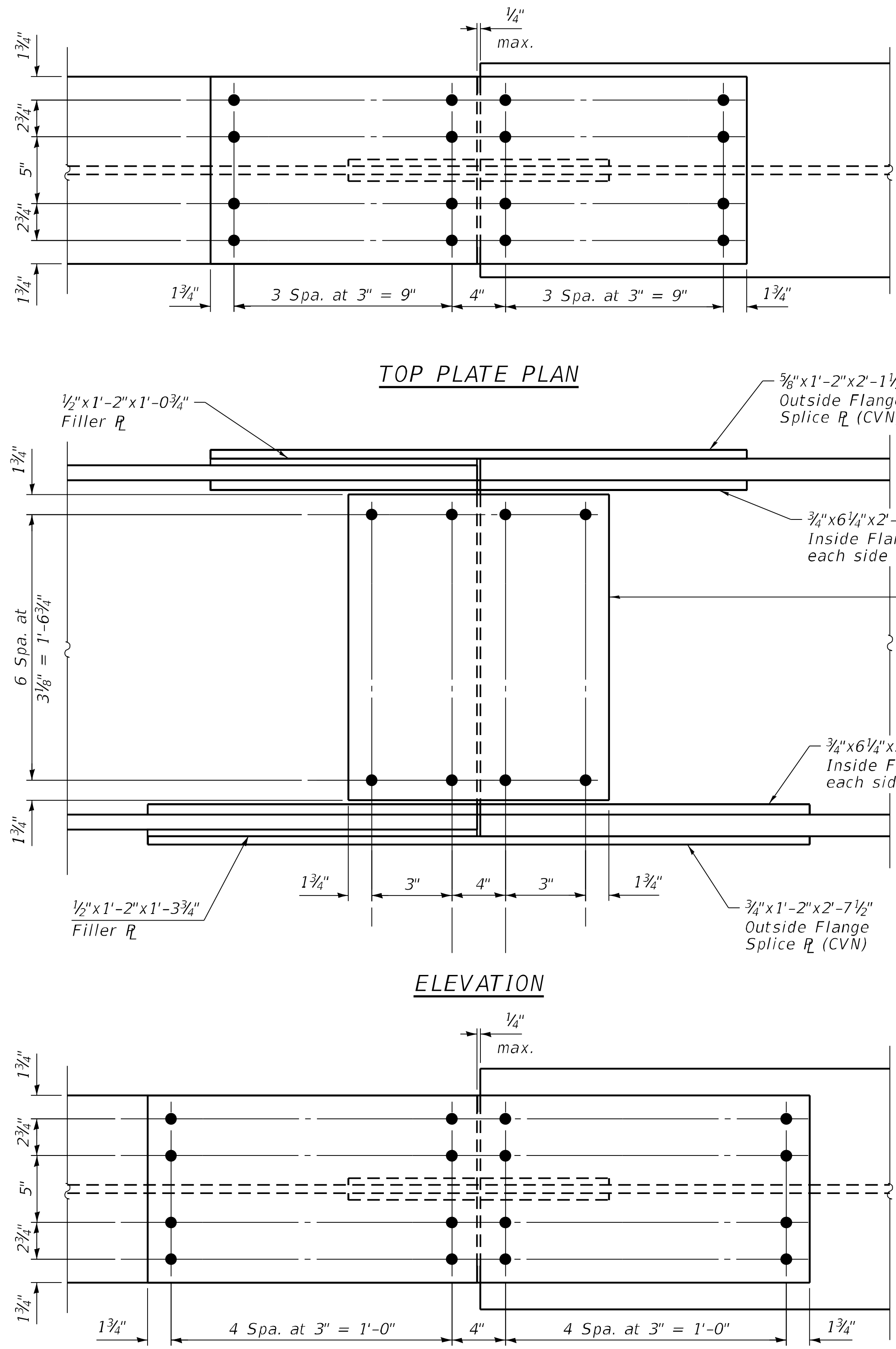
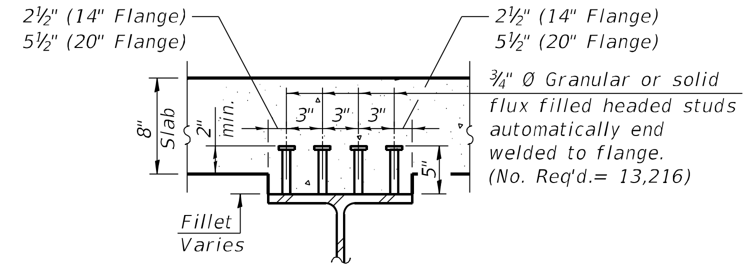


TOP PLATE PLAN

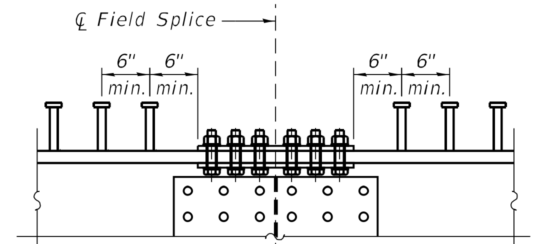
ELEVATION

BOTTOM PLATE PLAN

SPLICE DETAIL
(16 Required)



SECTION A-A

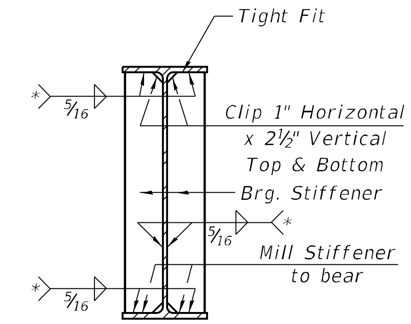


SHEAR CONNECTOR DETAIL AT SPLICES

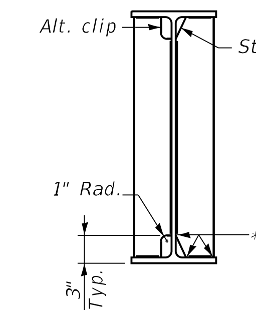
DO NOT place shear connectors on splice plates. Move row of studs to 6" beyond nearest edge of splice plate from measured location.

NOTES:

1. All splice plates, except fill plates, shall be AASHTO M270, Grade 50.
2. Two hardened washers required for each set of oversized holes.
3. Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels, if utilized, shall be provided at no additional cost to the Department.

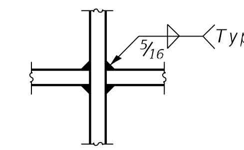


BEARING STIFFENER

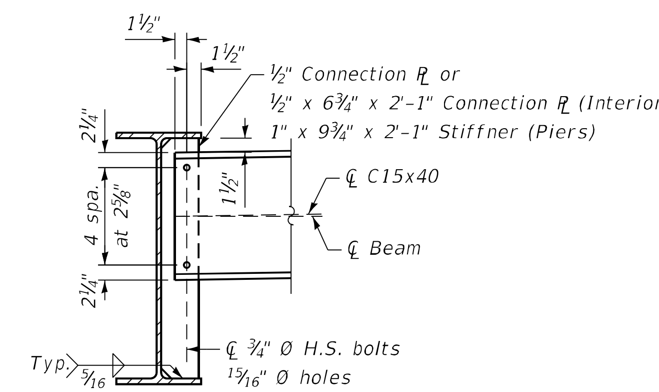


WELD LIMITS AND CLIP DETAILS

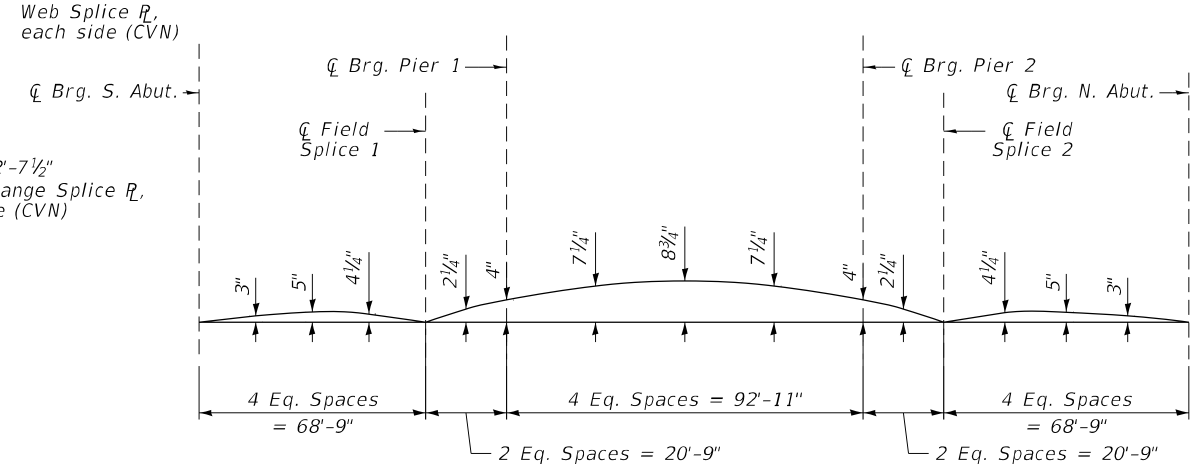
* Stop welds 1/4" (±1/8") from edges as shown. Typ.



WEB WELD DETAIL



D1 DIAPHRAGMS
(112 Thus)



CAMBER DIAGRAM

TOP OF WEB ELEVATIONS
(For Fabrication Only)

Girder	℄ Brg. S. Abut.	℄ F.S. 1	℄ Pier 1	℄ Pier 2	℄ F.S. 2	℄ Brg. N. Abut.
1	596.29	598.77	599.11	599.10	598.77	596.31
2	595.45	597.94	598.27	598.27	597.94	595.47
3	595.57	598.06	598.39	598.39	598.06	595.59
4	595.69	598.18	598.51	598.51	598.18	595.71
5	595.69	598.18	598.51	598.51	598.18	595.71
6	595.57	598.06	598.39	598.39	598.06	595.59
7	595.45	597.94	598.27	598.27	597.94	595.47
8	596.29	598.77	599.11	599.10	598.77	596.31

INTERIOR GIRDER MOMENT TABLE

(Girders 3 to 6)

		0.4 Span 1 or 0.6 Span 3	Pier 1 or Pier 2	0.5 Span 2
I_s	(in^4)	6,263	12,591	12,591
$I_c(n)$	(in^4)	16,966	---	28,405
$I_c(3n)$	(in^4)	12,769	---	20,931
$I_c(cr)$	(in^3)	---	15,136	---
Ss	(in^3)	474	912	912
$S_c(n)$	(in^3)	656	---	1,170
$S_c(3n)$	(in^3)	605	---	1,079
$S_c(cr)$	(in^3)	---	977	---
S_x	(in^3)	599	960	1,154
$DC1$	(k/')	1.00	1.14	1.14
M_{DC1}	('k)	571	999	222
$DC2$	(k/')	0.23	0.23	0.23
M_{DC2}	('k)	136	206	38
DW	(k/')	0.12	0.12	0.12
M_{DW}	('k)	71	108	20
$LLDF$		0.575	0.605	0.602
M_{LL+IM}	('k)	1,042	1,268	1,035
f_l (Strength I)	(ksi)	0	0	0
$M_u + 1/3 f_l S_x$	('k)	2,814	3,887	2,166
$\phi_f M_n$	('k)	3,167	4,660	5,107
f_s $DC1$	(ksi)	14.5	13.1	2.9
f_s $DC2$	(ksi)	2.7	2.5	0.4
f_s DW	(ksi)	1.4	1.3	0.2
f_s $LL+IM$	(ksi)	19.1	15.6	10.6
$f_s + f_l/2$ (Service II)	(ksi)	43.3	37.3	17.4
Service II Resistance	(ksi)	47.5	47.5	47.5
$f_s + f_l/3$ (Total)(Strength I)	(ksi)	---	---	---
ϕF_{fn}	(ksi)	---	---	---
V_f	(k)	55.1	---	64.5
Δ_{LL+IM}	(in)	0.91	---	0.59
Δ_{ALLOW}	(in)	1.07	---	1.12

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s(Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections, due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

S_x : Section modulus about the major axis of section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange ($in.^3$).

$DC1$: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

$DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$LLDF$: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2. and further IDOT provisions.

M_{LL+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u: Stength I load combination of factored design moments (kip-ft.). $1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{LL+IM}$

f_l : Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi)

GIRDER 2 MOMENT TABLE

		0.4 Span 1 or 0.6 Span 3	Pier 1 or Pier 2	0.5 Span 2
I_s	(in^4)	6,263	12,591	12,591
$I_c(n)$	(in^4)	16,994	---	28,461
$I_c(3n)$	(in^4)	12,798	---	20,977
$I_c(cr)$	(in^3)	---	15,155	---
Ss	(in^3)	474	830	830
$S_c(n)$	(in^3)	656	---	1,171
$S_c(3n)$	(in^3)	606	---	1,080
$S_c(cr)$	(in^3)	---	977	---
S_x	(in^3)	587	925	1,145
$DC1$	(k/')	1.46	1.60	1.60
M_{DC1}	('k)	708	1,232	253
$DC2$	(k/')	0.23	0.23	0.23
M_{DC2}	('k)	136	208	38
DW	(k/')	0.12	0.12	0.12
M_{DW}	('k)	71	109	20
$LLDF$ **		0.308	0.308	0.308
M_{LL+IM} ***	('k)	802	991	751
f_l (Strength I)	(ksi)	0	0	0
$M_u + 1/3 f_l S_x$	('k)	2,565	3,698	1,708
$\phi_f M_n$	('k)	3,083	4,639	5,115
f_s $DC1$	(ksi)	17.9	17.6	3.7
f_s $DC2$	(ksi)	2.7	2.5	0.4
f_s DW	(ksi)	1.4	1.3	0.2
f_s $LL+IM$	(ksi)	14.7	12.1	7.7
$f_s + f_l/2$ (Service II)	(ksi)	41.1	37.2	14.3
Service II Resistance	(ksi)	47.5	47.5	47.5
$f_s + f_l/3$ (Total)(Strength I)	(ksi)	---	---	---
ϕF_{fn}	(ksi)	---	---	---
V_f	(k)	32.7	---	38.3
Δ_{LL+IM}	(in)	0.91	---	0.59
Δ_{ALLOW}	(in)	1.07	---	1.12

$\phi_f M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 applicable (kip-ft)

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

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

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

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

$f_s + f_l/2$ (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3\ f_s(LL+IM) + f_l/2$

Service II Resistance: Composite ($0.95 R_h F_{yf}$) or noncomposite ($0.80 R_h F_{yf}$) stress capacity according to Article 6.10.4.2 (ksi).

$f_s + f_l/3$ (Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (f_{sDC1} + f_{sDC2}) + 1.5\ f_{sDW} + 1.75\ f_s(LL+IM) + f_l/3$

$\phi_f F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).

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

OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.

Δ_{LL+IM} : Calculated value Service I live load plus impact deflection.

Δ_{ALLOW}: Maximum allowable Service I live load plus impact deflection according to AASHTO LRFD Bridge Design Specifications 2.5.2.6.2.

INTERIOR GIRDER REACTION TABLE

(Girders 3 to 6)

		South or North Abutment	Pier 1 or 2
$LLDF$		0.814	0.814
OCF		---	---
R_{DC1}	(k)	* 73.5	111.4
R_{DC2}	(k)	7.9	23.0
R_{DW}	(k)	7.7	12.1
R_{LL}	(k)	77.4	126.5
R_{Im}	(k)	16.7	28.4
$R_{Total\ (Strength\ I)\ (No\ Impact)}$	(k)	248.8	407.5
$R_{Total\ (Strength\ I)\ (Impact)}$	(k)	278.0	457.1

GIRDER 2 REACTION TABLE

		South or North Abutment	Pier 1 or 2
$LLDF$ **		0.337	0.337
OCF		---	---
R_{DC1}	(k)	* 81.5	135.2
R_{DC2}	(k)	7.9	23.0
R_{DW}	(k)	7.7	12.1
R_{LL} ***	(k)	43.0	89.5
R_{Im}	(k)	6.9	10.5
$R_{Total\ (Strength\ I)\ (No\ Impact)}$	(k)	198.5	372.6
$R_{Total\ (Strength\ I)\ (Impact)}$	(k)	210.6	390.9

* Includes tributary weight of cast-in-place diaphragm and contributing portion of approach slab.

** Determined through FEM analysis.

*** Includes sidewalk loading

R_{DC1}: Un-factored reaction due to non-composite dead load (kip).

R_{DC2}: Un-factored reaction due to long-term composite(superimposed excluding future wearing surface) dead load (kip).

R_{DW} : Un-factored reaction due to long-term composite(superimposed future wearing surface) dead load (kip).

R_{LL} : Un-factored live load reaction (kip).

R_{IM} : Un-factored dynamic load allowance (impact) (kip).

R_{Total} (Strength I)(Impact) : Strength I load combination of factored design reactions (kip). $1.25\ (R_{DC1} + R_{DC2}) + 1.5\ R_{DW} + 1.75\ R_{LL+IM}$

R_{Total} (Strength I)(No Impact) : Strength I load combination of factored design reactions, not including dynamic load allowance (Impact) (kip). $1.25\ (R_{DC1} + R_{DC2}) + 1.5\ R_{DW} + 1.75\ R_{LL}$

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER MOMENT AND REACTION TABLES
STRUCTURE NO. 016-2079

SHEET S-31 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

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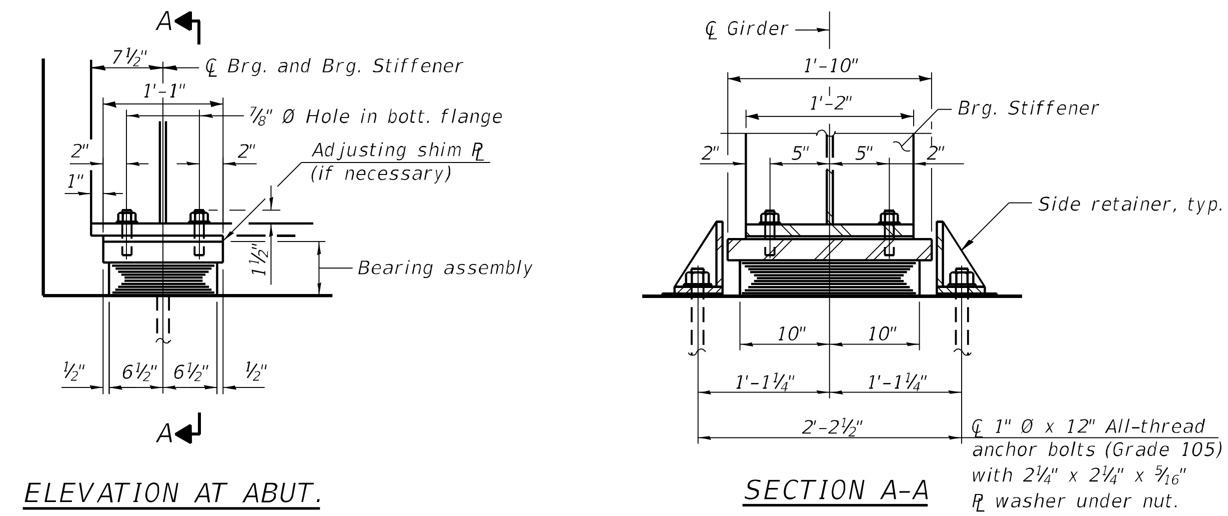
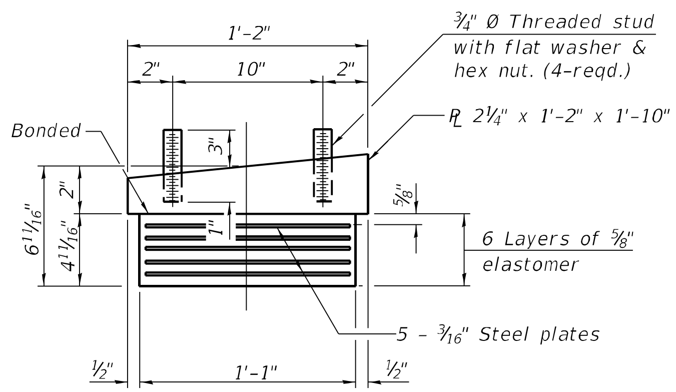


ELEVATION AT ABUT.

SECTION A-A

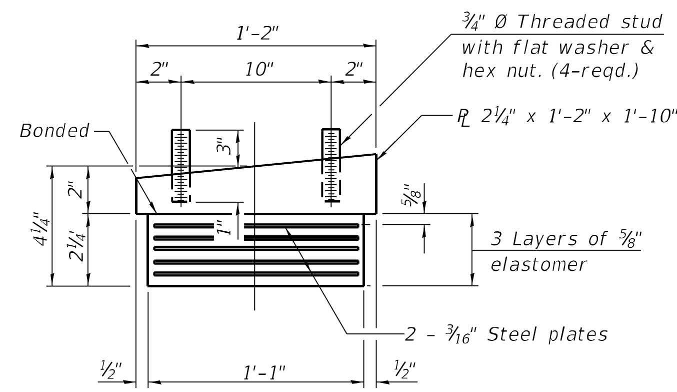
TYPE I ELASTOMERIC EXP. BRG.

(Abutment, typ.)



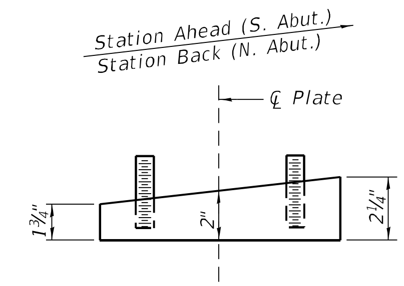
BEARING ASSEMBLY

(South Abutment)



BEARING ASSEMBLY

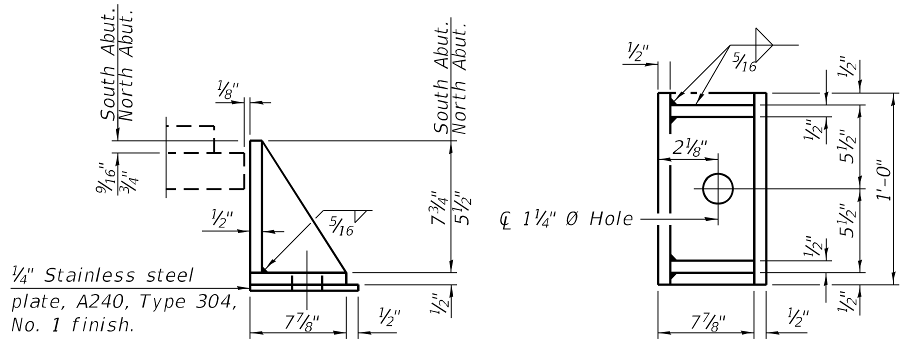
(North Abutment)



TAPERED PLATE DETAIL

NOTES

1. Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
2. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
3. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
4. All bearing plates, side retainers, shim plates, anchor bolts, nuts and washers shall be galvanized according to AASHTO M111 or M232 as applicable.
5. Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



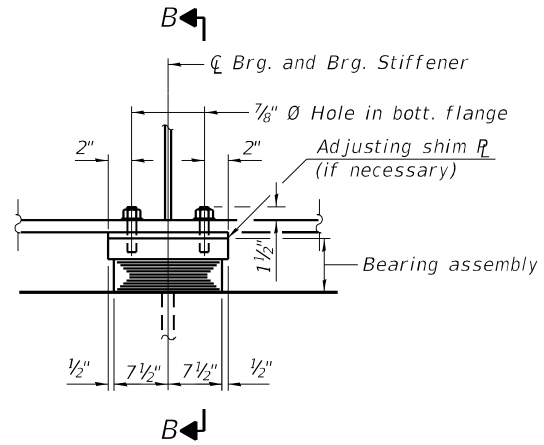
SIDE RETAINER

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

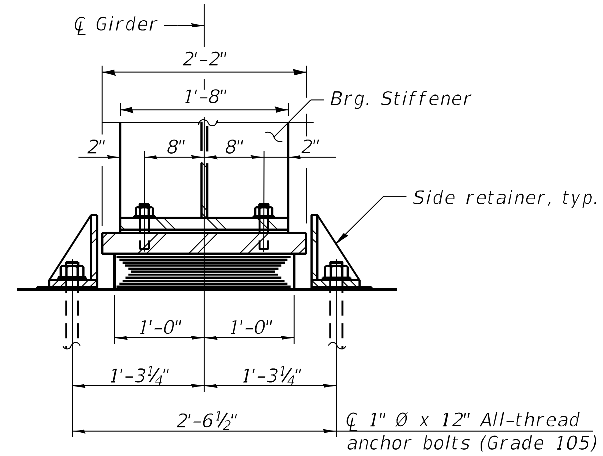
(Abutment, typ.)

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	16
Anchor Bolts, 1"	Each	32



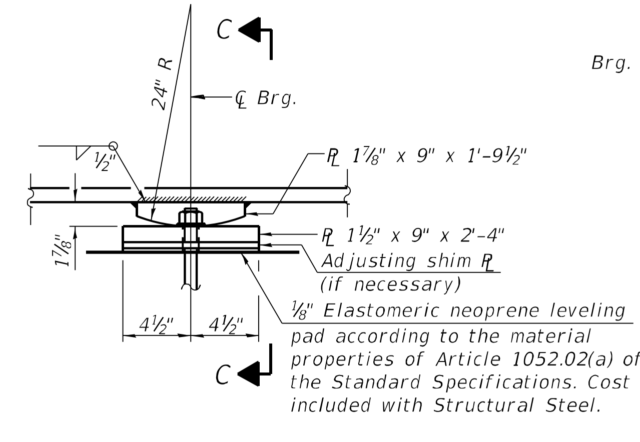
ELEVATION AT PIER 1



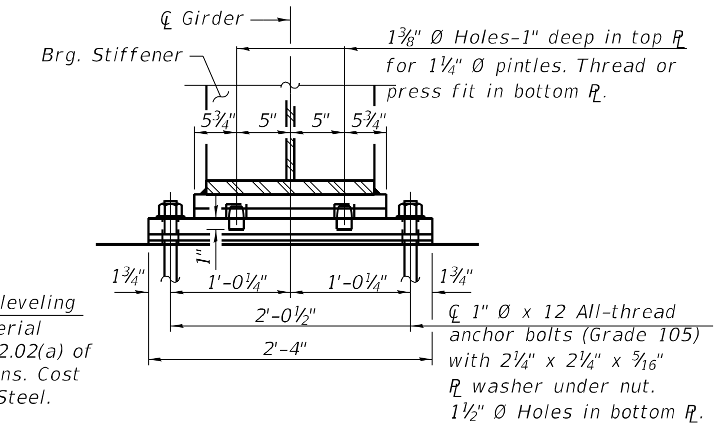
SECTION B-B

TYPE I ELASTOMERIC EXP. BRG.

(Pier 1)



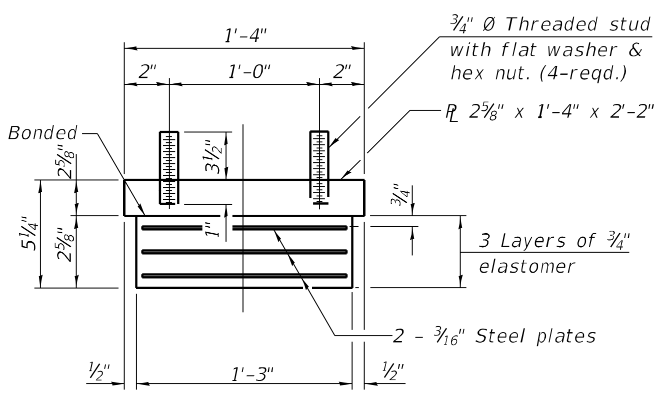
ELEVATION AT PIER 2



SECTION C-C

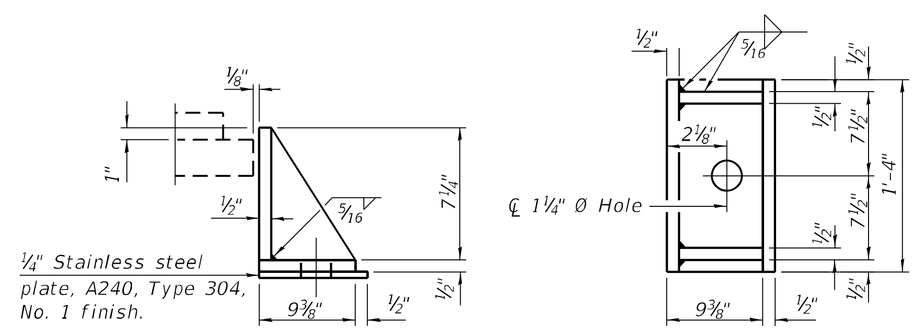
FIXED BEARING

(Pier 2)



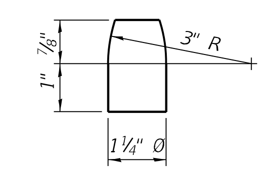
BEARING ASSEMBLY

(Pier 1)



SIDE RETAINER

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



PINTLE

NOTES

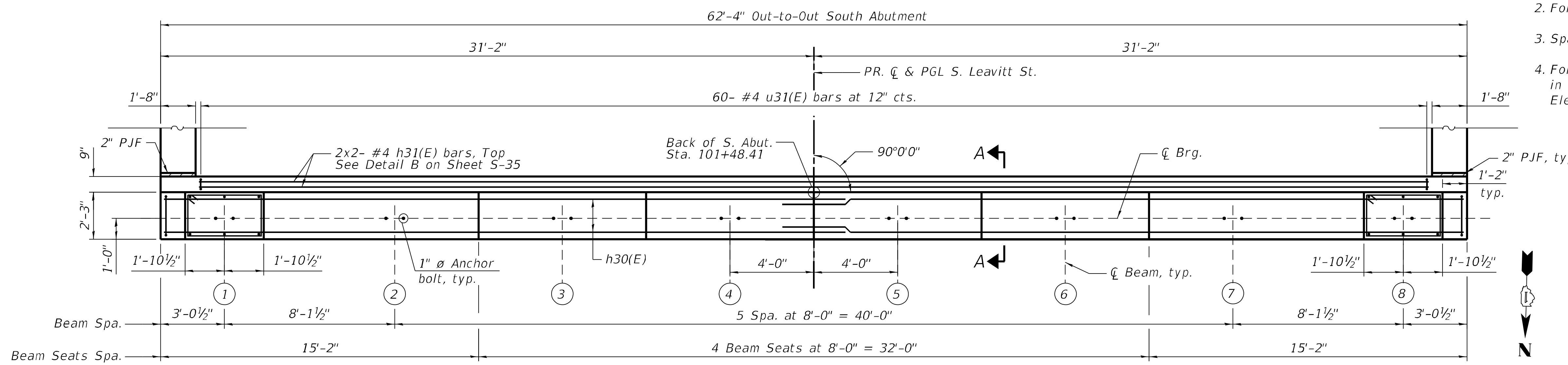
1. Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
2. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
3. All bearing plates, side retainers, shim plates, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
4. Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
5. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
6. Cost of steel plates for Fixed Bearings shall be included with Furnishing and Erecting Structural Steel.

BILL OF MATERIAL

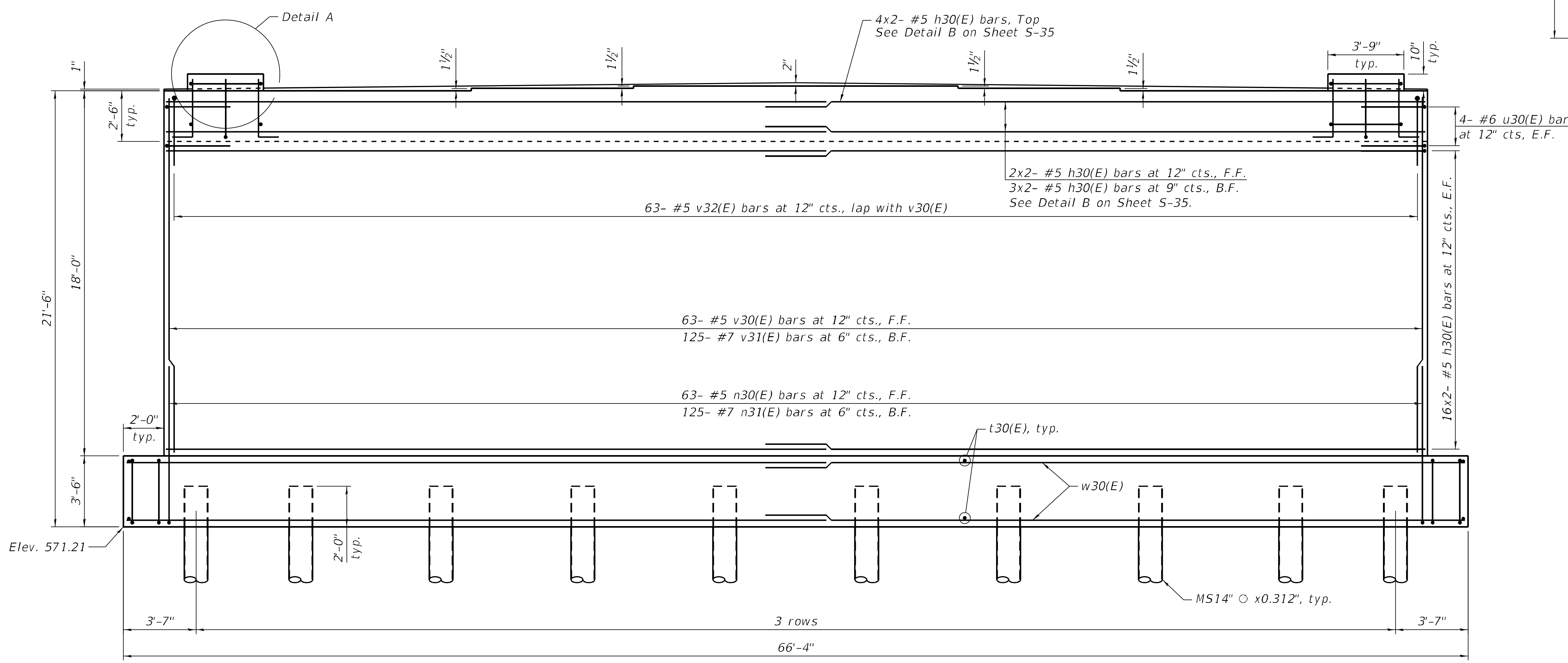
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	8
Anchor Bolts, 1"	Each	32

NOTES:

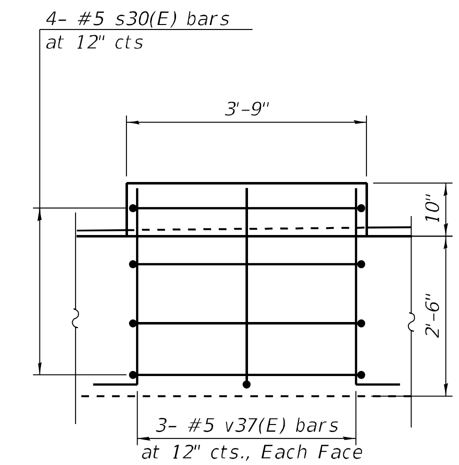
1. For foundation plan, Section A-A, Detail B, bar diagrams, Bill of Material and details, see sheet S-35.
2. For Wingwalls elevation and sections, see sheet S-36.
3. Space reinforcement to miss anchor bolts.
4. For the conduits attached to structure and embedded in structure quantities and details, see Civil and Electrical plans.



PLAN



ELEVATION
(Looking South)



DETAIL A

SEATS ELEVATIONS

Beam	Elev.
1	593.54
2	592.71
3	592.83
4	592.95
5	592.95
6	592.83
7	592.71
8	593.54

MINIMUM BAR LAP

#4 = 2'-7"
#5 = 3'-2"
#6 = 3'-10"
#7 = 4'-5"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 016-2079

SHEET S-34 OF S-47 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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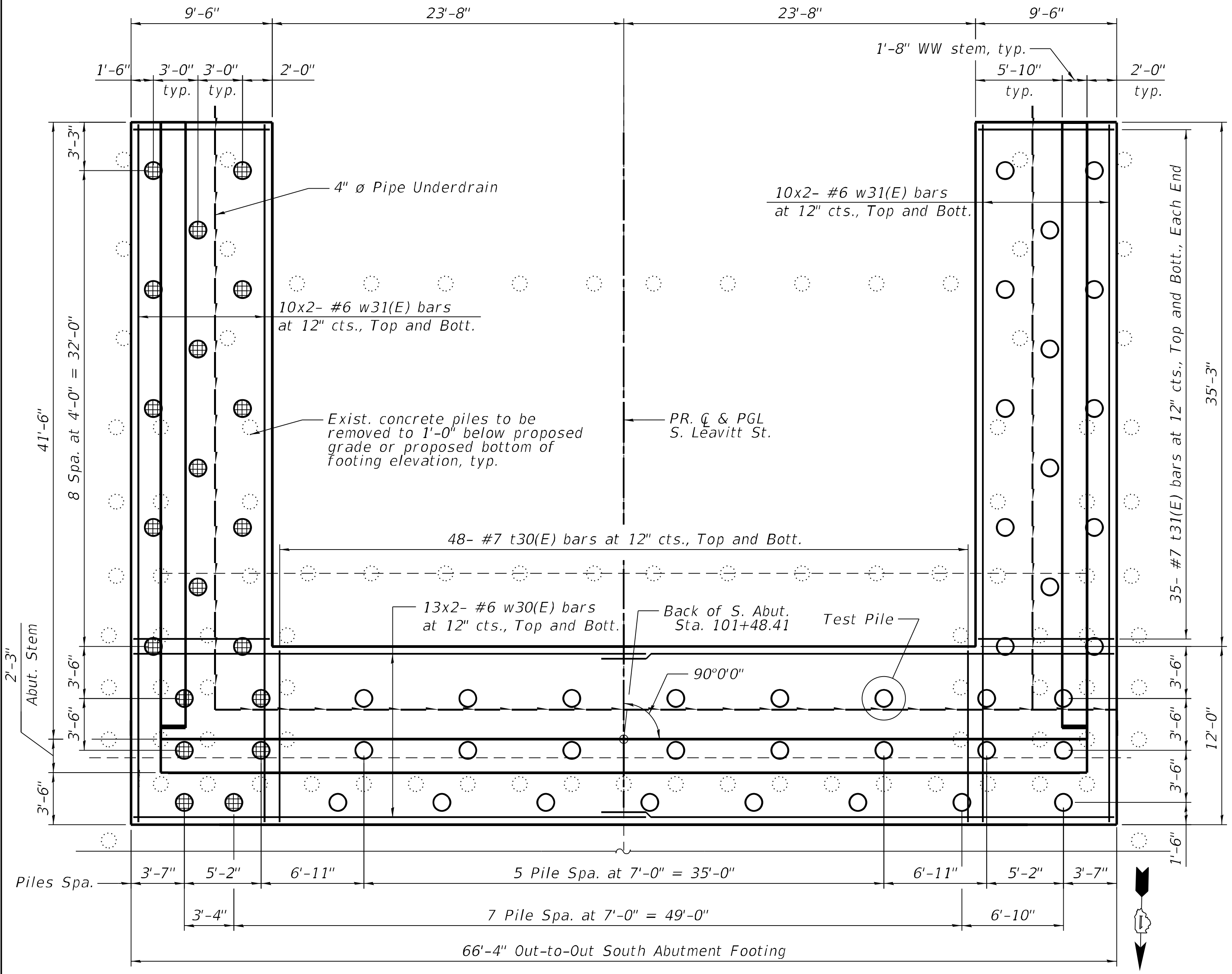
NOTES:

1. For drainage details, see sheet S-02.
2. Any proposed pile that must be shifted more than 6" as discussed in Standard Specifications 512.12 to avoid interference with existing piles, with due consideration of batter, shall be reported to the Engineer of Record for disposition prior to driving.
3. For Wingwalls elevations and sections, see Sheet S-36.
4. Wingwalls reinforcement is included in the Bill of Material.



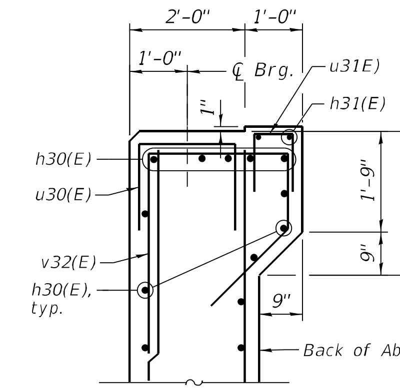
FOUNDATION PLAN

LEGEND

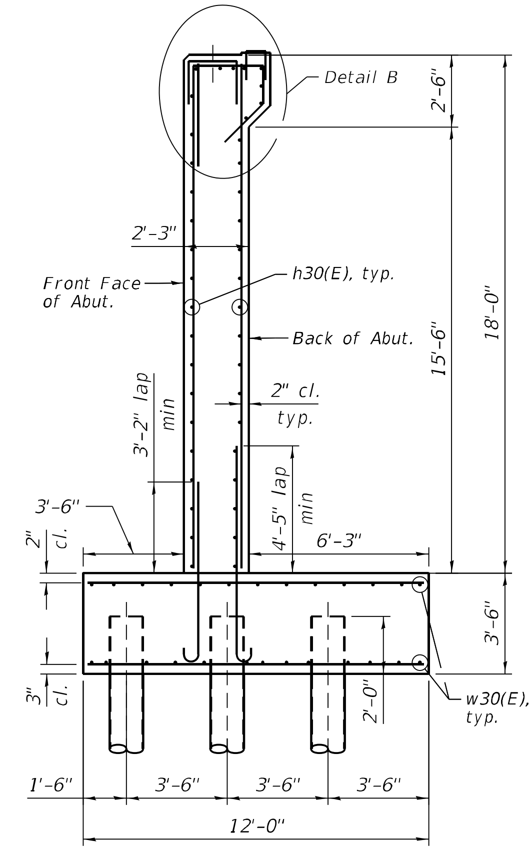
◯ Regular driven pile

⊕ * Pre-core driven pile

* Piles shall be driven through 30" diameter precored holes extended to elevation 566.21 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.



