

09-18-2015 LETTING ITEM 014

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY CLASSIFICATION

PRIMARY ARTERIAL (CDOT)

TRAFFIC DATA

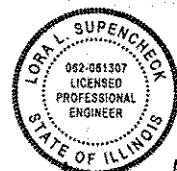
EAST RIVER ROAD

2011 ADT = 20,500

2040 ADT = 21,300

POSTED SPEED LIMIT = 35 MPH

DESIGN SPEED LIMIT = 45 MPH



LORA L. SUPENCHECK

NO: 062-061307

EXP. DATE: 11/30/2015

APPLY TO SHEETS:

1-51, 58-68, 73

104-106, 190-223

MATTHEW C. DURNING

NO: 062-055699

EXP. DATE: 11/30/2015

APPLY TO SHEETS:

74-103

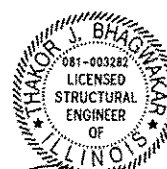
JOHANN F. AAKRE

NO: 081-006828

EXP. DATE: 11/30/2016

APPLY TO SHEETS:

69-72



KAMLESH KUMAR

NO: 081-007216

EXP. DATE: 11/30/2016

APPLY TO SHEETS:

107-109, 111-112,

114-140, 151-161

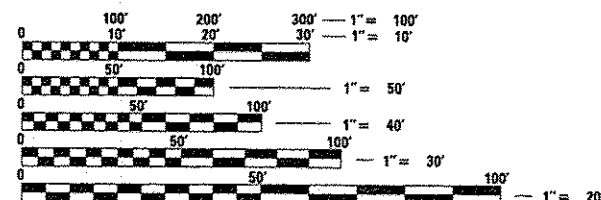
THAKOR J. BHAGWAKAR

NO: 081-003282

EXP. DATE: 11/30/2016

APPLY TO SHEETS:

110, 113, 141-150



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811
DIGGER - CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

DISTRICT 1 - DESIGN/CONSULTANT SERVICES SECTION
SERIN KELLER (847)705-4556

CONTRACT NO. 62A64

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 90 (I-90)
AT EAST RIVER ROAD

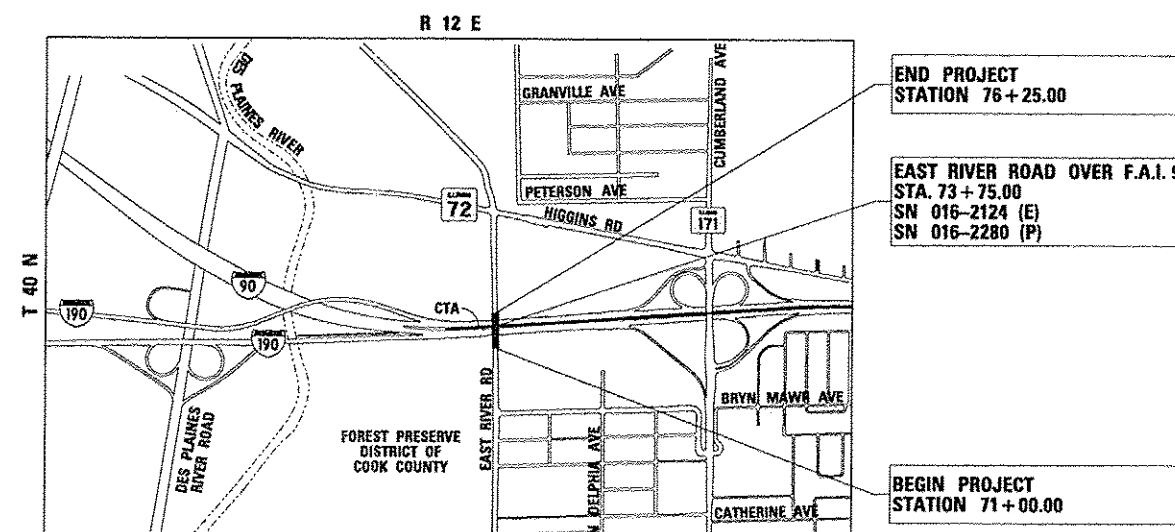
SECTION 1617B(13)

PROJECT NO. ACNHPP-0090 (402)

BRIDGE REPLACEMENT, RECONSTRUCTION, DRAINAGE,
LIGHTING, SIGN MAINTENANCE, WATER MAIN

COOK COUNTY

C-91-283-15



LOCATION MAP
N.T.S.

GROSS LENGTH EAST RIVER ROAD = 525 FT. = 0.10 MILE
NET LENGTH EAST RIVER ROAD = 525 FT. = 0.10 MILE

PROJECT LOCATED IN THE
CITY OF CHICAGO

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	1
ILLINOIS				62A64

* 223 + 1 = 224

D-91-133-14



LOCATION OF SECTION INDICATED THUS: -

HNTB

ONE SOUTH WACKER DRIVE
SUITE 900
CHICAGO, IL 60606
(312) 930-9119
ILLINOIS PROFESSIONAL DESIGN FIRM
REGISTRATION NO. 184.001306

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED July 8 20 15

John F. Baranzelli
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

John D. Baranzelli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Aug 14 20 15

Chris Carson P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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STD. NO.	TITLE
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001006	DECIMAL OF AN INCH AND OF A FOOT
280001 - 07	TEMPORARY EROSION CONTROL SYSTEMS
420001 - 08	PAVEMENT JOINTS
420101 - 05	24' JOINTED PCC PAVEMENT
420401 - 11	BRIDGE APPROACH PAVEMENT CONNECTOR
421001 - 02	BAR REINFORCEMENT FOR CRC PAVEMENT
482001 - 02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001 - 03	NAME PLATE FOR BRIDGES
601101 - 01	CONCRETE HEADWALL FOR PIPE DRAIN
602401 - 03	MANHOLE TYPE A
604071 - 05	FRAME AND GRATE TYPE 20
606001 - 06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301 - 04	PC CONCRETE ISLANDS AND MEDIANS
630001 - 10	STEEL PLATE BEAM GUARDRAIL
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640001 - 01	SIGHT SCREEN CHAIN LINK FENCE
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643001 - 02	SAND MODULE IMPACT ATTENUATORS
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701106 - 02	OFF-RO OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400 - 08	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 09	LANE CLOSURE, FREEWAY/EXPRESSWAY
701428	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446 - 06	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
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720001 - 01	SIGN PANEL MOUNTING DETAILS
720006 - 04	SIGN PANEL ERECTION DETAILS
720011 - 01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720021 - 02	SIGN PANELS - EXTRUDED ALUMINUM TYPE
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN MARKERS)
760001 - 05	TYPICAL PAVEMENT MARKINGS
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DISTRICT 1 DETAILS *

STD. NO.	TITLE
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BD-08	FRAMES AND LIDS ADJUSTMENT WITH MILLING; AND FRAMES AND LIDS ADJUSTMENTS WITHOUT MILLING
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BD-47	CITY OF CHICAGO CATCH BASINS, INLET AND MANHOLE DETAILS
BD-48	PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER
BD-51	BENCHING CONSTRUCTION DETAIL
BE-205	LIGHTING CONTROLLER, BASE MOUNTED, 480 VOLT, 200 AMP (DUAL) RADIO SCADA
BE-220	ELECTRIC SERVICE INSTALLATION - AERIAL, REMOTE DISCONNECT
BE-702	MISC. ELECTRICAL DETAILS - SHEET A
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BE-900	SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC-11	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING (2 SHEETS)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKING
TC-16	PAVEMENT MARKINGS LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-17	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-24	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS

* INCLUDED AS SHEETS 162-189.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	PERCENT AIR VOIDS & NDES	THICKNESS	QMP
SHOULDER RECONSTRUCTION: 1-90			
HOT-MIX ASPHALT SHOULDERS, 13 3/4"			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% & 70 GYR	2"	QC/QA
HMA SHOULDER (HMA BINDER IL-19mm)	4% & 70 GYR	11-3/4"	QC/QA
SHOULDER RESURFACING: 1-90			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% & 70 GYR	2"	QC/QA
TEMPORARY PAVEMENT			
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% & 70 GYR	2"	QC/QA
TEMP PVMT (INTERSTATE) (HMA BINDER IL-19mm)	4% & 70 GYR	9-1/2"	QC/QA
PAVEMENT RESTORATION: SERVICE DRIVE			
HMA BASE COURSE (HMA BINDER IL-19mm)	4% & 70 GYR	8"	QC/QA

QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH.
2. FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.



USER NAME - jleupenchee	DESIGNED - MMK	REVISED -
PLOT SCALE = 1,000' / in.	DRAWN - MMK	REVISED -
PLOT DATE = 7/15/2015	CHECKED - LLS	REVISED -
	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS,
AND HOT-MIX ASPHALT MIXTURE REQUIREMENTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	2
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1.

SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
2.

A MINIMUM OF SEVENTY-TWO HOURS PRIOR TO ANY PLACEMENT OR RELOCATION OF MAINTENANCE OF TRAFFIC DEVICES, CONTACT ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) DISTRICT 1 BUREAU OF TRAFFIC.
3.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.
4.

EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUE SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
5.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.
6.

THE CONTRACTOR SHALL COORDINATE WORK WITH UTILITIES IN ADVANCE OF WORKING IN THE VICINITY OF THEIR FACILITIES, AND ALLOW SUFFICIENT TIME FOR THEM TO PREFORM ADJUSTMENTS TO THEIR FACILITIES IN ACCORDANCE WITH THE CONTRACTOR'S SCHEDULE. COORDINATION EFFORTS SHALL BE INCLUDED IN THE COST OF THE CONTRACT BID PRICE.
7.

THE CONTRACTOR MUST CALL THE IDOT ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT FACILITY CABLES.
8.

ALL SEWER AND WATER SERVICES CROSSED BY NEW STORM SEWERS SHALL BE PROPERLY LOCATED AND PROTECTED DURING CONSTRUCTION, ANY DAMAGE DONE TO SAID SERVICES NOT CONSIDERED TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
9.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
10.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
11.

ALL ELEVATIONS REFER TO USGS MEAN SEA LEVEL DATUM.
12.

THE PAVEMENT ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.
13.

10 FT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
14.

THE COST OF FULL OR PARTIAL DEPTH SAW CUTS REQUIRED FOR REMOVAL ITEMS SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE ITEM.
15.

THE ACTUAL NEED FOR AGGREGATE SUBGRADE IMPROVEMENT SHALL BE DETERMINED IN THE FIELD FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT 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 CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/ OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH AGGREGATE SUBGRADE IMPROVEMENT OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSTABLE AND/ OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

GENERAL NOTES (CONTINUED)

16.

FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
17.

THE CITY OF CHICAGO IS TO MAKE ADJUSTMENTS TO THEIR STREET LIGHTING. THE CONTRACTOR SHALL COORDINATE HIS WORK AND COOPERATE WITH THE CITY OF CHICAGO IN THESE ADJUSTMENTS. THIS COORDINATION AND COOPERATION BY THE CONTRACTOR WILL NOT BE AIO FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PAY ITEM MAINTENANCE OF LIGHTING SYSTEM.
18.

WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AIR TRAFFIC AND ADJOINING COMMERCIAL AREAS.
19.

BARRICADES: TYPE I, TYPE II, AND TYPE III BARRICADES SHALL BE WEIGHTED IN A MANNER APPROVED BY THE MANUFACTURER SO THEY ARE NOT MOVED BY TRAFFIC.
20.

WET REFLECTIVE TEMPORARY TAPE TYPE III SHALL BE USED ON THE FINAL WEARING SURFACE. TEMPORARY PAVEMENT MARKING CONSISTING OF EPOXY OR POLYUREA PAVEMENT MARKING SHALL NOT BE APPLIED TO THE FINAL WEARING SURFACE UNLESS AUTHORIZED BY THE ENGINEER FOR THE LATE SEASON APPLICATION WHERE TAPE ADHESION WOULD BE A PROBLEM.
21.

THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 of the SWPPP, THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

COMMITMENTS

- COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.
1.

THE DEPARTMENT HAS MADE A COMMITMENT WITH THE CITY OF CHICAGO THAT EAST RIVER ROAD BRIDGE WILL NOT BE CLOSED FOR MORE THAN ONE CONSTRUCTION SEASON.

DRAINAGE GENERAL NOTES

1.

SEE DRAINAGE DETAIL SHEETS FOR DRAINAGE STRUCTURE OFFSET AND RIM ELEVATION LOCATION.
2.

THE COST OF MAKING SEWER AND UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES AND BREAKING NEW HOLES INTO EXISTING OR PROPOSED DRAINAGE STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE COST FOR DRAINAGE WORK.
3.

PROPOSED RIM AND INVERT ELEVATIONS ARE BASED ON EXISTING THEORETICAL GRADES. ACTUAL FINAL GRADES ARE SUBJECT TO NOMINAL VARIATIONS. ADJUSTMENT OF PROPOSED CASTINGS TO FINAL GRADES IS INCLUDED IN THE COST OF THE RELATED DRAINAGE STRUCTURE. ADJUSTMENT OF PROPOSED PIPE INVERTS TO FINAL GRADES IS INCLUDED IN THE COST OF THE RELATED DRAINAGE PIPE.
4.

SUFFICIENT DRAINAGE FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO FACILITATE SURFACE RUNOFF. WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER, OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SO AFFECTED SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLAN HIS OPERATIONS, WITH THE APPROVAL OF THE ENGINEER IN THE FIELD, SO AS TO UTILIZE THE FACILITIES PROVIDED TO PREVENT LOCAL FLOODING AND ENSURE PROPER SURFACE RUNOFF. ANY MINOR DITCH GRADING AND ANY BULKHEADING AS DIRECTED BY THE ENGINEER, NECESSARY TO PROVIDE FOR THE INTERIM DRAINAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
5.

ALL STORM SEWERS, PIPE CULVERTS, CATCH BASINS, MANHOLES, INLETS AND SIMILAR STRUCTURES NEWLY CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS, OR FOREIGN MATTER OF ANY KIND AND SHALL BE FREE FROM SUCH ACCUMULATIONS AT THE TIME OF FINAL INSPECTION. THE COST OF ANY CLEANING REQUIRED TO COMPLY WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
6.

THE CONTRACTOR SHALL VERIFY EXISTING OUTLET STRUCTURE LOCATION AND INVERTS PRIOR TO STARTING UPSTREAM STORM SEWER CONNECTION AND CONSTRUCTION.

FILE NAME: C:\GIS\Map4_Alt_00000002.dgn



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	DRAWN - MMK	REVISED -
PLOT SCALE = 1:8000' / 1" =	CHECKED - LLS	REVISED -
PLOT DATE = 3/12/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	3
				CONTRACT NO. 62A64
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY	BRIDGE	LIGHTING	WATERMAIN
				0004	0011	0021	0043
				URBAN	URBAN	URBAN	URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	102	102			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	110	76			34
20200100	EARTH EXCAVATION	CU YD	9,820	9,321			499
20800150	TRENCH BACKFILL	CU YD	185	175			10
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	848	848			
25000210	SEEDING, CLASS 2A	ACRE	2.4	2.4			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	208	208			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	208	208			
25100115	MULCH, METHOD 2	ACRE	2.4	2.4			
25100630	EROSION CONTROL BLANKET	SQ YD	10,810	10,810			
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	224	224			
28000400	PERIMETER EROSION BARRIER	FOOT	1,768	1,768			
28000510	INLET FILTERS	EACH	9	9			
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	10,810	10,810			

• SPECIALITY ITEM

FILE NAME: 16178(13).S00-01.dgn



USER NAME = lsuponcheck	DESIGNED -	REVISED -
PLOT SCALE = 1.00" = 10'	DRAWN -	REVISED -
PLOT DATE = 7/15/2015	CHECKED -	REVISED -
	DATE = 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
90	16178(13)	COOK	223	4
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

S00-01

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY	BRIDGE	LIGHTING	WATERMAIN
				0004	0011	0021	0043
				URBAN	URBAN	URBAN	URBAN
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	149	149			
48203052	HOT-MIX ASPHALT SHOULDERS, 13 3/4"	SQ YD	208	208			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		
50157300	PROTECTIVE SHIELD	SQ YD	1,746		1,746		
50200100	STRUCTURE EXCAVATION	CU YD	2,496		2,496		
50300225	CONCRETE STRUCTURES	CU YD	897.6		897.6		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	964.3		964.3		
50300260	BRIDGE DECK GROOVING	SQ YD	2,010		2,010		
50300300	PROTECTIVE COAT	SQ YD	3,743		3,743		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1		
50500505	STUD SHEAR CONNECTORS	EACH	10,494		10,494		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	303,562		303,562		
50901730	BRIDGE FENCE RAILING	FOOT	1,129		1,129		
51100100	SLOPE WALL 4 INCH	SQ YD	441		441		

• SPECIALITY ITEM

FILE NAME: S:\1617B\1617B-03.dgn
 SHEET: 3 OF 6

HNTB

USER NAME = jsupencheck	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -
PLOT DATE = 7/15/2015	DATE = 03/20/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	6
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

S00-03

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY	BRIDGE	LIGHTING	WATERMAIN
				0004	0011	0021	0043
				URBAN	URBAN	URBAN	URBAN
56103520	DUCTILE IRON WATER MAIN 24"	FOOT	433				433
56105000	WATER VALVES 8"	EACH	1				1
56105300	WATER VALVES 16"	EACH	1				1
56105420	WATER VALVES 24"	EACH	1				1
58700300	CONCRETE SEALER	SQ FT	1,613		1,613		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	257		257		
60219510	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 20 FRAME AND GRATE	EACH	1	1			
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1			
60500040	REMOVING MANHOLES	EACH	7	7			
60500050	REMOVING CATCH BASINS	EACH	5	5			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	297	297			
60619200	CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	591	591			
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200	200			
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2			

• SPECIALITY ITEM

FILE NAME: 16178(13).IN-500-05.dgn



USER NAME = lsupencheck	DESIGNED -	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE = 7/19/2015	CHECKED -	REVISED -
	DATE = 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	16178(13)	COOK	223	8
CONTRACT NO. 62464				
ILLINOIS FED. AID PROJECT				

S00-05

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY	BRIDGE	LIGHTING	WATERMAIN
				0004	0011	0021	0043
				URBAN	URBAN	URBAN	URBAN
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2			
63200310	GUARDRAIL REMOVAL	FOOT	574	574			
64000120	SIGHT SCREEN (CHAIN LINK FENCE) 8'	FOOT	296	296			
64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1			
66400105	CHAIN LINK FENCE, 4'	FOOT	599	599			
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,850	1,850			
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1			
66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2			
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	13	13			
67100100	MOBILIZATION	L SUM	1	1			
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	24	24			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,030	1,030			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,499	3,499			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,338	1,338			

* SPECIALITY ITEM

FILE NAME: I:\2016\62A64-1A\S00-06.dgn



USER NAME - Jmupencheck	DESIGNED -	REVISED -
PLOT SCALE - 1/8" = 1' in.	DRAWN -	REVISED -
PLOT DATE - 7/15/2015	CHECKED -	REVISED -
	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 6 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	9
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

S00-06

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY	BRIDGE	LIGHTING	WATERMAIN
				0004	0011	0021	0043
				URBAN	URBAN	URBAN	URBAN
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3	3			
72000200	SIGN PANEL - TYPE 2	SQ FT	71.25	71.25			
72000300	SIGN PANEL - TYPE 3	SQ FT	1,123.00	1,123.00			
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1			
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1			
73000100	WOOD SIGN SUPPORT	FOOT	58	58			
73304000	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	97	97			
73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	2	2			
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	37	37			
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,456	6,456			
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	884	884			
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	344	344			
78003120	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"	FOOT	1,552	1,552			
78003140	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 8"	FOOT	1,181	1,181			

* SPECIALITY ITEM



USER NAME : jsupancheck	DESIGNED -	REVISED -
PLOT SCALE : 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE : 7/15/2015	CHECKED -	REVISED -
	DATE : 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.I. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	10
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

S00-07

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY	BRIDGE	LIGHTING	WATERMAIN
				0004	0011	0021	0043
				URBAN	URBAN	URBAN	URBAN
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	262	262			
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	259	259			
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	20	20			
78100300	REPLACEMENT REFLECTOR	EACH	25	25			
78200530	BARRIER WALL MARKERS, TYPE C	EACH	108	108			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	4,344	4,344			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	248	248			
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2			2	
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1			1	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	100			100	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	650			650	
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	720			720	
81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	980			980	
81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	150			150	

* SPECIALITY ITEM

FILE NAME: S:\CH2016\44-500-08-000



USER NAME = laupencheck	DESIGNED -	REVISED -
PLOT SCALE = 1.00" / 1"	DRAWN -	REVISED -
PLOT DATE = 7/10/2015	CHECKED -	REVISED -
	DATE = 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	11
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

S00-08

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY	BRIDGE	LIGHTING	WATERMAIN
				0004	0011	0021	0043
				URBAN	URBAN	URBAN	URBAN
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	10			10	
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	5			5	
81300915	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 20" X 20" X 8"	EACH	2			2	
81603080	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	920			920	
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,880			2,880	
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	1,030			1,030	
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	6,480			6,480	
81702220	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	800			800	
81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	2,450			2,450	
82107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	2			2	
82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8			8	
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	9			9	
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1			1	
Z0004552	APPROACH SLAB REMOVAL	SQ YD	228	228			

• SPECIALITY ITEM

FILE NAME: I:\0167664\151\500-09\500-09.dgn



USER NAME = jaypencheck	DESIGNED -	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE = 7/15/2015	CHECKED -	REVISED -
	DATE = 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	12
				CONTRACT NO. 62A64
ILLINOIS FED. AID PROJECT				

S00-09

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY 0004 URBAN	BRIDGE 0011 URBAN	LIGHTING 0021 URBAN	WATERMAIN 0043 URBAN
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SO YD	99	99			
Z0007510	ENGINEERING BARRIER	SO YD	500	500			
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SO YD	209	209			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	10		10		
Z0018800	DRAINAGE SYSTEM	L SUM	1		1		
Z0022800	FENCE REMOVAL	FOOT	1,381	1,381			
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	706	706			
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12			12	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	262		262		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
Z0062456	TEMPORARY PAVEMENT	SO YD	809	809			
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	1,323		959		364
X0321963	MICRO-PILES	EACH	24		24		

14

• SPECIALITY ITEM

HNTB

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 10 OF 14 SHEETS STA. TO STA.

SECTION 1617B(3)
COUNTY COOK
TOTAL SHEETS 223
SHEET NO. 13
CONTRACT NO. 62A64
ILLINOIS FED. AID PROJECT

S00-10

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY 0004 URBAN	BRIDGE 0011 URBAN	LIGHTING 0021 URBAN	WATERMAIN 0043 URBAN
X0322141	REMOVE TEMPORARY WOOD POLE	EACH	1			1	
X0322400	PILE EXTRACTION	EACH	121		121		
X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER	EACH	1	1			
X0323432	MICROPILE LOAD TEST	EACH	1		1		
X0323433	MICROPILE PROOF LOAD TEST	EACH	1		1		
X0324571	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1			1	
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	300			300	
X0326133	TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	3			3	
X0326326	CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	1,395			1,395	
X0326955	REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICE	EACH	2			2	
X0327073	STEEL CASING PIPE, BORED AND JACKED, 42"	FOOT	290				290
X0327393	WOOD POLE, 100 FT, CLASS 2	EACH	9			9	
X0327679	STEEL CASING PIPE, BORED AND JACKED, 30"	FOOT	282				282
X0327682	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT ENGINEERING SERVICES	L SUM	1	1			

14
• SPECIALITY ITEM

S00-11

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY 0004 URBAN	BRIDGE 0011 URBAN	LIGHTING 0021 URBAN	WATERMAIN 0043 URBAN
X2020502	BRACED EXCAVATION	CU YD	141		141		
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	190			190	
X5011100	FOUNDATION REMOVAL	EACH	3			3	
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	519		519		
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	4,580		4,580		
X5210150	HIGH LOAD MULTI-ROTATIONAL BEARINGS, GUIDED EXPANSION, 400K	EACH	11		11		
X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	791				791
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	2,081		2,081		
X6020084	MANHOLE, SPECIAL	EACH	2	2			
X6022505	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE I FRAME, OPEN LID (CITY OF CHICAGO)	EACH	4	4			
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	13	13			
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1			
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	365	365			
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	36	36			

• SPECIALITY ITEM

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DATE 03/20/2015

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: H.T.S. SHEET 12 OF 14 SHEETS STA. TO STA.

SECTION
161/B13
COUNTY
COOK
TOTAL SHEETS
223
SHEET NO.
15
CONTRACT NO. 62A64

S00-12

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROWY 0004 URBAN	BRIDGE 0011 URBAN	LIGHTING 0021 URBAN	WATERMAIN 0043 URBAN
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	6,244	6,244			
X7030035	WET REFLECTIVE TEMPORARY TAPE TYPE III, 5 INCH	FOOT	2,099	2,099			
X7030045	WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH	FOOT	705	705			
X7030050	WET REFLECTIVE TEMPORARY TAPE TYPE III, 12 INCH	FOOT	56	56			
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	60	60			
X7340102	CONCRETE FOUNDATION, STREET LIGHTING CONTROLLER	EACH	1			1	
X7830072	GROOVING FOR RECESSED PAVEMENT MARKING 6"	FOOT	1,552	1,552			
X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1,181	1,181			
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1			1	
X8100863	INTERCEPT EXISTING CONDUIT	EACH	2			2	
X8130110	JUNCTION BOX (SPECIAL)	EACH	3			3	
X8180060	AERIAL CABLE, 3-1/C NO. 2, ALUMINUM, WITH MESSENGER WIRE	FOOT	500			500	
X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	6			6	
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1			1	

• SPECIALITY ITEM

HNTB

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 13 OF 14 SHEETS: STA. TO STA.

F.A.I. RTE. 90	SECTION 1617B(13)	COUNTY COOK	TOTAL SHEETS 223	SHEET NO. 16
CONTRACT NO. 62A64				

S00-13

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				RDWY 0004 URBAN	BRIDGE 0011 URBAN	LIGHTING 0021 URBAN	WATERMAIN 0043 URBAN
X8251388	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA	EACH	1			1	
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	2			2	
X8410103	REMOVE TEMPORARY LIGHTING SYSTEM	L SUM	1			1	
X8420111	REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8			8	
X8950077	REMOVE AND RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1			1	
X8950085	REMOVE EXISTING LIGHTING CONTROLLER, SPECIAL	EACH	1			1	
X1400116	CONDUIT, BORED AND PULLED, GALVANIZED STEEL, 2", SPECIAL	FOOT	295			295	
X1400117	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3/C NO. 2 & 1/C NO. 8 GROUND	FOOT	400			400	
X7011006	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1			
X1200046	STORM SEWERS, CLASS B, TYPE 2 8"	FOOT	217	217			
X1400118	CONDUIT SPECIAL	FOOT	300			300	

• SPECIALITY ITEM

HNTB

DESIGNED
DRAWN
CHECKED
DATE 03/20/2015

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S.

SHEET 14 OF 14 SHEETS STA.

TO STA.

F.A.I.
RTE.
90

SECTION
1617B(13)

COUNTY
COOK

S00-14

TOTAL SHEET
SHEETS NO.
223 17

CONTRACT NO. 62A64

ILLINOIS FED. AID PROJECT

FILE NAME = ...\\00265-att-typsectal-01.dgn



USER NAME = lsupencheck	DESIGNED - LLS	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
EAST RIVER ROAD

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	18
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

TYP-01

EXISTING LEGEND

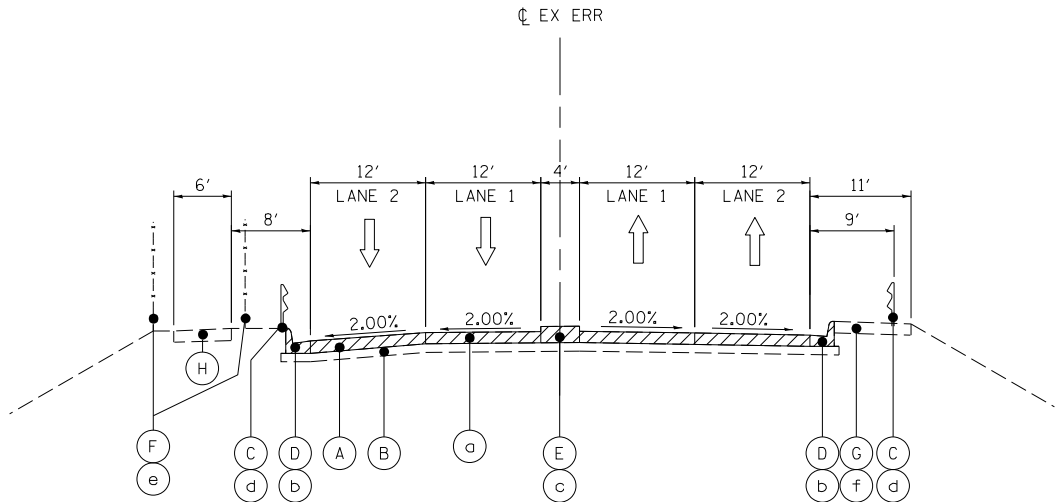
- (A) EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 12"
- (B) EXISTING 6" +/- AGGREGATE SUB-BASE
- (C) EXISTING STEEL PLATE BEAM GUARDRAIL
- (D) EXISTING CONCRETE CURB AND GUTTER
- (E) EXISTING CONCRETE MEDIAN
- (F) EXISTING CHAIN LINK FENCE
- (G) EXISTING HMA STABILIZATION AT GUARDRAIL
- (H) EXISTING AGGREGATE EQUESTRIAN PATH

REMOVAL LEGEND

- (a) PAVEMENT REMOVAL
- (b) COMBINATION CURB AND GUTTER REMOVAL
- (c) MEDIAN REMOVAL
- (d) GUARDRAIL REMOVAL
- (e) FENCE REMOVAL
- (f) PAVED SHOULDER REMOVAL

PROPOSED LEGEND

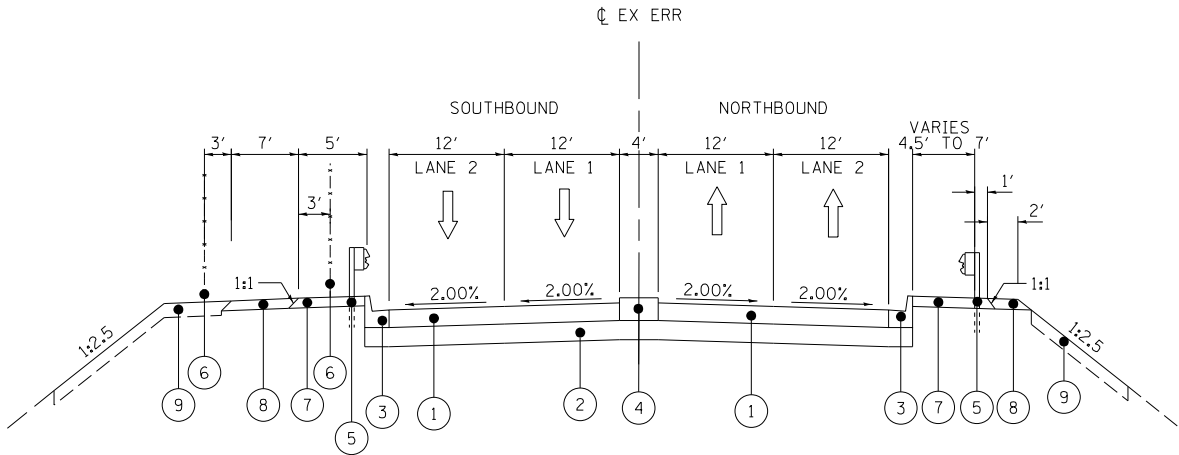
- (1) PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- (2) AGGREGATE BASE COURSE, TYPE B, 8"
- (3) COMBINATION CURB AND GUTTER, TYPE B-6.24
- (4) CONCRETE MEDIAN, TYPE SB-6.06
- (5) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (6) SIGHT SCREEN (CHAIN LINK FENCE) 8'
- (7) HMA STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- (8) AGGREGATE SHOULDERS, TYPE B, 8"
- (9) TOPSOIL EXCAVATION AND PLACEMENT, 6"



EXISTING TYPICAL SECTION

EAST RIVER ROAD

STA. 71+00.00 TO STA. 76+25.00
BRIDGE OMISSION STA. 72+33.53 TO STA. 74+98.63



PROPOSED TYPICAL SECTION

EAST RIVER ROAD

STA. 71+00.00 TO STA. 76+25.00
BRIDGE OMISSION STA. 71+63.86 TO STA. 75+40.70

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EROSION CONTROL SCHEDULE OF QUANTITIES

	25100630 EROSION CONTROL BLANKET	28000250 TEMPORARY EROSION CONTROL SEEDING	28000400 PERIMETER EROSION BARRIER	28000510 INLET FILTERS	28001100 TEMPORARY EROSION CONTROL BLANKET	Z0013797 STABILIZED CONSTRUCTION ENTRANCE
	SQ YD	POUND	FOOT	EACH	SQ YD	SQ YD
NW	2289	47	294	1	2289	104
NE	2869	59	829	1	2869	
SE	1766	36	266	1	1766	105
SW	3886	80	380	1	3886	
EB I-90				3		
WB I-90				2		
TOTALS	10810	224	1768	9	10810	209

LANDSCAPE SCHEDULE OF QUANTITIES

	25000210 SEEDING, CLASS 2A	25000400 NITROGEN FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100115 MULCH, METHOD 2
	ACRE	POUND	POUND	ACRE
NW	0.5	43	43	0.5
NE	0.6	53	53	0.6
SE	0.5	40	40	0.5
SW	0.8	72	72	0.8
TOTALS	2.4	208	208	2.4

REMOVAL SCHEDULE OF QUANTITIES

	44000100 PAVEMENT REMOVAL	44000157 HOT-MIX ASPHALT SURFACE REMOVAL, 2"	44000500 COMBINATION CURB AND GUTTER REMOVAL	44001980 CONCRETE BARRIER REMOVAL	44003100 MEDIAN REMOVAL	44004250 PAVED SHOULDER REMOVAL	63200310 GUARDRAIL REMOVAL	Z0004552 APPROACH SLAB REMOVAL	Z0022800 FENCE REMOVAL
	SQ YD	SQ YD	FOOT	FOOT	SQ FT	SQ YD	FOOT	SQ YD	FOOT
NW	287		125		251	16	119	56	130
NE	290		105		251	89	105	58	
SE	305		112		267	111	128	58	
SW	308		135		269	0	127	56	351
EB I-90				226		174			470
WB I-90		2519	81	190		327	95		430
TOTALS	1190	2519	557	416	1038	718	574	228	1381

GUARDRAIL SCHEDULE OF QUANTITIES

	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63100070 TRAFFIC BARRIER TERMINAL, TYPE 5	63100085 TRAFFIC BARRIER TERMINAL, TYPE 6	64300450 IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	Z0005216 HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
	FOOT	EACH	EACH	EACH	SQ YD
NW	50		1		29
NE	75	1			28
SE	25		1		22
SW	50	1		1	21
TOTALS	200	2	2	1	99

TREE SCHEDULE OF QUANTITIES

		20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)	20100210 TREE REMOVAL (OVER15 UNITS DIAMETER)
		UNIT	UNIT
3000+90	203' RT	12	
3011+53	196' RT	8	
3011+76	198' RT	8	
3011+77	121' RT	12	
3011+99	186' RT	8	
3012+03	159' RT	8	
3013+09	170' RT	8	
3012+11	122' LT	6	
3013+18	134' LT	8	
3013+42	178' LT	12	
3013+49	186' LT	12	
3013+69	160' RT		36
3011+93	101' LT		24
3013+21	115' LT		16
	WATERMAIN		34
TOTALS		102	110



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE:	SHEET 1	OF 4	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	19
		CONTRACT NO. 62A64		
		ILLINOIS	FED. AID PROJECT	

SCH-01

ROADWAY SCHEDULE OF QUANTITIES

	30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"	35102000 AGGREGATE BASE COURSE, TYPE B 8"	40600275 BITUMINOUS MATERIALS (PRIME COAT)	40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	42000501 PORTLAND CEMENT CONCRETE PAVEMENT 10"	42001300 PROTECTIVE COAT	42001420 BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	48101600 AGGREGATE SHOULDERS, TYPE B 8"	48203052 HOT-MIX ASPHALT SHOULDERS, 13 3/4"	60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6,24	60619200 CONCRETE MEDIAN, TYPE SB-6.06	64000120 SIGHT SCREEN (CHAIN LINK FENCE) 8'	66400105 CHAIN LINK FENCE, 4'
	SQ YD	SQ YD	POUND	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	SQ FT	FOOT	FOOT
NW		270			198	246	29	68		86	169	173	133
NE		265			198	244	25	19		83	168		105
SE		205			144	188	25	14		66	127		
SW		200			144	187	29	48		62	127	124	183
EB I-90	157		94						50				178
WB I-90	859		1497	282					157				
TOTALS	1016	941	1591	282	684	865	107	149	208	297	591	296	599

PAVEMENT MARKING SCHEDULE OF QUANTITIES

		78000100 THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS	78000200 THERMOPLASTIC PAVEMENT MARKING -LINE 4"	78000500 THERMOPLASTIC PAVEMENT MARKING -LINE 8"	78000600 THERMOPLASTIC PAVEMENT MARKING -LINE 12"	78003120 PREFORMED PLASTIC TYPE B -LINE 5"	78003140 PREFORMED PLASTIC TYPE B -LINE 8"	78008210 POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	78100100 RAISED REFLECTIVE PAVEMENT MARKER	78100101 RAISED REFLECTIVE PAVEMENT MARKER BRIDGE	78300100 PAVEMENT MARKING REMOVAL	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	X7830072 GROOVING FOR RECESSED PAVEMENT MARKING 6"	X7830072 GROOVING FOR RECESSED PAVEMENT MARKING 9"
		(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(SQ FT)	(EACH)	(FOOT)	(FOOT)
I-90	WB LEFT EOP		2746								916			
	WB LANE 1					686			69		286	69	686	
	WB LANE 2					686			69		286	69	686	
	WB LANE 3						447		50		298	50		447
	WB RIGHT EOP	37	2296	443	173				12		1061	12		
I-190	WB LEFT EOP		260	441	171				12		381	12		
	WB LANE 1					65	734		27		517	27	65	734
	WB RIGHT EOP		693								231			
	EB LANE 2					115			12		368	9	115	
	EB RIGHT EOP		461											
EAST RIVER ROAD	NORTHBOUND							131	4	10				
	SOUTHBOUND							131	4	10				
TOTALS		37	6456	884	344	1552	1181	262	259	20	4344	248	1552	1181

FILE NAME : p:\m\hntb\561m\hntb.org\P\Create\Create Lakes\Documents\Chicago Projects\30120 I-190 Cumberland\Design\CADD\Contract\62A64\CADD_Sheets\0162A64-sh-tt-schedule-02.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE:	SHEET 2	OF 4	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	20
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

SCH-02

SCHEDULE OF QUANTITIES – TEMPORARY

	70300240 TEMPORARY PAVEMENT MARKING - LINE 6"	70400100 TEMPORARY CONCRETE BARRIER	70600250 IMPACT ATTENUATORS TEMP. (NR) TEST LEVEL 3	78200530 BARRIER WALL MARKERS, TYPE C	Z0062456 TEMPORARY PAVEMENT	X7030025 WET REFLECTIVE TEMP. TAPE, TYPE III LETTERS & SYMBOLS	X7030030 WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	X7030035 WET REFLECTIVE TEMPORARY TAPE TYPE III, 5 INCH	X7030045 WET REFLECTIVE TEMPORARY TAPE TYPE III, 8 INCH	X7030050 WET REFLECTIVE TEMPORARY TAPE TYPE III, 12 INCH
	FOOT	FOOT	EACH	EACH	SQ YD	SQ FT	FOOT	FOOT	FOOT	FOOT
OUTSIDE SHOULDER WB I-90	340	400	1	32	809		2772			
WB I-90							959	2071	280	56
INSIDE SHOULDERWB I-90	340	588	1	48			2403			
OUTSIDE SHOULDER EB I-90	350	350				36	110		340	
EB I-90			1	28				28	85	
INSIDE SHOULDER EB I-90										
TOTALS	1030	1338	3	108	809	36	6244	2099	705	56

SCHEDULE OF QUANTITIES – EARTHWORK

EARTHWORK SCHEDULE - EASTBOUND I-90									
BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
3011+40.00	3011+50.00	27	0	23	0	23	0	10	11
3011+50.00	3011+60.00	46	0	39	0	39	0	11	12
3011+60.00	3011+70.00	101	0	86	0	86	0	13	14
3011+70.00	3011+80.00	168	0	143	0	143	0	15	16
3011+80.00	3011+90.00	248	0	211	0	211	0	17	19
3011+90.00	3012+00.00	310	0	264	0	264	0	16	19
3012+00.00	3012+10.00	371	0	315	0	315	0	16	9
3012+10.00	3012+20.00	419	0	356	0	356	0	15	0
3012+20.00	3012+30.00	430	0	366	0	366	0	14	0
3012+30.00	3012+40.00	430	0	366	0	366	0	14	0
3012+40.00	3012+50.00	424	0	360	0	360	0	14	0
3012+50.00	3012+60.00	424	0	360	0	360	0	14	0
3012+60.00	3012+70.00	418	0	355	0	355	0	14	0
3012+70.00	3012+80.00	407	0	346	0	346	0	14	0
3012+80.00	3012+90.00	405	0	344	0	344	0	14	0
3012+90.00	3013+00.00	400	0	340	0	340	0	17	11
3013+00.00	3013+10.00	337	0	286	0	286	0	19	21
3013+10.00	3013+20.00	232	0	197	0	197	0	16	17
3013+20.00	3013+30.00	139	0	118	0	118	0	15	15
3013+30.00	3013+40.00	65	0	55	0	55	0	12	13
3013+40.00	3013+50.00	20	0	17	7	10	0	11	11
3013+50.00	3013+60.00	2	0	2	14	-12	0	10	11
3013+60.00	3013+70.00	1	0	1	8	-7	0	8	9
SUB-TOTAL		5,824	0	4,950	29	4,921	0	319	208

*SHRINKAGE FACTOR 15%

FILE NAME : p:\hntb\561\hntb.org\P\Creat-Lakes\Documents\Chicago Projects\30120 I-190_CumbarLand\Design\CADD_Contract\62A64\CADD_Sheets\062A64-sh-tt-schedule-03.dgn



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PLOT DATE = 7/7/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	21
			CONTRACT NO. 62A64	
		ILLINOIS	FED. AID PROJECT	

SCH-03

SCHEDULE OF QUANTITIES – EARTHWORK

EARTHWORK SCHEDULE - EAST RIVER ROAD									
BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
71+00.00	71+25.00	27	0	20	1	19	0	10	14
71+25.00	71+50.00	27	0	20	1	19	0	10	13
71+50.00	71+53.53	4	0	3	0	3	0	1	2
71+53.53	71+58.14	5	0	4	0	4	0	2	2
BRIDGE OMISSION									
75+47.63	75+53.24	5	0	4	1	3	0	2	3
75+53.24	75+75.00	21	0	16	3	13	0	8	9
75+75.00	76+00.00	26	0	20	4	16	0	9	11
76+00.00	76+25.00	26	0	20	5	17	0	10	11
SUB-TOTAL		141	0	106	13	93	0	52	65

*SHRINKAGE FACTOR 15%

EARTHWORK SCHEDULE - EASTBOUND I-90									
BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	TOPSOIL	TOPSOIL EXCAVATION AND PLACEMENT
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
3011+00.00	3011+10.00	1	0	1	2	-1	0	6	5
3011+10.00	3011+20.00	2	0	2	3	-1	0	8	8
3011+20.00	3011+30.00	5	0	4	2	2	0	9	10
3011+30.00	3011+40.00	8	0	7	1	6	0	11	12
3011+40.00	3011+50.00	8	0	7	0	7	0	11	12
3011+50.00	3011+60.00	13	0	11	0	11	0	11	13
3011+60.00	3011+70.00	35	0	30	0	30	0	11	13
3011+70.00	3011+80.00	64	0	54	0	54	0	11	13
3011+80.00	3011+90.00	107	0	91	0	91	0	11	14
3011+90.00	3012+00.00	153	0	130	0	130	0	11	15
3012+00.00	3012+10.00	180	0	153	0	153	0	12	16
3012+10.00	3012+20.00	189	0	161	0	161	0	13	18
3012+20.00	3012+30.00	206	0	175	0	175	0	10	9
3012+30.00	3012+40.00	224	0	190	0	190	0	7	0
3012+40.00	3012+50.00	222	0	189	0	189	0	7	0
3012+50.00	3012+60.00	221	0	188	0	188	0	7	0
3012+60.00	3012+70.00	223	0	190	1	189	0	7	0
3012+70.00	3012+80.00	224	0	190	2	188	0	7	0
3012+80.00	3012+90.00	224	0	190	1	189	0	7	0
3012+90.00	3013+00.00	224	0	190	1	189	0	7	0
3013+00.00	3013+10.00	194	0	165	6	159	0	10	9
3013+10.00	3013+20.00	152	0	129	6	123	0	13	18
3013+20.00	3013+30.00	130	0	111	0	111	0	13	17
3013+30.00	3013+40.00	106	0	90	0	90	0	12	16
3013+40.00	3013+50.00	79	0	67	0	67	0	11	8
3013+50.00	3013+60.00	36	0	31	0	31	0	7	3
3013+60.00	3013+70.00	7	0	6	0	6	0	3	5
3013+70.00	3013+80.00	6	0	5	1	4	0	4	7
3013+80.00	3013+90.00	5	0	4	5	-1	0	6	8
3013+90.00	3014+00.00	5	0	4	8	-4	0	6	9
3014+00.00	3014+25.00	12	0	10	12	-2	0	15	21
3014+25.00	3014+50.00	12	0	10	9	1	0	13	20
3014+50.00	3014+75.00	12	0	10	9	1	0	12	18
3014+75.00	3015+00.00	13	0	11	12	-1	0	10	16
3015+00.00	3015+25.00	12	0	10	19	-9	0	8	15
3015+25.00	3015+50.00	12	0	10	22	-12	0	7	14
3015+50.00	3016+00.00	13	0	11	35	-24	0	16	27
3016+00.00	3016+50.00	2	0	2	15	-13	0	20	26
3016+50.00	3017+00.00	2	0	2	9	-7	0	19	25
3017+00.00	3017+50.00	2	0	2	11	-9	0	19	25
3017+50.00	3018+00.00	2	0	2	11	-9	0	18	23
3018+00.00	3018+50.00	2	0	2	8	-6	0	15	21
3018+50.00	3019+00.00	2	0	2	5	-3	0	14	19
3019+00.00	3019+50.00	2	0	2	4	-2	0	14	19
3019+50.00	3020+00.00	2	0	2	7	-5	0	14	18
3020+00.00	3020+25.00	1	0	1	5	-4	0	7	10
SUB-TOTAL		3,356	0	2,853	232	2,621	0	490	575

*SHRINKAGE FACTOR 15%

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
EARTHWORK SCHEDULES

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

F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90		1617B(13)	COOK	223	22
			CONTRACT NO. 62A64		
		ILLINOIS	FED. AID PROJECT		

SCH-04

FILE NAME : z:\hntb\561\hntb\cong\PC\creat\lakes\Documents\Chicago Projects\30120 I-190 Cumberland Lakes\Design\CADD_Sheets\062A64\CADD_Contract_62A64_sht-01B-01.dgn

ALIGNMENT COORDINATES EAST RIVER ROAD		
STATION	NORTHING	EASTING
POT 65+37.00	1,936,263.91	1,116,640.88
POT 81+96.00	1,937,922.59	1,116,608.06

ALIGNMENT COORDINATES EXISTING I-90		
STATION	NORTHING	EASTING
PC 2997+00.00	1,937,150.07	1,115,063.01
PI 3003+69.18	1,937,040.74	1,115,723.20
PT 3010+32.37	1,937,085.94	1,116,390.86
POT 3044+00.00	1,937,313.43	1,119,750.79

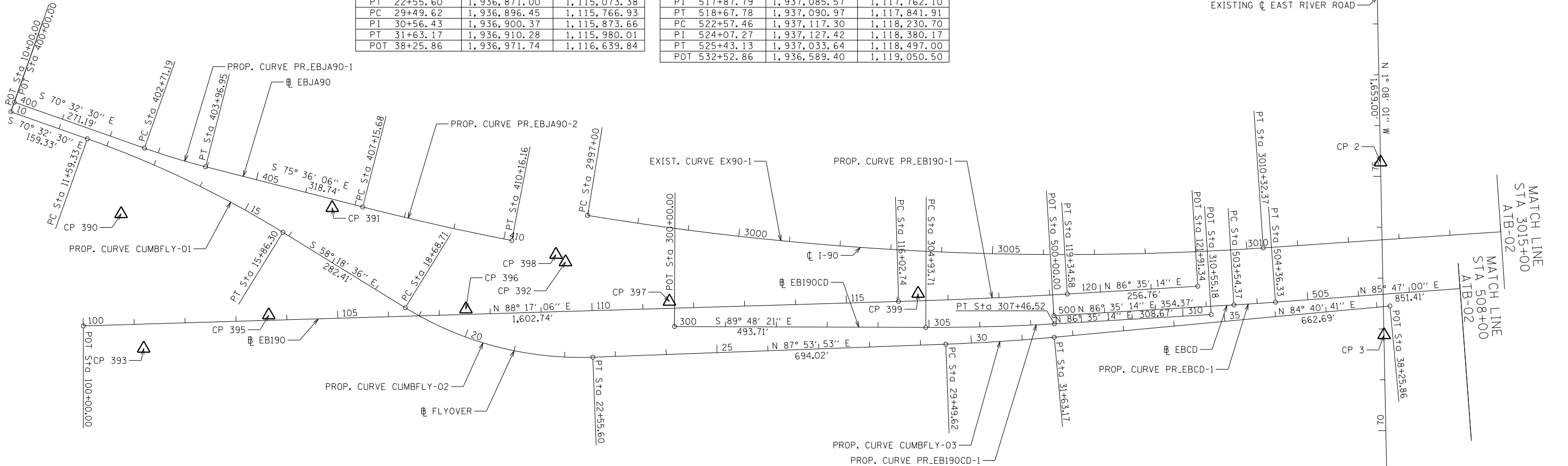
ALIGNMENT COORDINATES PR_EB190		
STATION	NORTHING	EASTING
POT 100+00.00	1,936,932.50	1,114,072.19
PC 116+02.74	1,936,980.47	1,115,674.21
PI 117+68.67	1,936,985.44	1,115,840.07
PT 119+34.58	1,936,995.32	1,116,005.71
POT 121+91.34	1,937,010.60	1,116,262.02

ALIGNMENT COORDINATES PR_CUMBFly		
STATION	NORTHING	EASTING
POT 10+00.00	1,937,353.76	1,113,929.77
PC 11+59.33	1,937,300.68	1,114,080.00
PI 13+73.63	1,937,229.29	1,114,282.06
PT 15+86.30	1,937,116.72	1,114,464.41
PC 18+68.71	1,936,968.36	1,114,704.71
PI 20+67.96	1,936,863.69	1,114,874.26
PT 22+55.60	1,936,871.00	1,115,073.38
PC 29+49.62	1,936,896.45	1,115,766.93
PI 30+56.43	1,936,900.37	1,115,873.66
PT 31+63.17	1,936,910.28	1,115,980.01
POT 38+25.86	1,936,971.74	1,116,639.84

ALIGNMENT COORDINATES PR_EB190CD		
STATION	NORTHING	EASTING
POT 300+00.00	1,936,931.27	1,115,233.92
PC 304+93.71	1,936,929.60	1,115,727.62
PI 306+20.15	1,936,929.17	1,115,854.07
PT 307+46.52	1,936,936.70	1,115,980.29
POT 310+55.18	1,936,955.07	1,116,288.41

ALIGNMENT COORDINATES PR_EBCD		
STATION	NORTHING	EASTING
POT 500+00.00	1,936,952.67	1,115,979.34
PC 503+54.37	1,936,973.77	1,116,333.08
PI 503+95.35	1,936,976.20	1,116,373.99
PT 504+36.33	1,936,979.22	1,116,414.86
PI 512+87.74	1,937,041.82	1,117,263.97
PC 517+07.80	1,937,078.57	1,117,682.41
PI 517+87.79	1,937,085.57	1,117,762.10
PT 518+67.78	1,937,090.97	1,117,841.91
PC 522+57.46	1,937,117.30	1,118,230.70
PI 524+07.27	1,937,127.42	1,118,380.17
PT 525+43.13	1,937,033.64	1,118,497.00
POT 532+52.86	1,936,589.40	1,119,050.50

ALIGNMENT COORDINATES PR_EBJA90		
STATION	NORTHING	EASTING
POT 400+00.00	1,937,372.62	1,113,936.43
PC 402+71.19	1,937,282.28	1,114,192.13
PI 403+34.11	1,937,261.32	1,114,251.46
PT 403+96.95	1,937,245.67	1,114,312.40
PC 407+15.68	1,937,166.41	1,114,621.13
PI 408+65.97	1,937,129.04	1,114,766.69
PT 410+16.16	1,937,100.44	1,114,914.23



EBJA90 CURVE DATA:

PROP. CURVE PR_EBJA90-1
PI STA. = 403+34.11
Δ = 5° 03' 36" (LT)
D = 4° 01' 25"
R = 1,424.00'
T = 62.92'
L = 125.76'
E = 1.39'
e = 3.00%
T.R. = 26'
S.E. RUN = 52'
P.C. STA = 402+71.19
P.T. STA = 403+96.95
SPEED = 35 MPH

PROP. CURVE PR_EBJA90-2
PI STA. = 408+65.97
Δ = 3° 25' 36" (LT)
D = 1° 08' 26"
R = 5,024.00'
T = 150.28'
L = 300.48'
E = 2.25'
e = NC
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 407+15.68
P.T. STA = 410+16.16
SPEED = 40 MPH

EB CUMBERLAND FLYOVER RAMP CURVE DATA:

PROP. CURVE CUMBFly-01
PI STA. = 13+73.63
Δ = 12° 13' 54" (RT)
D = 2° 51' 53"
R = 2,000.00'
T = 214.30'
L = 426.97'
E = 11.45'
e = 2.00%
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 11+59.33
P.T. STA = 15+86.30
SPEED = 30 MPH

PROP. CURVE CUMBFly-02
PI STA. = 20+67.96
Δ = 33° 47' 31" (LT)
D = 8° 44' 03"
R = 656.00'
T = 199.26'
L = 386.90'
E = 29.59'
e = 6.00%
T.R. = 53'
S.E. RUN = 158'
P.C. STA = 18+68.71
P.T. STA = 22+55.60
SPEED = 45 MPH

PROP. CURVE CUMBFly-03
PI STA. = 30+56.43
Δ = 3° 13' 12" (LT)
D = 1° 30' 28"
R = 3,800.00'
T = 106.80'
L = 213.55'
E = 1.50'
e = 2.40%
T.R. = 53'
S.E. RUN = 63'
P.C. STA = 29+49.62
P.T. STA = 31+63.17
SPEED = 45 MPH

EB I-190 CURVE DATA:

PROP. CURVE PR_EB190-1
PI STA. = 117+68.67
Δ = 1° 41' 51" (LT)
D = 0° 30' 42"
R = 11,200.00'
T = 165.94'
L = 331.85'
E = 1.23'
e = NC
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 116+02.74
P.T. STA = 119+34.58
SPEED = 55 MPH

EB I-190 CD ROAD CURVE DATA:

PROP. CURVE PR_EB190CD-1
PI STA. = 306+20.15
Δ = 3° 36' 24" (LT)
D = 1° 25' 36"
R = 4,016.00'
T = 126.45'
L = 252.81'
E = 1.99'
e = 3.20%
T.R. = 69'
S.E. RUN = 110'
P.C. STA = 304+93.71
P.T. STA = 307+46.52
SPEED = 55 MPH

EB CD ROAD CURVE DATA:

PROP. CURVE PR_EBCD-1
PI STA. = 503+95.35
Δ = 0° 48' 14" (LT)
D = 0° 58' 51"
R = 5,841.00'
T = 40.98'
L = 81.96'
E = 0.14'
e = NC
T.R. = N/A
S.E. RUN = N/A
P.C. STA = 503+54.37
P.T. STA = 504+36.33
SPEED = 50 MPH

EXISTING I-90:

EXIST. CURVE EX90-1
PI STA. = 3003+69.18
Δ = 13° 16' 35" (LT)
D = 0° 59' 47"
R = 5,750.00'
T = 669.18'
L = 1,332.37'
E = 38.55'
e = 2.40%
T.R. = 123'
S.E. RUN = 56'
P.C. STA. = 2997+00.00
P.T. STA. = 3010+32.37
SPEED = 55 MPH



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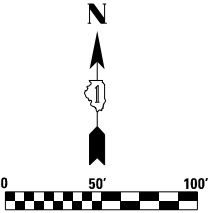
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS
EAST RIVER ROAD

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	23
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

ATB-01



PROP. CURVE PR_EBCD-2	PROP. CURVE PR_EBCD-3
PI STA. = 517+87.79	PI STA. = 524+07.27
$\Delta = 1^\circ 08' 45''$ (RT)	$\Delta = 42^\circ 37' 28''$ (RT)
D = $0^\circ 42' 58''$	D = $14^\circ 55' 15''$
R = 8,000.00'	R = 384.00'
T = 80.00'	T = 149.81'
L = 159.98'	L = 285.67'
E = 0.40'	E = 28.19'
e = NC	e = 6.0%
T.R. = N/A	T.R. = 25'
S.E. RUN = N/A	S.E. RUN = 174'
P.C. STA = 517+07.80	P.C. STA = 522+57.46
P.T. STA = 518+67.78	P.T. STA = 525+43.13
SPEED = 50 MPH	SPEED = 35 MPH

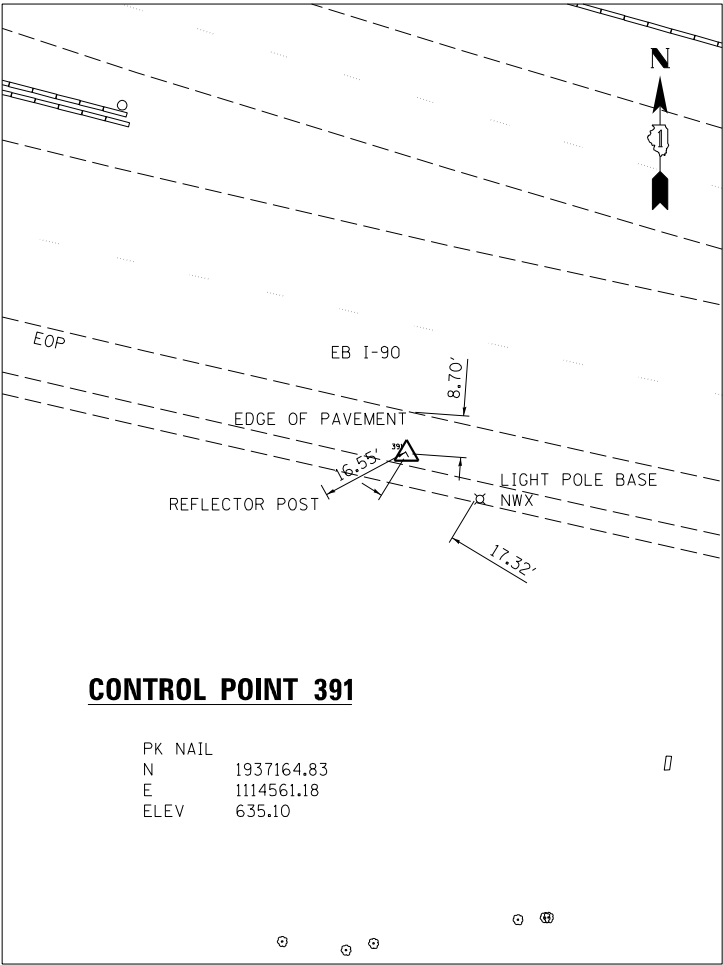
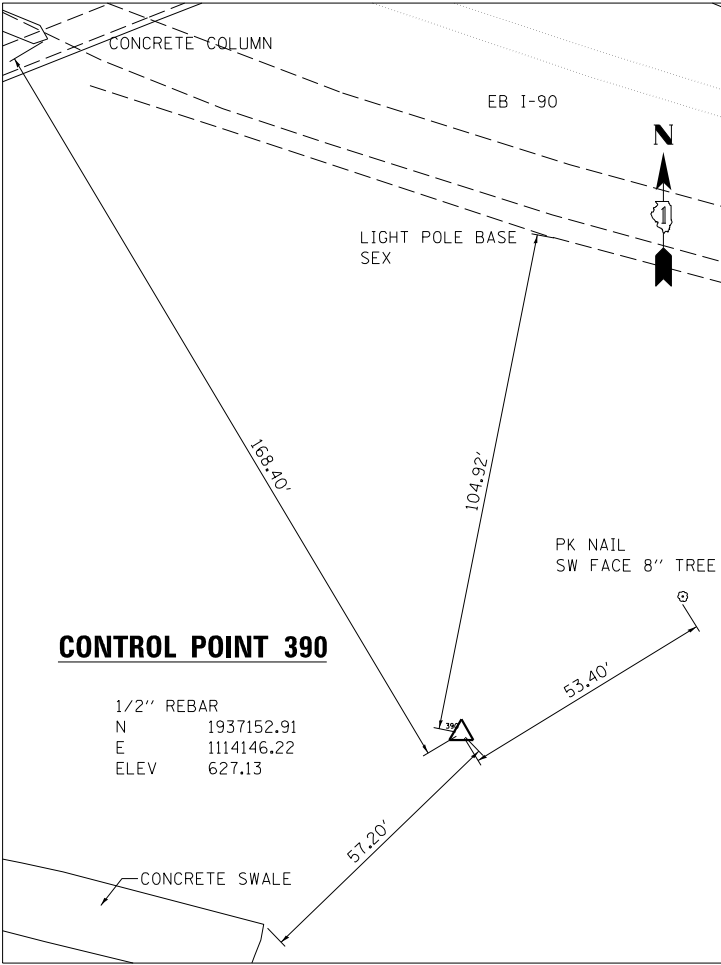
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES & BENCHMARKS EAST RIVER ROAD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	24
		CONTRACT NO. 62A64		
ILLINOIS		FED. AID PROJECT		