DETAIL B



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h30(E)	82	#5	32'-7"	——
h31(E)	4	#4	32'-4"	——
h32(E)	168	#5	22'-6"	——
h33(E)	28	#5	11'-3"	——
n30(E)	149	#5	7'-0"	⊃
n31(E)	125	#7	8'-6"	⊃
n32(E)	168	#8	9'-3"	⊃
u30(E)	8	#6	9'-0"	⊓
u31(E)	60	#4	3'-9"	⊓
s30(E)	8	#5	11'-7"	▭
v30(E)	63	#5	17'-9"	——
v31(E)	125	#7	17'-9"	——
v32(E)	63	#5	9'-7"	◸
v33(E)	30	#5	37'-9"	——
v34(E)	60	#8	37'-9"	——
v35(E)	2	#5	15'-3"	——
v36(E)	2	#8	15'-3"	——
v37(E)	12	#5	4'-2"	L
v38(E)	12	#5	48'-0"	——
v39(E)	24	#8	48'-0"	——
t30(E)	96	#7	11'-8"	——
t31(E)	140	#7	9'-2"	——
w30(E)	52	#6	34'-11"	——
w31(E)	80	#6	25'-4"	——

Concrete Structures	Cu Yd	394.5
Reinforcement Bars, Epoxy Coated	Pound	43,000
Furnishing Metal Shell Piles 14" X 0.312"	Foot	2,784
Driving Piles	Foot	2,668
Test Pile Metal Shells	Each	1
Pile Shoes	Each	58
Concrete Sealer	Sq Ft	3,104
Geocomposite Wall Drain	Sq Yd	321
Pipe Underdrains For Structures 4"	Foot	146

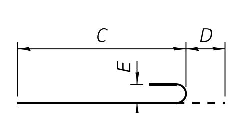
PILE DATA

REGULAR

Type: Metal Shell 14"x0.312" w/ Pile Shoes
Nominal Required Bearing: 570 kips
Factored Resistance Available: 313 kips
Estimated Length: 46'
No. Production Piles: 23 (Abutment) and 14 (Wingwalls)
No. Test Piles: 1

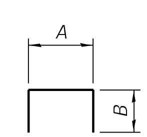
WITH PRE-CORING

Type: Metal Shell 14"x0.312" w/ Pile Shoes
Nominal Required Bearing: 570 kips
Factored Resistance Available: 268 kips
Estimated Length: 46'
No. Production Piles: 6 (Abutment) and 14 (Wingwalls)
No. Test Piles: 0



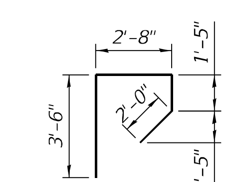
BARS n30(E) thru n32(E)

Bars	C	D	E
n30(E)	6'-5"	7"	5"
n31(E)	7'-8"	10"	7"
n32(E)	8'-4"	11"	8"

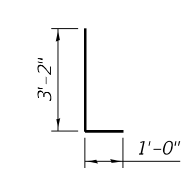


BARS u30(E) or u31(E)

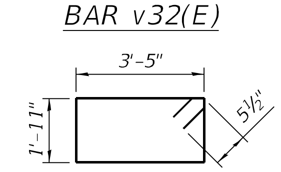
Bars	A	B
u30(E)	2'-8"	3'-2"
u31(E)	9"	1'-6"



BAR v32(E)



BAR v37(E)



BAR s30(E)

MINIMUM BAR LAP

#5 = 3'-2"
#6 = 3'-10"
#7 = 4'-5"
#8 = 5'-1"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT FOUNDATION PLAN AND SECTIONS
STRUCTURE NO. 016-2079

SHEET S-35 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	128
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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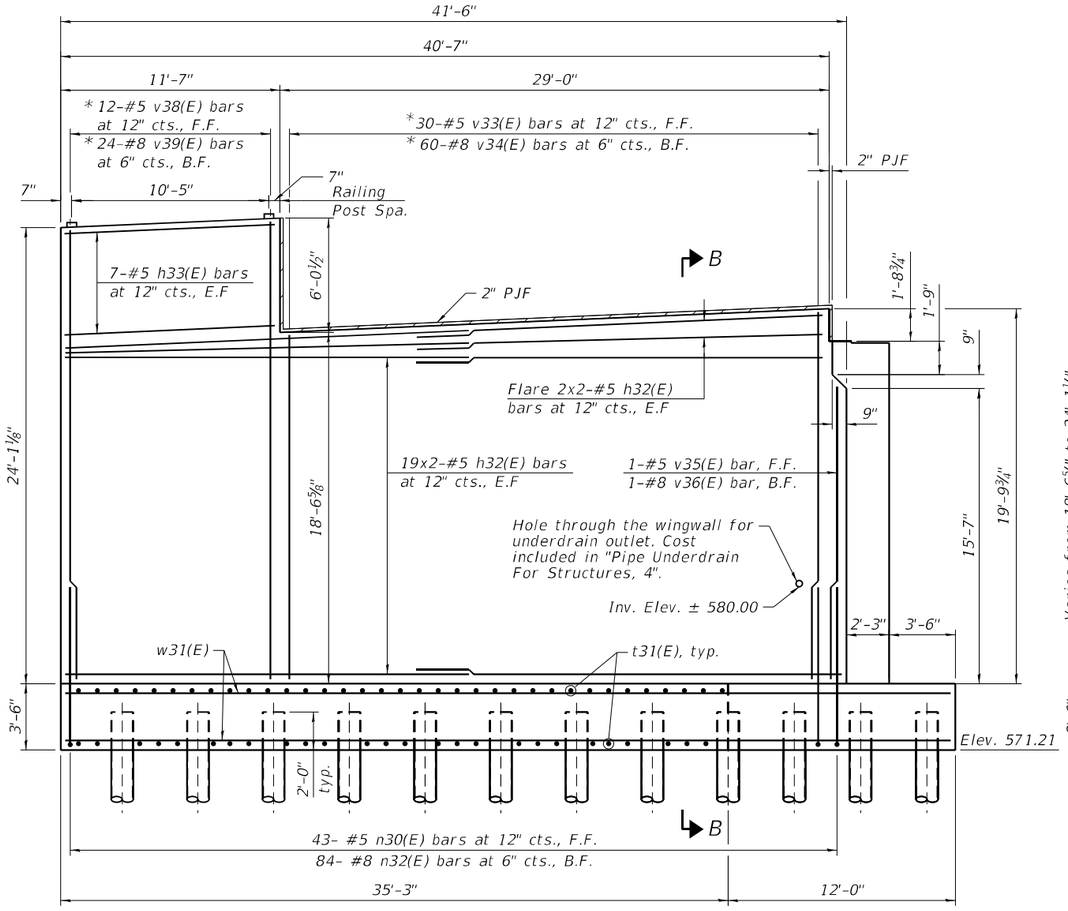
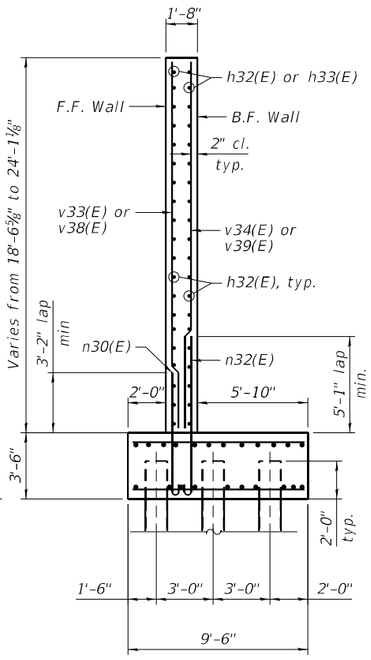


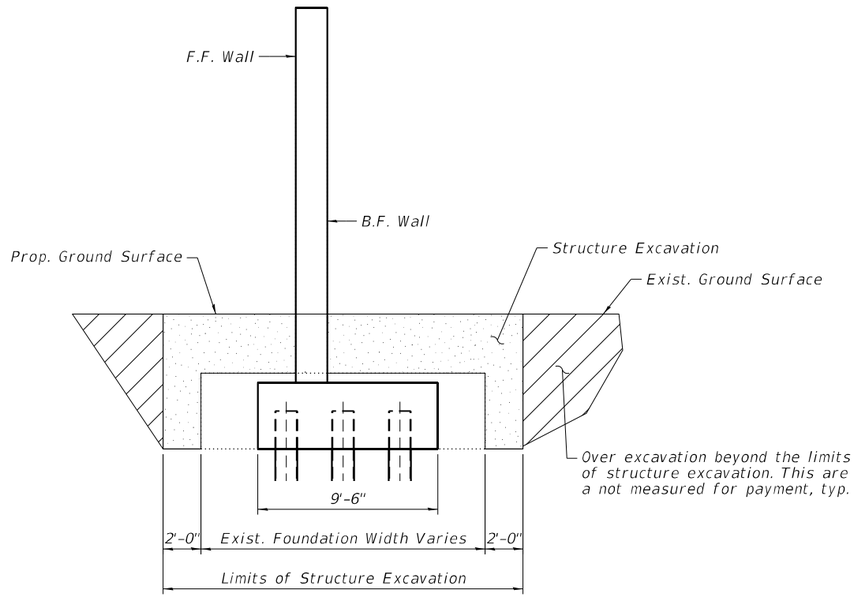
WINGWALL ELEVATION

(SE wingwall shown. SE wingwall similar- opposite hand)

*See cutting diagram



SECTION B-B



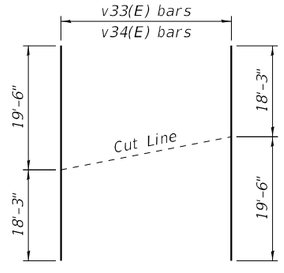
WINGWALL EXCAVATION

NOTES:

1. For bar diagrams, see Sheet S-35.
2. Wingwalls reinforcement is included in the Bill of Material on Sheet S-35.

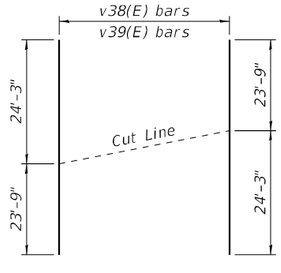
MINIMUM BAR LAP

#5 bar = 3'-2"
#6 bar = 3'-10"
#7 bar = 4'-5"
#8 bar = 5'-1"



FIELD CUTTING DIAGRAM

Order v33(E) and v34(E) bars full length.
Cut as shown and use remainder of bars in opposite end of wingwall.



FIELD CUTTING DIAGRAM

Order v38(E) and v39(E) bars full length.
Cut as shown and use remainder of bars in opposite end of wingwall.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT WINGWALLS
STRUCTURE NO. 016-2079
SHEET S-36 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

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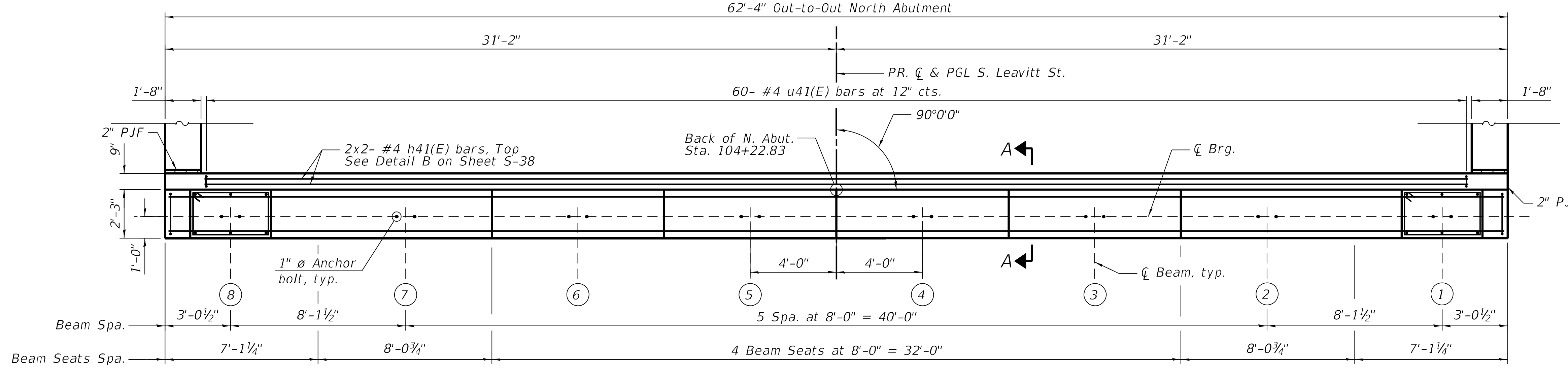
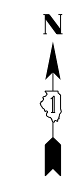
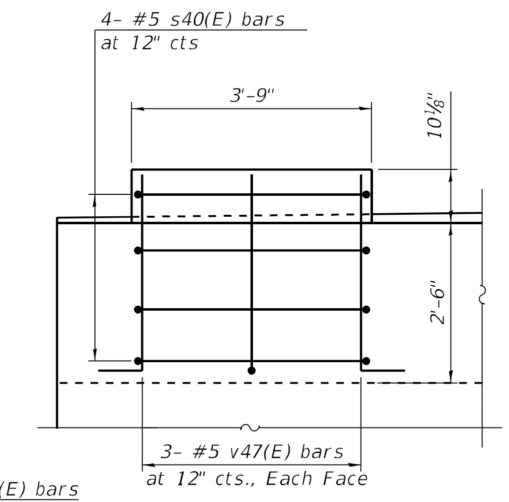
NOTES:

1. For foundation plan, Section A-A, Detail B, bar diagrams, Bill of Material and details, see Sheet S-38.
2. For Wingwalls elevation and sections, see Sheet S-39.
3. Space reinforcement to miss anchor bolts.
4. For the conduits attached to structure and embedded in structure quantities and details, see Civil and Electrical plans.

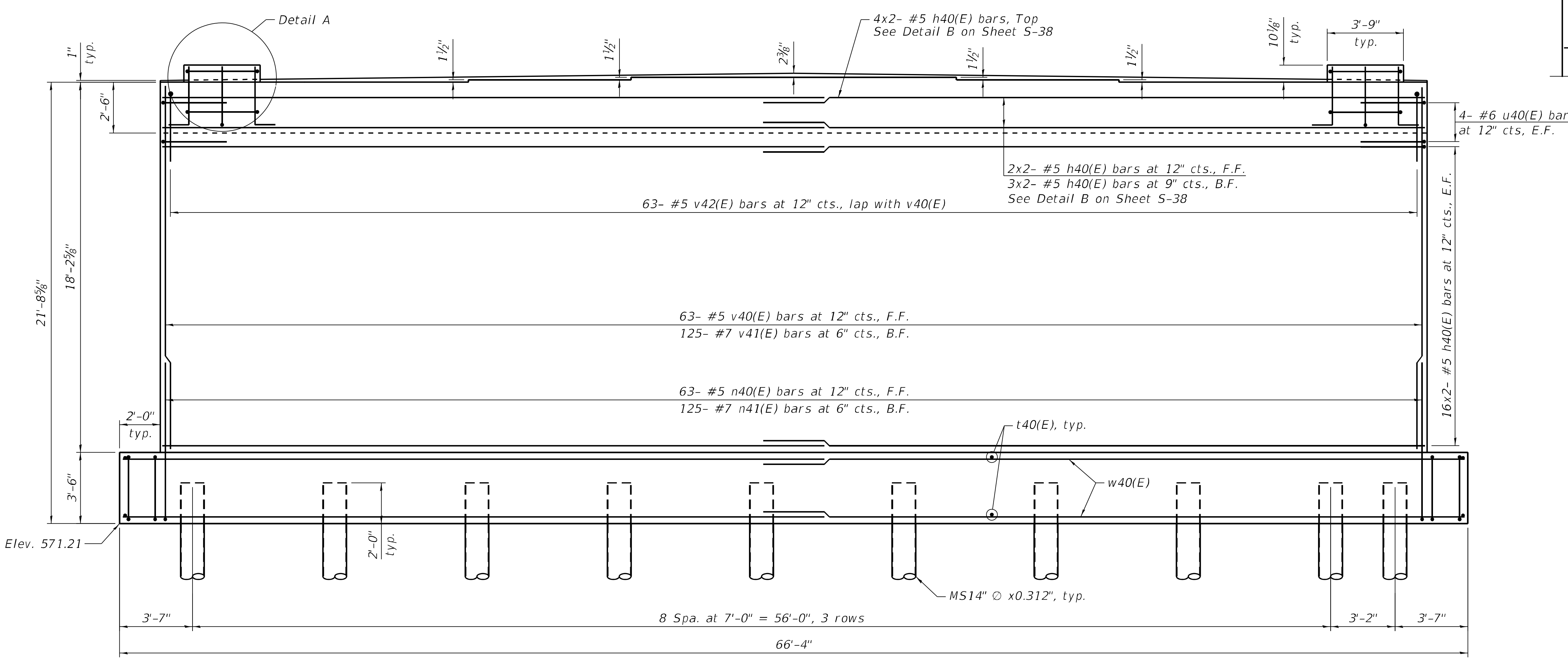


PLAN





DETAIL A



ELEVATION
(Looking North)

SEATS ELEVATIONS

Beam	Elev.
1	593.77
2	592.93
3	593.05
4	593.17
5	593.17
6	593.05
7	592.93
8	593.77

MINIMUM BAR LAP

#4 = 2'-7"
#5 = 3'-2"
#6 = 3'-10"
#7 = 4'-5"

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT PLAN AND ELEVATION
STRUCTURE NO. 016-2079

SHEET S-37 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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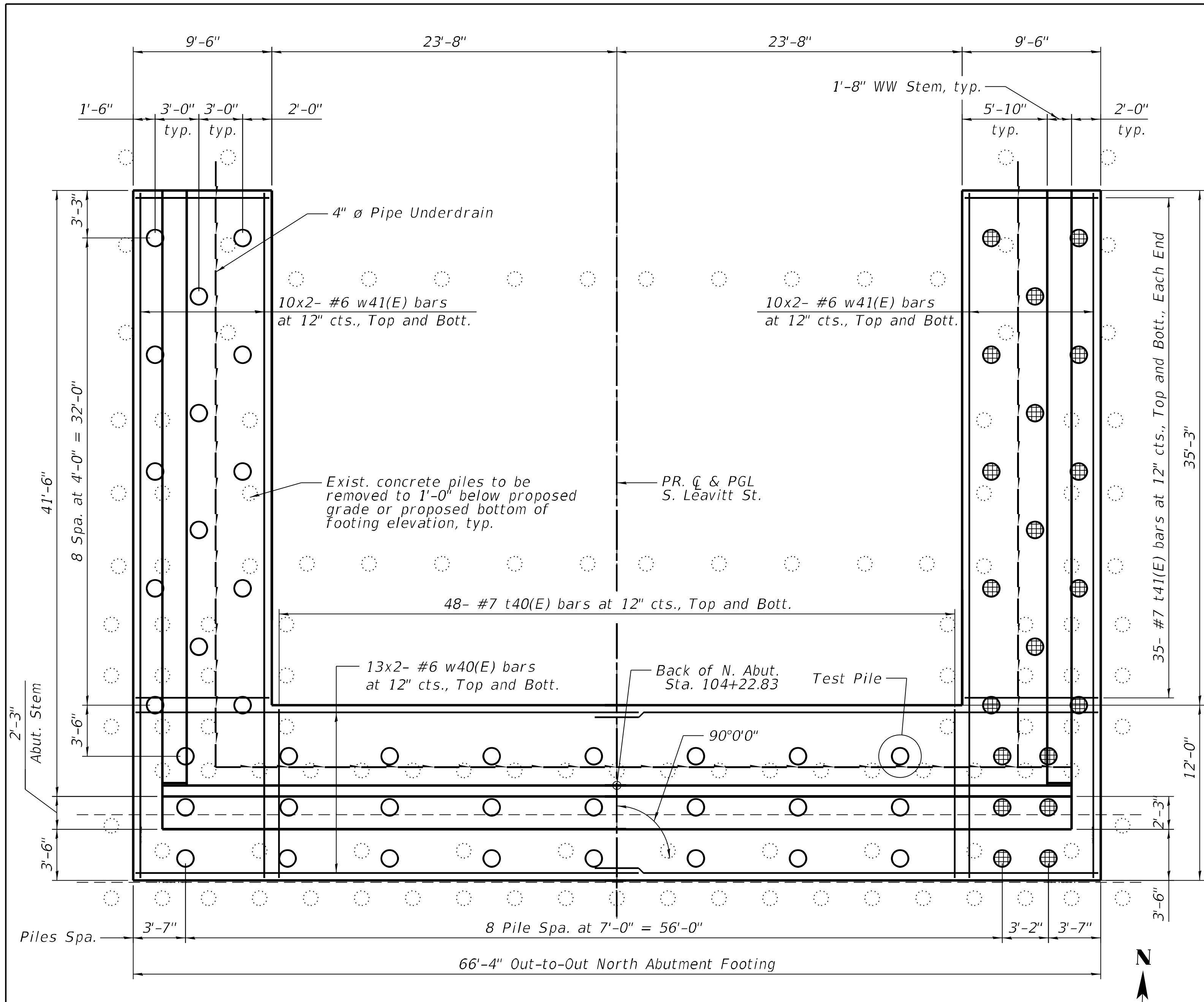
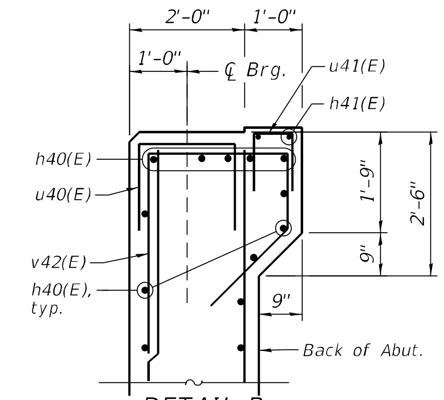
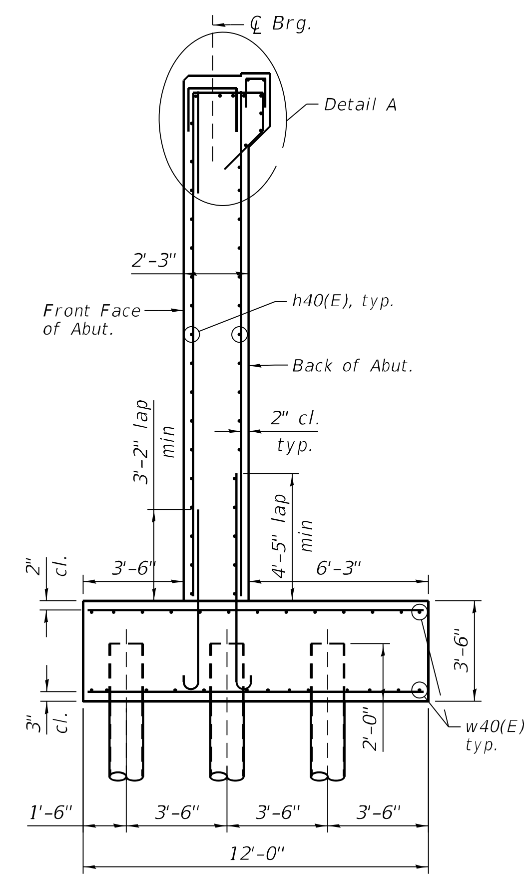


FOUNDATION PLAN



DETAIL B



SECTION A-A

NOTES:

1. For drainage details, see sheet S-02.
2. Any proposed pile that must be shifted more than 6" as discussed in Standard Specifications 512.12 to avoid interference with existing piles, with due consideration of batter, shall be reported to the Engineer of Record for disposition prior to driving.
3. For Wingwalls elevations and sections, see Sheet S-39.
4. Wingwalls reinforcement is included in the Bill of Material.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h40(E)	82	#5	32'-7"	straight
h41(E)	4	#4	32'-4"	straight
h42(E)	168	#5	22'-6"	straight
h43(E)	28	#5	11'-3"	straight
n40(E)	149	#5	7'-0"	hooked
n41(E)	125	#7	8'-6"	hooked
n42(E)	168	#8	9'-3"	hooked
u40(E)	8	#6	9'-0"	U
u41(E)	60	#4	3'-9"	U
s40(E)	8	#5	11'-7"	stirrup
v40(E)	63	#5	17'-9"	straight
v41(E)	125	#7	17'-9"	straight
v42(E)	63	#5	9'-7"	bent
v43(E)	30	#5	38'-4"	straight
v44(E)	60	#8	38'-4"	straight
v45(E)	2	#5	15'-3"	straight
v46(E)	2	#8	15'-3"	straight
v47(E)	12	#5	4'-2"	straight
v48(E)	12	#5	48'-3"	straight
v49(E)	24	#8	48'-3"	L
t40(E)	96	#7	11'-8"	straight
t41(E)	140	#7	9'-2"	straight
w40(E)	52	#6	34'-11"	straight
w41(E)	80	#6	25'-4"	straight

Item	Unit	Quantity
Concrete Structures	Cu Yd	395.4
Reinforcement Bars, Epoxy Coated	Pound	43,130
Furnishing Metal Shell Piles 14" X 0.312"	Foot	3,712
Driving Piles	Foot	3,596
Test Pile Metal Shells	Each	1
Pile Shoes	Each	58
Concrete Sealer	Sq Ft	3,104
Geocomposite Wall Drain	Sq Yd	321
Pipe Underdrains For Structures 4"	Foot	146

PILE DATA

REGULAR

Type: Metal Shell 14"x0.312" w/ Pile Shoes
Nominal Required Bearing: 570 kips
Factored Resistance Available: 313 kips
Estimated Length: 62'
No. Production Piles: 23 (Abutment) and 14 (Wingwalls)
No. Test Piles: 1

WITH PRE-CORING

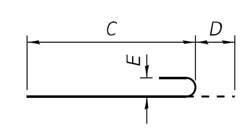
Type: Metal Shell 14"x0.312" w/ Pile Shoes
Nominal Required Bearing: 570 kips
Factored Resistance Available: 268 kips
Estimated Length: 62'
No. Production Piles: 6 (Abutment) and 14 (Wingwalls)
No. Test Piles: 0

* Piles shall be driven through 30" diameter precored holes extended to elevation 566.21 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

LEGEND

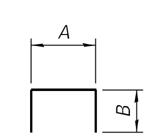
○ Regular driven pile

⊕ * Pre-core driven pile



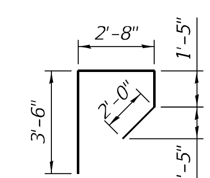
BARS n40(E) thru n42(E)

Bars	C	D	E
n40(E)	6'-5"	7"	5"
n41(E)	7'-8"	10"	7"
n42(E)	8'-4"	11"	8"

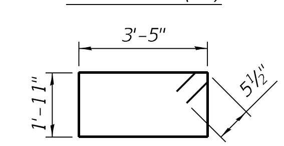


BARS u40(E) or u41(E)

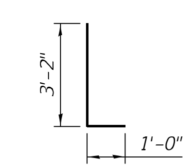
Bars	A	B
u40(E)	2'-8"	3'-2"
u41(E)	9"	1'-6"



BAR v42(E)



BAR s40(E)



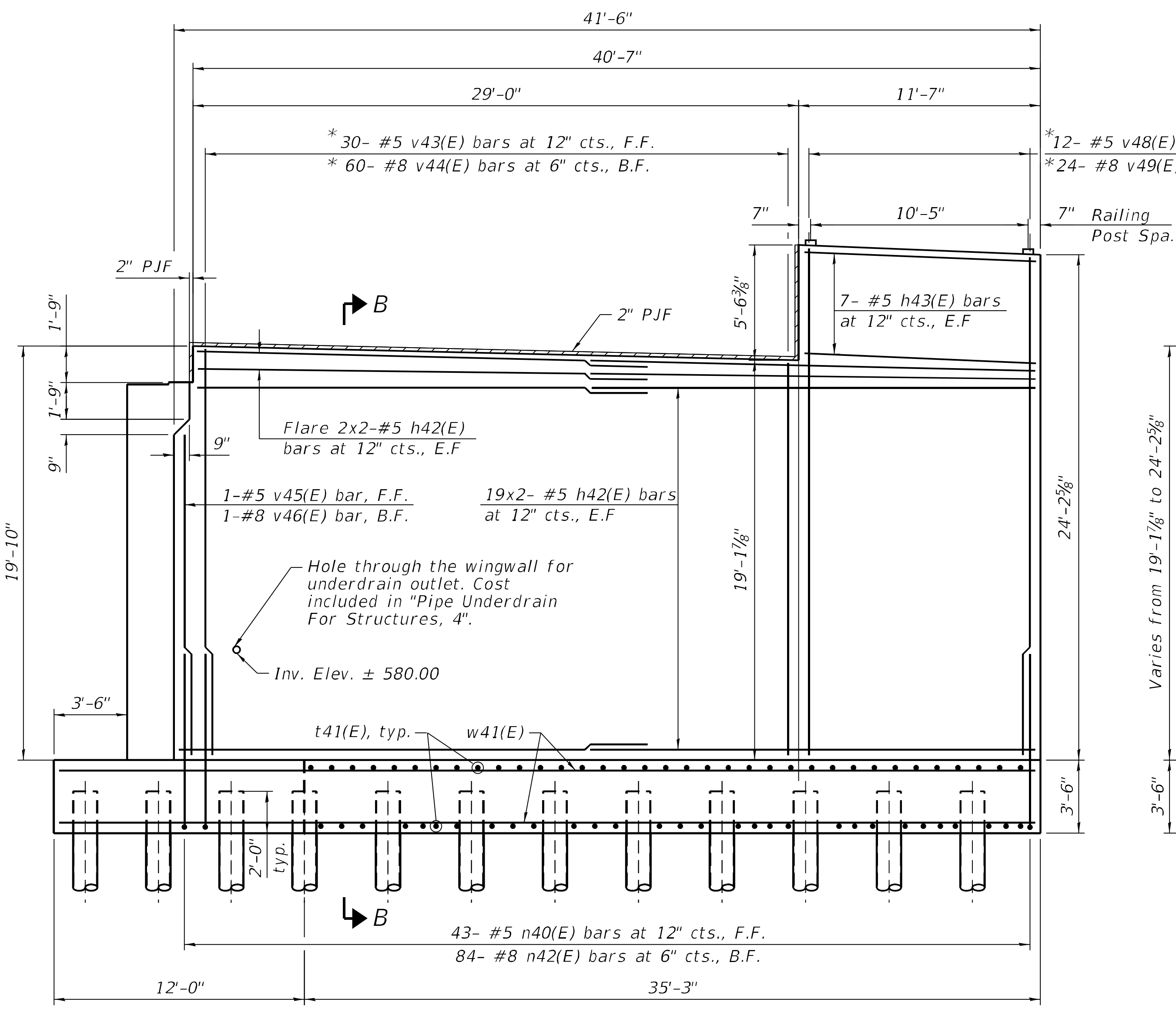
BAR v47(E)

MINIMUM BAR LAP

#5 bar = 3'-2"
#6 bar = 3'-10"
#7 bar = 4'-5"

NOTES:

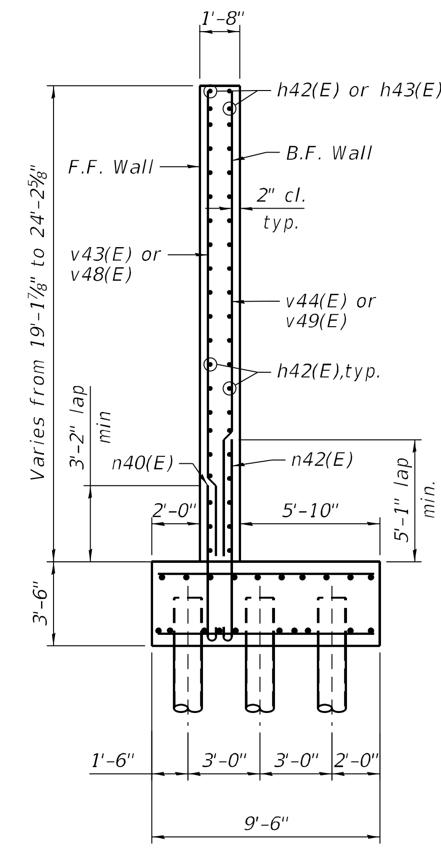
1. For bar diagrams, see Sheet S-38.
2. Wingwalls reinforcement is included in Bill of Material on Sheet S-38.



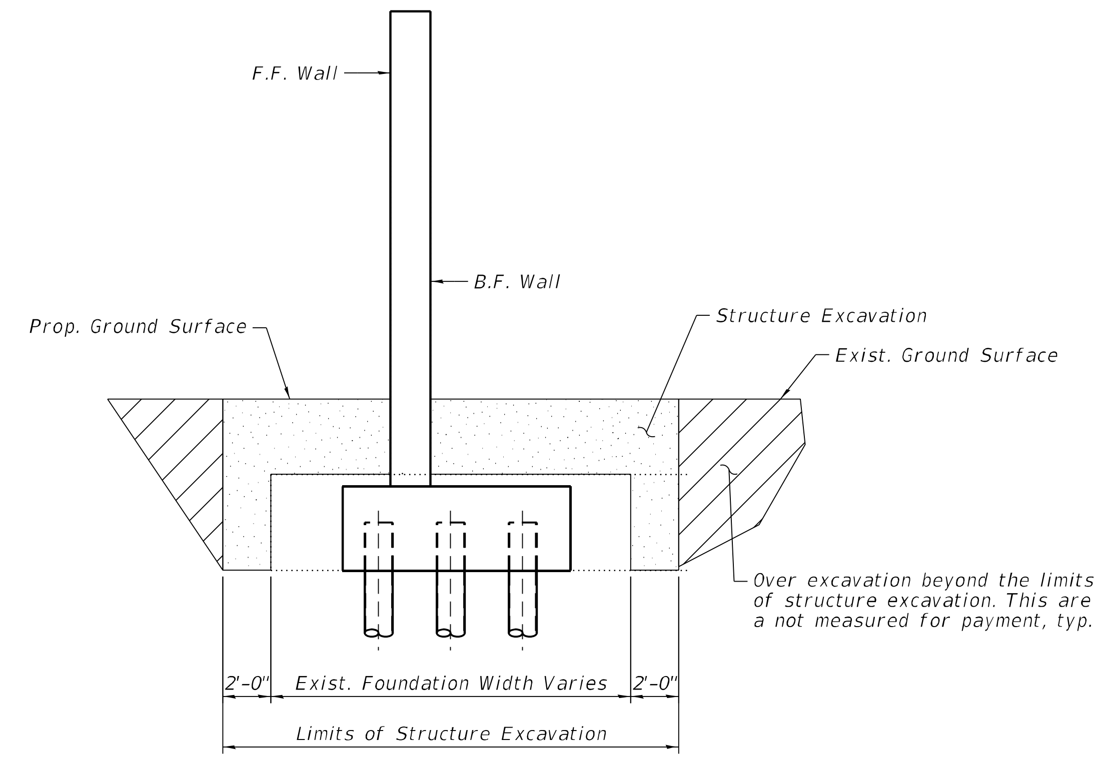
WINGWALL ELEVATION

(NE Wingwall shown. NW Wingwall similar- opposite hand)

*See cutting diagram



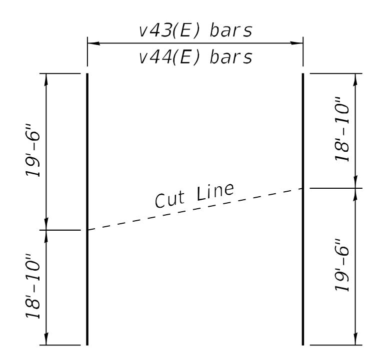
SECTION B-B



WINGWALL EXCAVATION

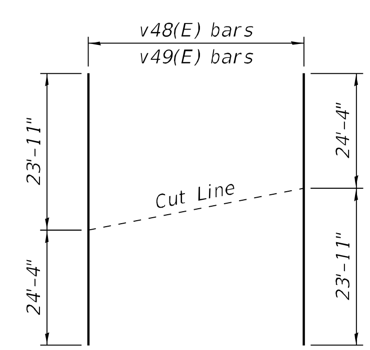
MINIMUM BAR LAP

#5 bar = 3'-2"
#6 bar = 3'-10"
#7 bar = 4'-5"
#8 bar = 5'-1"



FIELD CUTTING DIAGRAM

Order v43(E) and v44(E) bars full length.
Cut as shown and use remainder of bars in opposite end of wingwall.



FIELD CUTTING DIAGRAM

Order v48(E) and v49(E) bars full length.
Cut as shown and use remainder of bars in opposite end of wingwall.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT WINGWALLS
STRUCTURE NO. 016-2079

SHEET S-39 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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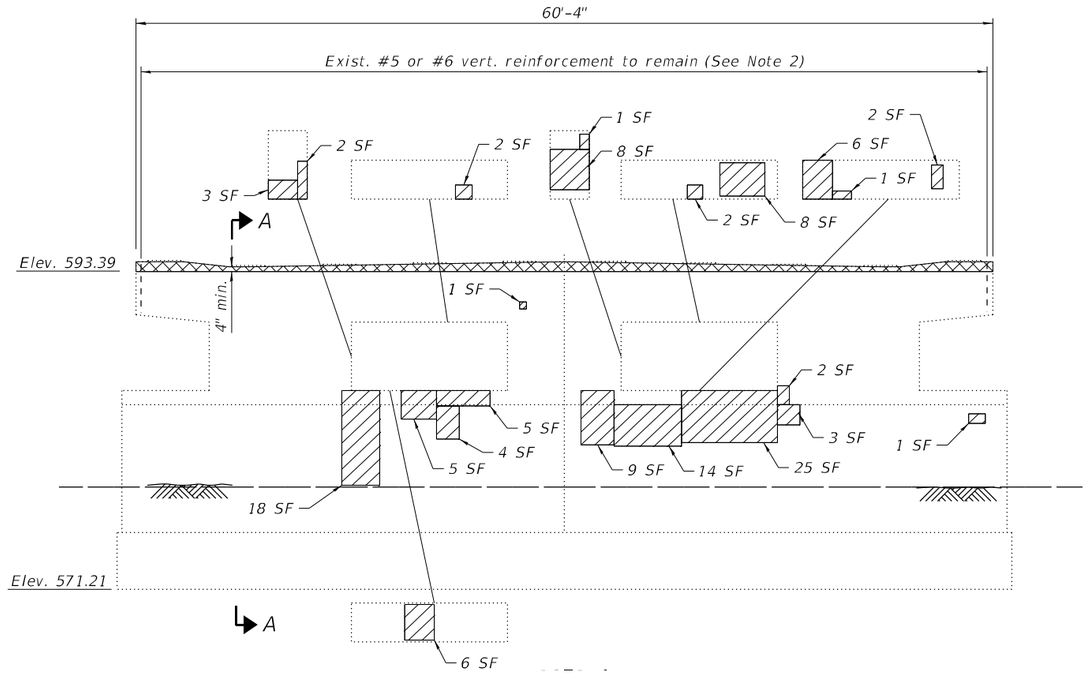
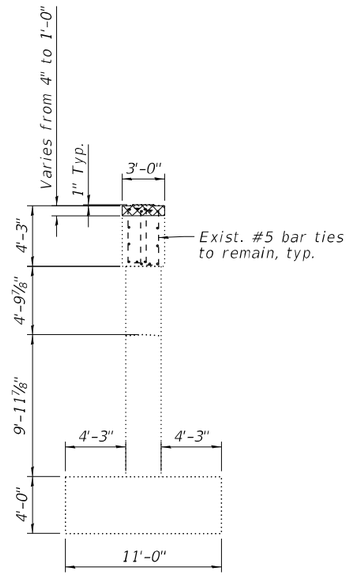


PIER 1 ELEVATION

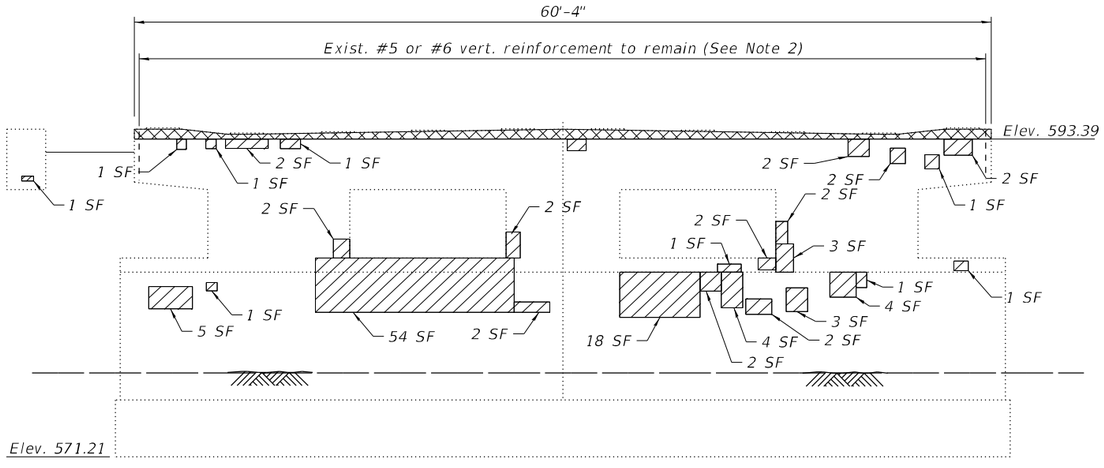
(Looking South)



SECTION A-A

NOTES:

1. Repairs to the existing Pier shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the ENGINEER at the time of construction.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
3. Repairs are to be performed after removal of existing superstructure elements and associated bearings.
4. For Proposed Pier 1 Cap modifications, see Sheet S-41.
5. Any reinforcement bars that are damaged during concrete removal operations shall be repaired and replaced using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".



PIER 1 ELEVATION

(Looking North)

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	5.1
Strucutral Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	250

LEGEND

Concrete Removal

Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

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DEPARTMENT OF TRANSPORTATION

PIER 1 REMOVAL AND REPAIRS
STRUCTURE NO. 016-2079
SHEET S-40 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	133
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

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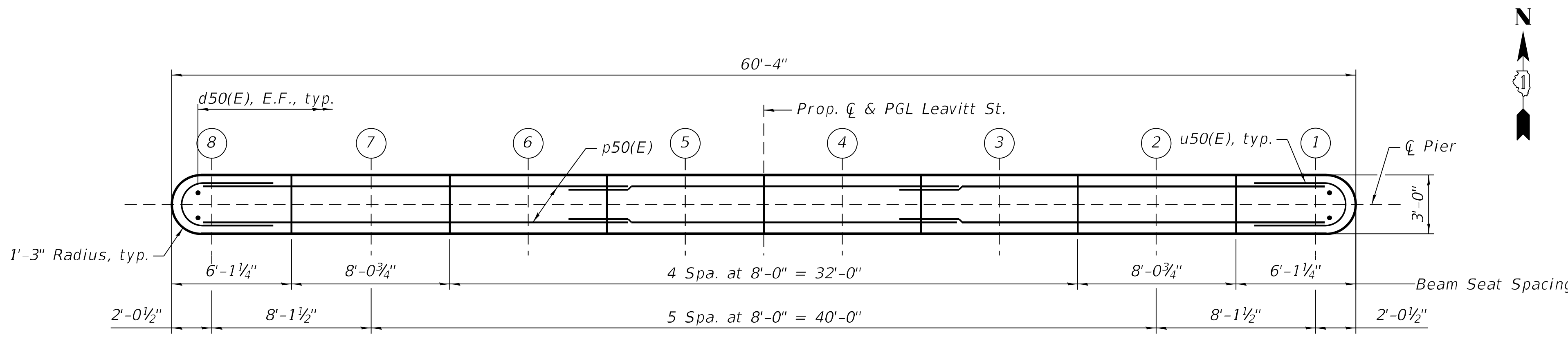
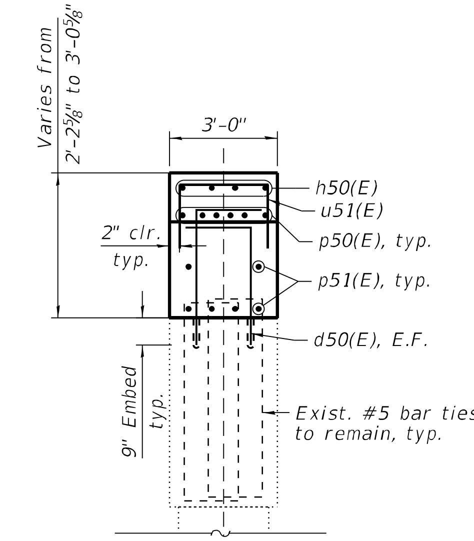
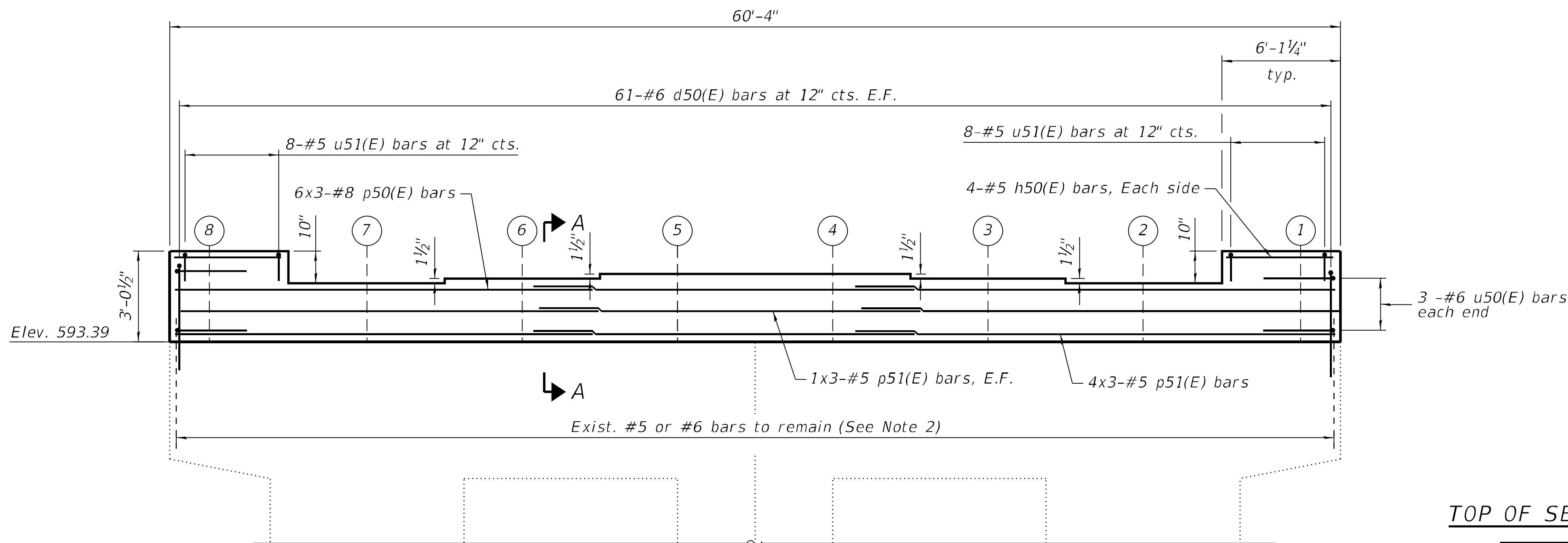


CAP PLAN



SECTION A-A



PIER 1 ELEVATION
(Looking North)

NOTES:

1. For Pier 1 Removal and Repairs see Sheet S-40.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with "Concrete Removal".
3. Apply Concrete Sealer to all exposed proposed concrete surfaces of the pier.