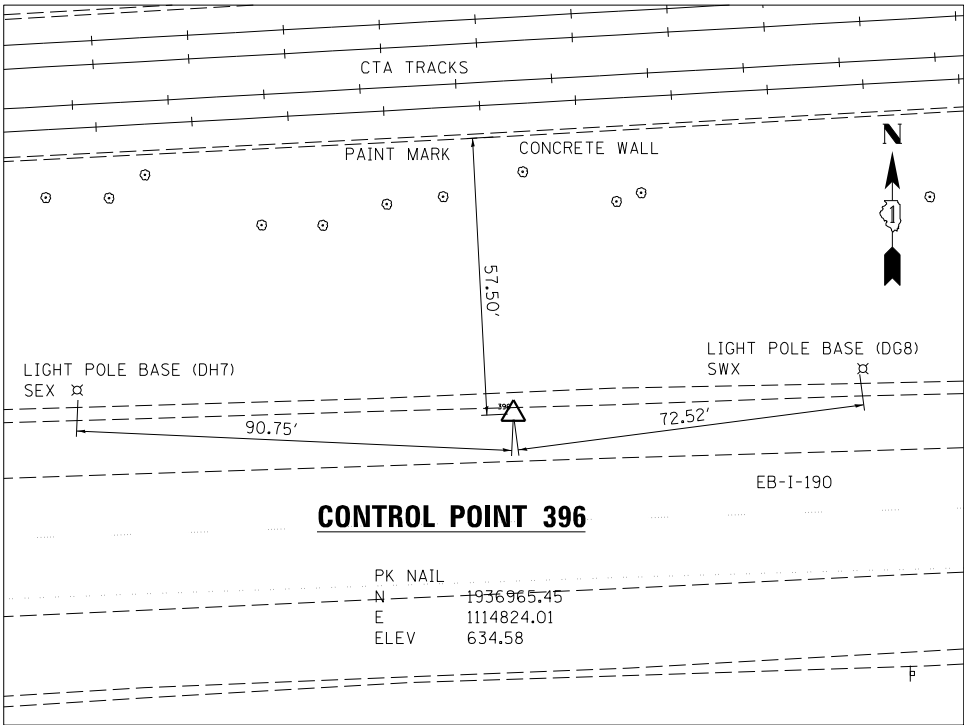
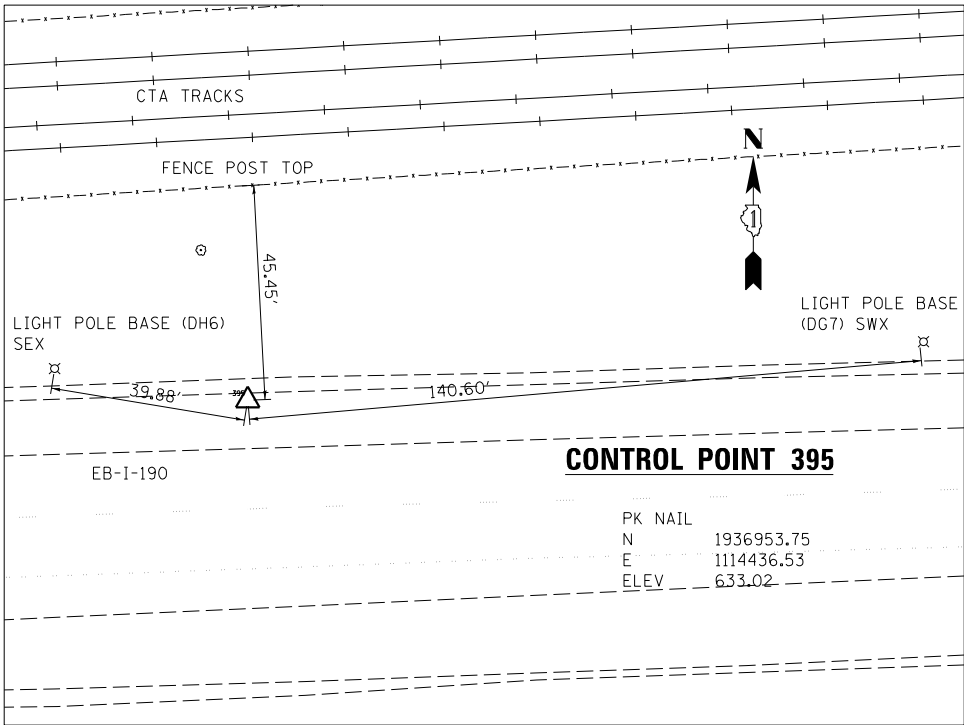
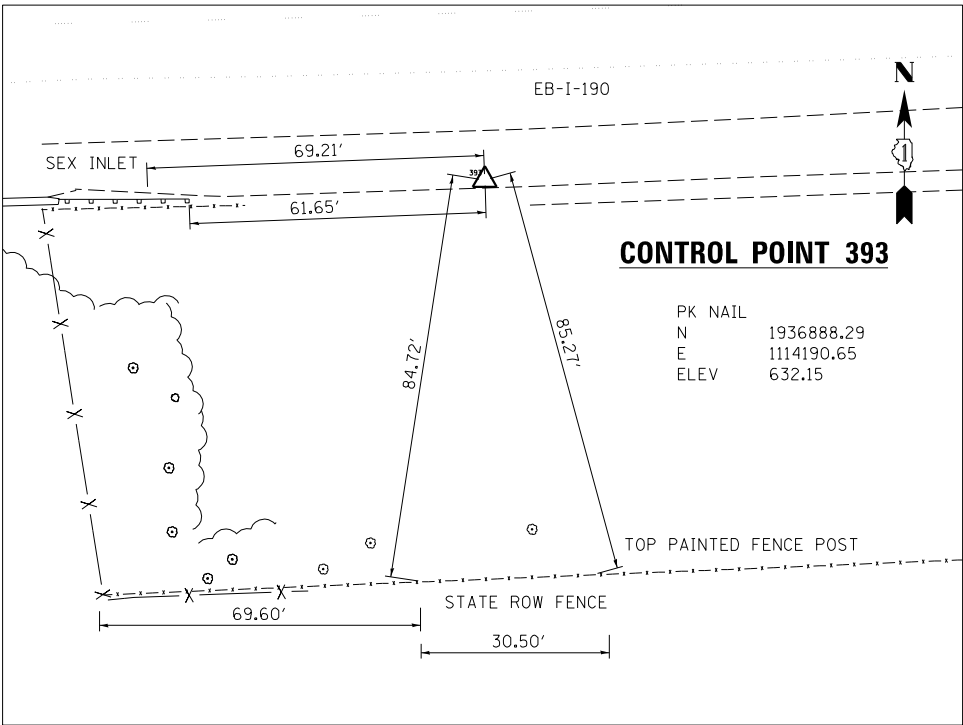
PROJECT

FILE NAME : \\hntb\556\hntb\org\PC\Great Lakes\Documents\Chicago\Projects\30120\1-190_Cumberland\Design\CADD\Contract\62A64\Sheet\01B-03.dgn



TEMPORARY BENCHMARKS: I-190 CUMBERLAND FLYOVER PROJECT AND EAST RIVER ROAD RECONSTRUCTION

	ELEVATION	DESCRIPTION
TBM1C	635.36	FIRE HYDRANT AT ENTRANCE OF O'HARE PLAZA FROM E. RIVER ROAD CHAIN LINK BOLT
TBM4C	634.05	FIRE HYDRANT AT SEX OF E. RIVER ROAD & BRYM MAWR AVENUE CHAIN LINK BOLT
TBM6A	635.04	SQUARE CUT AT E. END OF CONCRETE PIER BASE ON S. SIDE OF I-90
TBM394	634.71	CUT CROSS SEX OF CONCRETE ENCASED MANHOLE
TBMCP1	636.73	CUT CROSS IN MEDIAN ON E. RIVER ROAD NORTH OF I-90 BRIDGE
TBMCP4	636.73	1/2" IRON ROD IN N.B. SHOULDER ON E. RIVER ROAD SOUTH OF I-90 BRIDGE



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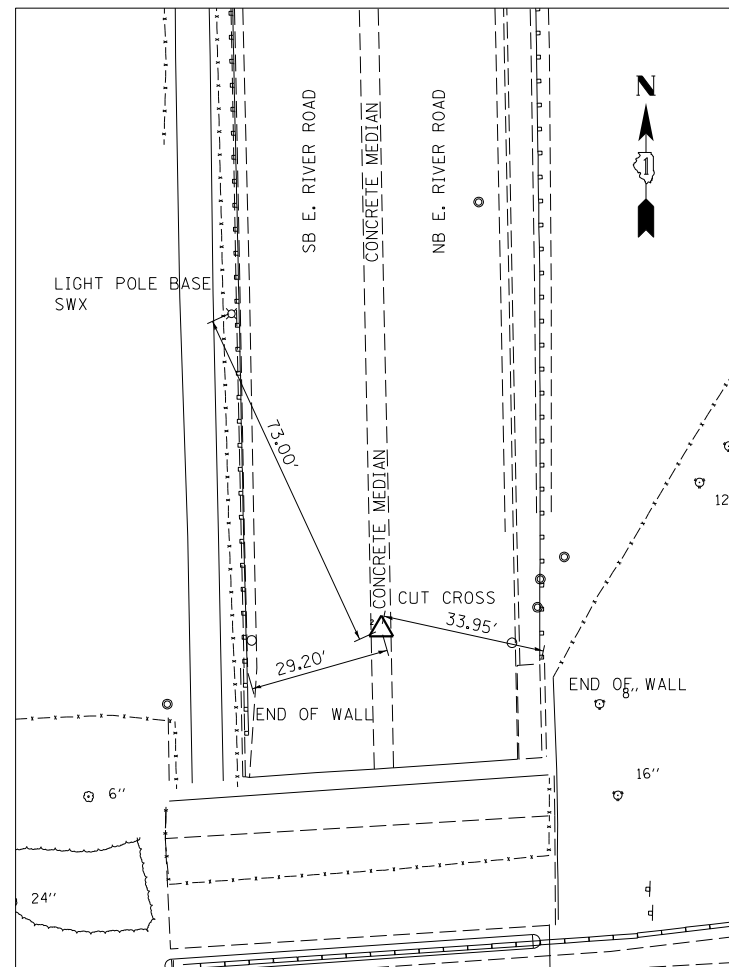
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS
EAST RIVER ROAD

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

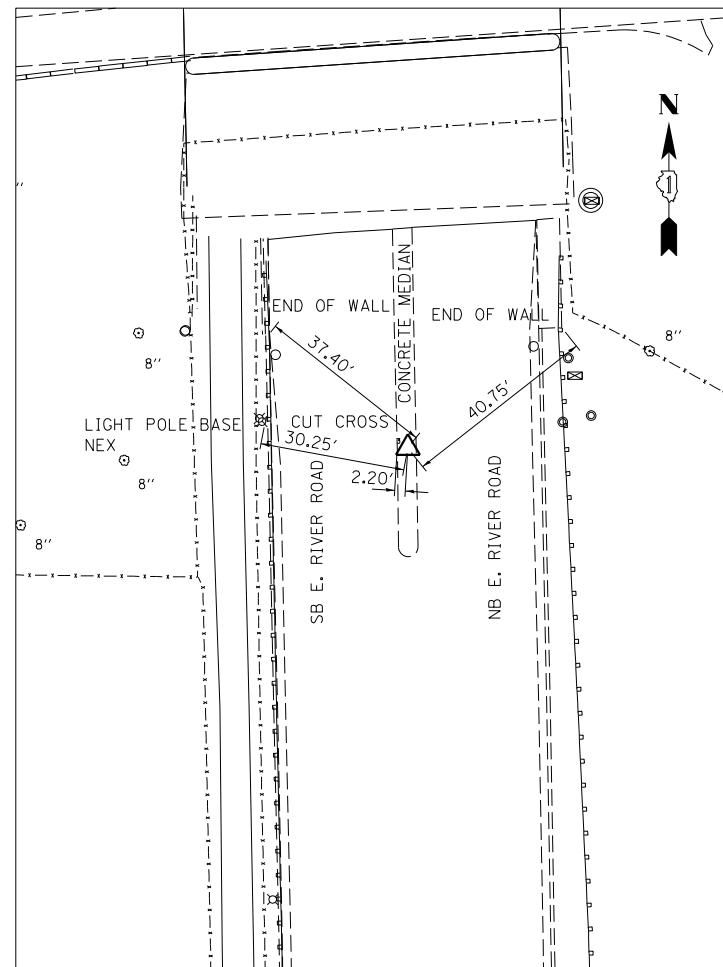
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	25
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

ATB-03



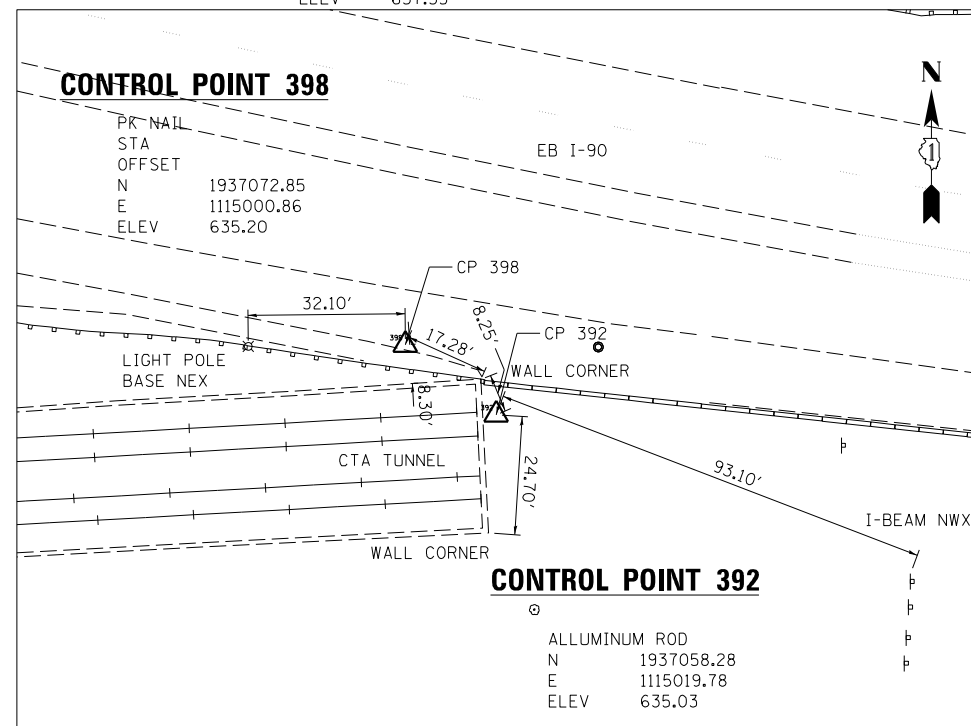
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N	1937254.31
E	1116621.29
ELEV	657.35



CONTROL POINT 3

N	1936914.60
E	1116628.28
ELEV	657.03

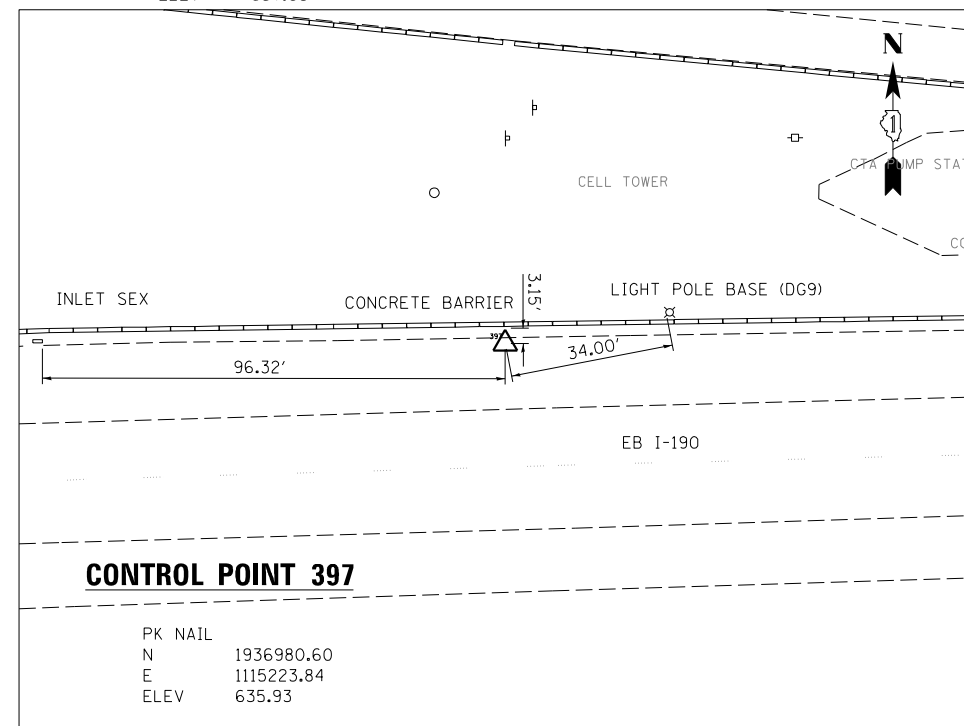


CONTROL POINT 392

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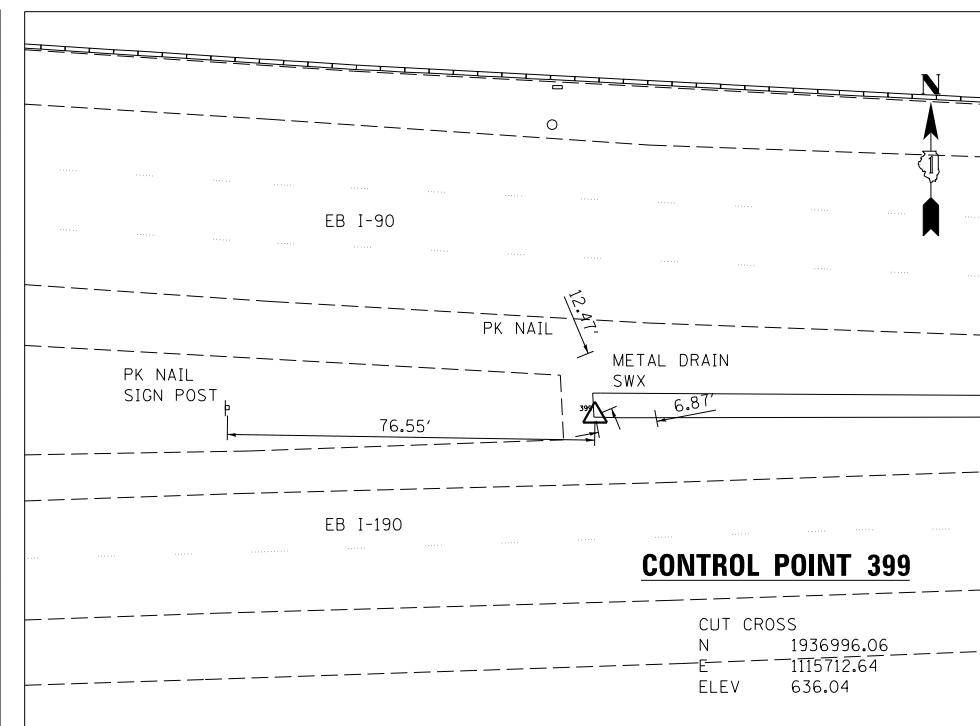
ALLUMINUM ROD
N      1937058.28
E      1115019.78
ELEV   635.03

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CONTROL POINT 397

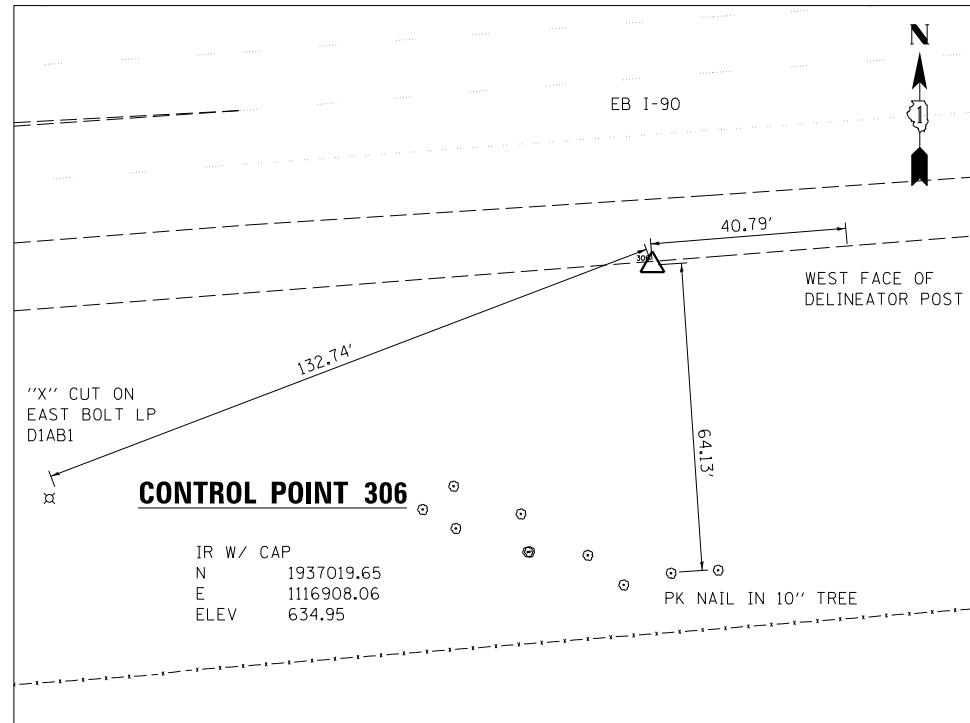
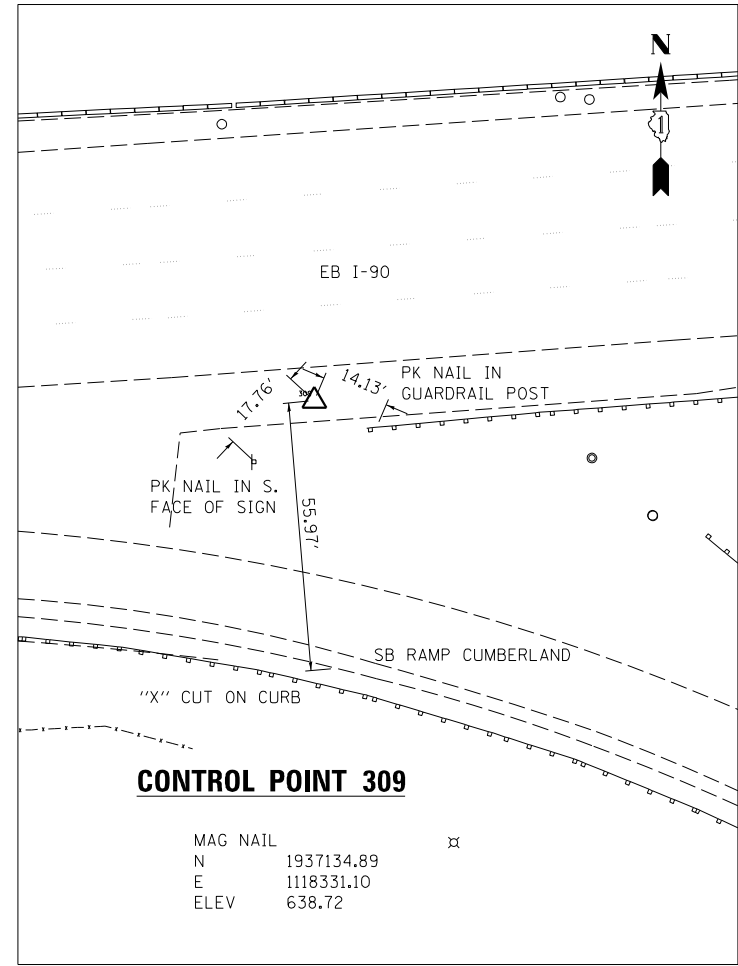
PK NAIL	
N	1936980.60
E	1115223.84
ELEV	635.93



CONTROL POINT 399

CUT CROSS	
N	1936996.06
E	1115712.64
ELEV	636.04

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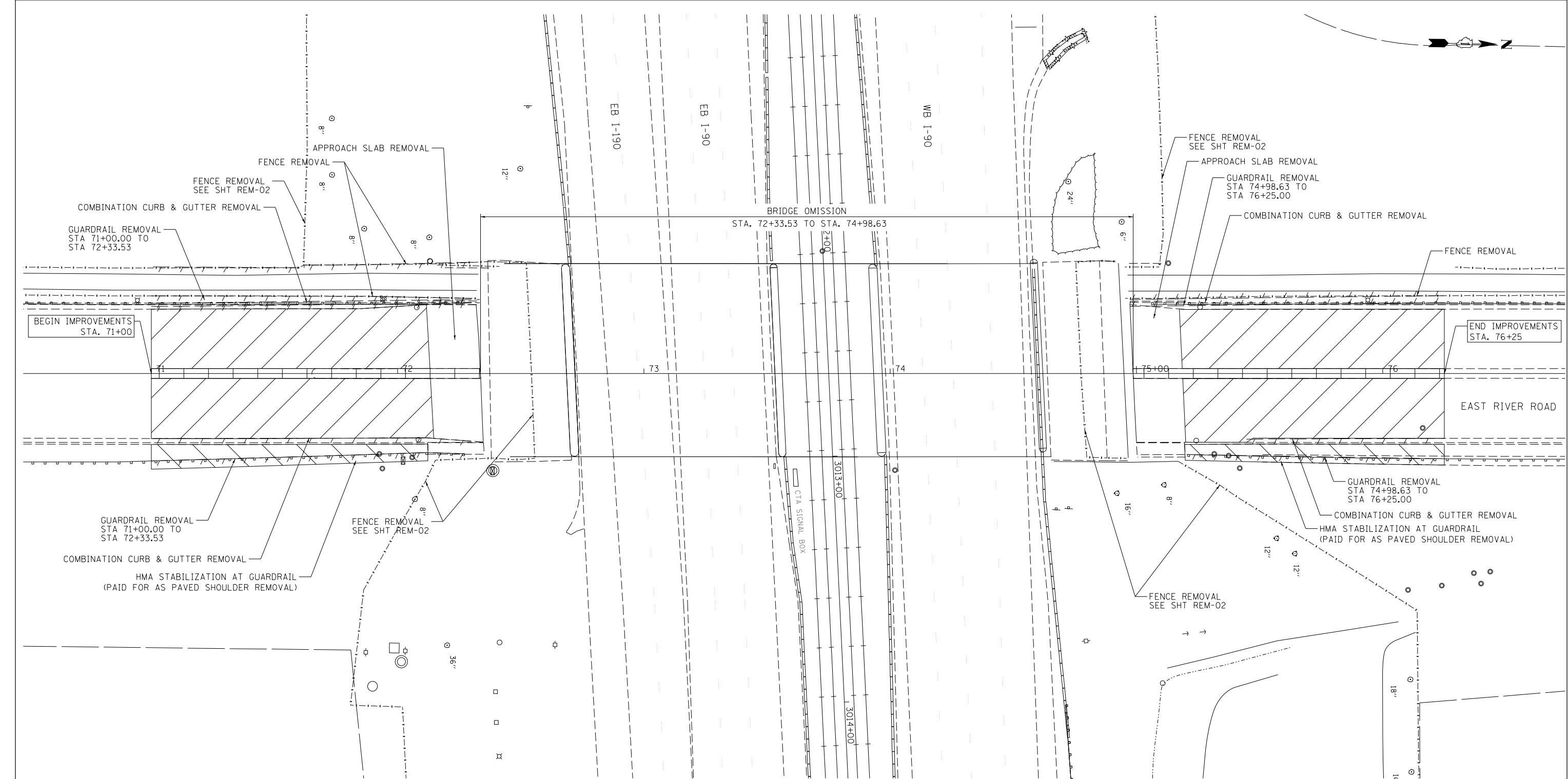
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS
EAST RIVER ROAD

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	27
CONTRACT NO. 62A64				ATB-05
ILLINOIS FED. AID PROJECT				



NOTES

- 1. SEE LIGHTING PLANS, DRAINAGE PLANS AND PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL REMOVALS NOT SHOWN ON THIS PLAN.
- 2. FOR REMOVALS ALONG I-90, SEE DRAWING REM-02.
- 3. FOR TREE REMOVALS, SEE DRAWING REM-02.

REMOVAL LEGEND

PAVEMENT REMOVAL

PAVED SHOULDER REMOVAL

HMA SURFACE REMOVAL, 4"

ITEM REMOVAL

CONCRETE MEDIAN REMOVAL

LINEAR ITEM REMOVAL



FILE NAME : \\hntb-j56\hntb\org\P\Great Lakes\Documents\Chicago Projects\30120 I-190 Cumberland Lakes\Design\CADD\Contract\62A64\CADD_Sheets\0162A64-sht-rem-02.dgn

HNTB

REMOVAL LEGEND



PAVEMENT REMOVAL



PAVED SHOULDER REMOVAL



HMA SURFACE REMOVAL, 2"



ITEM REMOVAL



CONCRETE MEDIAN REMOVAL



LINEAR ITEM REMOVAL

NOTES

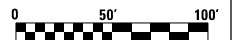
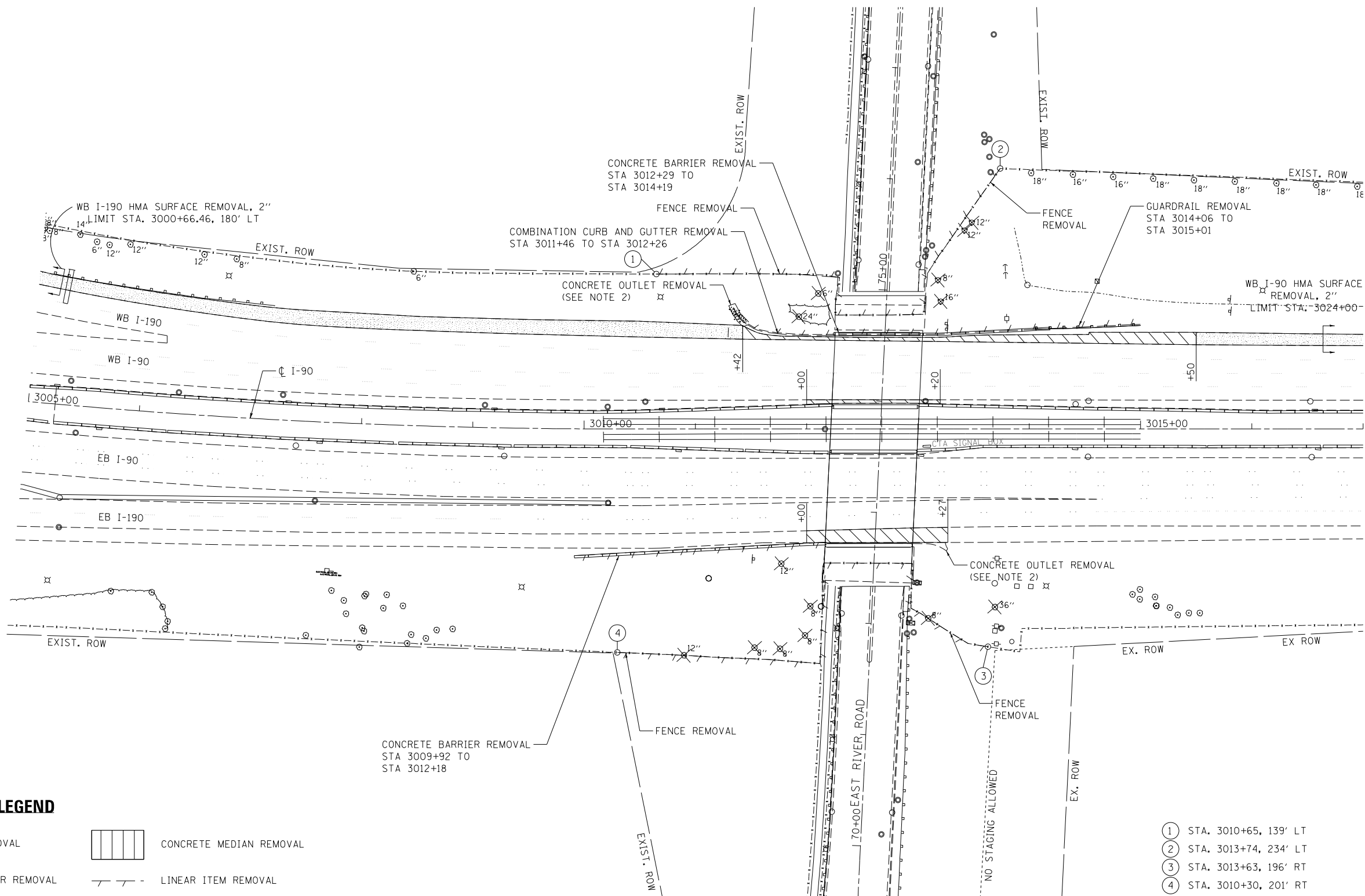
1. SEE LIGHTING PLANS, DRAINAGE PLANS AND PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL REMOVALS NOT SHOWN ON THIS PLAN.
2. CONCRETE OUTLET REMOVAL TO BE PAID FOR AS PAVED SHOULDER REMOVAL.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
I-90**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	29
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

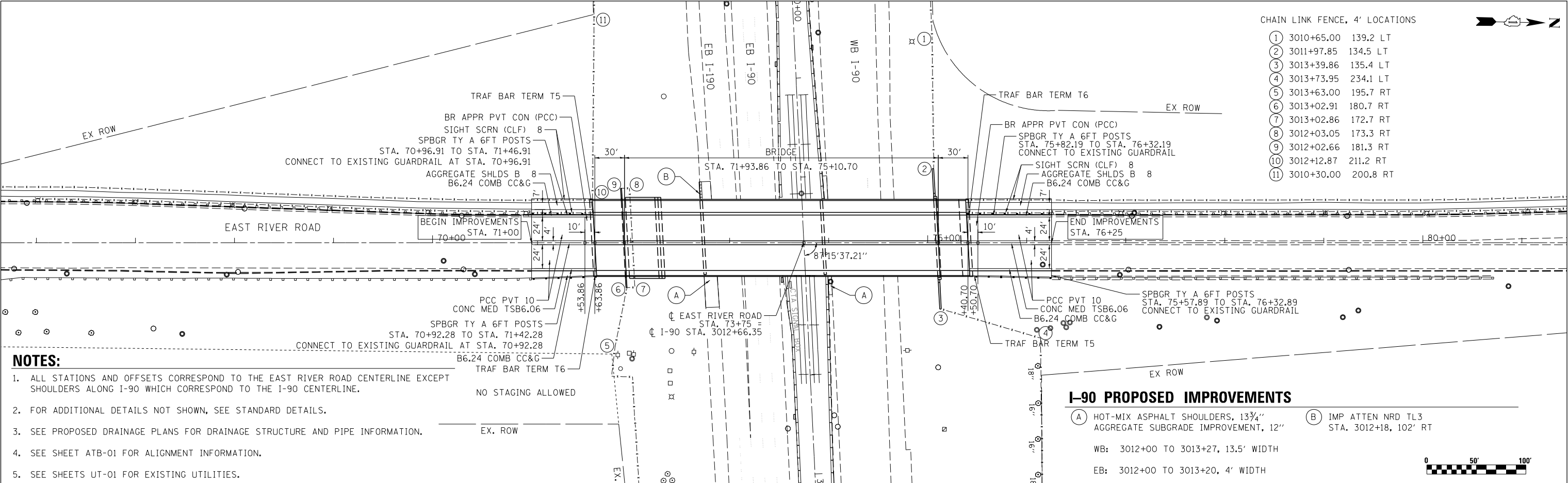


REM-02

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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NOTES:

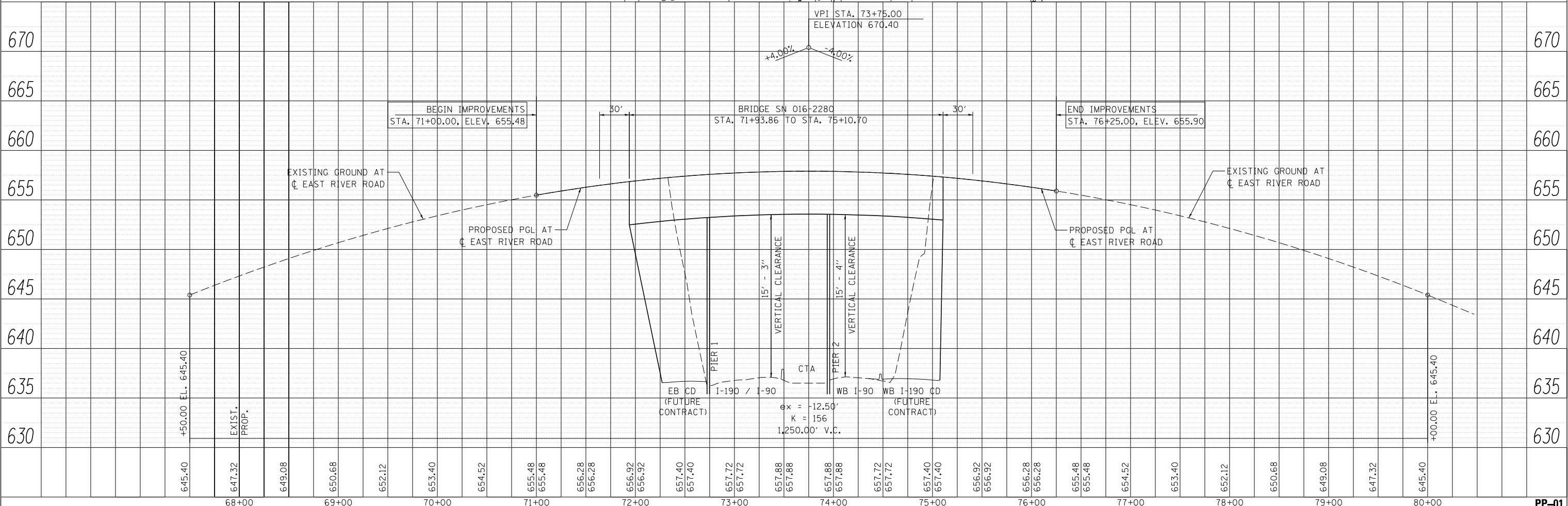
1. ALL STATIONS AND OFFSETS CORRESPOND TO THE EAST RIVER ROAD CENTERLINE EXCEPT SHOULDERS ALONG I-90 WHICH CORRESPOND TO THE I-90 CENTERLINE.
2. FOR ADDITIONAL DETAILS NOT SHOWN, SEE STANDARD DETAILS.
3. SEE PROPOSED DRAINAGE PLANS FOR DRAINAGE STRUCTURE AND PIPE INFORMATION.
4. SEE SHEET ATB-01 FOR ALIGNMENT INFORMATION.
5. SEE SHEETS UT-01 FOR EXISTING UTILITIES.

I-90 PROPOSED IMPROVEMENTS

- (A) HOT-MIX ASPHALT SHOULDERS, 13 3/4" AGGREGATE SUBGRADE IMPROVEMENT, 12" (B) IMP ATTN NRD TL3 STA. 3012+18, 102' RT

WB: 3012+00 TO 3013+27, 13.5' WIDTH

EB: 3012+00 TO 3013+20, 4' WIDTH



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	DRAWN - MMK/LLS	REVISED -
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PLOT DATE = 7/15/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PLAN AND PROFILE
EAST RIVER ROAD

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 71+00 TO STA. 76+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	30
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

PP-01

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. SIGN TEXT AND COLOR SHALL BE PER MUTCD UNLESS OTHERWISE SPECIFIED.
2. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY MARKINGS SHALL BE REMOVED AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "WORK ZONE PAVEMENT MARKING REMOVAL" FOR TEMPORARY PAVEMENT MARKINGS AND "PAVEMENT MARKING REMOVAL" FOR PERMANENT PAVEMENT MARKINGS. IN ADDITION, THE CRYSTALS IN THE EXISTING RAISED REFLECTIVE MARKERS SHALL BE REMOVED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "RAISED REFLECTIVE PAVEMENT MARKER REMOVAL."
3. ALL TEMPORARY LANES SHALL BE AT A MINIMUM OF 11' WIDE UNLESS OTHERWISE NOTED.
4. ALONG RAMP GORES, WET REFLECTIVE PAVEMENT MARKING TAPE, TYPE III 8" MAY CONSIST OF TWO SEPARATE 4" STRIPS OF WET REFLECTIVE PAVEMENT MARKING TAPE, TYPE III 4".
5. THE WORK REQUIRED TO COMPLY WITH THE MAINTENANCE OF TRAFFIC GENERAL NOTES SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS), EXCEPT FOR PAY ITEMS WHICH HAVE BEEN ESTABLISHED IN THE CONTRACT AND ARE SHOWN ON THE PLANS.
6. ALL TRAFFIC CONTROL SIGNS AND DEVICES, WORK ZONE PAVEMENT MARKING, TEMPORARY CONCRETE BARRIERS AND ATTENUATORS NECESSARY FOR THE MAINTENANCE OF TRAFFIC, AS SHOWN ON THE PLANS, SHALL BE IN PLACE BEFORE THE START OF ANY CONSTRUCTION STAGE.
7. WET REFLECTIVE TEMPORARY TAPE, TYPE III SHALL BE USED ON THE FINAL WEARING SURFACE OR ON THE EXISTING PAVEMENT TO REMAIN.
8. ALL CONSTRUCTION WARNING SIGNS SHALL BE BLACK LEGEND ON ORANGE BACKGROUND. ALL CONSTRUCTION WARNING SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE SHOWN ON THE PLANS.
9. ALL "ROAD CONSTRUCTION AHEAD" WARNING SIGNS SHALL BE EQUIPPED WITH A TYPE B MONO-DIRECTIONAL FLASHING LIGHT.
10. ADDITIONAL TEMPORARY TRAFFIC BARRIER OPENINGS SHALL BE RESTRICTED TO LOCATIONS ADJACENT TO SINGLE LANE TRAFFIC. THE APPROVAL OF THE ENGINEER WILL BE REQUIRED FOR ALL TEMPORARY TRAFFIC BARRIER WALL OPENINGS NOT SHOWN ON THE PLANS. THE APPROACH END OF TEMPORARY TRAFFIC BARRIER SHALL BE PROTECTED WITH AN NCHRP 350 APPROVED END TREATMENT. THE WORK REQUIRED TO PROVIDE ADDITIONAL TEMPORARY TRAFFIC BARRIER OPENINGS FOR CONTRACTOR'S ACCESS TO WORK AREAS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL PROTECTION (SPECIAL). SEE TC-18 FOR SIGNING DETIALS FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS.
11. THE CONTRACTOR SHALL CONTACT THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
12. THE CONTRACTOR SHALL PLACE CHANGEABLE MESSAGE SIGNS TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE LOCATION SHALL BE AS DIRECTED BY THE ENGINEER. THE MESSAGE SIGN SHALL BE IN PLACE TWO WEEKS PRIOR TO START OF CONSTRUCTION ACTIVITIES. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH FOR "CHANGEABLE MESSAGE SIGN".
13. BARRIER WALL MARKERS SHALL BE INSTALLED ON BOTH THE FACE OF THE TEMPORARY CONCRETE BARRIER WALL NEXT TO TRAFFIC, AND THE TOP OF SECTIONS OF THE TEMPORARY CONCRETE BARRIER WALL AS SHOWN IN STANDARD 704001. THE COLOR OF THESE REFLECTORS SHALL MATCH THE COLOR OF THE EDGELINES (YELLOW ON THE LEFT AND CRYSTAL OR WHITE ON THE RIGHT). IF THE BASE OF THE TEMPORARY CONCRETE BARRIER WALL IS 12 INCHES OR LESS FROM THE TRAVEL LANE, THEN THE LOWER SLOPE OF THE WALL SHALL ALSO HAVE A 6 INCH WIDE TEMPORARY PAVEMENT MARKING EDGELINE (YELLOW ON THE LEFT AND WHITE ON THE RIGHT). TEMPORARY PAVEMENT MARKING ON THE LOWER SLOPE OF THE TEMPORARY CONCRETE BARRIER WALL WILL BE MEASURED AND PAID FOR AS TEMPORARY PAVEMENT MARKING 6".
14. TRAFFIC CONTROL AND PROTECTION SHALL BE SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARD OR DISTRICT DETAIL FOR THE PROPOSED WORK. WORKERS SIGN SHALL BE USED ONLY WHEN WORKERS ARE PRESENT. FLAGGER SIGN SHALL BE USED ONLY WHEN FLAGGERS ARE PRESENT.
15. ALL LANES (11' MINIMUM) SHALL BE KEPT OPEN TO TRAFFIC DURING NON-WORKING HOURS AND PEAK TRAFFIC VOLUME HOURS AS SPECIFIED IN THE SPECIAL PROVISIONS.
16. LOCATIONS ARE NOTED IN THE PLANS WHERE TEMPORARY CONCRETE BARRIER WALL SHALL BE ANCHORED TO THE PAVEMENT. WHEN THE TEMPORARY CONCRETE BARRIER IS ANCHORED, BDE SPECIAL PROVISION, TEMPORARY CONCRETE BARRIER (BDE) IS TO BE FOLLOWED.

STAGING SEQUENCE

STAGE 1A
CONSTRUCTION:
1. BEGIN REMOVING THE EAST RIVER ROAD BRIDGE SUPER AND SUB STRUCTURE OVER I-90.
TRAFFIC CONTROL:
1. INSTALL DETOUR SIGNS AS SHOWN ON THE PLANS AND CLOSE EAST RIVER ROAD BRIDGE OVER I-90 TO VEHICULAR AND EQUESTRIAN/PEDESTRIAN/BICYCLE TRAFFIC.
2. INSTALL TEMPORARY GROUND MOUNT SIGNS AS SHOWN ON THE PLANS BEFORE BEGINNING DEMOLITION OF THE BRIDGE.
3. TEMPORARY CLOSURE OF ONE LANE DURING ALLOWABLE LANE CLOSURE HOURS WILL BE PERMITTED ALONG I-90 DURING THIS STAGE FOR PIER REMOVAL. SEE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
4. INSTALL TRAFFIC CONTROL AND PROTECTION AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARDS FOR A FREEWAY/EXPRESSWAY TEMPORARY ONE LANE CLOSURE DURING ALLOWABLE LANE CLOSURE HOURS.
STAGE 1
CONSTRUCTION:
1. CONTINUE REMOVING THE EAST RIVER ROAD BRIDGE SUPER AND SUB STRUCTURE OVER I-90.
2. MILL AND RESURFACE WB I-90 OUTSIDE SHOULDER AND INSTALL TEMPORARY PAVEMENT ON NORTH SIDE OF I-90 AS SHOWN ON THE PLANS.
TRAFFIC CONTROL:
1. MAINTAIN DETOUR SIGNS AS SHOWN ON THE PLANS AND CLOSE EAST RIVER ROAD BRIDGE OVER I-90 TO VEHICULAR AND EQUESTRIAN/PEDESTRIAN/BICYCLE TRAFFIC.
2. TEMPORARY CLOSURE OF ONE LANE DURING ALLOWABLE LANE CLOSURE HOURS WILL BE PERMITTED ALONG I-90 DURING THIS STAGE FOR PIER REMOVAL. SEE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
3. INSTALL TRAFFIC CONTROL AND PROTECTION AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE APPLICABLE HIGHWAY STANDARDS FOR A FREEWAY/EXPRESSWAY TEMPORARY ONE LANE.
4. CLOSURE DURING ALLOWABLE LANE CLOSURE HOURS.

STAGE 2
CONSTRUCTION:
1. CONSTRUCT EAST RIVER ROAD BRIDGE SUB AND SUPER STRUCTURE AS SHOWN ON THE PLANS.
TRAFFIC CONTROL:
1. CLOSE EB I-190 OUTSIDE SHOULDER, REDUCE LANE WIDTHS TO 11' AND SHIFT TWO LANES OF EB I-190 TRAFFIC NORTH AS SHOWN ON THE PLANS.
2. MAINTAIN EXISTING TRAFFIC PATTERN ALONG EB I-90 ADJACENT TO THE WORK AREA.
3. PERMANENTLY CLOSE WB I-90 INSIDE SHOULDER AND INSIDE LANE TO TRAFFIC AND SHIFT FOUR LANES OF WB I-90 NORTH ONTO THE TEMPORARY PAVEMENT AS SHOWN ON THE PLANS.
4. CONTINUE CLOSURE OF EAST RIVER ROAD BRIDGE AND MAINTAIN DETOUR SIGNS AS SHOWN ON THE PLANS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

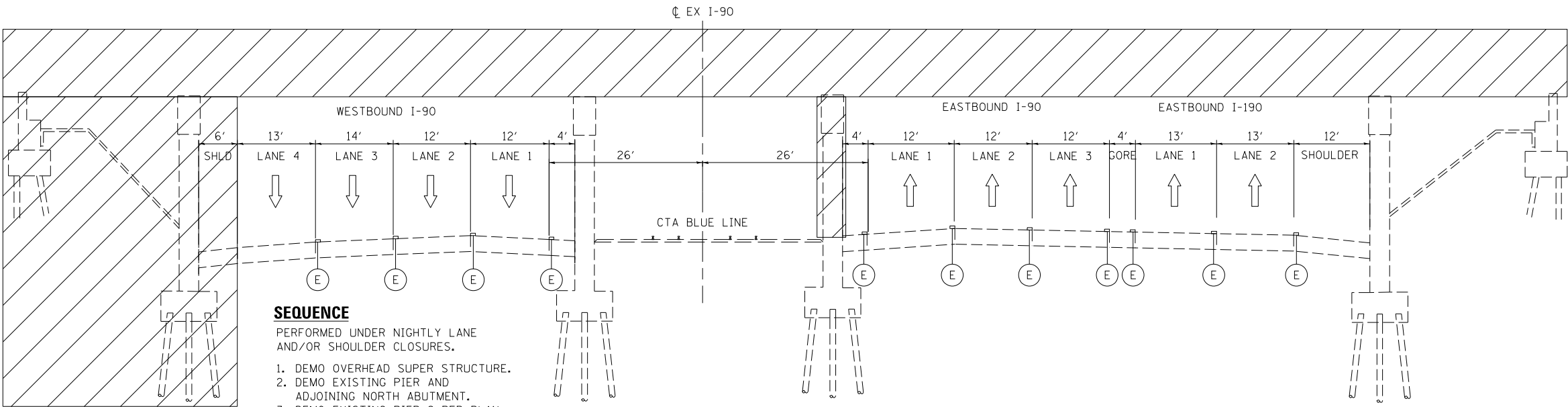
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
GENERAL NOTES AND STAGING SEQUENCE

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	31
		CONTRACT NO. 62A64		
		ILLINOIS	FED. AID PROJECT	

MOT-01

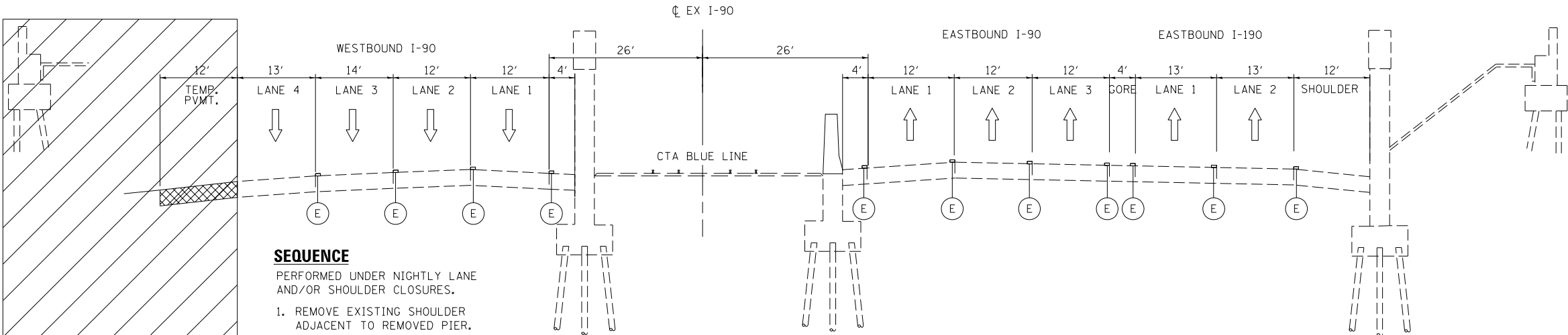
FILE NAME : \\hntb-us56\hntb-us56\mnt\org\P\Grout Lakes\Documents\Chicago Projects\30120 I-190_Cumberland\Design\CADD_Contract\62A64\CADD_Sheets\0162A64-sh1-MOT-02.dgn



SEQUENCE

- PERFORMED UNDER NIGHTLY LANE AND/OR SHOULDER CLOSURES.
1. DEMO OVERHEAD SUPER STRUCTURE.
 2. DEMO EXISTING PIER AND ADJOINING NORTH ABUTMENT.
 3. DEMO EXISTING PIER 2 PER PLAN. (3' REMAINS ABOVE GRADE)

I-90 MOT STAGE 1A TYPICAL SECTION
AT EAST RIVER ROAD

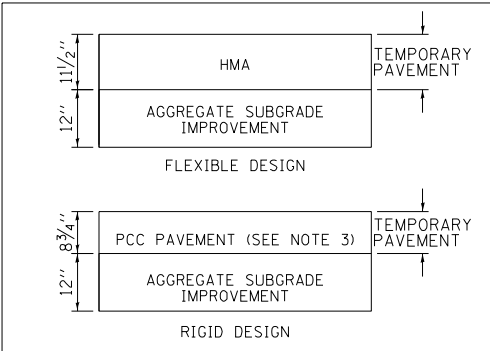


SEQUENCE

- PERFORMED UNDER NIGHTLY LANE AND/OR SHOULDER CLOSURES.
1. REMOVE EXISTING SHOULDER ADJACENT TO REMOVED PIER.
 2. PLACE TEMPORARY PAVEMENT AS SHOWN IN THE PLANS.
 3. CONTINUE ABUTMENT DEMOLITION.

I-90 MOT STAGE 1 TYPICAL SECTION
AT EAST RIVER ROAD

TEMPORARY PAVEMENT DETAIL





















TEMPORARY CONCRETE BARRIER NOTE:

1. LOCATIONS ARE NOTED IN THE PLANS WHERE TEMPORARY CONCRETE BARRIER WALL SHALL BE ANCHORED TO THE PAVEMENT. WHEN THE TEMPORARY CONCRETE BARRIER IS ANCHORED, BDE SPECIAL PROVISION, TEMPORARY CONCRETE BARRIER (BDE) IS TO BE FOLLOWED.

TEMPORARY PAVEMENT NOTES:

1. TEMPORARY PAVEMENT SHALL BE DEFINED AS PORTLAND CEMENT CONCRETE OR HMA PAVEMENT.
2. TEMPORARY PAVEMENT WILL NOT BE REMOVED UNLESS DIRECTED BY THE ENGINEER IN THE FIELD.
3. IF CONTRACTOR CHOOSES TO USE PCC TEMPORARY PAVEMENT, THE PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATION.

MAINTENANCE OF TRAFFIC LEGEND

- | | | |
|--|--|---|
|  TEMPORARY PAVEMENT |  PVT MRK - LINE 5" WHITE |  PVT MRK - LINE 8" WHITE |
|  TEMPORARY CONCRETE BARRIER |  PVT MRK - LINE 4" YELLOW |  PVT MRK - LINE 5" WHITE (10' DASH - 30' SKIP) |
|  TYPE II BARRICADE OR DRUM W/ TYPE C STEADY BURN MONO-DIRECTIONAL LIGHT |  PVT MRK - LINE 4" WHITE |  PVT MRK - LINE 8" WHITE (3' DASH - 9' SKIP) |
|  DOUBLE VERTICAL PANEL |  PVT MRK - LINE 6" WHITE |  TEMP PVT MRK (SEE GENERAL NOTES SHEET) |
|  TRAFFIC DIRECTION |  PVT MRK - LINE 12" |  WET REF TEM TAPE T3 (SEE GENERAL NOTES SHEET) |
|  WORK ZONE |  PVT MRK - LTRS & SYMB | |
| |  PVT MRK - LINE 24" WHITE | |

HNTB

USER NAME = Isupencheck	DESIGNED - LLS	REVISED -
	DRAWN - JB/LLS	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 7/2/2015	DATE - 03/20/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
TYPICAL SECTIONS**

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

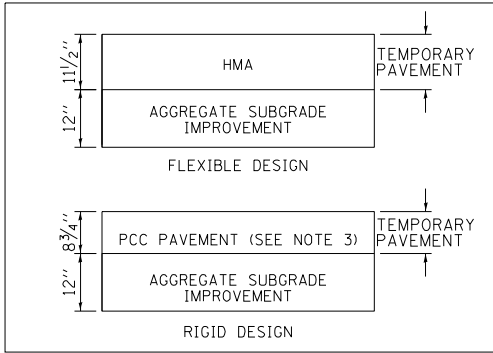
MOT-02

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	32
		CONTRACT NO. 62A64		
ILLINOIS		FED. AID PROJECT		

MOT-02

FILE NAME : I:\mbox55\hntb\org\P\Creat Lakes\Documents\Chicago Projects\30120 I-190 Cumberland\Design\CADD\Contract\62A64\CADD_Sheets\0162A64-sh1-MOT-03.dgn

TEMPORARY PAVEMENT DETAIL



TEMPORARY CONCRETE BARRIER NOTE:

1. LOCATIONS ARE NOTED IN THE PLANS WHERE TEMPORARY CONCRETE BARRIER WALL SHALL BE ANCHORED TO THE PAVEMENT. WHEN THE TEMPORARY CONCRETE BARRIER IS ANCHORED, BDE SPECIAL PROVISION, TEMPORARY CONCRETE BARRIER (BDE) IS TO BE FOLLOWED.

TEMPORARY PAVEMENT NOTES:

1. TEMPORARY PAVEMENT SHALL BE DEFINED AS PORTLAND CEMENT CONCRETE OR HMA PAVEMENT.
2. TEMPORARY PAVEMENT WILL NOT BE REMOVED UNLESS DIRECTED BY THE ENGINEER IN THE FIELD.
3. IF CONTRACTOR CHOOSES TO USE PCC TEMPORARY PAVEMENT, THE PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATION.

MAINTENANCE OF TRAFFIC LEGEND

- TEMPORARY PAVEMENT
- TEMPORARY CONCRETE BARRIER
- TYPE II BARRICADE OR DRUM W/ TYPE C STEADY BURN MONO-DIRECTIONAL LIGHT
- DOUBLE VERTICAL PANEL
- TRAFFIC DIRECTION
- WORK ZONE
- 1 PVT MRK - LINE 5" WHITE
- 2 PVT MRK - LINE 4" YELLOW
- 3 PVT MRK - LINE 4" WHITE
- 4 PVT MRK - LINE 6" WHITE
- 5 PVT MRK - LINE 12"
- 6 PVT MRK - LTRS & SYMB
- 7 PVT MRK - LINE 24" WHITE
- 8 PVT MRK - LINE 8" WHITE
- 9 PVT MRK - LINE 5" WHITE (10' DASH - 30' SKIP)
- 10 PVT MRK - LINE 8" WHITE (3' DASH - 9' SKIP)
- T TEMP PVT MRK (SEE GENERAL NOTES SHEET)
- W WET REF TEM TAPE T3 (SEE GENERAL NOTES SHEET)

HNTB

USER NAME = Isupencheck	DESIGNED - LLS/MM	REVISED -
	DRAWN - JB/LLS	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 7/2/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

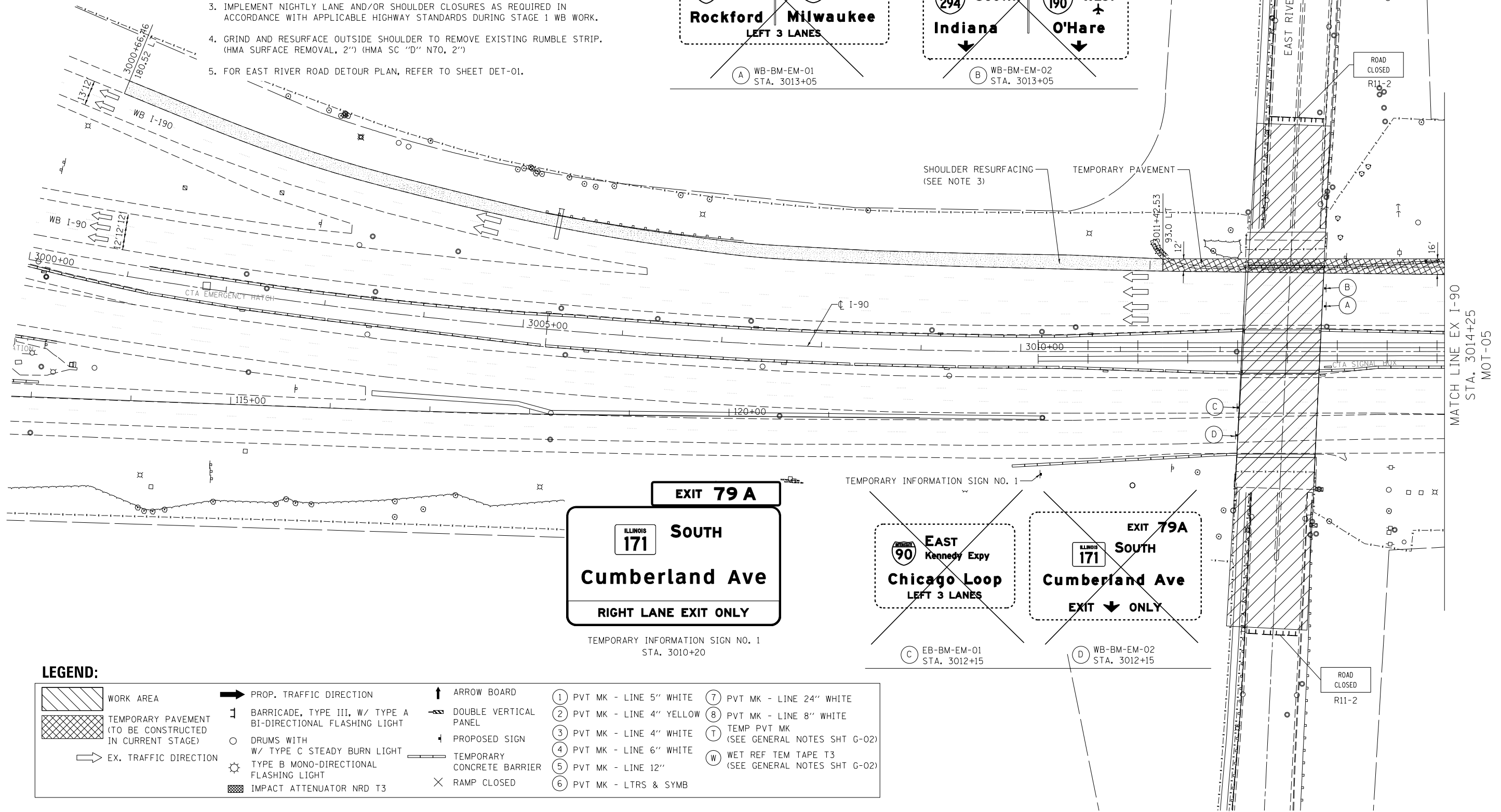
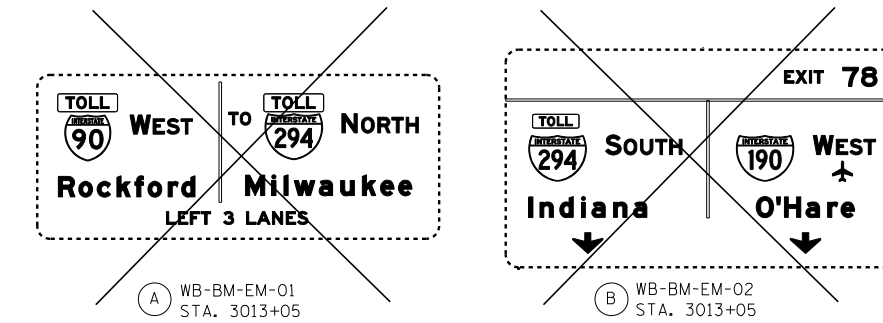
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
TYPICAL SECTIONS
























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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	33
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

MOT-03

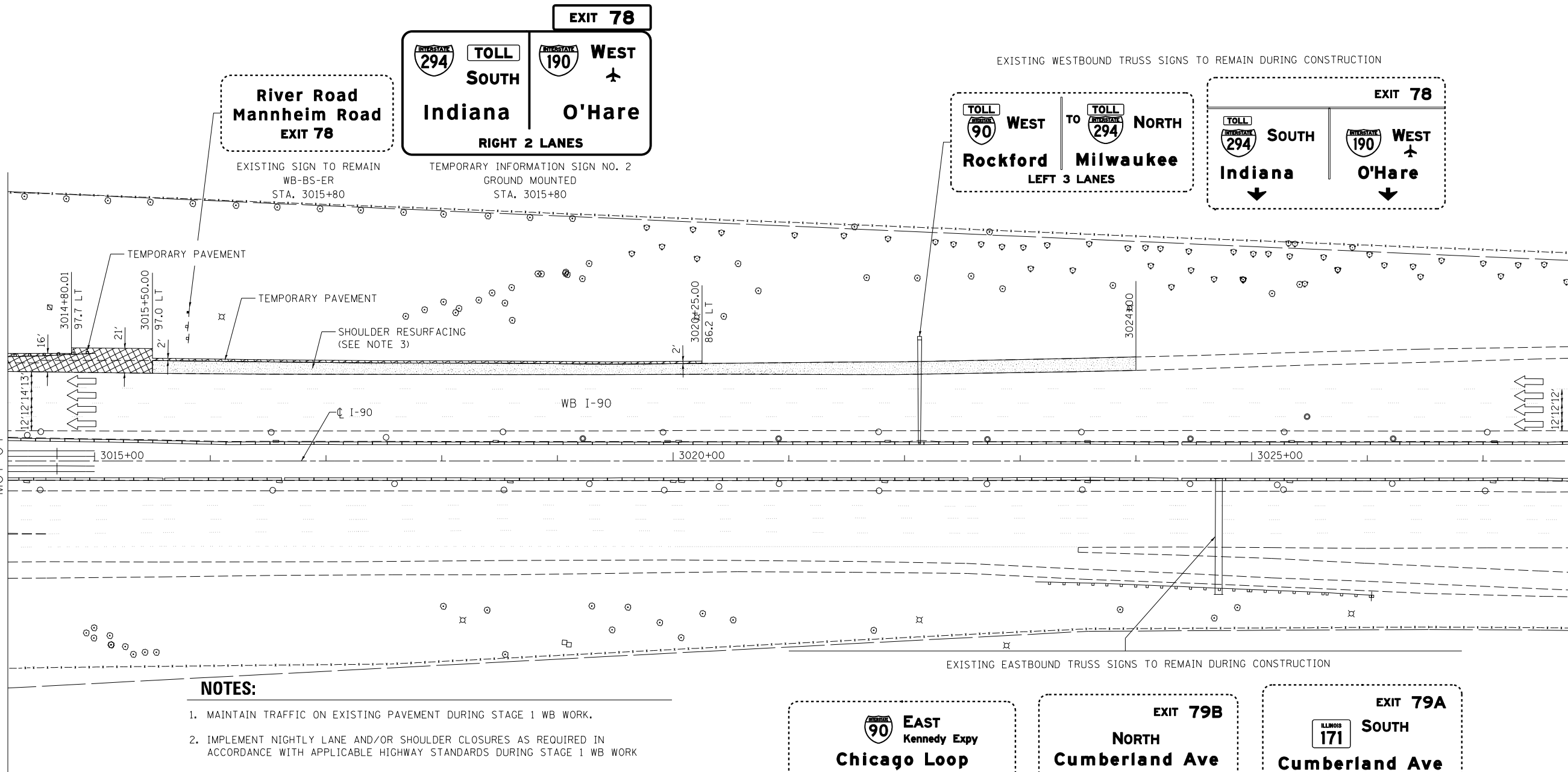
1. INSTALL TEMPORARY INFORMATION SIGNS AND DETOUR SIGNS PRIOR TO CLOSING EAST RIVER ROAD BRIDGE FOR CONSTRUCTION.
2. MAINTAIN TRAFFIC ON EXISTING PAVEMENT DURING STAGE 1 WB WORK.
3. IMPLEMENT NIGHTLY LANE AND/OR SHOULDER CLOSURES AS REQUIRED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARDS DURING STAGE 1 WB WORK.
4. GRIND AND RESURFACE OUTSIDE SHOULDER TO REMOVE EXISTING RUMBLE STRIP. (HMA SURFACE REMOVAL, 2'') (HMA SC "D" NTO, 2'')
5. FOR EAST RIVER ROAD DETOUR PLAN, REFER TO SHEET DET-01.



LEGEND:									
	WORK AREA		PROP. TRAFFIC DIRECTION		ARROW BOARD		PVT MK - LINE 5" WHITE		PVT MK - LINE 24" WHITE
	TEMPORARY PAVEMENT (TO BE CONSTRUCTED IN CURRENT STAGE)		BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT		DOUBLE VERTICAL PANEL		PVT MK - LINE 4" YELLOW		PVT MK - LINE 8" WHITE
	EX. TRAFFIC DIRECTION		DRUMS WITH W/ TYPE C STEADY BURN LIGHT		PROPOSED SIGN		PVT MK - LINE 4" WHITE		TEMP PVT MK (SEE GENERAL NOTES SHT G-02)
			TYPE B MONO-DIRECTIONAL FLASHING LIGHT		TEMPORARY CONCRETE BARRIER		PVT MK - LINE 6" WHITE		WET REF TEM TAPE T3 (SEE GENERAL NOTES SHT G-02)
			IMPACT ATTENUATOR NRD T3		RAMP CLOSED		PVT MK - LINE 12"		
							PVT MK - LTRS & SYMB		



MATCH LINE EX I-90
STA. 3014+25
MOT-04



NOTES:

1. MAINTAIN TRAFFIC ON EXISTING PAVEMENT DURING STAGE 1 WB WORK.
2. IMPLEMENT NIGHTLY LANE AND/OR SHOULDER CLOSURES AS REQUIRED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARDS DURING STAGE 1 WB WORK
3. GRIND AND RESURFACE OUTSIDE SHOULDER TO REMOVE EXISTING RUMBLE STRIP. (HMA SURFACE REMOVAL, 2") (HMA SC "D" N70, 2")
4. FOR EAST RIVER ROAD DETOUR PLAN, REFER TO SHEET DET-01

LEGEND:

	WORK AREA		PROP. TRAFFIC DIRECTION		ARROW BOARD	①	PVT MK - LINE 5" WHITE	⑦	PVT MK - LINE 24" WHITE
	TEMPORARY PAVEMENT (TO BE CONSTRUCTED IN CURRENT STAGE)		BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT		DOUBLE VERTICAL PANEL	②	PVT MK - LINE 4" YELLOW	⑧	PVT MK - LINE 8" WHITE
	EX. TRAFFIC DIRECTION		DRUMS WITH W/ TYPE C STEADY BURN LIGHT		PROPOSED SIGN	③	PVT MK - LINE 4" WHITE	T	TEMP PVT MK (SEE GENERAL NOTES SHT G-02)
			TYPE B MONO-DIRECTIONAL FLASHING LIGHT		TEMPORARY CONCRETE BARRIER	④	PVT MK - LINE 6" WHITE	W	WET REF TEM TAPE T3 (SEE GENERAL NOTES SHT G-02)
			IMPACT ATTENUATOR NRD T3		RAMP CLOSED	⑤	PVT MK - LINE 12"		
						⑥	PVT MK - LTRS & SYMB		



MOT-05

HNTB

USER NAME = Isupencheck	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000' / 1in.	CHECKED -	REVISED -
PLOT DATE = 3/11/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 1

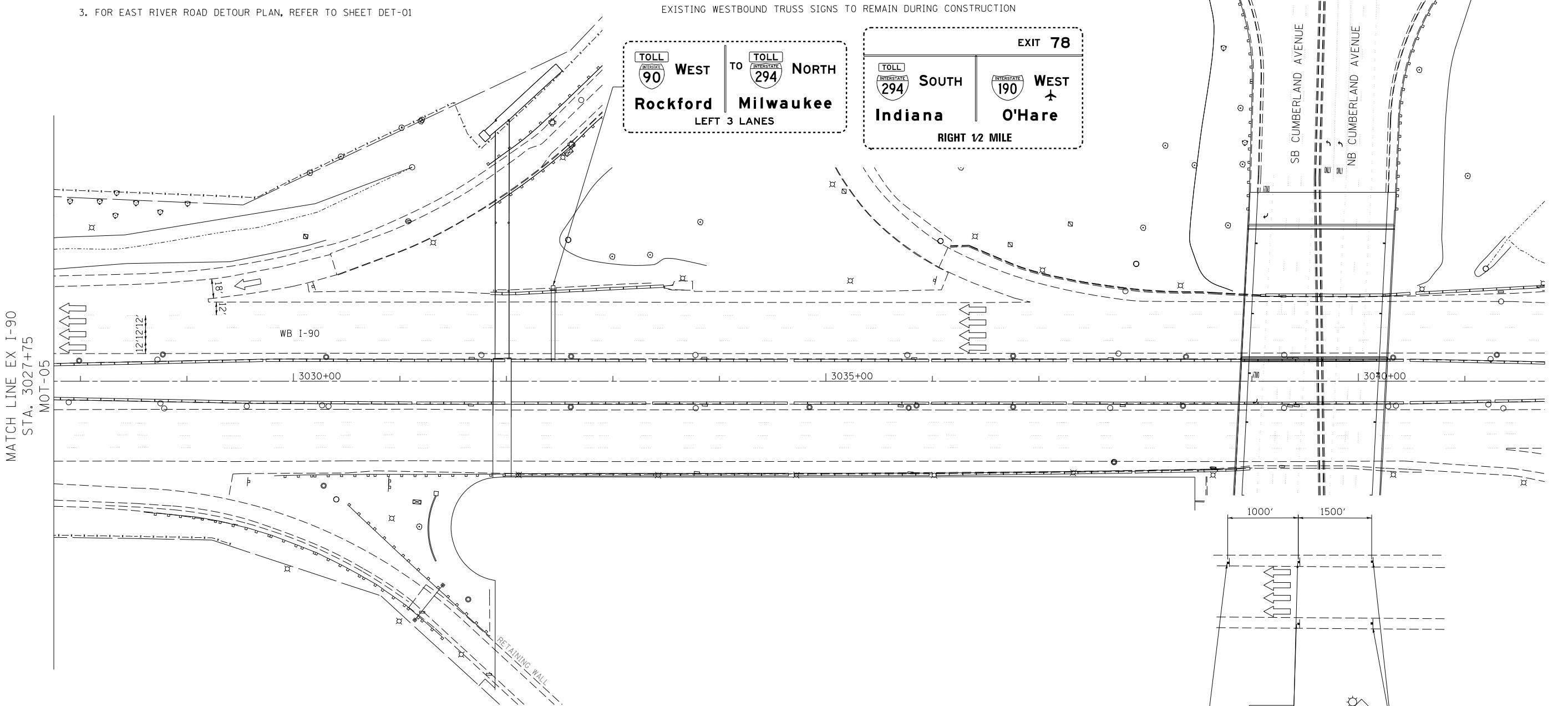
SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 3014+25 TO STA. 3027+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	35
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				






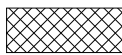

















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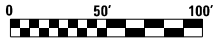
NOTES:

1. MAINTAIN TRAFFIC ON EXISTING PAVEMENT DURING STAGE 1 WB WORK.
2. IMPLEMENT NIGHTLY LANE AND/OR SHOULDER CLOSURES AS REQUIRED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARDS DURING STAGE 1 WB WORK.
3. FOR EAST RIVER ROAD DETOUR PLAN, REFER TO SHEET DET-01



LEGEND:

	WORK AREA		PROP. TRAFFIC DIRECTION		ARROW BOARD		1 PVT MK - LINE 5" WHITE		7 PVT MK - LINE 24" WHITE
	TEMPORARY PAVEMENT (TO BE CONSTRUCTED IN CURRENT STAGE)		BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT		DOUBLE VERTICAL PANEL		2 PVT MK - LINE 4" YELLOW		8 PVT MK - LINE 8" WHITE
	EX. TRAFFIC DIRECTION		DRUMS WITH W/ TYPE C STEADY BURN LIGHT		PROPOSED SIGN		3 PVT MK - LINE 4" WHITE		T TEMP PVT MK (SEE GENERAL NOTES SHT G-02)
	TYPE B MONO-DIRECTIONAL FLASHING LIGHT		TEMPORARY CONCRETE BARRIER		WET REF TEM TAPE T3 (SEE GENERAL NOTES SHT G-02)		4 PVT MK - LINE 6" WHITE		
	IMPACT ATTENUATOR NRD T3		RAMP CLOSED				5 PVT MK - LINE 12"		
							6 PVT MK - LTRS & SYMB		



HNTB

USER NAME = lsupencheck	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 6/29/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 1

SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 3027+75 TO STA. 3042+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	36
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

MOT-06

FILE NAME: \\hntb\556\hntb\org\PI\Create\Documents\Chicago\Projects\30120 I-190 Cumberland\Drawings\CAAD\Contract\62A64\CAAD_Sheets\062A64-sh1-MOT-07.dgn

HNTB

USER NAME = lsupencheck	DESIGNED - LLS/MM	REVISED -
	DRAWN - LLS/MM	REVISED -
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PLOT DATE = 6/29/2015	DATE - 03/20/2015	REVISED -

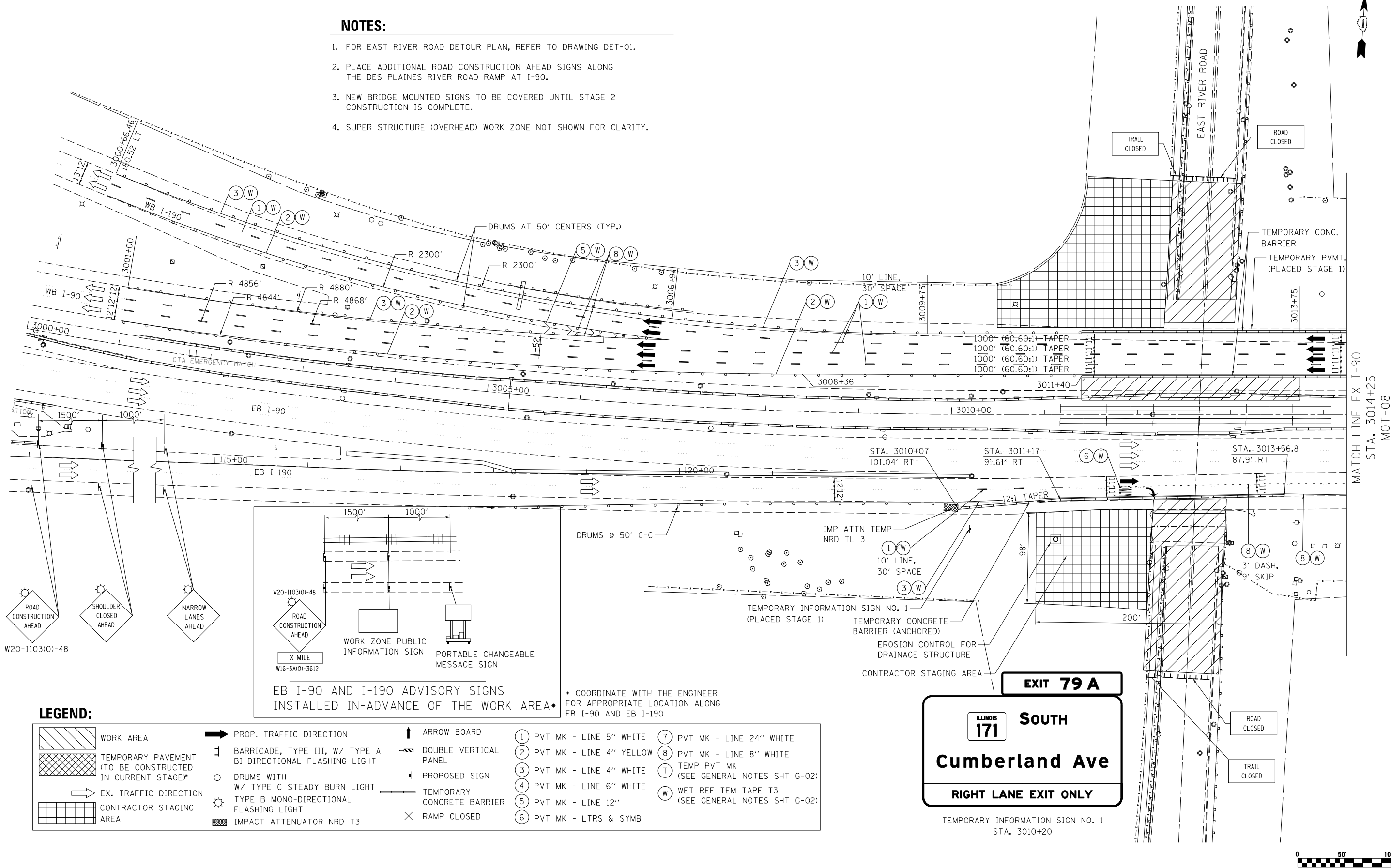
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

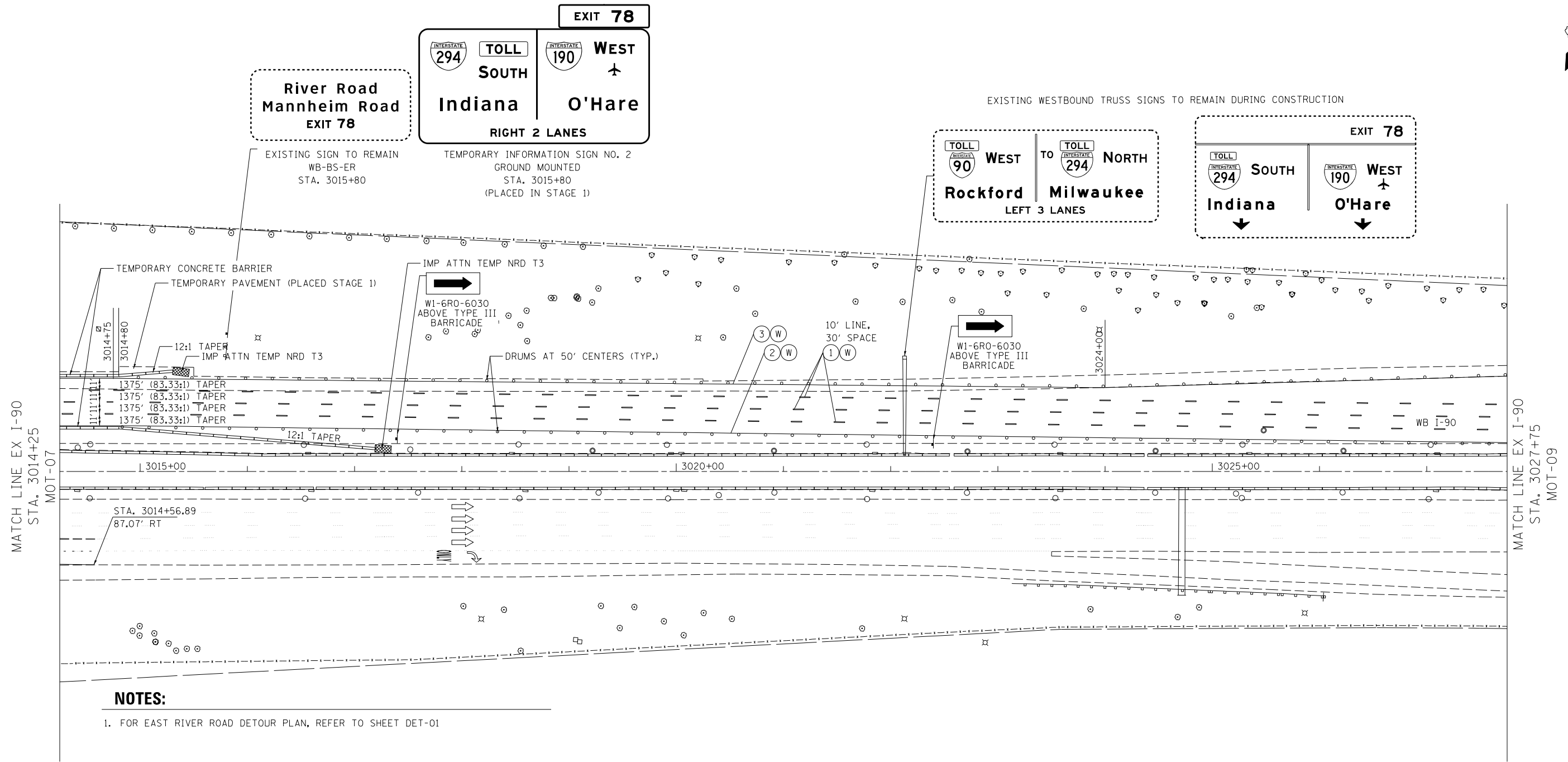
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 2

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. 3000+00 TO STA. 3014+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	37
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

MOT-07



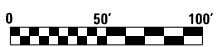


NOTES:

1. FOR EAST RIVER ROAD DETOUR PLAN, REFER TO SHEET DET-01

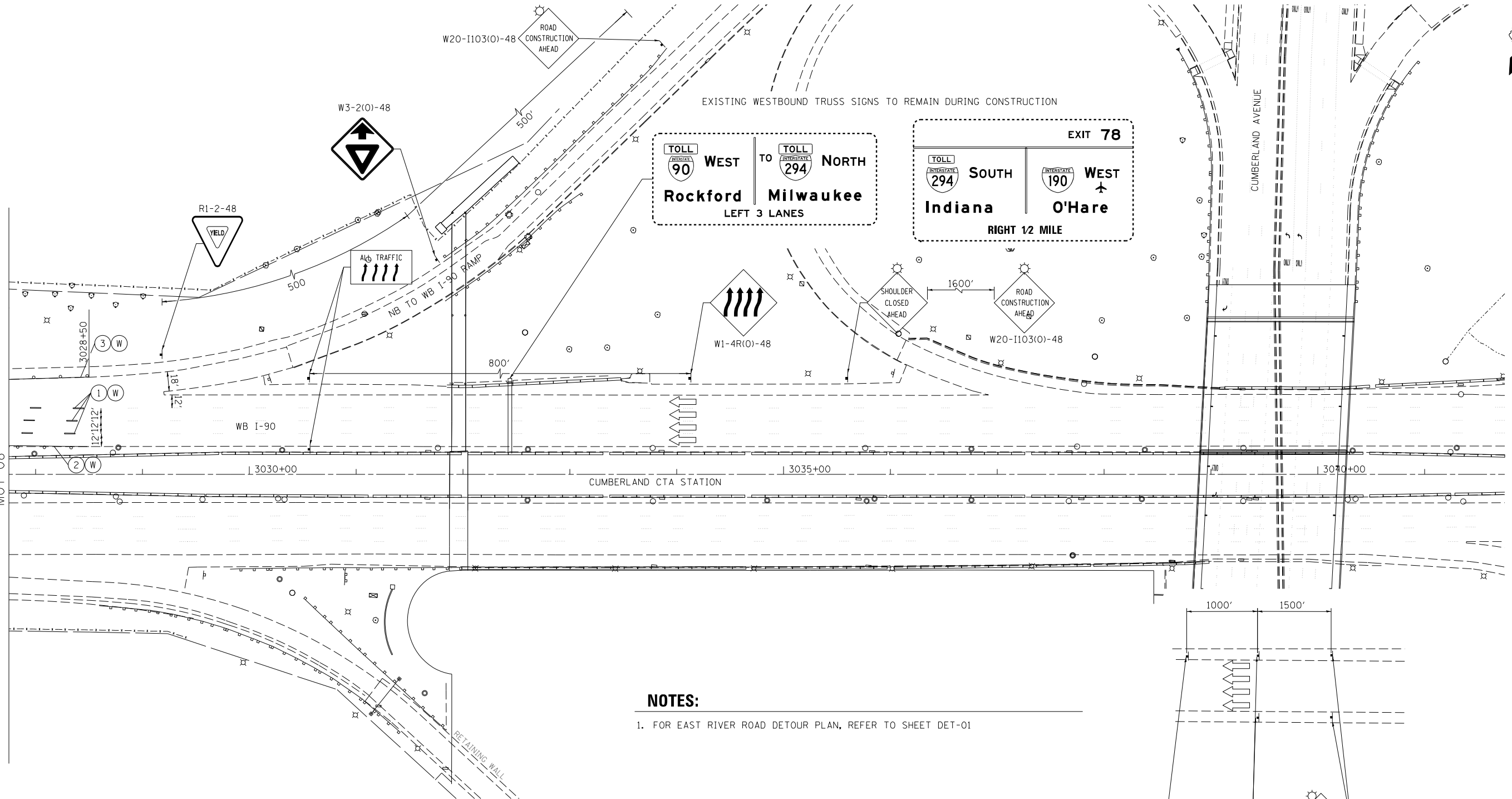
LEGEND:

	WORK AREA		PROP. TRAFFIC DIRECTION		ARROW BOARD	①	PVT MK - LINE 5" WHITE	⑦	PVT MK - LINE 24" WHITE
	TEMPORARY PAVEMENT (TO BE CONSTRUCTED IN CURRENT STAGE)		BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT		DOUBLE VERTICAL PANEL	②	PVT MK - LINE 4" YELLOW	⑧	PVT MK - LINE 8" WHITE
	EX. TRAFFIC DIRECTION		DRUMS WITH W/ TYPE C STEADY BURN LIGHT		PROPOSED SIGN	③	PVT MK - LINE 4" WHITE	⑨	TEMP PVT MK (SEE GENERAL NOTES SHT G-02)
			TYPE B MONO-DIRECTIONAL FLASHING LIGHT		TEMPORARY CONCRETE BARRIER	④	PVT MK - LINE 6" WHITE	⑩	WET REF TEM TAPE T3 (SEE GENERAL NOTES SHT G-02)
			IMPACT ATTENUATOR NRD T3		RAMP CLOSED	⑤	PVT MK - LINE 12"		



FILE NAME: J:\mtdoc\556\mtdoc\p\c\rest\lakes\Documents\Chicago\Projects\30270 1-198 Cumberland\Design\CADD\Contract\62A64\CADD_Sheets\0162A64-sh1-MOT-09.dgn

MATCH LINE EX I-90
STA. 3027+75
MOT-08

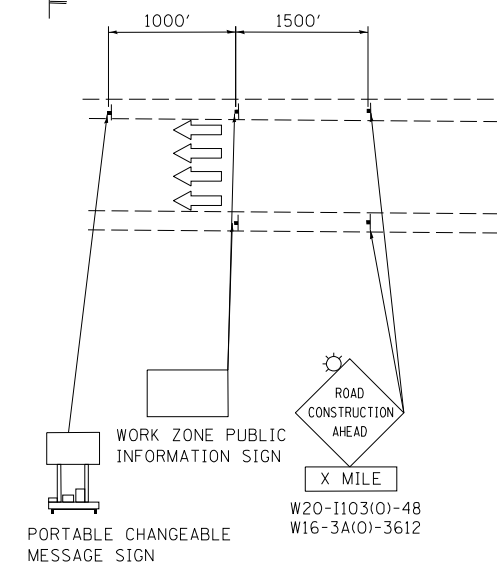


NOTES:

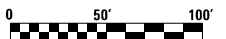
1. FOR EAST RIVER ROAD DETOUR PLAN, REFER TO SHEET DET-01

LEGEND:

	WORK AREA		PROP. TRAFFIC DIRECTION		ARROW BOARD		1 PVT MK - LINE 5" WHITE		7 PVT MK - LINE 24" WHITE
	TEMPORARY PAVEMENT (TO BE CONSTRUCTED IN CURRENT STAGE)		BARRICADE, TYPE III, W/ TYPE A BI-DIRECTIONAL FLASHING LIGHT		DOUBLE VERTICAL PANEL		2 PVT MK - LINE 4" YELLOW		8 PVT MK - LINE 8" WHITE
	EX. TRAFFIC DIRECTION		DRUMS WITH W/ TYPE C STEADY BURN LIGHT		PROPOSED SIGN		3 PVT MK - LINE 4" WHITE		TEMP PVT MK (SEE GENERAL NOTES SHT G-02)
			TYPE B MONO-DIRECTIONAL FLASHING LIGHT		TEMPORARY CONCRETE BARRIER		4 PVT MK - LINE 6" WHITE		WET REF TEM TAPE T3 (SEE GENERAL NOTES SHT G-02)
			IMPACT ATTENUATOR NRD T3		RAMP CLOSED		5 PVT MK - LINE 12"		
							6 PVT MK - LTRS & SYMB		



ADVISORY SIGNS INSTALLED
IN-ADVANCE OF THE WORK AREA



HNTB

USER NAME = lsupencheck	DESIGNED - LLS / MM	REVISED -
	DRAWN - LLS / MM	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 6/29/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
STAGE 2

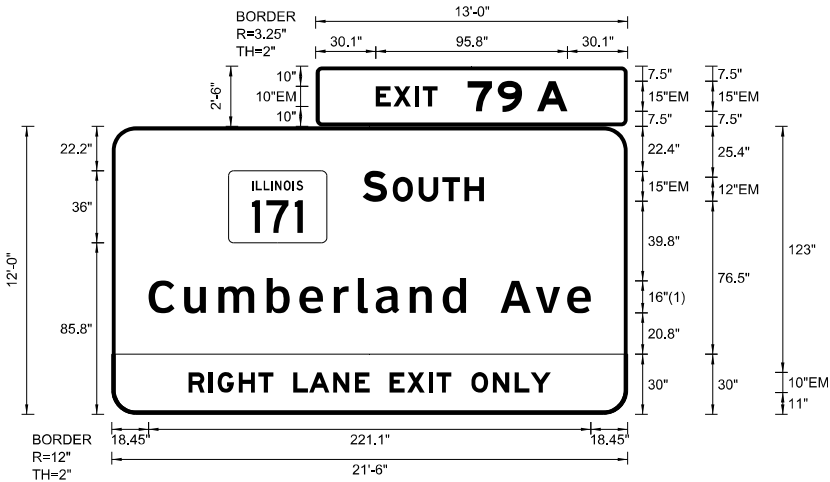
SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 3027+75 TO STA. 3042+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	39
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

MOT-09

SIGN DETAIL

1:100



FONT:
(1) ClearviewHwy-5-W

Panel Style: guide_exp_advance_a.ssi

Dimensions are in inches.tenths

Letter spacings are to start of next letter

SIGN NUMBER	TEMP. INFO. SIGN 1 (EB)
WIDTH x HGHT.	21'-6" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1-1100A-3-22-1010	0	58.4	85.8	49.1	36

LETTER POSITIONS (X)																				LENGTH	SERIES	SIZE
	E	X	I	T		7	9		A													EM 2000
30.1	8.8	10.8	3.8	7.4	15	15.2	12.2	7.5	15.2	30.1											95.8	10,15
	S		O	U	T	H																EM 2000
125.5	12.2	2.8	13	11.9	11	9.7	71.9														60.6	15,12
	C	u	m	b	e	r	l	a	n	d		A	v	e								ClearviewHwy-5-W
18.4	17.9	17	24.2	16.4	17.2	12	8.9	17	16.5	11.6	17.3	17.6	15.7	11.8	18.4						221.1	1613
	R	I	G	H	T		L	A	N	E		E	X	I	T		O	N	L	Y		EM 2000
38.4	10.2	4.4	10.5	9.9	7.4	10	8	11.9	10.9	7.4	10	8.8	10.8	3.8	7.4	10	10.8	10.9	8	10.1	188.2	10

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USER NAME = Isupencheck	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 3/11/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INFORMATION SIGNS

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

F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90		1617B(13)	COOK	223	40
		CONTRACT NO. 62A64			
		ILLINOIS FED. AID PROJECT			

TEMP-SGN-01

1:100



Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	14.9	91.3	45	36
M1_1	0	158.5	91.3	45	36
Airport	0	236	85	15.6	16

TEMP-SGN-02

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	41
		CONTRACT NO. 62A6		
ILLINOIS		FED. AID PROJECT		

FILE NAME = ...01265-stt-detour-01.dgn

HNTB

USER NAME = jbarnes
PLOT SCALE = 1.0000' / 1" =
PLOT DATE = 3/9/2015

DESIGNED - MAP
DRAWN - MAP
CHECKED - LLS
DATE - 03/20/2015

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL
EAST RIVER ROAD DETOUR PLAN

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	42
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				



LEGEND

- PROPOSED DETOUR ROUTE
- WORK ZONE
- SIGN POST
- TYPE III BARRICADE

DETOUR SIGNS TYPE & SIZE

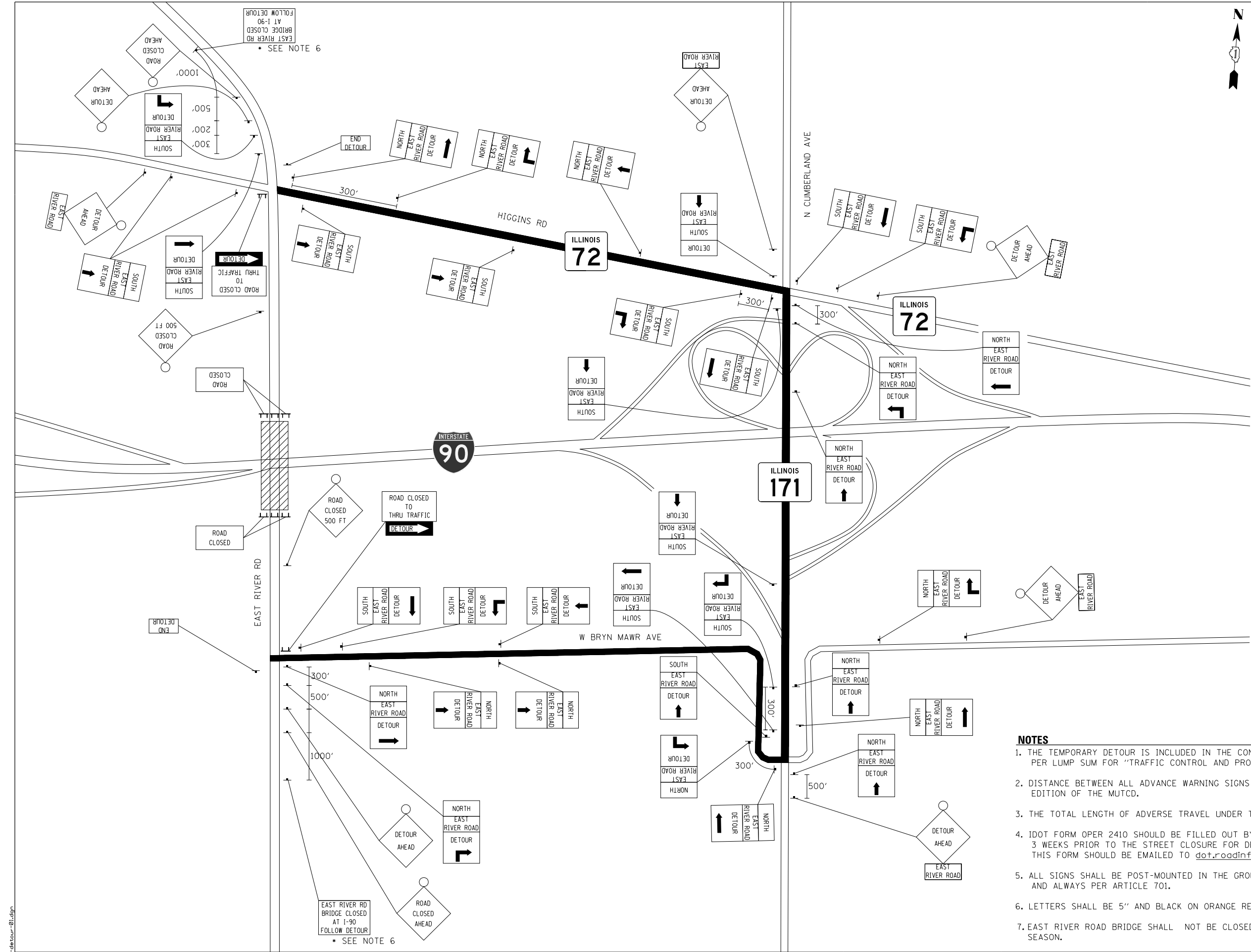
ALL SIGN COLORS SHALL BE ACCORDING TO THE LATEST EDITION OF THE MUTCD

ROAD CLOSED AHEAD	W20-3	48" x 48"
ROAD CLOSED 500 FT	W20-3	48" x 48"
DETOUR AHEAD	W20-2	48" x 48"
ROAD CLOSED	R11-2	48" x 30"
ROAD CLOSED TO THRU TRAFFIC	R11-4	60" x 30"
DETOUR	M4-10R	48" x 18"
DETOUR	M4-10L	48" x 18"
DETOUR	M4-9	48" x 36"
DETOUR	M4-9	48" x 36"
DETOUR	M4-9	48" x 36"
DETOUR	M4-9	48" x 36"
DETOUR	M4-9	48" x 36"
DETOUR	M4-9	48" x 36"
SOUTH	M3-3	21" x 12"
NORTH	M3-3	24" x 12"
END DETOUR	M4-8a	24" x 18"
EAST RIVER ROAD	W17-1101	36" x 18"

NOTES

- THE TEMPORARY DETOUR IS INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR".
- DISTANCE BETWEEN ALL ADVANCE WARNING SIGNS SHOULD BE 500' PER THE LATEST EDITION OF THE MUTCD.
- THE TOTAL LENGTH OF ADVERSE TRAVEL UNDER THIS OPTION IS APPROXIMATELY 1.6 MILES.
- IDOT FORM OPER 2410 SHOULD BE FILLED OUT BY THE CONTRACTOR A MINIMUM OF 3 WEEKS PRIOR TO THE STREET CLOSURE FOR DETOUR ROUTES ASSOCIATED WITH IDOT ROUTES. THIS FORM SHOULD BE EMAILED TO dot.roadinfo@illinois.gov FOR IDOT DISTRICT 1 REVIEW.
- ALL SIGNS SHALL BE POST-MOUNTED IN THE GROUND WHENEVER POSSIBLE PER STANDARD 701901 AND ALWAYS PER ARTICLE 701.
- LETTERS SHALL BE 5" AND BLACK ON ORANGE REFLECTIVE BACKGROUND.
- EAST RIVER ROAD BRIDGE SHALL NOT BE CLOSED TO TRAFFIC FOR MORE THAN ONE CONSTRUCTION SEASON.

DET-01



EROSION AND SEDIMENT CONTROL GENERAL NOTES

1.

THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT. FULL COMPLIANCE WITH ALL TERMS OF THE NPDES PERMIT MUST BE STRICTLY ADHERED TO.
2.

THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS ON DOWNSTREAM AREAS.
3.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4.

TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL NOT BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
5.

ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL REDUCE OVERLAND FLOW RATES AS WELL AS CURTAIL ON AND OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
6.

ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA WILL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH GENERAL EARTHWORK ON A PROJECT THE CONTRACTOR WILL OBTAIN APPROVAL OF HIS PROPOSED EARTHWORK AND STABILIZATION SCHEDULE.
7.

A MAXIMUM OF 10 ACRES MAY BE IN SOME STAGE OF GRADING AT A SINGLE TIME. ADDITIONAL AREAS (UP TO 10 ACRES) MAY BE CLEARED BUT WILL NOT BE STRIPPED OF VEGETATION UNTIL THE GRADED AREAS HAVE BEEN PROTECTED FROM EROSION THROUGH INSTALLATION OF EITHER TEMPORARY OR PERMANENT MEASURES. WHENEVER POSSIBLE, THE GRADING WILL BE COMPLETED TO THE DESIGN GRADE AND THE PERMANENT VEGETATION PLAN IMPLEMENTED PRIOR TO STARTING GRADING ACTIVITIES ON THE NEXT SITE.

(A)

WHEN BALANCING EARTHWORK (BORROW FROM A CUT USED AS FILL AT A LOCATION DISTANT FROM THE CUT) THE ENGINEER WILL CONSIDER ALLOWING MORE THAN 10 ACRES OF GRADING AT A TIME. THE 10 ACRE LIMITATION DOES NOT INCLUDE HAUL ROADS, BRIDGE CONSTRUCTION WORK AREAS NOR STORAGE AREAS.

(B)

VARIATIONS TO THE ABOVE MAY BE CONSIDERED BY THE ENGINEER UNDER ALL THE FOLLOWING CONDITIONS:

-

IF THE CONTRACTOR FALLS BEHIND SCHEDULE THROUGH NO FAULT OF HIS OWN.

-

THE CONTRACTOR MUST PRESENT A SCHEDULE DEMONSTRATING THE NEED FOR SUCH VARIATION IN ORDER TO COMPLETE WORK ON TIME.

8.

DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 1 CALENDAR DAY. TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.

9.

STABILIZATION OF CUT OR FILL SLOPES WITH PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10 FEET VERTICALLY OR THE FINISHED SLOPE HEIGHT EQUALS 30 FEET, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED. TEMPORARY STABILIZATION OF THE CUT OR FILL SLOPES USING MULCH METHOD 2 WILL BE INSTALLED WITHIN 1 CALENDAR DAY WHEN ACTIVITY ON THE CUT OR FILL SLOPE CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.

10.

THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS GREATER THAN 0.5 IN. OR EQUIVALENT SNOWFALL. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS. INSPECTION MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS.
11.

SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE INSPECTED REGULARLY AND MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE- HALF THE DESIGN DEPTH OF THE TRAP. ALL SEDIMENTS SHALL BE REMOVED TO AN APPROVED SITE. STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHED 50% THE HEIGHT OF THE CONTROL DEVICE. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.

12.

SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND LIVE STREAMS OR WETLANDS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE, AND STABILIZED IMMEDIATELY AFTER FINAL SHAPING OF THE PILE IN ACCORDANCE WITH MULCH, METHOD 2. THE CONTRACTOR WILL PROVIDE AN ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.

13.

MATERIAL EXCAVATED FOR THE CONSTRUCTION OR CLEANOUT OF SEDIMENT TRAPS OR SEDIMENT BASINS SHALL NOT BE STOCKPILED IN (THE VICINITY OF) THE TRAP OR BASIN. IT WILL EITHER BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.

14.

EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COST OF THE CONTROLS.

15.

SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.

16.

WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:

(A)

ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.

(B)

THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION STRAW MULCH.

(C)

ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.

17.

SEEDING USAGE

CLASS 2A SALT TOLERANT ROADSIDE MIX USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES INTENDED TO BE MOWED BY IDOT.

SODDING SALT TOLERANT, USED IN AREAS ADJACENT TO OTHER AREAS REQUIRING A HIGH ORDER OF APPEARANCE INTENDED TO BE MOWED BY SOMEONE OTHER THAN IDOT.

TEMPORARY EROSION CONTROL SEEDING USED ON SHORT TERM TEMPORARY SEEDING.

18.

TOP SOIL PLACEMENT: TOPSOIL WILL NOT BE PLACED AT AREAS COMPLETED WHERE FURTHER CONSTRUCTION WILL BE DONE AS PART OF THIS CONTRACT.

19.

SEDIMENT CONTROL DRAINAGE STRUCTURE INLET FILTER SHALL BE INSTALLED AND MAINTAINED AT EACH EXISTING AND PROPOSED INLET WITHIN THE PROJECT LIMITS.

20.

INLET AND PIPE PROTECTION: INSPECT REGULARLY AND AFTER EVERY STORM. MAKE REPAIRS AS NECESSARY TO ENSURE THAT THE MEASURE IS IN GOOD WORKING ORDER. CLEAN OR REMOVE AND REPLACE THE FILTER FABRIC IF IT BECOMES CLOGGED. WORK IS INCLUDED IN COST OF INLET AND PIPE PROTECTION. INLET AND PIPE PROTECTION SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.

21.

SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD SHEET 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS ARE A SUITABLE ALTERNATIVE IN PLACE OF SILT FENCE.

22.

PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.

23.

THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
24.

TREE PROTECTION FENCING SHALL BE ERECTED AT THE LOCATIONS AS SPECIFIED ON THE APPROVED PLANS PRIOR TO ANY LAND CLEARING, GRUBBING, GRADING OR EARTH MOVING ACTIVITIES.

25.

THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO EXISTING CULVERTS. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS. ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.

26.

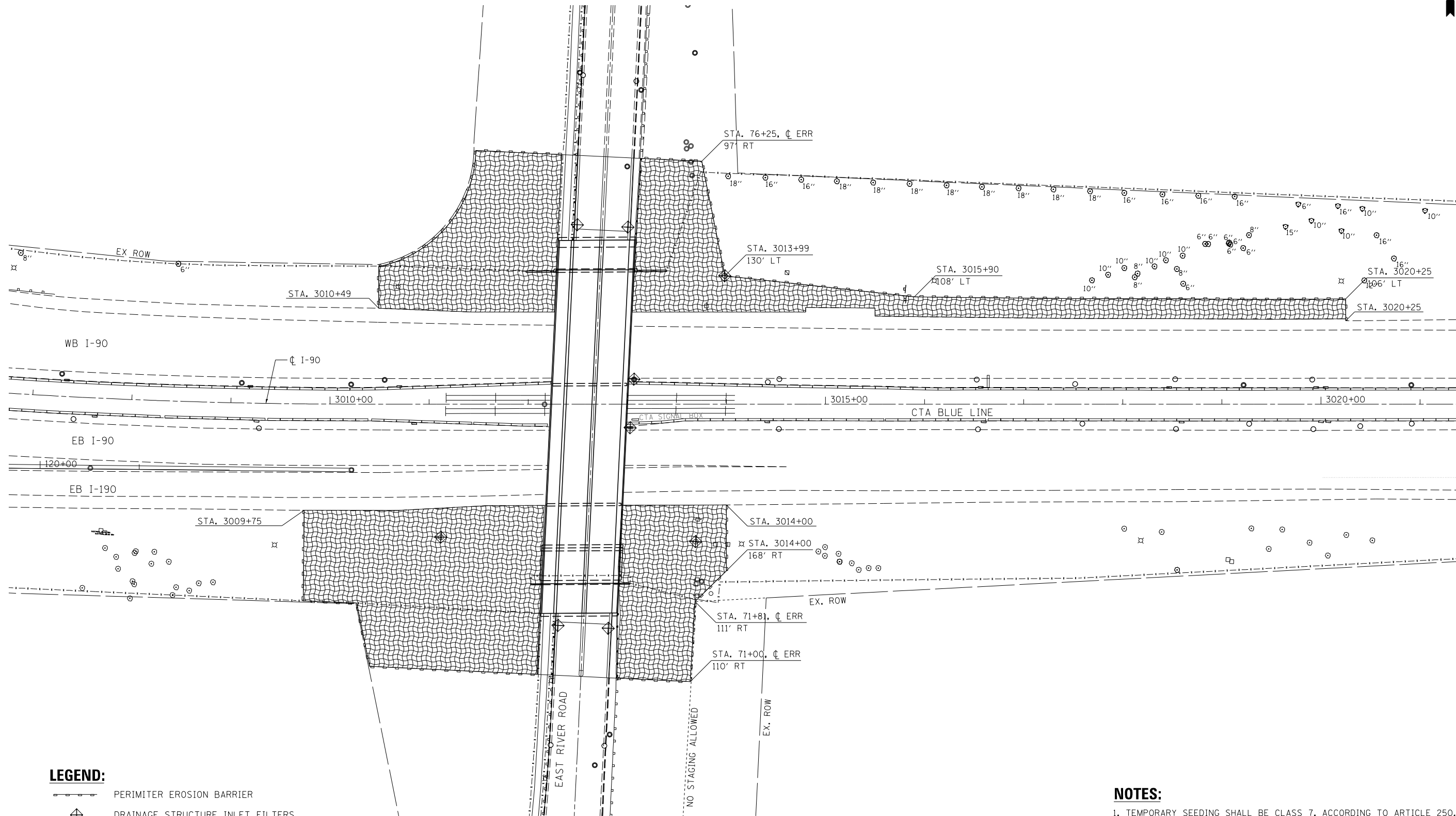
ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.

27.

EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.

28.

ALL WORK ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF STABILIZED CONSTRUCTION ENTRANCES, AND CONCRETE WASHOUTS SHALL BE INCLUDED WITH PAY ITEM STABILIZED CONSTRUCTION ENTRANCE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- FILE NAME : \\0026264-sit-eros-01.dgn
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- | | | |
|-----------------------------|-------------------|-----------|
| USER NAME : lsupencheck | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
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| PLOT DATE = 3/12/2015 | DATE - 03/20/2015 | REVISED - |
- STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
- EROSION AND SEDIMENT CONTROL
GENERAL NOTES
- SCALE: SHEET OF SHEETS STA. TO STA.
- | | | | | |
|-------------|-----------|--------------------|------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90 | 1617B(13) | COOK | 223 | 43 |
| | | CONTRACT NO. 62A64 | | |
| | | ILLINOIS | FED. AID PROJECT | |
- ESC-01



LEGEND:

- PERIMETER EROSION BARRIER
- DRAINAGE STRUCTURE INLET FILTERS
- TEMPORARY SEEDING WITH EROSION CONTROL BLANKET

NOTES:

- TEMPORARY SEEDING SHALL BE CLASS 7, ACCORDING TO ARTICLE 250.07.
- THE CONTRACTOR SHALL SUBMIT STABILIZED CONSTRUCTION ENTRANCE LOCATIONS TO THE ENGINEER FOR APPROVAL.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

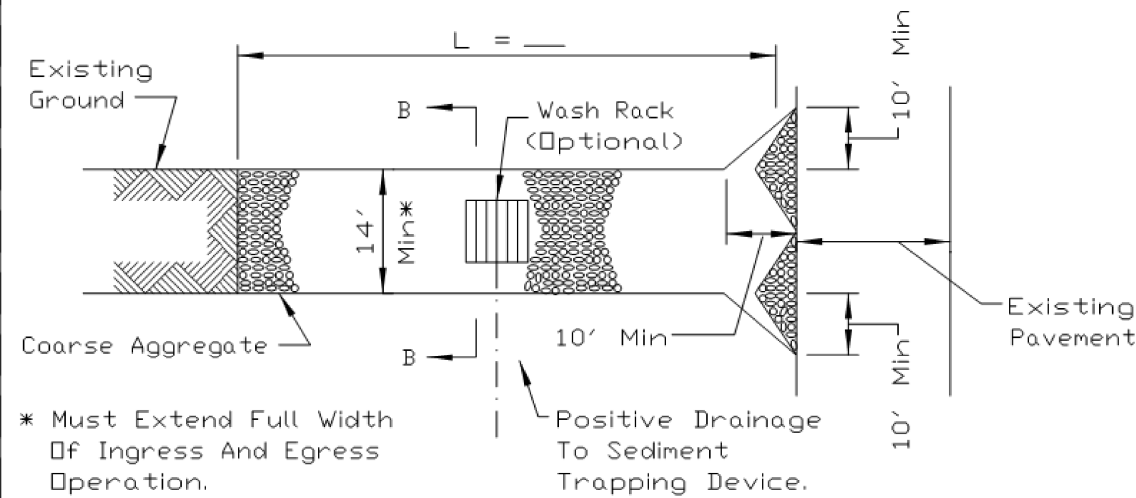
EROSION CONTROL PLAN

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 71+00.00 TO STA. 76+25.00

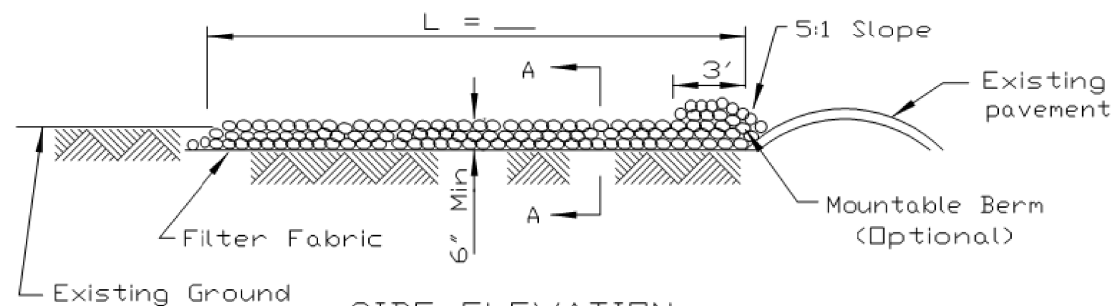
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	44
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

ESC-02

STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

NOTES:

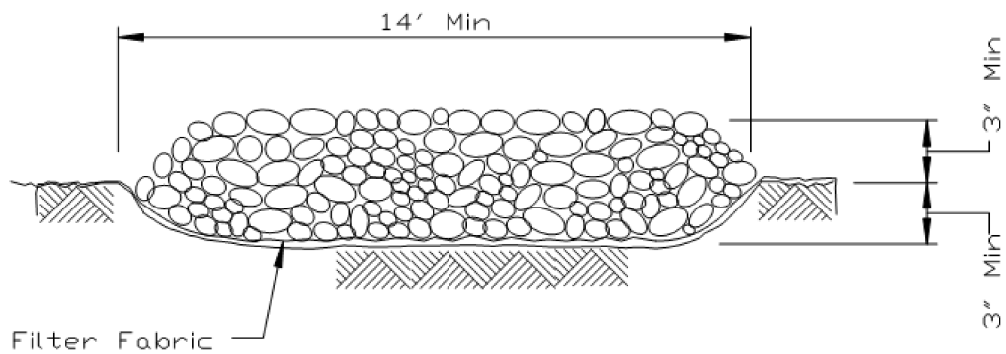
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3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

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

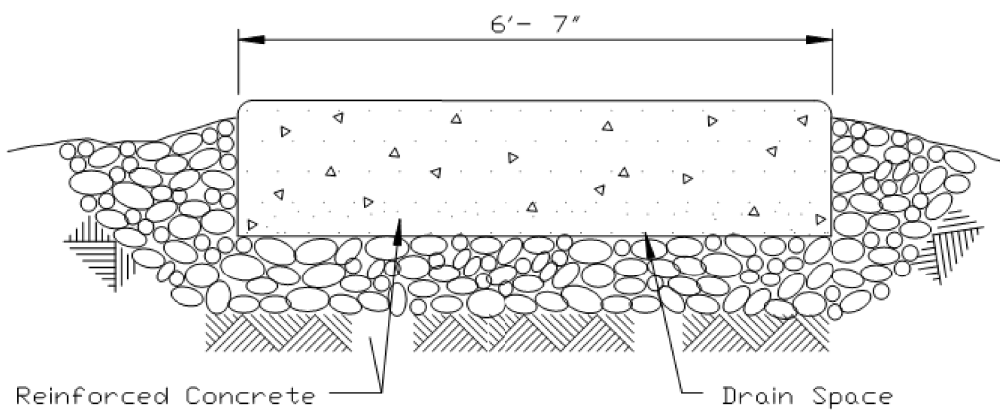


STANDARD DWG. NO.
IL-630
SHEET 1 OF 2
DATE 8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



SECTION B-B

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



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

FILE NAME = 002264-sit-eros-93.dgn

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 3/18/2015	DATE - 03/20/2015	REVISED -

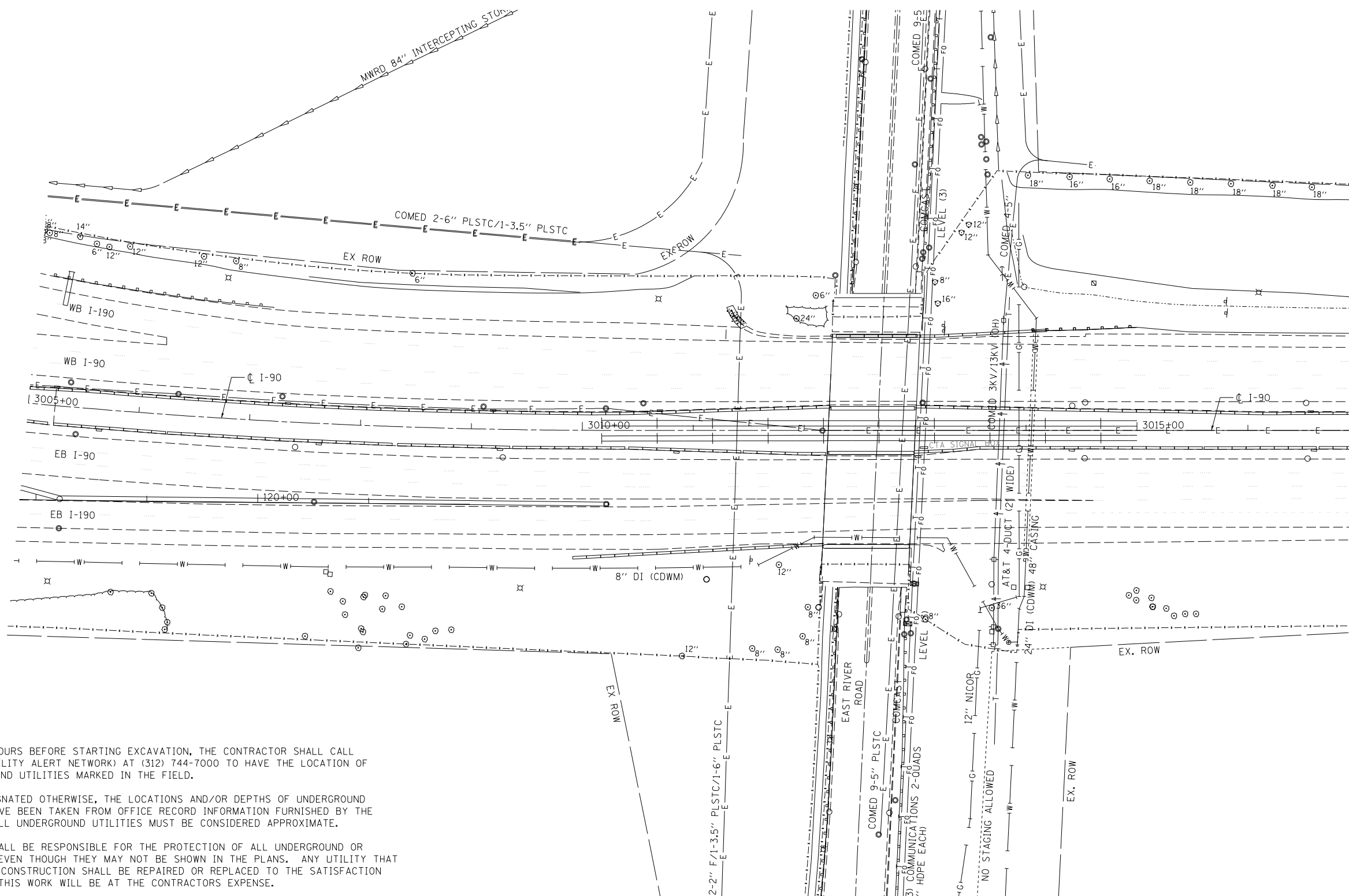
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

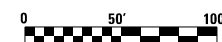
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	45
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

ESC-03



NOTES:

1. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
2. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.