MINIMUM BAR LAP

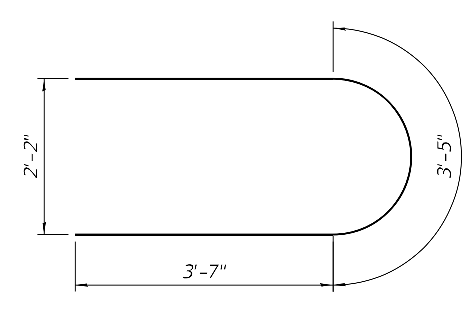
#4 bar = 2'-7"
#5 bar = 3'-2"
#8 bar = 5'-1"

TOP OF SEAT ELEVATIONS

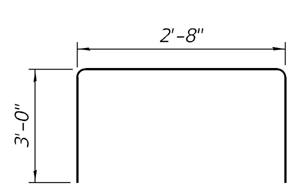
Beam No.	Seat Elev.
1	596.44
2	595.61
3	595.73
4	595.85
5	595.85
6	595.73
7	595.61
8	596.44

BILL OF MATERIAL

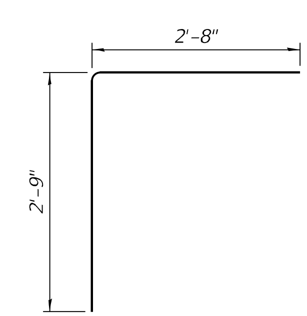
Bar	No.	Size	Length	Shape
d50(E)	122	#6	5'-5"	
h50(E)	8	#5	5'-9"	
p50(E)	18	#8	23'-5"	
p51(E)	18	#5	22'-2"	
u50(E)	6	#6	10'-7"	
u51(E)	16	#5	8'-8"	
Concrete Structures			Cu Yd	17.6
Reinforcement Bars, Epoxy Coated			Pound	2,830
Concrete Sealer			Sq Ft	497



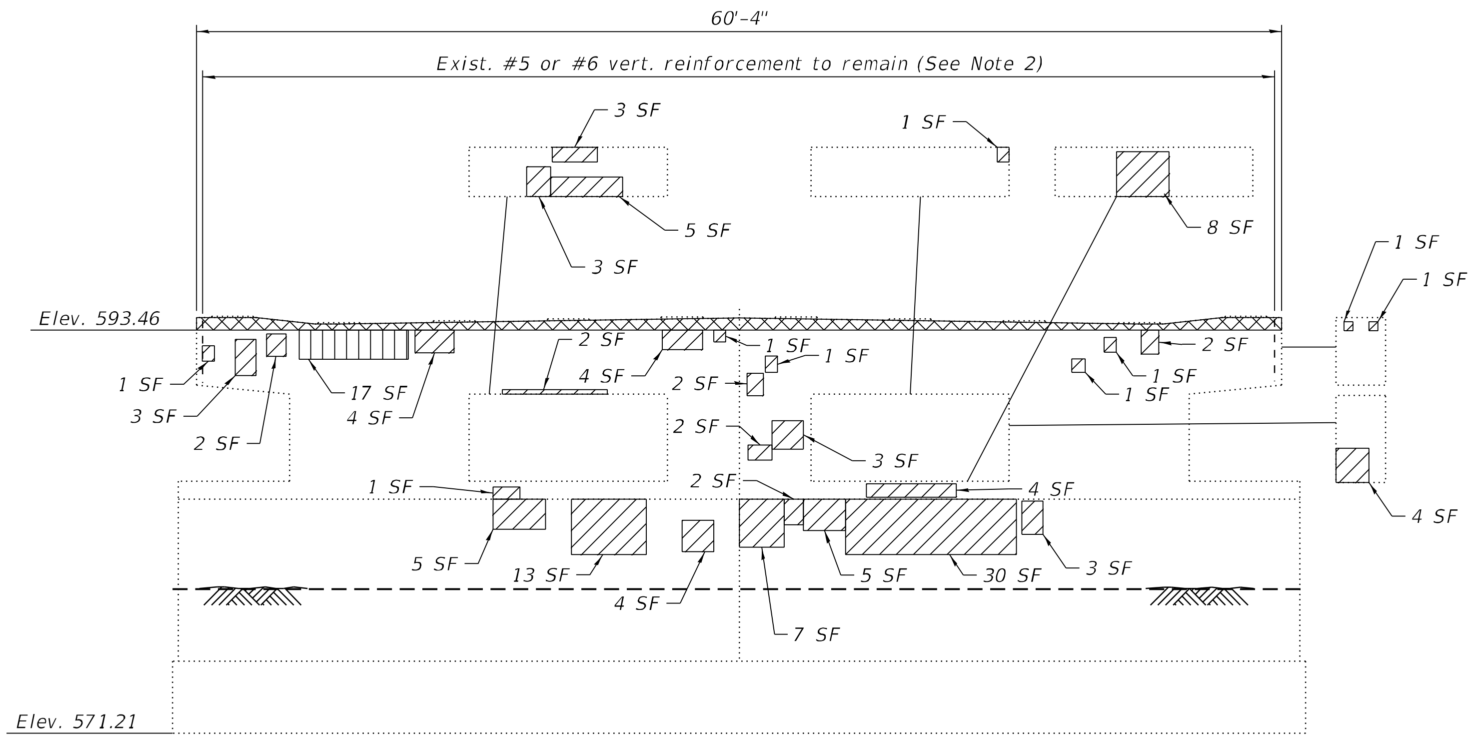
BAR u50(E)



BAR u51(E)

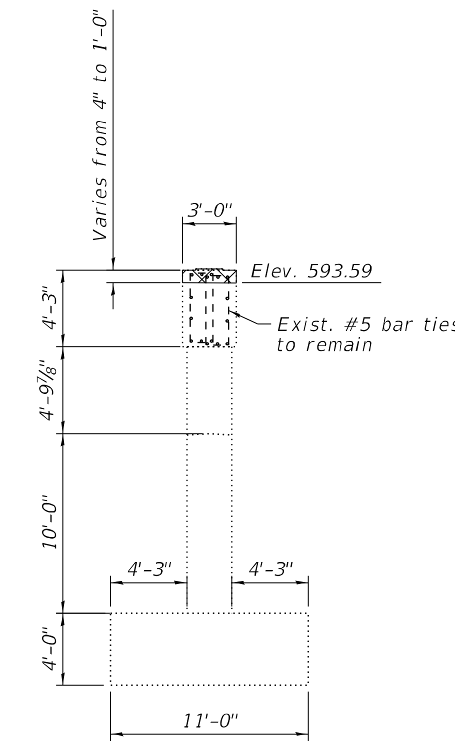


BAR d50(E)

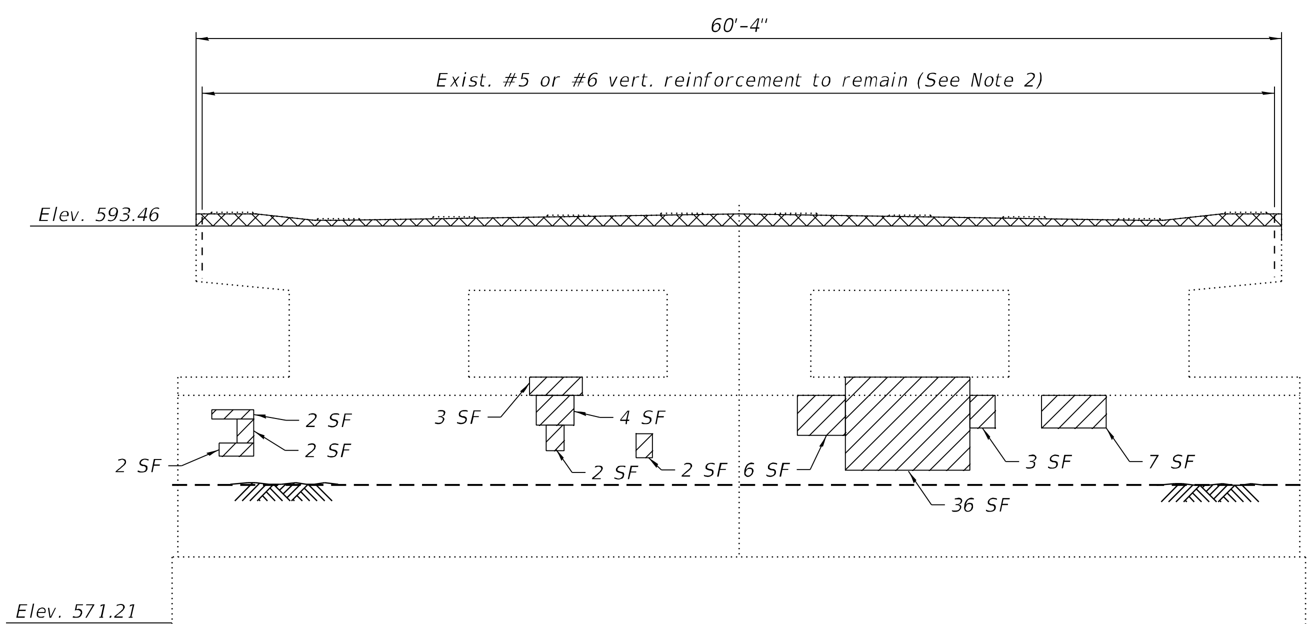


PIER 2 ELEVATION

(Looking South)



SECTION A-A



PIER 2 ELEVATION

(Looking North)

NOTES:

1. Repairs to the existing Pier shall include but not be limited to the areas shown. The actual areas to be repaired will be determined by the ENGINEER at the time of construction.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
3. Repairs are to be performed after removal of existing superstructure elements and associated bearings.
4. For Proposed Pier 2 Cap modifications, see Sheet S-43.
5. Any reinforcement bars that are damaged during concrete removal operations shall be repaired and replaced using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".

BILL OF MATERIAL

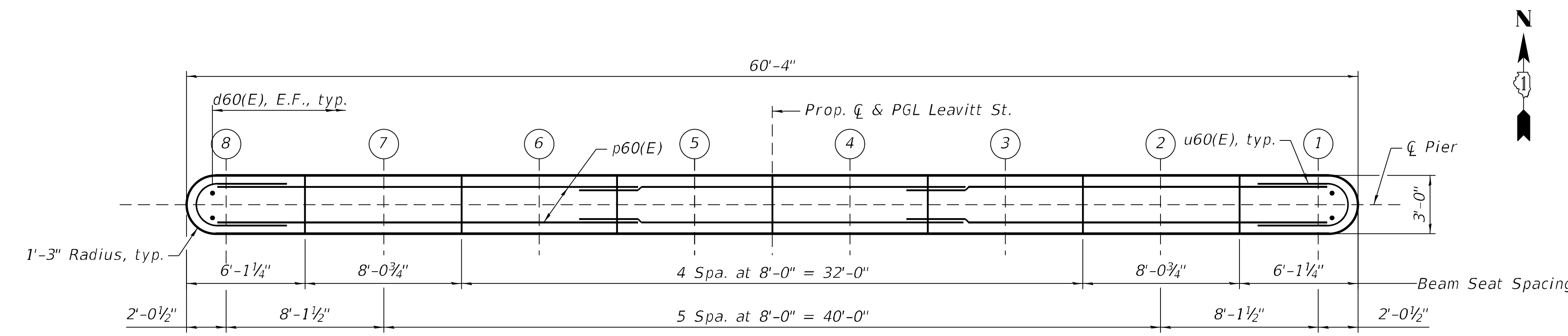
Item	Unit	Total
Concrete Removal	Cu. Yd.	5.1
Strucutral Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq. Ft.	198
Strucutral Repair of Concrete (Depth Greater than 5 inches)	Sq. Ft.	17

LEGEND

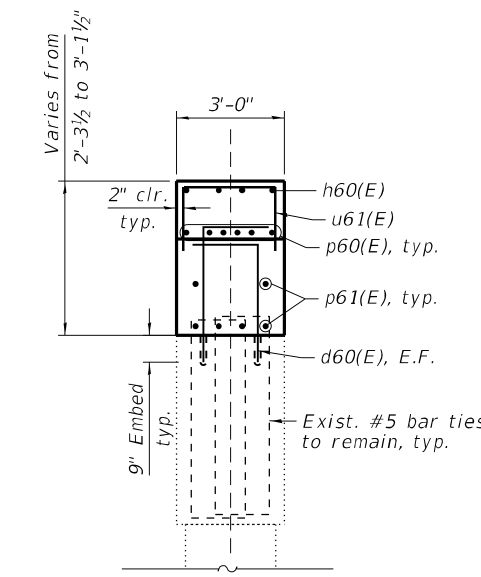
Concrete Removal

Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

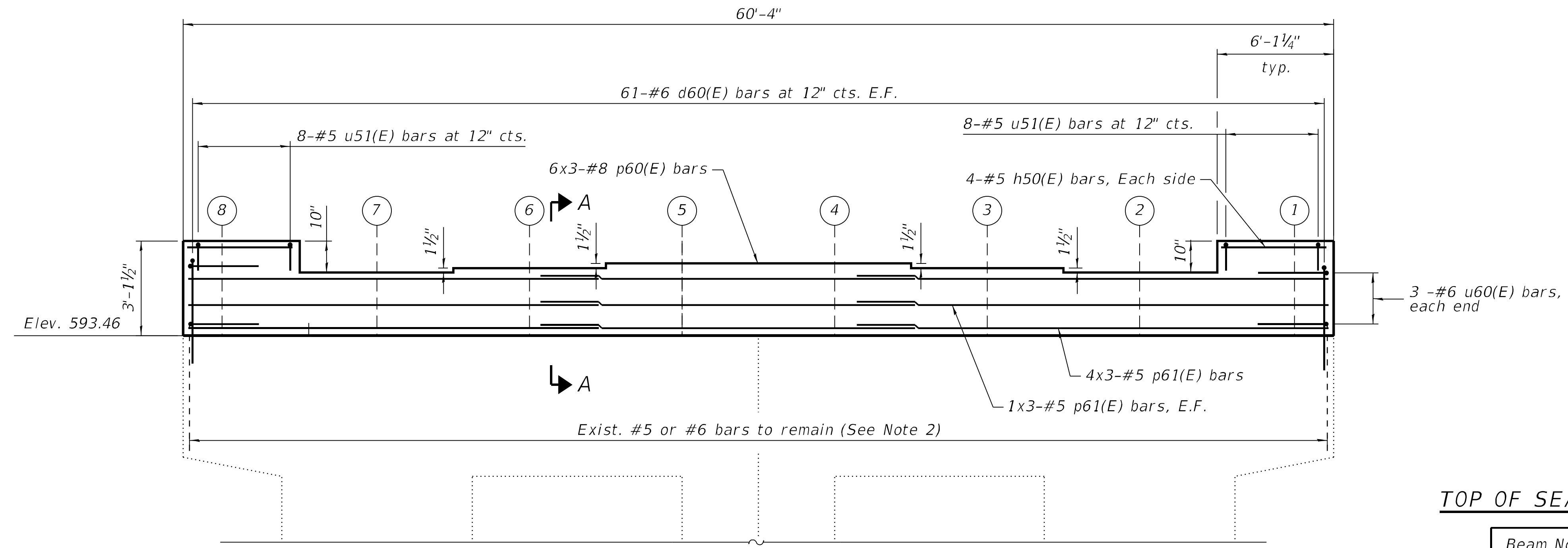
Structural Repair of Concrete (Depth Greater than 5 inches)



CAP PLAN



SECTION A-A



PIER 2 ELEVATION
(Looking North)

NOTES:

1. For Pier 1 Removal and Repairs see Sheet S-42.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
3. Apply Concrete Sealer to all exposed proposed concrete surfaces of the pier.

TOP OF SEAT ELEVATIONS

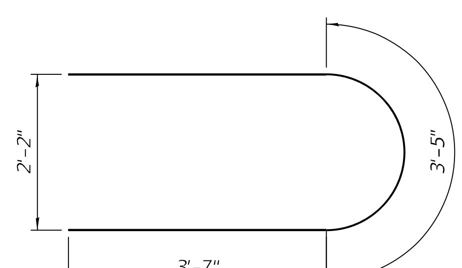
Beam No.	Seat Elev.
1	596.58
2	595.75
3	595.87
4	595.99
5	595.99
6	595.87
7	595.75
8	596.58

MINIMUM BAR LAP

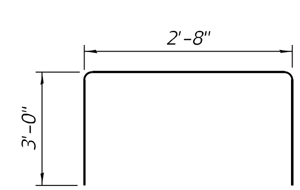
#4 bar = 2'-7"
#5 bar = 3'-2"
#8 bar = 5'-1"

BILL OF MATERIAL

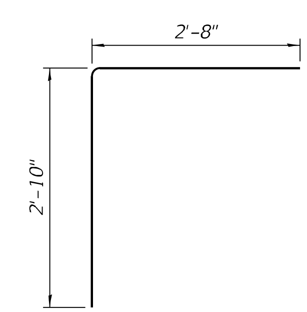
Bar	No.	Size	Length	Shape
d60(E)	122	#6	5'-6"	
h60(E)	8	#5	5'-9"	
p60(E)	18	#8	23'-5"	
p61(E)	18	#5	22'-2"	
u60(E)	6	#6	10'-7"	
u61(E)	16	#5	8'-8"	
Concrete Structures		Cu Yd		18.2
Reinforcement Bars, Epoxy Coated		Pound		2,840
Concrete Sealer		Sq Ft		508



BAR u50(E)



BAR u51(E)



BAR d50(E)

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USER NAME = untitled	DESIGNED - SIK	REVISED -	
	DRAWN - SBA	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 CAP MODIFICATIONS
STRUCTURE NO. 016-2079

SHEET S-43 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	136
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

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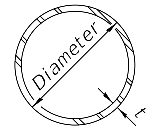
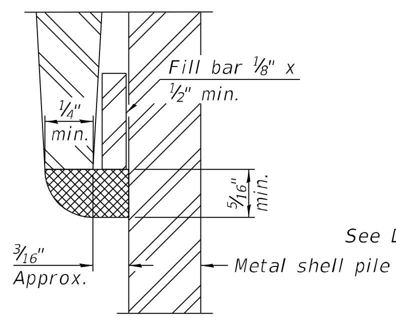
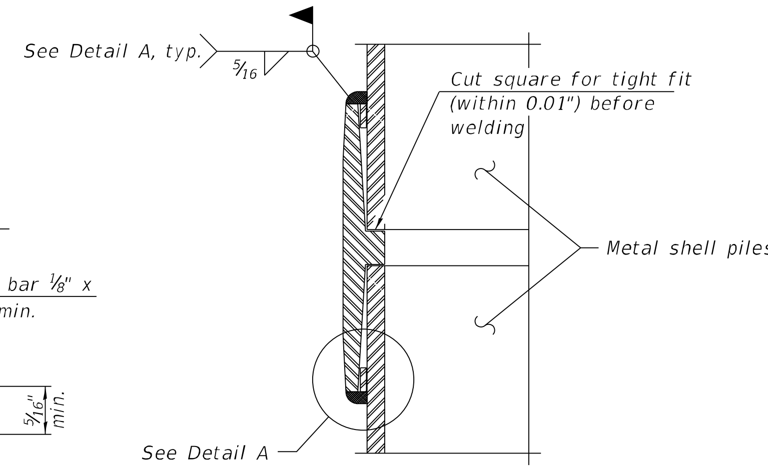


METAL SHELL PILE TABLE

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

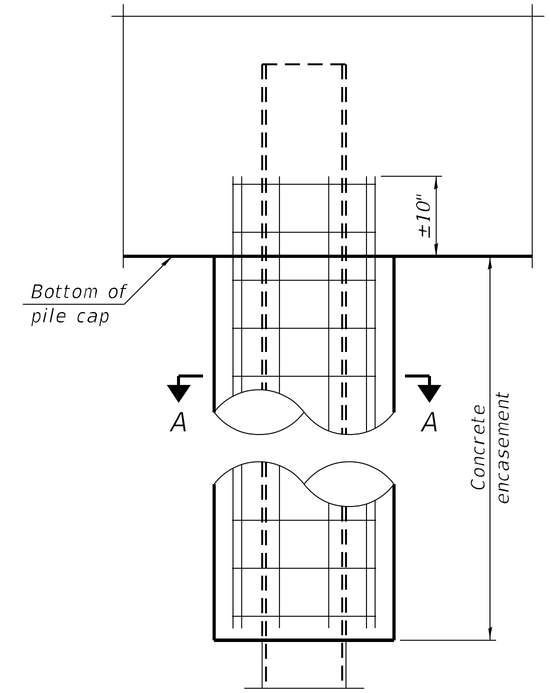


DETAIL A

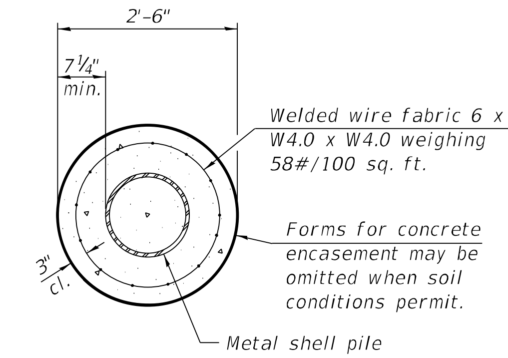


WELDED COMMERCIAL SPLICE

Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

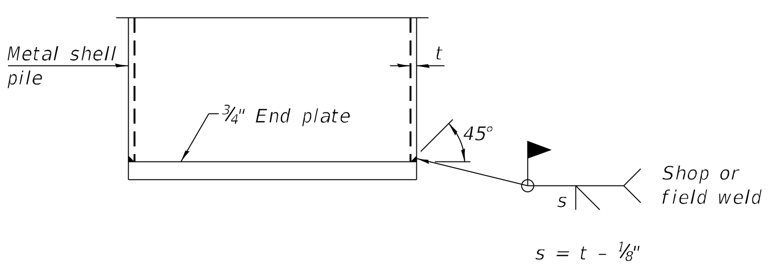


ELEVATION

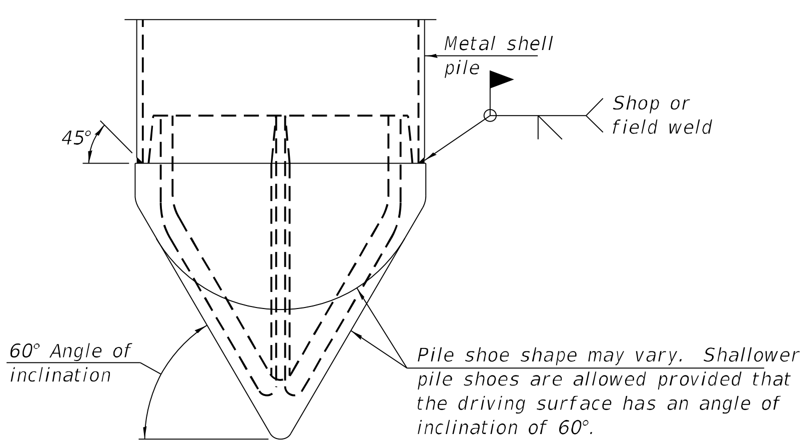


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT
(When specified)

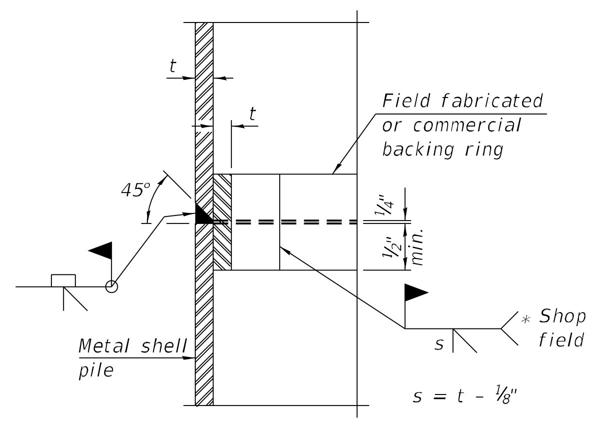


END PLATE ATTACHMENT



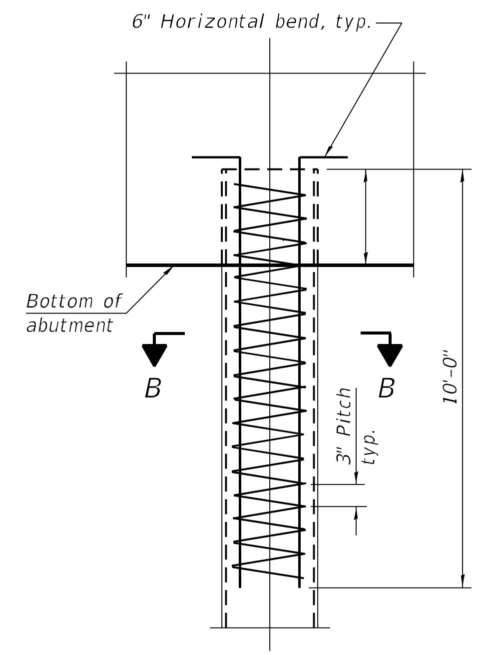
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

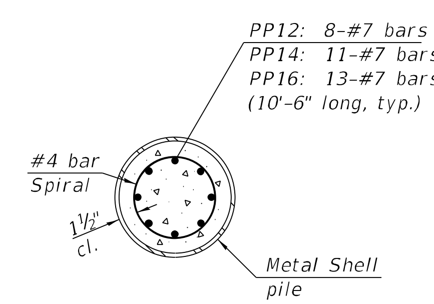


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 5-15-2023

CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = untitled	DESIGNED - SIK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	METAL SHELL PILE DETAILS STRUCTURE NO. 016-2079	F.A.I. RTE. 290 · SECTION 2021-120-BR · COUNTY COOK · TOTAL SHEETS 178 · SHEET NO. 137
		DRAWN - SBA	REVISED -			CONTRACT NO. 62P43
	PLOT SCALE = 0.1667 ' / in.	CHECKED - BWS	REVISED -			
	PLOT DATE = 2/13/2025	DATE - 2/13/2025	REVISED -		SHEET S-44 OF S-47 SHEETS	ILLINOIS FED. AID PROJECT

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Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 3/20/24

ROUTE FAI 290 (I-290) DESCRIPTION Bridge Boring LOGGED BY DV

SECTION 2021-120-BR LOCATION , SEC. 18, TWP. 39N, RNG. 14E,
Latitude 41.8761186, Longitude -87.6814759

COUNTY COOK DRILLING RIG CME 75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 79.8

STRUCT. NO. 016-2079
Station N/A

BORING NO. BSB-01
Station 104+83.48
Offset 20.80ft LT
Ground Surface Elev. 593.40 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4 inches of Asphalt 11 inches of Concrete 7 inches of Aggregate Base	593.07 592.15			
		3		
	591.57	3		4
Brown, Dry FILL: SAND, trace gravel, concrete fragments		2		
		2		
		9		4
	-5	5		
	587.40			
Dark Brown, Very Moist FILL: SILTY CLAY, trace organics, gravel		WH		
		WH	<0.21	43
		1	B	
	584.90			
Stiff Dark Brown, Very Moist SILTY CLAY, trace gravel (CL/ML)		1		
		1	1.7	27
	-10	3	B	
	582.40			
Very Soft to Soft Gray, Moist to Very Moist SILTY CLAY, trace gravel (CL/ML)		WH		
		WH	0.6	21
		1	B	
		WH		
		WH	0.4	27
	-15	WH	B	
		WH		
		WH	0.2	26
		WH	B	
		WH		
		WH	<0.21	29
	-20	WH	B	
Very Soft to Soft Gray, Moist to Very Moist SILTY CLAY, trace gravel (CL/ML) *(continued)*		WH		
		WH	0.2	28
		WH	B	
		WH		
		WH	<0.21	27
	-25	WH	B	
		WH		
		WH	0.2	27
		WH	B	
		WH		
	-30	WH	<0.21	27
		WH	B	
		WH		
		WH	0.2	24
	-35	WH	B	
		WH		
		4	<0.21	29
	-40	4	P	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 3/20/24

ROUTE FAI 290 (I-290) DESCRIPTION Bridge Boring LOGGED BY DV

SECTION 2021-120-BR LOCATION , SEC. 18, TWP. 39N, RNG. 14E,
Latitude 41.8761186, Longitude -87.6814759

COUNTY COOK DRILLING RIG CME 75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 79.8

STRUCT. NO. 016-2079
Station N/A

BORING NO. BSB-01
Station 104+83.48
Offset 20.80ft LT
Ground Surface Elev. 593.40 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Soft to Soft Gray, Moist to Very Moist SILTY CLAY, trace gravel (CL/ML) *(continued)*				
	549.90			
Stiff, Gray, Moist SILTY CLAY, with sand, trace gravel (CL/ML)		2		
		2	1.0	19
	-45	5	B	
		1		
		5		22
	-50	5		
	539.90			
Dense Gray, Moist to Very Moist SILTY LOAM (ML)		14		
		15		16
	-55	21		
		11		
		15		21
	-60	18		
Dense Gray, Moist to Very Moist SILTY LOAM (ML) *(continued)*		11		
		19		13
	-65	17		
		9		
		10		12
	-70	20		
	519.90			
Hard to Very Hard Gray, Moist SILTY CLAY (CL/ML)		11		
		17	8.8	22
	-75	23	B	
		9		
8 inch Silt Seam at 79 feet		26	6.3	22
	-80	20	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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USER NAME = untitled	DESIGNED - SIK	REVISED -
	DRAWN - SBA	REVISED -
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PLOT DATE = 2/13/2025	DATE - 2/13/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS (SHEET 1 OF 3)
STRUCTURE NO. 016-2079
SHEET S-45 OF S-47 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	138
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

Date 3/20/24

ROUTE FAI 290 (I-290) DESCRIPTION Bridge Boring LOGGED BY DV

SECTION 2021-120-BR LOCATION , SEC. 18, TWP. 39N, RNG. 14E,
Latitude 41.8761186, Longitude -87.6814759

COUNTY COOK DRILLING RIG CME 75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 79.8

STRUCT. NO. 016-2079
Station N/A

BORING NO. BSB-01
Station 104+83.48
Offset 20.80ft LT
Ground Surface Elev. 593.40 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard to Very Hard Gray, Moist SILTY CLAY (CL/ML) *(continued)*	509.90				
Extremely Dense Gray, Moist GRAVEL, with clay, sand (GP/GC)			39 50		8
		-85			
			50		8
	502.40	-90			
WEATHERED LIMESTONE	501.40				
Auger Refusal at 92 feet End of Boring		-95			
		-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
GSG Consultants, Inc.

Date 3/7/24

ROUTE FAI 290 (I-290) DESCRIPTION Bridge Boring LOGGED BY DF

SECTION 2021-120-BR LOCATION , SEC. 18, TWP. 39N, RNG. 14E,
Latitude 41.8750366, Longitude -87.6814429

COUNTY COOK DRILLING RIG CME 75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 79.8

STRUCT. NO. 016-2079
Station N/A

BORING NO. BSB-02
Station 100+89.09
Offset 19.44ft LT
Ground Surface Elev. 594.60 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
1 inch of Asphalt	594.52				
8 inches of Concrete	593.85				
10 inches of Aggregate Base	593.02		6 4 3		15
Black and Dark Brown, Moist FILL: SANDY LOAM, trace gravel			3 1 1		23
		-5			
	588.60				
Very Stiff Dark Gray and Brown, Moist SILTY CLAY, trace gravel (CL/ML)			2 2 3	2.5 B	23
Cobbles at 8.5 feet			4 5 6		21
		-10			
	583.60				
Very Soft to Soft Gray, Very Moist SILTY CLAY, trace gravel (CL/ML)			2 2 3	<0.21 B	29
			WH 1 1	0.4 B	28
		-15			
			WH WH 1	0.2 B	29
			WH WH WH	<0.21 B	29
		-20			
Very Soft to Soft Gray, Very Moist SILTY CLAY, trace gravel (CL/ML) *(continued)*			WH WH WH	<0.21 B	28
Silt seam at 22 feet					
			WH WH WH	<0.21 B	29
		-25			
Silt seam at 26.5 feet			3 1 1	<0.21 B	20
			WH WH 1	<0.21 B	28
		-30			
			WH WH WH	<0.21 B	43
		-35			
	556.10				
Gravel seam 39 feet			10 16 17	5.8 B	12
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 3/7/24

ROUTE FAI 290 (I-290) DESCRIPTION Bridge Boring LOGGED BY DF

SECTION 2021-120-BR LOCATION , SEC. 18, TWP. 39N, RNG. 14E, Latitude 41.8750366, Longitude -87.6814429

COUNTY COOK DRILLING RIG CME 75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 79.8

STRUCT. NO. 016-2079
Station N/A

BORING NO. BSB-02
Station 100+89.09
Offset 19.44ft LT
Ground Surface Elev. 594.60 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Hard Gray, Moist SILTY CLAY, trace gravel (CL/ML) *(continued)*					
			7		
			9	7.7	14
		-45	13	B	
			5		
			6	4.1	18
		-50	14	B	
Very Dense Gray, Moist SILTY LOAM (ML)	541.10		18		
			26		17
		-55	24		
			14		
			28		20
Sand seam at 59.5 feet		-60	29		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Dense Gray, Moist SILTY LOAM (ML) *(continued)*					
Hard to Very Hard Gray, Moist SILTY CLAY LOAM, trace gravel (CL/ML)	531.10		12		
			15	11.5	12
		-65	21	B	
			15		
			24	15.6	11
		-70	34	B	
			8		
			11	7.1	26
		-75	18	B	
Very Dense to Extremely Dense Gray, Moist SANDY LOAM, trace gravel (SM)	516.10		21		
			28		11
		-80	30		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
GSG Consultants, Inc.

SOIL BORING LOG

Date 3/7/24

ROUTE FAI 290 (I-290) DESCRIPTION Bridge Boring LOGGED BY DF

SECTION 2021-120-BR LOCATION , SEC. 18, TWP. 39N, RNG. 14E, Latitude 41.8750366, Longitude -87.6814429

COUNTY COOK DRILLING RIG CME 75 HAMMER TYPE AUTO
DRILLING METHOD MUD ROTARY HAMMER EFF (%) 79.8

STRUCT. NO. 016-2079
Station N/A

BORING NO. BSB-02
Station 100+89.09
Offset 19.44ft LT
Ground Surface Elev. 594.60 ft

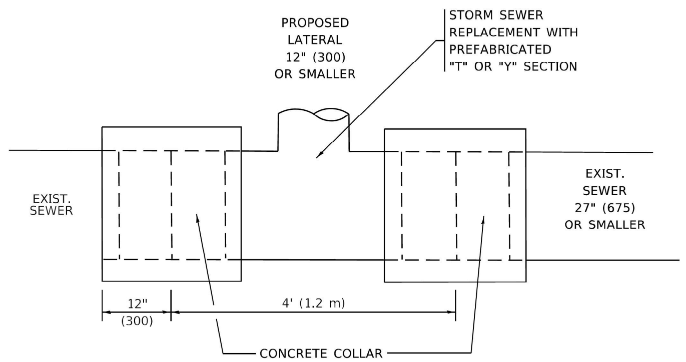
Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter None ft
Upon Completion N/A ft
After N/A Hrs. N/A ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very Dense to Extremely Dense Gray, Moist SANDY LOAM, trace gravel (SM) *(continued)*					
			50/4"		
					12
		-85			
Extremely Dense Light Gray, Moist GRAVEL (GP)	506.10		50/3"		
					6
	504.60	-90			
Auger Refusal at 90 feet End of Boring					
		-95			
		-100			

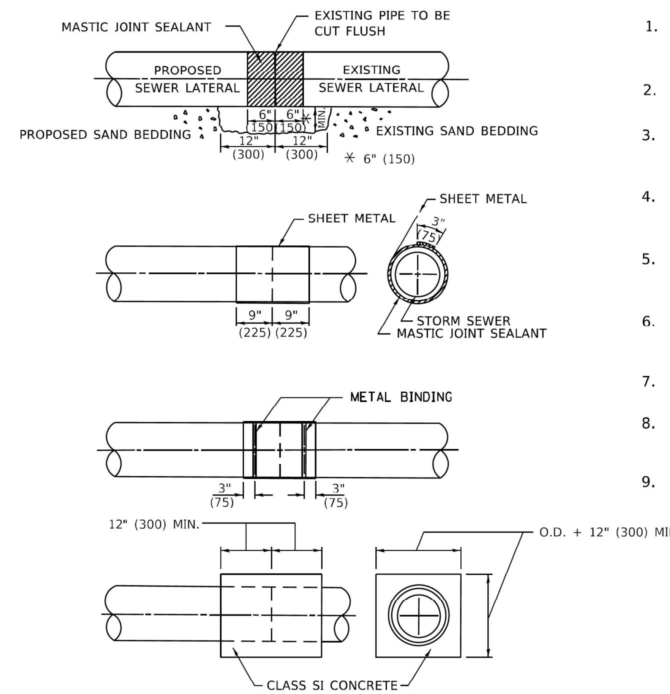
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

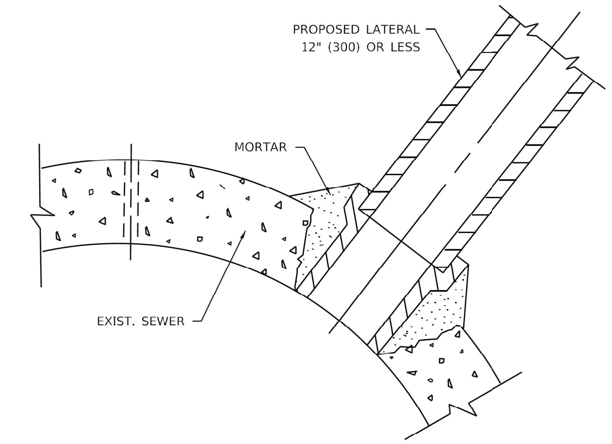


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES:

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
   A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
   B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

1. CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

1. TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.
2. REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.
3. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
4. CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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	DRAWN -	REVISED - R. SHAH 10-25-94	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. SHAH 06-12-96	
PLOT DATE = 11/18/2022	DATE - 07-25-90	REVISED - K. SMITH 11-18-22	

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

BD500-01 (BD-07) | CONTRACT NO. | ILLINOIS | FED. AID PROJECT

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CM	REVISED -	
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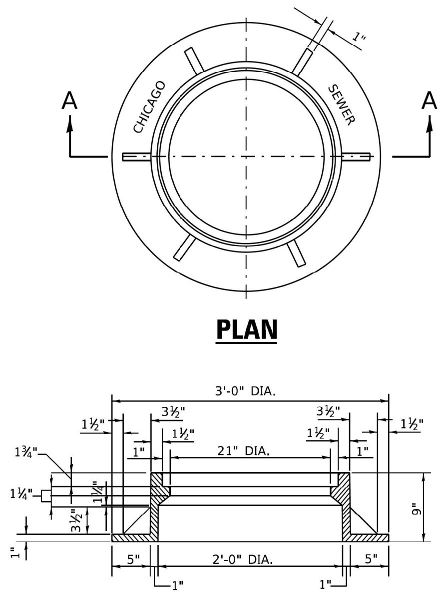
DISTRICT ONE DETAILS
BD-07

SCALE: | SHEET 1 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	141

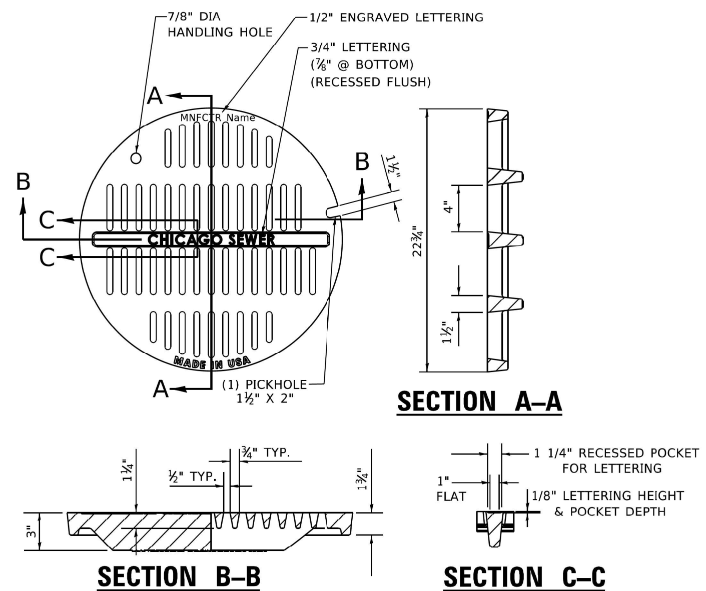
CONTRACT NO. 62P43 | ILLINOIS | FED. AID PROJECT



NOTE: METAL PLATES MUST BE FURNISHED FOR PERFORATED LIDS ON MANHOLES.

HEAVYWEIGHT MANHOLE FRAME

MATERIAL: CAST IRON



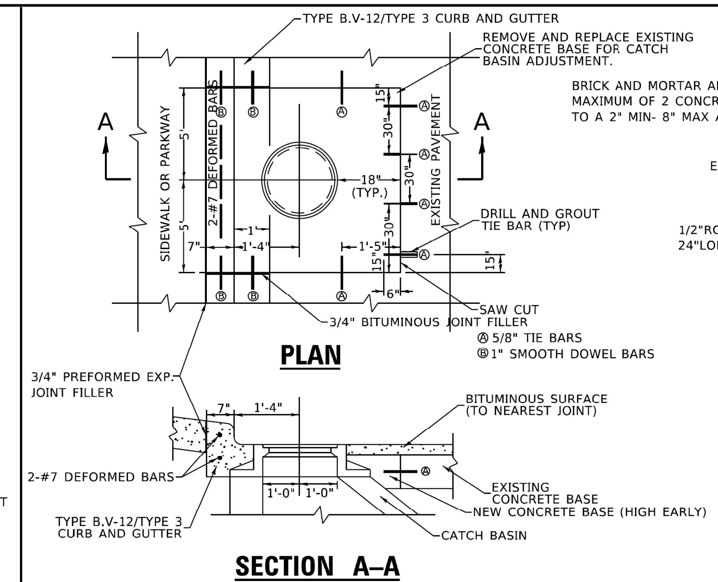
MATERIALS
GRATE-GRAY IRON
ASTM A48 CL35B

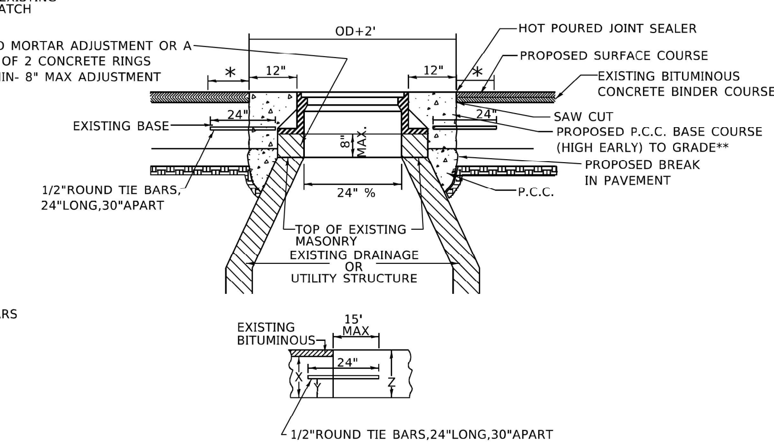
DESIGN LOAD
HEAVY DUTY

COATING
UNDIPPED

OPEN AREA
85.6 SQ. IN.