UT-01

USER NAME = lsupencheck	DESIGNED -	REVISED -	<div>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</div>	<div>EXISTING UTILITIES</div>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN - LLS/MMK	REVISED -			90	1617B(13)	COOK	223	46	
PLOT SCALE = 1,0000 ' / in.	CHECKED - LLS	REVISED -			CONTRACT NO. 62A64					
PLOT DATE = 03/20/2015	DATE - 03/20/2015	REVISED -								
					SCALE: 1" = 50'	SHEET 1	OF 1	SHEETS	STA. N/A	TO STA. N/A
				ILLINOIS FED. AID PROJECT						

HNTB

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING UTILITIES

SCALE: 1" = 50'	SHEET 1	OF 1	SHEETS	STA. N/A	TO STA. N/A
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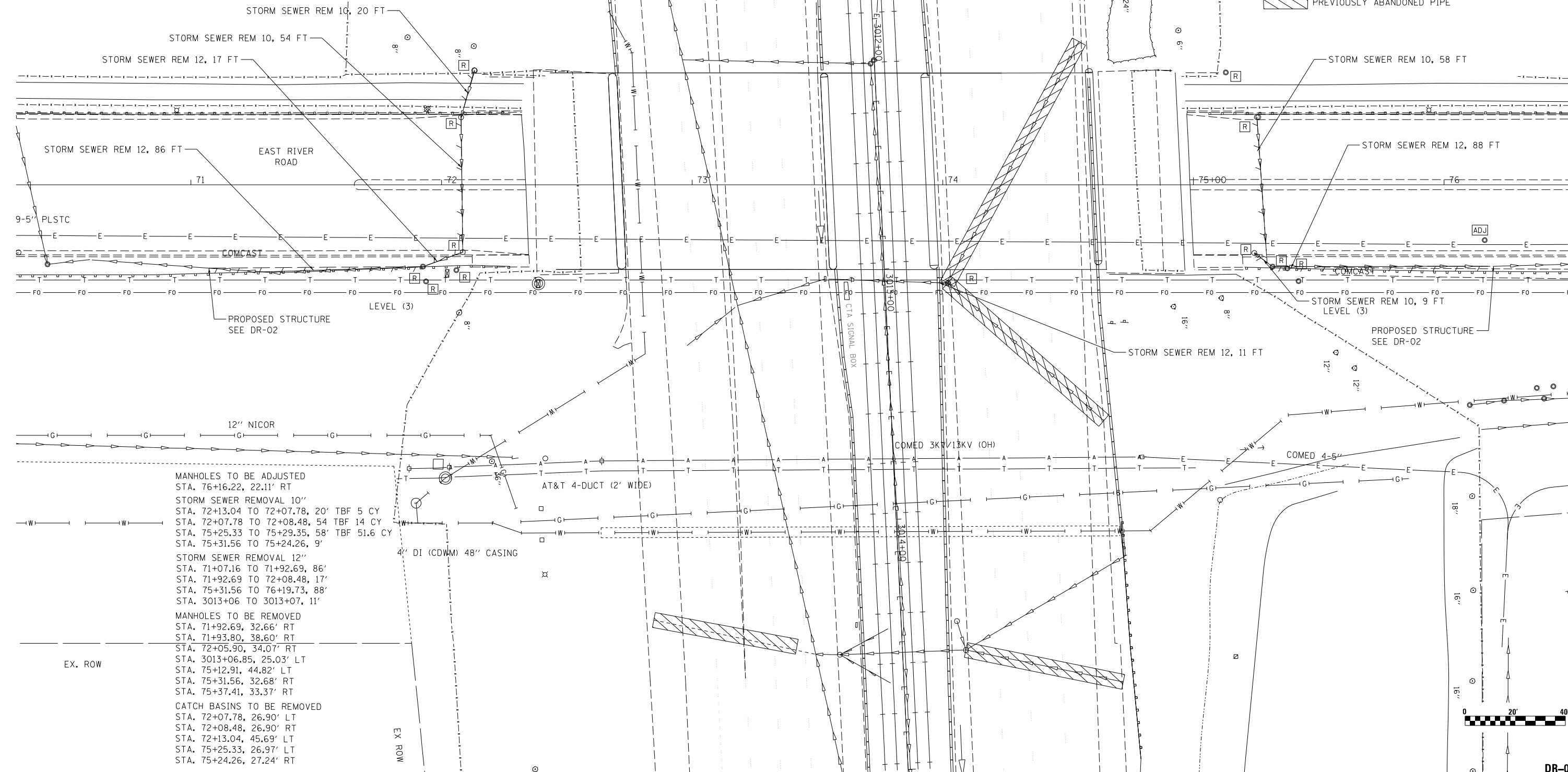
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	46
		CONTRACT NO. 62A64		
ILLINOIS		FED. AID PROJECT		

NOTES:

1. STORM SEWER REMOVALS SHALL BE COORDINATED WITH PROPOSED STORM SEWERS.
2. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
3. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.

LEGEND

- [R] DRAINAGE STRUCTURE REMOVAL
- [ADJ] DRAINAGE STRUCTURE ADJUSTMENT
- DRAINAGE PIPE REMOVAL
- [Hatched Box] PREVIOUSLY ABANDONED PIPE



USER NAME = lsupencheck
DRAWN = MMK
CHECKED = LLS
PLOT DATE = 7/15/2015

DESIGNED - MMK
DRAWN - MMK
CHECKED - LLS
DATE - 03/20/2015

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

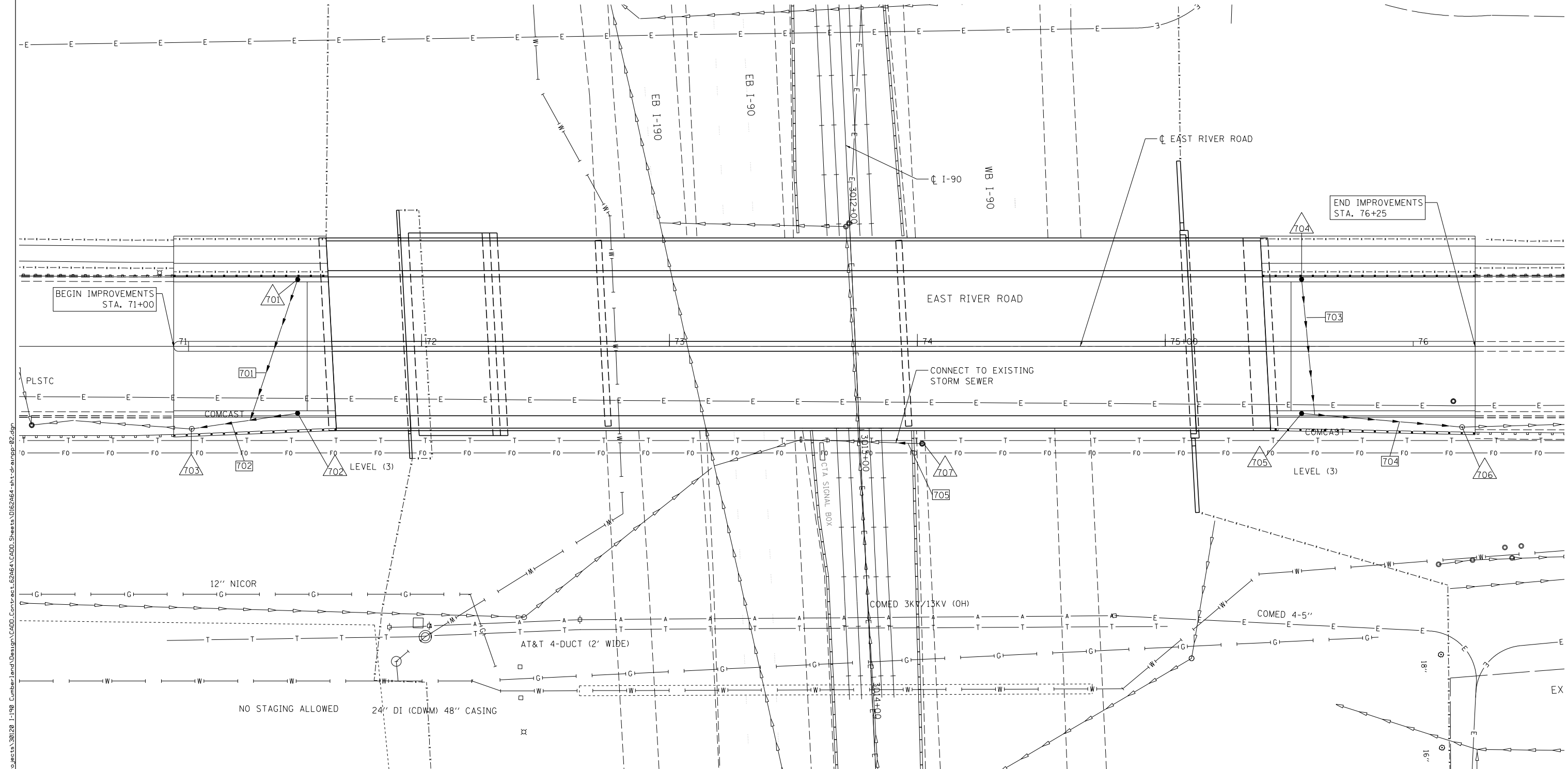
EXISTING DRAINAGE PLAN
EAST RIVER ROAD /I-90

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 71+00.0 TO STA. 76+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	47
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

DR-01

FILE NAME : \\hntb\p056\hntb\proj\4162464\Drawings\Chicago\Projects\30120-1-198_Cumberland\Drawings\CAAD_Contract\62464\Sheet\012464-shd-dwg.dgn



LEGEND

- | | | | | | |
|-----|----------------------|---|---|---|--------------------|
| —●— | PROPOSED STORM SEWER | ● | PROPOSED CATCH BASIN | △ | PROPOSED STRUCTURE |
| —+— | PROPOSED SUMMIT | ○ | PROPOSED MANHOLE | □ | PROPOSED PIPE |
| —~— | PROPOSED DITCH | ■ | MEDIAN DRAINAGE STRUCTURE | | |
| —+— | PROPOSED SWALE | ▲ | PRECAST REINFORCED CONC. FLARED END SECTION | | |
| —■— | PROPOSED INLET | | | | |



HNTB

USER NAME = lsupencheck	DESIGNED - MMK	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.0000' / 1" =	CHECKED - MAM	REVISED -
PLOT DATE = 7/15/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN EAST RIVER ROAD

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 71+00 TO STA. 76+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	48
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

DR-02

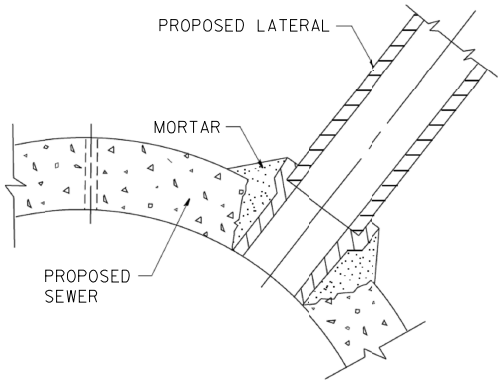
DRAINAGE STRUCTURE DATA

STRUCURE NO.	DESCRIPTION	ALIGNMENT	STATION*	OFFSET*	DIR.	PROPOSED* RIM ELEV.	NORTH	SOUTH	EAST	WEST	PIPE ID-PIPE SIZE NORTH	PIPE ID-PIPE SIZE SOUTH	PIPE ID-PIPE SIZE EAST	PIPE ID-PIPE SIZE WEST	SHEET NO.	NOTES:
701	4' DIA CB TY A (CITY OF CHICAGO)	EX ERR	71+50.0	26.0	L	655.76			650.07				701 8		DR-02	
702	4' DIA CB TY A (CITY OF CHICAGO)	EX ERR	71+50.0	26.0	R	655.76		649.67				702 8			DR-02	
703	4' DIA MH TY B (CITY OF CHICAGO)	EX ERR	71+07.3	33.3	R	655.10		646.53		649.24	702 8	EX 12			DR-02	FIELD VERIFY EXISTING PIPE DEPTH
704	4' DIA CB TY A (CITY OF CHICAGO)	EX ERR	75+55.0	26.0	L	656.34			650.07				703 8		DR-02	
705	4' DIA CB TY A (CITY OF CHICAGO)	EX ERR	75+55.0	26.0	R	656.34	649.58				704 8				DR-02	
706	4' DIA MH TY B (CITY OF CHICAGO)	EX ERR	76+19.7	32.5	R	655.50	643.77	648.93			EX 12	704 8			DR-02	FIELD VERIFY EXISTING PIPE DEPTH
707	4' DIA MH TY A T20	EX I-90	3013+07	25.0	L	636.86		649.66				705 12			DR-02	

• STATIONS AND OFFSETS TO CENTER OF STRUCTURE, RIM ELEVATION CALLED OUT AT EDGE OF PAVEMENT

DRAINAGE PIPE DATA

PIPE NO.	DESCRIPTION	SIZE (IN)	LENGTH	SLOPE	TRENCH BACKFILL	SHEET NO.	FROM NODE	TO NODE	NOTES
701	8" ESVCP, CITY OF CHICAGO	8	55	1.00	24.2	DR-02	701	703	ESVCP, CITY OF CHICAGO; CONNECT TO PIPE 702
702	8" ESVCP, CITY OF CHICAGO	8	43	1.00	20.2	DR-02	702	703	ESVCP, CITY OF CHICAGO
703	8" ESVCP, CITY OF CHICAGO	8	54	1.00	23.8	DR-02	704	706	ESVCP, CITY OF CHICAGO; CONNECT TO PIPE 704
704	8" ESVCP, CITY OF CHICAGO	8	65	1.00	28.6	DR-02	705	706	ESVCP, CITY OF CHICAGO
705	STORM SEWERS, CLASS A, TYPE 1	12	11	1.00	7.8	DR-02	707	-	CONNECT TO EXISTING PIPE PER D-1 STD BD-07, MATCH EXISTING SLOPE



LATERAL CONNECTION TO PROPOSED SEWER
SCALE: N.T.S.

FILE NAME = ...\\0126264-sit-drainshed-03.dgn



USER NAME = mkosir	DESIGNED - MMK	REVISED -
	DRAWN - MMK	REVISED -
PLOT SCALE = 1.0000' / 1in.	CHECKED - MAM	REVISED -
PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULES
AND DETAILS

SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	49
CONTRACT NO. 62A64				DR-03
ILLINOIS FED. AID PROJECT				

FILE NAME = ...\\022654-sht-draindet-04.dgn

HNTB

USER NAME = mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1" =	CHECKED -	REVISED -
PLOT DATE = 3/5/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

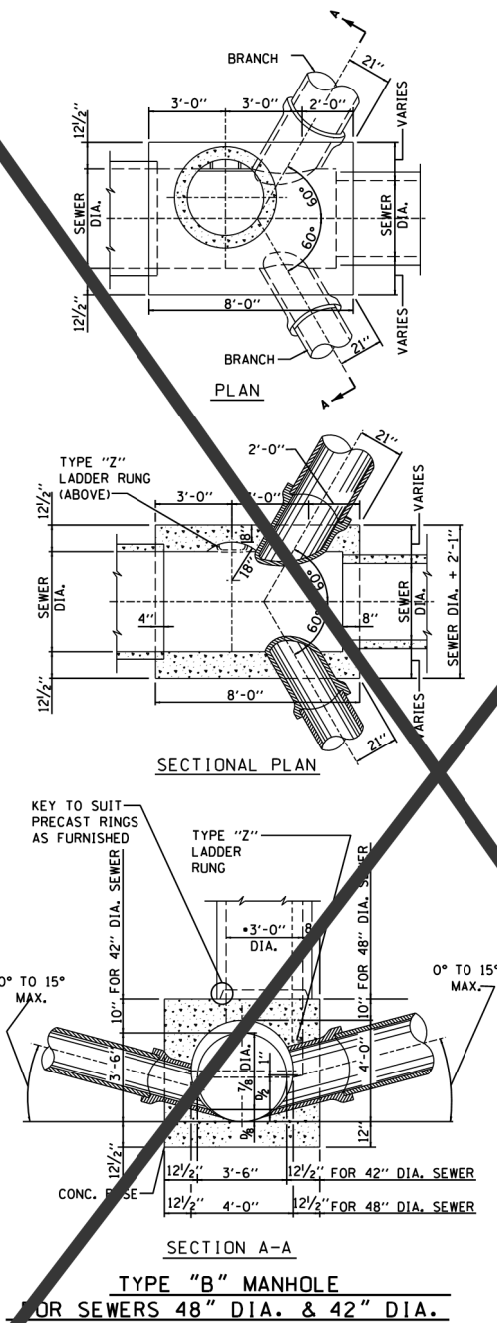
DRAINAGE DETAILS
CITY OF CHICAGO

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	50
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

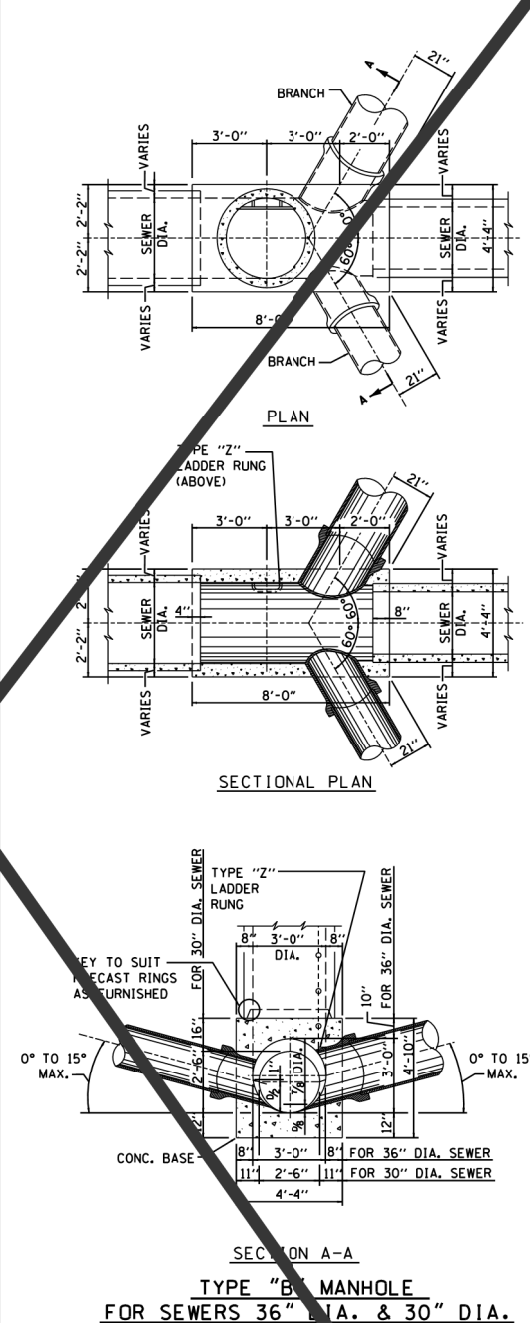
DR-04

\$FILE\$
\$DATE\$

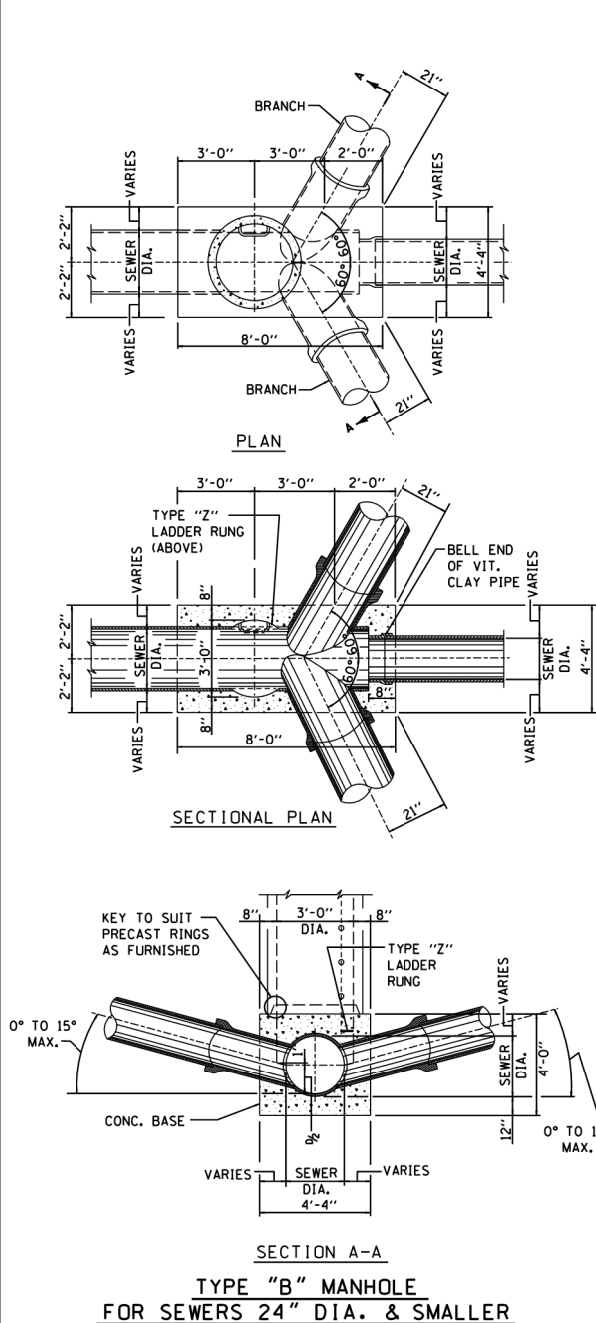


Not To Scale

- NOTES:
- CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF ALL PROPOSED MANHOLE CONFIGURATIONS FOR APPROVAL PRIOR TO SUBMISSION OF MATERIAL ORDERS.
 - CONNECTION BELLS MAY BE INSTALLED AT MANUFACTURER'S SITE, OR MORTARED IN PLACE IN THE FIELD. SEE SHEET A.10A FOR FURTHER CONFIGURATION DETAILS.
 - BASES MUST BE PRECAST WITH THE CORRECT NUMBER OF PIPE OPENINGS, CORRESPONDING TO THE REPRESENTATION IN THE PLAN AND PROFILE SHEETS.
 - PATCHING, BRICKING, OR OTHER MATERIAL METHODS OF CLOSING UNUSED HOLES WILL NOT BE ACCEPTED.



Not To Scale



Not To Scale

STANDARD REVISIONS	
DATE	DESCRIPTION
1/22/14	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

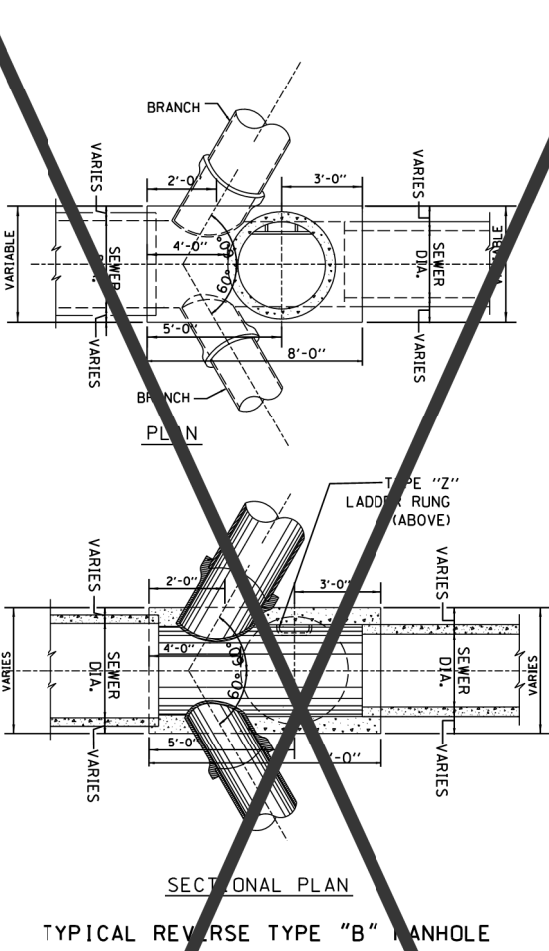
TYPE "B" MANHOLE

DESIGNED	SEEN
CHECKED	
REVIEWED	

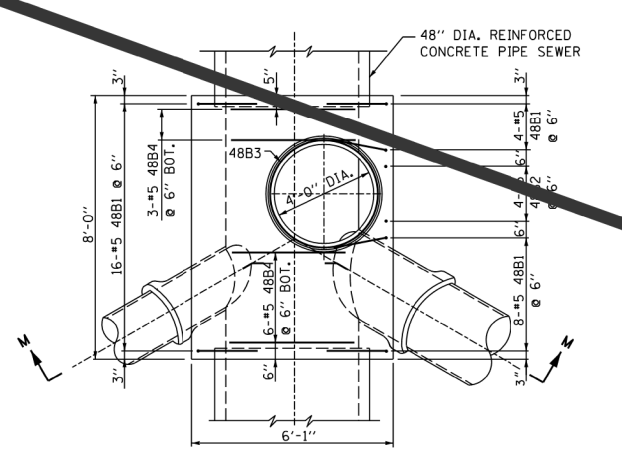
A.9

OF

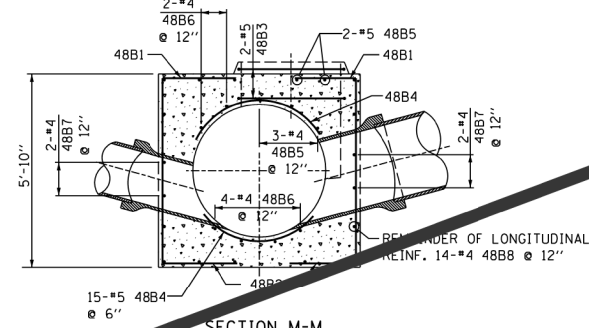
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Not To Scale

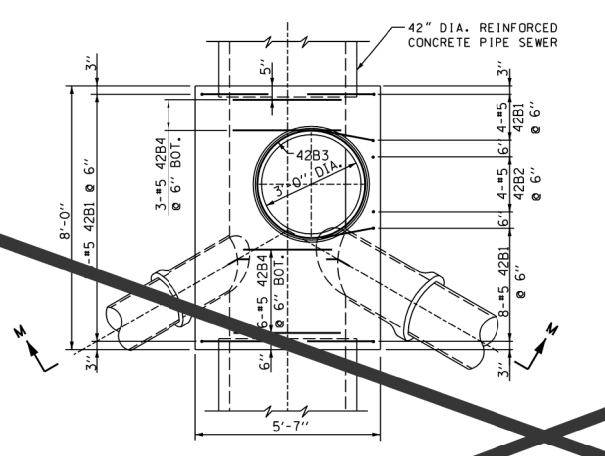


PLAN

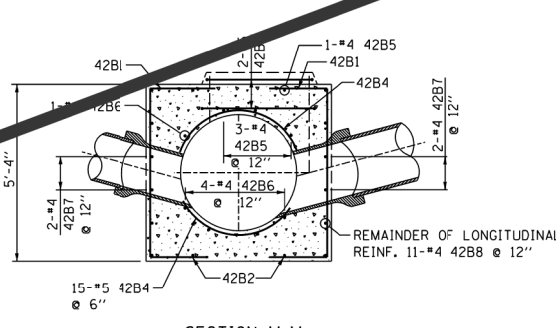


SECTION M-M

48" DIA. SEWER

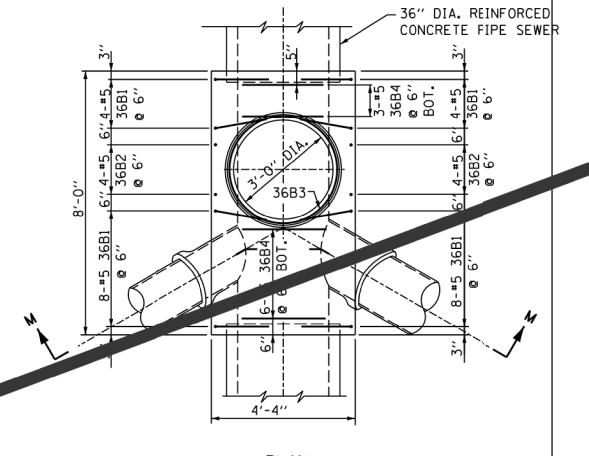


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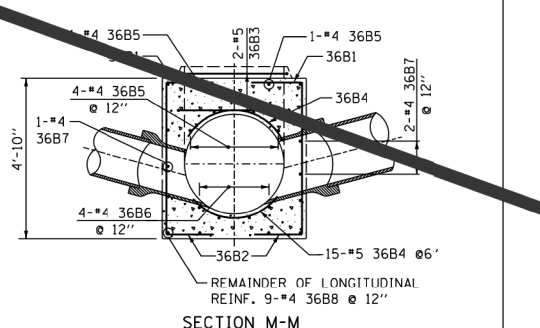


SECTION M-M

42" DIA. SEWER

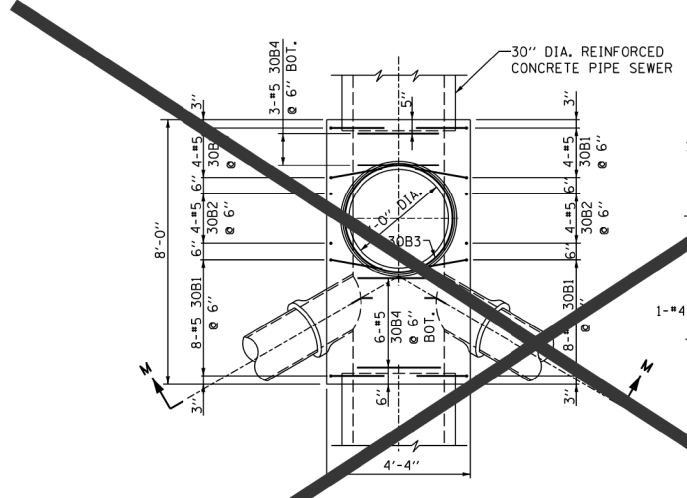


PLAN

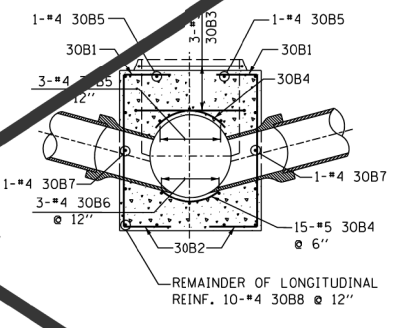


SECTION M-M

36" DIA. SEWER

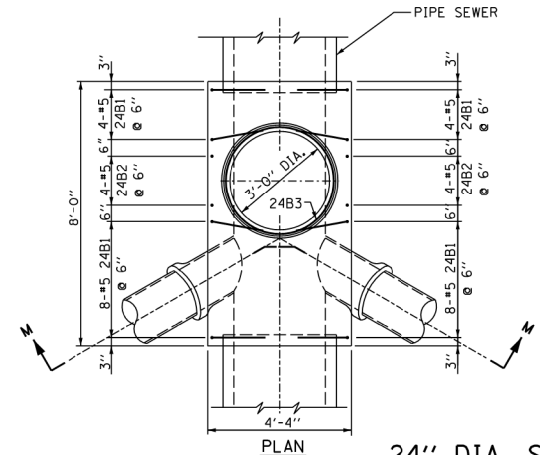


PLAN

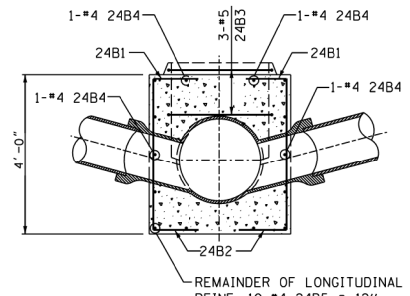


SECTION M-M

30" DIA. SEWER



PLAN



SECTION M-M

24" DIA. SEWERS & SMALLER

- NOTES:
1. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF ALL PROPOSED MANHOLE CONFIGURATIONS FOR APPROVAL PRIOR TO SUBMISSION OF MATERIAL ORDERS.
 2. CONNECTION BELLS MAY BE INSTALLED AT MANUFACTURER'S SITE, OR MORTARED IN PLACE IN THE FIELD. SEE SHEET A.10A FOR FURTHER CONFIGURATION DETAILS.
 3. BASES MUST BE PRECAST WITH THE CORRECT NUMBER OF PIPE OPENINGS, CORRESPONDING TO THE REPRESENTATION IN THE PLAN AND PROFILE SHEETS.
 4. PATCHING, BRICKING, OR OTHER MATERIAL METHODS OF CLOSING UNUSED HOLES WILL NOT BE ACCEPTED.

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES	DRAWING NO. DESIGNED: CHECKED: REVIEWED: A.10
DATE	DESCRIPTION				
1/22/14	revision	30		REINFORCEMENT FOR TYPE "B" MANHOLE BASES	OF PN
		60			
		75			
		90			
		100			
		BULLETIN			

FILE NAME : ..\022624-sitt-dr-andet-05.dgn



USER NAME : mkosir	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE : 1.00' / 1"	CHECKED -	REVISED -
PLOT DATE : 3/5/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
CITY OF CHICAGO

SCALE: NTS	SHEET 2	OF 2 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	51
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

DR-05

CHICAGO DEPARTMENT OF WATER (WATER MAIN INSTALLATION NOTES)

LOCATION OF UTILITIES AND PROPERTY LINES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.

THE CONTRACTOR MUST VERIFY THE LOCATION OF UNDERGROUND UTILITIES WITH THE UTILITY OWNERS PRIOR TO DOING ANY WORK IN THE VICINITY. THE CONTRACTOR MUST COMPLY WITH REQUIREMENTS OF UTILITY OWNERS REGARDING NOTICE OF WORK AND PROTECTION OF UTILITIES.

FITTINGS AND THEIR LOCATIONS INDICATED ON THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR MUST COMPLETE THE INSTALLATION WITH THE NECESSARY FITTINGS DICTATED BY FIELD CONDITIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEVIATIONS FROM THE INDICATED FITTINGS.

WORK INDICATED ON THE PLANS AND NOT REFERENCED TO A BID ITEM IS CONSIDERED INCIDENTAL TO THE WORK TO WHICH IT APPLIES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

WATER MAIN AND FITTINGS LOCATIONS SHOWN ON THE DRAWINGS FOR THE NEW WATER MAINS AND APPURTENANCES MAY BE CHANGED BY THE COMMISSIONER (ENGINEER)

DUE TO FIELD CONDITIONS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR SUCH CHANGES, UNLESS PREVIOUSLY APPROVED BY THE COMMISSIONER (ENGINEER).

THE CONTRACTOR MUST PROVIDE THRUST RESTRAINTS IN ACCORDANCE WITH THE SPECIFICATIONS. THE CONTRACTOR MUST FURNISH AND INSTALL MECHANICAL JOINT THRUST RESTRAINT GLANDS ON ALL WATER MAINS

THE OPERATION OF ALL VALVES MUST BE PERFORMED BY CITY FORCES PURSUANT TO A 72 HOUR ADVANCE NOTIFICATION TO THE DEPARTMENT.

ALL OPENINGS IN EXISTING WATER MAINS MUST BE PLUGGED OR CAPPED WITH DUCTILE IRON FITTINGS UNTIL THE MAIN IS ABANDONED.

ALL VALVE BASINS MUST BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE UNLESS DIRECTED OTHERWISE BY THE COMMISSIONER (ENGINEER).

NOTES INDICATING S.N.L., E.W.L., ETC., MEAN SOUTH OF THE NORTH PROPERTY LINE, EAST OF THE WEST PROPERTY LINE, ETC. AND ARE MEASURED FROM THE NEAREST STREET.

IF A STANDARD MECHANICAL JOINT SLEEVE DOES NOT FIT TO MAKE CONNECTION OF THE NEW PIPE TO THE EXISTING PIPE, A TRANSITION SLEEVE MUST BE USED. NO GRINDING OF THE EXISTING PIPE IS PERMITTED.

THE CONTRACTOR MUST COMPLY WITH THE CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION DAMAGE PREVENTION PROTOCOL CITY INFRASTRUCTURE DEPARTMENTS. ALL UTILITIES MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION.(CALL DIGGER 312-744-7000).

TEST PITS MUST BE EXCAVATED IN ADVANCE OF PIPELINE CONSTRUCTION IN ORDER TO CONFIRM DEPTH AND LOCATION OF EXISTING UTILITIES AND WHEN DIRECTED BY THE DEPARTMENT MANAGER, NO ADDITIONAL PAYMENT WILL BE MADE FOR TEST PIT EXCAVATION. IF ANY PUBLIC OR PRIVATE UTILITIES CROSS THE WATER MAIN TRENCH, PROVIDE EROSION CONTROL IN ACCORDANCE WITH THE SPECIFICATIONS AND MUST REMAIN INPLACE, THE CONTRACTOR MUST PROTECT SAID UTILITY IN CONFORMANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE COMMISSIONER (ENGINEER).

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADVANCED NOTICE OF WATER MAIN SHUT DOWN TO ALL AFFECTED CONSUMERS.

SCHEDULE OF QUANTITIES

CODE	PAY ITEM	UNIT	LOCATION NO. 1	LOCATION NO. 2
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	34	
20800150	TRENCH BACKFILL	CJ YD	10	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	13	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	13	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2	
44000100	PAVEMENT REMOVAL	SQ YD	13	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	16	
56103400	DUCTILE IRON WATER MAIN 16"	FOOT	335	
56103520	DUCTILE IRON WATER MAIN 24"	FOOT		433
56105000	WATER VALVES 8"	EACH		1
56105300	WATER VALVES 16"	EACH	1	
56105420	WATER VALVES 24"	EACH		1
X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	340	451
X0327073	STEEL CASING PIPE, BORED AND JACKED, 42"	FOOT		290
20073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	364	
	STEEL CASING PIPE, BORED AND JACKED, 30"	FOOT	282	

CHICAGO DEPARTMENT OF WATER (WATER MAIN INSTALLATION NOTES) (CONT.)

WORK WITHIN STATE ROUTES ARE NOTED ON THE DRAWINGS AND WILL REQUIRE IDOT, REGION 1, UTILITY PERMITS. THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS, INITIATED BY THE DEPARTMENT AND OBTAINING PERFORMANCE BONDS. ALL WORK MUST BE IN ACCORDANCE WITH IDOT PERMIT REQUIREMENTS. QUESTIONS SHOULD BE DIRECTED TO IDOT REGION ONE UTILITIES COORDINATOR AT (847) 705-4258.

ABANDON EXISTING WATER MAINS IN ACCORDANCE WITH THE SPECIFICATIONS.

SWAB PIPE -FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION DURING INSTALLATION. USE EXTRA PRECAUTION TO PREVENT SOIL DEBRIS FROM ENTERING THE PIPE. INCORPORATE UNTESTED PIPE INTO THE FLUSHING ROUTINE WHEN POSSIBLE. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM.

USE OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS. PERFORM INSPECTION PRIOR TO BACKFILLING. COMPLY WITH ALL STANDARDS AND REQUIREMENTS OF THE BUREAU OF WATER QUALITY (312) 744-8190.

CONTACT BILL DOYLE AT (312) 217-1636 TWO (2) WEEKS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION DATE SUCH THAT A RESIDENT ENGINEER CAN BE ASSIGNED TO THIS PROJECT. FAILURE TO COMPLY WITH THIS REQUIREMENTS MAY RESULT IN ADDITIONAL EXPENSES TO THE PROPOSED PROJECT TO VERIFY THAT ALL WORK CONFORMS TO DWM'S STANDARDS.

THE CONTRACTOR MUST COORDINATE WITH THE DWM, PRIOR TO THE SUBMISSION OF THE SHOP DRAWINGS FOR ALL MATERIALS TO BE USED, TO ENSURE CURRENT REQUIREMENTS ARE BEING MET.

THE CONTRACTOR MUST OBTAIN A "B-PERMIT" PRIOR TO CONSTRUCTION FROM THE CITY OF CHICAGO, DEPARTMENT OF BUILDINGS, PLUMBING PERMIT & PLAN SECTION, CITY HALL, 121 N La SALLE STREET, ROOM 906.

ALL VALVE OPERATIONS ARE TO BE COMPLETED BY THE DWM.

IF CONSTRUCTION REQUIRES THE USE OF WATER FROM A CITY FIRE HYDRANT, PERMITS MUST BE OBTAINED FROM THE CITY OF CHICAGO, DEPARTMENT OF BUILDINGS, PLUMBING PERMIT & PLAN SECTION, CITY HALL, 121 N La SALLE STREET, ROOM 906.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING-OUT ALL PROPOSED HORIZONTAL AND VERTICAL FACILITIES FOR THE DWM AS REQUIRED FOR CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS, EXCAVATION/OSHA SHORING, BACKFILLING/COMPACTION, AND ALL RESTORATION TO CDOT STANDARDS AS REQUIRED FOR CONSTRUCTION PER THE DWM INVOLVEMENT LETTER FOR THIS PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER SERVICES AND FIRE PROTECTION DURING CONSTRUCTION.

THE CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES.

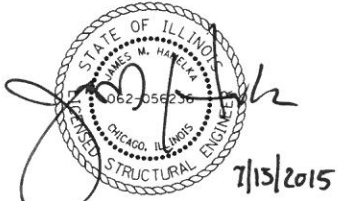
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL THE UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS, AND/OR VERIFYING THAT ANY UTILITY IN CONFLICT WITH THE PROPOSED WATER MAIN HAS BEEN RELOCATED.

THE CONTRACTOR SHALL PROVIDE THE DWM WITH TWO COPIES OF A REDLINE MARKED-UP AS-BUILT DRAWING OF THE WATER MAIN INSTALLATION WITH ANY DESIGN CHANGES THAT HAVE BEEN MADE. THIS DRAWING SHALL NOTE EXACT LOCATIONS OF THE WATER MAINS, VALVES, FITTINGS, CONNECTIONS TO EXISTING WATER MAINS, SERVICES, AND ANY SPECIAL INSTALLATIONS. LOCATIONS SHALL BE REFERENCED TO STREET RIGHT-OF-WAYS, AND THE DEPTH OF COVER SHALL ALSO BE INDICATED. THE AS-BUILT SHALL BE SIGNED AND DATED BY THE CONTRACTORS PROJECT COORDINATOR, ALONG WITH THEIR CONTACT INFORMATION.

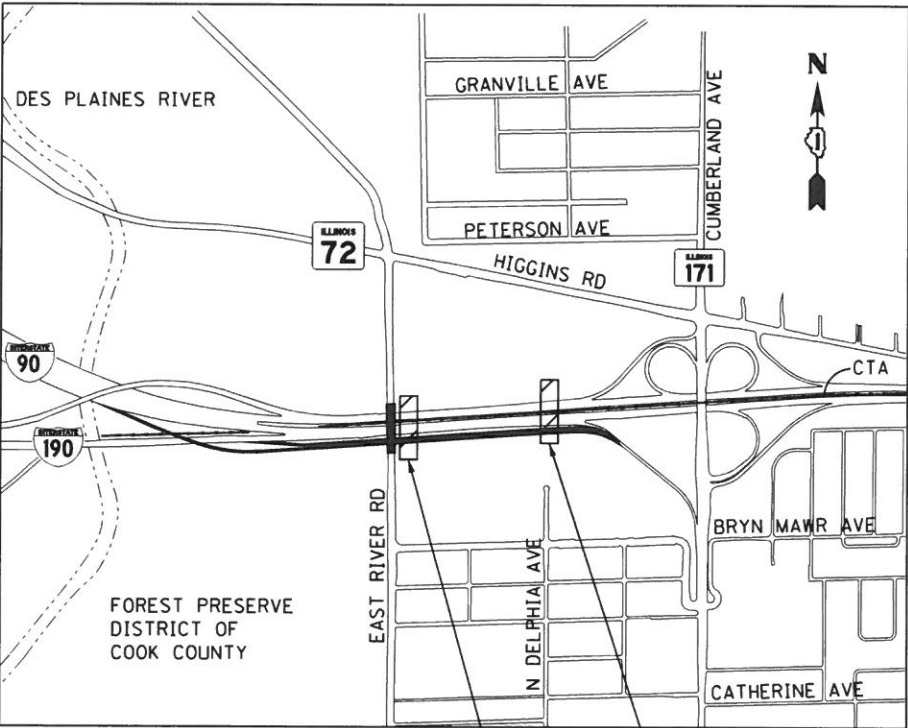
BILL OF MATERIALS

298' OF 16" DI RESTRAINED JOINT PIPE
37' OF 16" DI PIPE
309' OF 24" DI RESTRAINED JOINT PIPE
124' OF 24" DI PIPE
282' OF 30" STEEL CASING PIPE
290' OF 42" STEEL CASING PIPE
3-16" 2BRJ 1/8 BENDS
1-16" 1BRJ 1/8 BEND
2-16" 2BMJ 1/16 BENDS
4-24" 2BRJ 1/8 BENDS
4-24" 2BRJ 1/32 BENDS
2-16" MJ TRANSITION SLEEVE
2-24" MJ TRANSITION SLEEVE
1-16"x8" 3BMJ TEE CONNECTION
1-24"x12" 3BMJ TEE CONNECTION
1-12"x8" REDUCER
1-16"x8" REDUCER
2-PITOMETER IN BASING WITH 2" TEST TAP
2-TEMPORARY FIRE HYDRANTS



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 062-056236
EXPIRES 11-30-2015

FOR WATER MAIN PLANS ONLY



LOCATION NO. 1
LOCATION NO. 2

COLLINS
ENGINEERS

USER NAME : rgal
PLOT SCALE : 50.0000' / 1in.
PLOT DATE : 7/15/2015

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
GENERAL NOTES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. SECTION COUNTY TOTAL SHEET SHEET NO.
RTE. 190 1617B(13) COOK 223 52
CONTRACT NO. 62A64
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	PLOTTED	CHECKED	FILED	DATE
NOTE BOOK NO.					
CADD FILE NAME					

PROFILE	SURVEYED	PLOTTED	CHECKED	FILED	DATE
NOTE BOOK NO.					
STRUCTURE NOTATION CHKD					

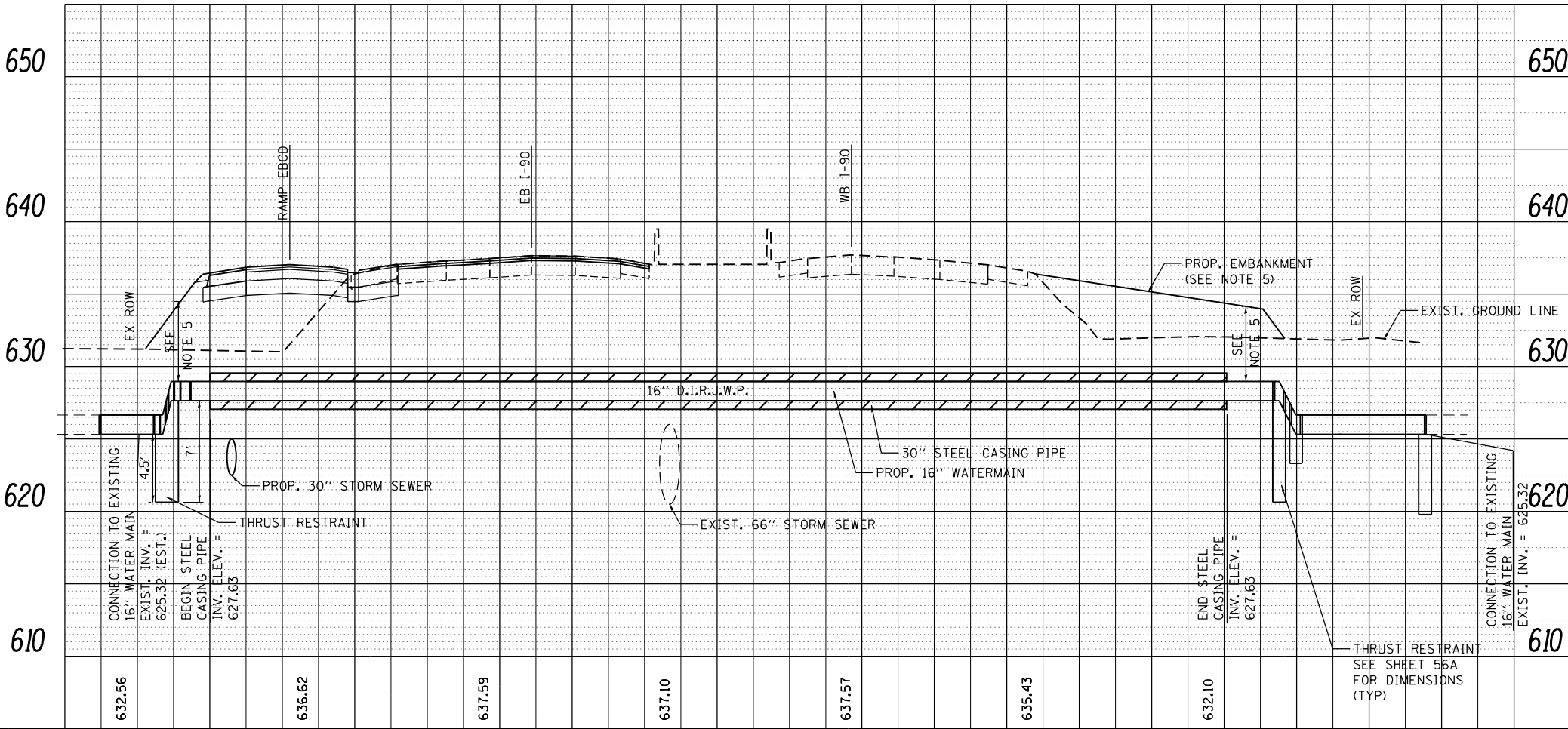
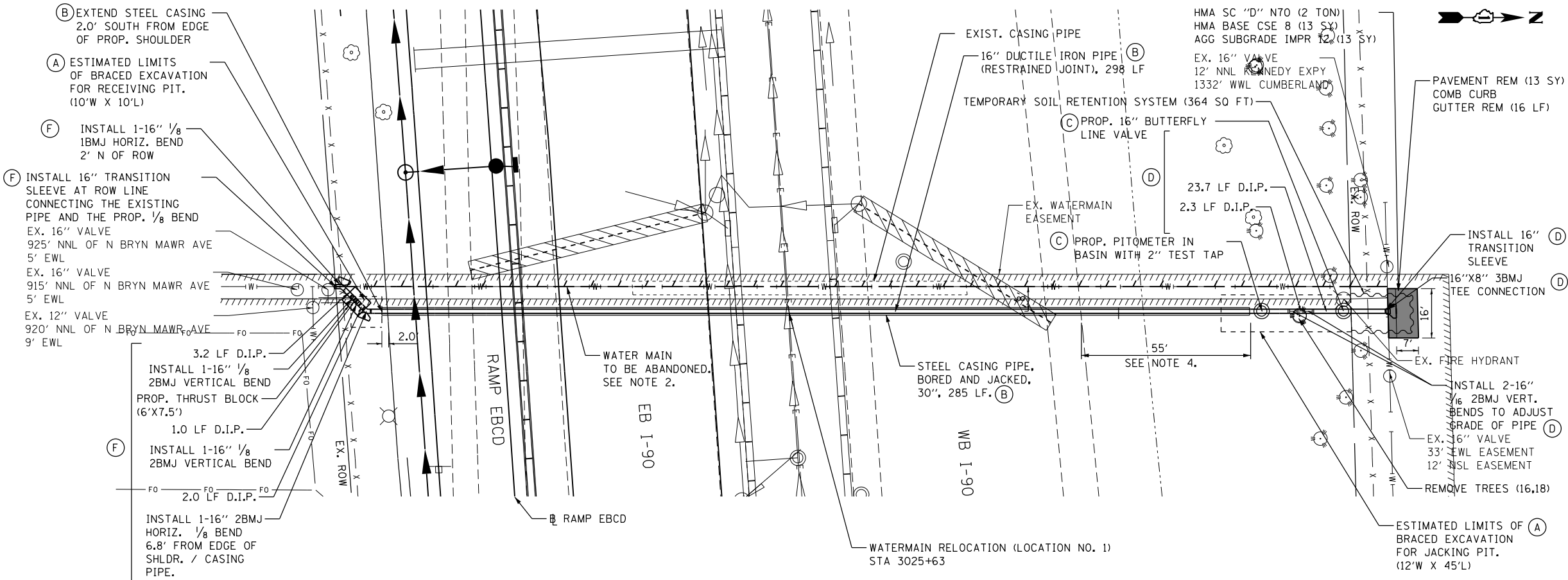
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WATERMAIN NOTES:

- CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) SHALL MAKE ALL FINAL CONNECTIONS TO EXISTING WATER MAINS.
- EXISTING WATER MAINS TO BE ABANDONED SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CDWM AND IEPA.
- CASING PIPE DESIGNED TO EXTEND 10' BEYOND FUTURE I-90 WB WIDENING.
- GRADE PROP. DITCH TO PROVIDE MIN. 5' COVER.
- THRUST BLOCKING SHALL BE USED AT ALL BENDS AS PER DETAILS SHOWN IN PLANS.
- THE 16" AND 24" WATER MAIN MAY NOT BE SHUT DOWN AT THE SAME TIME.
- THE TIE-IN INVERT OF THE EX. WATERMAIN IS OBTAINED FROM EXISTING PLANS AND IS APPROXIMATE. CONTRACTOR SHALL VERIFY PRIOR TO ORDERING MATERIALS AND MAKING FINAL CONNECTIONS.

CONSTRUCTION SEQUENCING NOTES:

- INSTALL JACKING AND RECEIVING PITS.
- INSTALL 16-INCH WATER MAIN WITHIN STEEL CASING PIPE WITH:
283' OF 30" STEEL CASING PIPE AND 298' OF 16" D.I.R.J.W.P.
FROM 7' EAST AND 14' NORTH OF THE EXISTING 16-INCH LINE VALVE AT THE SOUTH END (LOCATED 925'>NNL OF N BRYN MAWR AVENUE, 5' EWL EASEMENT) TO 21' WEST AND 33' SOUTH OF THE EXISTING 16-INCH LINE VALVE AT THE NORTH END (LOCATED 12' NSL EASEMENT, 33' EWL EASEMENT). CAP AND BRACE THE ENDS OF THE NEW 16" WATER MAIN WITH 2-16" MJ CAPS.
- INSTALL 16-INCH BUTTERFLY LINE VALVE AT THE NORTH END APPROXIMATELY 15' SOUTH AND 20' WEST OF THE EXISTING 16-INCH LINE VALVE AT THE NORTH END (LOCATED 12' NSL EASEMENT, 33' EWL EASEMENT). INSTALL PITOMETER BASIN AT HIGH POINT ON THE NORTH END. INSTALL TEMPORARY FIRE HYDRANT AT THE SOUTH END FOR FLUSHING WITH:
1 - 16" X 8" REDUCER
- REMOVE THE NORTH TEMPORARY CAP AND CONNECT TO THE EXISTING 16-INCH MAIN TO THE NORTH AND WITH:
26' OF 16" D.I.R.J.W.P.
2-16" X 1/32 2BMJ VERTICAL BENDS AT 21' WEST, 31.2' SOUTH AND 21' WEST, 26.4' SOUTH OF THE EXISTING 16-INCH LINE VALVE AT THE NORTH END (LOCATED 12' NSL EASEMENT, 33" EWL EASEMENT).
1-16" TRANSITION SLEEVE
1-16"x8" 3BMJ TEE CONNECTION AND THRUST BLOCK; REMOVE AND REPLACE EXISTING CURB AND GUTTER AND HMA PAVEMENT REQUIRED FOR INSTALLATION
RESTRAIN ALL JOINTS
- FLUSH NORTH TO SOUTH THROUGH THE TEMPORARY FIRE HYDRANT AT THE SOUTH END. PRESSURE TEST, AND CHLORINATE WITH NEW 16-INCH WATER MAIN SEGMENT THROUGH THE TEMPORARY FIRE HYDRANT PER DWM-WATER QUALITY SECTION.
- ONCE THE NEW WATER MAIN IS APPROVED BY DWM, REMOVE THE TEMPORARY FIRE HYRANT AND CONNECT THE EXISTING 16-INCH MAIN TO THE SOUTH WITH:
8' OF 16" D.I.R.J.W.P.
2-16" X 1/8 2BMJ HORIZONTAL BENDS AND THRUST BLOCKS AT 1' WEST, 4.8' NORTH AND 7' EAST, 12' NORTH OF THE EXISTING 16-INCH LINE VALVE AT THE SOUTH END (LOCATED 925'>NNL OF N BRYN MAWR 5' EWL EASEMENT).
2-16" X 1/32 2BMJ VERTICAL BENDS AT 3' EAST, 8' NORTH AND 5' EAST, 10' NORTH OF THE EXISTING 16-INCH LINE VALVE AT THE SOUTH END (LOCATED 925'>NNL OF N BRYN MAWR, 5' EWL EASEMENT).
1-16" TRANSITION SLEEVE
RESTRAIN ALL JOINTS
FLUSH SOUTH TO NORTH THROUGH THE NEW 16-INCH LINE VALVE TAPS PER DWM-WATER QUALITY SECTION.
- IF EXISTING 16" LINE VALVE DOES NOT HAVE A TEST TAP, THEN ONE SHALL BE INSTALLED IN THE EXISTING BASIN.