STANDARD CB / MH LID





SEE CONSTRUCTION DETAILS (FOR MISCELLANEOUS STRUCTURES)
X = THICKNESS OF PAVEMENT
Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE.
Z = 10" OR THICKNESS OF PROPOSED PAVEMENT - WHICHEVER IS GREATER

NOTES:

IF THE ADJUSTMENT EXCEEDS AN 8" HEIGHT, THE CONE MUST BE REMOVED AND THE BARREL SECTION MUST BE ADJUSTED.

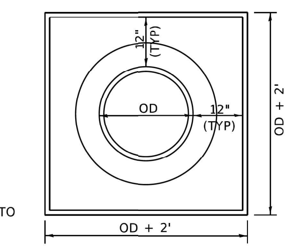
THE CONTRACTOR IS REQUIRED TO REPLACE ANY BROKEN FRAMES AND LIDS OF SEWER STRUCTURES WITH STANDARD FRAMES AND LIDS OF THE DWM. IN ADJUSTMENT OR RECONSTRUCTION OF SEWER STRUCTURES, ANY NON-STANDARD FRAMES AND LIDS MUST BE REPLACED WITH STANDARD FRAMES AND LIDS. IN ADJUSTMENT OR RECONSTRUCTION OF INLETS, ANY NON-STANDARD INLETS (GUTTER BOXES) MUST BE REPLACED WITH DWM STANDARD INLETS.

THE FRAMES AND LIDS OF SEWER STRUCTURES TO BE ABANDONED, REMOVED, OR FILLED MUST BE SALVAGED AND THE DWM NOTIFIED FOR PICK UP.

MANHOLES, CATCH BASINS AND INLETS MUST BE PROTECTED FROM THE ENTRY OF ASPHALT/DEBRIS INTO THE SEWER SYSTEM DURING CONSTRUCTION. THE CONTRACTOR MUST MARK LOCATIONS OF ALL SEWER STRUCTURES ON THE SIDEWALK BEFORE STARTING PAVEMENT REMOVAL/REPLACEMENT. ADJUSTMENT OF FRAMES AND LIDS OF SEWER STRUCTURES MUST BE COMPLETED PRIOR TO STREET RESURFACING.

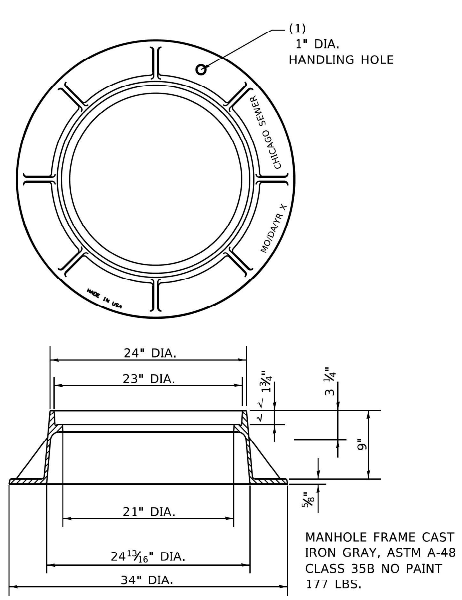
* REFER TO CDOT FOR ASPHAULT RESTORATION EWQUIRE MENRS & CRACK SEAL.

** ON NON-MORATORIUM STREETS, FULL DEPTH. PCC BASE COURSE MAY BE UTILIZED. ON MORATORIUM STREETS, PAVEMENT RESTORATION SHALL ADORE TO CDOT REQUIREDMWNTS.



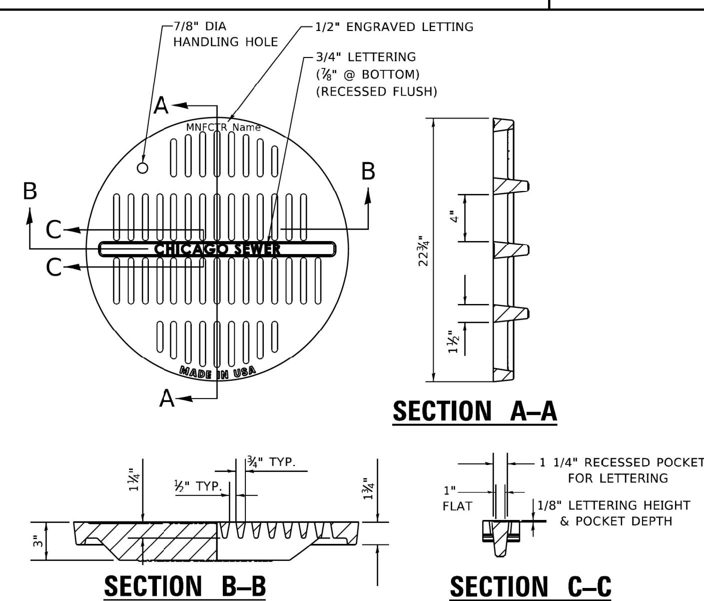
PLAN VIEW
(BASE TO GRADE)

DETAIL OF FRAME ADJUSTMENT



MANHOLE FRAME CAST IRON GRAY, ASTM A-48 CLASS 35B NO PAINT 177 LBS.

LIGHTWEIGHT MANHOLE FRAME



ADA COMPLIANT CATCH BASIN / MANHOLE LID

NOTE:
NOT TO BE USED WITHOUT PRIOR APPROVAL OF CDWM

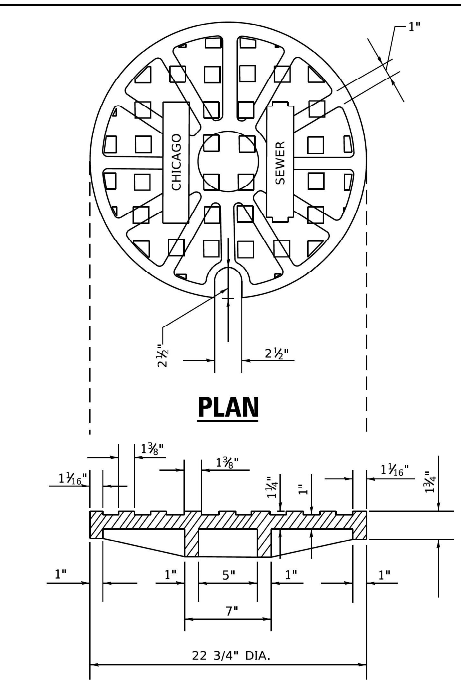
MATERIALS
GRATE-GRAY IRON
ASTM A48 CL35B

DESIGN LOAD
HEAVY DUTY

COATING
UNDIPPED

OPEN AREA
85.6 SQ. IN.

SOLID LID FOR MANHOLES



USER NAME = Lawrence.DeManche	DESIGNED - M. GOMEZ	REVISED - K. SMITH 11-18-22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CITY OF CHICAGO MANHOLE LIDS AND FRAMES
	DRAWN -	REVISED -		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 11/18/2022	DATE - 01-25-01	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD600-13 (BD-47)		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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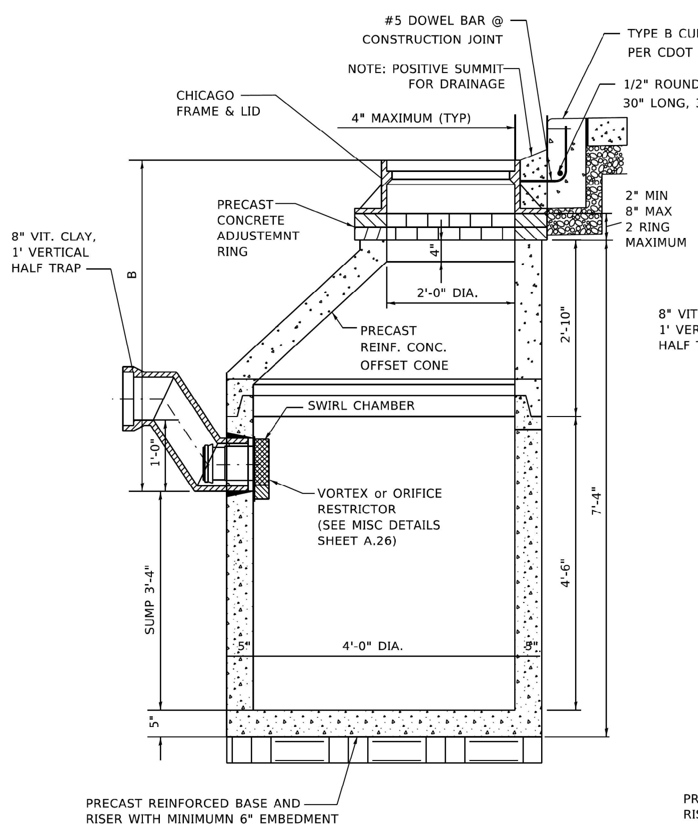
gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

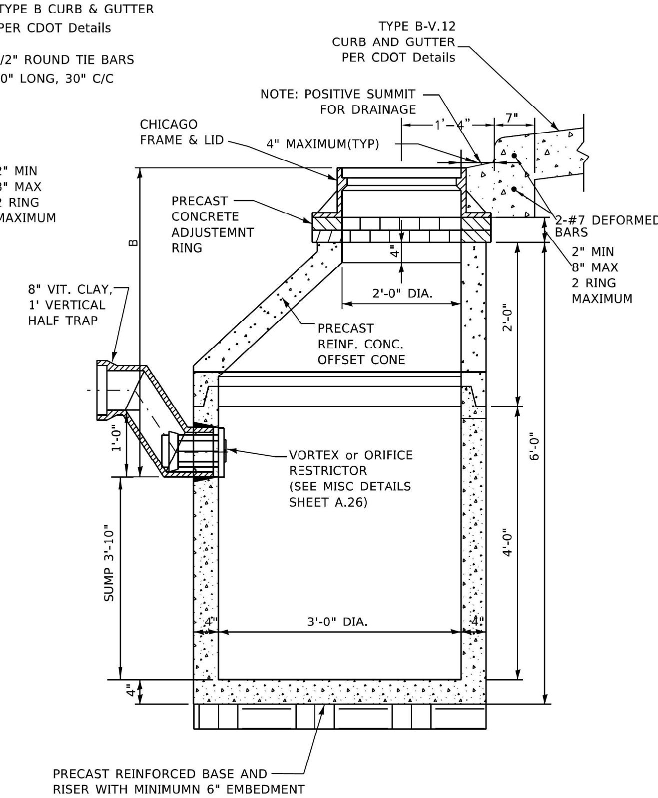
USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE DETAILS BD-47
	DRAWN - CM	REVISED -		
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -		
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -		SCALE: SHEET 2 OF 18 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	142
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

STANDARD DRAINAGE STRUCTURES FOR PUBLIC STREETS

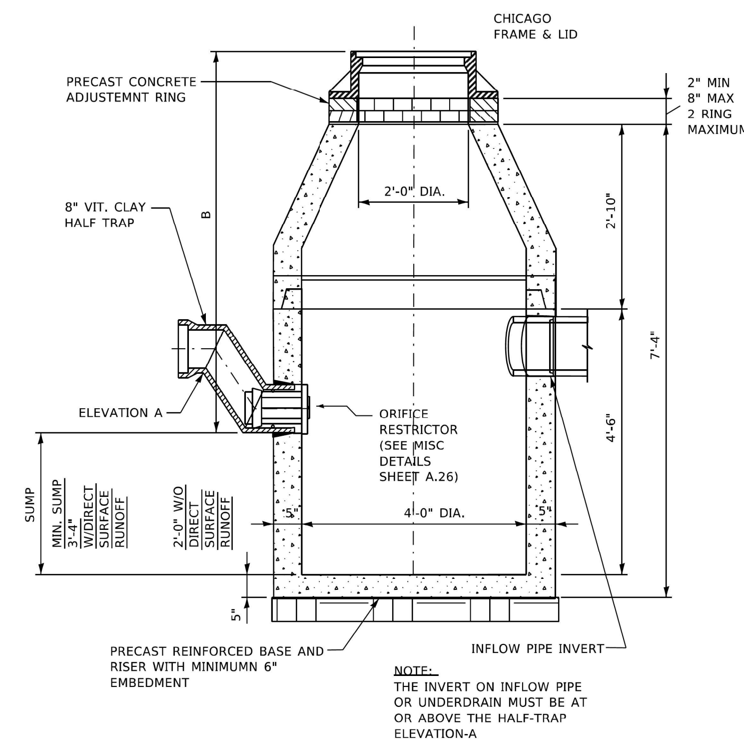


STANDARD CATCH BASIN–4' DIA.



STANDARD CATCH BASIN–3' DIA.

STANDARD DRAINAGE STRUCTURES FOR PUBLIC ALLEYS



CATCH BASIN–ORIFICE RESTRICTOR

N.T.S.

GENERAL NOTES:

1. CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.

2. IF B < 4 FEET, THEN USE A FLAT TOP SLAB CATCH BASIN AS NECESSARY.

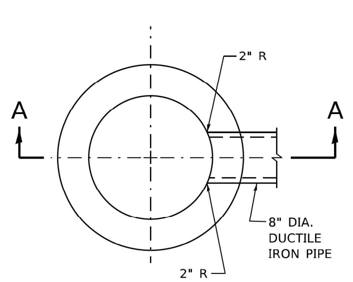
3. FOR TRENCH BACKFILL, REFER TO IDOT SSRBC, ARTICLE 1003.04.

4. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

5. FOR STABILIZATION STONE, 12" OF CA-1 STONE IS ONLY REQUIRED WHEN UNSTABLE MATERIAL IS ENCOUNTERED AT TRENCH BOTTOM.

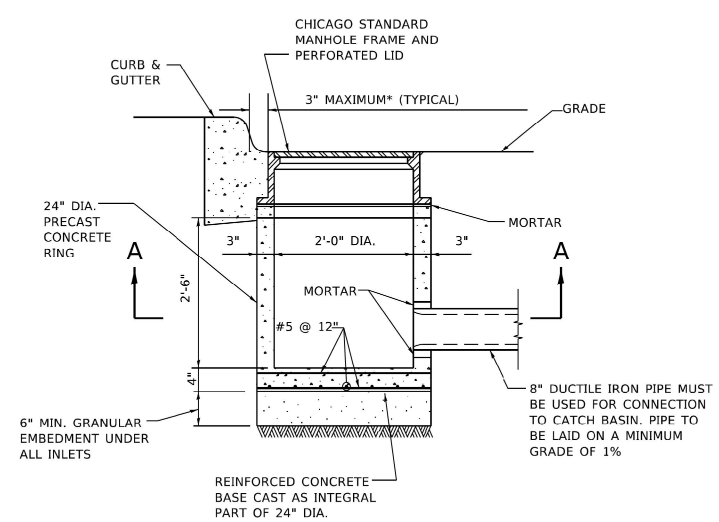
6. INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF THE DEPT OF WATER MANAGEMENT- ENGINEERING SERVICES, SEWER SECTION, AND THE DEPT. OF BUILDINGS STORMWATER REVIEWER.

7. IF COVER OVER VCP IS LESS THAN 3', USE 45 DEGREE DIP BENDS WITH 1 FOOT DROP AS HALF TRAPS AS NEEDED FOR IEPA CLEARANCE REQUIREMENTS



PLAN

(FRAME & LID NOT SHOWN)



STANDARD INLET–2' DIA.

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/18/2022	DATE - 01-25-01	REVISED -	

CITY OF CHICAGO DRAINAGE STRUCTURE DETAILS — SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. — BD600-13 (BD-47) | CONTRACT NO. | ILLINOIS FED. AID PROJECT

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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DISTRICT ONE DETAILS
BD–47

SCALE: | SHEET 3 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	143

CONTRACT NO. 62P43
ILLINOIS FED. AID PROJECT

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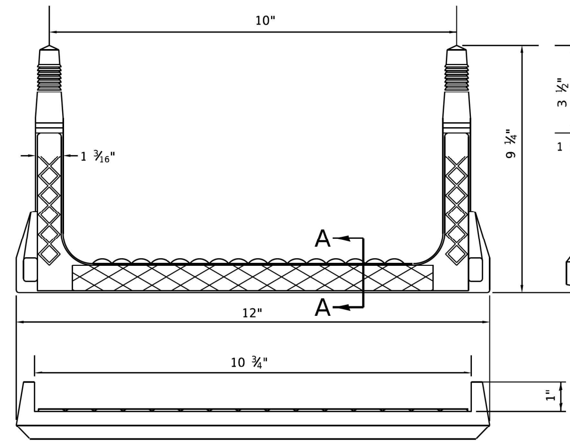

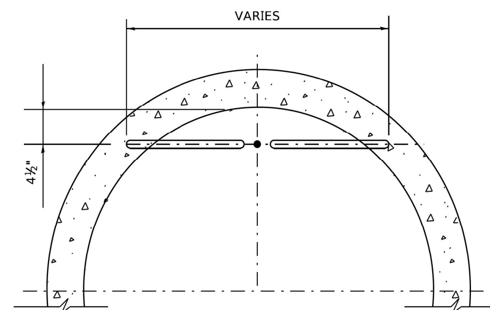

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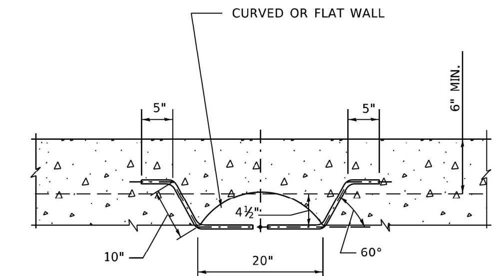

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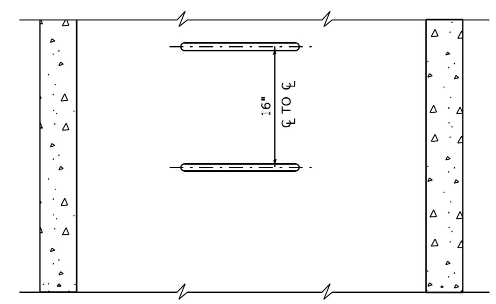

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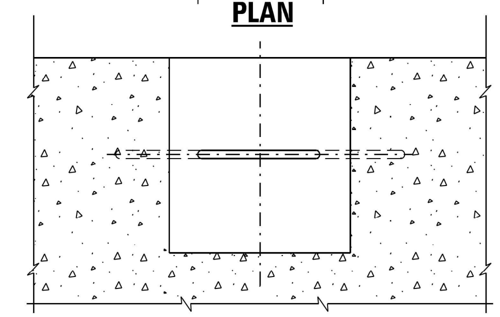
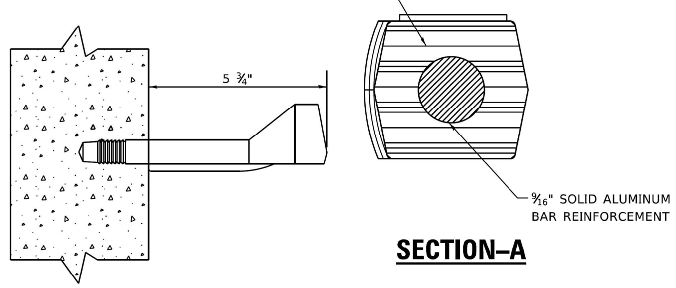


ELEVATION TYPE Y BASE

COPOLYMER POLYPROPYLENE PLASTIC



SECTION–A

RECTANGULAR STEP LADDER RUNG

FOR USE ONLY IN 48" DIAMETER AND LARGER MANHOLES.

NOTES:

1. VERTICAL SPACING = 16" O.C., ON VERTICAL WALL ONLY.
2. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478 IN ADDITION TO A HORIZONTAL PULL-OUT LOAD OF 1000 LBS. WHEN INSTALLED.
3. ALL STEPS SHALL BE VERTICALLY ALIGNED IN A STRAIGHT LINE.
4. MINIMUM CONCRETE STRENGTH MUST BE 3000 PSI
5. HOLES- PREFORMED/DRILLED
   A. HOLES MUST BE PARALLEL
   B. HOLES MUST BE 10" CENTERED, 1" DIAMETER
   C. MINIMUM DEPTH- 3 1/2" TO 3 3/4"

USER NAME = Lawrence.DeManche	DESIGNED - M. GOMEZ	REVISED - K. SMITH 11-18-22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 11/18/2022	DATE - 01-25-01	REVISED -	

CITY OF CHICAGO
LADDER RUNGS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD600-13 (BD-47)		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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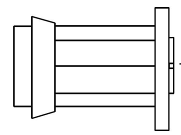
DISTRICT ONE DETAILS
BD-47

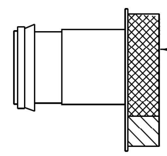
SCALE: | SHEET 4 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	144
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

DRAINAGE STRUCTURES RESTRICTORS



INSERT THE RESTRICTOR INTO THE HALF-TRAP. UPON TIGHTENING OF THE CENTER NUT ON THE FACE OF THE RESTRICTOR, THE RUBBER O-RINGS WILL EXPAND INSIDE THE HALF TRAP, PROVIDING A WATER- TIGHT SEAL.
PULL ON RESTRICTOR TO VERIFY THAT A TIGHT FIT IS MADE.



PULL ON RESTRICTOR TO VERIFY THAT A TIGHT FIT IS MADE.

INSERT THE RESTRICTOR WITH THE OPENING DOWN. UPON TIGHTENING OF THE 2 BOLTS ON THE FACE OF THE RESTRICTOR, THE RUBBER O-RINGS WILL PROVIDE A WATER-TIGHT SEAL.

GENERAL NOTES:

1. CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.

2. IF B < 4 FEET, THEN USE A DUCTILE IRON PIPE HALF TRAP AND FLAT TOP SLAB CATCH BASIN AS NECESSARY.

3. INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF DWM FIELD INSPECTOR.

RESTRICTOR NOTES:

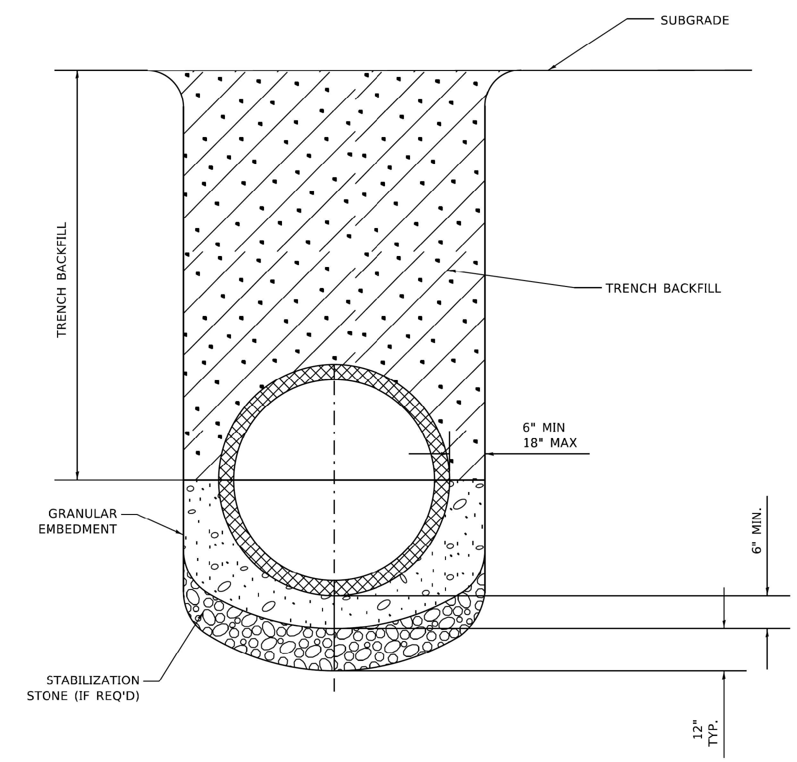
THE DWM'S RAIN BLOCKER RESTRICTOR PROGRAM MUST BE MAINTAINED WITH ANY ROADWAY IMPROVEMENT.

THE DESIGN OF ANY ROADWAY IMPROVEMENT MUST CONSIDER LIMITING THE NUMBER OF CATCH BASINS TO THE EXTENT PRACTICAL. THE NUMBER OF EXISTING STRUCTURES SHOULD NOT BE INCREASED.

THE RESTRICTORS CAN BE OBTAINED FROM DWM CENTRAL DISTRICT AT 3901 S. ASHLAND AVE. THE CONTRACTOR SHOULD ARRANGE FOR PICK UP BY CONTACTING 312-747-8736 (7AM TO 3PM, M-F). CONTRACTOR MUST CALL 48 HOURS IN ADVANCE OF PICK UP DATE AND TIME.

FLOW RESTRICTORS MUST BE INSTALLED IN ALL CATCH BASINS OUTSIDE OF THE CENTRAL BUSINESS DISTRICT(LIMITS: NORTH AVE, CERMAK AVE, HALSTED AVE, LAKE MICHIGAN). RESTRICTORS MUST NOT BE INSTALLED IN CATCH BASINS IN CLOSE PROXIMITY TO VIADUCT AREAS, BUS STOPS, OR EMERGENCY ENTRANCES. THE DWM MUST APPROVE THE NON-INSTALLATION OR REMOVAL OF ANY RESTRICTOR. REQUIREMENTS FOR RESTRICTOR INSTALLATION ARE AS FOLLOWS:

*ARTERIAL STREETS: 3-INCH ORIFICE RESTRICTOR
*BUS ROUTES: 3-INCH ORIFICE RESTRICTOR
*RESIDENTIAL STREETS: 3-INCH VORTEX RESTRICTOR
*ALLEYS: 3-INCH ORIFICE RESTRICTOR IN THE LAST CB.
*CLOSED LIDS ARE REQUIRED ON ALL MANHOLES EXCEPT AT INTERSECTIONS WHERE A PERFORATED LID SHALL BE USED.



NOTE:
1. FOR TRENCH BACKFILL, REFER TO IDOT SSRBC, ARTICLE 1003.04.

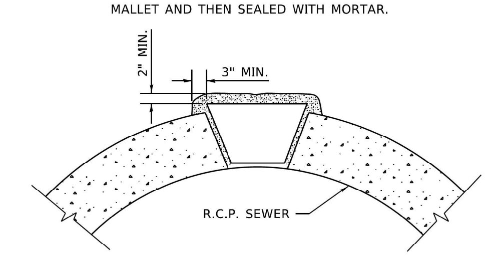
2. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

3. FOR STABILIZATION STONE, 12" OF CA-1 STONE IS ONLY REQUIRED WHEN UNSTABLE MATERIAL IS ENCOUNTERED AT TRENCH BOTTOM.

4. AGGREGATE PLACED FOR TEMPORARY SURFACE RESTORATION WILL NOT BE PAID SEPARATELY AND SHALL BE INCIDENTAL TO THE CONTRACT.

SEWER TRENCH DETAIL

NOTE:
PLUG TO BE COATED WITH MORTAR AND DRIVEN INTO PLACE WITH A WOODEN MALLET AND THEN SEALED WITH MORTAR.



LIFTING HOLE PLUG DETAIL FOR CONCRETE PIPE

NOTE:
1. ALL PLUG MATERIALS MUST COMPLY WITH 1042.16 OF THE IDOT SSRBC.

2. LIFT HOLES ON COMBINED SEWERS ARE PROHIBITED WHEN THE WATER TABLE IS WITHIN 2 FEET OF THE PIPE INVERT, OR IF THE PIPE IS FULLY SUBMERGED UNDER NORMAL CONDITIONS.

USER NAME = Lawrence.DeManche	DESIGNED - M. GOMEZ	REVISED - K. SMITH 11-18-22	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
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CITY OF CHICAGO
MISCELLANEOUS DETAILS
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD600–13 (BD–47)	CONTRACT NO.			

ILLINOIS | FED. AID PROJECT

MODEL: Default
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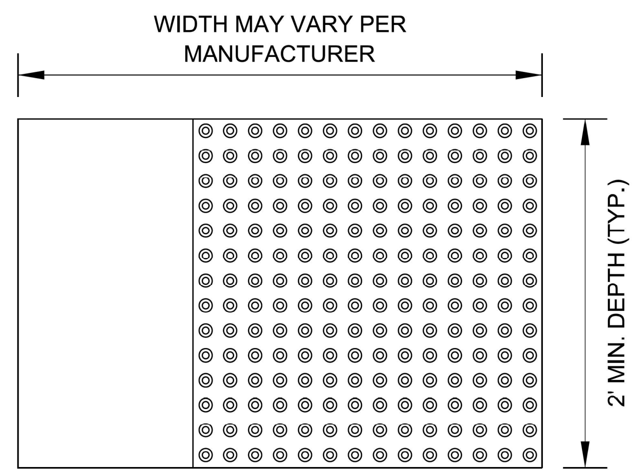
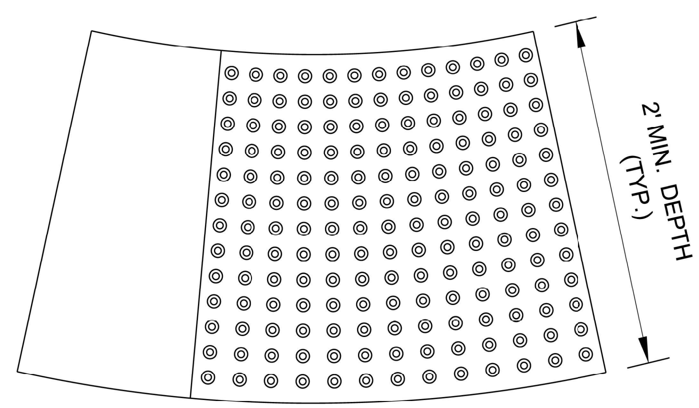
STRAIGHT DETECTABLE WARNING UNITS



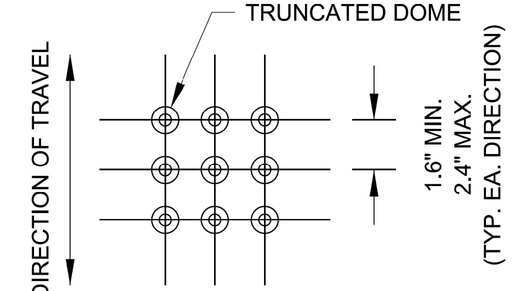
RADIAL DETECTABLE WARNING UNITS



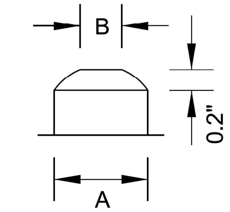
DETECTABLE WARNING UNIT SIZES

- VERIFY ALL DIMENSIONS WITH THE PRODUCT MANUFACTURER.
- IF USING RADIAL UNITS, VERIFY THAT THE CURB RADIUS MATCHES AVAILABLE UNIT RADII WITH THE PRODUCT MANUFACTURER.

GENERAL NOTE:
THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED TRANSITIONS OR FLUSH TRANSITIONS, WHERE RADIAL UNITS ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT.



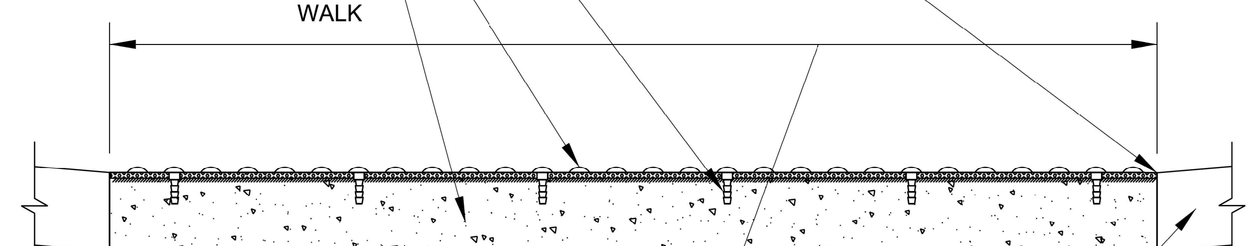
SQUARE PATTERN
(PARALLEL ALIGNMENT)



A = 0.9" MIN.
1.4 MAX.
B = 50% OF (A) MIN. 65% OF (A) MAX.

TRUNCATED DOME DETAIL

UNIT PATTERN & DOME DETAIL



*A BORDER OF 2 INCHES OR LESS AROUND THE DETECTABLE WARNING SURFACE IS ACCEPTABLE IF REQUIRED FOR PROPER INSTALLATION OF THE DETECTABLE WARNING SURFACE PRODUCT

DETECTABLE WARNING UNIT SECTION

MODEL: Default

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	DRAWN -	REVISED -	
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PLOT DATE = 10/8/2019	DATE - 06-20-2017	REVISED -	

CITY OF CHICAGO
DETECTABLE WARNINGS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD 58		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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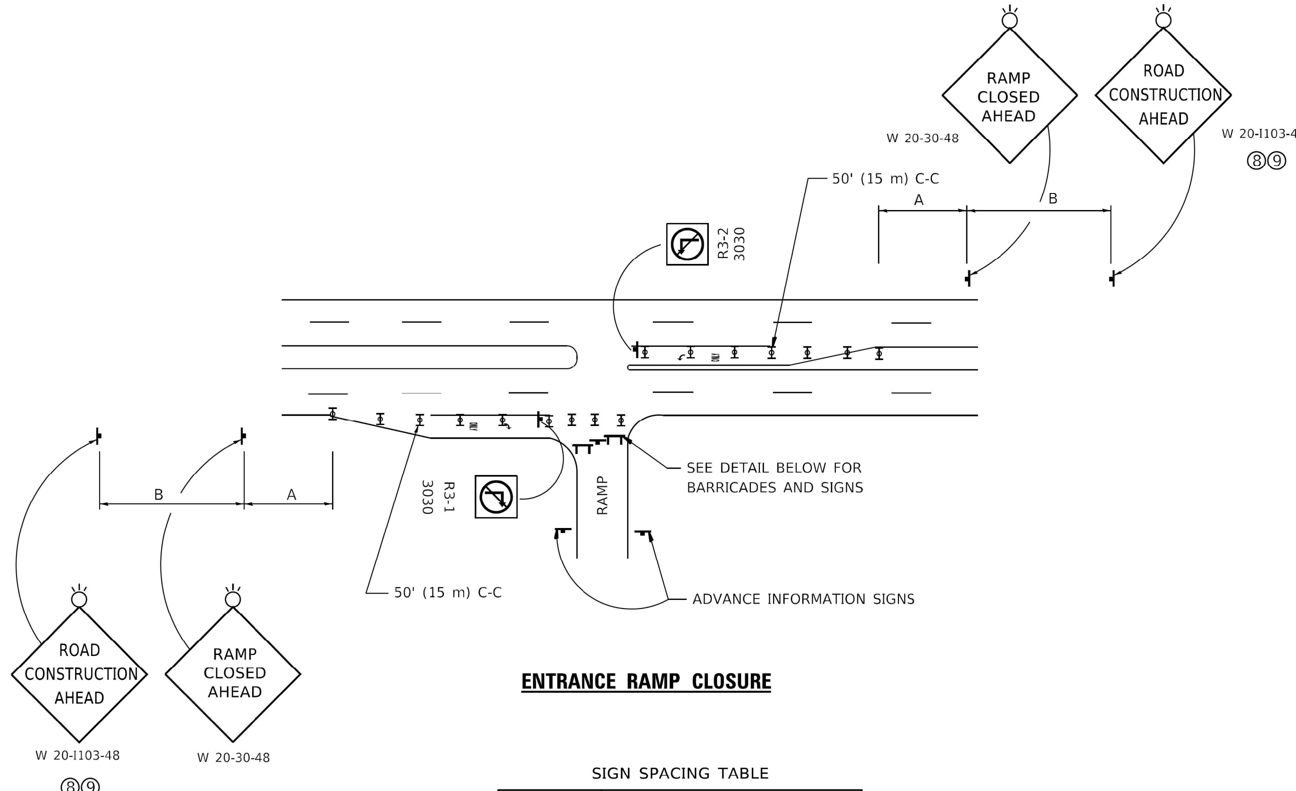
DISTRICT ONE DETAILS
BD–58

SCALE: | SHEET 6 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	146
		CONTRACT NO. 62P43		
ILLINOIS FED. AID PROJECT				

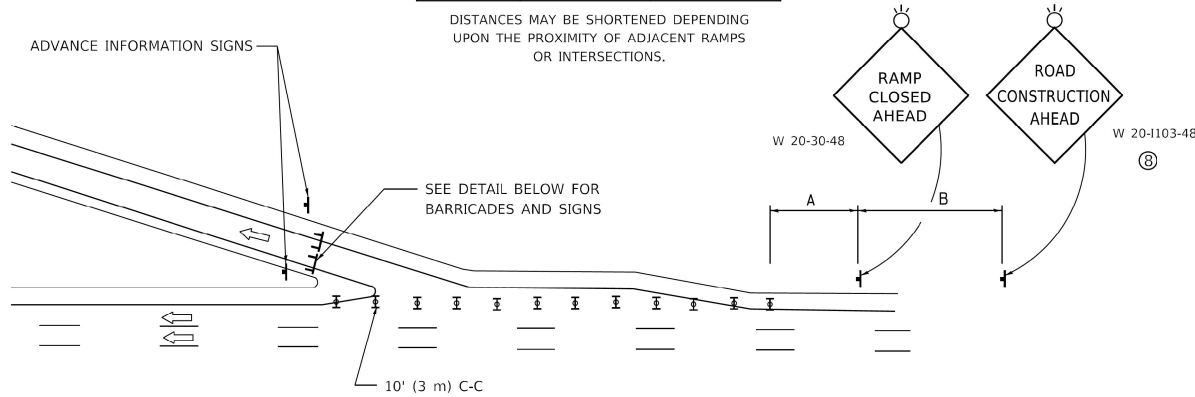


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS A	DISTANCE BETWEEN SIGNS B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

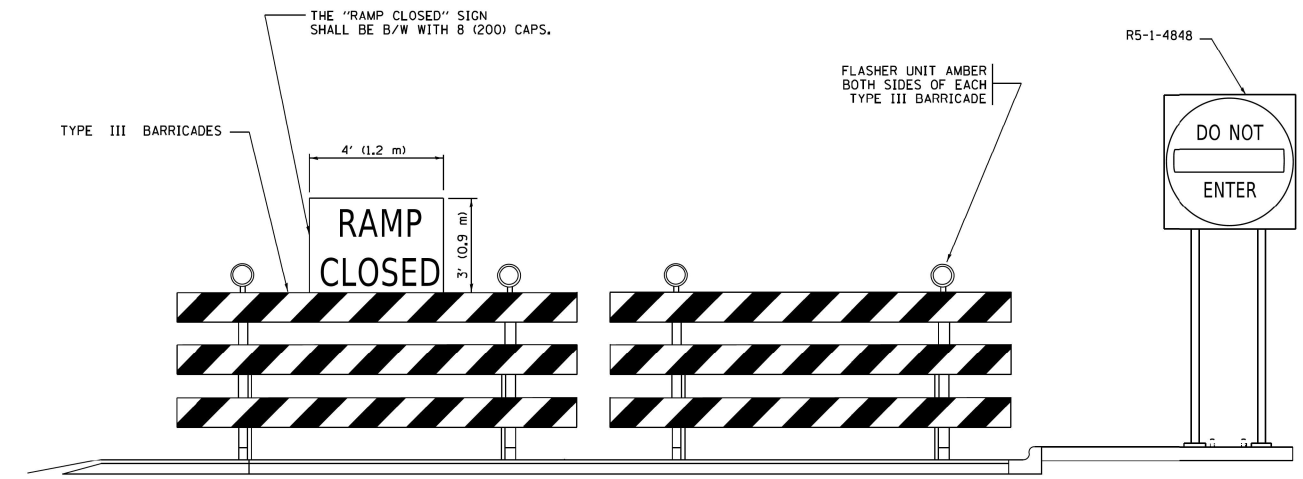


EXIT RAMP CLOSURE

SYMBOLS

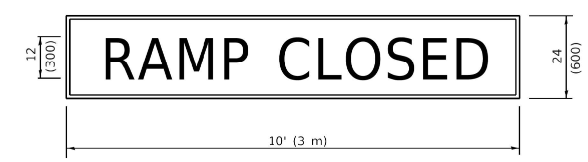
TYPE II BARRICADE OR DRUM

TYPE III BARRICADE WITH 2 FLASHING LIGHTS



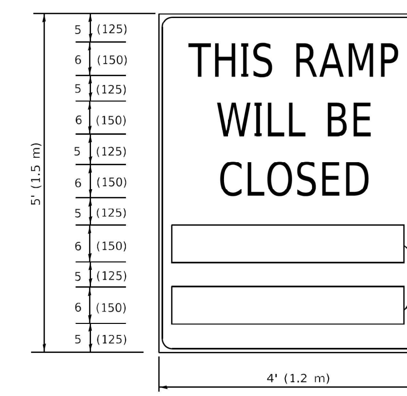
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

½ (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
8. ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
9. ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

USER NAME = Lawrence.DeManche	DESIGNED - D.W.S.	REVISED - S.P.B._12-09	
	DRAWN -	REVISED - M.D._06-13	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M.D._01-18	
PLOT DATE = 5/3/2024	DATE - 02-83	REVISED - D.S._05-24	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE_AND_EXIT_RAMP
CLOSURE_DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

TC-08 | CONTRACT NO. | ILLINOIS FED. AID PROJECT

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -
	DRAWN - CM	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAILS
TC-08

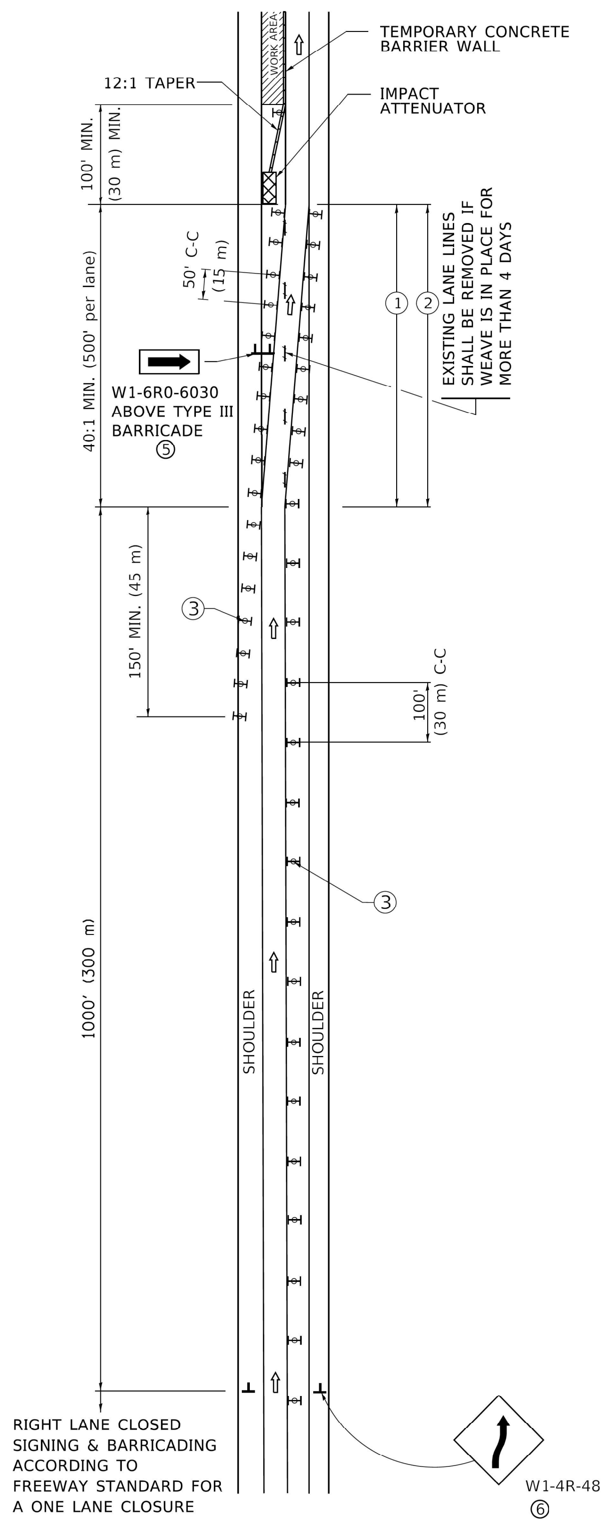
SCALE: | SHEET 7 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	147

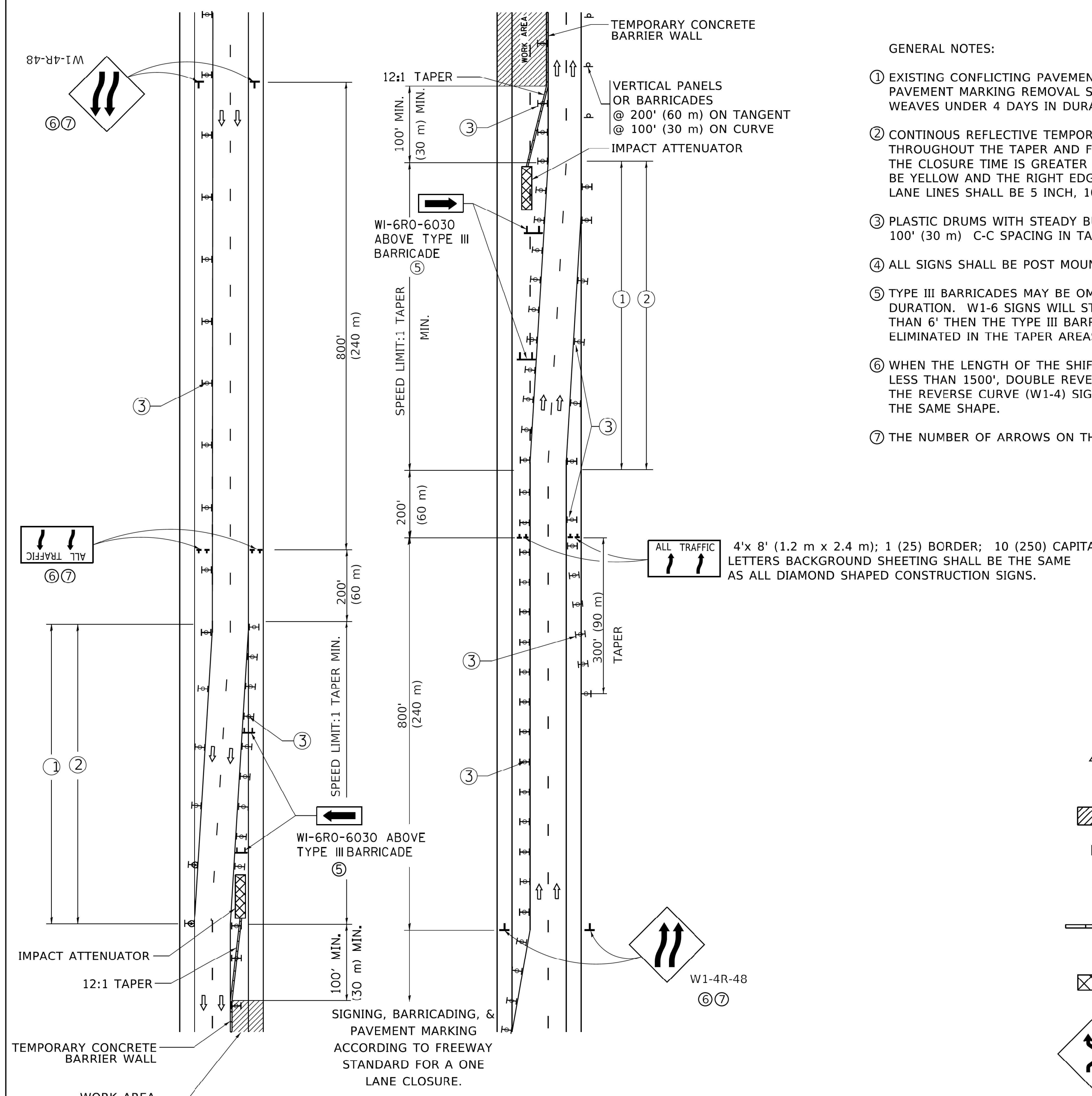
CONTRACT NO. 62P43

ILLINOIS FED. AID PROJECT

SINGLE LANE WEAVE



MULTI–LANE WEAVE



GENERAL NOTES:

① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

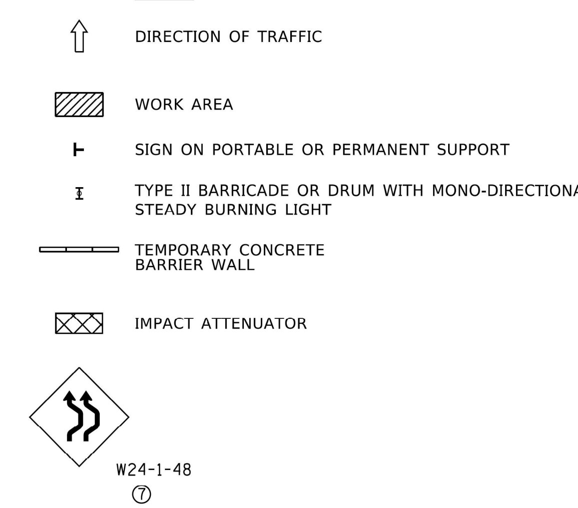
④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

⑤ TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.

⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
	DRAWN -	REVISED - S.P.B. 01-07		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 12-09		TC-09
PLOT DATE = 3/4/2019	DATE - 02-87	REVISED - M.D. 06-13		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

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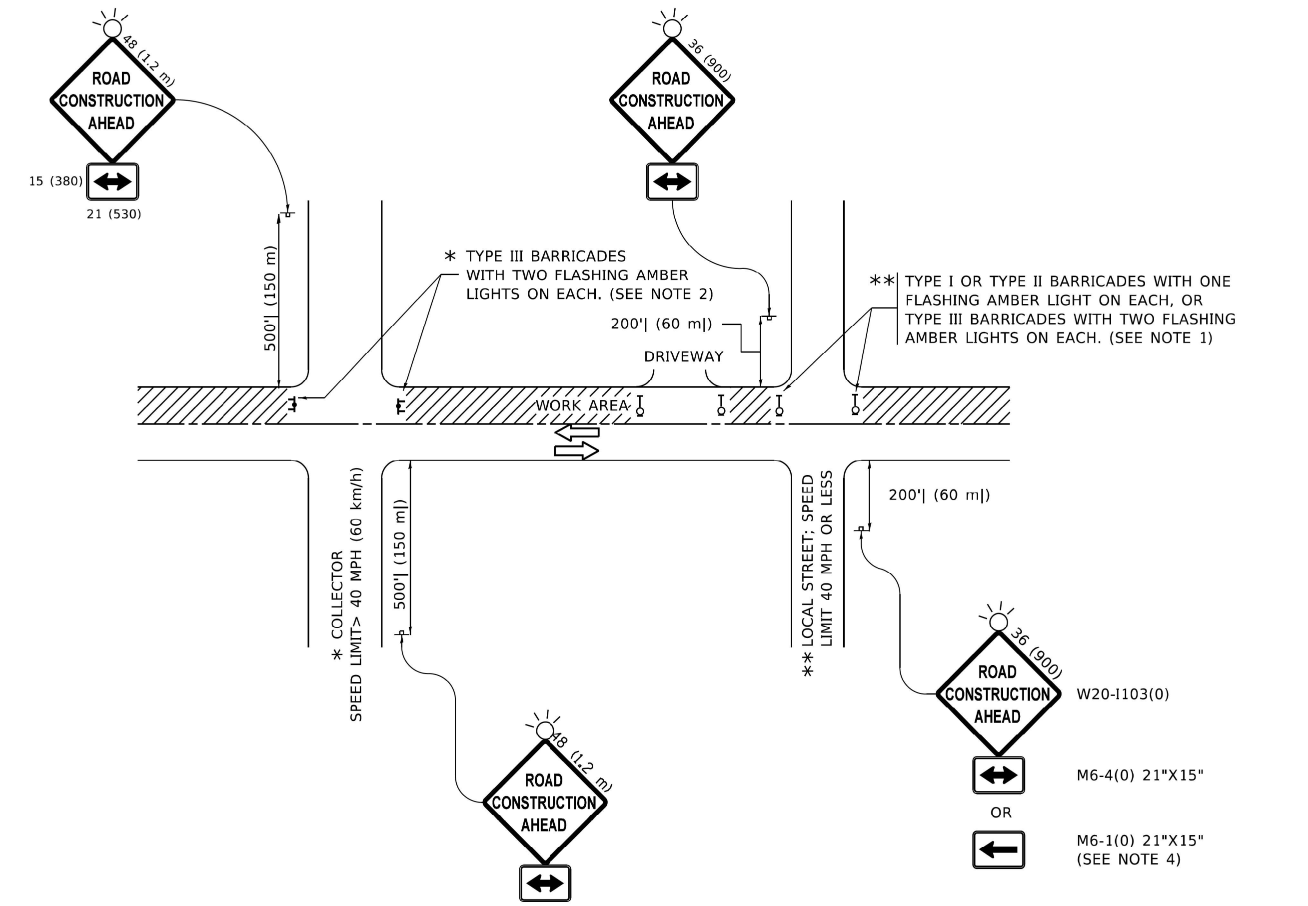
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	148
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) 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.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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USER NAME = Lawrence.DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - A. SCHUETZE 07-01-13	
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PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24	

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

TC-10 | CONTRACT NO.

ILLINOIS | FED. AID PROJECT

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CM	REVISED -	
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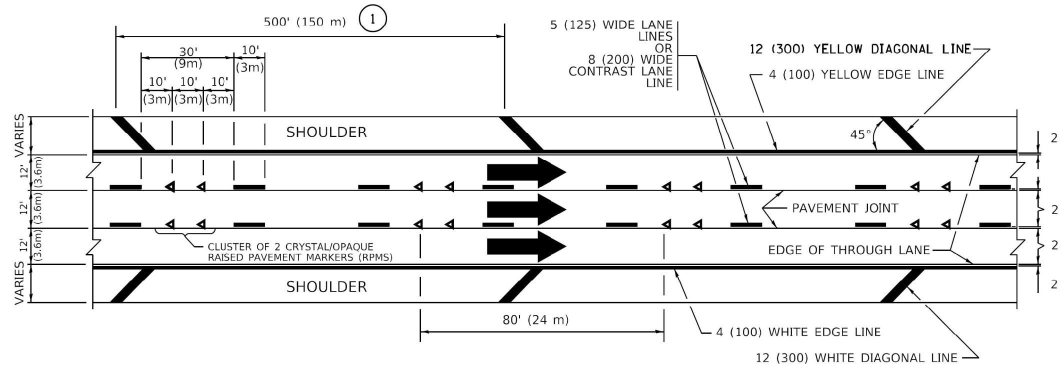
DISTRICT ONE DETAILS
TC-10

SCALE: | SHEET 9 OF 18 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	149

CONTRACT NO. 62P43

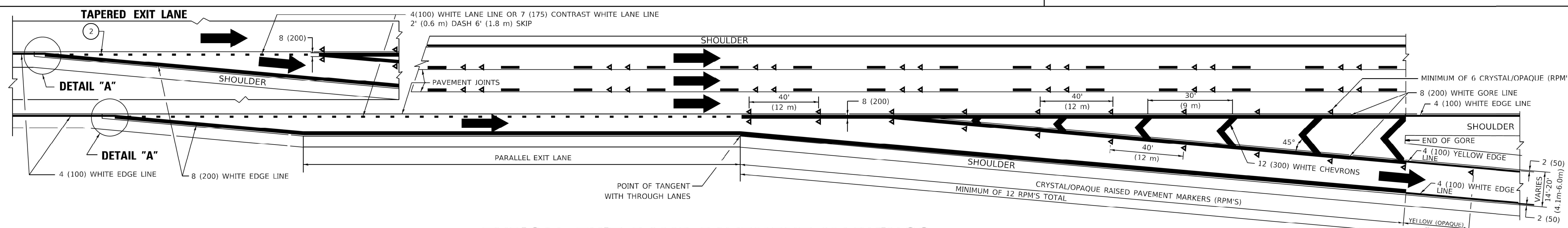
ILLINOIS | FED. AID PROJECT



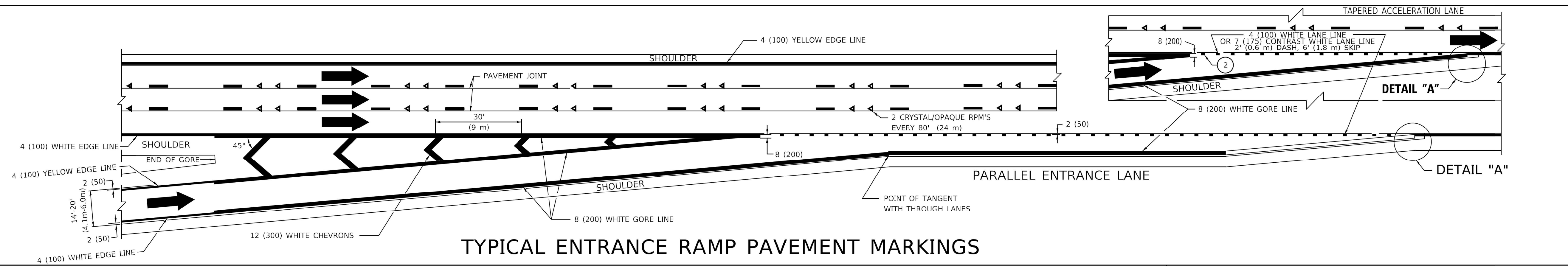
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

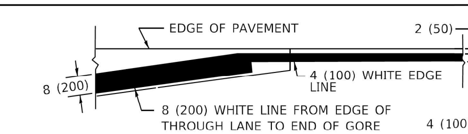
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE D, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



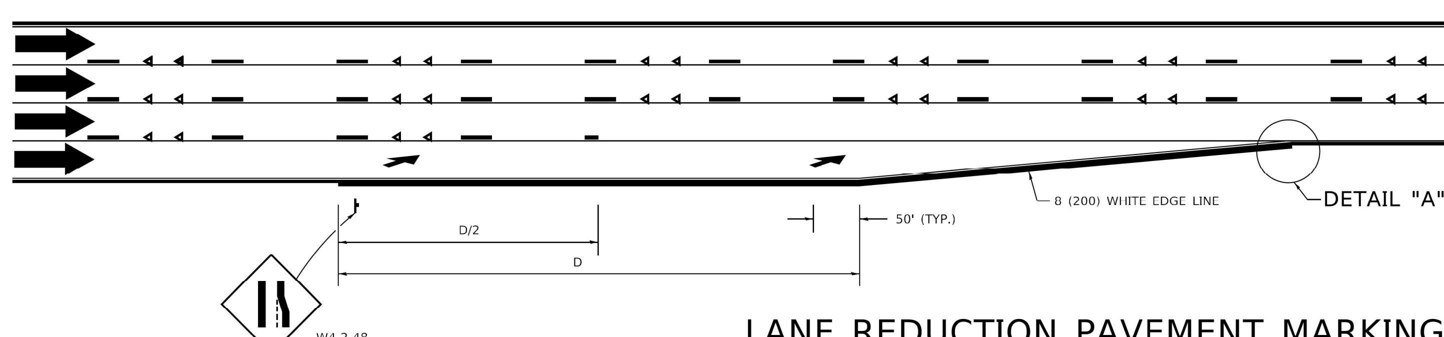
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



DETAIL "A"



POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

LANE REDUCTION PAVEMENT MARKINGS

NOTES:

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

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USER NAME = Lawrence.DeManche	DESIGNED - D.W.S.	REVISED - S.P.B. 01-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS
	DRAWN -	REVISED - M.D. 05-13		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M.D. 09-17		
PLOT DATE = 11/18/2022	DATE - 01-90	REVISED - K. SMITH 11-18-22		SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-12	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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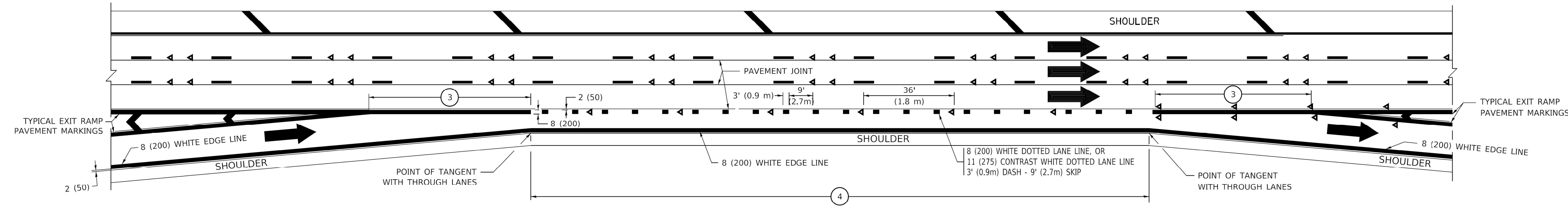
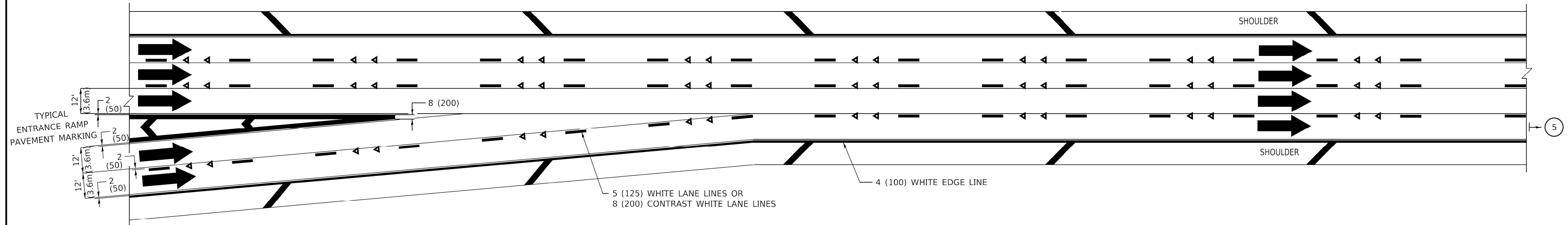
gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE DETAILS TC-12
	DRAWN - CM	REVISED -		
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -		
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -		SCALE: SHEET 10 OF 18 SHEETS STA. TO STA.

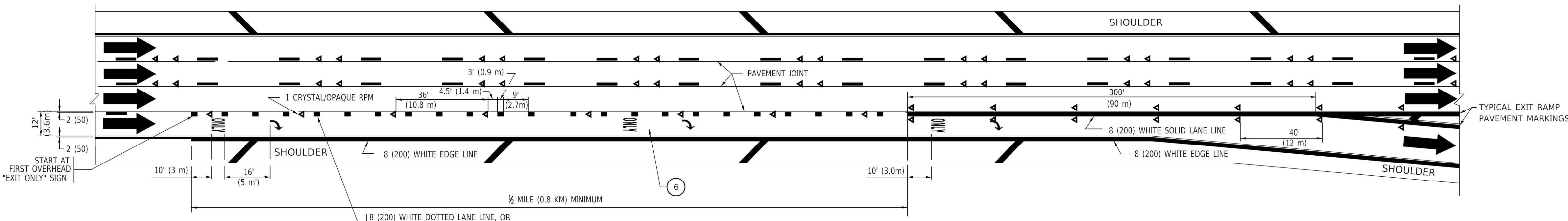
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	150
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



AUXILIARY LANE MARKINGS



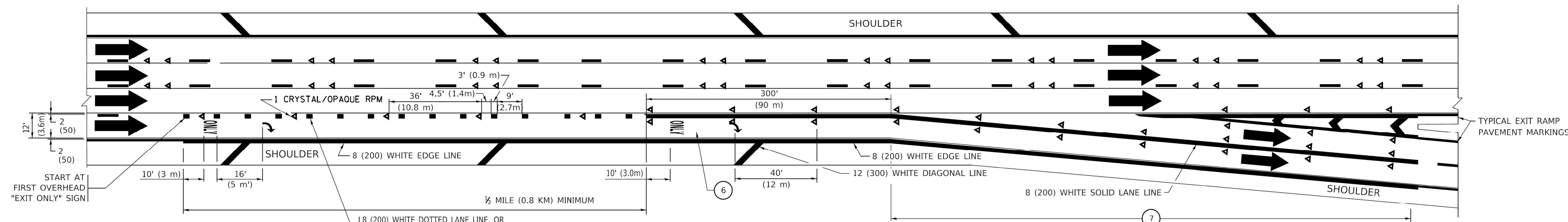
TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS

NOTES:

3. OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
4. 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
5. FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
6. ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED..
7. CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.



EXIT ONLY WITH OPTION LANE MARKINGS

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	DRAWN -	REVISED - S.P.B. 01-07	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - S.P.B. 01-10	
PLOT DATE = 3/4/2019	DATE - 01-90	REVISED - M.D. 09-17	

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-12		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CM	REVISED -	
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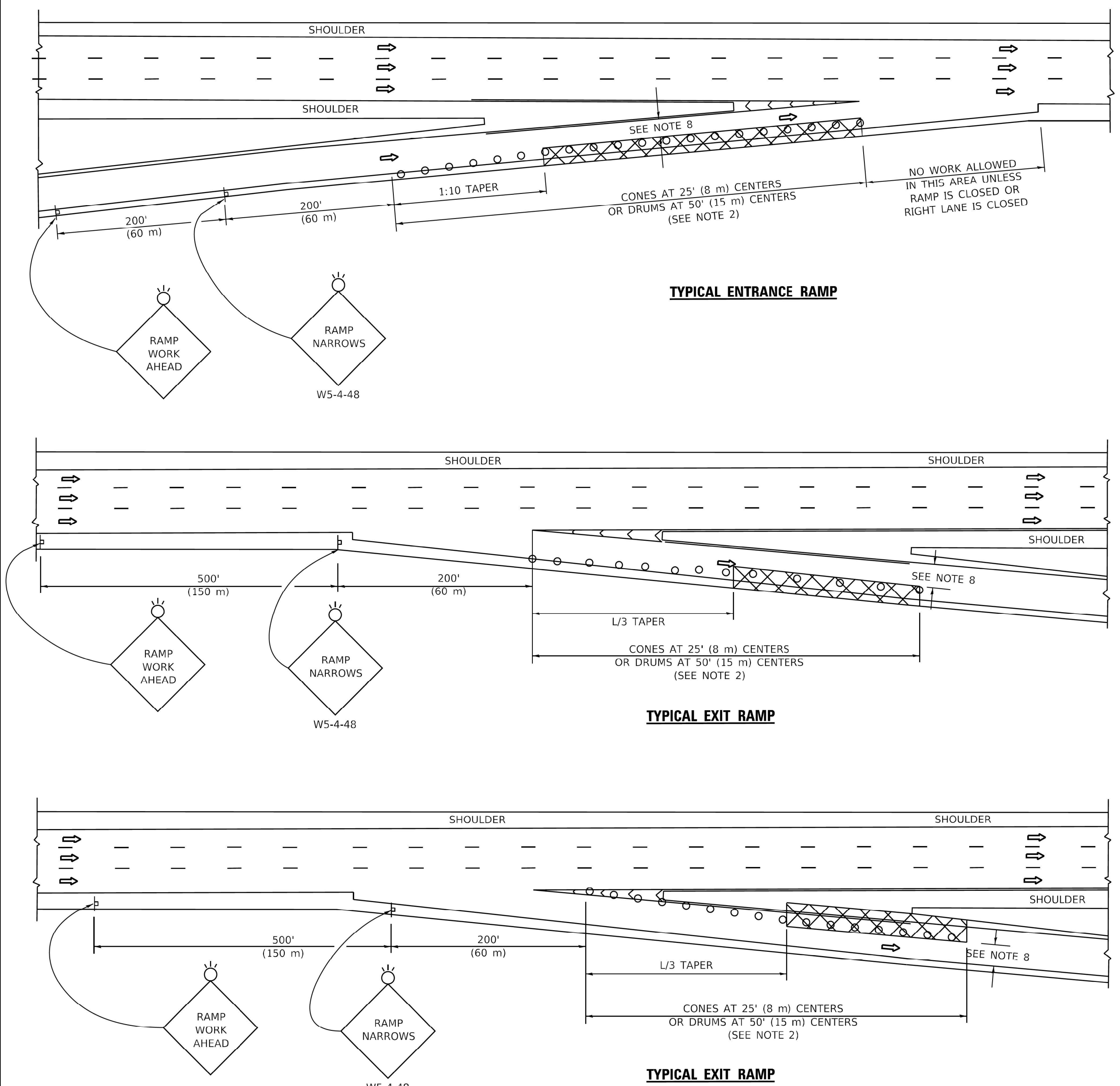
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

DISTRICT ONE DETAILS
TC-12

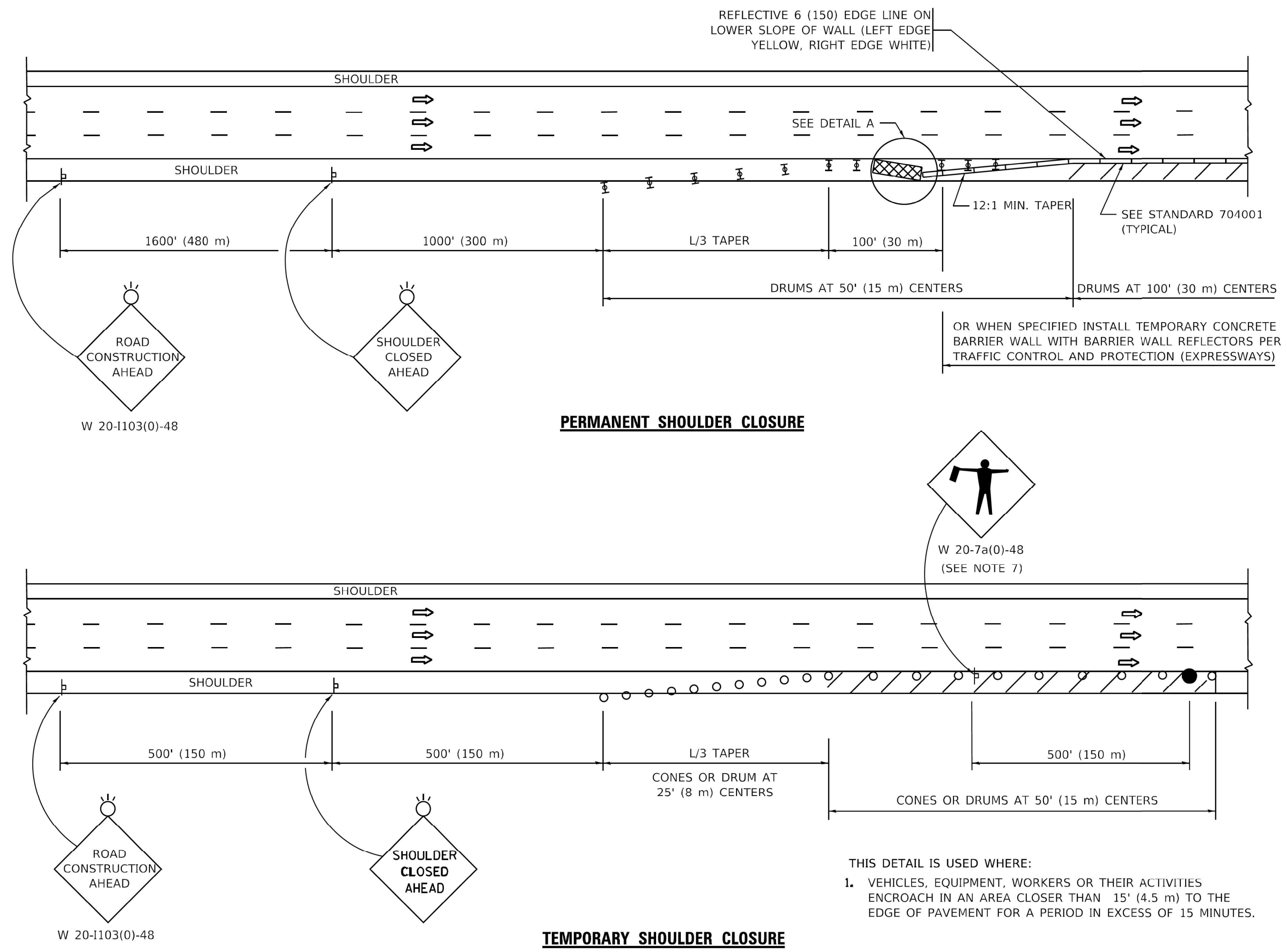
SCALE: | SHEET 11 OF 18 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	151
		CONTRACT NO. 62P43		
		ILLINOIS	FED. AID PROJECT	

PARTIAL RAMP CLOSURE DETAILS

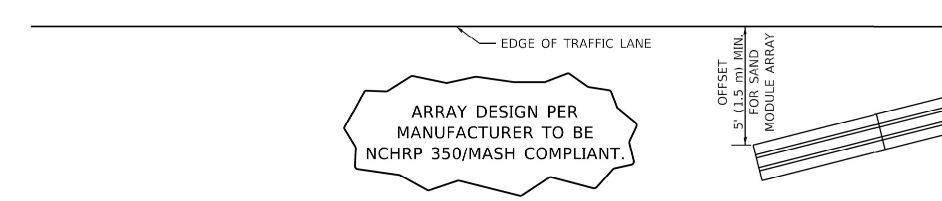


SHOULDER CLOSURE DETAILS



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
IMPACT ATTENTUATOR, TEMPORARY
(SEE NOTE 5)

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS METRIC	ENGLISH
45 mph (80 km/h) OR GREATER:	L=0.65(W)(S)	L=(W)(S)

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)

2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTICLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.

3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.

6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.

7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

8. 12' MIN. WIDTH TANGENT SECTION
   16' MIN. WIDTH CURVE SECTION.

9. TEMPORARY SHOULDER AND NON-SYSTEM INTERCHANGE PARTIAL RAMP CLOSURES ARE ALLOWED WEEKDAYS BETWEEN 9:00 A.M. AND 3:00 P.M. AND BETWEEN 7:00 P.M. AND 5:00 A.M. OR AS APPROVED BY THE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER. PERMANENT SHOULDER AND PARTIAL RAMP CLOSURES WILL ONLY BE PERMITTED IF CALLED FOR IN THE PLANS OR AS APPROVED BY THE EXPRESSWAY OPERATIONS ENGINEER.

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

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	DRAWN -	D.W.S.	REVISED - M.D. 01-18		
PLOT SCALE = 100.0000 ' / in.	CHECKED -		REVISED - M.D. 10-20		
PLOT DATE = 5/3/2024	DATE -	11-96	REVISED - D.S. 05-24		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC–17	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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gonzalez GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014	USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE DETAILS TC-17
		DRAWN - CM	REVISED -		
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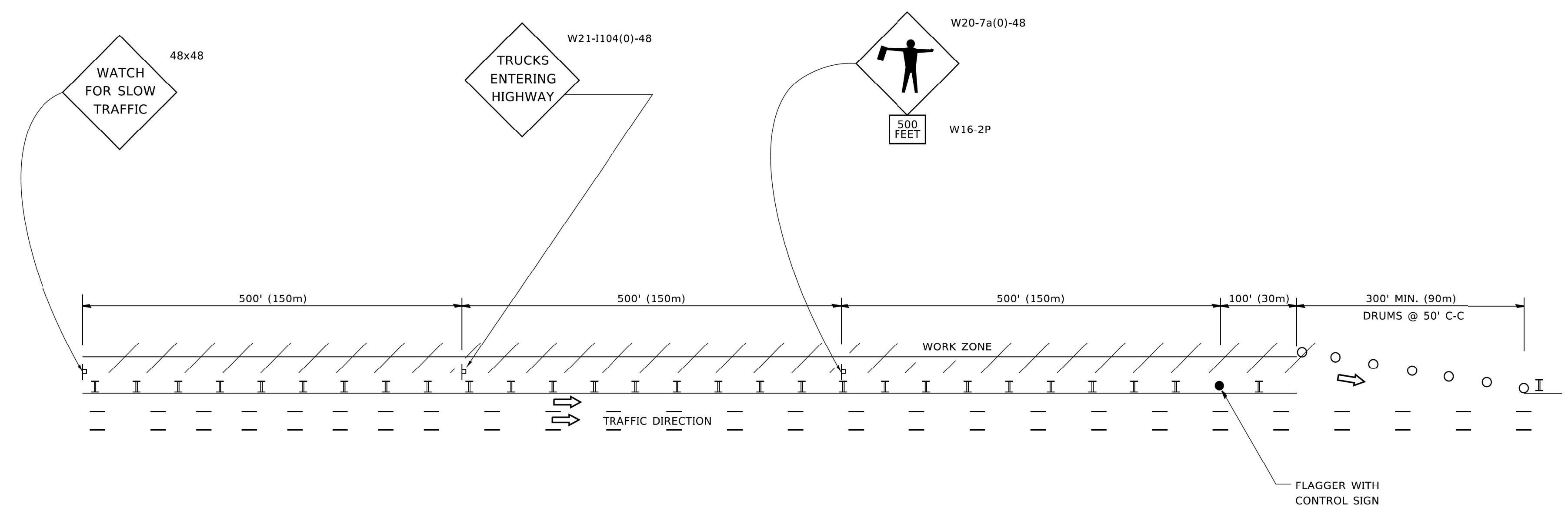
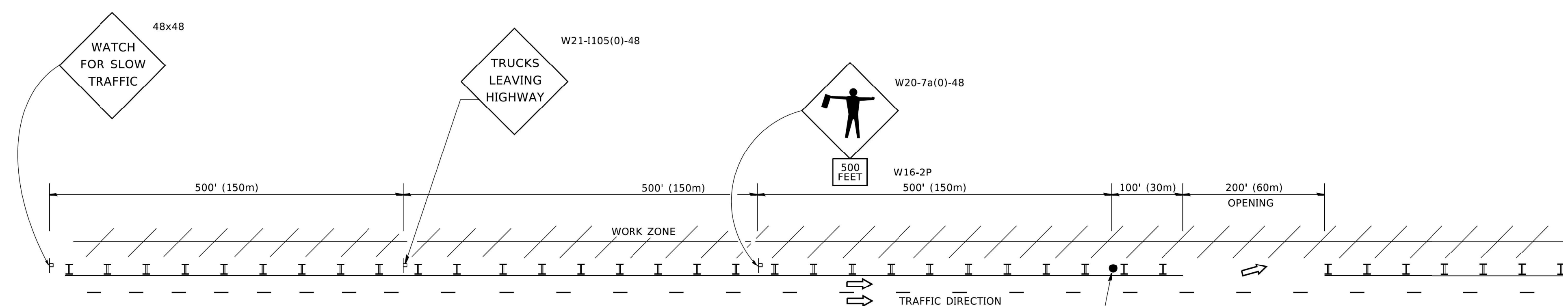
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	152
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



FLAGGER WITH CONTROL SIGN

NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT DATE = 3/4/2019	DATE -	REVISED - M.D.06-13	

FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-18	CONTRACT NO.		

ILLINOIS | FED. AID PROJECT

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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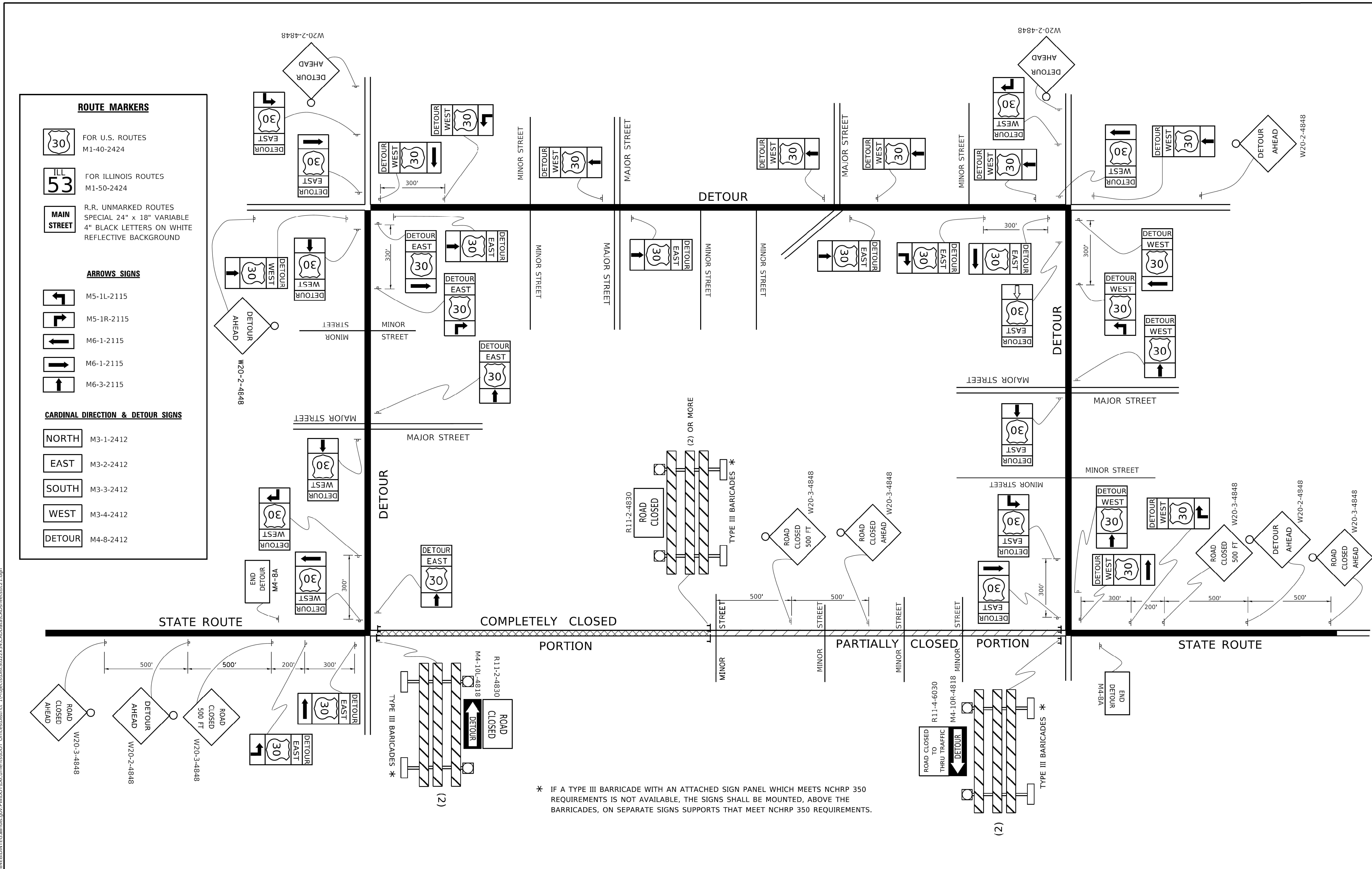
DISTRICT ONE DETAILS

TC-18

SCALE: | SHEET 13 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	153
		CONTRACT NO. 62P43		

ILLINOIS | FED. AID PROJECT



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PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-21		CONTRACT NO.		

ILLINOIS | FED. AID PROJECT

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
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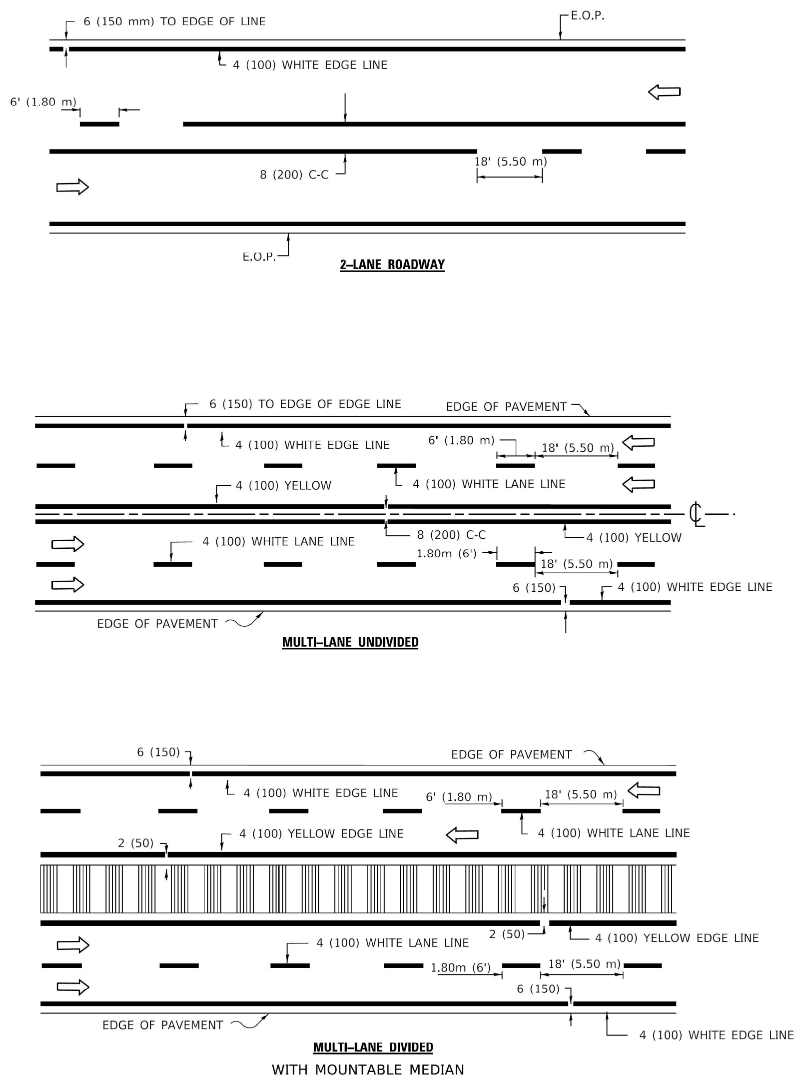
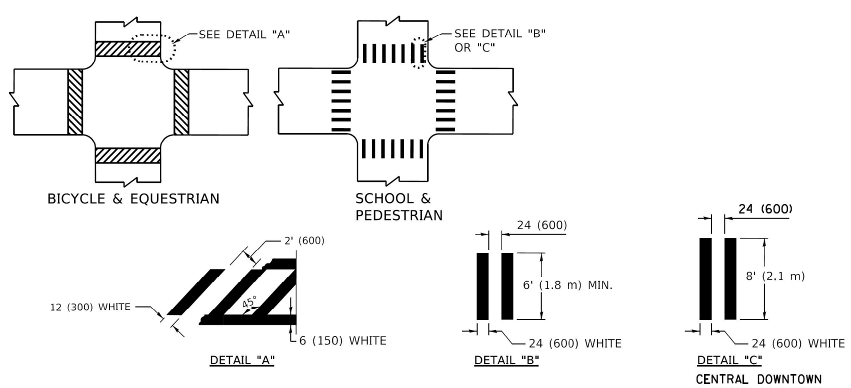
DISTRICT ONE DETAILS
TC-21
SCALE: | SHEET14 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	154

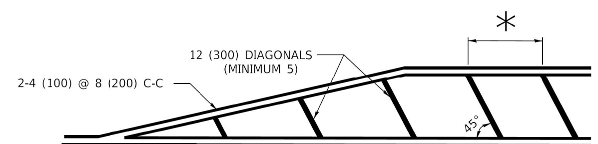
CONTRACT NO. 62P43
ILLINOIS | FED. AID PROJECT



TYPICAL LANE AND EDGE LINE MARKING



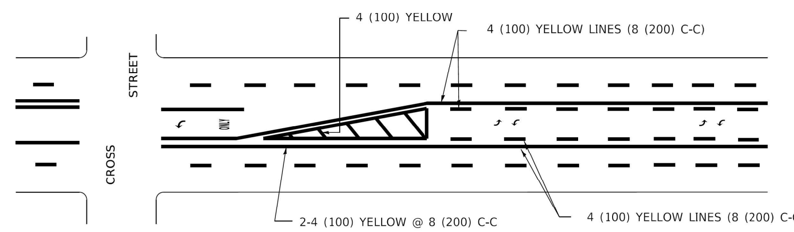
TYPICAL CROSSWALK MARKING



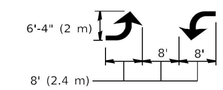
* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

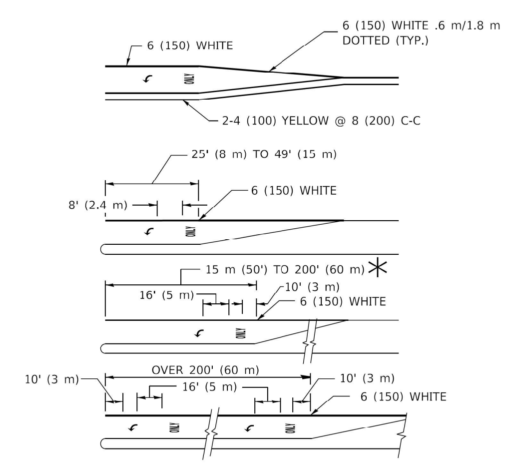


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

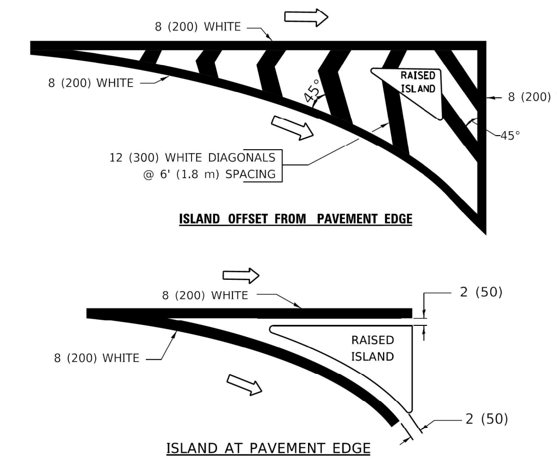


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.8 SQ. FT. (1.47 m²) ONLY AREA = 22.9 SQ. FT. (2.13 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 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) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) 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: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m²) EACH "X"=54.0 SQ. FT. (5.0 m²)

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 12-07-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS
	DRAWN -	REVISED - K. ENG 02-28-12		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-24		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADSheets\tc24.dgn

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MODEL: Default
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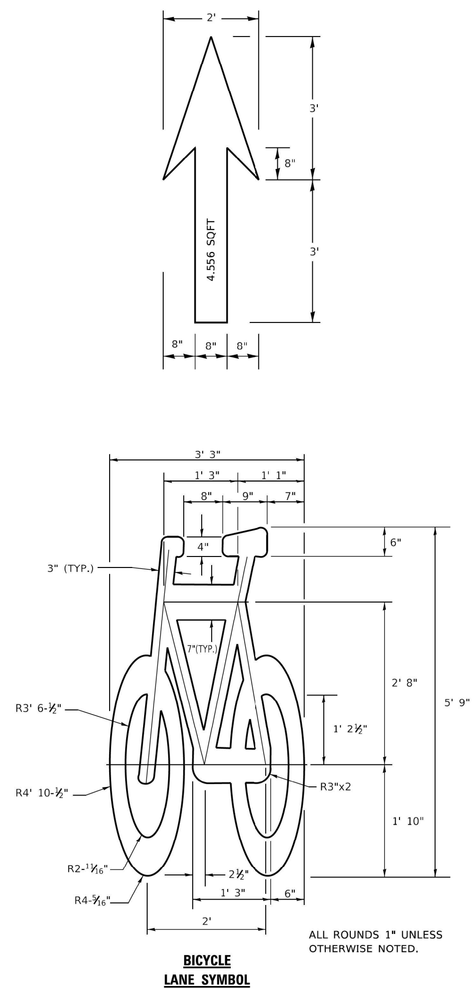
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE DETAILS TC-24
	DRAWN - CM	REVISED -		
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -		
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -		SCALE: SHEET 15 OF 18 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	155
		CONTRACT NO. 62P43		
ILLINOIS FED. AID PROJECT				

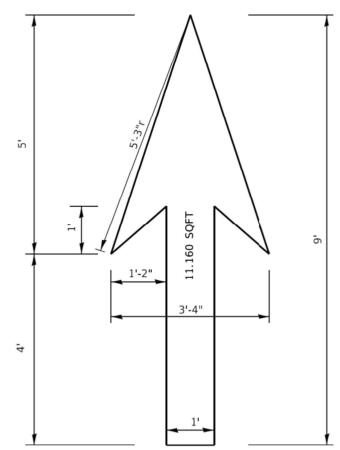


NOTE:

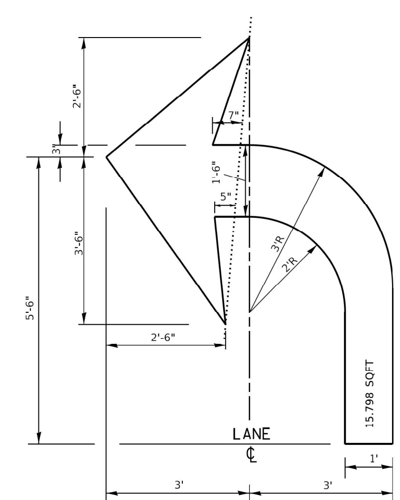
1. FOR BIKE LANE SYMBOLS ONLY.
   USE PRE-FORMED THERMOPLASTIC
   WITH A MINIMUM THICKNESS OF 90 MILS,
   MINIMUM SKID RESISTANCE VALUE OF 60 BPN,
   & A MINIMUM INDEX OF REFRACTION OF 1.50.
2. THE RESIDENT ENGINEER SHALL CONTACT
   MR. BEN GOMBERG AT 312-744-8093 AT
   LEAST ONE CALENDAR WEEK PRIOR TO
   INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28

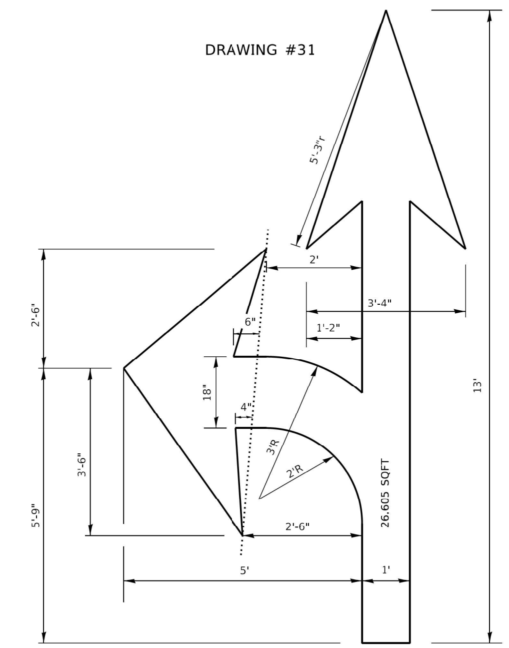
DRAWING #29



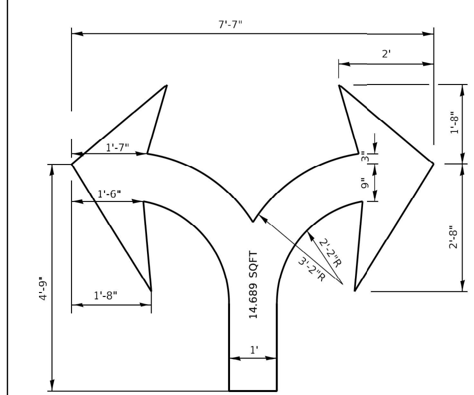
DRAWING #30



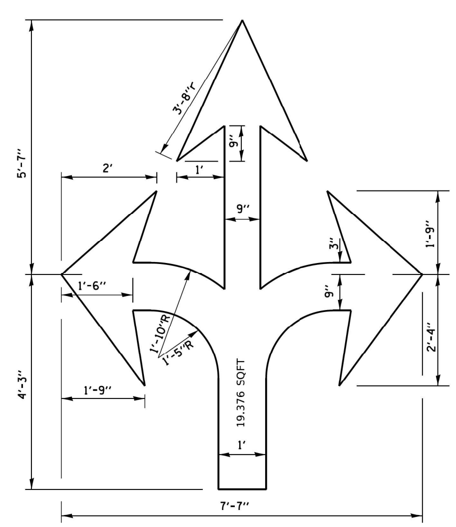
DRAWING #31



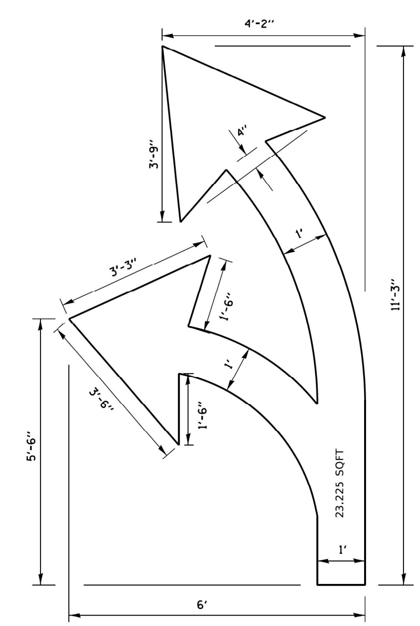
DRAWING #32



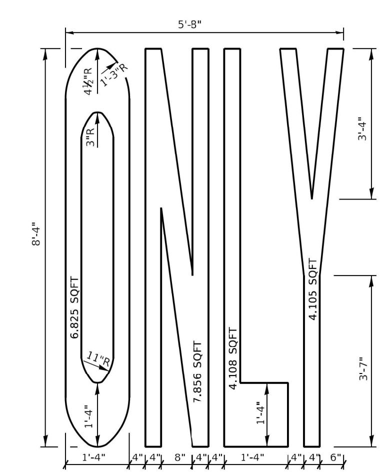
DRAWING #33



DRAWING #34



DRAWING #35



NOTE:

ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 12-07-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE -	REVISED -	

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

TC-24 | CONTRACT NO. | ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADsheets\tc24.dgn

GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CM	REVISED -	
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -	
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

DISTRICT ONE DETAILS
TC-24

SCALE: | SHEET 16 OF 18 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	156

CONTRACT NO. 62P43
ILLINOIS | FED. AID PROJECT

DATE PLOTTED = 12/11/2024 2:50:25 PM
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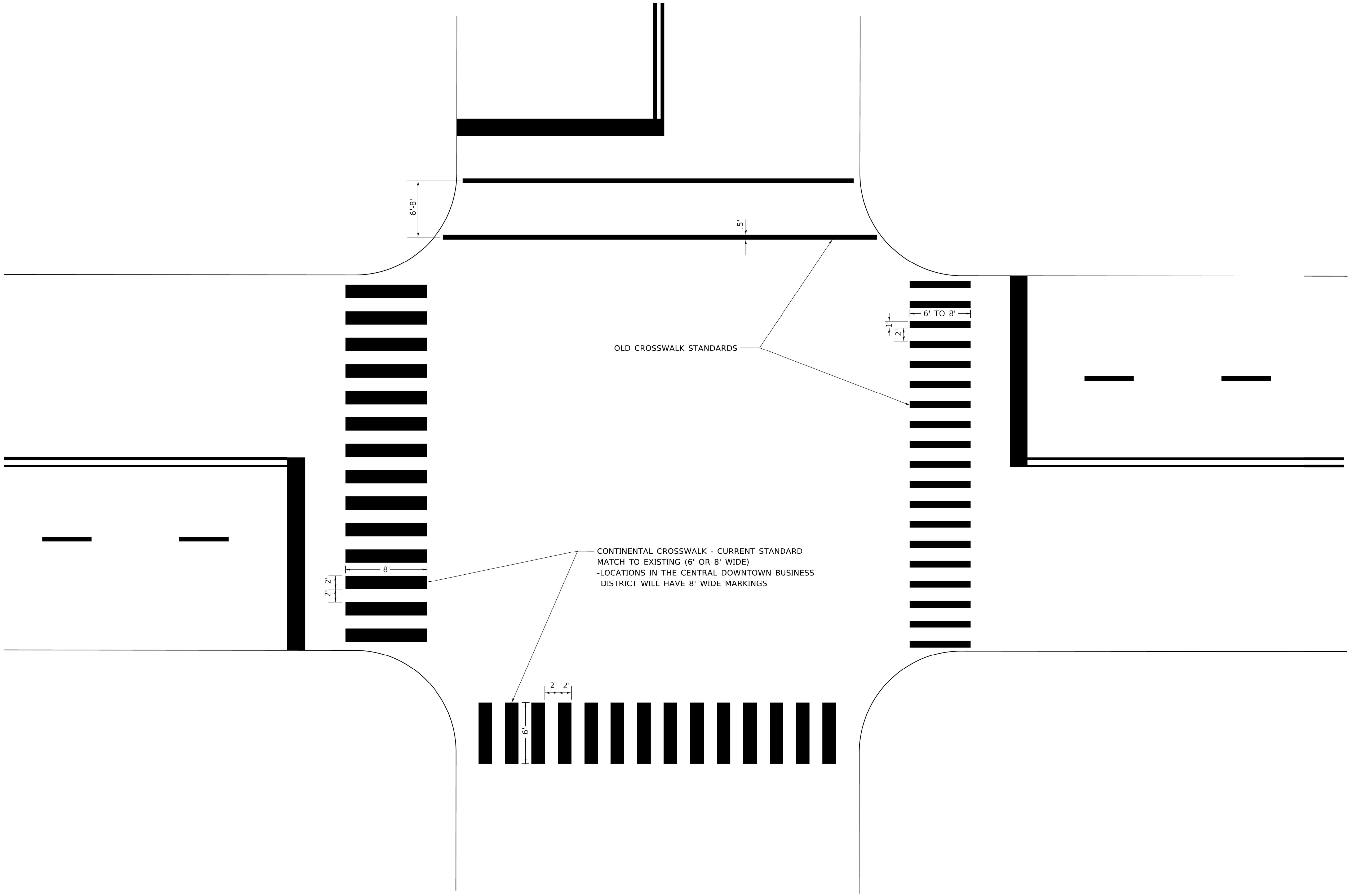
PLOT CONFIG = pdfNOLAYERSbw.pltcfg
MODEL: Default



USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 12-07-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS
	DRAWN -	REVISED -		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-24	CONTRACT NO.			
	ILLINOIS FED. AID PROJECT			

GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

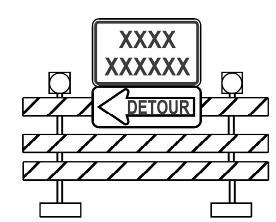
USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE DETAILS TC-24
	DRAWN - CM	REVISED -		
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -		
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -		SCALE: SHEET 17 OF 18 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	157
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		

DATE PLOTTED = 12/11/2024 2:51:29 PM
PEN TABLE = D162P43-PLOTLABEL-Leavitt.TBL
PLOT CONFIG = pdfNOLAYERSbw.pltcfg
MODEL: Default

RAILROAD CROSSING REPAIR DETOUR SIGNING

No.	Sign legend	Designation
1A	ROAD CLOSED AHEAD	W20-3 48"X48"
3A	DETOUR AHEAD	W20-2a 48"X48"
4	ROAD CLOSED 500'	W20-3 48"X48"
5	** / * / DETOUR / (arrow)	M1-I100 24"X24" (STATE ROUTE) M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY USE SEE NOTE 4. M4-8 24"X12" M5-1L 21"X15"
5A	(arrow)	M5-2L 21"X15"
6	** / * / DETOUR / (arrow)	M1-I100 24"X24" (STATE ROUTE) M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY USE SEE NOTE 4. M4-8 24"X12" M6-1L 21"X15"
6A	(arrow)	M6-2L 21"X15"
7	** / * / DETOUR / (arrow)	M1-I100 24"X24" (STATE ROUTE) M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY USE SEE NOTE 4. M4-8 24"X12" M6-3 21"x15"
8	** / * / DETOUR / (arrow)	M1-I100 24"X24" (STATE ROUTE) M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY USE SEE NOTE 4. M4-8 24"X12" M5-1R 21"X15"
8A	(arrow)	M5-2R 21"X15"
9	** / * / DETOUR / (arrow)	M1-I100 24"X24" (STATE ROUTE) M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY USE SEE NOTE 4. M4-8 24"X12" M6-1R 21"X15"
9A	(arrow)	M6-2R 21"X15"
10	ROAD CLOSED AT RR CROSSING LOCAL TRAFFIC ONLY	R11-3a 60"X30"
11	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	R11-3a 60"X30"
12	ROAD CLOSED	R11-2 48"X30"
13	DETOUR (right arrow)	M4-10R 48"X18"
14	DETOUR (left arrow)	M4-10L 48"X18"
15	END DETOUR	M4-8a 24"X18"
17	* / CLOSED AT RAILROAD CROSSING (4' x 5', 5", 6")	M1-I100 24"X24" (STATE ROUTE) M1-4 24"X24" (US ROUTE) FOR FREEWAY/EXPRESSWAY USE SEE NOTE 4. 5" LETTER MIN. BLACK LETTERS ON ORANGE BACKGROUND
18	RAILROAD REPAIRS BEGIN DATE TIME (4' x 5', 5", 6")	5" LETTER MIN. BLACK LETTERS ON ORANGE BACKGROUND
19	THIS ROAD WILL BE CLOSED FOR XX DAYS (4' x 5', 5", 6")	5" LETTER MIN. BLACK LETTERS ON ORANGE BACKGROUND
20	(no left turn)	R3-2 24"X24"
21	(no right turn)	R3-1 24"X24"



TYPE III BARRICADE W/ FLASHING LIGHTS

SEE R11-2, R-11-3a ABOVE

SEE M4-10L, M4-10R ABOVE (AS REQUIRED)

TYPE III BARRICADE W/FLASHING LIGHTS

TYPE A FLASHING LIGHT

NOTES:

1. FOR DETOURS OF UNMARKED ROUTES, SIGNS 5 - 9A SHALL BE MODIFIED TO USE THE M4-9 SIGN SERIES.
2. FOR DETOURS OF MARKED ROUTES, THE ORDER OF THE SIGNS SHOWN IN THE SIGN ASSEMBLIES 5 - 9A SHALL BE MODIFIED TO MATCH TYPICAL ASSEMBLY SHOWN BELOW.

   DETOUR / ** / * / (arrow)

3. ANY SIGNS THAT ARE TO BE IN PLACE FOR MORE THAN 4 DAYS MUST HAVE A VERTICAL CLEARANCE OF 7 FEET FROM TOP OF PAVEMENT TO THE BOTTOM OF THE SIGN (5 FEET IN RURAL AREAS). THESE SIGNS SHALL BE POST MOUNTED IN THE GROUND WHERE POSSIBLE PER ARTICLE 701.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND HIGHWAY STANDARD 701901.
4. FOR FREEWAY/EXPRESSWAY USE - M1-I100 36"X36" USED FOR ILLINOIS ROUTES, M1-4 36"X36" FOR U.S. ROUTES, OR ROAD NAMES SIGN WITH 6" LETTER MINIMUM BLACK LETTERS ON ORANGE BACKGROUND.
5. REFER TO DISTRICT DETAIL TC-21 FOR TYPICAL SIGN LAYOUT AND SPACING

* ILLINOIS — M1-I100 24"X24" USED FOR ILLINOIS ROUTES.

M1-4 24"X24" USED FOR U.S. ROUTES.

MAIN STREET — CUSTOM ROAD NAME SIGN WITH 5" MINIMUM UPPERCASE BLACK LETTERS ON ORANGE BACKGROUND.

OR

Main St — WHEN LOWER CASE LETTERS ARE USED, AS SHOWN, THEY SHALL BE ¾ OF THE SIZE OF THE UPPER CASE LETTERS.

FOR FREEWAY/EXPRESSWAY USE - SEE NOTE 4.

**

Sign	Designation
NORTH	M3-1 24"X12"
SOUTH	M3-2 24"X12"
EAST	M3-3 24"X12"
WEST	M3-4 24"X12"

CARDINAL DIRECTION SIGNS SHALL BE USED DIRECTLY ABOVE THE ROUTE MARKER.

USER NAME = footemj	DESIGNED -	REVISED - A. SCHUETZE 09-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAILROAD CROSSING REPAIR DETOUR SIGNING
	DRAWN -	REVISED -		TC-28
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.
PLOT DATE = 3/4/2019	DATE -	REVISED -		CONTRACT NO. ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADSheets\tc28.dgn

gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE DETAILS TC-28	F.A.I. RTE. 290 / SECTION 2021-120-BR / COUNTY COOK / TOTAL SHEETS 178 / SHEET NO. 158
	DRAWN - CM	REVISED -			CONTRACT NO. 62P43
PLOT SCALE = 1.0000 ' / in.	CHECKED - PM	REVISED -		SCALE: SHEET 18 OF 18 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -			

DATE PLOTTED = 12/11/2024 2:52:20 PM
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MODEL: Default
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SIGN DETAIL

1:40

Panel Style: guide_exp_gore.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_gore.ssi

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	Guide Sign 1	
WIDTH x HGHT.	11'–0" x 6'–0"	
BORDER WIDTH	1.5"	
CORNER RADIUS	8"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green /Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White/White

SYMBOL	ROT	X	Y	WID	HT
Exit Arrow (Type A) 2012	315	104.6	16.2	15	24

LETTER POSITIONS (X)

									LENGTH	SERIES/SIZE
E	X	I	T	2	8	A				D 2000
55.4	62.6	71.1	74.2	92.4	103	112.7			67.5	10,12
D	a	m	e	n		A	v	e		EM 2000
8.6	18.8	29.4	43.5	53.2	59.8	69.8	81.2	90.9	88.9	10/7.5
2	0	0	0		W					D 2000
25.4	34.2	43.3	52.4	59.5	69.5				53	10

DATE PLOTTED = 12/11/2024 2:53:36 PM
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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	
	DRAWN - CM	REVISED -	
PLOT SCALE = 1.8342 ' / in.	CHECKED - PM	REVISED -	
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUIDE SIGN DETAILS
SIGN 1

SCALE: | SHEET 1 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	159

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT

SIGN DETAIL

1:40

Panel Style: guide_exp_gore.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	Guide Sign 2	
WIDTH x HGHT.	10'-0" x 7'-6"	
BORDER WIDTH	1.5"	
CORNER RADIUS	8"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green /Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_exp_gore.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

											LENGTH	SERIES/SIZE
E	X	I	T	2	8	B						D 2000
45.1	52.3	60.8	63.9	82.1	92.7	103.5					66.5	10,12
P	a	u	l	i	n	a		S	t			EM 2000
19.2	28.8	39.4	50	56	62	71.7	78.3	88.3	98.5		84.5	10/7.5
A	s	h	l	a	n	d		A	v	e		EM 2000
9.3	20.7	30.4	41	46.1	56.7	66.4	73	83	94.4	104.1	101.4	10/7.5
1/2	M	I	L	E								D 2000
32	59.9	70.1	74.1	81.8							55.9	12,10

DATE PLOTTED = 12/11/2024 2:53:38 PM
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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CM	REVISED -	
PLOT SCALE = 1.8351 ' / in.	CHECKED - PM	REVISED -	
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

GUIDE SIGN DETAILS
SIGN 2

SCALE: | SHEET 2 OF 10 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	160
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:40

Panel Style: guide_exp_gore.ssi
Dimensions are in inches.tenths

SIGN NUMBER	Guide Sign 3
WIDTH x HGHT.	9'-0" x 6'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	8"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

										LENGTH	SERIES/SIZE
E	X	I	T	2	9	A					D 2000
32.3	39.5	48	51.1	69.3	79.9	89.6				67.5	10,12
R	a	c	i	n	e		A	v	e		EM 2000
9.4	19.3	29	38.7	44.7	54.4	61	71	82.4	92.1	89.3	10/7.5
1	M	I	L	E							D 2000
34.2	43.2	53.4	57.4	65.1						37.1	12,10

DATE PLOTTED = 12/11/2024 2:53:38 PM
PEN TABLE = D162P43-PLOTLABEL-Leavitt.TBL
PLOT CONFIG = pdfNOLAYERSbw.pltcfg
MODEL: Default
FILE NAME: pw:\\gocos-pw.bentley.com:gocos-pw-01\Documents\Projects\22-4018.000 PTB 201-012\20 Design\CADD\Sht\D162P43-sht-details-GuideSign.dgn

gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	
	DRAWN - CM	REVISED -	
PLOT SCALE = 1.8352 ' / in.	CHECKED - PM	REVISED -	
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUIDE SIGN DETAILS
SIGN 3

SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	161
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:40

Panel Style: guide_exp_gore.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_gore.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	Guide Sign 4
WIDTH x HGHT.	9'-0" x 6'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	8"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

																																	LENGTH	SERIES/SIZE
E	X	I	T	2	6	B																												D 2000
32.5	39.7	48.2	51.3	69.5	80	90.8																											66.5	10,12
H	o	m	a	n		A	v	e																										EM 2000
9.2	19.8	29.7	43.8	54.4	61	71	82.4	92.1																									89.5	10/7.5
1	1/4	M	I	L	E	S																												D 2000
17.6	26.6	54.5	64.7	68.7	76.4	83.6																											72.7	12,10

gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	
	DRAWN - CM	REVISED -	
PLOT SCALE = 1.8342 ' / in.	CHECKED - PM	REVISED -	
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUIDE SIGN DETAILS
SIGN 4

SCALE: | SHEET 4 OF 10 SHEETS | STA. | TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	162
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

SIGN DETAIL

1:40

Panel Style: guide_exp_gore.ssi

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	Guide Sign 5	
WIDTH x HGHT.	11'-0" x 6'-0"	
BORDER WIDTH	1.5"	
CORNER RADIUS	8"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green /Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

														LENGTH	SERIES/SIZE
E	X	I	T	2	7	B									D 2000
58.8	66	74.5	77.6	95.8	106	116.4								65.8	10,12
C	a	l	i	f	o	r	n	i	a		A	v	e		EM 2000
8.4	18.4	29	35	40	46.4	56.3	63.7	74.3	79.4	86	96	107.4	117.1	115.3	10/7.5
1/4	M	I	L	E											D 2000
37.3	65.2	75.4	79.4	87.1										55.9	12,10

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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	DRAWN - CM	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUIDE SIGN DETAILS
SIGN 5

SCALE: SHEET 5 OF 10 SHEETS STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	163

CONTRACT NO. 62P43

ILLINOIS FED. AID PROJECT

SIGN DETAIL

1:40

Panel Style: guide_exp_gore.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_gore.ssi
Dimensions are in inches.tenths

SIGN NUMBER	Guide Sign 6	
WIDTH x HGHT.	11'-6" x 9'-0"	
BORDER WIDTH	1.5"	
CORNER RADIUS	8"	
MOUNTING	Overhead	
BACKGROUND	TYPE:	Reflective
	COLOR:	Green /Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	White/White

SYMBOL	ROT	X	Y	WID	HT
Exit Arrow (Type A) 2012	315	108.7	13.6	15	24

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES/SIZE
E	X	I	T	2	7	C						D 2000
63.6	70.8	79.3	82.4	100.6	110.8	121					65.6	10,12
O	a	k	l	e	y		B	l	v	d		EM 2000
15.4	25.9	36.5	46.2	51.3	59.9	68.4	78.4	89.3	94.2	103.9	95.1	10/7.5
2	3	0	0		W							D 2000
36.2	45.8	54.6	63.7	70.8	80.8						53.5	10
W	e	s	t	e	r	n		A	v	e		EM 2000
9.2	21.3	29.9	38.6	46.1	55.8	63.2	69.8	79.8	91.2	100.9	98.3	10/7.5
2	4	0	0		W							D 2000
31.9	39.9	49.6	58.7	65.8	75.8						52.8	10

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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	DRAWN - CM	REVISED -	
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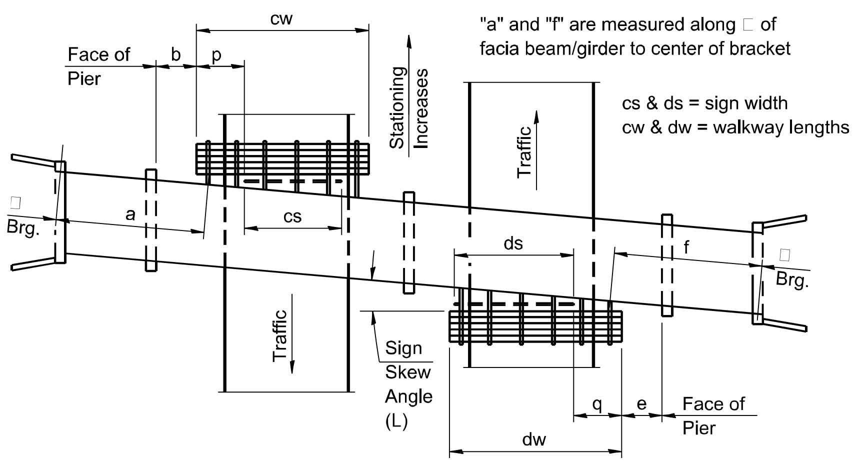
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUIDE SIGN DETAILS
SIGN 6

SCALE: | SHEET 6 OF 10 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	164
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

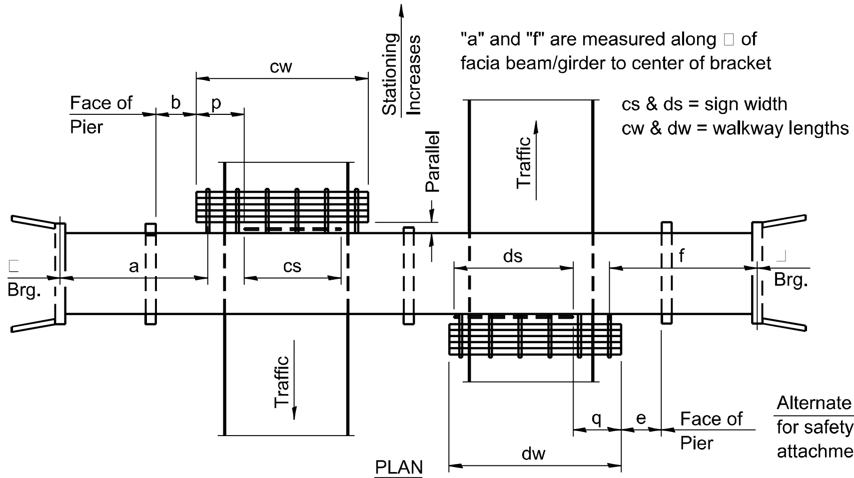


PLAN

(Left Sign Skew > 15°)

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath structure varies.)

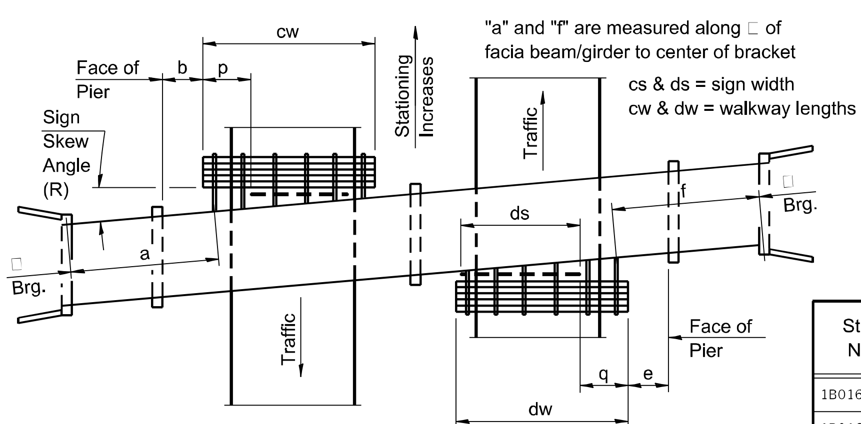


PLAN

(For Sign Skew ≤ 15°, all brackets constant)

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath structure varies.)

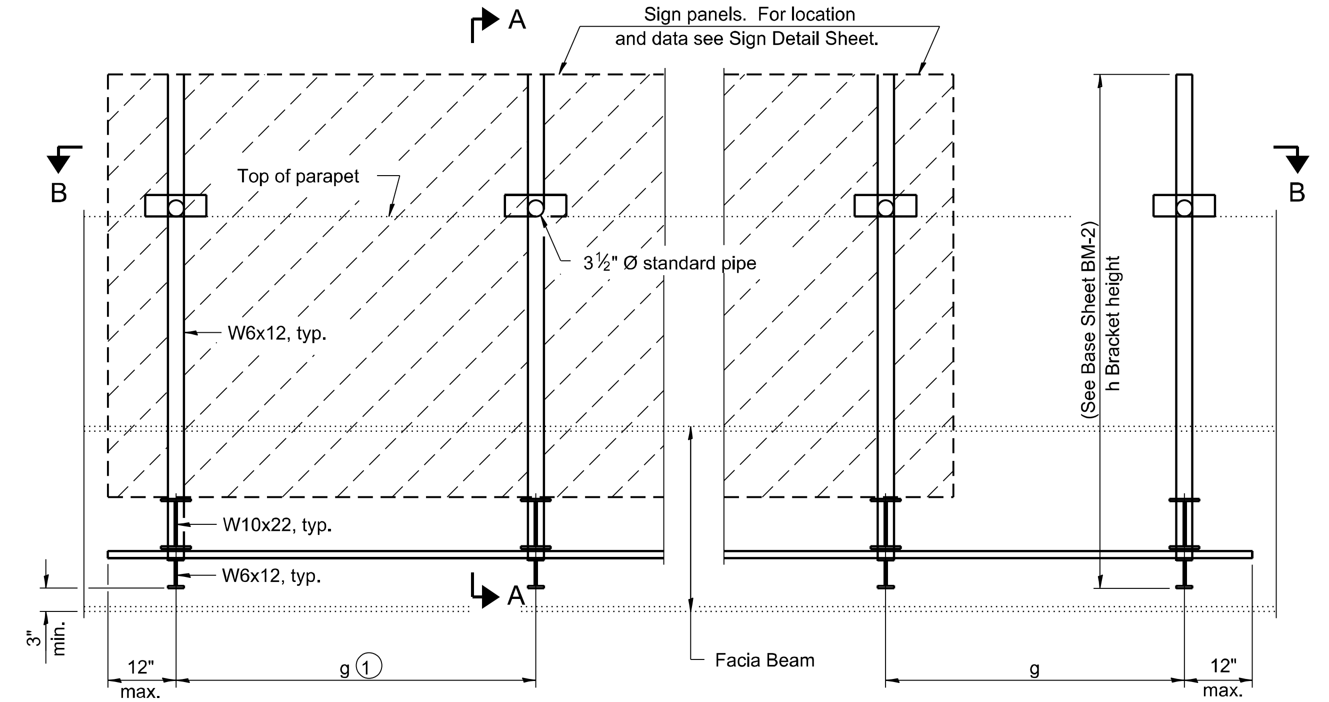


PLAN

(Right Sign Skew > 15°)

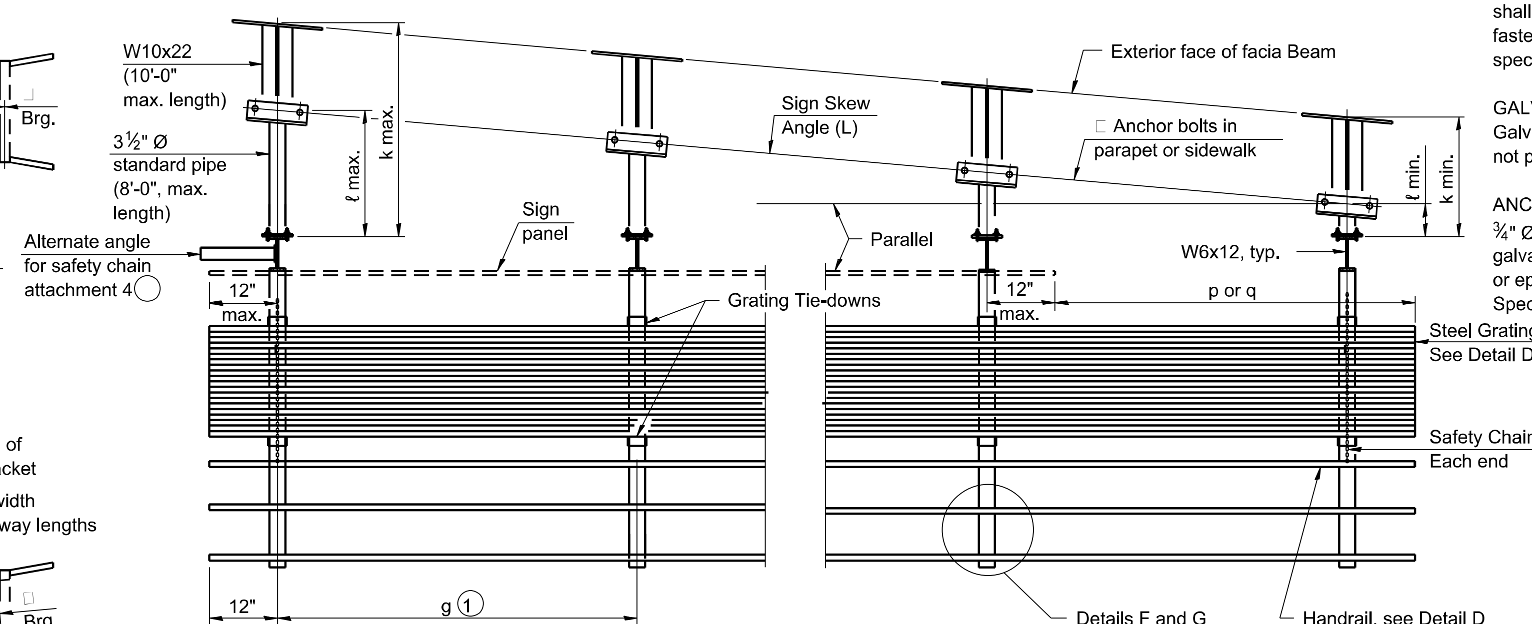
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION

(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B

(Shown: Left Sign Skew ~~15~~°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	cs	cw	ds	dw	e	f	g	No. of Brackets (Total)	p	q	Total Grating/ Hndrl. Lengths (cw + dw) ④
1B016I290R028.0		802+27.37	016-2079	I-290					11'-0"			8'-0"	4'-9"	3			
1B016I290R028.0		802+27.37	016-2079	I-290					10'-0"			32'-6"	4'-6"	3			
1B016I290R028.0		802+27.37	016-2079	I-290					9'-0"	58'-6"		57'-0"	3'-6"	3			
1B016I290L028.0		902+27.37	016-2079	I-290	62'-0"		9'-0"	64'-6"					3'-6"	3			
1B016I290L028.0		902+27.37	016-2079	I-290	42'-0"		11'-0"						4'-0"	3			
1B016I290L028.0		902+27.37	016-2079	I-290	9'-9"		11'-6"						4'-6"	3			

Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①

When cw < cs and/or dw < ds, use alternate brackets without walkway supports where applicable, see ③.

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") ②

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specificiations.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50,).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, ¾" Ø x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

① Bracket spacing g ≤ 6'-0", max. Spacing shall be uniform if possible but may vary ±6" to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.

② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.

③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.

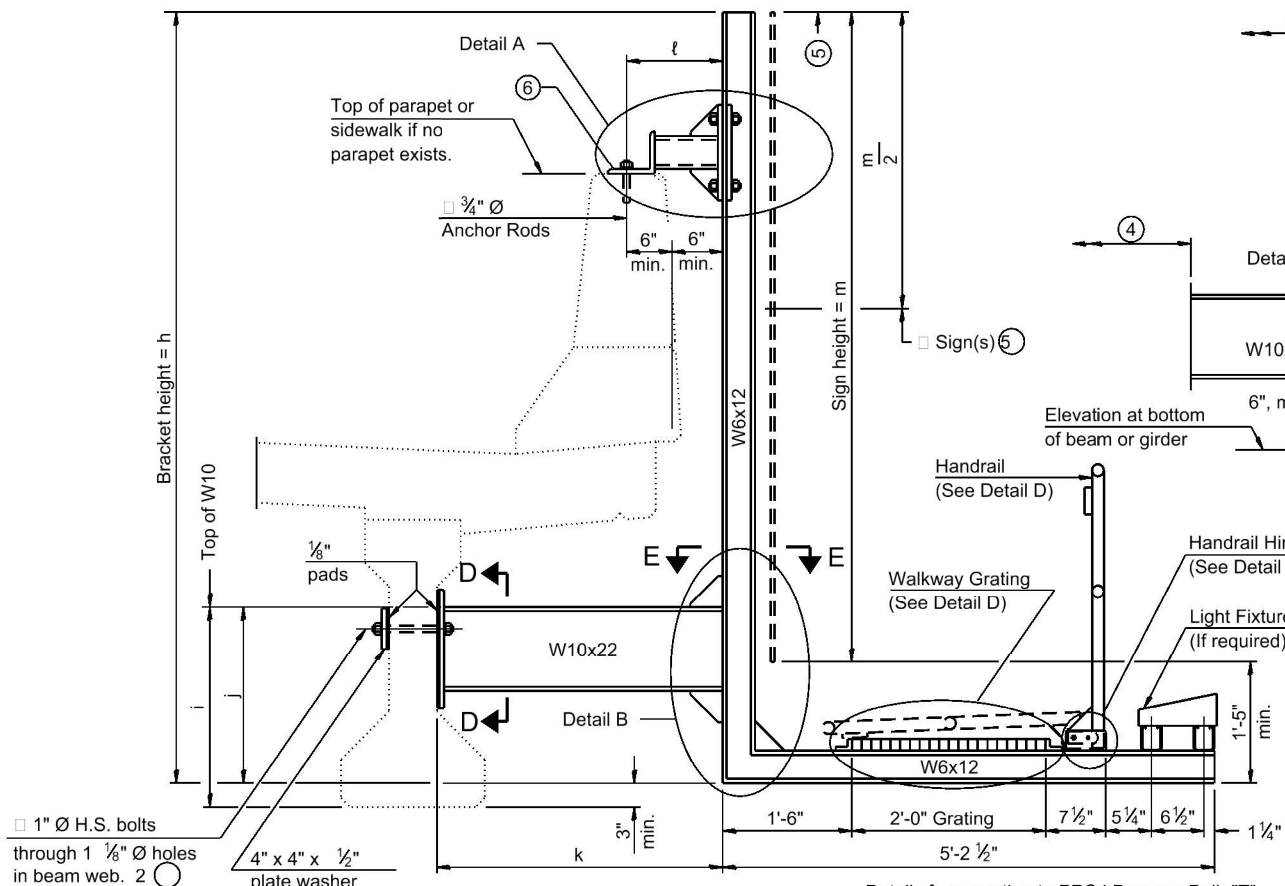
④ If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

Walkways will not be required for the bridge-mounted sign structures.