COLLINS
ENGINEERS

USER NAME = rgo11
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PLOT SCALE = 20.0000' / in.
PLOT DATE = 7/15/2015

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DATE -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
LOCATION NO. 1

SCALE: SHEET OF SHEETS STA. TO STA.

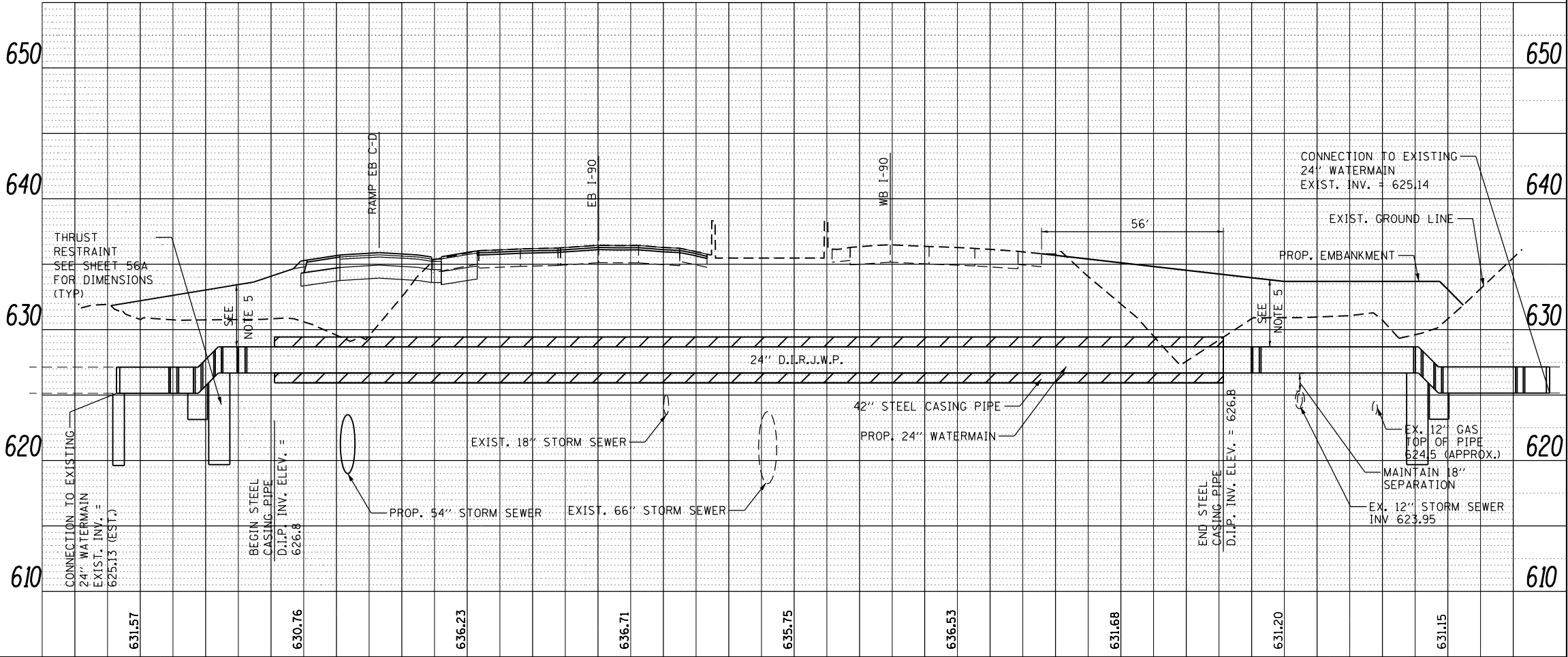
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1617B(13)	COOK	223	53
CONTRACT NO. 62A64				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

WATERMAIN NOTES:

- CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) SHALL MAKE ALL FINAL CONNECTIONS TO EXISTING WATER MAINS.
- EXISTING WATER MAINS TO BE ABANDONED SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- SEPARATION BETWEEN WATER MAINS AND SEWERS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CDWM AND IEPA.
- CASING PIPE DESIGNED TO EXTEND 10' BEYOND FUTURE I-90 WB WIDENING.
- GRADE PROP. DITCH TO PROVIDE MIN. 5' COVER.
- THRUST BLOCKING SHALL BE USED AT ALL BENDS AS PER DETAILS SHOWN IN PLANS.
- THE 16" AND 24" WATER MAIN MAY NOT BE SHUT DOWN AT THE SAME TIME.
- FOR CONSTRUCTION SEQUENCING NOTES SEE SHEET 54A.



COLLINS
ENGINEERS

USER NAME = rgo11	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/15/2015	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
LOCATION NO. 2

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62A64				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

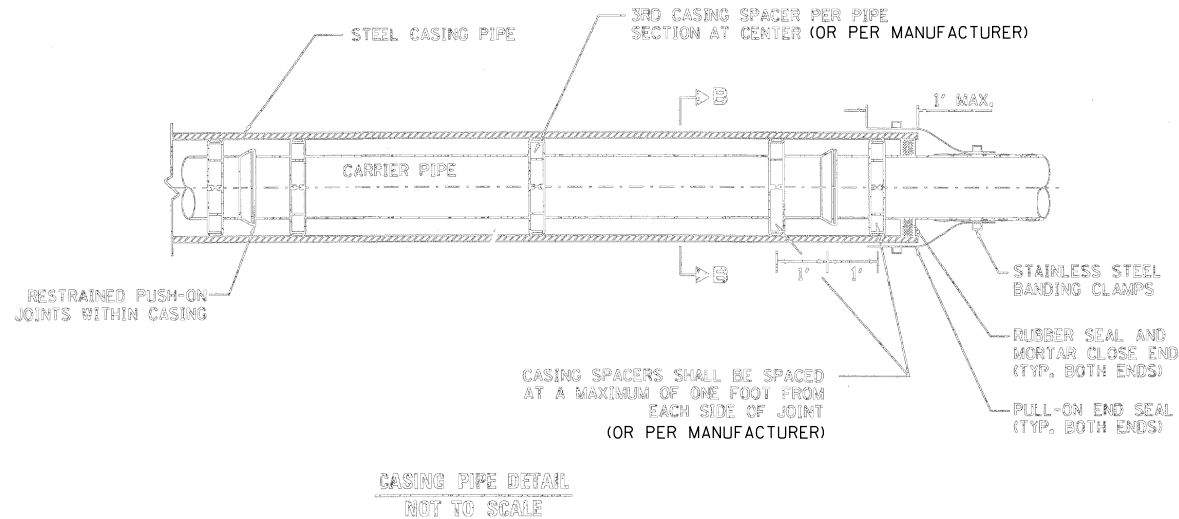
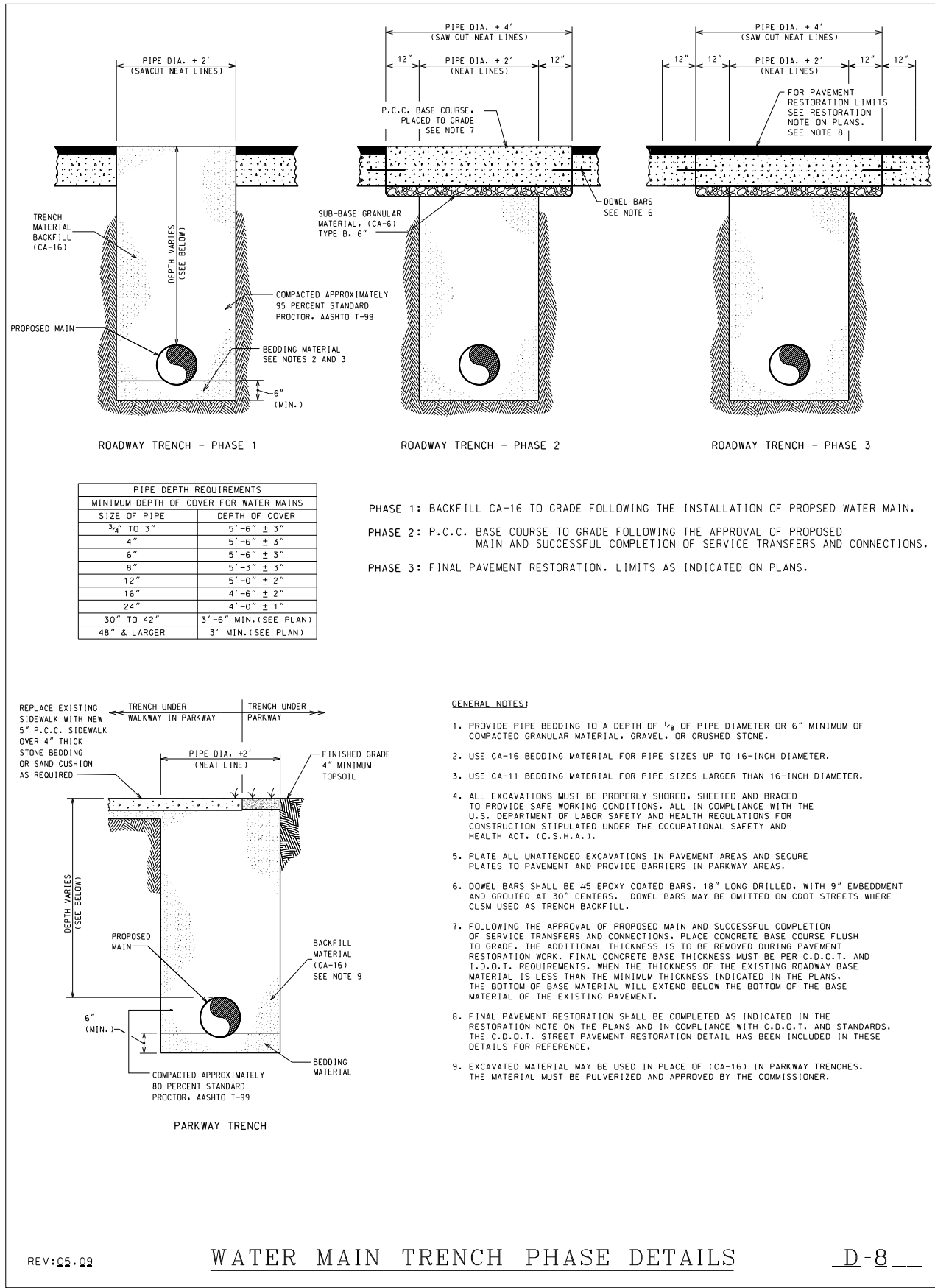
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NOTE BOOK NO.	CADD FILE NAME		

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	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO.			

CONSTRUCTION SEQUENCING NOTES:

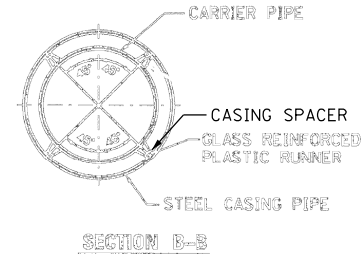
- A. INSTALL JACKING AND RECEIVING PITS.
- B. INSTALL 24-INCH BUTTERFLY LINE VALVE ON EXISTING 24-INCH WATER MAIN AT THE SOUTH END.
INSTALL 24-INCH WATER MAIN WITHIN STEEL CASING PIPE WITH:
290' OF 42" STEEL CASING PIPE AND 308.5' OF 24" D.I.R.J.W.P. FROM 24' EAST AND 33.5' NORTH OF THE EXISTING 8-INCH SERVICE VALVE TO THE CTA TUNNEL AT THE SOUTH END TO 57' EAST AND 79.5' SOUTH OF THE EXISTING 8-INCH FIRE CISTERN VALVE BASIN AT THE NORTH END. CAP AND BRACE THE ENDS OF THE NEW 24" WATER MAIN WITH 2-24" MJ CAPS.
- C. INSTALL ONE (1) 2-INCH TEST TAP IN BASIN AT THE HIGHEST POINT AT THE NORTH END AT 57' EAST AND 83.7' SOUTH OF THE EXISTING 8-INCH FIRE CISTERN VALVE BASIN. INSTALL TEMPORARY FIRE HYDRANT OFF THE EXISTING FIRE CISTERN LOCATED AT APPROXIMATELY 5' SN ROW LINE AND 43' WEL.
- D. PRESSURE TEST NEW 24-INCH WATER MAIN. ONCE APPROVED BY DWM, MAKE ALL FINAL CONNECTIONS WITHIN 8 HOURS:
REMOVE THE NORTH TEMPORARY CAP AND CONNECT TO THE EXISTING 24-INCH MAIN TO THE NORTH WITH:
86' OF 24" D.I.R.J.W.P.
2-24" X 1/8 2BMJ HORIZONTAL BENDS AND THRUST BLOCKS AT 57' EAST, 78' SOUTH AND 3.3' WEST, 23.5' SOUTH OF THE EXISTING 8-INCH FIRE CISTERN BASIN.
2-24" X 1/32 2BMJ VERTICAL BENDS AT 20.5' EAST, 44.5' SOUTH AND 15.7' EAST, 40.4' SOUTH OF THE EXISTING 8-INCH FIRE CISTERN VALVE BASIN.
1-24" TRANSITION SLEEVE
1-24" MJ CAP
RESTRAIN ALL JOINTS
REMOVE THE SOUTH TEMPORARY CAP AND CONNECT TO THE EXISTING 24-INCH MAIN THE SOUTH AND WITH:
34' OF 24" D.I.R.J.W.P.
2-24"X 1/8 2BMJ HORIZONTAL BENDS AND THRUST BLOCKS AT 8' EAST, 16.6' NORTH AND 22' EAST, 32' NORTH OF THE EXISTING 8-INCH CTA SERVICE VALVE.
24"X 1/32 2BMJ VERTICAL BENDS AT 13' EAST, 22' NORTH AND 17' EAST, 26.5' NORTH OF THE EXISTING 8-INCH CTA SERVICE VALVE.
1-24" TRANSITION SLEEVE
1-24" MJ CAP
RESTRAIN ALL JOINTS
RECONNECT EXISTING 8-INCH CTA SERVICE WITH:
1-24"X12" TEE CONNECTION
1-12"X8" REDUCER
1-8" WEDGE VALVE
- FLUSH AND CHLORINATE SOUTH TO NORTH THROUGH THE TEMPORARY FIRE HYDRANT AT THE NORTH END
- E. PER DWM-WATER QUALITY SECTION. MUST COORDINATE SHUT DOWN WITH ALL AFFECTED WATER SERVICES.
- ONCE APPROVED BY THE DWM, REMOVE THE TEMPORARY FIRE HYDRANT AT THE NORTH END. ABANDON OR
- F. REMOVE TEMPORARY FIRE CISTERN. ASSEMBLY AND REBUILD FIRE CISTERN BASIN AT 5' SN ROW AND 43' WEL.

FILE NAME = 8FILE\$



NOTES:

1. ACCESS PITS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE ROADWAY EDGE OF PAVEMENT.
2. SHORING SHALL BE INSTALLED IMMEDIATELY DURING THE EXCAVATION OF THE ACCESS PITS AND SHALL CONFORM TO OSHA STANDARDS FOR TRENCH PROTECTION.
3. SHORING SHALL BE DESIGNED, ERECTED, SUPPORTED, AND BRACED, AND MAINTAINED SUCH THAT IT WILL SAFELY SUPPORT ALL VERTICAL AND HORIZONTAL LOADS DURING CONSTRUCTION OPERATIONS.
4. OPEN ACCESS PITS SHALL BE CLEARLY MARKED AND REMAIN PROTECTED WITH TEMPORARY CONCRETE BARRIERS AT ALL TIMES.
5. BACKFILL PITS WITH CA-16 AND COMPACT.
6. ALL CASING PIPES MUST BE SMOOTH WELDED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A139, GRADE B. THE EXTERIOR OF THE CASING PIPE MUST HAVE COAL-TAR ENAMEL IN ACCORDANCE WITH AWWA C203 AND A THICKNESS AS SPECIFIED IN THE PLANS.
7. SPACERS FOR THE CARRIER PIPE MUST BE EITHER THE TWO-PIECE METAL BAND TYPE WITH 2-INCH WIDE NON-METALLIC RUNNERS OR UNITS MANUFACTURED ENTIRELY OUT OF HIGH-DENSITY POLYETHYLENE. ON TWO-PIECE METAL BAND TYPE SPACERS, BANDS AND FASTENERS MUST BE RATED FOR HEAVY DUTY SERVICE, MANUFACTURED BY (PSI) PIPELINE SEAL AND INSULATOR, INCORPORATED; CASCADE WATERWORKS MANUFACTURING COMPANY, OR RACI SPACERS NORTH AMERICA.
8. PRIOR TO INSERTION OF CASING, EACH LENGTH OF PIPE MUST BE SUPPORTED ON CASING SPACERS IN SUCH A MANNER THAT AT NO TIME WILL THE WEIGHT OF THE PIPE BEAR ON THE BELL OR ANY PART OF THE PIPE TOUCH THE CASING.
9. ALL PIPES MUST BE JOINTED PRIOR TO BEING PUSHED OR PULLED THROUGH THE CASING PIPE. AFTER PLACEMENT OF THE CARRIER PIPE THROUGH THE CASING, THE ENDS OF THE CASING ARE TO BE SEALED WITH BRICK AND MORTAR, OR RUBBER END SEAL OR OTHER APPROVED METHOD AND MUST BE COMPLETELY LEAK-TIGHT.



REV:05.09

WATER MAIN TRENCH PHASE DETAILS

D-8

COLLINS
ENGINEERS

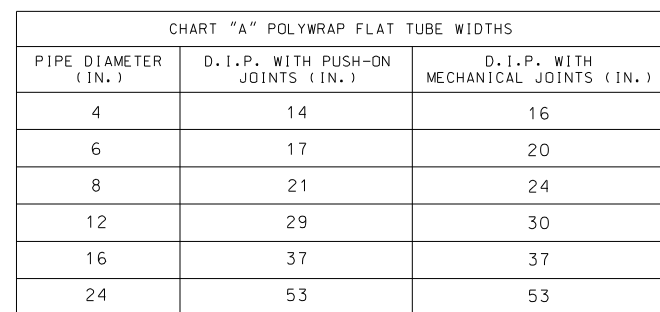
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PLOT DATE = 7/15/2015	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

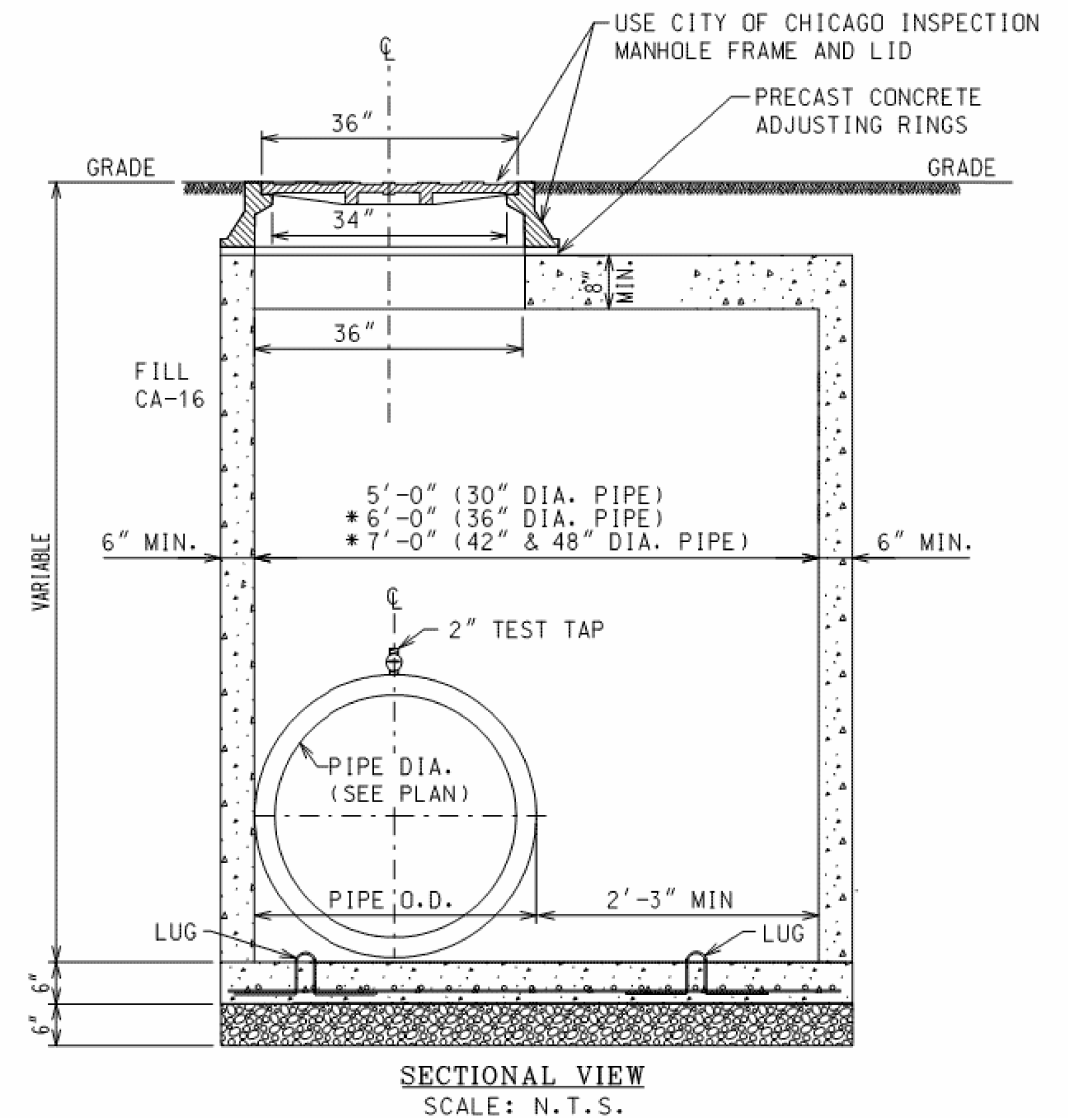
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1617B(13)	COOK	223	56
CONTRACT NO. 62A64				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



1. USE ONE LENGTH OF POLYETHYLENE TUBE WRAP FOR EACH LENGTH OF PIPE, OVERLAPPED AT PIPE JOINTS AND FOLD EXCESS OVER TOP OF TUBE FOR SLACK REDUCTION.
2. USE CHART "A" TO SELECT SIZE OF WRAP.

WATER MAIN
POLYETHYLENE WRAP DETAIL

D-10



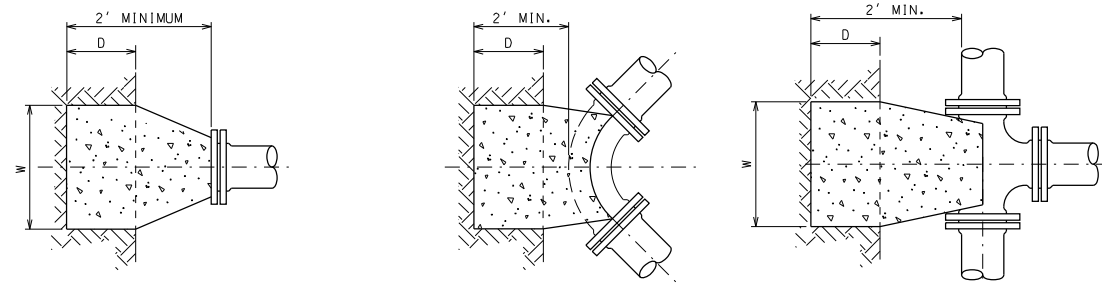
NOTE:

1. PROVIDE 6" THICK COMPACTED CA-16 BEDDING
2. USE PRECAST CONCRETE BASE OR PROVIDE 6" THICK IDOT CLASS 'SI' CONCRETE BASE POURED IN PLACE WITH #4 EPOXY COATED REBARS 4" C/C BOTH WAYS.
3. PROVIDE FOUR #4 REBAR LUGS FOR HANDLING. CUT THE LUGS AFTER PLACING THE SLAB IN POSITION.
4. PRECAST CONCRETE TOP SLAB TO BE USED WHERE HEAD ROOM IS REQUIRED.
5. THE LOCATION OF MANHOLE TO BE DETERMINED ON INDIVIDUAL BASIS.
- * 6. OPENING ON TOP SLAB TO BE CENTERED OVER TEST TAP.

PITOMETER TAP BASIN
PRECAST CONCRETE

FM-4

REV: 07.07



PLAN VIEW

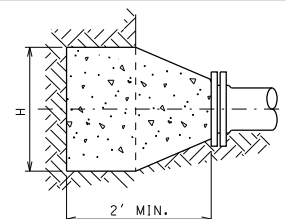
DEAD END THRUST BLOCK

PLAN VIEW

BEND THRUST BLOCK

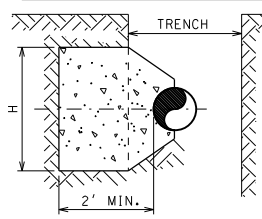
PLAN VIEW

TEE THRUST BLOCK



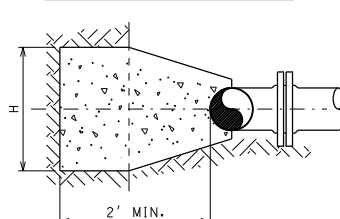
PROFILE

DEAD END THRUST BLOCK



PROFILE

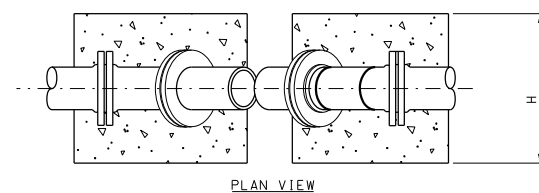
BEND THRUST BLOCK



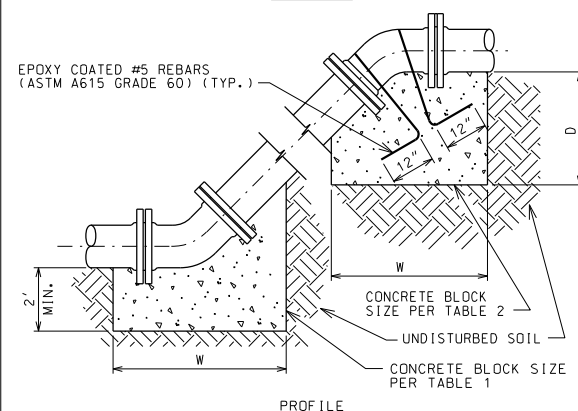
PROFILE

TEE THRUST BLOCK

HORIZONTAL THRUST BLOCK DETAILS



PLAN VIEW



PROFILE

VERTICAL THRUST BLOCK DETAILS

THRUST RESTRAINT

CONCRETE THRUST BLOCK DETAILS

REV:04.07

D - 11

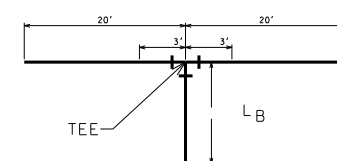
TABLE 3

PIPE SIZE	DEAD END & TEE				HORIZONTAL 1/8 BEND				VERTICAL 1/32 BEND TOP				VERTICAL 1/32 BEND BOTTOM			
INCH DIA.	D	H	W	CY	D	H	W	CY	D	H	W	CY	D	H	W	CY
24	2	9.58	9.5	6.74	1.75	8.5	8.5	6.5	7	7.5	7	11	2	4.5	4	2.25

NOTE: USE TABLE 3 FOR 24" THRUST BLOCK SIZES.

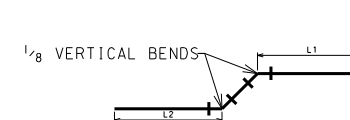
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	DATE -	REVISED -



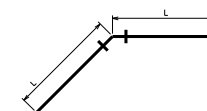
TEE SIZE	L _B
8" x 8" : (8", 12", 16" OR 24") x 12"	0
16" x 16"	42'
36" x 24"	277'

HORIZONTAL TEES - LENGTH OF RESTRAINED JOINTS



		L1	L2
PIPE SIZE	8"	26'	26'
	12"	37'	11'
	16"	67'	20'
	24"	67'	20'

1/8 VERTICAL BENDS - LENGTH OF RESTRAINED JOINTS



		DISTANCE OF RESTRAINED JOINTS REQUIRED EITHER SIDE OF BENDS			
		L			
		BEND SIZES			
		$\frac{1}{32}$	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{1}{4}$
PIPE SIZE	8"	3'	6'	12'	29'
	12"	4'	8'	17'	41'
	16"	7'	15'	30'	73'
	24"	7'	15'	30'	73'

HORIZONTAL BENDS - LENGTH OF RESTRAINED JOINTS

NOTE:

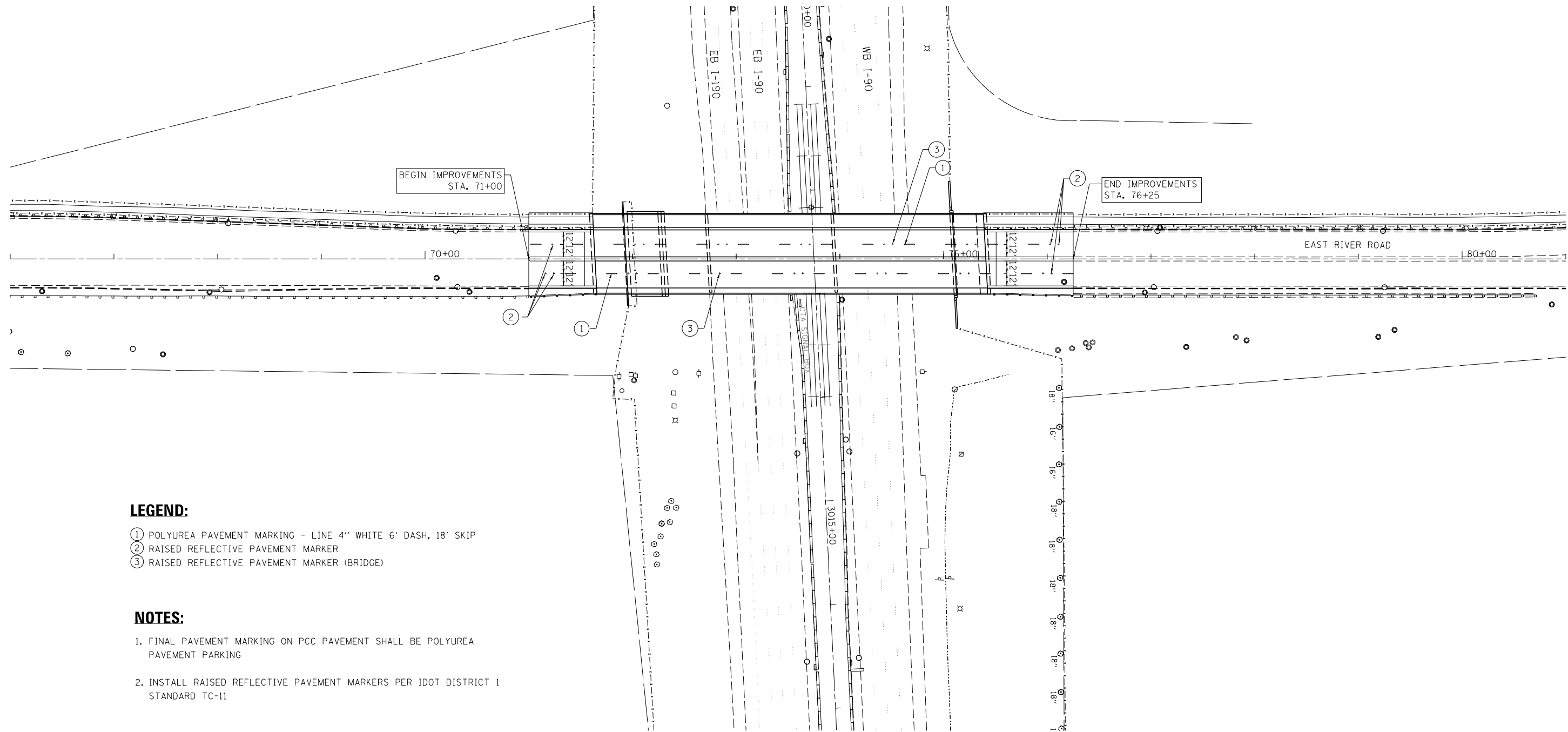
1. MINIMUM LENGTHS OF PIPE REQUIRED TO RESTRAIN FITTINGS SHOWN.
2. LENGTHS BASED ON POLY-WRAPPED PIPE.

THRUST RESTRAINT

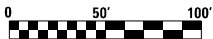
RESTRAINED JOINT PIPE DETAILS

REV:06.10

D -12



- LEGEND:**
- ① POLYUREA PAVEMENT MARKING - LINE 4" WHITE 6' DASH, 18' SKIP
 - ② RAISED REFLECTIVE PAVEMENT MARKER
 - ③ RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)
- NOTES:**
- 1. FINAL PAVEMENT MARKING ON PCC PAVEMENT SHALL BE POLYUREA PAVEMENT PARKING
 - 2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS PER IDOT DISTRICT 1 STANDARD TC-11



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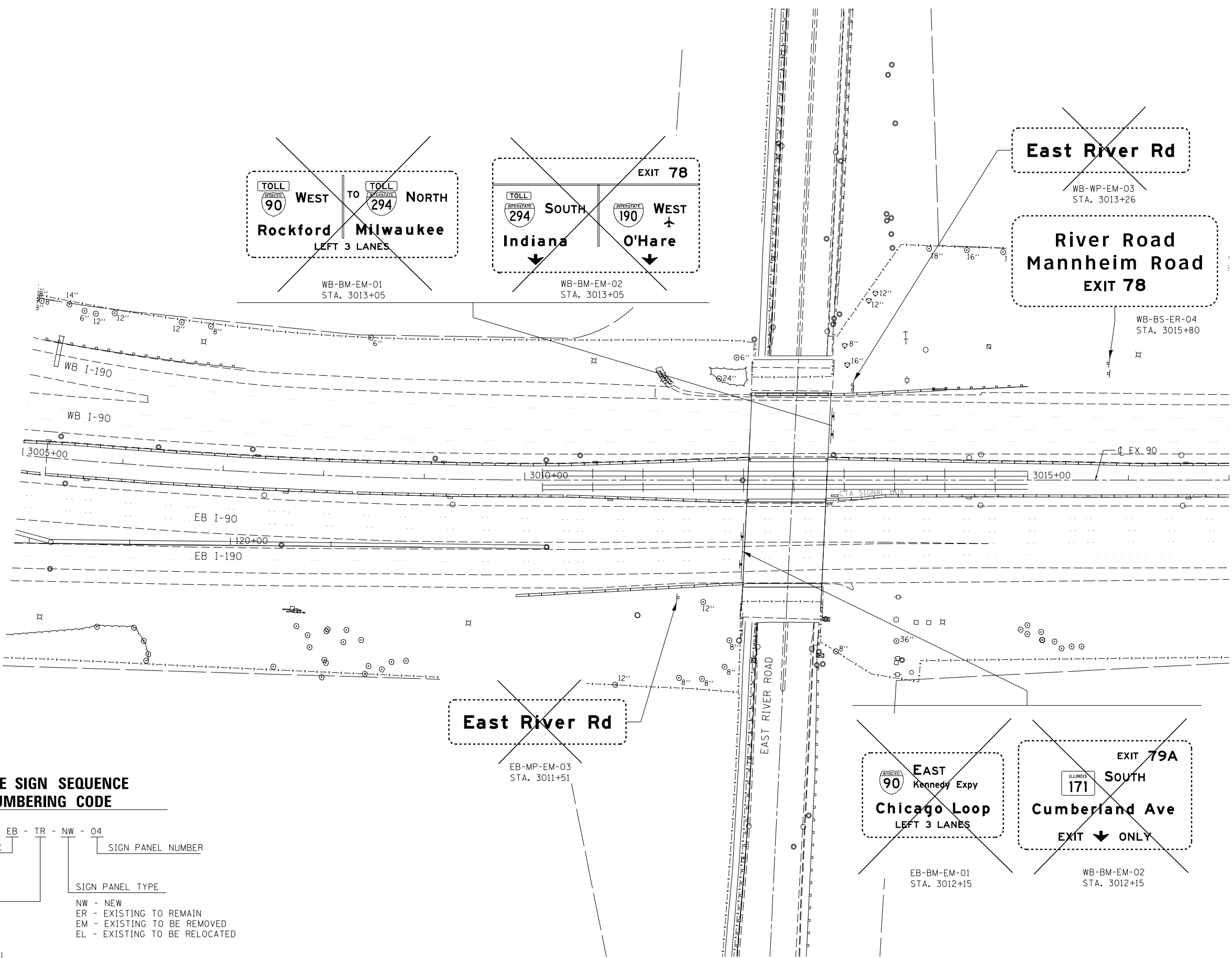
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
EAST RIVER ROAD

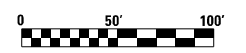
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	58
CONTRACT NO. 62A64				PMK-01
ILLINOIS FED. AID PROJECT				



**GUIDE SIGN SEQUENCE
NUMBERING CODE**

DIRECTION OF TRAFFIC		SIGN PANEL NUMBER	
EB - EASTBOUND	WB - WESTBOUND	SIGN PANEL TYPE	
MOUNTING TYPE		NW - NEW	ER - EXISTING TO REMAIN
TR - TRUSS		CL - CANTILEVER	EM - EXISTING TO BE REMOVED
BM - BRIDGE MOUNTED		WP - WOOD POST	EL - EXISTING TO BE RELOCATED
BS - BREAKAWAY STEEL		LP - LIGHTPOLE	
MP - METAL POST			



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
EXISTING**

SCALE: 1" = 50'	SHEET 1	OF 3 SHEETS	STA.	TO STA.
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F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90		1617B(13)	COOK	223	60
CONTRACT NO. 62A64					
ILLINOIS FED. AID PROJECT					

SGN-01

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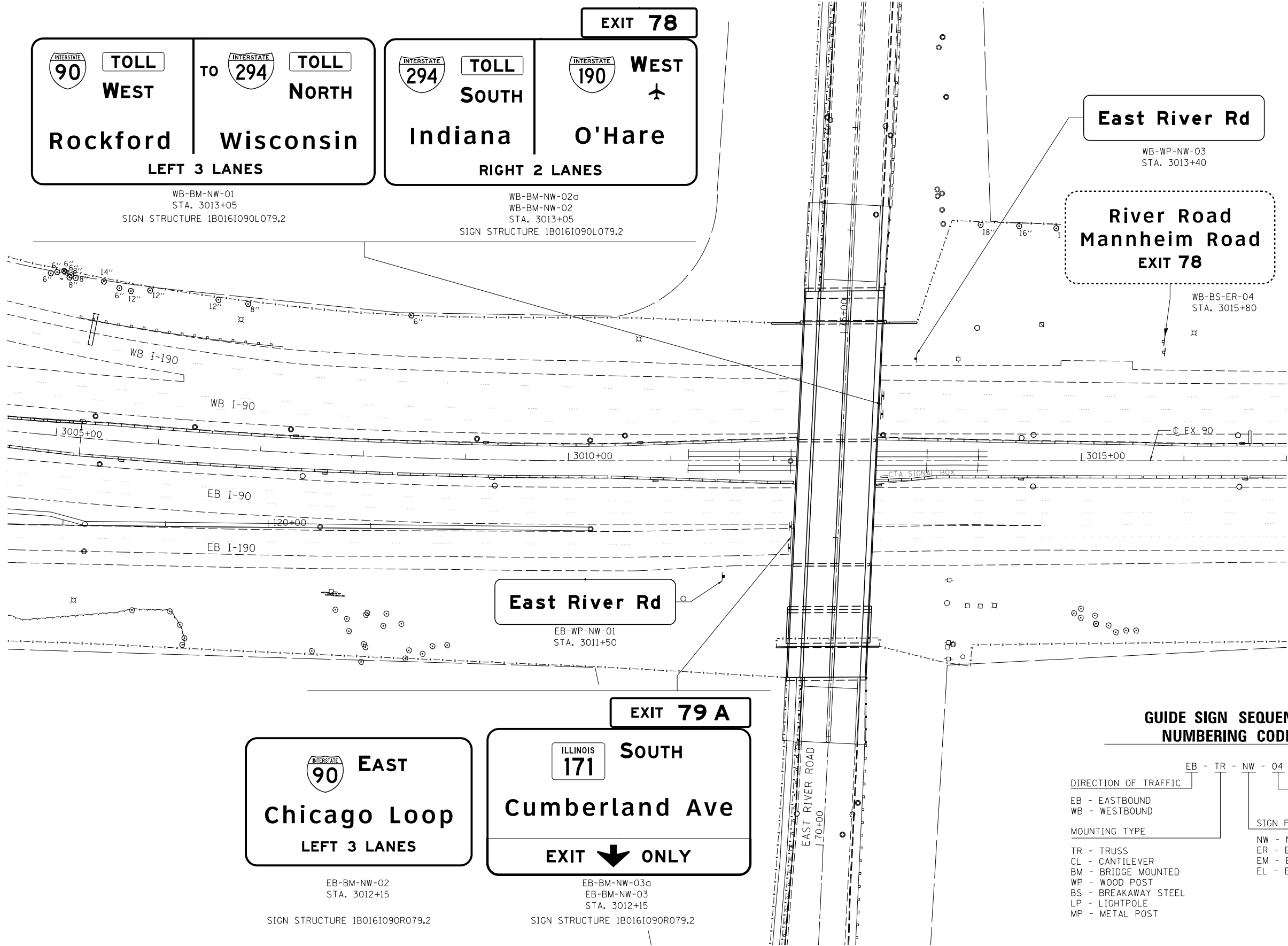
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PLOT DATE = 6/25/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS
PROPOSED

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 71+00.00 TO STA. 76+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	61
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				



GUIDE SIGN SEQUENCE
NUMBERING CODE

DIRECTION OF TRAFFIC	EB - TR - NW - 04	SIGN PANEL NUMBER
EB - EASTBOUND WB - WESTBOUND		
MOUNTING TYPE	SIGN PANEL TYPE	
TR - TRUSS CL - CANTILEVER BM - BRIDGE MOUNTED WP - WOOD POST BS - BREAKAWAY STEEL LP - LIGHTPOLE MP - METAL POST	NW - NEW ER - EXISTING TO REMAIN EM - EXISTING TO BE REMOVED EL - EXISTING TO BE RELOCATED	



SGN-02

FILE NAME : z:\m162456\hntb\org\Pk\creat\lakes\Documents\Chicago Projects\30120 1-198 Cumberland\Design\CADD\Contract\62464\CA00_Sheets\0162464-sh-t-sign-03.dgn

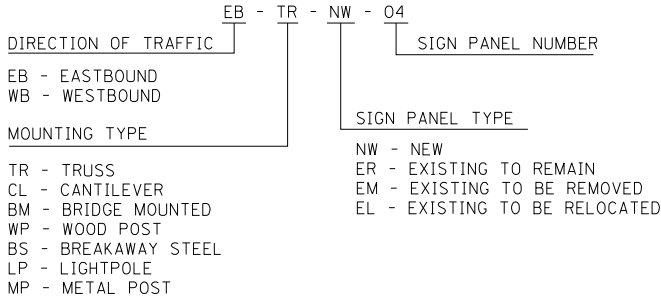
EXISTING SIGNING SCHEDULE

SIGN NO.	STATION	OFFSET	BASELINE	LEGEND / DESCRIPTION			72400100	72400200	72400310	72400320	72400330	73602000
					SIGN PANEL DIMENSION	SIGN PANEL DIMENSION	REMOVE SIGN PANEL-TYPE A ASSEMBLY	REMOVE SIGN PANEL-TYPE B ASSEMBLY	REMOVE SIGN PANEL TYPE 1	REMOVE SIGN PANEL TYPE 2	REMOVE SIGN PANEL TYPE 3	REMOVE OVH SIGN STRUCTURE BRIDGE MOUNTED
					WIDTH (FT)	HEIGHT (FT)	(EACH)	(EACH)	(SQ FT)	(SQ FT)	(SQ FT)	(EACH)
WB-BM-EM-01	3013+05		EX 90	TOLL I 90, WEST, ROCKFORD, TO TOLL 294, NORTH, MILW.	27.0	10.5						1
WB-BM-EM-02	3013+05		EX 90	TOLL I 294, SOUTH, INDIANA, I 190 WEST, O'HARE	27.5	12.0						
WB-WP-EM-03	3013+26	92' LT	EX 90	EAST RIVER RD	8.5	2.0		1				
WB-BS-ER-04	3015+80	111' LT	EX 90	RIVER ROAD, MANNHEIM ROAD, EXIT 78	10.0	6.0						
EB-BM-EM-01	3012+15		EX 90	EAST, KENNEDY EXPY, I 90, CHICAGO LOOP, LEFT 3 LANES	18.0	10.0						1
EB-BM-EM-02	3012+15		EX 90	EXIT 79A,IL 171 SOUTH, CUMBERLAND AVE, EXIT ONLY	20.0	12.0						
EB-MP-EM-03	3011+51	117' RT	EX 90	EAST RIVER RD	5.0	1.5	1					
TOTALS							1	1	0	0	0	2

PROPOSED SIGNING SCHEDULE

SIGN NO.	STATION	OFFSET	BASELINE	LEGEND / DESCRIPTION			72000100	72000200	72000300	72900100	72900200	73000100	73304000
					SIGN PANEL DIMENSION	SIGN PANEL DIMENSION	SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	SIGN PANEL TYPE 3	METAL POST TYPE A	METAL POST TYPE B	WOOD SIGN POST	OVH SIGN STRUCTURE - BRIDGE MOUNTED
					WIDTH (FT)	HEIGHT (FT)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)
WB-BM-NW-01	3013+05		EX 90	TOLL I-90 WEST, ROCKFORD; TO TOLL I-294 NORTH, WISCONSIN	28.0	12.0			336.00				54
WB-BM-NW-02	3013+05		EX 90	TOLL I-294 SOUTH, INDIANA; I-190 WEST, O'HARE	25.5	12.0			306.00				
WB-BM-NW-02a	3013+05		EX 90	EXIT 78	9.5	2.5		23.75					
WB-WP-NW-03	3013+14	100' LT	EX 90	EAST RIVER ROAD	9.5	2.5		23.75				29	
EB-WP-NW-01	3011+50	114' RT	EX 90	EAST RIVER ROAD	9.5	2.5		23.75				29	
EB-BM-NW-02	3012+15		EX 90	I-90, EAST, CHICAGO	18.5	10.5			194.25				43
EB-BM-NW-03	3012+15		EX 90	NORTH, CUMBERLAND AVE, 1/2 MILE, EXIT ONLY	21.5	12.0			258.00				
EB-BM-NW-03a	3012+15		EX 90	EXIT 79B	11.5	2.5			28.75				
TOTALS							0	71.25	1123.00	0	0	58	97

GUIDE SIGN SEQUENCE
NUMBERING CODE



USER NAME : lsupencheck	DESIGNED - MA	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE : 1.0000 ' / in.	CHECKED - LLS	REVISED -
PLOT DATE : 7/2/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS
SCHEDULE OF QUANTITIES

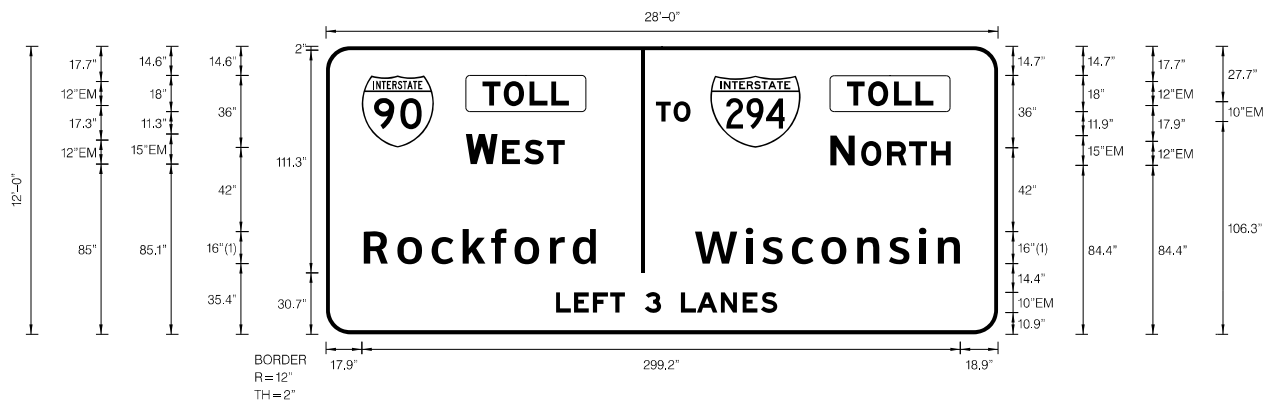
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SGN-03				
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	62
		CONTRACT NO. 62A64		
ILLINOIS		FED. AID PROJECT		

WB I-90 STA. 3013+05
SIGN STRUCTURE 1B016I090L079.2 (BRIDGE MOUNTED OVER I-90)

SIGN DETAIL

1:100



Panel Style: guide_fwy_OH_APL.ssi

Dimensions are in inches.tenths

FONT:
(1) ClearviewHwy-5-W

Letter locations are panel edge to lower left corner

SIGN NUMBER	WB-BM-NW-01
WIDTH x HGHT.	28'-0" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective (TYPE ZZ)
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective (TYPE ZZ)
	COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	17.9	93.4	36	36
M1_1	0	192.2	93.3	45	36

LETTER POSITIONS (X)																				LENGTH	SERIESSIZE
T	O	L	L																		EM 2000
78.3	88.9	101.8	112.6																	43.2	12
T	O	L	L																		EM 2000
260.4	271	284	294.8																	43.2	12
T	O																				EM 2000
165	173.8																			17.2	10
W	E	S	T																		EM 2000
69.9	88	99.1	110.6																	49.5	15,12
N	O	R	T	H																	EM 2000
252.2	267.6	280.5	291.6	302.6																60.1	15,12
R	o	c	k	f	o	r	d														ClearviewHwy-5-W
18.9	35.7	52.9	68.4	82.6	94.3	112.1	123.4													116.1	1613
W	i	s	c	o	n	s	i	n													ClearviewHwy-5-W
184.4	210	218.2	232.9	247.7	265.5	281.5	296.5	306												132.6	1613
L	E	F	T		3		L	A	N	E	S										EM 2000
115	124	133.5	142	149.4	159.4	167.5	177.5	185.5	197.4	208.3	217.5									110.6	10

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	DRAWN -	REVISED -
PLOT SCALE = 1.00' / in.	CHECKED - LLS	REVISED -
PLOT DATE = 3/9/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

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

SGN-PD-01				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	63
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

FILE NAME = Projects\30120 1-190 Cumber\and\Design\CADD.Contract-62A64\CADD.Sheets\0162A64-sht-sign-pane1-02.dgn

1:100



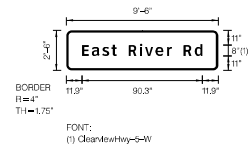
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	14.8	90.3	45	36
M1_1	0	180.7	90.4	45	36
Airport	0	258.2	84.1	15.6	16

SGN-PD-02

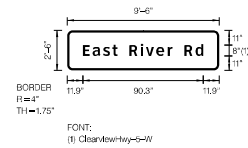
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[illegible]

Letter locations are panel edge to lower left corner

[illegible]

1:100

[illegible]

Letter locations are panel edge to lower left corner

[illegible]

EB I-90 STA. 3012+15
SIGN STRUCTURE 1B016I090R079.2 (BRIDGE MOUNTED OVER I-90)

SIGN DETAIL

1:100



SIGN NUMBER	EB-BM-NW-02
WIDTH x HGHT.	18'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective (TYPE ZZ)
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective (TYPE ZZ)
	COLOR: White/White

[illegible]

Panel Style: `guide_exp_advance_b.ssi`

Dimensions are in inches.tenths

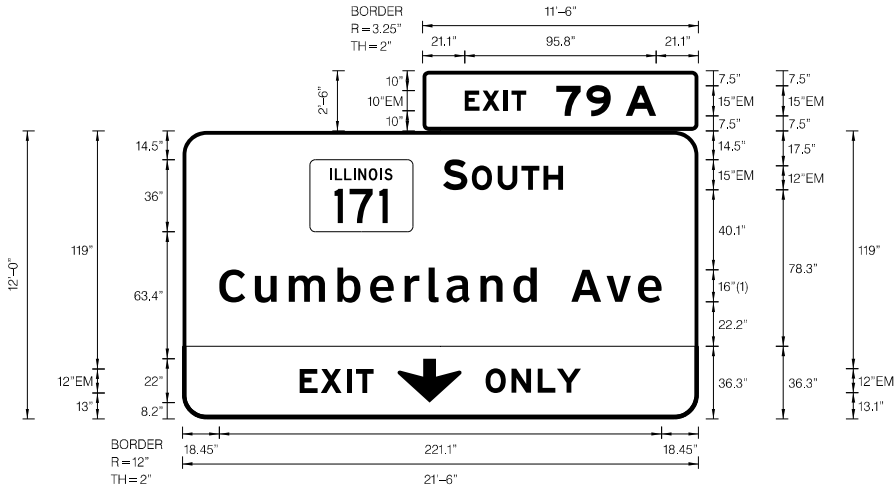
Letter locations are panel edge to lower left corner

[illegible]

EB I-90 STA. 3012 +15
SIGN STRUCTURE 1B016I090R079.2 (BRIDGE MOUNTED OVER I-90)

SIGN DETAIL

1:100



FONT:
(1) ClearviewHwy-5-W

Panel Style: guide_fwy_advance_b.ssi
Dimensions are in inches.tenths

Letter spacings are to start of next letter

SIGN NUMBER	EB-BM-NW-03, NW-03a
WIDTH x HGHT.	21'-6" x 12'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective (TYPE ZZ) COLOR: Green / Yellow
LEGEND/BORDER	TYPE: Reflective (TYPE ZZ) COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1-I100A-3-22-10D	0	63.8	93.6	51.4	36
ARDOWN	0	107.6	8.2	32	22

LETTER POSITIONS (X)																						LENGTH	SERIESSIZE
	E	X	I	T		7	9		A													EM 2000	
21.1	8.8	10.8	3.8	7.4	15	15.2	12.2	7.5	15.2	21.1											95.8	10,15	
	S		O	U	T	H																EM 2000	
130.3	12.2	2.3	13	11.9	11	9.7	67.7														60.1	15,12	
	C	u	m	b	e	r	l	a	n	d		A	v	e								ClearviewHwy-5-W	
18.4	17.9	17	24.2	16.4	17.2	12	8.9	17	16.5	11.6	17.3	17.6	15.7	11.8	18.4						221.1	1613	
	E	X	I	T																		EM 2000	
58.6	10.6	13	4.6	8.9	162.4																37	12	
	O	N	L	Y																		EM 2000	
151.6	13	13.1	9.6	12.1	58.6																47.8	12	

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PLOT DATE = 3/9/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

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

SGN-PD-05			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
90	1617B(13)	COOK	223
CONTRACT NO. 62A64			
ILLINOIS FED. AID PROJECT			

FILE NAME : z:\mbox56\hntb.org\PI\Create\Lakes\Documents\Chicago Projects\30120 I-190 Cumberland\Design\CADD\Contract\62A64\CADD_Sheets\0162A64-sh1t-sign-overhead-01.dgn



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PLOT DATE = 7/2/2015	DATE - 03/20/2015	REVISED -

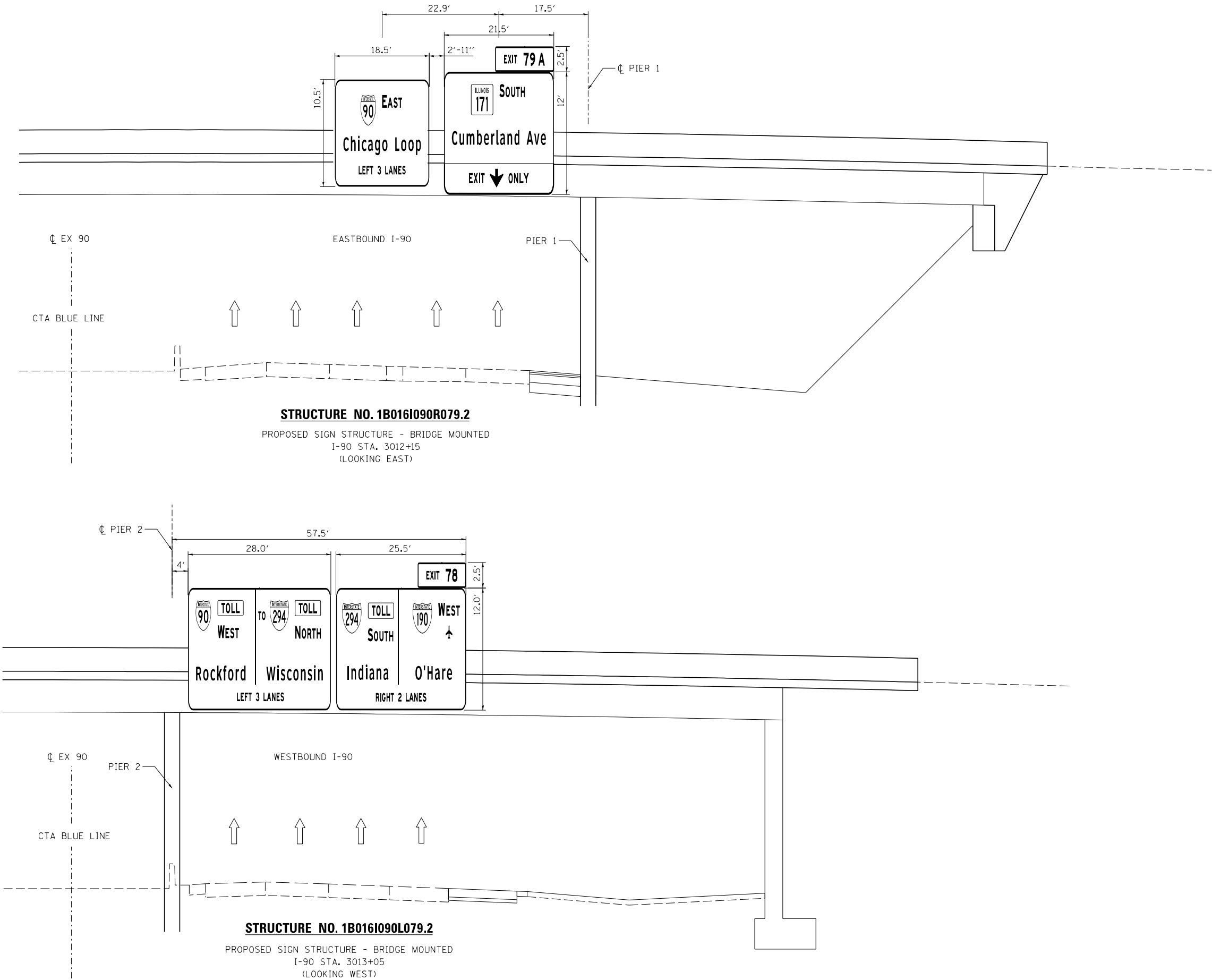
DESIGNED -	REVISED -
DRAWN - LLS	REVISED -
CHECKED - LLS	REVISED -
DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES SIGN LAYOUT			
SCALE: N.T.S.	SHEET 1	OF 1 SHEETS	STA. 112+00 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	68
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

SGN-OVH-01



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 Specifications.