TOTAL BILL OF MATERIAL

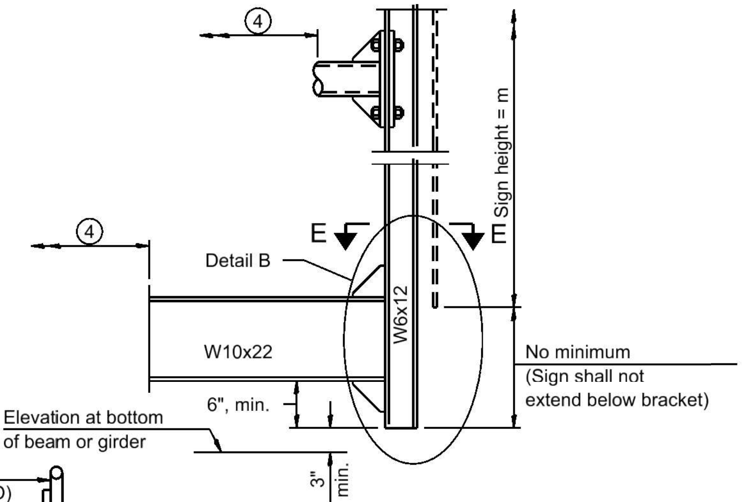
③ OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	Foot	123

BM-1 5-15-2023



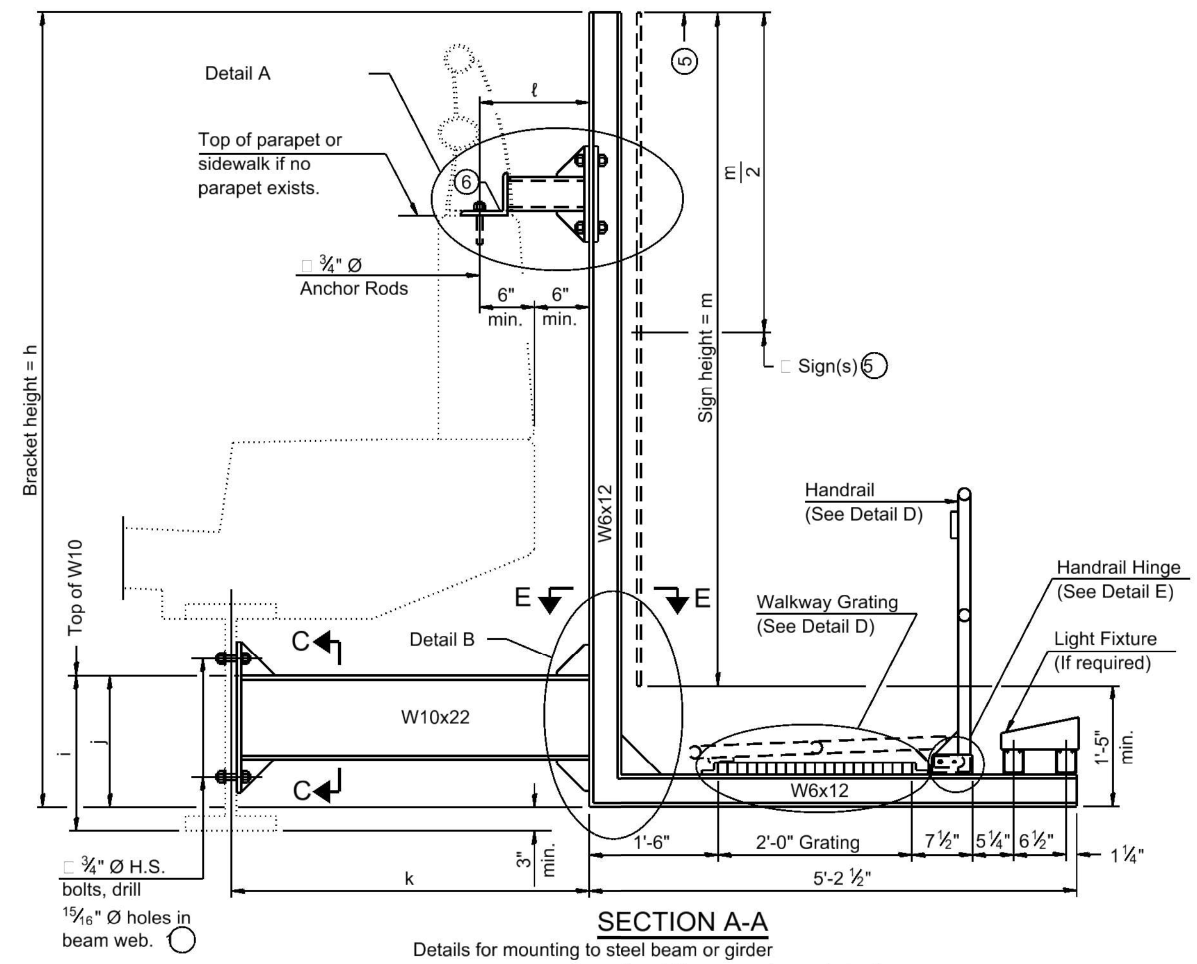
SECTION A-A

Details for mounting to PPC I Beam or Bulb "T" & Details for mounting to parapet w/o rail



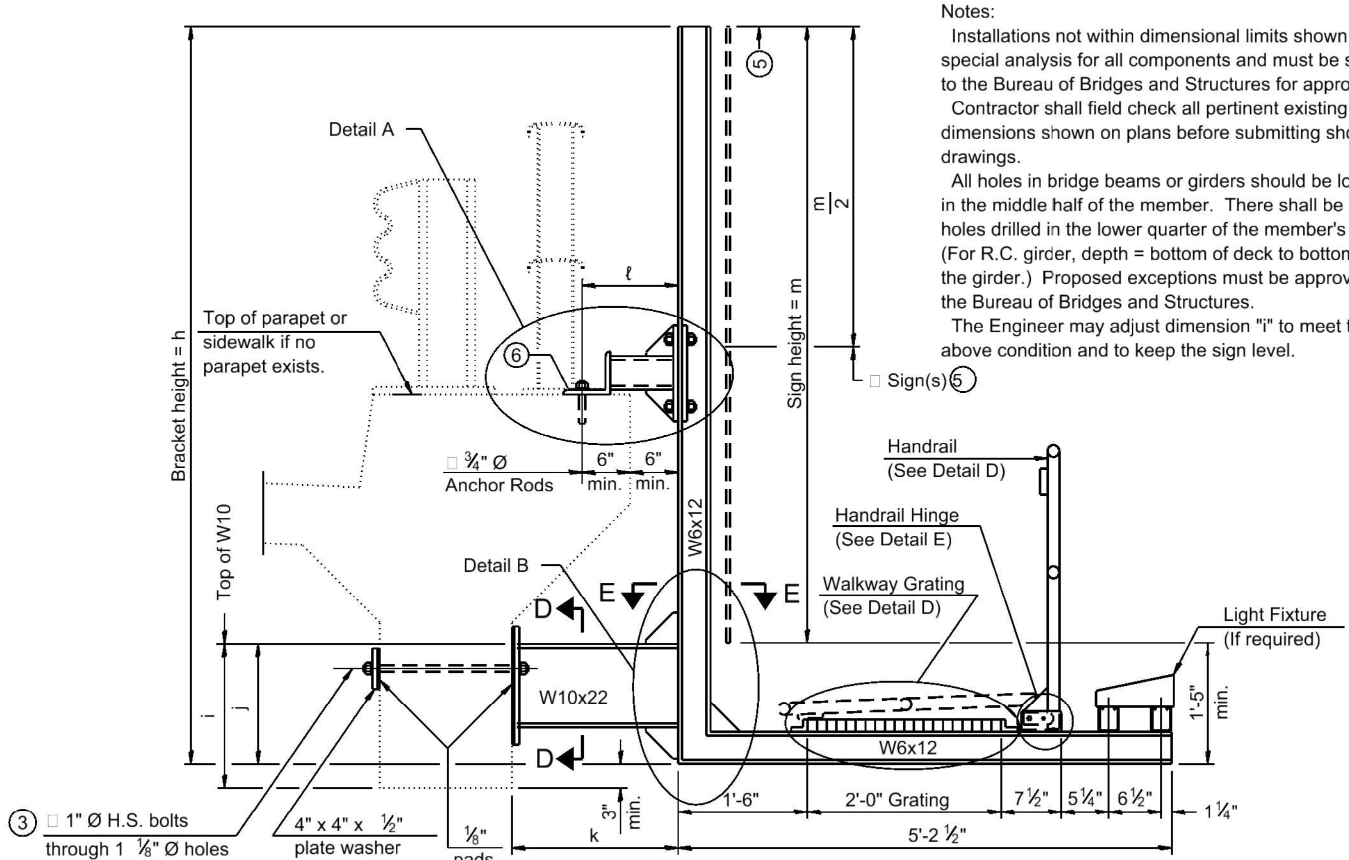
SECTION A-A

Alternate with no lights or walkways



SECTION A-A

Details for mounting to steel beam or girder & Details for mounting with existing parapet mounted rail



SECTION A-A

Details for mounting to integral reinforced concrete girder & Details for mounting on safety curb with surface-mount bridge rail

Notes:

Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval.

Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.

All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.

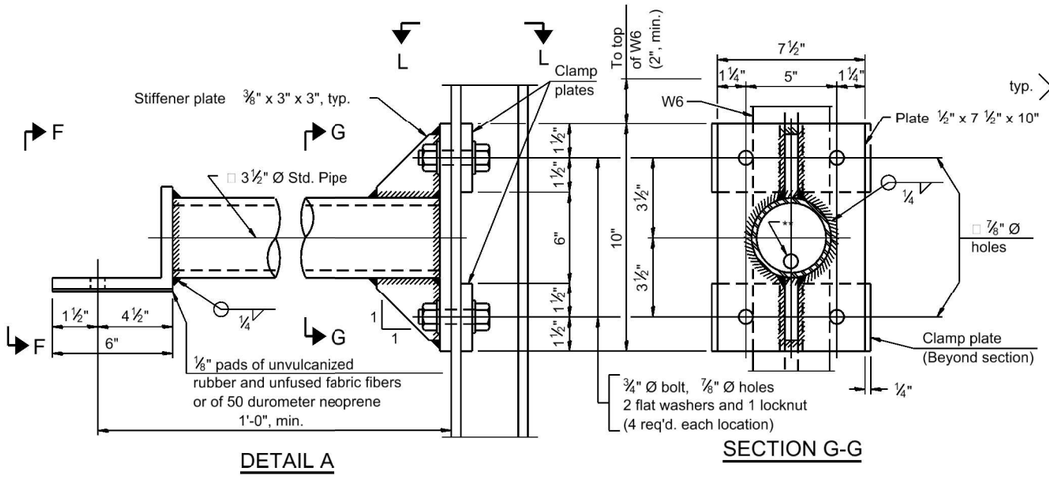
The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

1. Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
2. For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
3. For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over ¼" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
4. For attachment details of 3 ½" pipe and W10x22, see other sections as applicable.
5. Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
6. For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	ℓ max. (8'-0" max.)	m (15'-0" max.)
1B016I290R028.0	802+27.37	7'-5"	1'-6⅞"	1'-3⅞"	3'-6½"	1'-3"	6'-0"
1B016I290R028.0	802+27.37	8'-11"	1'-6⅞"	1'-3⅞"	3'-6½"	1'-3"	7'-6"
1B016I290R028.0	802+27.37	7'-5"	1'-6⅞"	1'-3⅞"	3'-6½"	1'-3"	6'-0"
1B016I290R028.0	902+27.37	7'-5"	1'-6⅞"	1'-3⅞"	3'-6½"	1'-3"	6'-0"
1B016I290R028.0	902+27.37	7'-5"	1'-6⅞"	1'-3⅞"	3'-6½"	1'-3"	6'-0"
1B016I290R028.0	902+27.37	10'-5"	1'-6⅞"	1'-3⅞"	3'-6½"	1'-3"	9'-0"

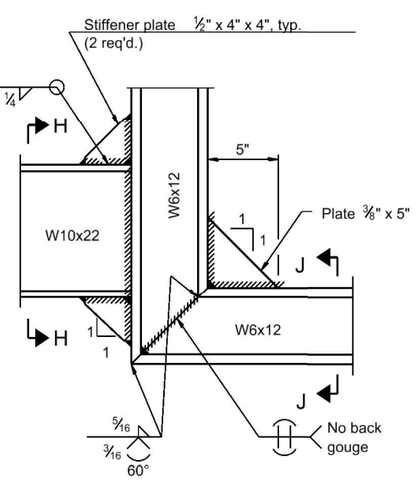
For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.
For Details D & E, see Base Sheet BM-4.

BM-2 5-15-2023

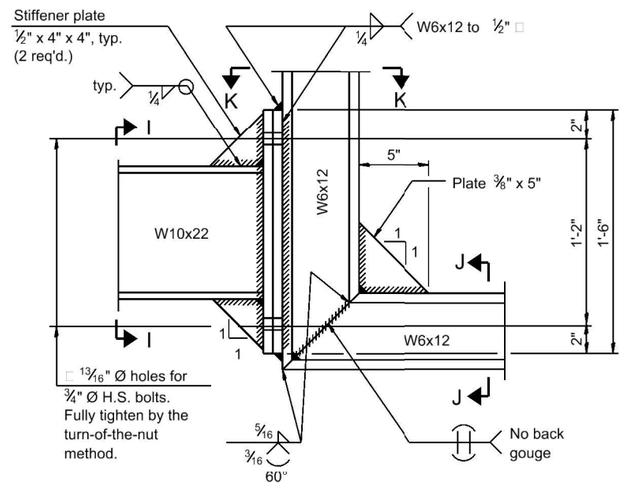


DETAIL A

SECTION G-G

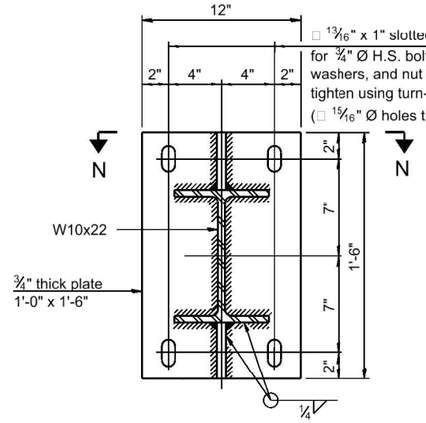


DETAIL B - WELDED W10x22 TO W6x12 CONNECTION



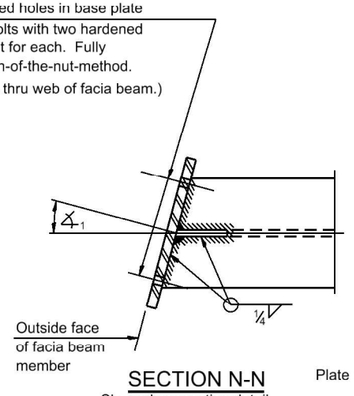
DETAIL B - ALTERNATE BOLTED W10x22 TO W6x12 CONNECTION

Alternate may be substituted by contractor to facilitate construction or galvanizing, especially on long struts for skewed bricges.



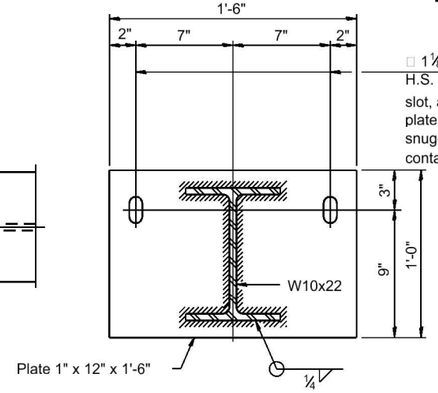
SECTION C-C

Steel beam or girder connection plate details



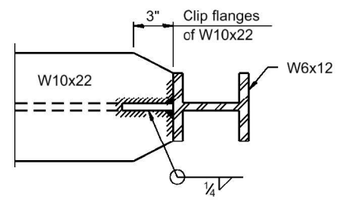
SECTION N-N

Skewed connection detail for W10x22 to facia beam.

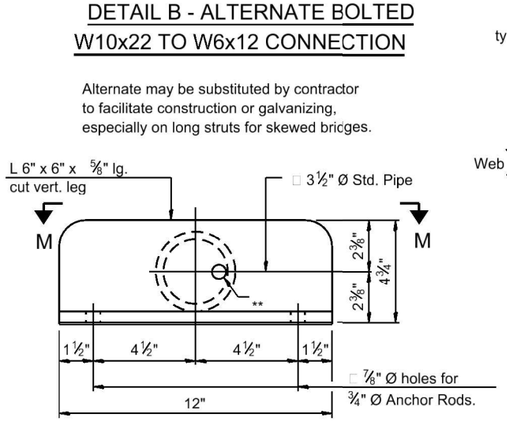


SECTION D-D

Concrete beam or girder connection plate details.

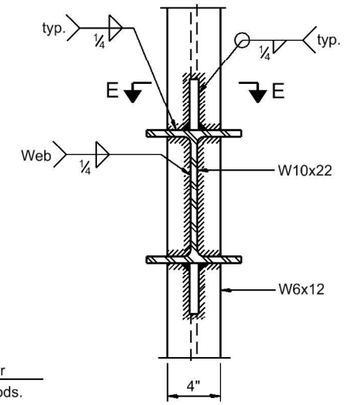


SECTION E-E

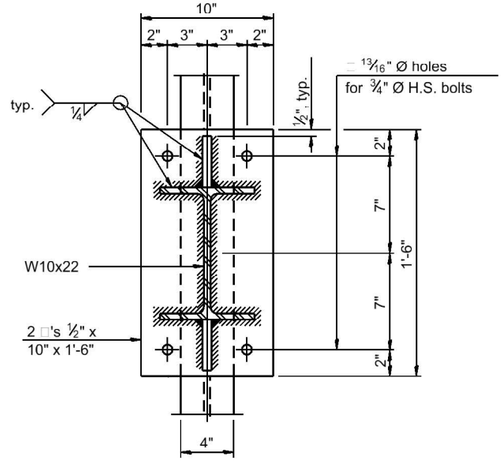


VIEW F-F

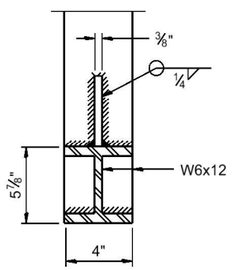
** 13/16" Ø holes for galvanizing. After galvanizing, install ⅞" Ø A307 hot-dip galvanized bolt to close hole in angle. (No bolt required in ½" plate.)



SECTION H-H

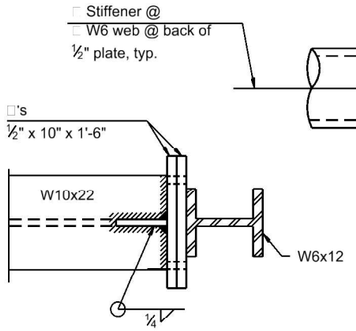


SECTION I-I

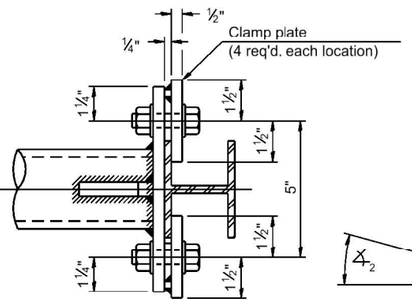


SECTION J-J

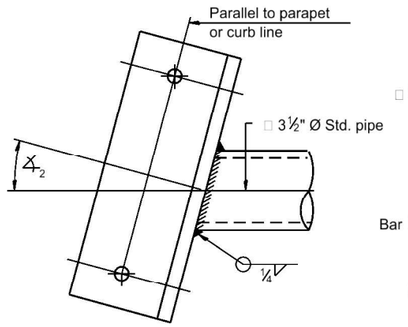
Note: For constant slab overhang at facia beam, $\measuredangle_1 = \measuredangle_2$ sign angle. For flared beams or other special cases where $\measuredangle_1 \neq \measuredangle_2$ $\measuredangle_1$ sign angle.



SECTION K-K

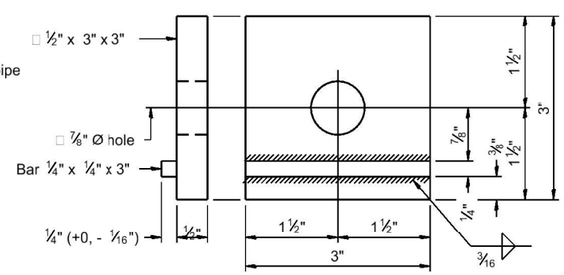


SECTION L-L



SECTION M-M

Skewed connection detail for 3 ½" Ø pipe to parapet.



CLAMP PLATE DETAILS

BM-3

5-15-2023

CiorbaGroup 8725 W. Higgins Rd, Ste 600, Chicago, IL 60631 P 773.775.4009 | www.ciorba.com	USER NAME = Roadway	DESIGNED - SIK	REVISED -
		DRAWN - SBA	REVISED -
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	PLOT DATE = 11/26/2024	DATE - 11/26/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
CONNECTION DETAILS

SHEET 3 OF 4 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	167
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			

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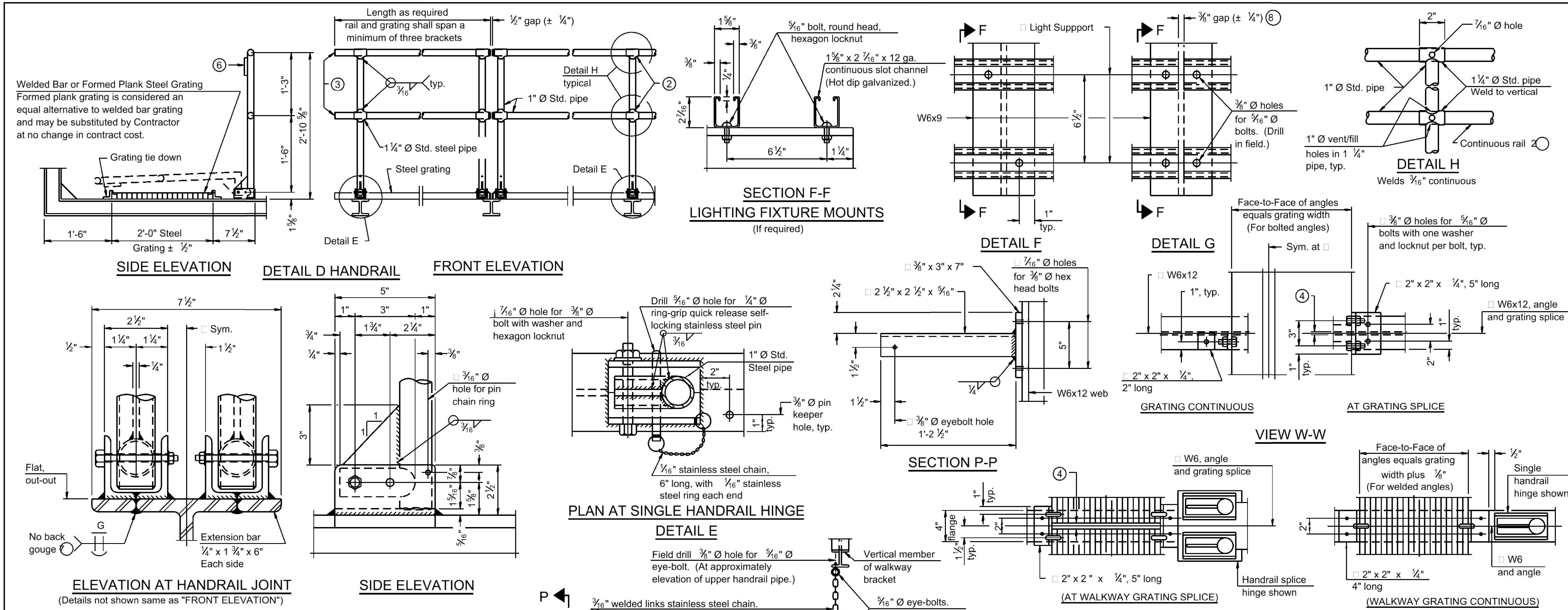

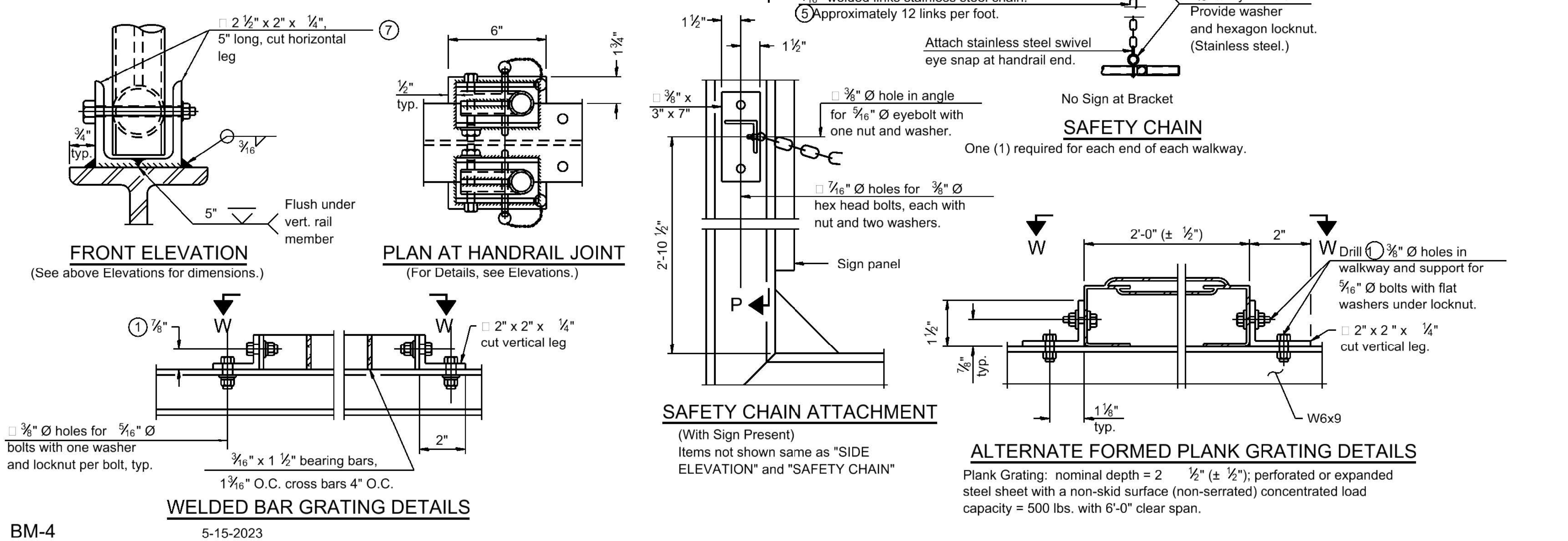

BM-4

5-15-2023

NOTES

1. Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment. Field drilled holes must be touched up with galvanized paint.
2. Horizontal rail member shall be continuous thru 1 ¼" Ø pipe. Provide 7⁄16" Ø hole in 1 ¼"Ø pipe for ⅜" Ø bolt. Field drill 7⁄16" Ø hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5⁄16" eyebolts in 7⁄16" Ø holes on top rail at ends only.)
3. Install standard force-fit end caps or weld ⅛" end plates with ⅛" c.f.w. and grind smooth. (All rail ends.)
4. ⅜" (± ¼") gap between grating panels at splice.
5. Chain to be type 304L stainless steel suitable for prolonged exterior exposure. Approximately 3'-6" long chain per location. Maximum sag with handrail erected = 4".
6. ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.
7. Extrusions may be used in lieu of details shown, with approval by Engineer.
8. Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

CiorbaGroup
8725 W. Higgins Rd, Ste 600, Chicago, IL 60631
P 773.775.4009 | www.ciorba.com

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	DRAWN - SBA	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
WALKWAY DETAILS

SHEET 4 OF 4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	168

CONTRACT NO. 62P43

ILLINOIS FED. AID PROJECT

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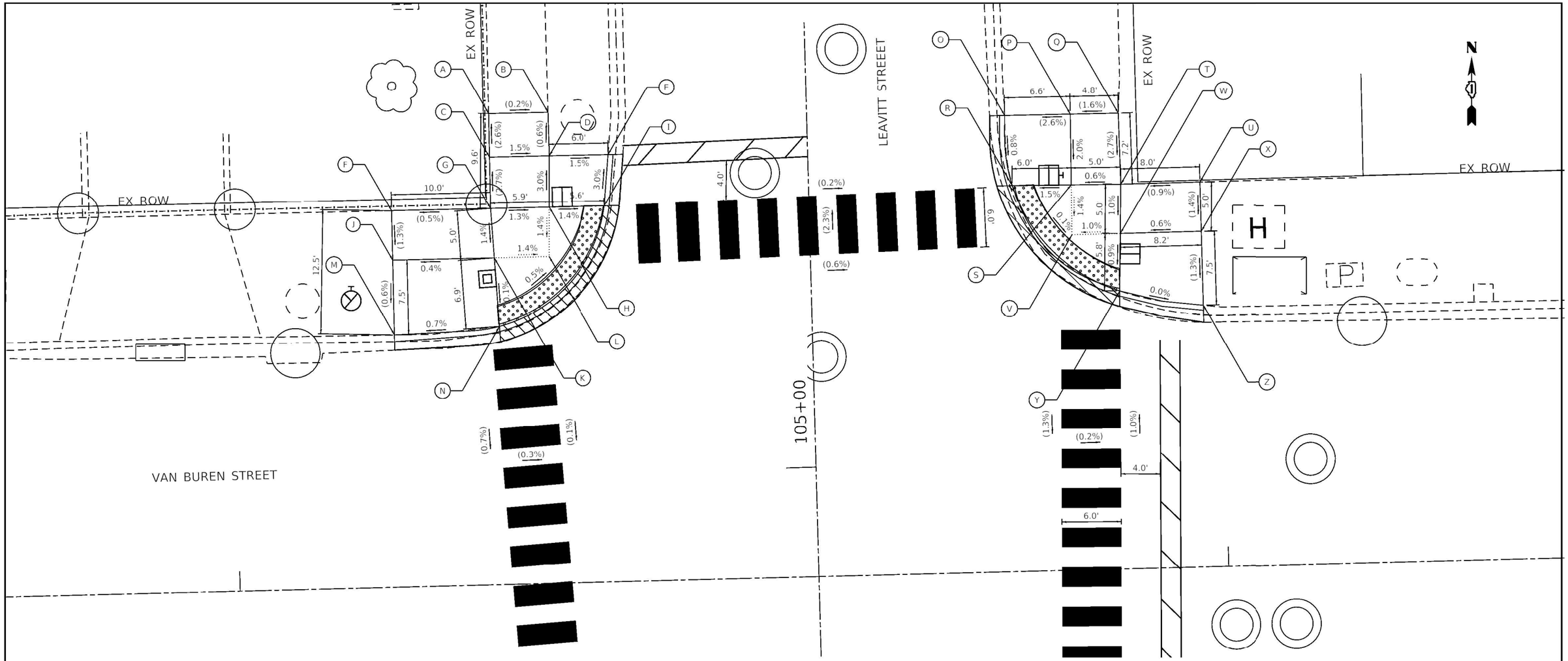

POINT	STATION	OFFSET	SIDE	ELEVATION
A	105+36.63	32.17	LT	(593.29)
B	105+36.59	26.17	LT	(593.28)
C	105+32.23	32.20	LT	(593.40)
D	105+32.21	26.16	LT	593.31
E	105+32.17	20.16	LT	(593.22)
F	105+27.08	42.24	LT	(593.49)
G	105+27.04	32.23	LT	(593.54)
H	105+27.01	26.30	LT	593.46
I	105+26.99	20.69	LT	593.38
J	105+22.08	42.26	LT	(593.43)
K	105+22.04	31.99	LT	593.47
L	105+22.01	26.44	LT	593.39
M	105+14.54	42.29	LT	(593.38)
N	105+15.10	31.66	LT	593.46

LEGEND

- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED CHAINLINK FENCE
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER (TO BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER OF THE SAME TYPE AT THAT LOCATION)

POINT	STATION	OFFSET	SIDE	ELEVATION
O	105+35.03	20.02	RT	(593.32)
P	105+34.99	26.50	RT	(593.49)
Q	105+34.96	31.50	RT	(593.57)
R	105+27.93	20.61	RT	593.26
S	105+27.85	26.56	RT	593.35
T	105+27.79	31.56	RT	(593.38)
U	105+27.80	39.56	RT	(593.45)
V	105+22.79	26.49	RT	593.28
W	105+22.79	31.38	RT	593.33
X	105+22.79	39.56	RT	(593.38)
Y	105+17.00	31.16	RT	593.28
Z	105+15.33	39.57	RT	(593.28)

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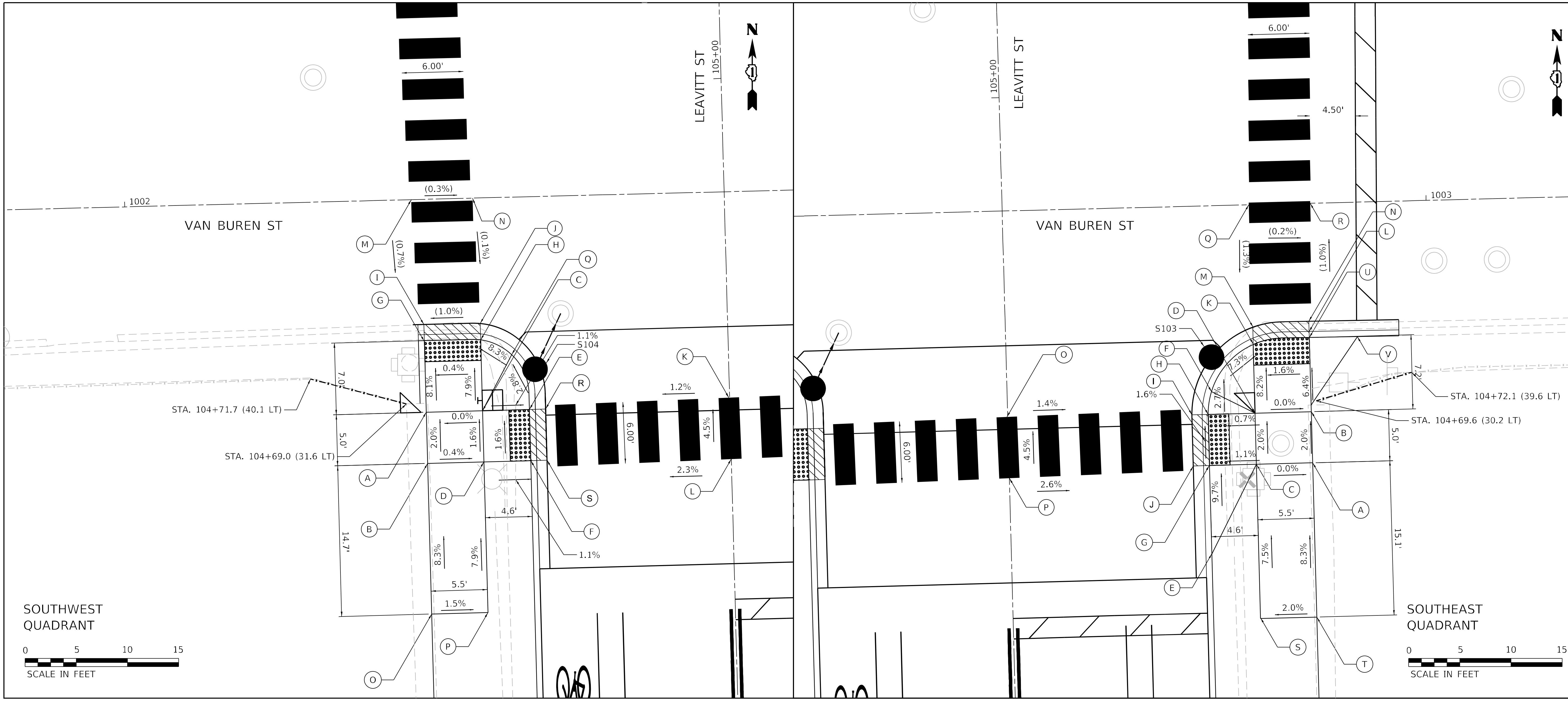
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA DETAILS
LEAVITT ST AND VAN BUREN ST NW AND NE QUADRANTS

SCALE: 1" = 5' | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	169
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		



	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	104+68.17	29.67	594.34	L	104+62.80	0.00	594.8
B	104+63.17	29.67	594.44	M	104+88.98	30.63	593.81
C	104+68.17	24.17	594.34	N	104+88.97	24.58	593.79
D	104+63.17	24.17	594.42	O	104+48.17	29.67	595.69
E	104+68.17	19.58	594.29	P	104+48.17	24.17	595.61
F	104+63.17	19.58	594.37	Q	104+73.57	21.17	594.13
G	104+75.17	29.67	593.77	R	104+68.17	18.00	594.29
H	104+75.10	24.17	539.79	S	104+63.17	18.00	594.37
I	104+76.75	29.67	593.73				
J	104+76.69	24.17	593.78				
K	104+68.80	0.00	594.53				

LEGEND

- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED CHAINLINK FENCE
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER (TO BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER OF THE SAME TYPE AT THAT LOCATION)

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	104+63.51	29.67	594.39	L	104+76.35	29.67	593.79
B	104+68.51	29.67	594.29	M	104+76.91	24.17	593.59
C	104+63.51	24.17	594.39	N	104+77.34	29.67	593.83
D	104+68.51	24.17	594.29	O	104+68.80	0.00	594.53
E	104+54.86	19.58	595.18	P	104+62.80	0.00	594.80
F	104+70.73	19.97	594.20	Q	104+88.88	24.43	593.74
G	104+63.51	19.58	594.34	R	104+88.87	30.44	593.73
H	104+68.51	19.58	594.26	S	104+48.51	24.17	595.52
I	104+68.51	18.00	594.26	T	104+48.51	29.67	595.64
J	104+63.51	18.00	594.34	U	104+75.74	29.67	593.83
K	104+75.22	24.17	593.74	V	104+75.71	35.32	594.11

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek
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PLOT DATE = 12/11/2024

DESIGNED - CM
DRAWN - CM
CHECKED - PM
DATE - 12/03/2024

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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

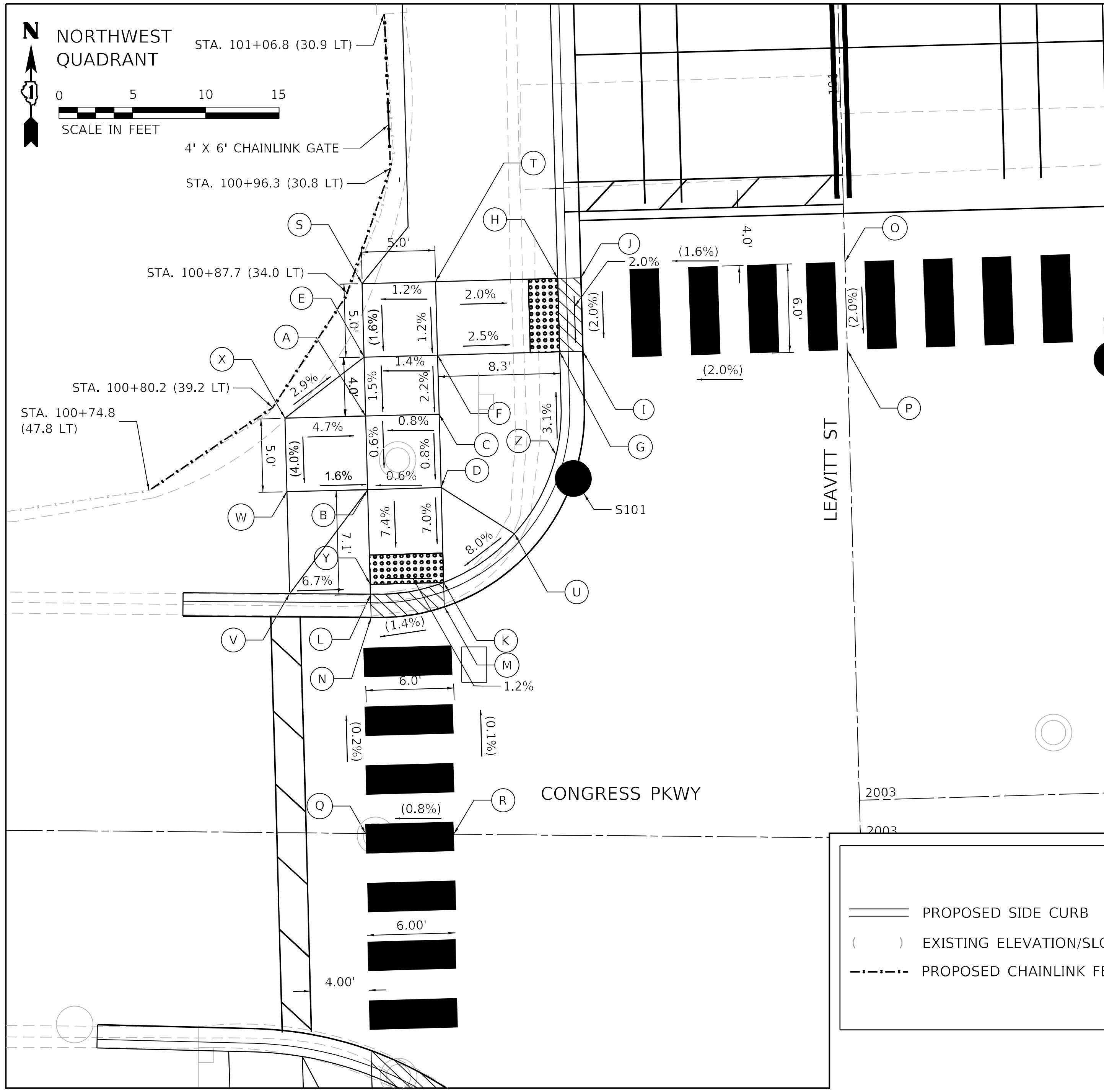
ADA DETAILS
LEAVITT ST AND VAN BUREN ST SW AND SE QUADRANTS

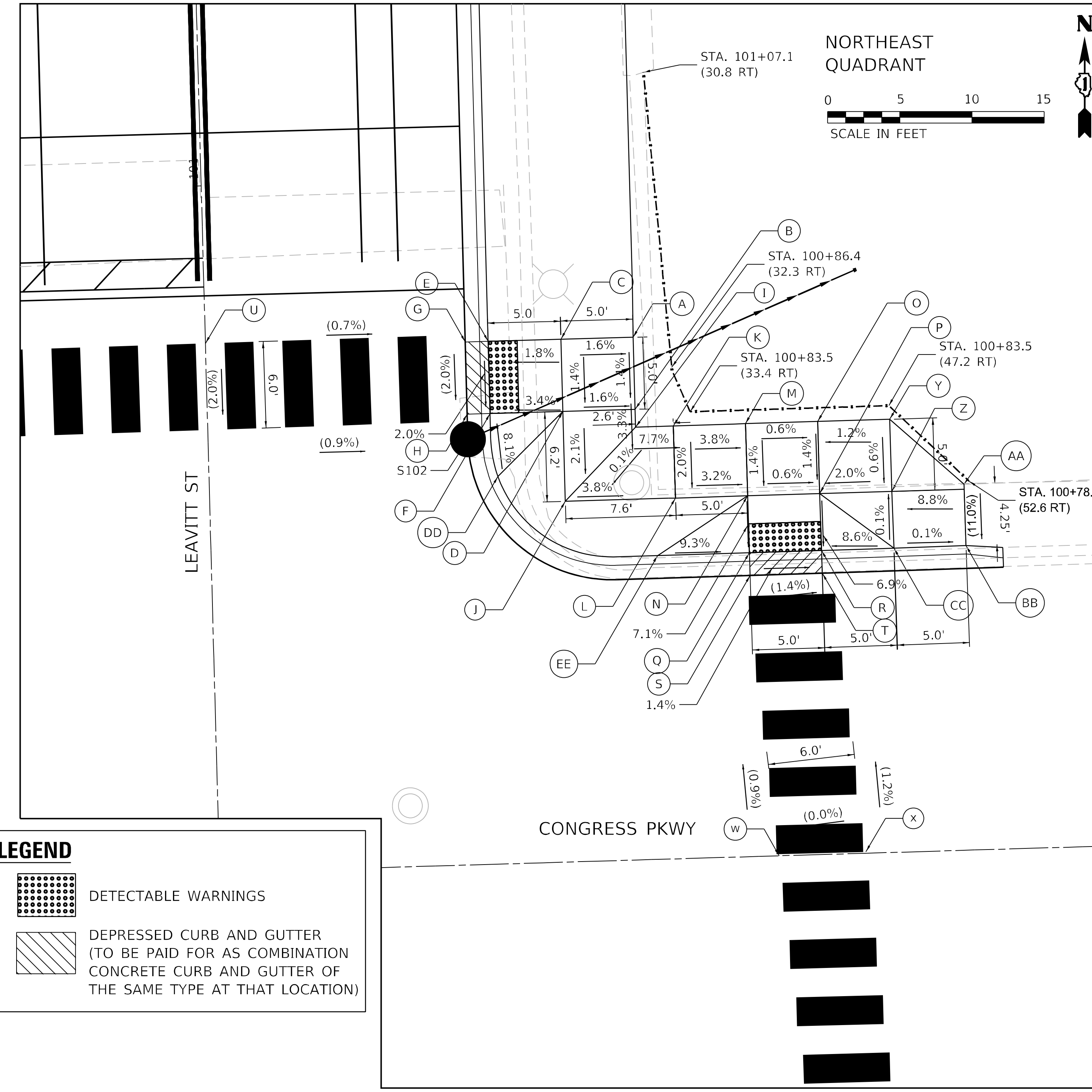
SCALE: 1" = 5' | SHEET 2 OF 4 SHEETS | STA. TO STA.

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	170

CONTRACT NO. 62P43

ILLINOIS | FED. AID PROJECT



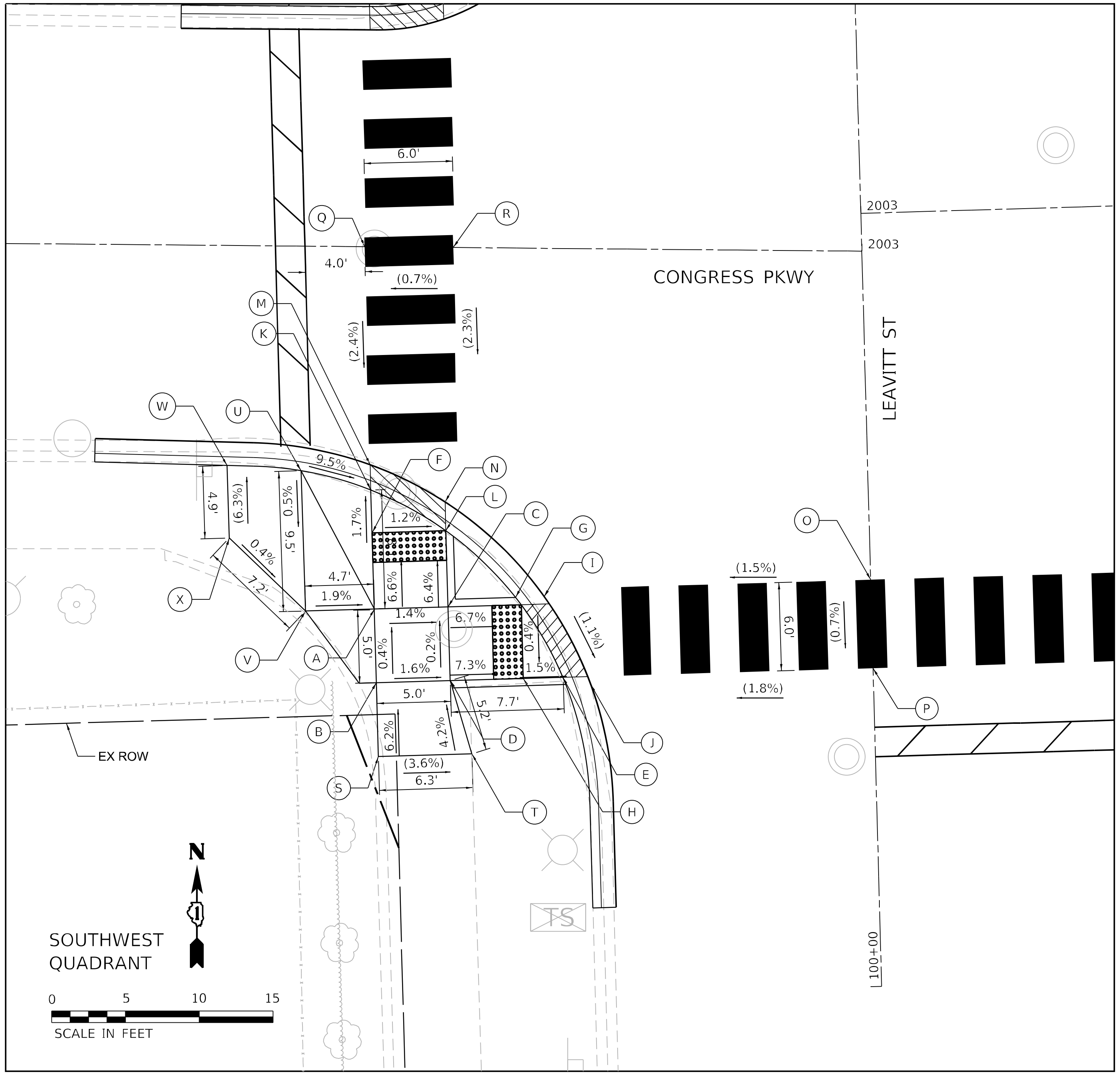


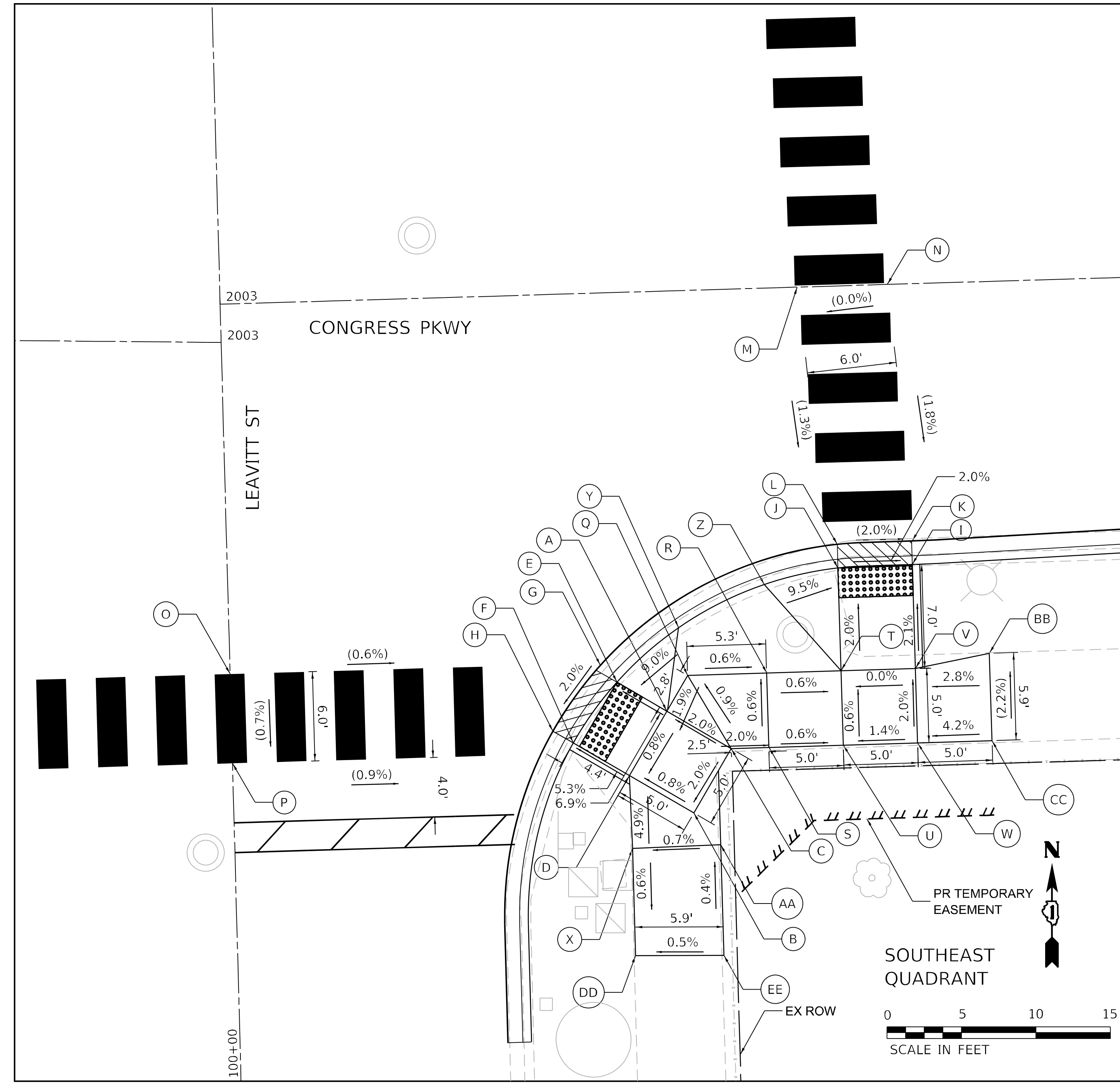
LEGEND

- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED CHAINLINK FENCE
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER (TO BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER OF THE SAME TYPE AT THAT LOCATION)

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	100+79.47	32.90	593.55	L	100+67.34	32.90	593.03	W	100+74.47	38.40	(593.61)
B	100+74.47	32.90	593.52	M	100+66.35	27.90	(593.10)	X	100+79.47	38.40	(593.81)
C	100+79.47	27.90	593.59	N	100+65.76	32.90	(593.03)	Y	100+68.01	32.90	593.04
D	100+74.47	27.90	593.55	O	100+89.09	0.00	(593.95)	Z	100+76.50	20.03	593.69
E	100+83.49	32.90	(593.61)	P	100+83.09	0.00	(593.83)				
F	100+83.49	27.90	593.68	Q	100+51.06	33.68	(593.06)				
G	100+83.49	19.58	593.47	R	100+50.85	27.69	(593.11)				
H	100+88.49	19.58	593.57	S	100+88.49	32.90	(593.69)				
I	100+83.49	18.00	(593.47)	T	100+88.49	27.90	593.74				
J	100+88.49	18.00	(593.66)	U	100+71.19	22.99	593.57				
K	100+68.01	27.90	593.10	V	100+67.53	38.40	(593.41)				

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	100+88.72	29.63	593.83	L	100+77.51	32.26	593.42	W	100+52.53	38.77	(593.15)
B	100+83.72	29.63	593.76	M	100+82.52	37.24	593.33	X	100+52.55	44.79	(593.15)
C	100+88.72	24.63	593.91	N	100+77.52	37.26	593.26	Y	100+82.56	47.24	593.36
D	100+83.72	24.63	593.84	O	100+82.54	42.24	593.30	Z	100+77.56	47.26	593.33
E	100+88.72	19.58	593.77	P	100+77.54	42.26	593.23	AA	100+77.90	52.26	(593.77)
F	100+83.72	19.58	593.67	Q	100+73.58	37.28	592.98	BB	100+73.67	52.29	(593.28)
G	100+88.72	18.00	(593.82)	R	100+73.60	42.28	592.91	CC	100+73.63	47.29	593.34
H	100+83.72	18.00	(593.67)	S	100+72.00	37.28	(592.98)	DD	100+79.32	20.01	594.03
I	100+82.50	29.63	593.72	T	100+72.02	42.28	(592.91)	EE	100+73.55	30.92	593.57
J	100+77.48	24.63	593.71	U	100+89.09	0.00	(593.95)	FF	NOT USED	NOT USED	NOT USED
K	100+82.51	32.24	593.52	V	100+83.09	0.00	(593.83)				





	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	100+26.51	33.68	593.03	M	100+36.29	33.70	(592.64)
B	100+21.51	33.67	593.05	N	100+33.63	28.69	(592.63)
C	100+26.52	28.68	592.96	O	100+27.58	0.00	(592.95)
D	100+21.52	28.67	592.97	P	100+21.58	0.00	(592.91)
E	100+21.53	21.03	592.57	Q	100+54.38	33.40	(593.07)
F	100+31.66	33.69	592.69	R	100+54.20	27.40	(593.11)
G	100+26.53	23.72	592.63	S	100+16.50	33.67	(593.36)
H	100+21.53	23.71	592.61	T	100+16.52	28.66	(593.18)
I	100+26.53	21.81	(592.63)	U	100+37.62	38.40	593.17
J	100+21.54	19.34	(592.57)	V	100+27.50	38.34	593.12
K	100+34.58	33.69	592.64	W	100+37.62	41.40	(592.84)
L	100+31.67	28.69	592.63	X	100+32.50	41.34	(593.15)

LEGEND

- PROPOSED SIDE CURB
- ( ) EXISTING ELEVATION/SLOPE
- PROPOSED CHAINLINK FENCE
- DETECTABLE WARNINGS
- DEPRESSED CURB AND GUTTER (TO BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER OF THE SAME TYPE AT THAT LOCATION)

	STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION		STATION	OFFSET	ELEVATION
A	100+24.37	29.31	593.08	M	100+52.53	38.59	(593.15)	Y	100+29.88	30.19	593.31
B	100+17.41	30.89	593.08	N	100+52.55	44.61	(593.15)	Z	100+32.63	36.02	593.41
C	100+21.67	33.51	593.16	O	100+27.58	0.00	(592.95)	AA	100+15.24	32.62	593.24
D	100+20.04	26.63	593.04	P	100+21.58	0.00	(592.92)	BB	100+26.73	51.01	(593.25)
E	100+26.33	25.95	592.81	Q	100+26.66	30.72	593.16	CC	100+21.73	51.03	(593.38)
F	100+22.33	22.92	592.81	R	100+26.68	36.02	593.10	DD	100+07.94	26.70	(593.24)
G	100+27.18	24.58	(592.81)	S	100+21.68	36.03	593.13	EE	100+07.80	32.64	(593.27)
H	100+23.16	21.57	(592.81)	T	100+26.69	41.02	593.07				
I	100+33.70	46.00	592.92	U	100+21.69	41.03	593.10				
J	100+33.60	41.00	592.93	V	100+26.71	46.01	593.07				
K	100+35.28	46.00	(592.92)	W	100+21.71	46.03	593.17				
L	100+35.19	41.00	(592.93)	X	100+15.15	26.71	593.28				

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GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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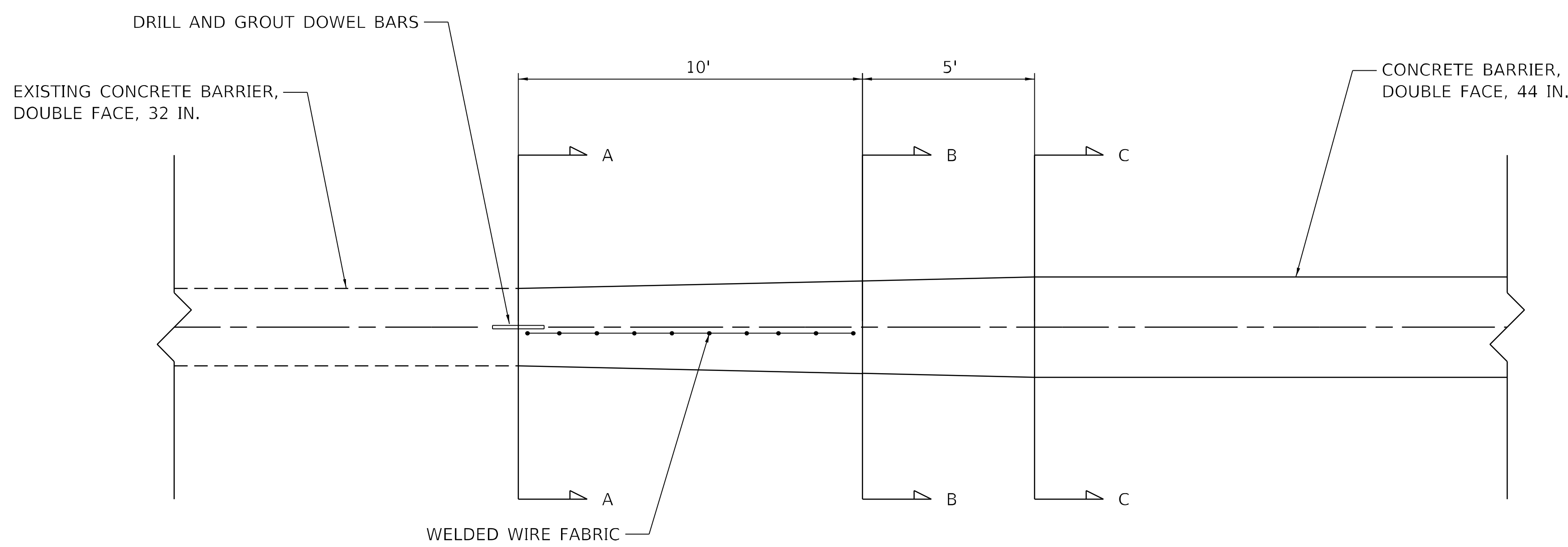
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

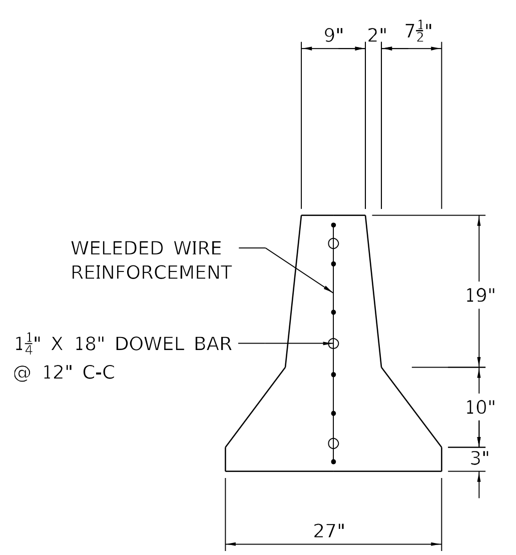
ADA DETAILS
LEAVITT ST AND CONGRESS PKWY SW AND SE QUADRANTS

SCALE: 1" = 5' | SHEET 4 OF 4 SHEETS | STA. TO STA.

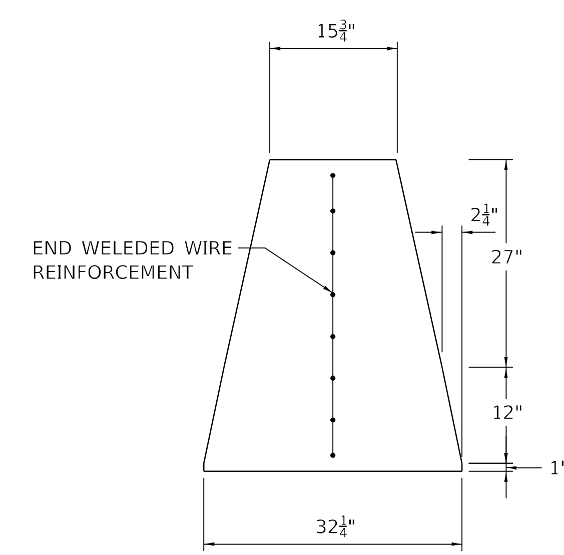
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	172
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



PLAN VIEW



SECTION A-A
(CONSTRUCTION JOINT)



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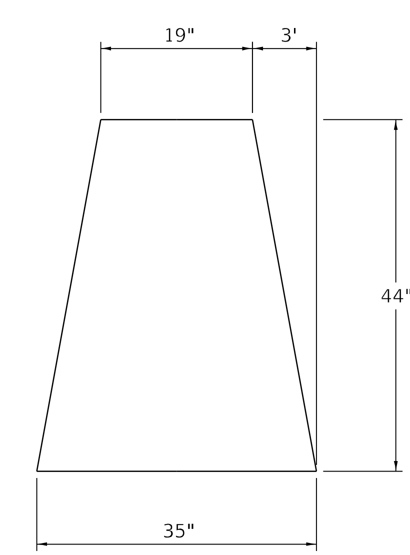

SECTION C-C

TRANSITION FROM CONCRETE BARRIER, DOUBLE FACE, 32 IN. TO CONCRETE BARRIER, DOUBLE FACE, 44 IN.

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gonzalez GONZALEZ COMPANIES, LLC PRO. ENGINEER 184004564-0014	USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS BARRIER TRANSITION DETAILS	
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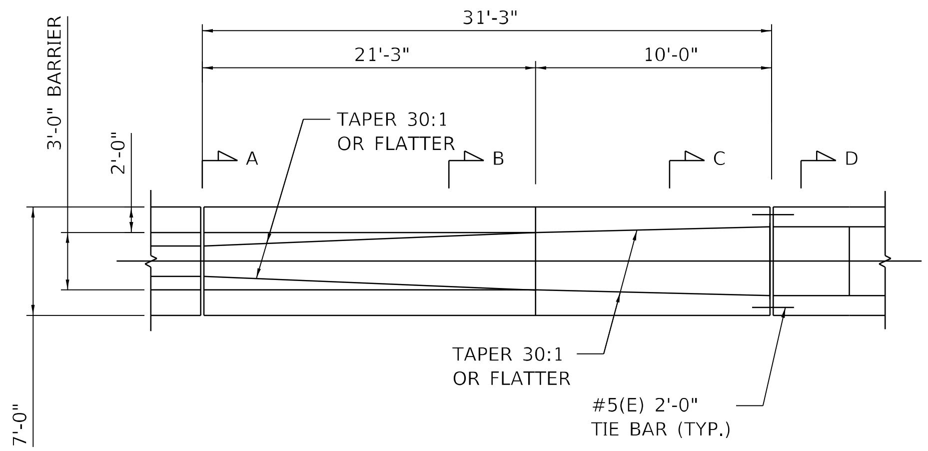
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	173
		CONTRACT NO. 62P43		
		ILLINOIS FED. AID PROJECT		



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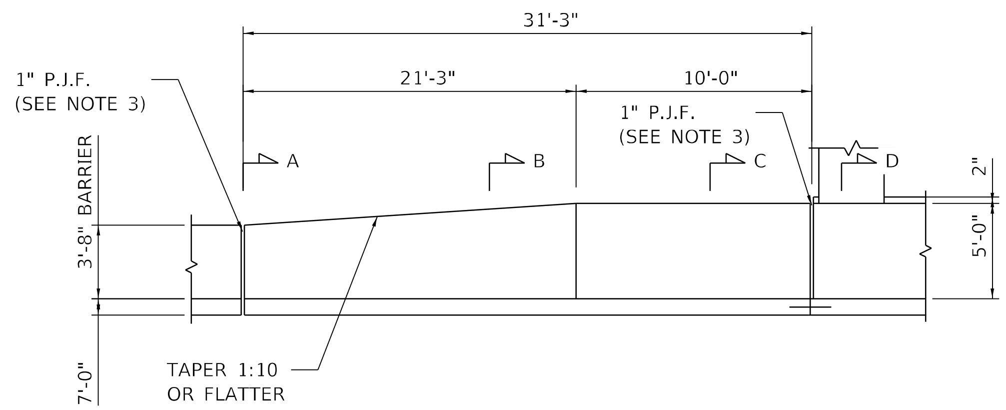
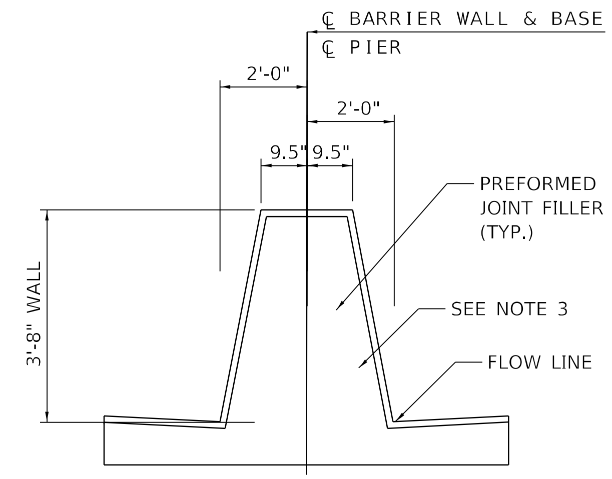
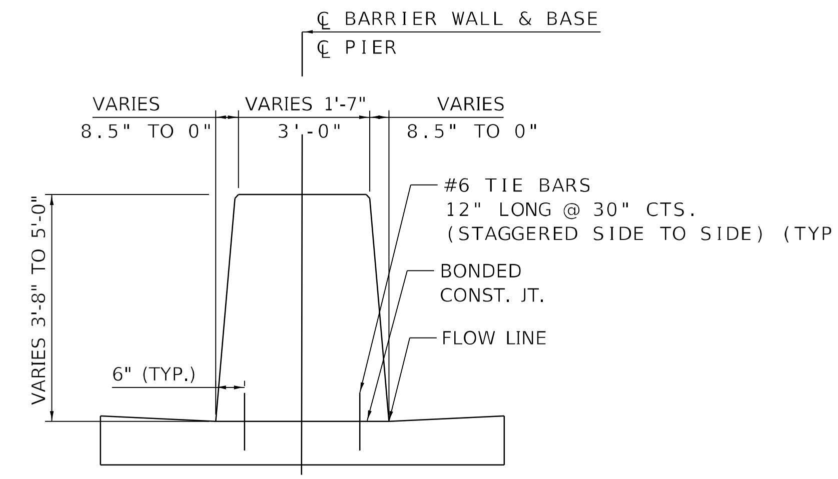


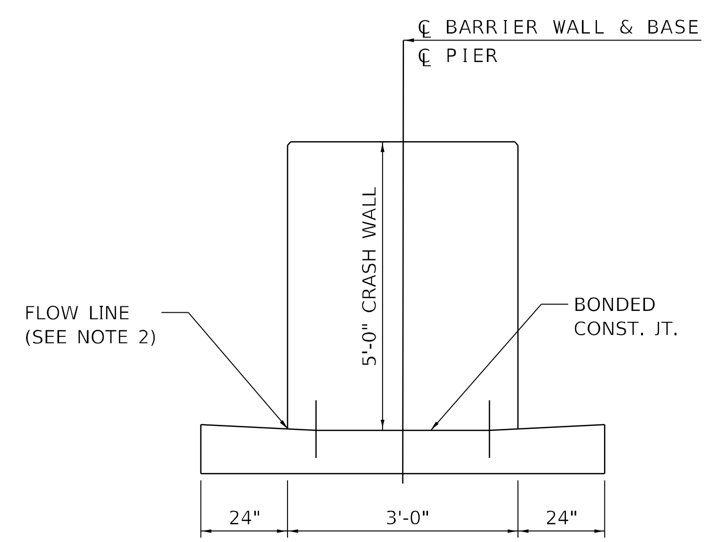
ELEVATION VIEW



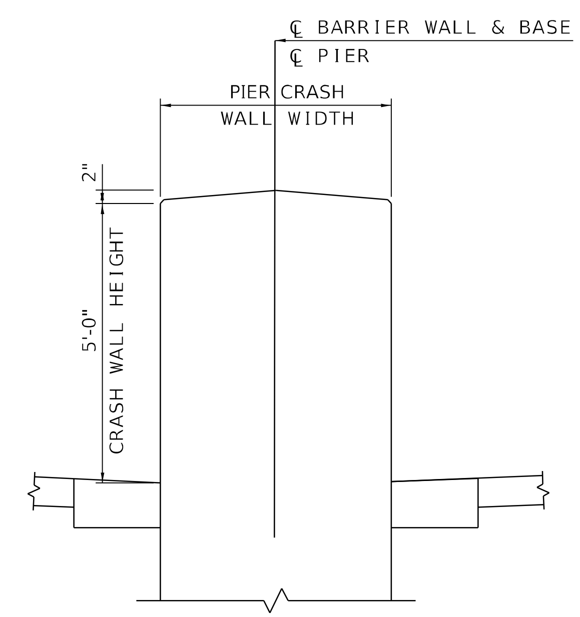
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

TRANSITION FROM CONCRETE BARRIER, DOUBLE FACE, 44 IN. TO CRASH WALL

NOTES:

1. 2" DEEP CONTRACTION JOINTS SHALL BE DONE BY SAWING AND SHALL BE CONSTRUCTED IN THE CONCRETE BARRIER WALL, CONCRETE BARRIER BASE, AND CONCRETE GUTTER. CONTRACTION JOINTS SHALL ALSO BE CONSTRUCTED AT BOTH SIDES OF ALL DRAINAGE STRUCTURES. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 30'-0". THE MINIMUM DISTANCE BETWEEN CONTRACTION JOINTS IN THE MEDIAN BARRIER WALL SHALL BE 2'-0". WHEN A DRAINAGE STRUCTURE FALLS WITHIN 2'-0" FROM AN EXPANSION JOINT OR CONTRACTION JOINT, THE NEAREST CONTRACTION JOINT SHALL BE OMITTED.

2. GUTTER PROFILE IN THE VICINITY OF SAG VERTICAL CURVES, ALONG FLAT GRADES AND AT THE MEETING OF PROPOSED AND EXISTING GUTTER, SHALL BE CAREFULLY CONTROLED AND FIELD ADJUSTED IF NECESSARY TO ENSURE POSITIVE DRAINAGE AND AVOID PONDING.

3. NON-STAINING GRAY ONE COMPONENT NON-SAG ELASTOMERIC GUN GRADE POLYURETHANE SEALANT MEETING THE REQUIREMENTS OF ASTM C-920 TYPE S, GRADE NS, CLASS 25, USE T WITH A BACKER ROD.

4. TIE BARS SHALL BE INCLUDED IN THE COST OF THE VARIOUS BARRIER ITEMS AND SHALL BE EPOXY COATED. TIE BARS BETWEEN THE BARRIER AND BASE SHALL BE ON 30" CENTERS AND ALTERNATE LEFT AND RIGHT OF THE BARRIER CENTERLINE.

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CM	REVISED -	
PLOT SCALE = 5.0000 ' / in.	CHECKED - PM	REVISED -	
PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -	

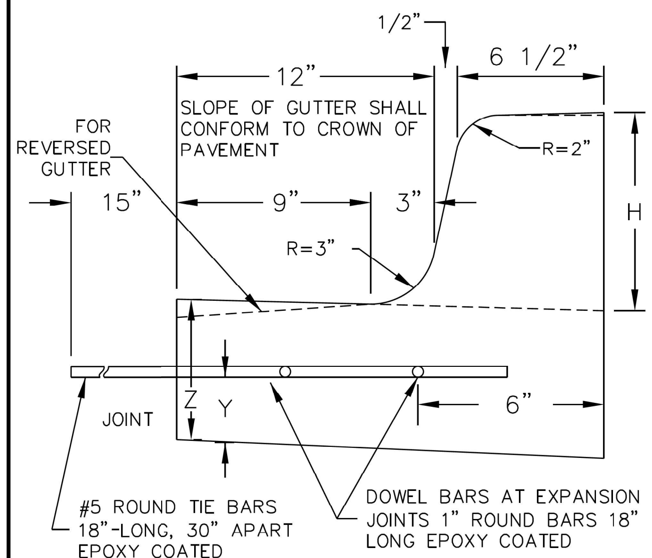
MISCELLANEOUS DETAILS
BARRIER TRANSITION DETAILS

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

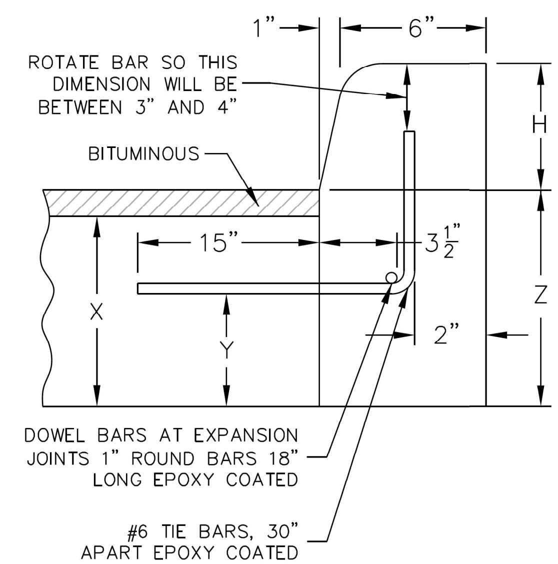
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	174
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

NOTE: H = VARIABLE 3" TO 9"
X = THICKNESS OF PAVEMENT
Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE.
Z = 10" OR THICKNESS OF PAVEMENT – WHICHEVER IS GREATER

TYPE BV. 12 OR TYPE 3 CURB & GUTTER



TYPE B OR TYPE 4 CURB BARRIER CURB



JOINTS IN CURB, COMBINED CURB & GUTTER

TRANSVERSE JOINTS OF A TYPE SIMILAR TO THAT USED IN THE ADJACENT PAVEMENT SHALL BE INSTALLED IN THE CURB, GUTTER AND COMBINED CURB & GUTTER IN PROLONGATION WITH THE JOINTS IN THE PAVEMENT. THE DETAILS OF THE TRANSVERSE JOINTS IN THE CURB, GUTTER AND COMBINED CURB & GUTTER SHALL BE APPROVED BY THE COMMISSIONER. CURB, GUTTER OR COMBINED CURB & GUTTER IS CONSTRUCTED ADJACENT TO A FLEXIBLE BASE PAVEMENT, 1" THICK EXPANSION JOINTS COMPOSED OF BITUMINOUS PERFORMED JOINT FILLER SHALL BE INSTALLED IN THE CURB AND/OR GUTTER AT POINTS OF CURVATURE AND AT CONSTRUCTION JOINTS. CONTRACTION JOINTS SHALL ALSO BE PLACED BETWEEN THESE EXPANSION JOINTS AT DISTANCES NOT EXCEEDING 20 FEET. ALL TIE BARS SHALL BE DEFORMED–ALL DOWEL BARS SHALL BE SMOOTH.

NOTE: ALL TIE BARS AND DOWEL BARS TO BE EPOXY COATED.

*AT LOCATIONS REQUIRING DEPRESSED CURBS SEE THE ADA STANDARDS FOR CONSTRUCTION DETAILS

CDOT CHICAGO DEPARTMENT OF TRANSPORTATION

DATE	REVISION	CITY OF CHICAGO		
1/1/2014	REVISION 1	CONCRETE CURB & GUTTER DETAIL		
		DATE	SHEET A-2-6	DRAWN BY
		12/12/06		CDOT

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gonzalez
GONZALEZ COMPANIES, LLC
PRO. ENGINEER 184004564-0014

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	DRAWN - CM	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
CDOT A–2–6

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

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	175
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

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NOTE BOOK	SURVEYED	BY
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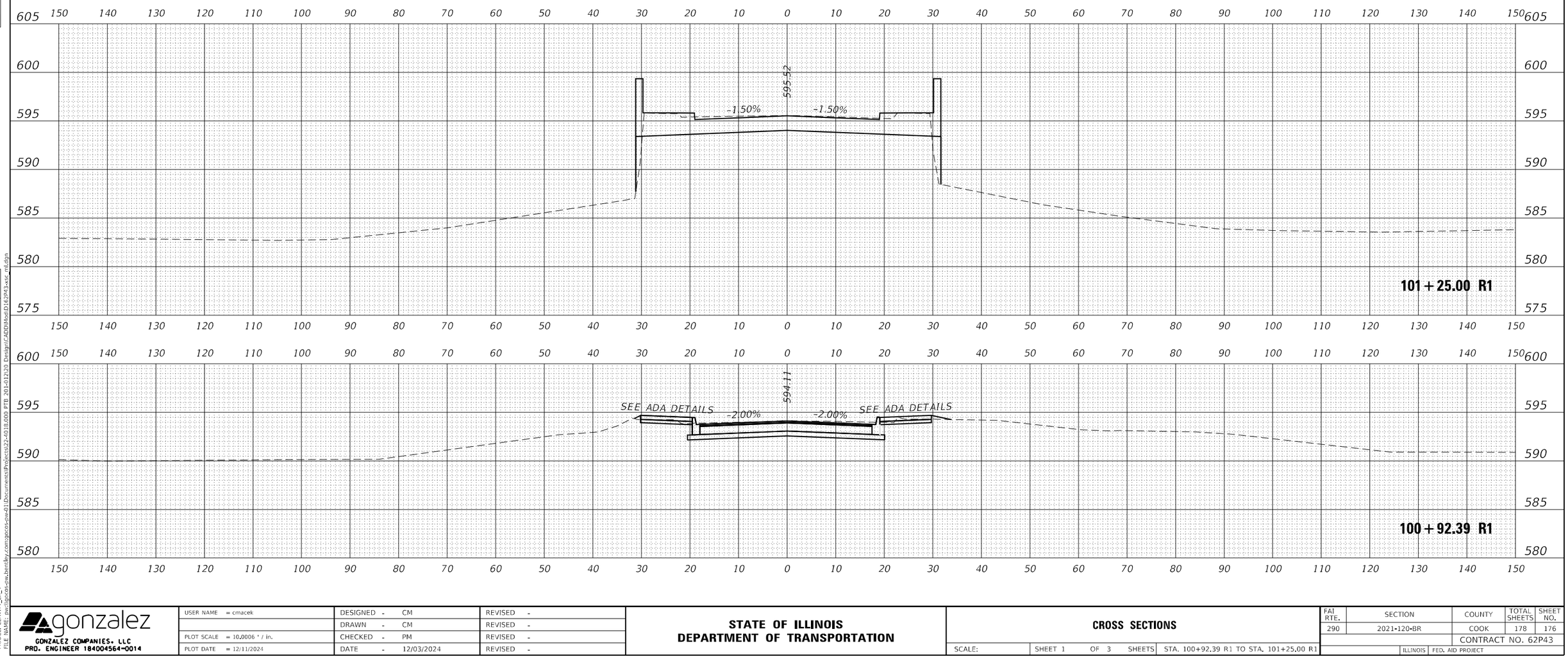
	AREAS	
	AREAS CHECKED	



ORIGINAL SURVEY		DATE
NOTE BOOK	SURVEYED	BY
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PRO. ENGINEER 184004564-0014

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PLOT DATE = 12/11/2024	DATE - 12/03/2024		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET 1 OF 3 SHEETS | STA. 100+92.39 R1 TO STA. 101+25.00 R1

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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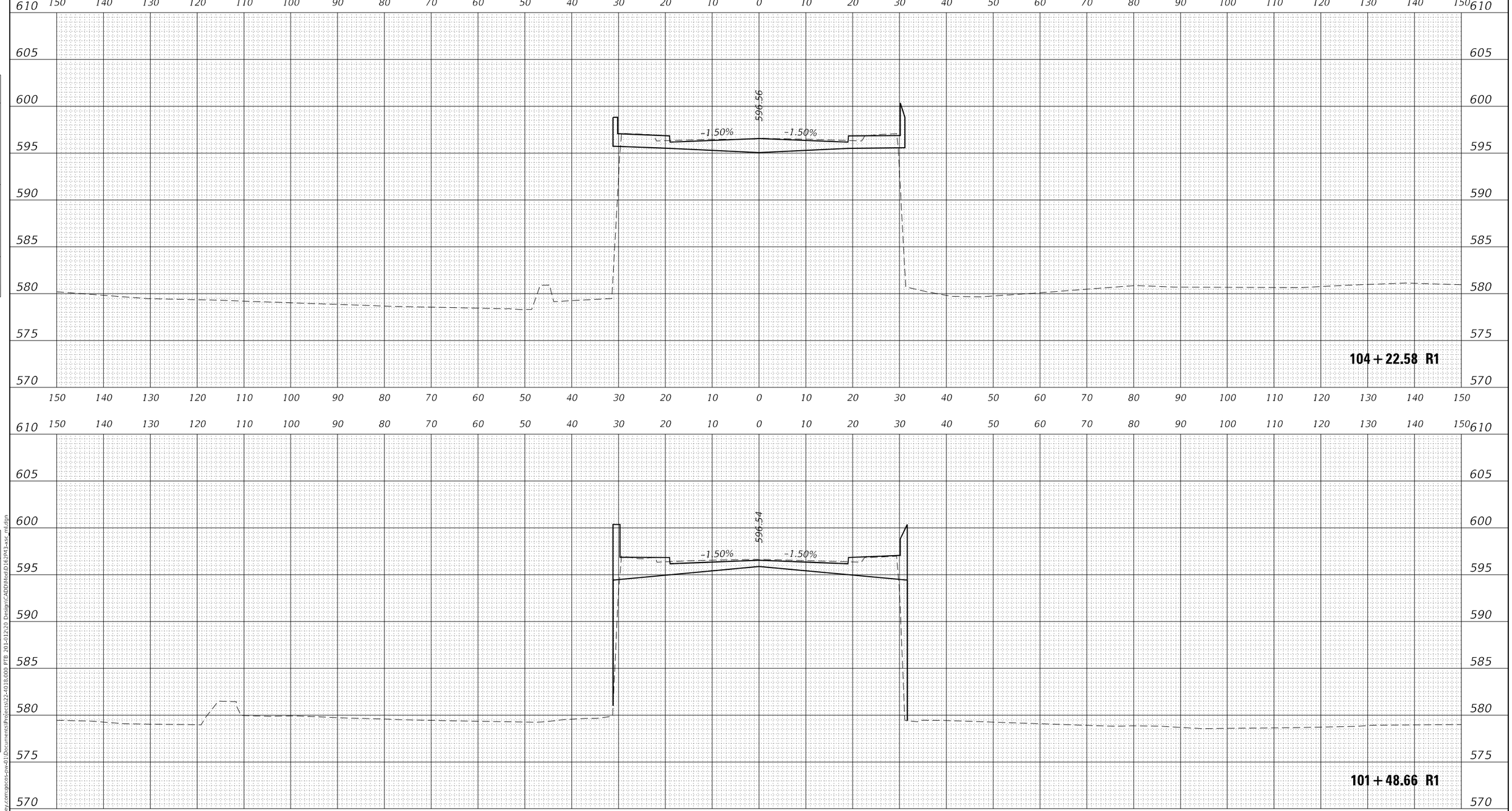
		CONTRACT NO. 62P43		
	ILLINOIS FED. AID PROJECT			



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

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PRO. ENGINEER 184004564-0014

USER NAME = cmacek	DESIGNED - CM	REVISED -
	DRAWN - CM	REVISED -
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PLOT DATE = 12/11/2024	DATE - 12/03/2024	REVISED -

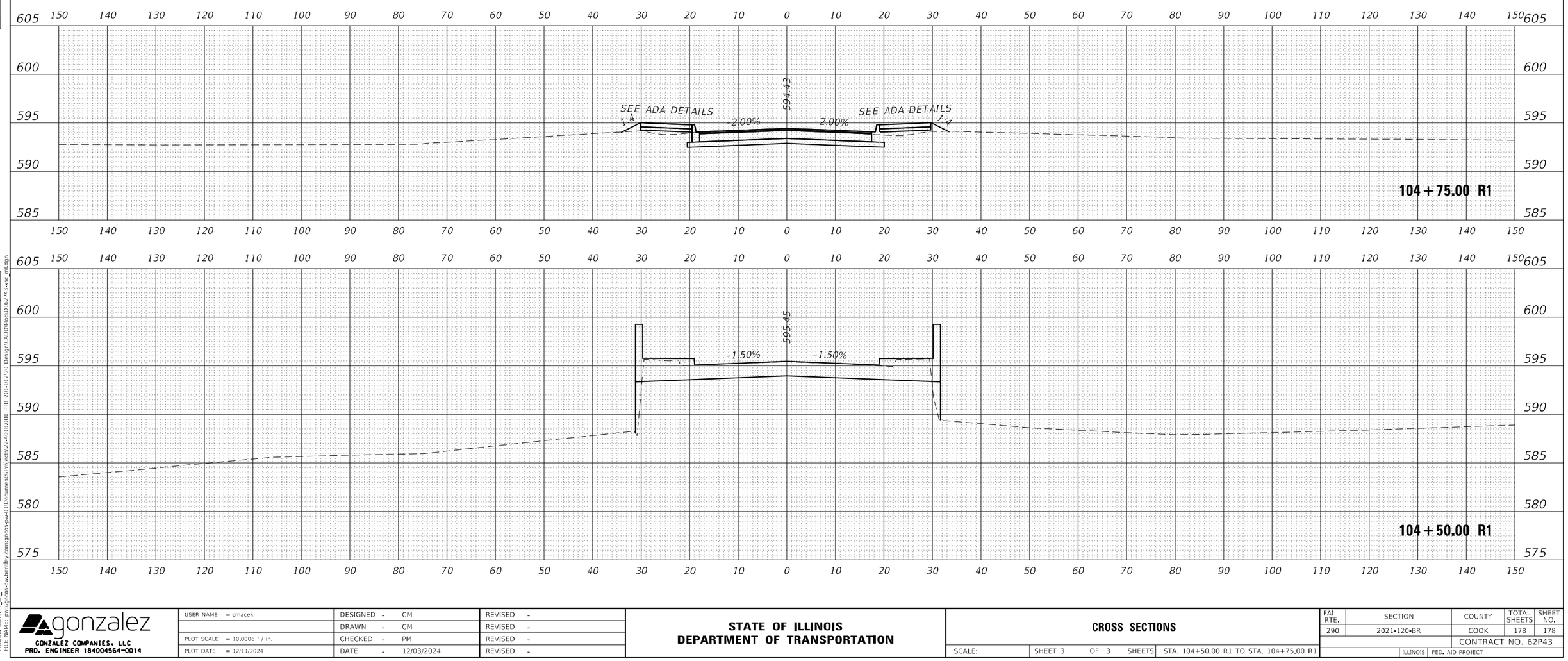
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET 2 OF 3 SHEETS | STA. 101+48.66 R1 TO STA. 104+22.58 R1

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	177
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		

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



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

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PRO. ENGINEER 184004564-0014

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PLOT DATE = 12/11/2024	DATE - 12/03/2024		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET 3 OF 3 SHEETS | STA. 104+50.00 R1 TO STA. 104+75.00 R1

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-120-BR	COOK	178	178
		CONTRACT NO. 62P43		
	ILLINOIS	FED. AID PROJECT		