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.

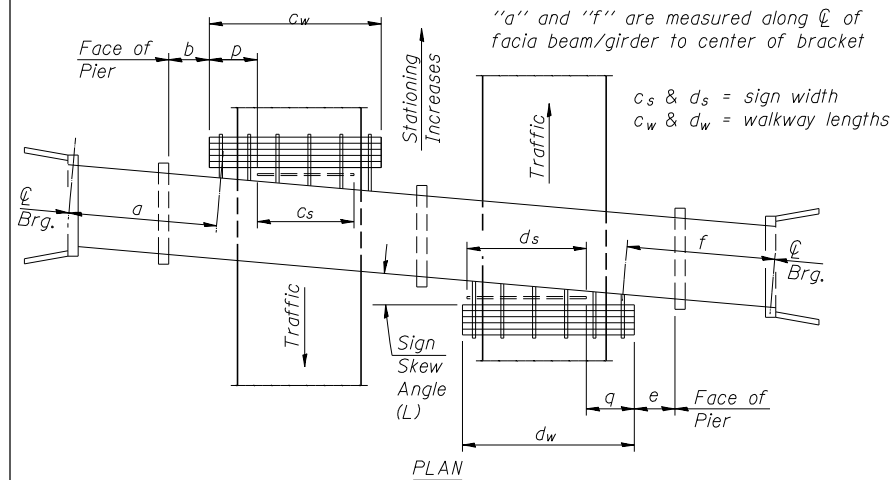
ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, $\frac{3}{4}$ " ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- ① Bracket spacing $g \leq 6'-0''$, max. Spacing shall be uniform if possible but may vary $\pm 6''$ 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.

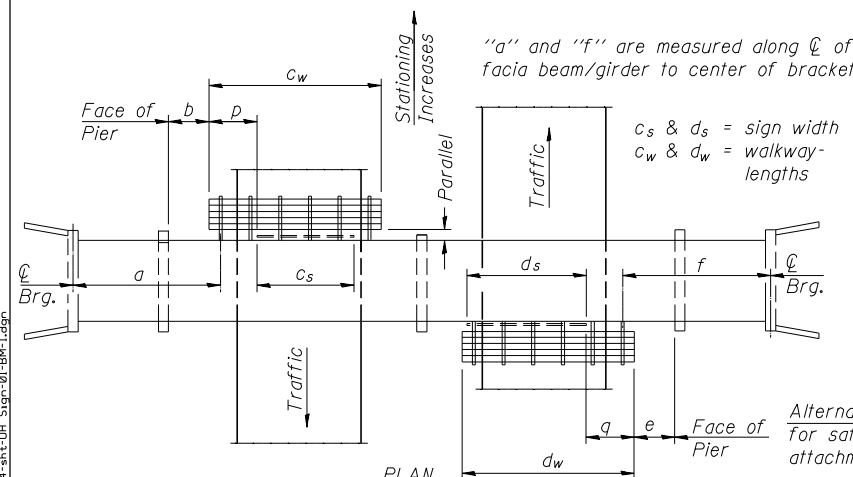
WALKWAY GRATING AND HANDRAILS NOT REQUIRED

TOTAL BILL OF MATERIAL

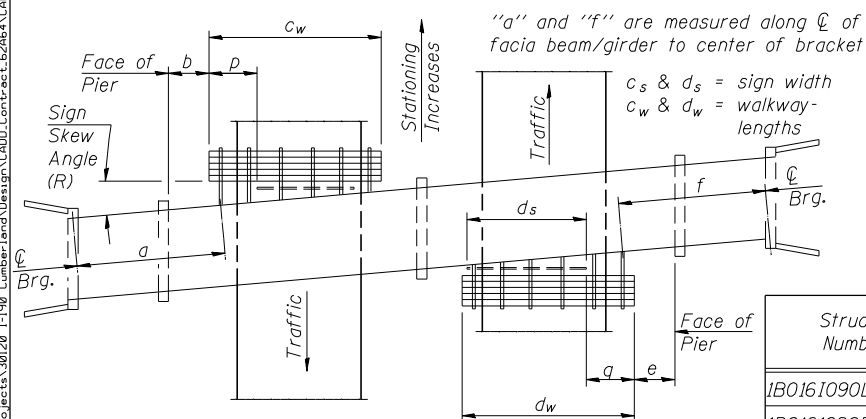
③ OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	Foot	97
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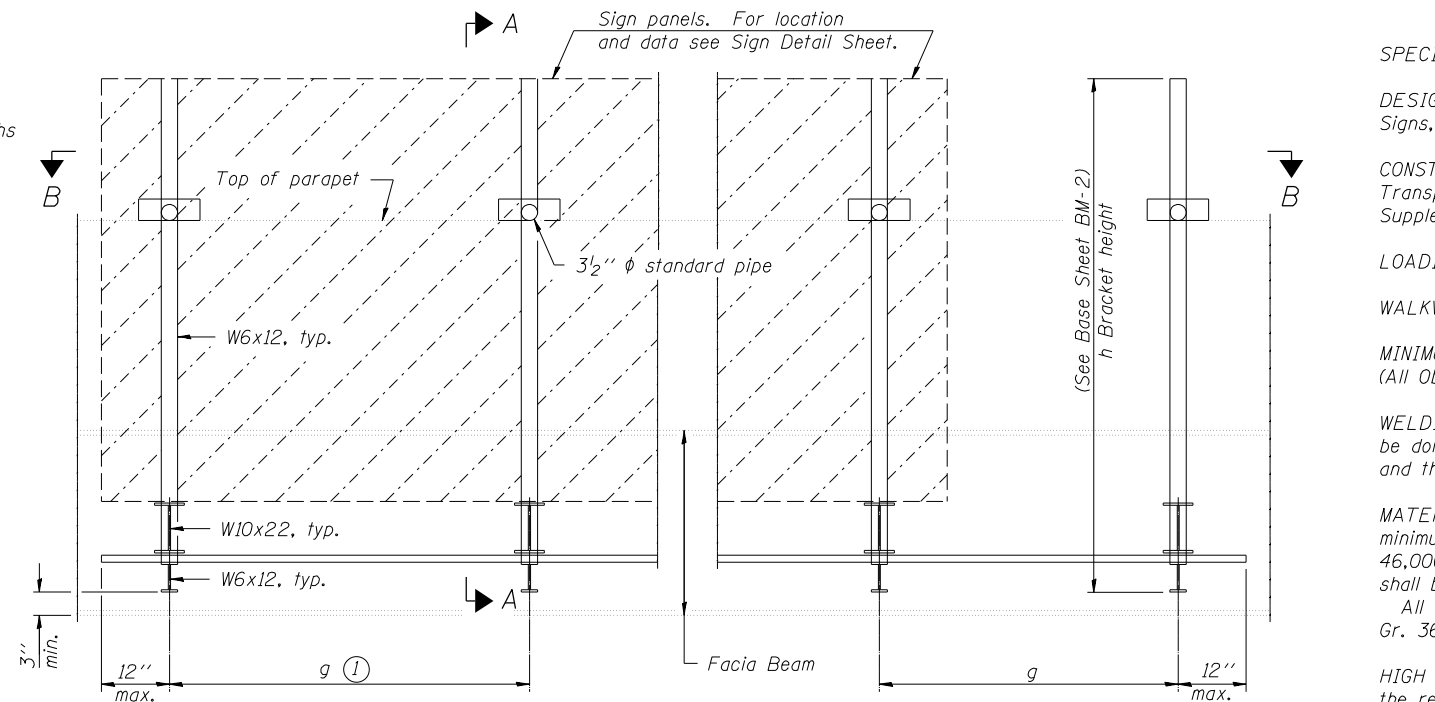
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



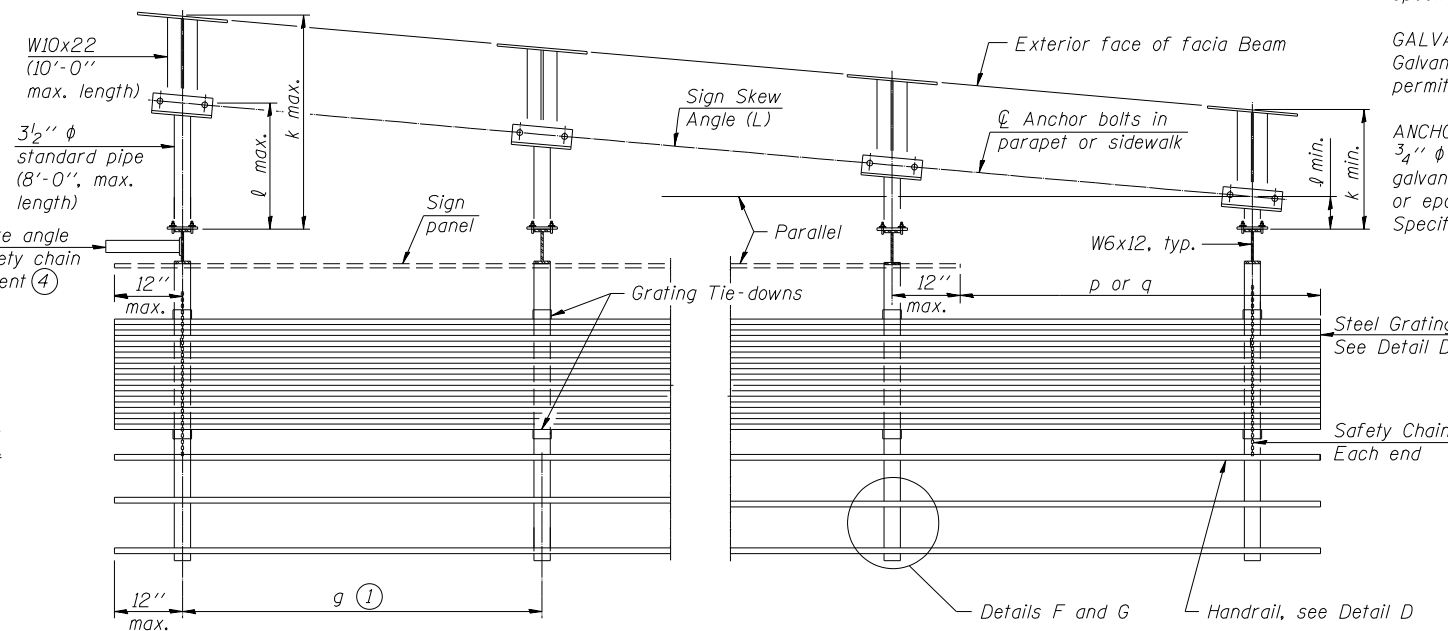
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



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 $> 15^\circ$)

[illegible]

Dimensions a , b , e , f & g may vary as approved by the Engineer, see (1).
When $c_w < c_s$ and/or $d_w < d_s$, use alternate brackets without walkway supports where applicable, see (3).

BM-1 (SPECIAL) 6-1-12

HNTB

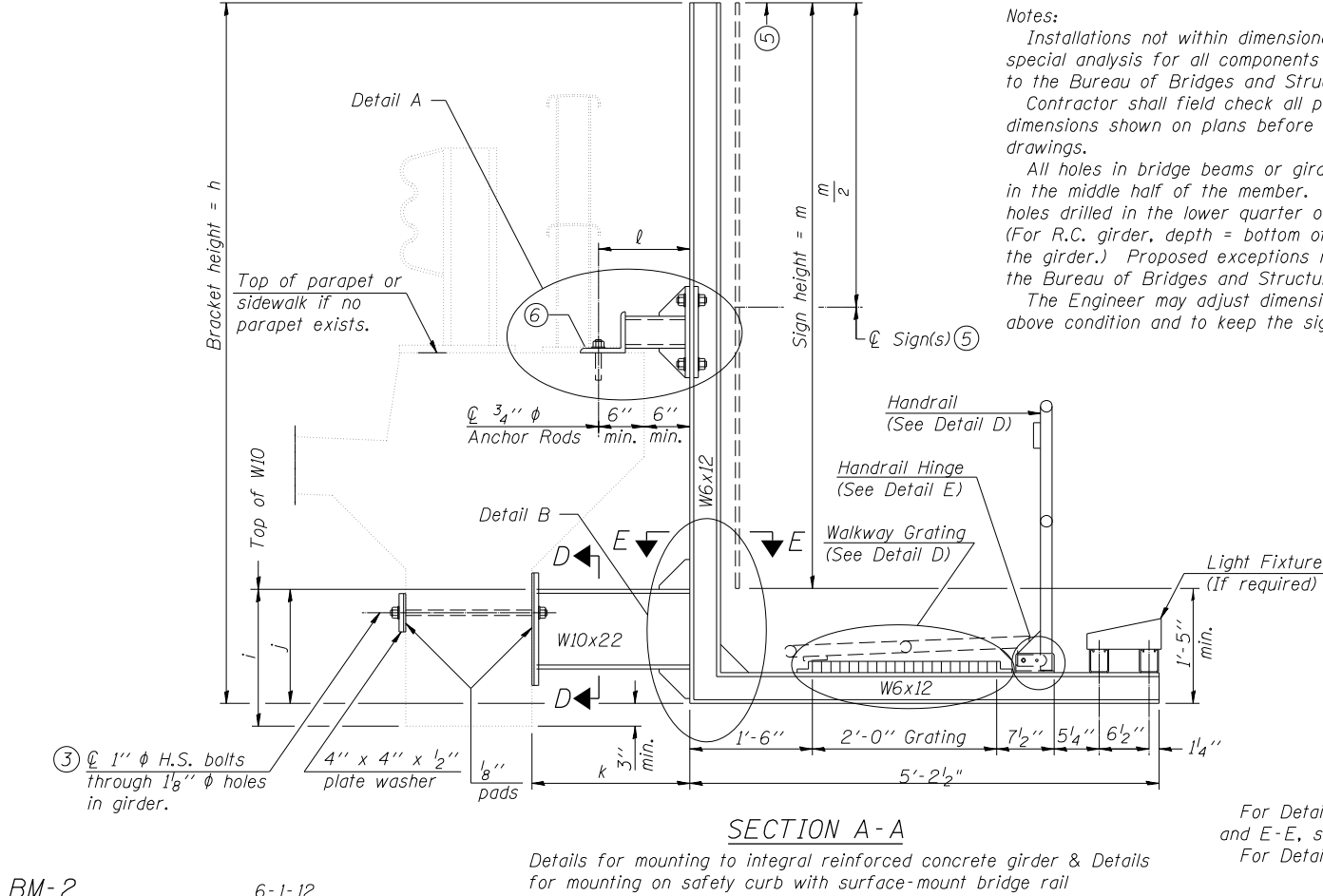
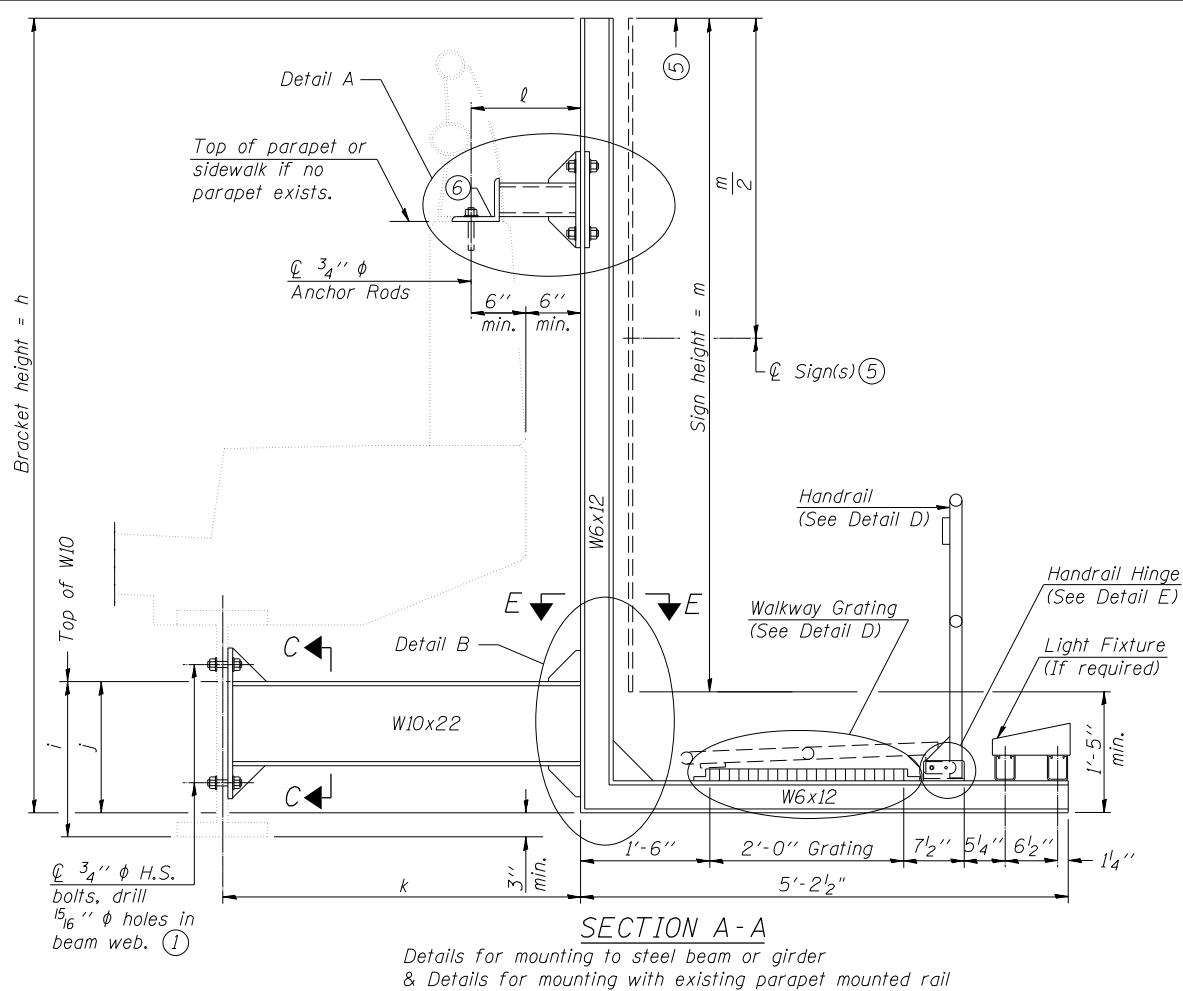
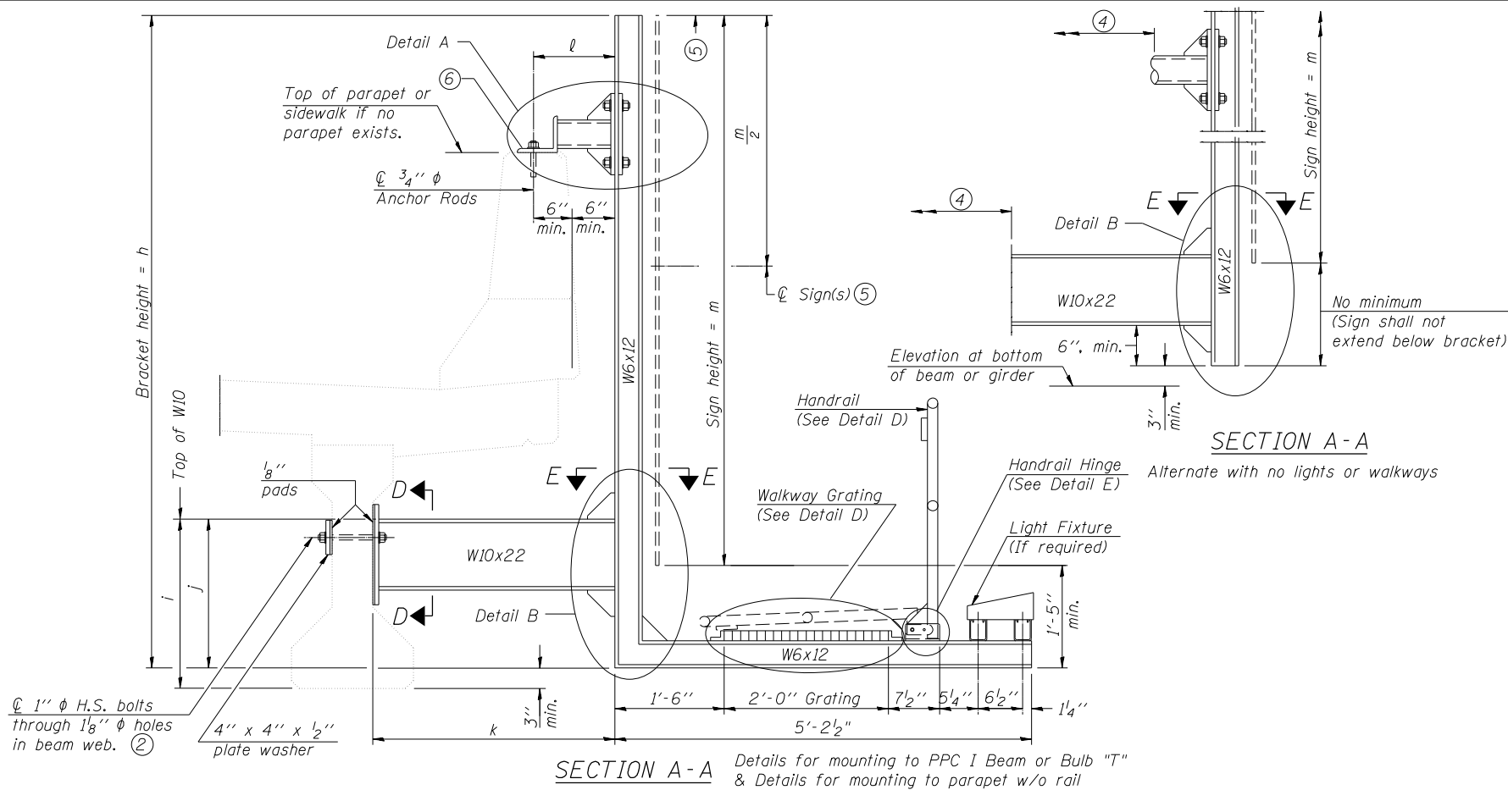
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PLOT DATE = 7/2/2015	DATE = 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES GENERAL PLAN AND ELEVATION

SCALE:	SHEET 1	OF 4	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	69
		CONTRACT NO. 62A64		
ILLINOIS FED. AID PROJECT				



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 1/4" 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 1/2" 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.)
1B0161090L079.2	73+75.00	15'-0"	2'-2"	1'-4 1/2"	3'-1 1/2"	1'-1"	14'-6"
1B0161090R079.2	73+75.00	15'-0"	2'-2"	1'-4 1/2"	3'-2 1/2"	1'-3 3/4"	14'-6"

BM-2 6-1-12



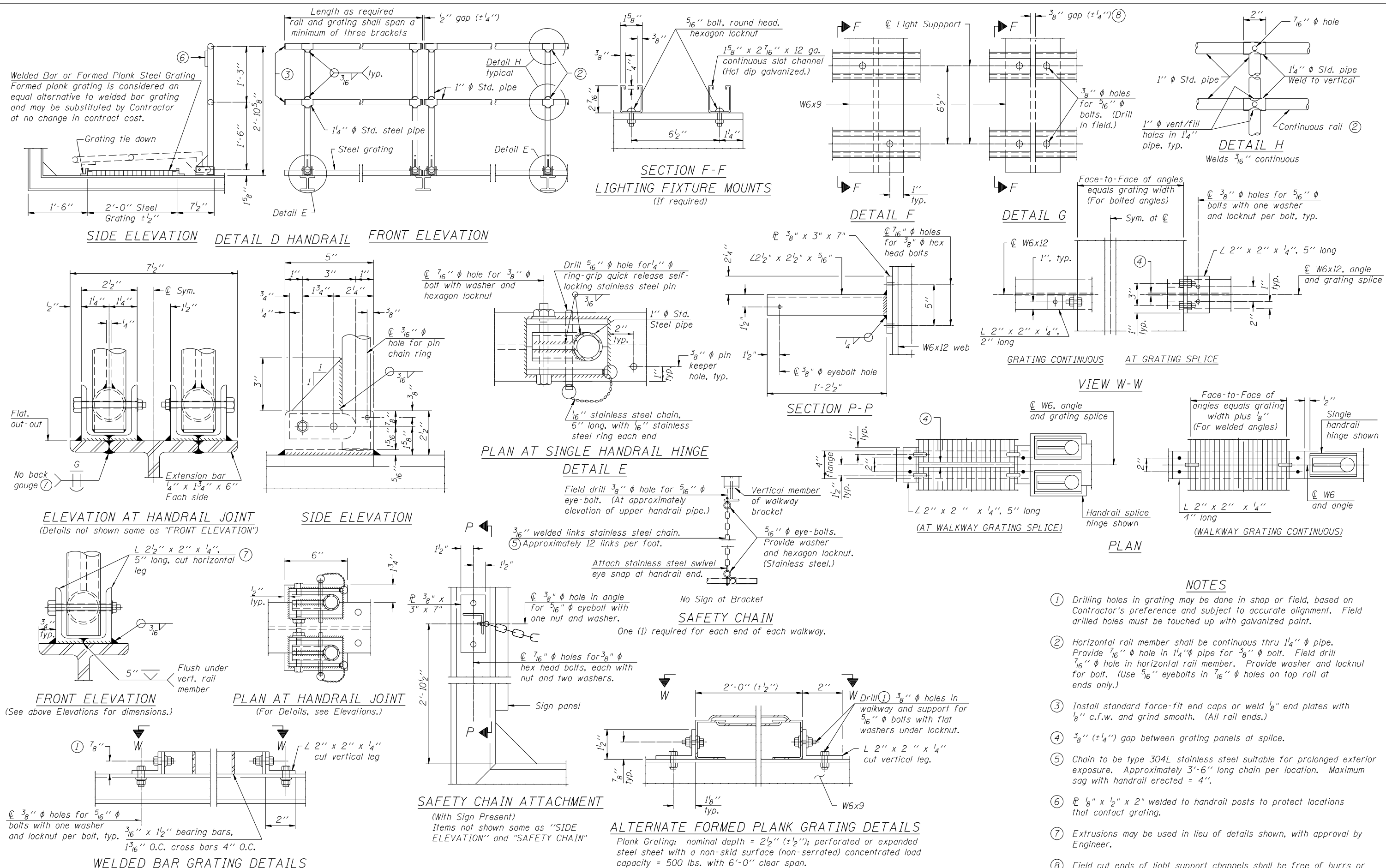
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PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES WALKWAY AND CONNECTION DETAILS			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	70
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

BM-02



- NOTES**
- 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.
 - Horizontal rail member shall be continuous thru 1/4" φ pipe. Provide 7/16" φ hole in 1/4" φ pipe for 3/8" φ bolt. Field drill 7/16" φ hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" φ holes on top rail at ends only.)
 - Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends.)
 - 3/8" (±1/4") gap between grating panels at splice.
 - 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".
 - 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
 - Extrusions may be used in lieu of details shown, with approval by Engineer.
 - Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

FILE NAME: J:\mbs\56\hntb\org\Pl\Create\ Lakes\Documents\Chicago\Projects\30120 1-198_CumbarLand\Design\CADD_Contract\62A64\CADD_Sheets\0162A64-sh1-land-01.dgn



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	DRAWN - RM	REVISED -
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PLOT DATE = 7/15/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN
EAST RIVER ROAD / I-90

SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 71+00.00 TO STA. 76+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	73
CONTRACT NO. 62A64				LS-01
ILLINOIS FED. AID PROJECT				

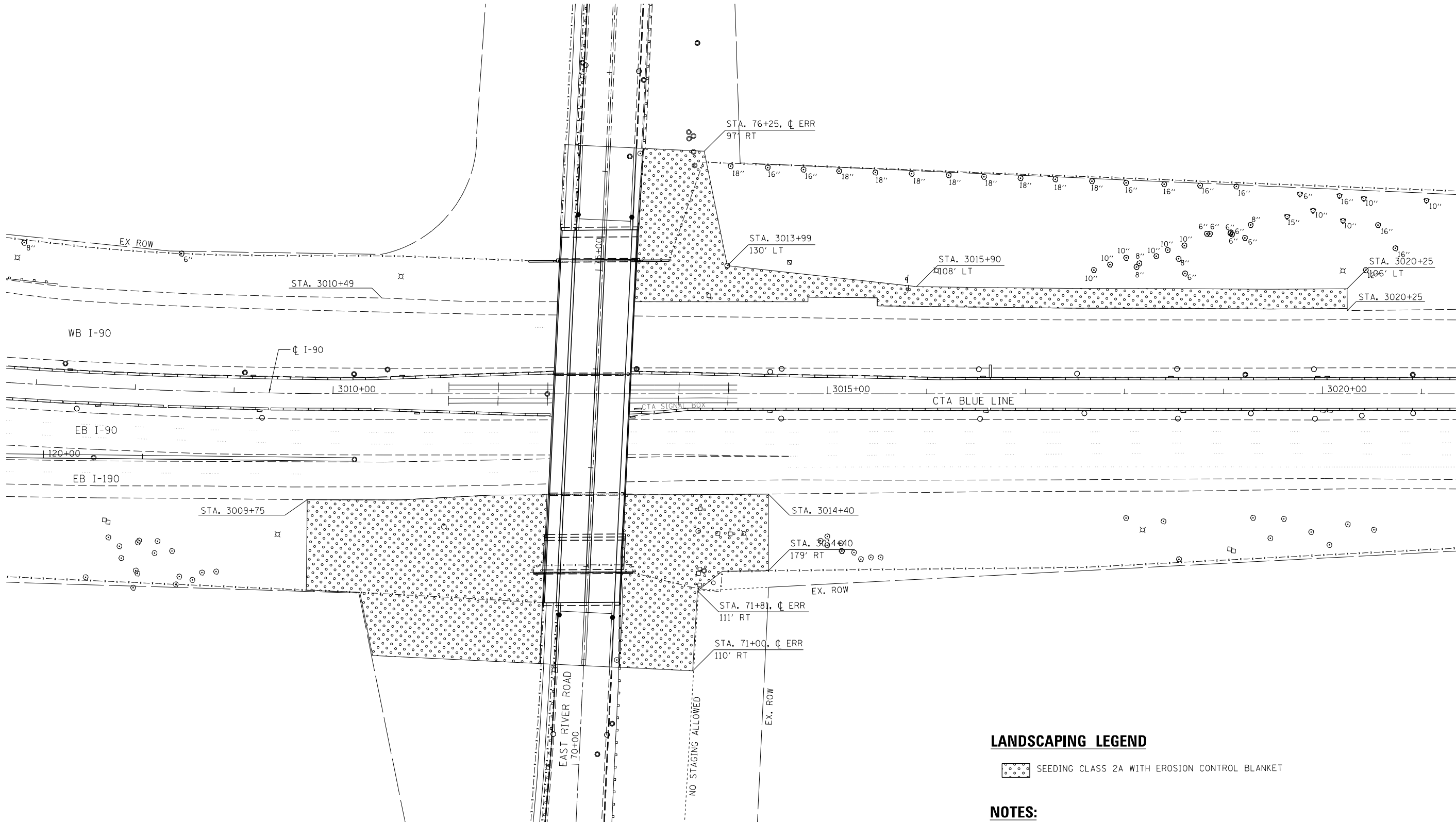


LANDSCAPING LEGEND

 SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

NOTES:

1. PERMANENT SEEDING SHALL BE CLASS 2A SALT TOLERANT ROAD MIXTURE, ACCORDING TO ARTICLE 250.07



INDEX OF SHEETS

E-01	-	E-10	IDOT LIGHTING PLANS
E-11	-	E-30	CDOT LIGHTING PLANS

DISTRICT 1 DETAILS

BE-205	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA
BE-702	MISC. ELECTRICAL DETAILS - SHEET A
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BE-900	SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT

ABBREVIATIONS

AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BC	BOLT CIRCLE
C	CONDUIT
DIA	DIAMETER
GRD	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
MA	MAST ARM
MH	MOUNTING HEIGHT
N	NEUTRAL
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
USE	UNDERGROUND SERVICE ENTRANCE
W	WATTS
XLP	CROSS-LINKED POLYETHYLENE
PVCC RGC	PVC COATED RIGID GALVANIZED STEEL CONDUIT

COMED COORDINATION – (REFERENCE ONLY)

CONTROLLER D1 INFORMATION:
METER # : 140–152–699
ACCOUNT # : 6099217004
CONTACT : ROBERT CHRISTMAS
PHONE # : 1–773–509–3243

LIGHTING GENERAL NOTES

- PRIOR TO ANY WORK IN FIELD, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
- THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH WOULD EFFECT HIS WORK UNDER THIS CONTRACT FOR THE OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR’S EXPENSE
- THE ELECTRIC SERVICE SHALL BE SINGLE PHASE, 3 WIRE 240/480V. UTILITY CONNECTION CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED.
- ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH NATIONAL ELECTRICAL CODE EVEN THOUGH EVERY DETAIL OF REQUIREMENTS IS NOT SPECIFIED OR SHOWN.
- GROUNING OF POLE INCLUDING GROUND ROD, CONDUCTOR, LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL NOT BE PAID SEPARATELY. COST MUST BE INCLUDED IN UNIT PRICE OF EACH POLE.
- ALL UNDERGROUND WIRING SHALL BE 30 INCHES MINIMUM BELOW GRADE.
- THE NEW ELECTRICAL MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS.
 - NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. (NEMA)
 - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. (IEEE)
 - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. (IES)
 - AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS. (AATO)
 - U.S. DEPARTMENT OF TRANSPORTATION. (U.S.D.O.T)
 - UNDERWRITERS LABORATORIES. (UL)
 - AMERICAN STANDARD INSTITUTE. (ASI)
 - INSULATED POWER AND CABLE ENGINEERS ASSOCIATION. (IPCEA)
 - NATIONAL ELECTRICAL SAFETY CODE (NESC)
 - NATIONAL ELECTRICAL CODE 2011
 - AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8)
- ALL SPlicing MUST BE IN POLE BASES OR JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
- COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING ROADWAY FOR THIS WORK, AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, REINSTALLING, REPAIRING, OR REPLACING EQUIPMENT.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION AND REMODELING WORK. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING ALL RELOCATIONS AND REMOVALS REQUIRED IN THIS CONTRACT. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING CONDITIONS AND COORDINATE AS REQUIRED.

PROPOSED LIGHTING GENERAL NOTES

- ALL NEW UNIT DUCT, CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDER DRAINS.

TEMPORARY LIGHTING GENERAL NOTES

- THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED; APPROVAL DOESN’T RELIVE CONTRACTOR OF RESPONSIBILITY FOR CONFLICTS.
- THE TEMPORARY LIGHT POLE SETBACK FROM THE FURTHEST EDGE OF TRAVEL PAVEMENT (PER MOT PLANS) SHALL BE 18 FT MIN. UNLESS OTHERWISE NOTED BY OFFSET FROM EXISTING EDGE OF PAVEMENT FOR THAT STAGE.
- THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE.
- THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY REMOVALS. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER; AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON.
- WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS.
- UNLESS NOTED OTHERWISE TEMPORARY UNDERGROUND CONDUCTORS SHALL BE 3-1/C*2, 1-1/C*4 GND; XLP-TYPE USE, COPPER; TEMPORARY OVERHEAD CONDUCTORS SHALL BE 3-1/C*2 AL WITH MESSENGER WIRE.
- EVERY THIRD TEMPORARY LIGHTING POLE SHALL BE FURNISHED WITH A GROUND ROD CONNECTION. THIS GROUND ROD IS NOT SHOWN IN PLAN. 5/8” X 10’ COPPER CLAD STEEL GROUND ROD, #2 BARE TINNED COPPER DOWN CONDUCTOR, CABLE GUARD TO 10’ ABOVE GRADE ARE INCLUDED IN THE TEMPORARY LIGHTING WOOD POLE PAY ITEM. WHERE THERE ARE THREE TEMPORARY POLES CONNECTED TOGETHER, INSTALL A GROUND ROD AT BACK POLE.
- IN ACCORDANCE WITH NEC 225.18 AERIAL CONDUCTOR TO MAINTAIN 18’ CLEARANCE ABOVE ROAD SURFACE AT ALL TIMES.
- CONTRACTOR SHALL TURN OFF CIRCUITS AT THE CONTROLLER BEFORE WORKING ON EXISTING LIGHTING UNITS. CONTRACTOR MUST COORDINATE A POWER OUTAGE WITH COMED AT LEAST TWO WEEKS PRIOR TO OUTAGE.

LIGHTING REMOVAL GENERAL NOTES

- BRANCH CIRCUIT WIRING FOR EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED AT SOURCE AND REMOVED. REMOVAL OF EXISTING WIRING IS INCLUDED IN THE REMOVAL OF EXISTING EQUIPMENT.
- ALL EXISTING EQUIPMENT THAT ARE TO BE REMOVED SHALL BE DISPOSED OF AT THE CONTRACTOR’S EXPENSE.
- LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE SUBJECT TO THE ENGINEER’S APPROVAL.
- THE REMOVAL OF THE EXISTING CABLE DUCT SHALL BE INCLUDED IN ROADWAY CONSTRUCTION.
- TEMPORARY LIGHTING EQUIPMENT SUCH AS AERIAL CABLES, WOOD POLES, CABLE DUCT, AND MOUNTING HARDWARE SHALL BE REMOVED AFTER ALL PROPOSED LIGHTING EQUIPMENT HAS BEEN INSTALLED AND FULLY FUNCTIONAL OR AS DIRECTED BY ENGINEER. REMOVAL OF TEMPORARY LIGHTING EQUIPMENT SHALL BE AT NO ADDITIONAL COST TO THIS CONTRACT.

FILE NAME : D:\2024-25\stt-01\st-notes-01.dgn

HNTB	USER NAME : kanyikwa	DESIGNED - KFA/SM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL SHEET INDEX, IDOT LIGHTING GENERAL NOTES AND ABBREVIATIONS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - AA	REVISED -				90	1617B(13)	COOK	223	74
	PLOT SCALE = 1.0000 ' / in.	CHECKED - MCD	REVISED -				CONTRACT NO. 62A64				
	PLOT DATE : 7/1/2015	DATE - 03/20/2015	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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IDOT LEGEND



PROPOSED UNDERPASS LUMINAIRE, M-C-IV 100W HPS



PROPOSED UNDERPASS LUMINAIRE, M-C-IV 70W HPS



EXISTING LIGHT TOWER TO REMAIN



EXISTING ELECTRICAL JUNCTION BOX



ELECTRICAL JUNCTION BOX 20" X 20" X 8" ATTACHED TO STRUCTURE



ELECTRICAL JUNCTION BOX 12" X 10" X 6" ATTACHED TO STRUCTURE



ELECTRICAL JUNCTION BOX 6" X 6" X 4" ATTACHED TO STRUCTURE

IDOT LEGEND CONT'D



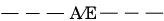
GROUND FIELD FOR CONTROLLERS
GROUND RODS 5/8" x 10'-0"
#2/0 AWG BARE COPPER WIRE



GROUND ROD 5/8" DIA. X 10'



UNIT DUCT, 1 1/4" DIA POLYETHYLENE, SCH-40
600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE),
(UNLESS NOTED OTHERWISE)



AERIAL CABLE, 3-1/C #2, ALUMINIUM, WITH MESSENGER WIRE
TO REMAIN



AERIAL CABLE, 3-1/C #2, ALUMINIUM, WITH MESSENGER WIRE



PROPOSED IDOT LIGHTING CONTROLLER RADIO CONTROL
DUPLEX CONSOLE TYPE WITH SCADA 240/480V, 1PH, 3 WIRE



TEMPORARY WOOD POLE - 80 FT MH, CLASS 2



TEMPORARY WOOD POLE- 30FT MH, CLASS 5



TEMPORARY WOOD POLE TO REMAIN



EXISTING UNDERPASS LIGHTING TO BE REMOVED

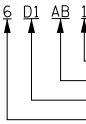


EXISTING IDOT LIGHTING CONTROLLER TO BE REMOVED

TEMPORARY LIGHTING PHASING

UNLESS OTHERWISE NOTED TEMPORARY POLES ARE TO BE REMOVED IN STAGE 2
AFTER FINAL LIGHTING HAS BEEN INSTALLED AND IS OPERATIONAL

LIGHT TOWER DESIGNATION



LIGHT TOWER
CIRCUITS DESIGNATION
LIGHTING CONTROLLER DESIGNATION
NUMBER OF LUMINAIRES ON TOWER

IDOT LIGHTING BILL OF MATERIALS

PAY ITEM DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	2
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	100
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	650
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	720
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	980
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	150
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	10
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	5
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 20" X 20" X 8"	EACH	2
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	920
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2880
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	1030
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	6480
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	800
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	2450
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	2
UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	9
REMOVAL OF LIGHTING CONTROLLER	EACH	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12
REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICE	EACH	2
TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	2
WOOD POLE, 100 FT, CLASS 2	EACH	9
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA	EACH	1
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8
REMOVE AND RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1



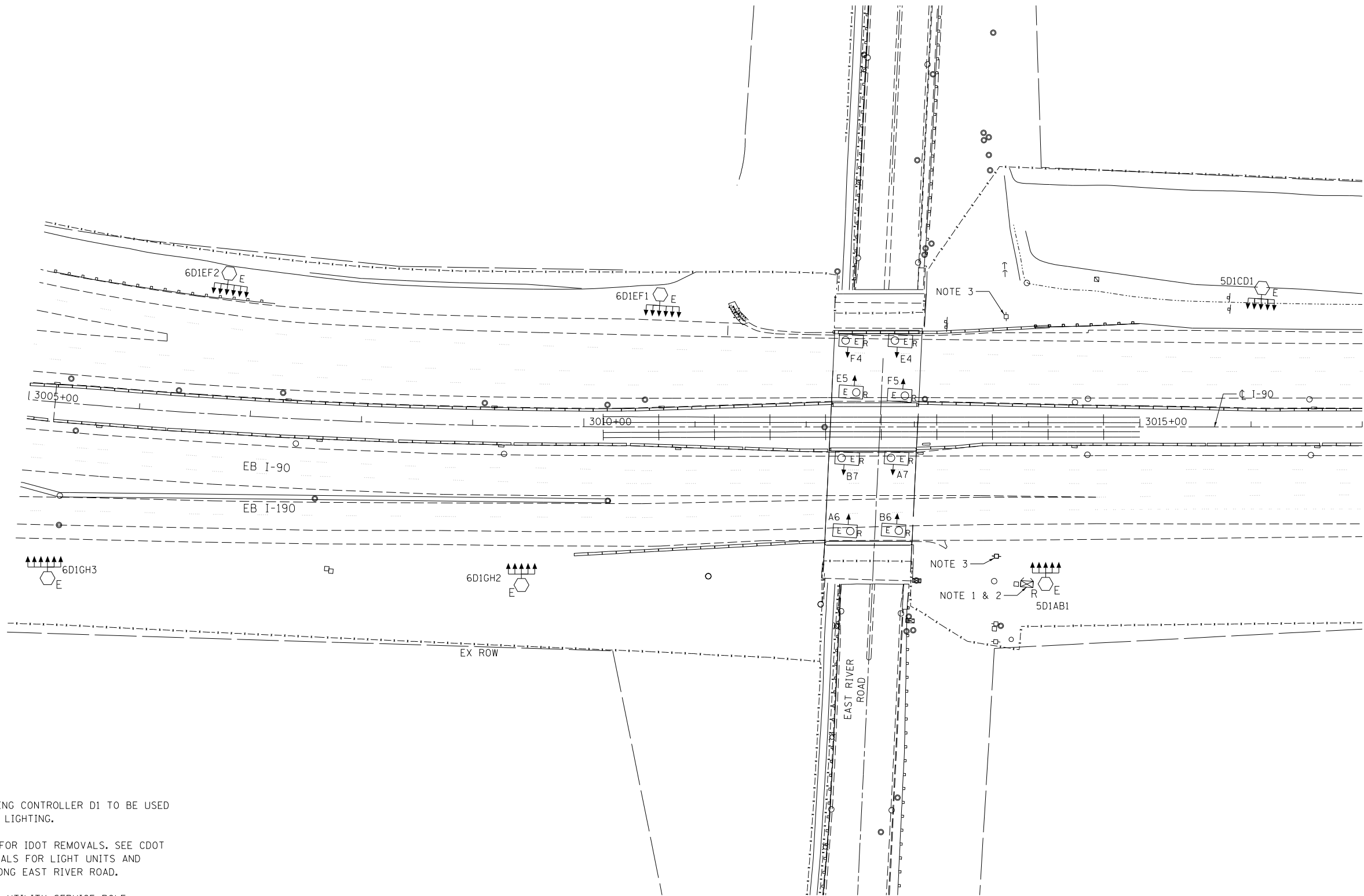
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING GENERAL LEGEND AND BILL OF MATERIALS
I-90

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	75
			CONTRACT NO. 62A64	
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. EXISTING LIGHTING CONTROLLER D1 TO BE USED FOR TEMPORARY LIGHTING.
2. THIS SHEET IS FOR IDOT REMOVALS. SEE CDOT LIGHTING REMOVALS FOR LIGHT UNITS AND CONTROLLER ALONG EAST RIVER ROAD.
3. EXISTING COMED UTILITY SERVICE POLE.

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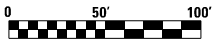
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

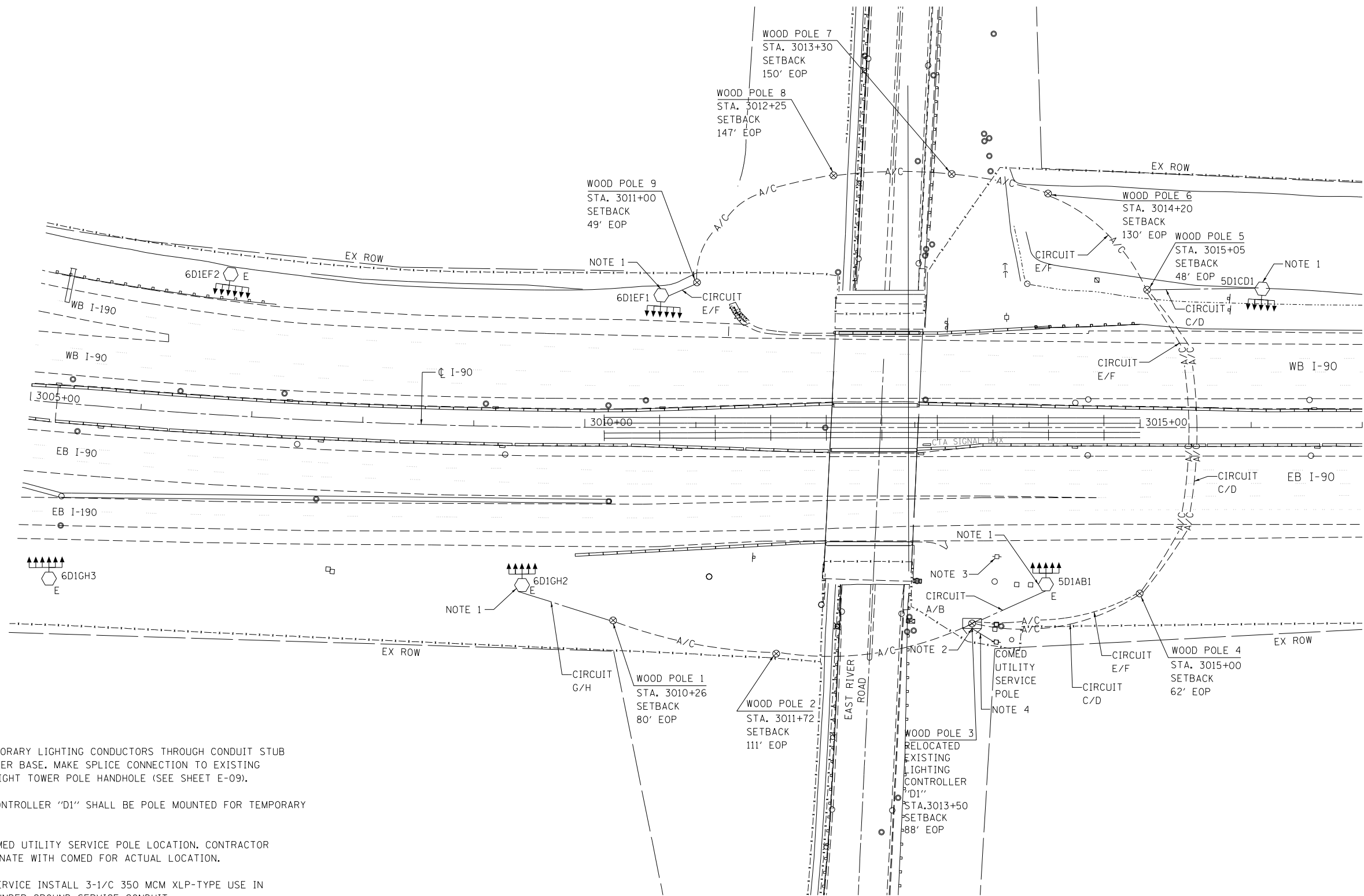
IDOT LIGHTING REMOVAL PLAN
EB I-90 AND EBCD ROAD

SCALE: SHEET 2 OF 4 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

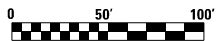


E-03



NOTES:

1. INSTALL TEMPORARY LIGHTING CONDUCTORS THROUGH CONDUIT STUB AT LIGHT TOWER BASE. MAKE SPLICE CONNECTION TO EXISTING CIRCUIT AT LIGHT TOWER POLE HANDHOLE (SEE SHEET E-09).
2. RELOCATED CONTROLLER "D1" SHALL BE POLE MOUNTED FOR TEMPORARY CONDITIONS.
3. PROPOSED COMED UTILITY SERVICE POLE LOCATION. CONTRACTOR SHALL COORDINATE WITH COMED FOR ACTUAL LOCATION.
4. FOR COMED SERVICE INSTALL 3-1/C 350 MCM XLP-TYPE USE IN 3" DIA. RGS UNDER GROUND SERVICE CONDUIT.



E-04

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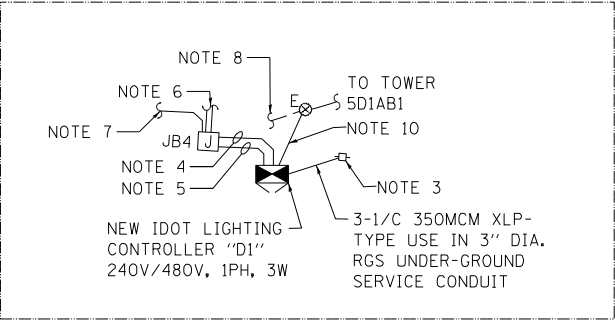
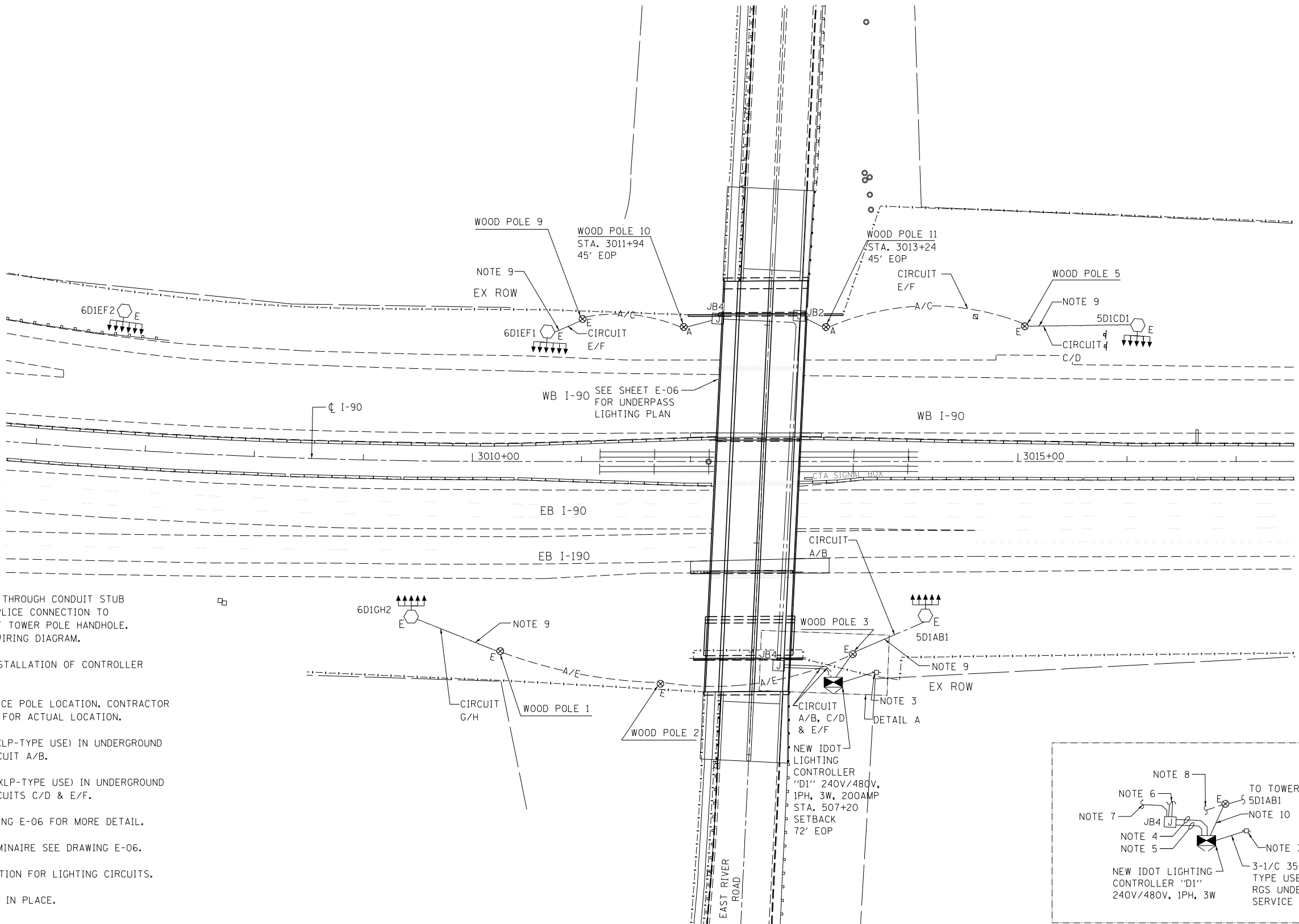
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING AND REMOVAL PLAN
EB I-190

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	77
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				



DETAIL A – CONTROLLER “D1”
N.T.S.

NOTES:

1. INSTALL FINAL LIGHTING CABLE THROUGH CONDUIT STUB AT LIGHT TOWER BASE. MAKE SPLICE CONNECTION TO EXISTING CIRCUIT E/F AT LIGHT TOWER POLE HANDHOLE. SEE SHEET E-09 FOR TYPICAL WIRING DIAGRAM.
2. CONTRACTOR TO COORDINATE INSTALLATION OF CONTROLLER WITH EXISTING UTILITIES.
3. PROPOSED COMED UTILITY SERVICE POLE LOCATION. CONTRACTOR SHALL COORDINATE WITH COMED FOR ACTUAL LOCATION.
4. 3-1/C #2 & 1-1/C #4 GROUND (XLP-TYPE USE) IN UNDERGROUND CONDUIT, RGS, 2” DIA. FOR CIRCUIT A/B.
5. 6-1/C #2 & 2-1/C #4 GROUND (XLP-TYPE USE) IN UNDERGROUND CONDUIT, RGS, 2” DIA. FOR CIRCUITS C/D & E/F.
6. CIRCUITS C/D & E/F SEE DRAWING E-06 FOR MORE DETAIL.
7. TO CIRCUIT A/B UNDERPASS LUMINAIRE SEE DRAWING E-06.
8. EXISTING AERIAL CABLE CONNECTION FOR LIGHTING CIRCUITS.
9. EXISTING UNIT DUCT TO REMAIN IN PLACE. G/H.
10. (2) UNIT DUCT, 1 1/4” DIA POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE). FOR CIRCUIT A/B, AND G/H.
11. TEMPORARY LIGHTING CONNECTIONS SHALL REMAIN AS SHOWN.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

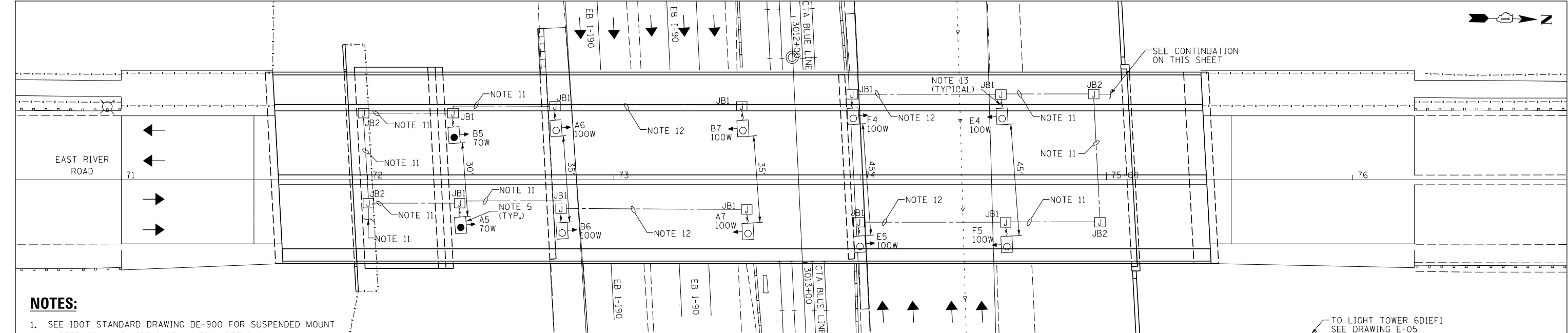
**IDOT PROPOSED LIGHTING PLAN
EB I-190**

SCALE: SHEET 2 OF 5 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	78
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

0 50' 100'

E-05

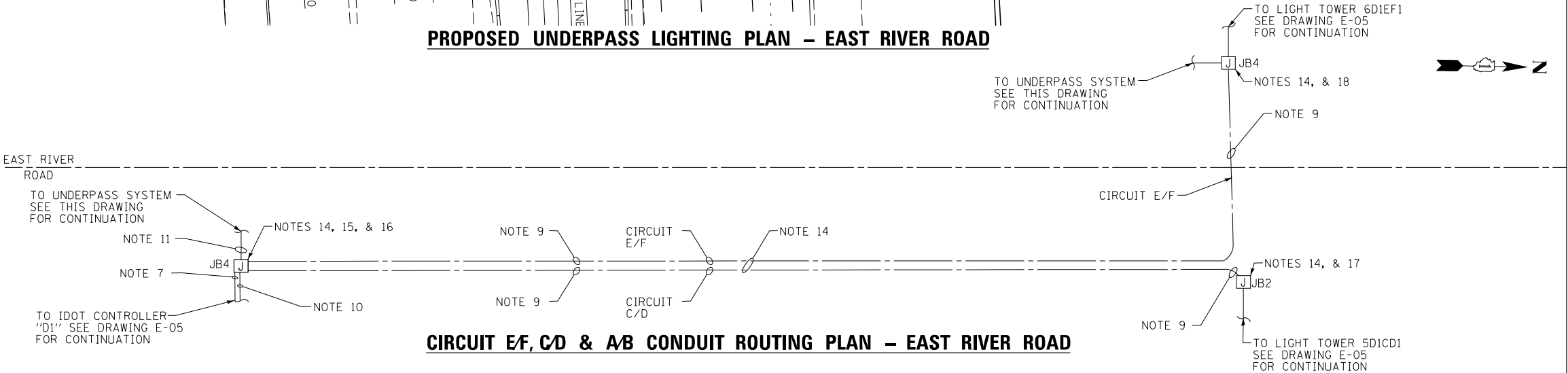


NOTES:

- 1. SEE IDOT STANDARD DRAWING BE-900 FOR SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS.
- 2. SUSPENDED MOUNT UNDERPASS LUMINAIRE WATTAGE AS SHOWN.
- 3. DIMENSIONS SHOWN ARE APPROXIMATE, THE CONTRACTOR SHALL CENTER THE SUSPENDED MOUNT LUMINAIRES BETWEEN GIRDERS.
- 4. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "D1" (UNLESS NOTED OTHERWISE).
- 5. SUSPENDED MOUNT UNDERPASS LUMINAIRE SETBACK FROM THE EDGE OF PAVEMENT SHALL BE 2 FEET.
- 6. PROPOSED CONNECTIONS TO EXISTING LIGHT TOWERS SHALL BE FED FROM IDOT LIGHTING CONTROLLER "D1".
- 7. 6-1/C #2 & 2-1/C #4 GROUND (XLP-TYPE USE) IN PVCC CONDUIT, 2" DIA. FOR CIRCUIT E/F, & C/D.
- 8. LEFT BLANK INTENTIONALLY

- 9. 3-1/C #2 & 1/C #4 GROUND IN 2" DIA. PVCC RGC.
- 10. 3-1/C #2 & 1/C #4 GROUND IN 2" DIA. PVCC RGC FOR CIRCUIT A/B.
- 11. 3-1/C #10, 1/C #10 IN 1" DIA. PVCC RGC ATTACHED TO STRUCTURE FOR UNDERPASS LIGHTING CIRCUIT A/B.
- 12. 2-1/C #10, 1/C #10 IN 1" DIA. PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING).
- 13. 2-1/C #10, 1/C GROUND IN 1" DIA. LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING).
- 14. SEE DRAWING E-10 FOR ATTACHMENT DETAILS.
- 15. SPLICE ELECTRIC CABLE IN CONDUIT CONDUCTORS OF CIRCUIT A/B TO UNIT DUCT CABLE TO LIGHT TOWER 5D1AB1.
- 16. SPLICE ELECTRIC CABLE IN CONDUIT CONDUCTORS OF CIRCUIT A/B TO UNDERPASS SYSTEM FOR EB-90, AND EB-190 ROADWAY.
- 17. SPLICE ELECTRIC CABLE IN CONDUIT CONDUCTORS OF CIRCUIT C/D TO UNIT DUCT CABLE TO LIGHT TOWER 5D1CD1.
- 18. SPLICE ELECTRIC CABLE IN CONDUIT CONDUCTORS OF CIRCUIT E/F TO UNIT DUCT CABLE TO LIGHT TOWER 6D1EF1.

PROPOSED UNDERPASS LIGHTING PLAN – EAST RIVER ROAD



CIRCUIT E/F, C/D & A/B CONDUIT ROUTING PLAN – EAST RIVER ROAD

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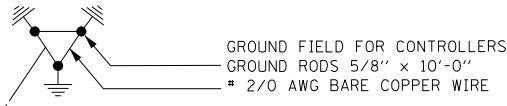
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT PROPOSED LIGHTING PLAN EAST RIVER ROAD			
SCALE: NTS	SHEET 5 OF 5 SHEETS	STA. 66+00.00 TO STA. 81+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	79
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				



SYMBOLS AND LEGEND



GROUND FIELD FOR CONTROLLERS
GROUND RODS 5/8" x 10'-0"
2/0 AWG BARE COPPER WIRE

EXISTING CONDUIT/CABLE

PROPOSED AERIAL CABLE

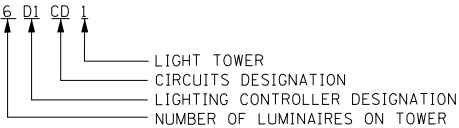


EXISTING IDOT LIGHTING CONTROLLER

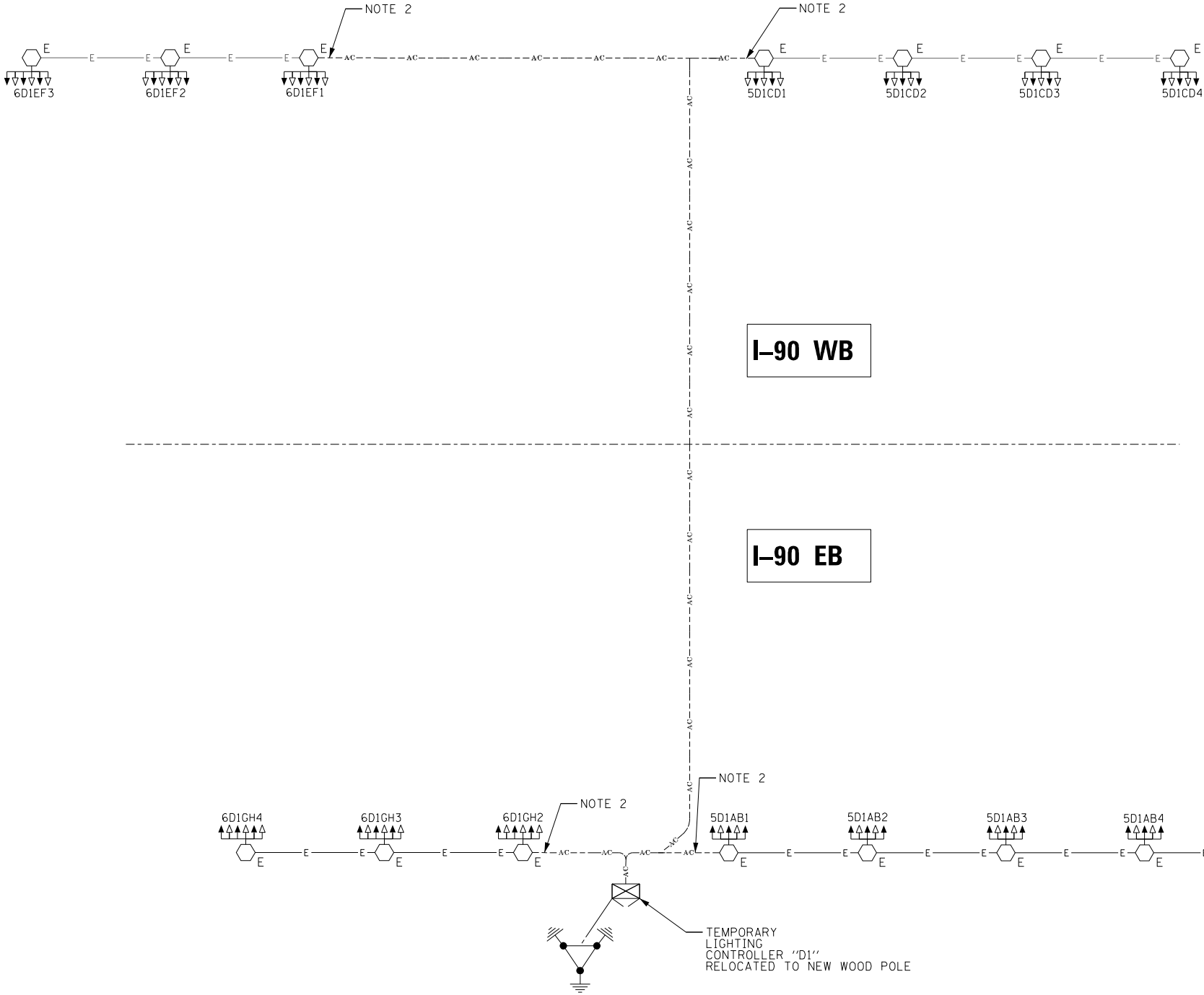


EXISTING LIGHT TOWER TO REMAIN

LIGHT TOWER DESIGNATION



LIGHT TOWER
CIRCUITS DESIGNATION
LIGHTING CONTROLLER DESIGNATION
NUMBER OF LUMINAIRES ON TOWER



NOTES:

- EXISTING WIRING DIAGRAM OMITTED FOR CLARITY.
- CONNECTION TO EXISTING LIGHT TOWER COMPLETED THROUGH UNDERGROUND CONDUIT FROM NEAR BY TEMPORARY WOODEN POLE; CONDUIT STUBS AND WOODEN POLES NOT SHOWN HERE, SEE SHEET E-04.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING CONTROLLER "D1"
WIRING DIAGRAM

SCALE: SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	80
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

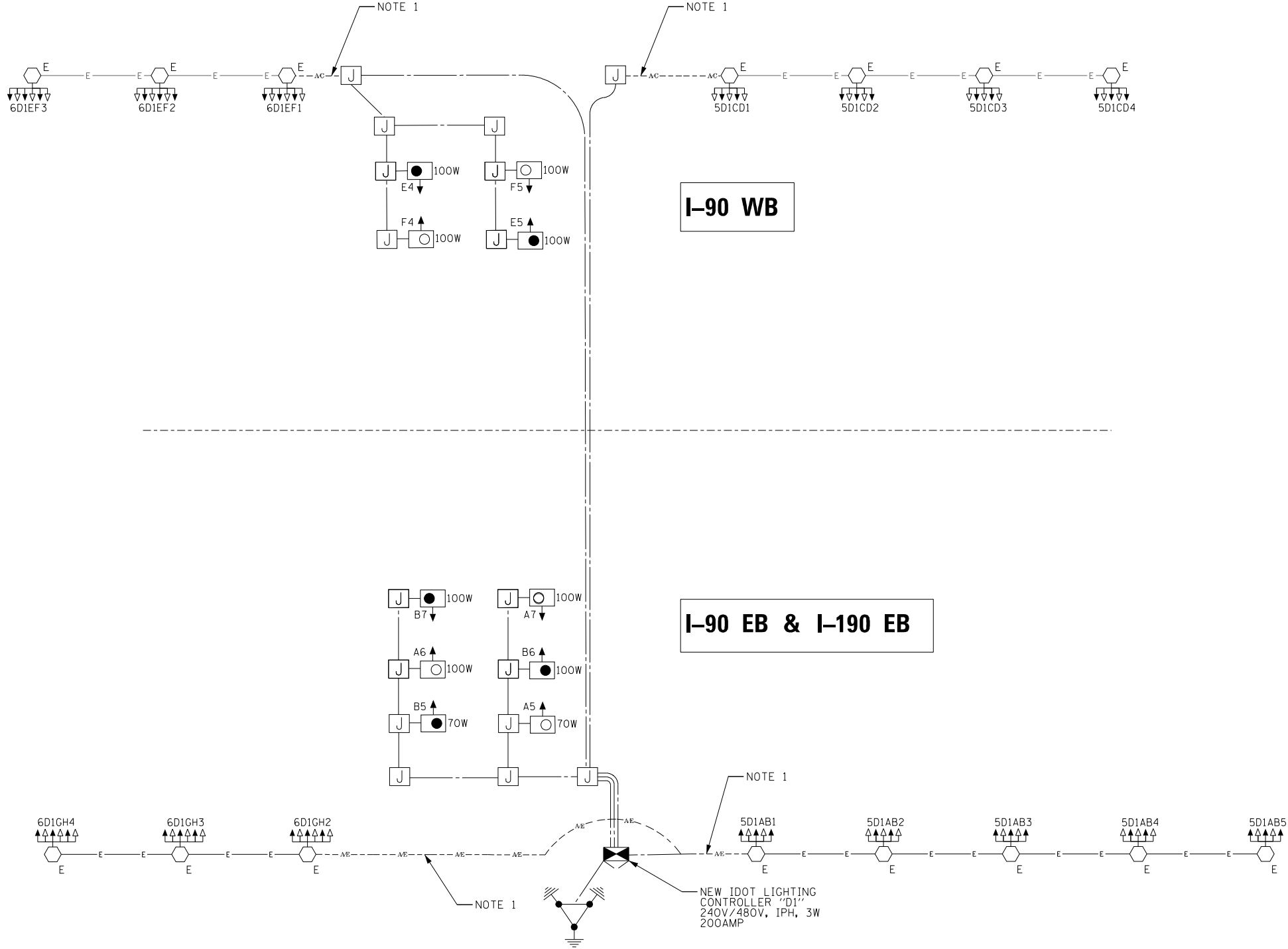
IDOT LIGHTING CONTROLLER "D1"
WIRING DIAGRAM

SCALE: SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

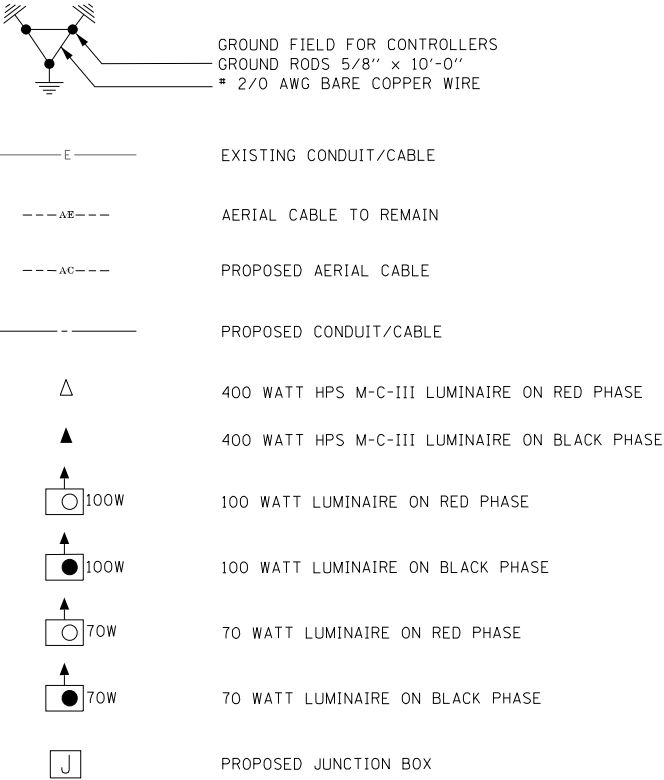
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90	1617B(13)	COOK	023	250
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

NOTES:

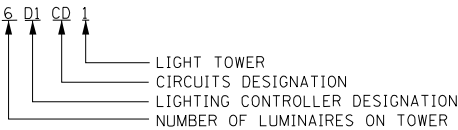
1. CONNECTION TO EXISTING LIGHT TOWER COMPLETED THROUGH UNDERGROUND CONDUIT FROM NEAR BY TEMPORARY WOODEN POLE; CONDUIT STUBS AND WOODEN POLES NOT SHOWN HERE, SEE SHEET E-05.

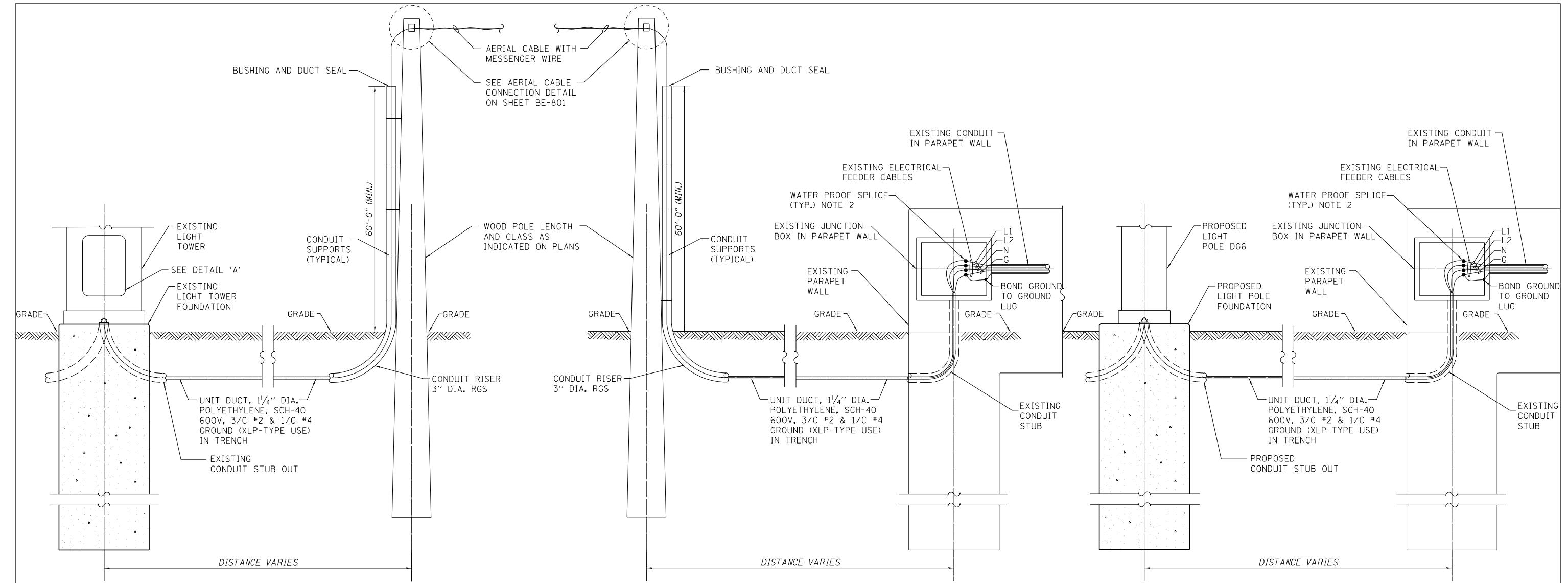


SYMBOLS AND LEGEND



LIGHT TOWER DESIGNATION

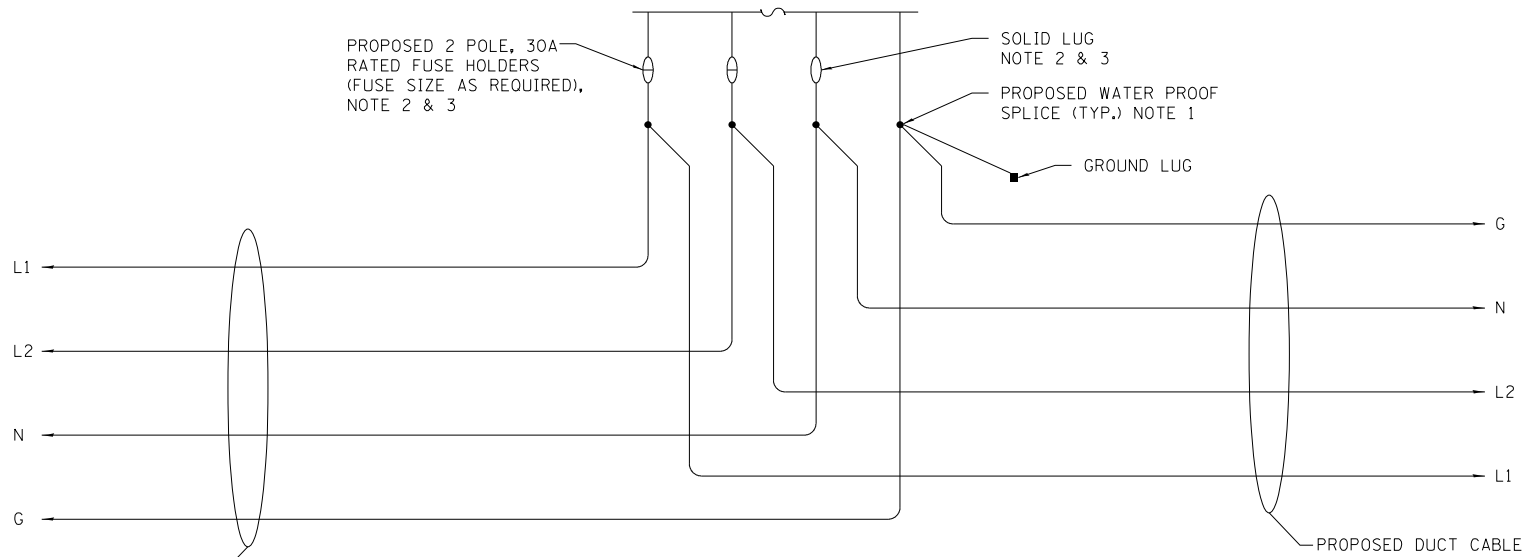




**TEMPORARY LIGHTING CONDUIT
CONNECTION TO EXISTING LIGHT TOWER**
N.T.S.

**TEMPORARY LIGHTING CONDUIT
CONNECTION TO EXISTING JUNCTION BOX**
N.T.S.

**PROPOSED LIGHT POLE CONNECTION
TO EXISTING JUNCTION BOX**
N.T.S.



**DETAIL 'A' EXISTING LIGHT TOWER
WIRING DIAGRAM**
N.T.S.

NOTES:

1. ALL SPLICES AT EXISTING LIGHT TOWERS, AND JUNCTION BOX SHALL BE INCLUDED AS PART OF THE MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.
2. ALL FUSES AND SOLID LUG MATERIALS INCLUDED AS PART OF THE MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.
3. CONTRACTOR SHALL USE EXISTING FUSES AND SOLID LUG FOR TEMPORARY LIGHTING CONNECTIONS ONLY, WHEN CONNECTING FINAL LIGHTING CIRCUITS CONTRACTOR SHALL PROVIDE NEW FUSES AND SOLID LUGS AS SHOWN.
4. ALL RISERS AND MATERIALS NEEDED TO ATTACH UNIT DUCT CABLE TO WOOD POLE SHALL BE PAID FOR BY MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.

FILE NAME = ...01020204-sht-09-11g-detail-09.dgn



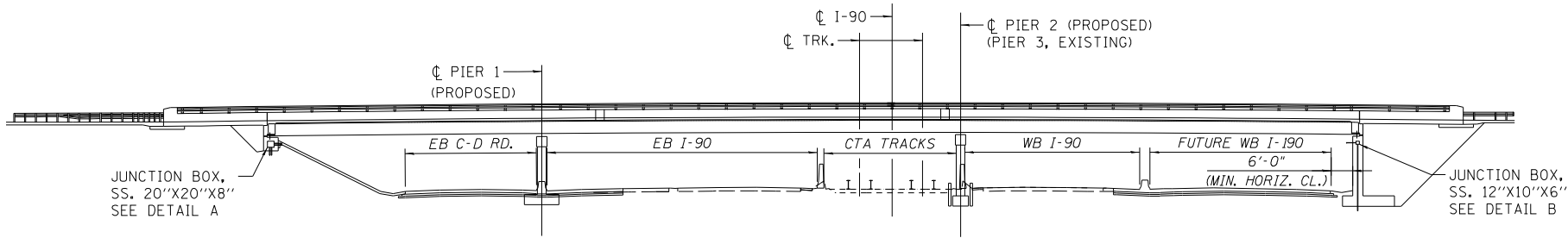
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	DRAWN - AA	REVISED -
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PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

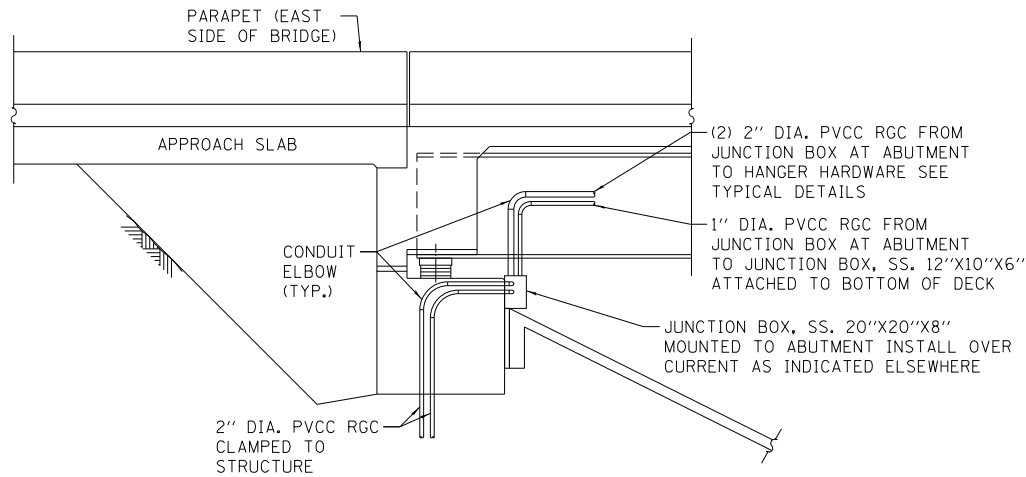
**IDOT ROADWAY LIGHTING
CONNECTION DETAILS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. 66+00.00 TO STA. 81+00.00

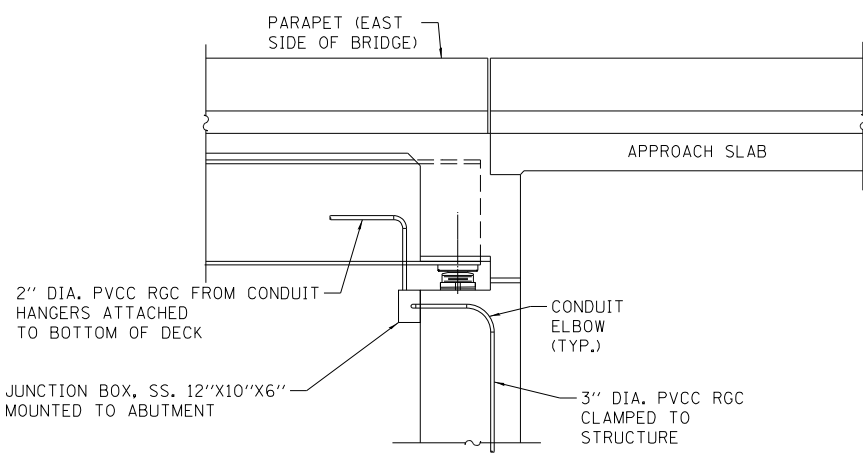
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	82
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				



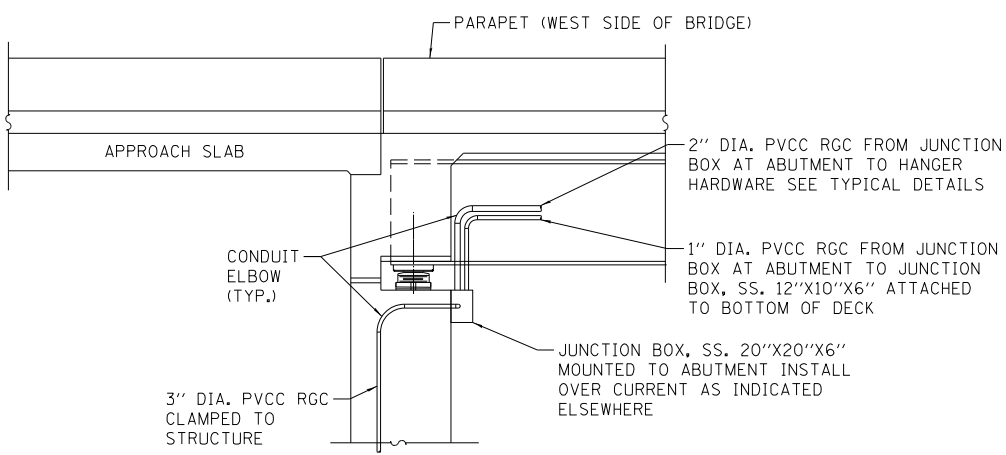
EAST SIDE ELEVATION
N.T.S.



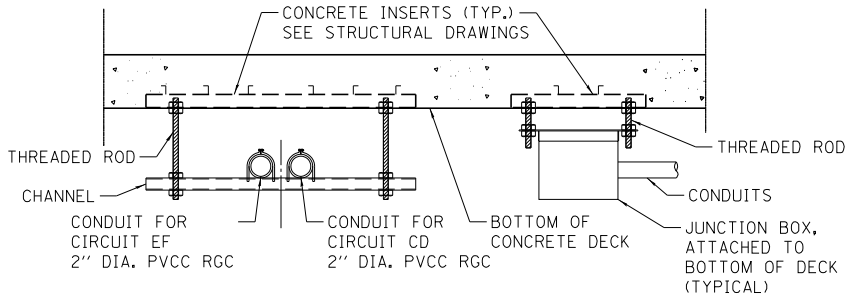
DETAIL A (EAST FACE
OF SOUTH ABUTMENT)
N.T.S.



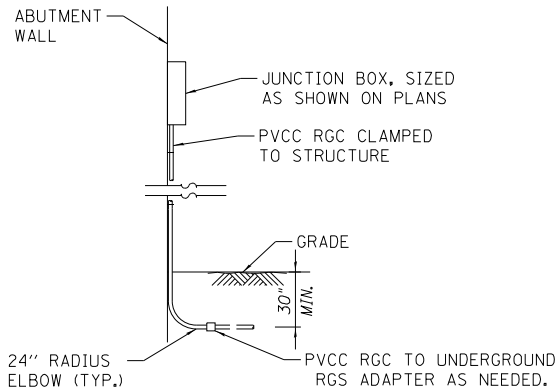
DETAIL B (EAST FACE
OF NORTH ABUTMENT)
N.T.S.



DETAIL C (WEST FACE
OF NORTH ABUTMENT)
N.T.S.



TYPICAL HANGER DETAILS FOR
CONDUITS AND JUNCTION BOX
N.T.S.



TYPICAL SIDE VIEW DETAIL
FOR ABUTMENT – EAST RIVER
N.T.S.

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 DIAMETER GALVANIZED STEEL, PVC COATED PAY ITEM.
- 2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RCC) TYPICAL.
- 3. SECURE THE CONDUIT WITH PVC COATED STAINLESS STEEL HANGERS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS. ALL PVC COATED CONDUIT HANGERS AND MATERIALS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIAMETER GALVANIZED STEEL, PVC COATED PAY ITEM.
- 4. TWO 2" PVCC RCC (ONE FOR THE UNIT DUCT COMING FROM THE WEST AND ONE FOR UNIT DUCT COMING FROM THE EAST) SHALL BE USED TO BRING UNIT DUCT CABLES UP THE JUNCTION BOX FOR UNDERPASS SYSTEM SPLICE CONNECTION.

FILE NAME = ...\\0126264-sht-10-1ty-detail-10.dgn



USER NAME = konykwo	DESIGNED - KFA	REVISED -
	DRAWN - AA	REVISED -
PLOT SCALE = 1.0000' / 1in.	CHECKED - MCD	REVISED -
PLOT DATE = 7/1/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT ROADWAY LIGHTING
EAST RIVER ROAD DETAILS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. 66+00.00 TO STA. 81+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	83
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

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, 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 1/4" ANCHOR RODS DRG. #818.
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA. 10" DIA. AND 15" B.C. 24"x9' FND. W/1 1/4" ANCHOR RODS DRG. #818 (16', 20' or 26' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 11" DIA. AND 17 1/4" B.C. 30"x9' FND. W/1 1/4" ANCHOR RODS DRG. #816. (30' M.A.)
		POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA. 12 1/2" DIA. AND 15 1/2" B.C. 30"x11' FND. W/1 1/2" 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 1/4" 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. #119.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DWG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DWG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DWG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" 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"x7' 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

PROPOSED	PRESENT	
		HANDHOLE, HEAVY DUTY, 36" I.D. (DWG. #866)
		HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D. (#867)
		MANHOLE, CITY 3'X4'X4' DWG. #729 or 730; 4'X6'X6' DWG. #732 or 733.
		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. #838)
		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)
		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
		TERMINAL, CABINET F.A. & P.C.
		FIRE ALARM BOX, MOUNTED
		FIRE ALARM BOX, POLE MOUNTED
		CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
		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
		CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 10/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 14/C-#12 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 19/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
		CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
		WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
		WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
		CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
		WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
		CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
		DOWNLIGHT ASSEMBLY. (DWG. #850)
		LIGHT, TRAFFIC SAFETY ISLAND
		FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES
PROPOSED EXISTING

		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)

C 04-01-02		REVISED/REDRAW		R. POOL/B. I.	
B 12-4-01		ADDED ORNAMENTAL SYMBOLS			
A 8-6-96		REDRAWN			
DATE		REVISION			
STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING					
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING					
DRAFTSMAN: R. IVY		CHIEF DRAFTSMAN: R. CARTER		ENGINEER: R. POOL/R.C.W.	
SUPERVISING ENGINEER:		ELEC. DESIGN-ENGR.		DWG. NO.	
ENGINEER OF ELECTRICITY:				826	
GEN'L. SUFF. OF CONSTRUCTION:					
DEPUTY COMMISSIONER:					
SIZE: 22"1 36"		SCALE:		DATE:	

EXISTING SYMBOL LEGEND:

- EXISTING GROUND MOUNTED POLE FOUNDATION AND POLE REFER TO BOE DRAWING #942
- EXISTING LUMINAIRE H.P.S.V. 310W LAMP, 240V
- EXISTING STREET LIGHTING CONTROLLER
- EXISTING PARAPET MOUNTED POLE

PROPOSED SYMBOL LEGEND:

- PROPOSED ALUMINUM DAVIT POLE GROUND MOUNTED REFER TO BOE DRAWING #942
- PROPOSED LUMINAIRE COBRA-HEAD, AERIAL, LED (400 WATT LAMP HPS EQUIVALENT), IES CUTOFF TYPE II/III DISTRIBUTION
- PROPOSED CONTROLLER, STREET LIGHTING PEDESTAL MOUNTED (DWG 876)
- PROPOSED ALUMINUM DAVIT POLE AND FOUNDATION FOR BRIDGE PARAPET WALL SEE BOE STANDARD DRAWING #975
- PROPOSED JUNCTION BOX PER STANDARD EMBEDDED TO BRIDGE STRUCTURE

PROPOSED SYMBOL LEGEND CONT'D:

- 2" PVC SCH 40 (B) IN BARRIER WALL
- 2" PVC SCH 40 (T) IN TRENCH
- 2" PVC SCH 80 (U) UNDER PAVEMENT
- AERIAL CABLE, 2-1/C #6, ALUMINUM, WITH MESSENGER WIRE
- PROPOSED 2*6 & 1*8 CONDUCTOR, EPR/HYPCON IN CONDUIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT LIGHTING GENERAL LEGEND
EAST RIVER ROAD

SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	84
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

E-11

FILE NAME = ...002654-sta-11-16-notes.dgn

HNTB

USER NAME = konyikwa	DESIGNED - KFA	REVISED -
	DRAWN - AA	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED - MCD	REVISED -
PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

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DEMOLITION NOTES:

1. CONTRACTOR SHALL FIELD INSPECT THE LOCATIONS AND CONDITIONS OF THE STREET LIGHTING EQUIPMENT TO BE REMOVED IN PRESENCE OF COMMISSIONER'S REPRESENTATIVE AND NOTE ANY DEFECTIVE PARTS PRIOR TO REMOVING ANY ITEM.
2. CONTRACTOR SHALL USE EXTREME CAUTION NOT TO DAMAGE ANY EQUIPMENT DURING THE REMOVAL OPERATION. IF ANY ITEMS ARE DAMAGED BY THE CONTRACTOR DURING THE REMOVAL, THEY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE COMMISSIONER.
3. REMOVE THE STREET LIGHTING EQUIPMENT SHOWN ON THE REMOVAL PLANS BEFORE BRIDGE DEMOLITION WORK IS STARTED, TRANSPORT THEM TO THE BOE YARD AFTER MAKING ARRANGEMENTS WITH BOE.
4. REMOVE CONDUIT AND CONDUCTORS AS SHOWN ON PLANS.

CDOT LIGHTING BILL OF MATERIALS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY
X0322141	REMOVE TEMPORARY WOOD POLE	EACH	1
X0324571	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	300
X0326133	TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	1
X0326326	CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	1395
X2080250	TRENCH BACKFILL, SPECIAL	CU YD	190
X5011100	FOUNDATION REMOVAL	EACH	3
X7340102	CONCRETE FOUNDATION, STREET LIGHTING CONTROLLER	EACH	1
X8050095	SERVICE INSTALLATION (SPECIAL)	EACH	1
X8100863	INTERCEPT EXISTING CONDUIT	EACH	2
X8130110	JUNCTION BOX (SPECIAL)	EACH	3
X8180060	AERIAL CABLE, 3-1/C NO. 2, ALUMINUM, WITH MESSENGER WIRE	FOOT	500
X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	6
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	1
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	2
X8410103	REMOVE TEMPORARY LIGHTING SYSTEM	LSUM	1
X8950085	REMOVE EXISTING LIGHTING CONTROLLER, SPECIAL	EACH	1
XX007584	CONDUIT, BORED AND PULLED, GALVANIZED STEEL, 2", SPECIAL	FOOT	295
XX008181	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3/C NO. 2 & 1/C NO. 8 GROUND	FOOT	400
XX008881	CONDUIT SPECIAL	FOOT	300



USER NAME = lsupencheck	DESIGNED - KFA/SM	REVISED -
	DRAWN - AA	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - MCD	REVISED -
PLOT DATE = 7/7/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

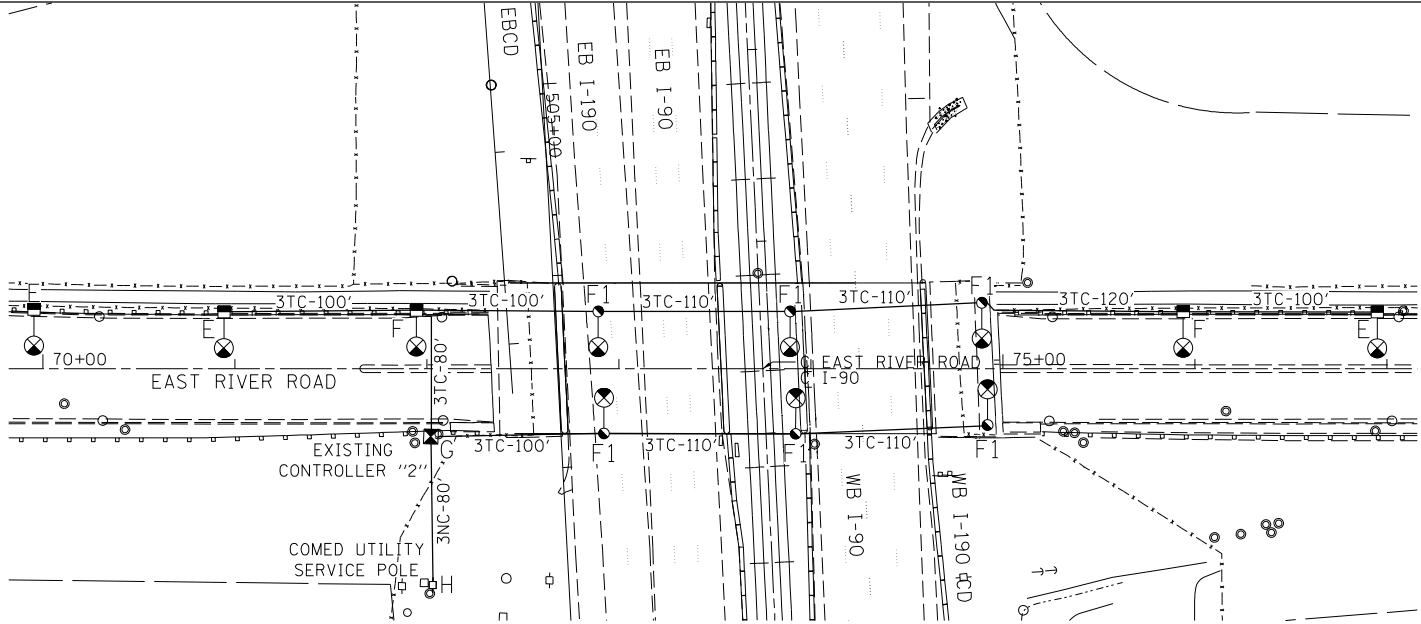
CDOT LIGHTING GENERAL NOTES,
AND BILL OF MATERIALS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	85
			CONTRACT NO. 62A64	
		ILLINOIS	FED. AID PROJECT	

LEGEND:

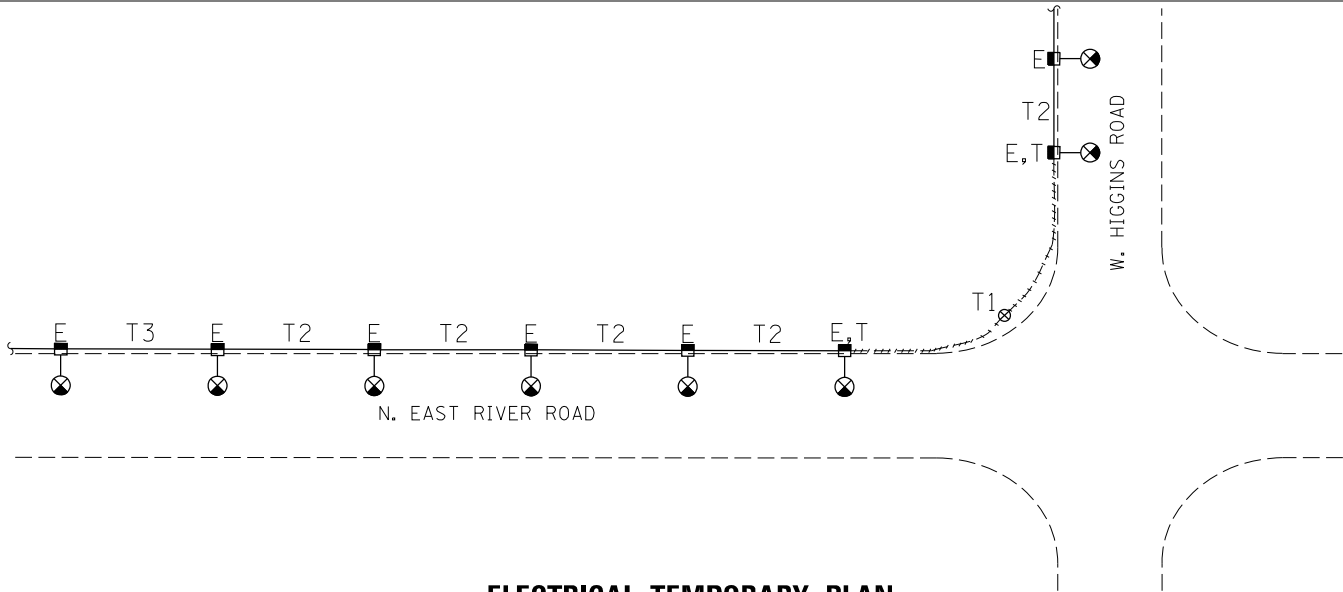
- "E" EXISTING TO REMAIN.
- "F" REMOVE AND SALVAGE EXISTING LIGHT POLE, LUMINAIRE AND MAST ARM. BREAKDOWN FOUNDATION COMPLETE.
- "F1" REMOVE AND SALVAGE EXISTING LIGHT POLE, LUMINAIRE AND MAST ARM.
- "G" REMOVE AND SALVAGE EXISTING LIGHTING CONTROLLER. BREAKDOWN FOUNDATION COMPLETE.
- "H"- REMOVE SERVICE CABLES.



ELECTRICAL REMOVAL PLAN

LEGEND:

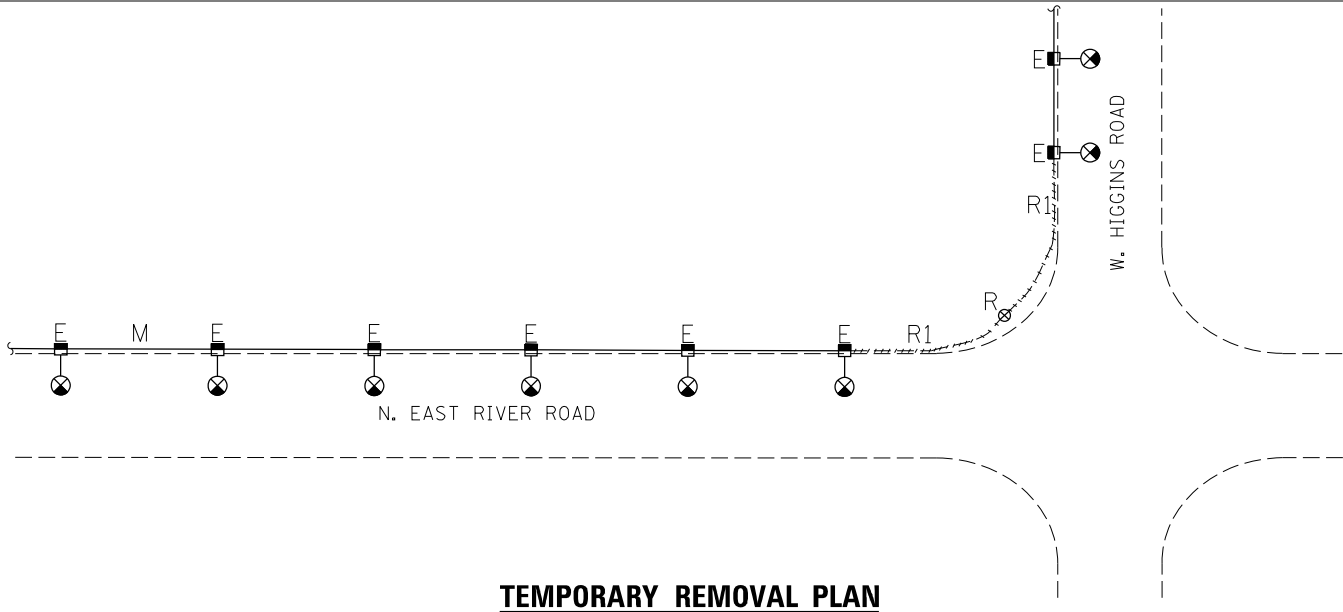
- "E" EXISTING TO REMAIN.
- "T" TEMPORARY ESTABLISH AERIAL CONNECTION TO EXISTING CDOT STREET LIGHT CONTROLLER ON HIGGINS AVE.
- "T1" INSTALL WOOD POLE AT SOUTH WEST CORNER OF HIGGINS AND EAST RIVER ROAD.
- "T2" EXISTING CONDUIT AND CABLE TO REMAIN AS-IS.
- "T3"- DISCONNECT EXISTING ROADWAY LIGHTING CIRCUIT SEAL CABLE ENDS WATER TIGHT, SECURE FOR LATER RE-TERMINATION.



ELECTRICAL TEMPORARY PLAN

LEGEND:

- "E" EXISTING TO REMAIN.
- "R" REMOVE WOOD POLE.
- "R1" REMOVE AERIAL CABLE.
- "M" MAKE SPLICE CONNECTION TO EXISTING LIGHTING CIRCUIT.



TEMPORARY REMOVAL PLAN

FILE NAME = ...01020204-sht-13-11g-rem.dgn

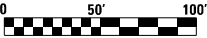


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	DRAWN - AHS	REVISED -
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PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT LIGHTING REMOVAL AND TEMPORARY PLAN EAST RIVER ROAD			
SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. 66+00.00 TO STA. 81+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	86
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

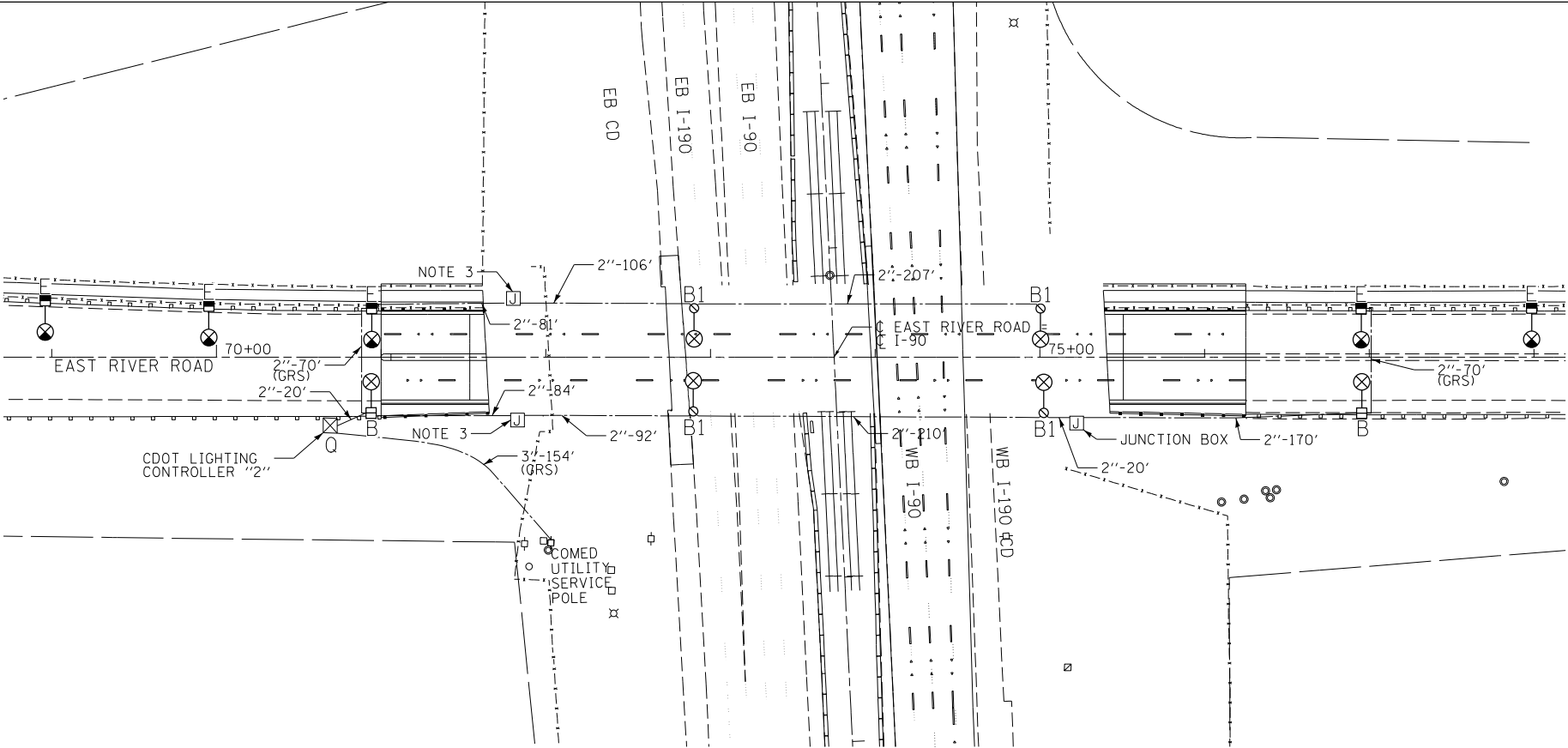


LEGEND:

- "B" INSTALL LIGHT POLE, LUMINAIRE AND MAST ARM PER DRAWING 942.
- "B1" INSTALL LIGHT POLE, LUMINAIRE AND MAST ARM PER DRAWING 975.
- "E" EXISTING TO REMAIN.
- "Q" INSTALL CDOT LIGHTING CONTROLLER PER DRAWING 876.

INSTALLATION NOTES:

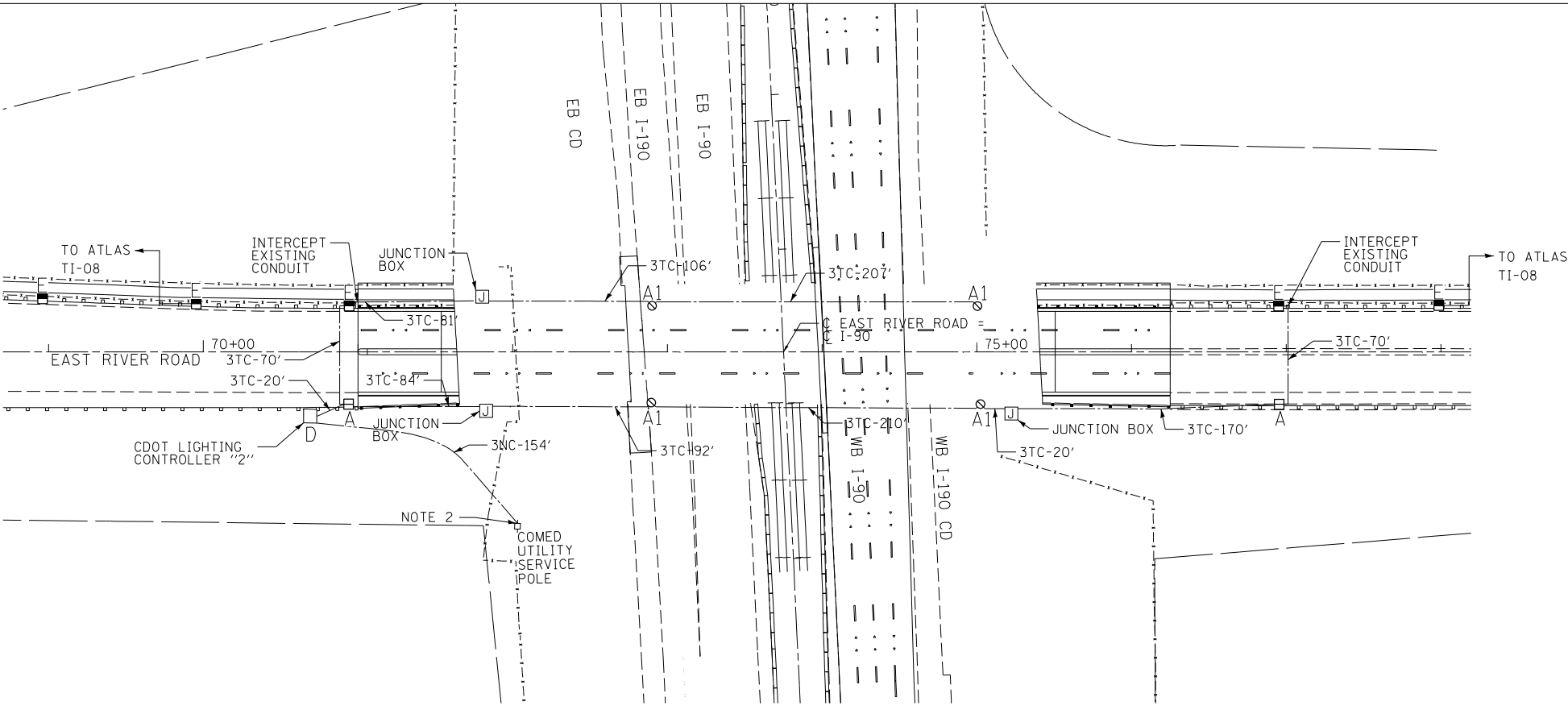
1. ALL CONDUIT FOR STREET LIGHTING MUST BE 2" PVC SCHEDULE (40) IF EMBEDDED IN BRIDGE WALL/PARAPET WALL, AND UNDER ROADWAY SHALL BE PVC SCHEDULE (80) UNLESS NOTED OTHERWISE.
2. INSTALL FOUNDATION IN BRIDGE WALL/PARAPET WALL WITH FOUR 1" X 60" STEEL ANCHOR BOLTS (#830) SET IN 1 1/2" DIAMETER BOLT CIRCLE.
3. PROPOSED JUNCTION BOX EMBEDDED IN BRIDGE STRUCTURE PER SHEET E-15.



ELECTRICAL CONDUIT AND EQUIPMENT INSTALLATION PLAN

GENERAL NOTES:

1. REFER TO BOE STANDARD DRAWING #826 FOR SYMBOLS AND LEGEND ON SHEET E-11.
2. THE NEW CONTROLLER "2" 3-1/C #2 SERVICE CABLES WILL BE TIED TO EXISTING COMED SERVICE EQUIPMENT PER CDOT DETAIL 11925.



ELECTRICAL CABLE AND FOUNDATION PLAN

LEGEND:

- "A" PROVIDE FOUNDATION FOR LIGHT POLE, PER DRAWING 818 & 837.
- "A1" LIGHT POLE FOUNDATION IS INTEGRAL TO BRIDGE PARAPET WALL.
- "D" PROVIDE CONTROLLER FOUNDATION PER DRAWING 837.
- "E" EXISTING TO REMAIN.

FILE NAME = \\D:\6264-spt-14-1\stdgn

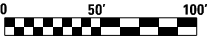


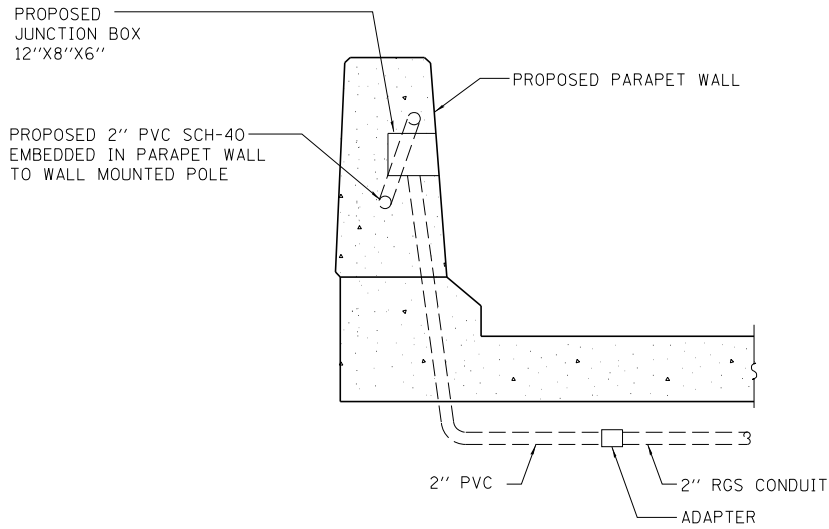
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PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT PROPOSED LIGHTING PLAN			
EAST RIVER ROAD			
SCALE:	SHEET 1 OF 1 SHEETS	STA. 66+00.00 TO STA. 81+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	87
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

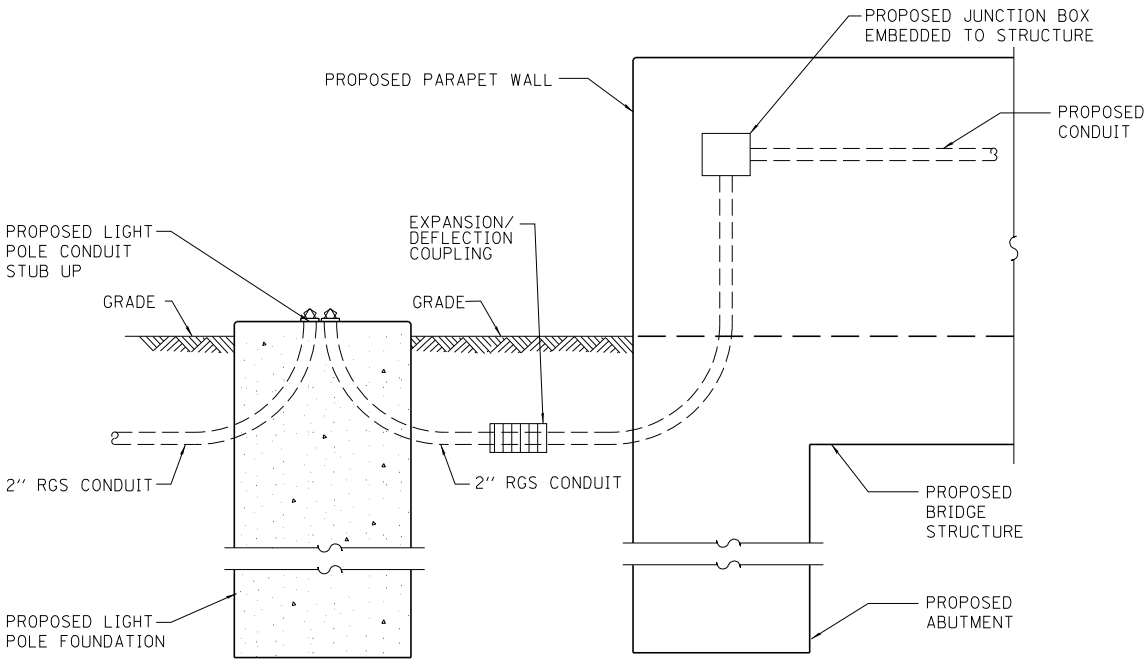




NOTES:

1. CONTRACTOR SHALL FOLLOW POLE UNIT DUCT MOUNTING TO FIND THE CONDUIT ENTERING THE PROPOSED JUNCTION BOX.

**PROPOSED JUNCTION BOX DETAIL
IN PROPOSED PARAPET WALL**
N.T.S.



**PROPOSED JUNCTION BOX DETAIL
ATTACHED TO PROPOSED STRUCTURE**
N.T.S.

FILE NAME = ...0162654-struct-15-light-detail.dgn

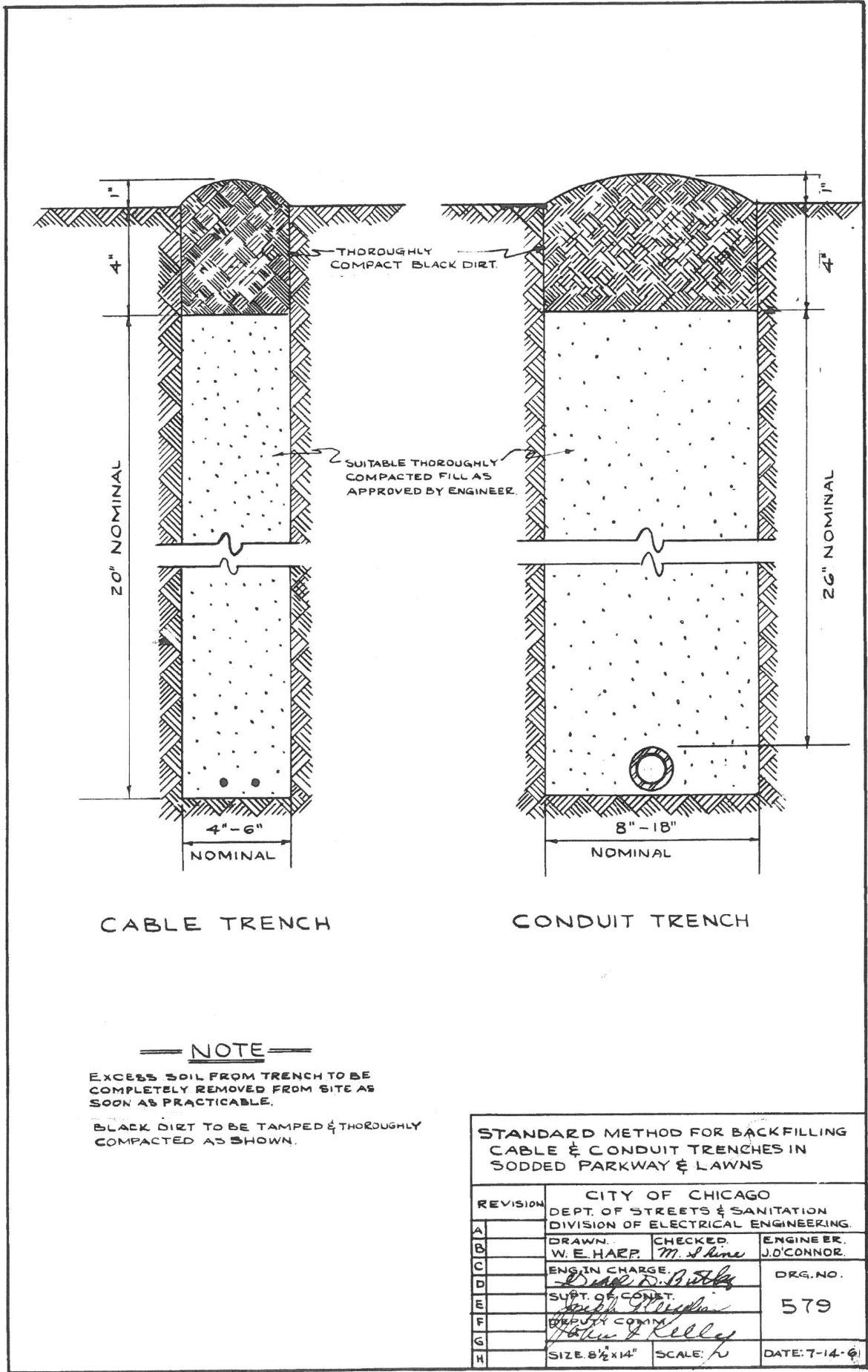


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PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT EAST RIVER ROAD BRIDGE LIGHTING CONNECTION DETAILS			
SCALE: NTS	SHEET 1 OF 1 SHEETS	STA. 66+00.00 TO STA. 81+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	88
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

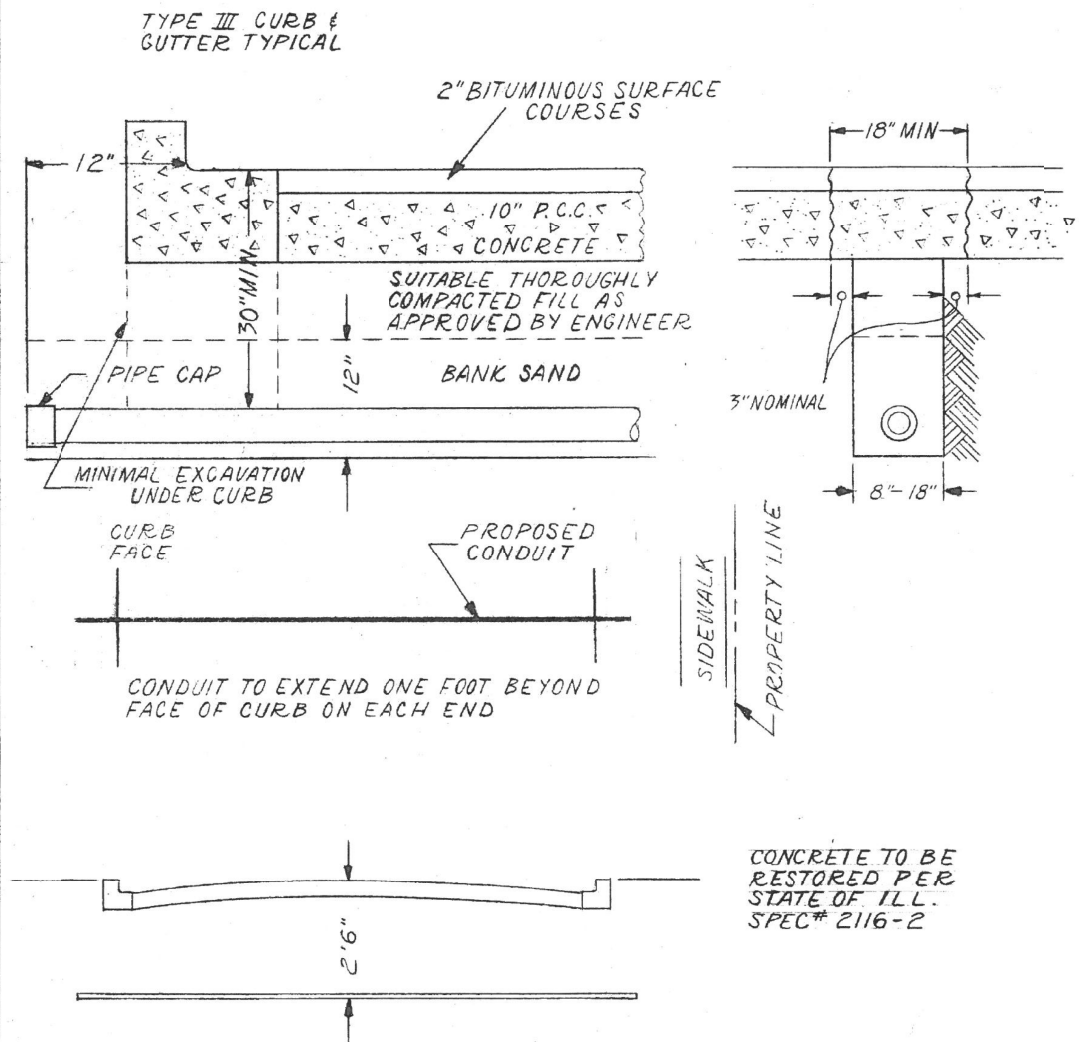
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

SHEET 1 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	89
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

CONDUIT INSTALLATION UNDER PAVED STREET



INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAWN A.M. JOHNSON	CHECKED R. SYCKOFSKI	ENGINEER R.L. MARTIN
THOMAS HELDRETH ENGINEER OF ELECTRICITY		813
CHARLES E. BIRCHLEY DEPUTY ENGINEER		3-13-81
SIZE 8 1/2" X 14"	SCALE N.T.S.	DATE

FILE NAME =
...01020204-sht-18-1tr-detail.dgn

HNTB

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PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

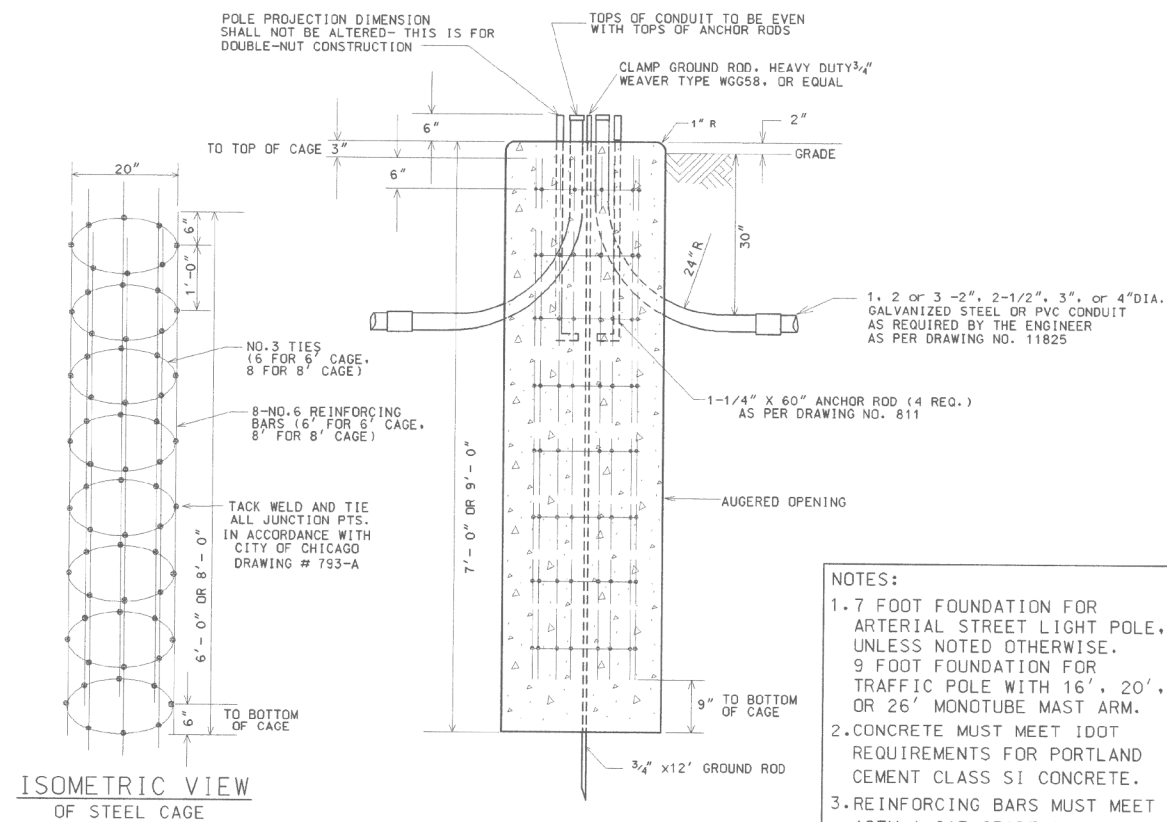
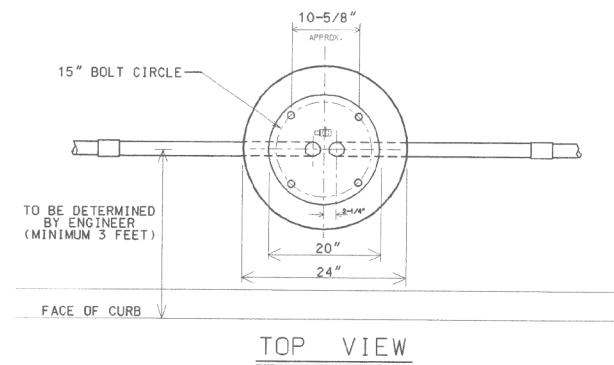
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

SHEET 3 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	91
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

E-18



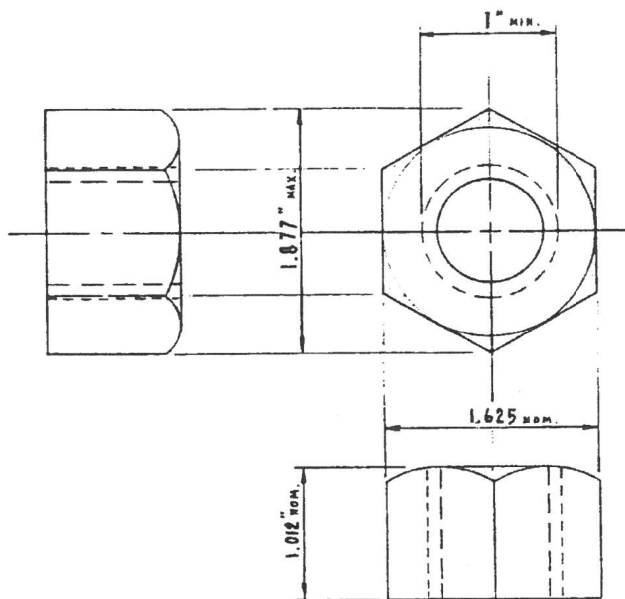
NOTE: HOLE FOR FOUNDATION
MUST BE AUGURED IN
UNDISTURBED SOIL

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" x 3", 4"	VARIABLES
37-8180-0200	ANCHOR ROD	1-1/4" X 60"	4
05-5054-6910	RE-BAR CAGE	20" 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"	VARIABLES

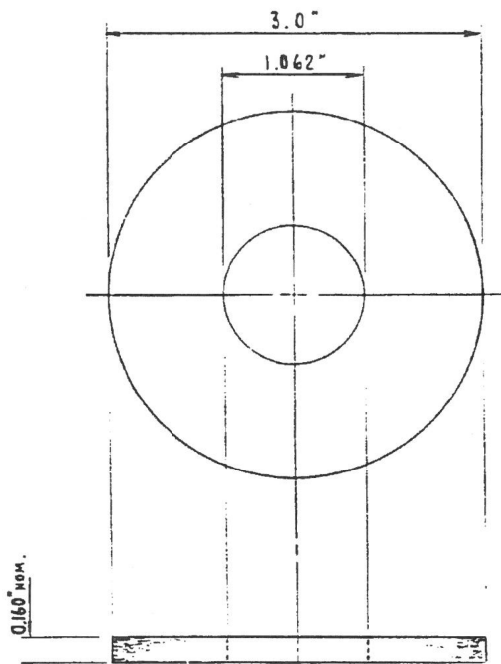
NOTES:

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 DOT REQUIREMENTS FOR PORTLAND CEMENT CLASS SI CONCRETE.
3. REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

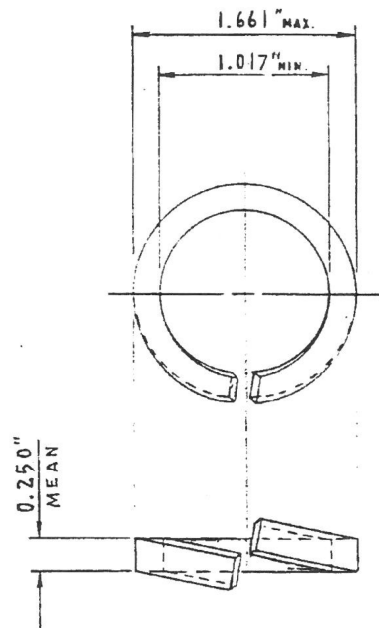
8/21/02	SUPERCEDES DWG #818 DRAWN 4/21/81
DATE	REVISION
<p align="center">FOUNDATION FOR 34'-6" ARTERIAL STREET LIGHT OR TRAFFIC SIGNAL POLE - 3 OR 7 GAUGE WITH 15' BOLT CIRCLE</p> <p align="center">CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING</p> <p> DRAFTSMAN: B. GARNSEY CHIEF DRAFTSMAN: R. CARTER ENGINEER: B. GARNSEY ELECTRICAL DESIGN ENGINEER DRAWING NO. 818 </p> <p>ENGINEER OF ELECTRICITY</p> <p>GENERAL SUPERINTENDENT</p> <p>DEPUTY COMMISSIONER</p> <p> SIZE: 11" x 17" SCALE: NONE DATE: 8/21/02 </p>	



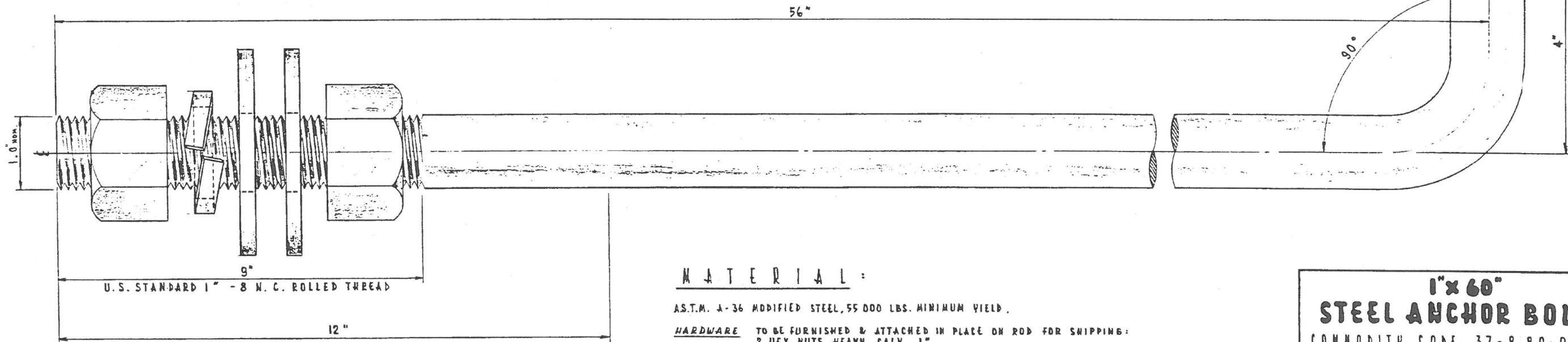
HEXAGON NUT
AMER. NAT'L. STD. HEAVY HEX. FLAT NUT
(ANSI B 18.2.2 - 1972)



FLAT WASHER
AMER. NAT'L. STD. TYPE "B"
SERIES "W"
(ANSI B 18.22.1-1965, R1975)



LOCK WASHER
AMER. NAT'L. STD. HELICAL SPRING LOCK WASHER, REGULAR
(ANSI B 18.21.1 - 1972)



A ZINC COATING, 0.0021 INCH IN THICKNESS
SHALL BE APPLIED OVER THIS LENGTH AND
COVERED WITH HEAVY NO-OX-ID, OR EQUAL,
RUST INHIBITING COMPOUND

MATERIAL:

AS.T.M. A-36 MODIFIED STEEL, 55 000 LBS. MINIMUM YIELD.

HARDWARE

TO BE FURNISHED & ATTACHED IN PLACE ON ROD FOR SHIPPING:
2 HEX. NUTS, HEAVY, GALV., 1",
2 WASHERS, STEEL, ROUND, GALV., TYPE "B", SERIES "W", 1",
1 WASHER, LOCK, STEEL, GALV., HELICAL SPRING, REGULAR, 1".

BOLT & NUTS SHALL HAVE AN AMERICAN STANDARD CLASS 2 OR 3 FIT.
(NUT IS TAPPED OVERSIZE BY 1/32")

1" x 60"
STEEL ANCHOR BOLT
COMMODITY CODE 37-8 80-0220

REVISED		CITY OF CHICAGO		
		DEPT OF STREETS AND SANITATION		
		BUREAU OF ELECTRICITY		
		DIVISION OF ELECTRICAL ENGINEERING		
REDRAWN	A 9-6-1983	DRAWN: EUGENE GERULIS	CHECKED: A. DUKLISKI	ENGINEER: M. SHINE
	B	ELC. DESIGN ENGINEER: mshane		DRG. NO. 830
	C	ENGINEER & ELECTRICIAN: Thomas M. M...		
	D	DEPUTY COMMISSIONER: Charles P. Buckley		
	E			
	F			
	G	SIZE 17" x 26"	SCALE	DATE SEP. 8, 1983

FILE NAME = ...0102064-sha-20-1ty-detail.dgn

HNTB

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	DRAWN - AA	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED - MCD	REVISED -
PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

SHEET 5 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	93
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

E-20

T A B L E							
T I N U	ANCHOR BOLT SIZE						
	1"	1 1/4"	1 1/2"	3/4"			
	POLE GAUGES						ALUM. PED.
	7 GA.	3 GA.	7 GA.	3 GA.	7 GA.	3 GA.	
A	7/16"	7/16"	1 1/8"	1 5/16"	1 1/8"	7/8"	3/4"
B	1"	1"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	3/4"
C	1/4"	1/4"	5/16"	5/16"	3/8"	3/8"	3/16"
D	5/32"	5/32"	1/4"	1/4"	1/4"	1/4"	5/32"
E	1"	1"	1 1/4"	1 1/2"	1 1/2"	1 3/4"	5/8"

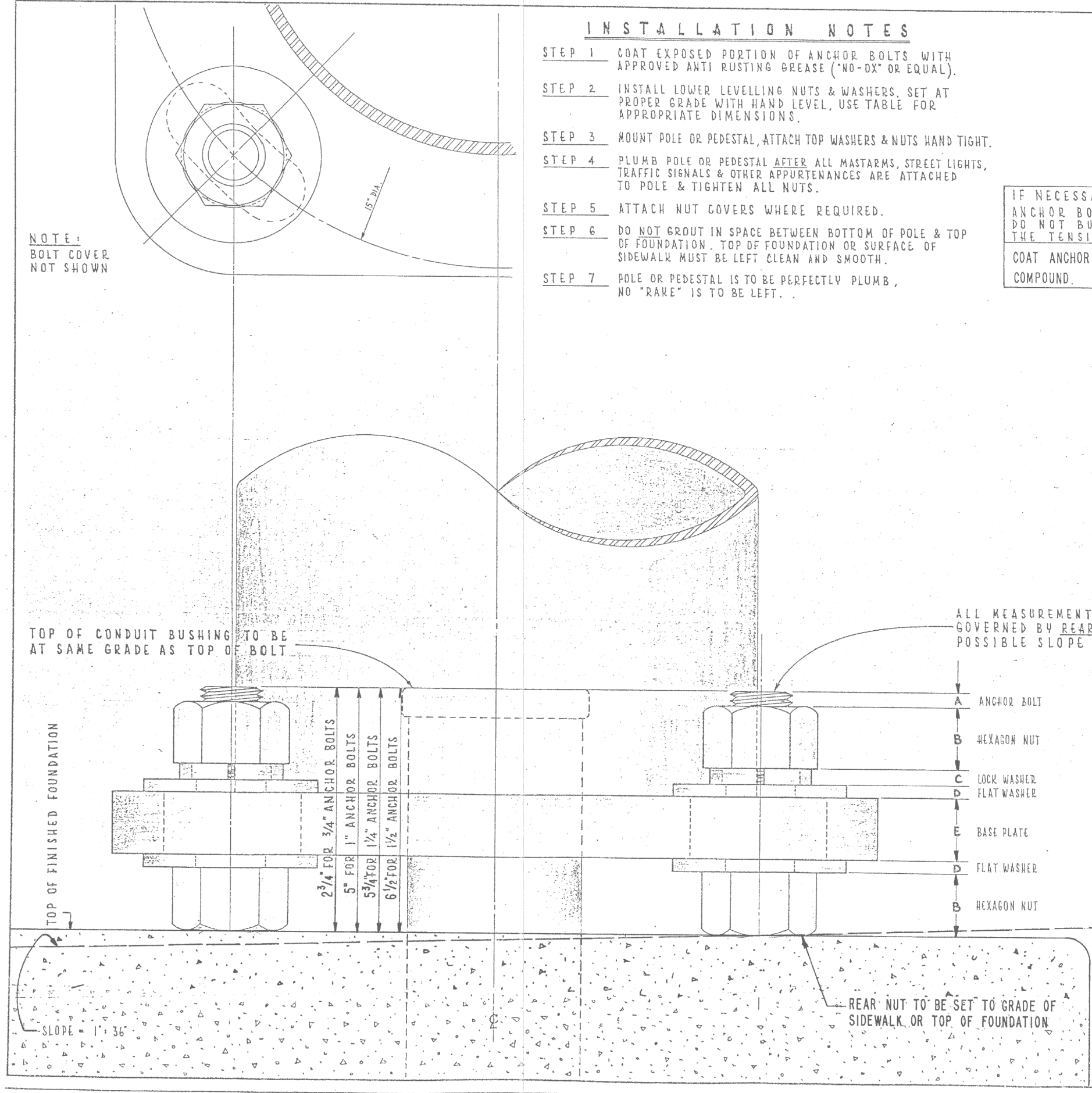
- INSTALLATION NOTES**
- STEP 1 COAT EXPOSED PORTION OF ANCHOR BOLTS WITH APPROVED ANTI RUSTING GREASE ("NO-OX" OR EQUAL).
- STEP 2 INSTALL LOWER LEVELLING NUTS & WASHERS. SET AT PROPER GRADE WITH HAND LEVEL, USE TABLE FOR APPROPRIATE DIMENSIONS.
- STEP 3 MOUNT POLE OR PEDESTAL, ATTACH TOP WASHERS & 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.

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

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

DRAFTSMAN: EUGENE GERULIS	CHIEF DRAFTSMAN: R. J. S.	ENGINEER: M. J. S.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	I. W. G. M.D.
ENGINEER OF ELECTRICITY: Michael A. Shum	837	
GEN'L. SUPT. OF ELECTRICITY		
DEPUTY COMMISSIONER: Ronald A. Gray		
SIZE: 22 1/2	SCALE: 1" = 1'	DATE: 6-7-85



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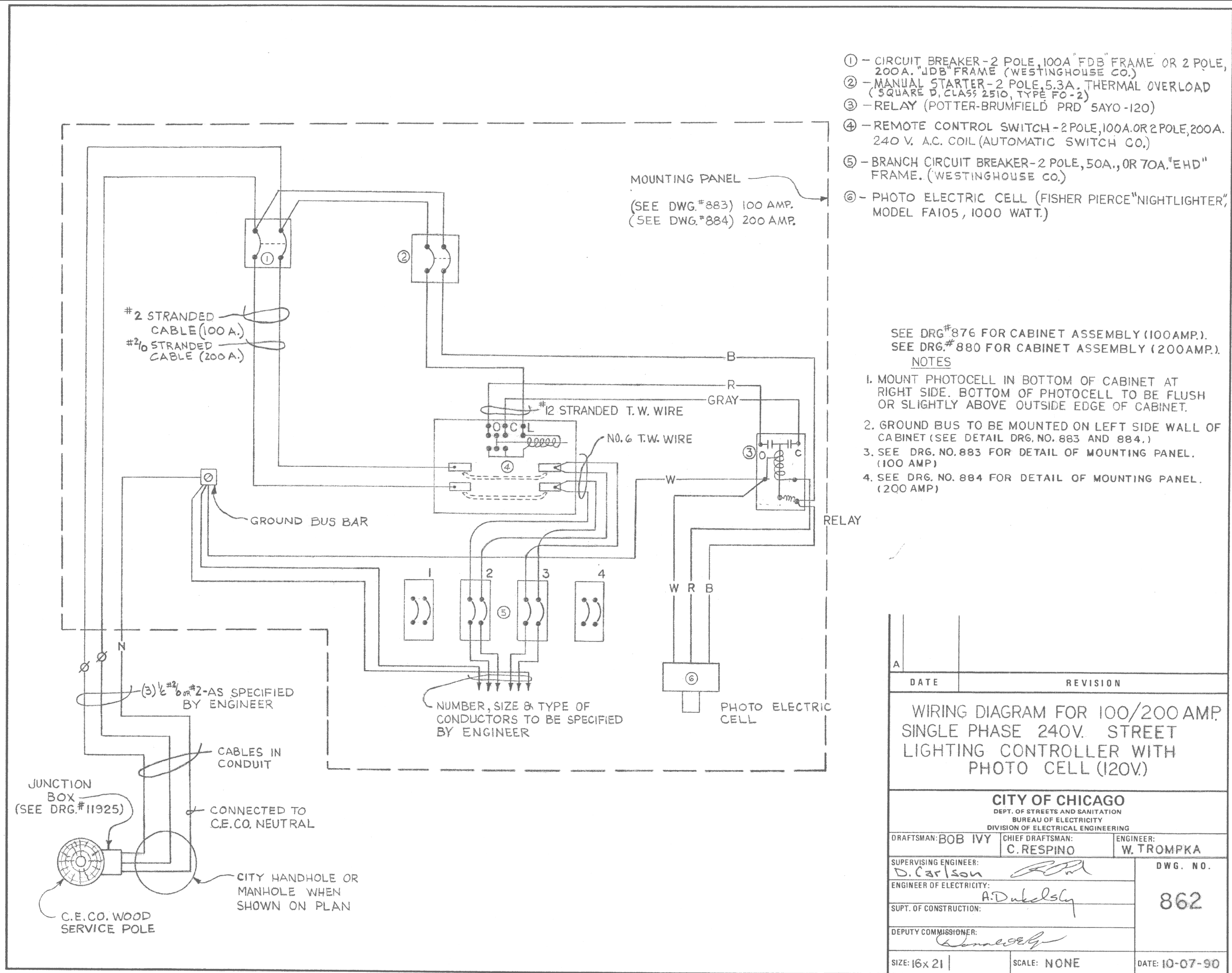
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

SHEET 6 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	94
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				



HNTB

USER NAME - kangikwa	DESIGNED - KFA	REVISED -
	DRAWN - AA	REVISED -
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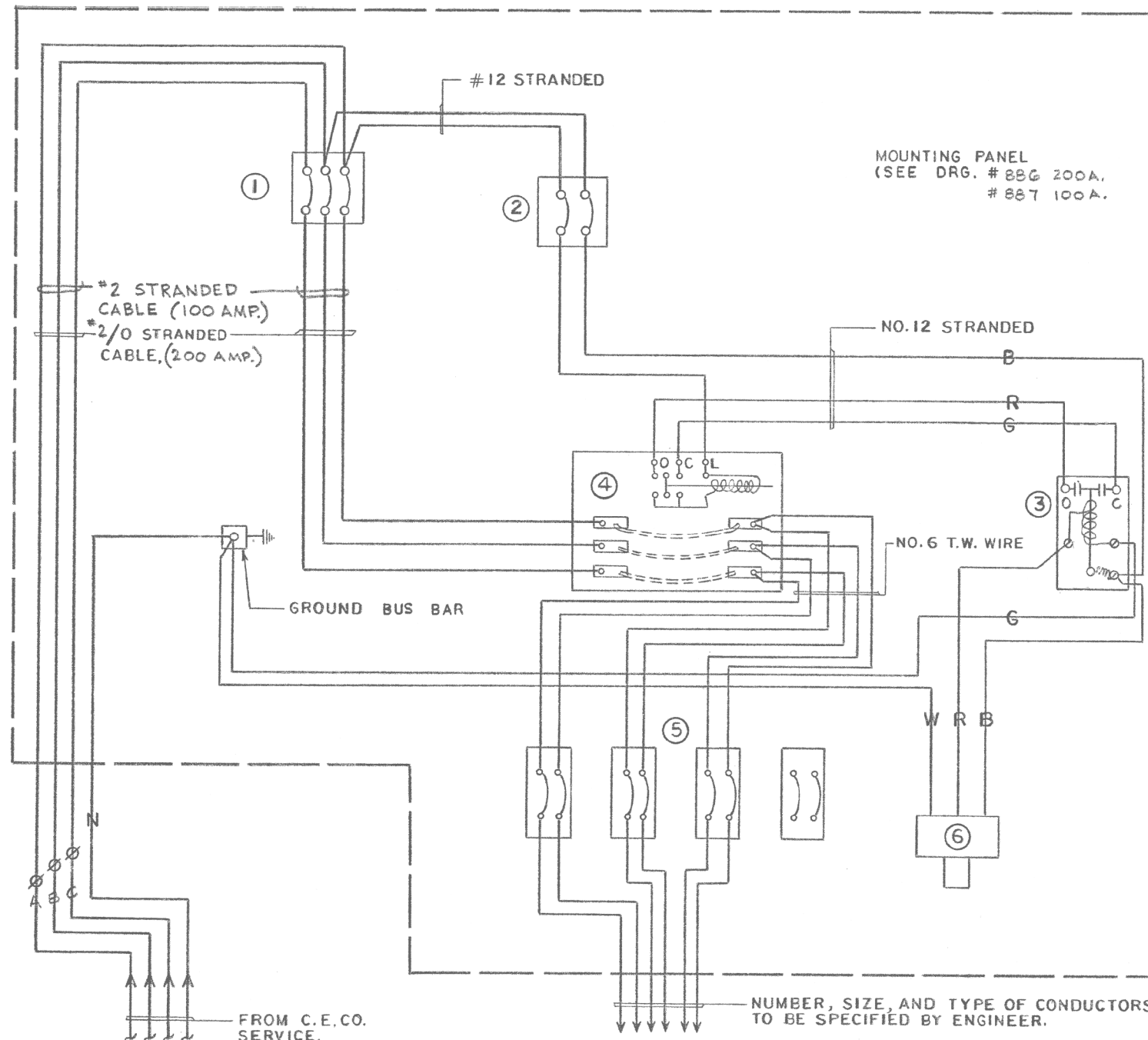
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

SHEET 7 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	95
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

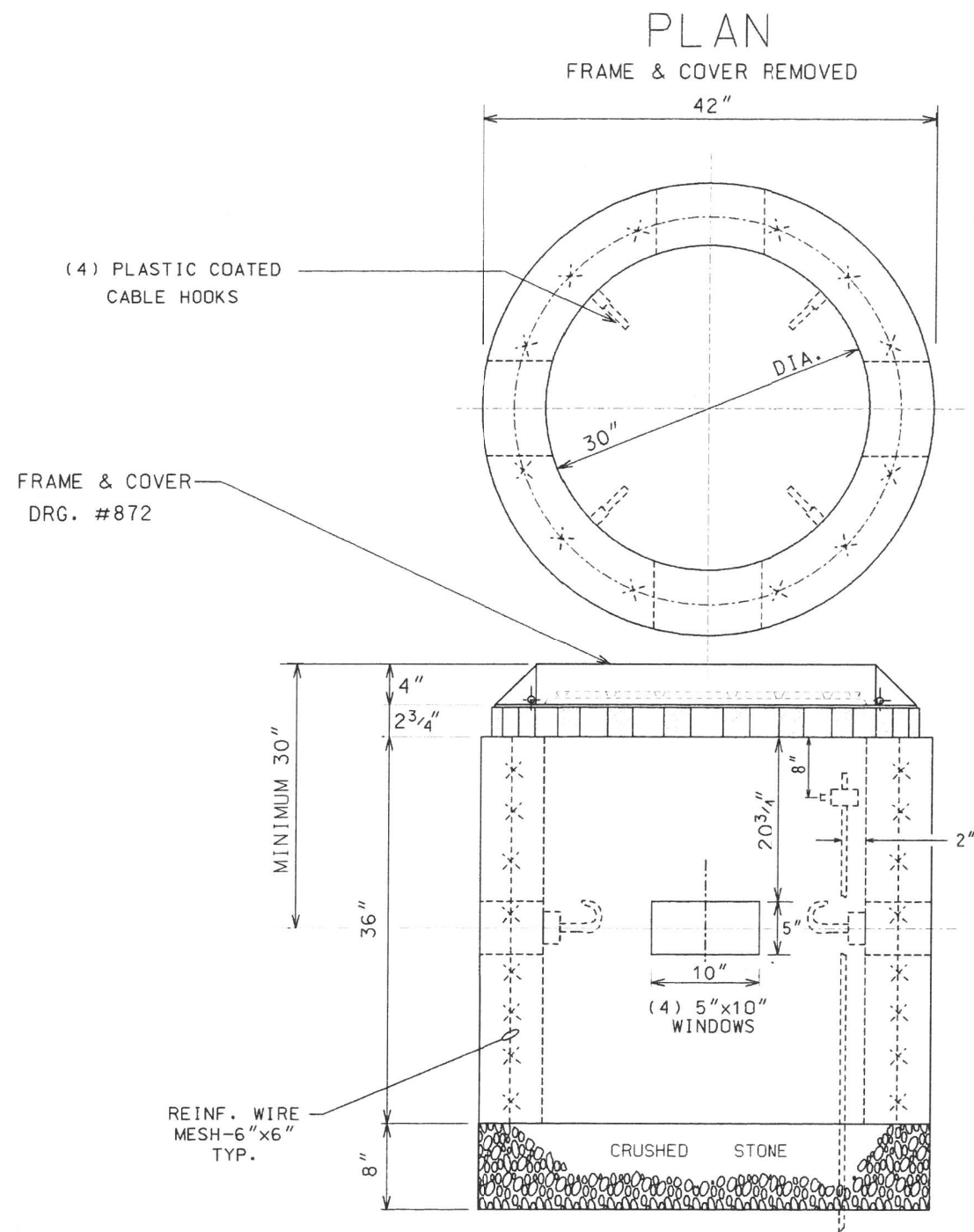
E-22



- ① CIRCUIT BREAKER - 3 POLE, 100A. "FDB" FRAME OR 200A. "JDB" FRAME (WESTINGHOUSE CO.)
- ② - MANUAL STARTER - 2 POLE, 5.3A. THERMAL OVERLOAD (SQUARE D CLASS 2510, TYPE FO-2)
- ③ - RELAY (POTTER, BRUMFIELD PRD 5AYO-120)
- ④ - REMOTE CONTROL SWITCH - 3 POLE, 100A. OR 200A. 240 V. AC. COIL. (AUTOMATIC SWITCH CO.)
- ⑤ - BRANCH CIRCUIT BREAKER - 2 POLE, 50A., OR 70A. "EHD" FRAME. (WESTINGHOUSE CO.)
- ⑥ - PHOTO ELECTRIC CELL DARK TO LIGHT MODEL DB120 - 1.5 HT 105 - 130 VAC 60HZ.

- SEE DRG. NO. 876 FOR CABINET ASSEMBLY.
- MOUNT PHOTO-CELL IN BOTTOM OF CABINET AT RIGHT SIDE, BOTTOM OF PHOTO-CELL TO BE FLUSH OR SLIGHTLY ABOVE OUTSIDE EDGE OF CABINET.
- GROUND BUS TO BE MOUNTED ON LEFT SIDE WALL OF CABINET (SEE DETAIL DRG. # 887 DRG. # 886

DATE		REVISION	
WIRING DIAG. FOR 100/200 AMP. THREE PHASE 120/208V. STREET LIGHTING CONTROLLER WITH PHOTO-CELL CONTROL.			
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN: SHAKIL AHMED		CHIEF DRAFTSMAN: CARMEN RESPIN	
		ENGINEER: W. TROMKA.	
SUPERVISING ENGINEER: <i>D. Carlson</i>		ELEC. DESIGN ENGR. <i>[Signature]</i>	
ENGINEER OF ELECTRICITY: <i>A. Dukelsky</i>		DWG. NO. 864	
GEN'L. SUPT. OF ELECTRICITY			
DEPUTY COMMISSIONER: <i>[Signature]</i>			
SIZE: 17" x 22"		DATE: 10/14/90	
		SCALE: NONE	



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" CRJSHED	BAG	5
(2) 05-5082-5330	SOND TUBE	30"	1
(2) 05-5082-5342	SOND TUBE	42"	1
(2) 05-3267-2940	CONC. REDI-MIX	CU. YD.	1 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.

B	01-23-00	ADDED CABLE HOOKS PER COMMISSIONER MURPHY	(RC/RD)
A	12-8-95	REDRAW (CAD)	MP.
DATE		REVISION	
30" DIA. CONCRETE HANDHOLE			
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICAL ENGINEERING DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN: M. PATTON	CHIEF DRAFTSMAN: B. CARTER	ENGINEER: TROMPKA	
SUPERVISING ENGINEER:	ELEC. DESIGN ENGINEER:	DESIGNER:	DEBARTOLO
ENGINEER OF ELECTRICAL ENGINEERING			DWG. NO.
DEPT. SUP'T. OF ELECTRICITY			867
DEPT. COMMISSIONER			
SIZE: 11"	17"	SCALE: NONE	DATE: 12-8-95

FILE NAME =
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HNTB

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	DRAWN - AA	REVISED -
PLOT SCALE = 1.0000' / in.	CHECKED - MCD	REVISED -
PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

SHEET 9 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	97
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

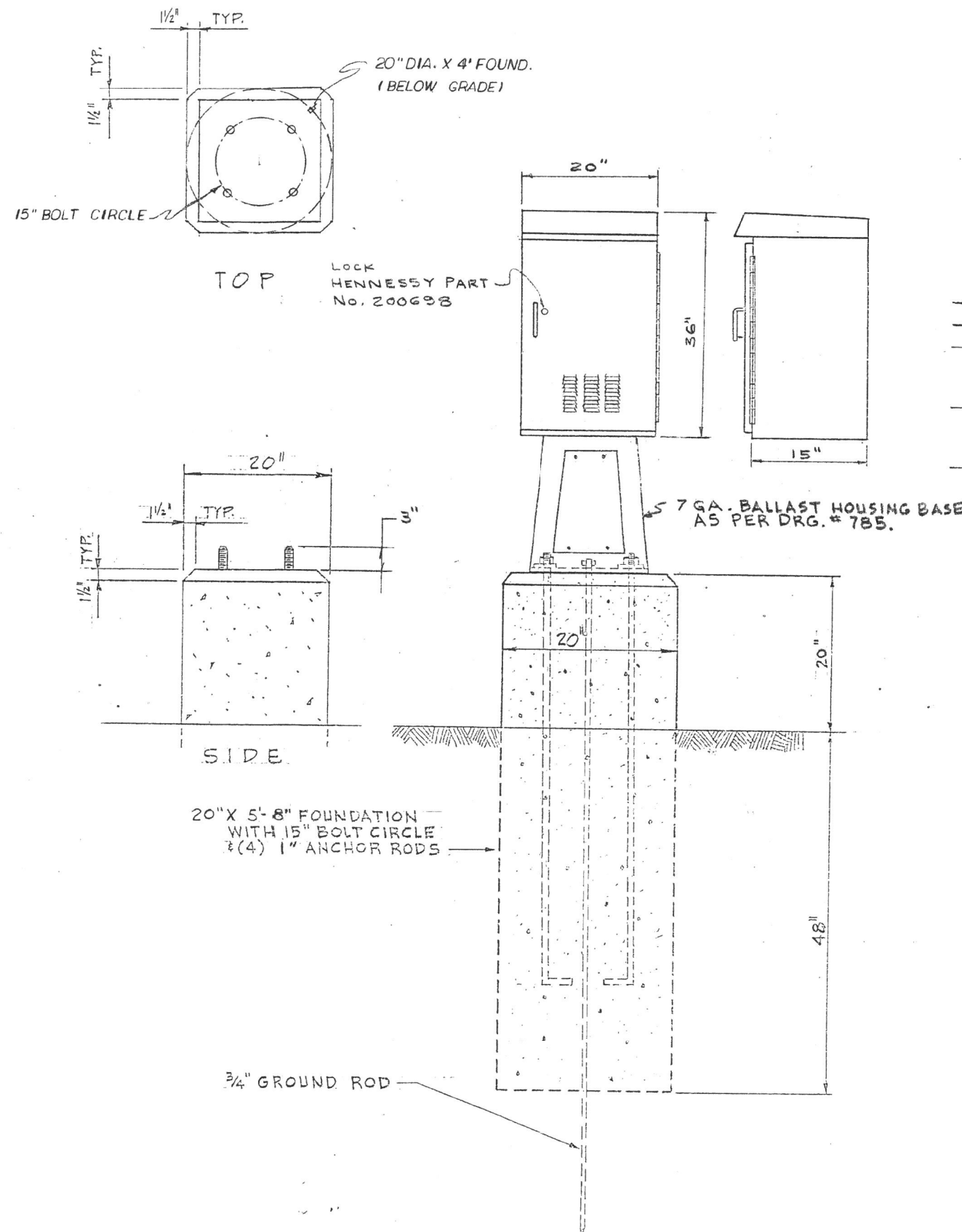
E-24

CODE	DEG.	MATERIAL	SIZE	QUANT.
05-5082-5324		FIBER FORM	20" ϕ	4'
05-3267-2940		CONCRETE	CU. YD.	0.7
37-8150-0232	311	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
		CABINET ALUMINUM	36" x 20" x 15"	1
37-2130-4280	785	BALLAST HOUSING BS	1'-4" x 1'-8"	1

NOTE:

HENNESSY "3B" CABINET #212373 OR
U.L. APPROVED EQUIVALENT.

- SEE DRAWING # 883 FOR ELECTRICAL PANEL DETAILS.
- SEE DRAWINGS # 862 & 864 FOR WIRING DIAGRAM.
- 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 DRS.



A 4-26-93		CAB. NO. CHANGED - CITY NAME REMOVED	
DATE		REVISION	
100 AMP. BASE MOUNTED STREET LIGHT CONTROLLER			
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN: W. TROMPKA	CHIEF DRAFTSMAN: C.R.	ENGINEER: M. DE BARTOLO	DWG. NO.
SUPERVISING ENGINEER: D. Carlson	ELEC. DESIGN ENGR.		
ENGINEER OF ELECTRICITY: A. Dubelsky		876	
GEN'L. SUPT. OF ELECTRICITY			
DEPUTY COMMISSIONER: G. B. G. G.			
SIZE 16	21	SCALE: 1" = 1'-0"	DATE:

HNTB

USER NAME = kanykwa	DESIGNED - KFA	REVISED -
	DRAWN - AA	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED - MCD	REVISED -
PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

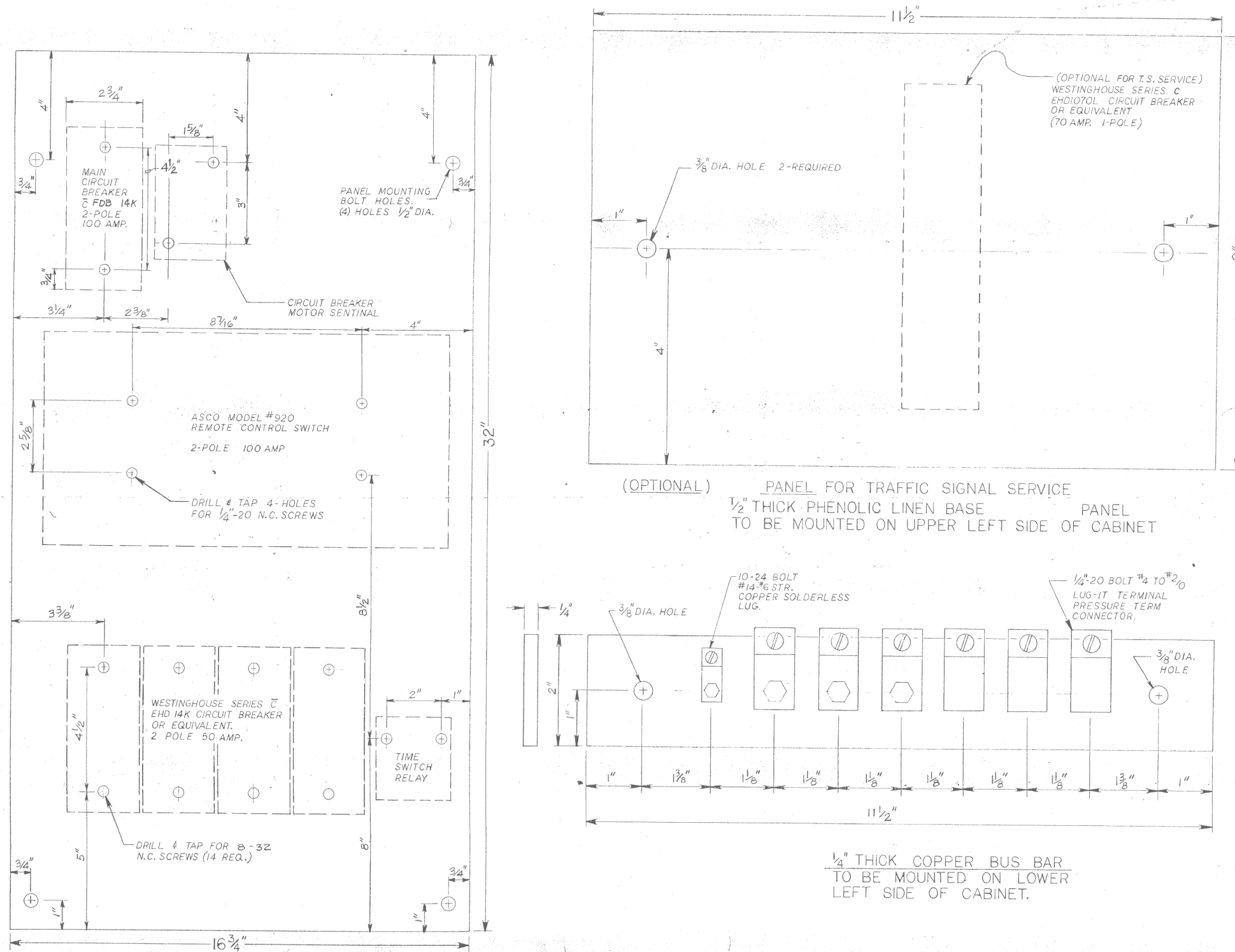
SHEET 10 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	98
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

E-25

APPROVED AS WORKING PLAN BY	FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISIONS OF WORKING PLAN	FWHA REG. NO.	ILLINOIS	PROJECT		

- SEE DRG.#876 FOR CABINET DETAILS.
- SEE DRG.#862 FOR WIRING DIAGRAM.



BACK PANEL
1/2" THICK PHENOLIC LINEN
BASE

DATE		REVISION	
WORK ORDER NO.		DATE	
COST ALLOCATION ACCOUNT			
APPROPRIATION ACCOUNT		MATERIAL	
		LABOR	
PANELS FOR 100 AMPERE 2-POLE SWITCHING EQUIPMENT IN STREET LIGHT CONTROL CABINET			
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN: B. IVY	CHIEF DRAFTSMAN: C. RESPINO	ENGINEER: M. DEBARTOLO	
SUPERVISING ENGINEER: D. Carlson	ELEC. DESIGN ENGR.	DWG. NO.	
ENGINEER OF ELECTRICITY: A. Dulsky		883	
GEN'L. SUPT. OF ELECTRICITY: [Signature]			
DEPUTY COMMISSIONER: [Signature]			
SIZE:	SCALE: NONE	DATE: 01/01/90	

HNTB

USER NAME = kanyikwa	DESIGNED - KFA	REVISED -
	DRAWN - AA	REVISED -
PLOT SCALE = 1.0000' / 1 in.	CHECKED - MCD	REVISED -
PLOT DATE = 3/19/2015	DATE - 03/20/2015	REVISED -

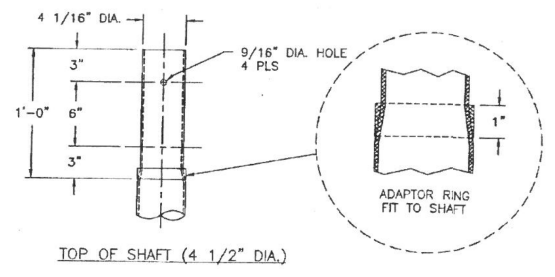
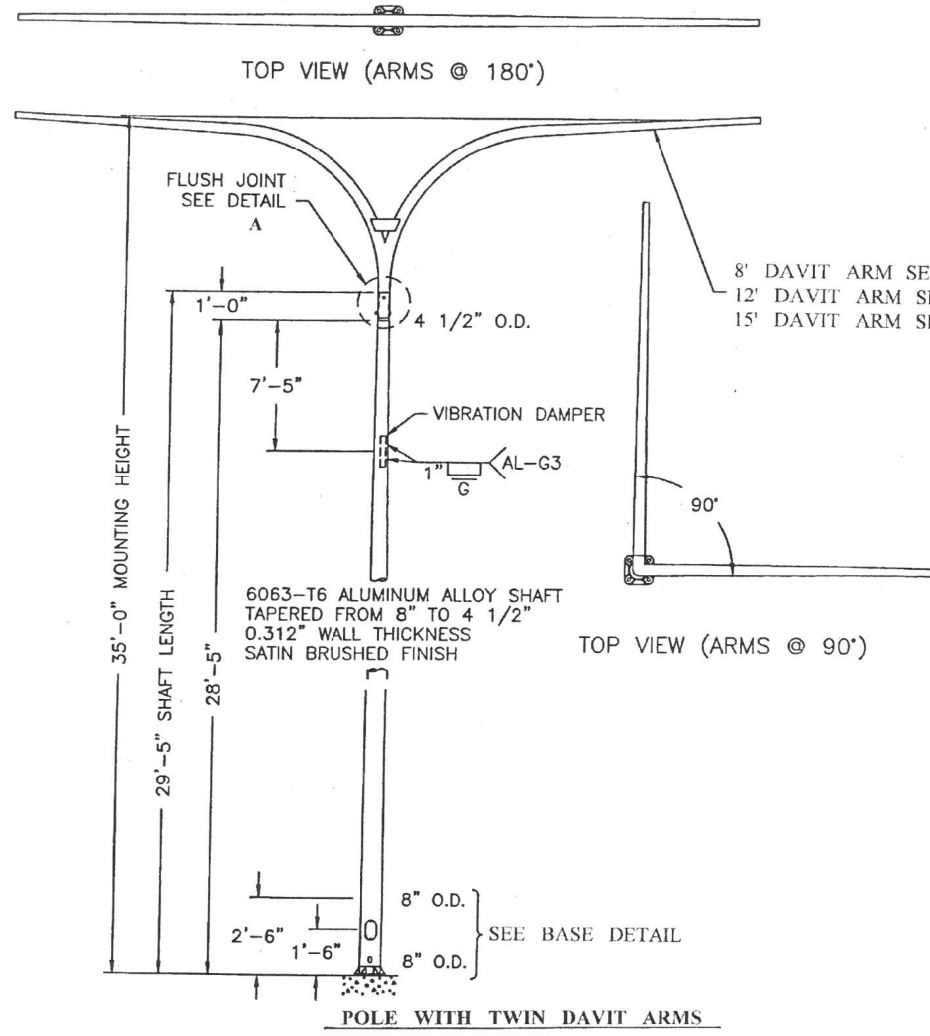
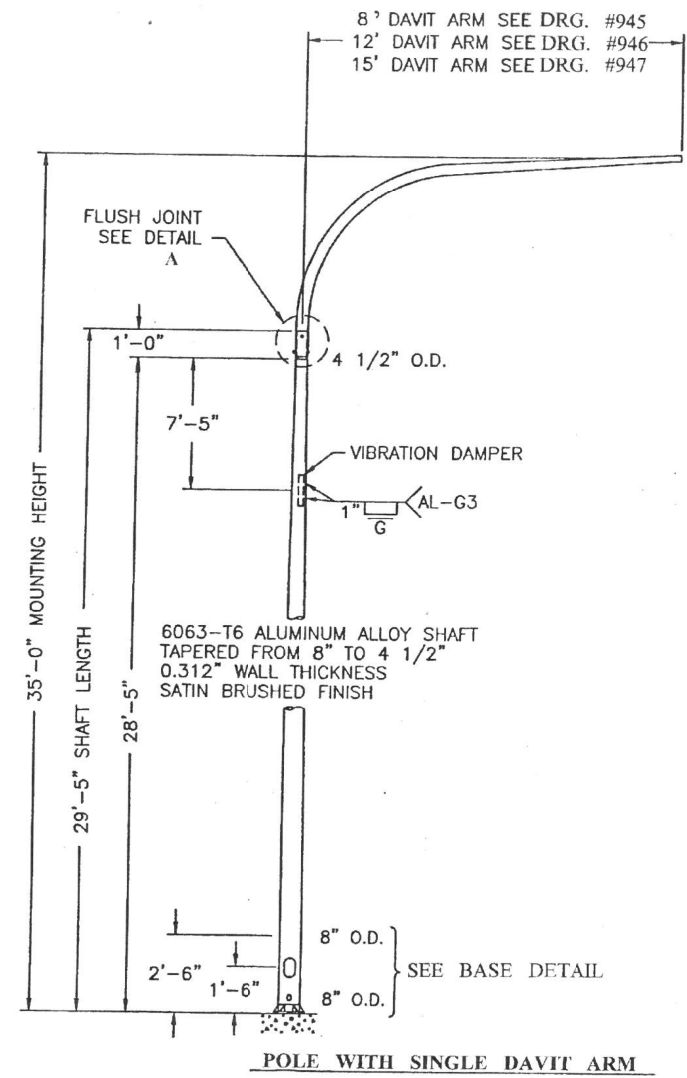
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

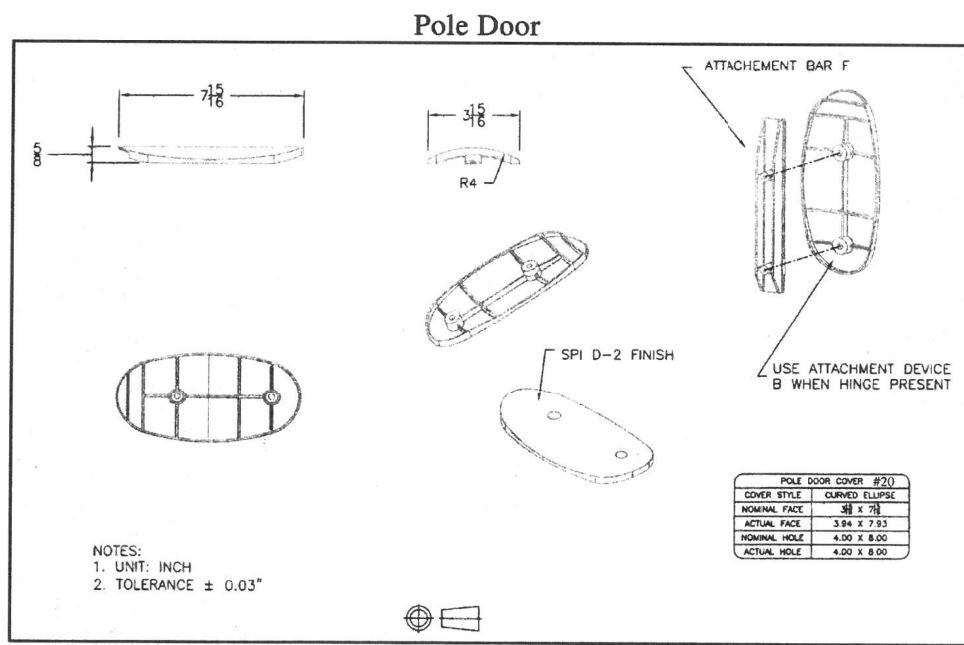
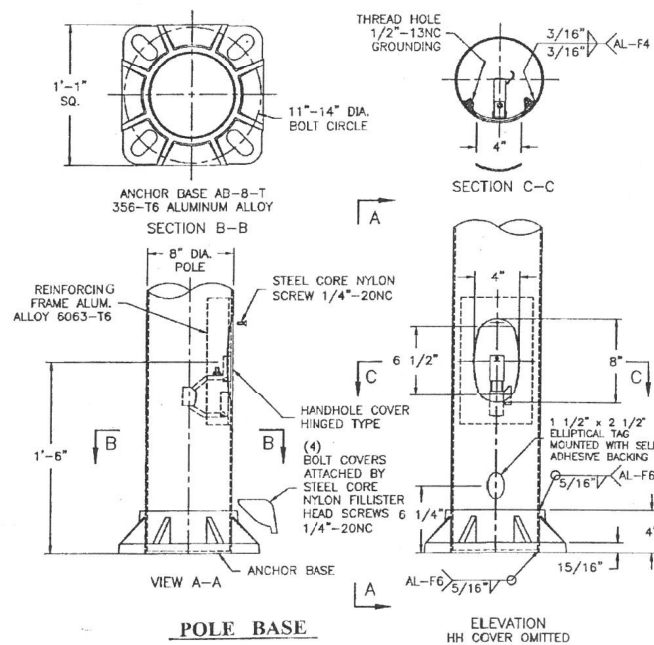
SHEET 11 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	99
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				

E-26



DETAIL A



ALUMINUM DAVIT POLE			
8" x 4.5" x 29'-5"			
FOR CHICAGO SKYWAY			
CITY OF CHICAGO			
DEPT. OF STREETS AND SANITATION			
BUREAU OF ELECTRICITY			
DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:	
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO.	
ENGINEER OF ELECTRICITY:		942	
GEN'L. MGR. OF ELECTRICITY:		DATE: 1-27-02	
DEPUTY COMMISSIONER:		SCALE:	
SIZE:	DATE: 1-27-02		

FILE NAME: ...002654-sha-27-11g-detail.dgn

HNTB

USER NAME: kanyikwa	DESIGNED: KFA	REVISED: -
	DRAWN: AA	REVISED: -
PLOT SCALE: 1.0000' / in.	CHECKED: MCD	REVISED: -
PLOT DATE: 3/19/2015	DATE: 03/20/2015	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT ELECTRICAL DETAILS
EAST RIVER ROAD

SHEET 12 OF 15 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90	1617B(13)	COOK	223	100
CONTRACT NO. 62A64				
ILLINOIS FED. AID PROJECT				