

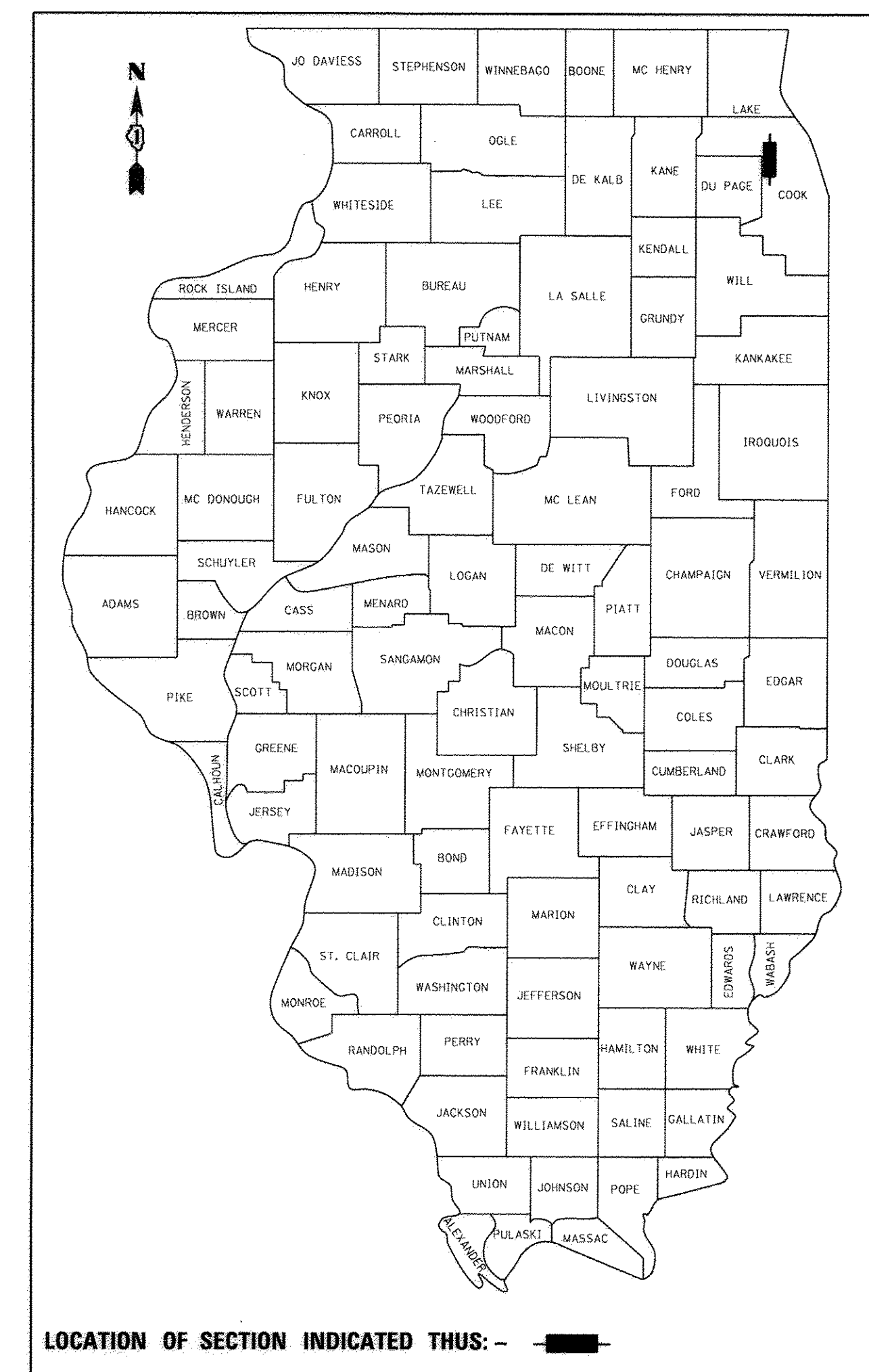
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	1
FED. ROAD DIST. NO. 1	ILLINOIS CONTRACT NO. 61D25			

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

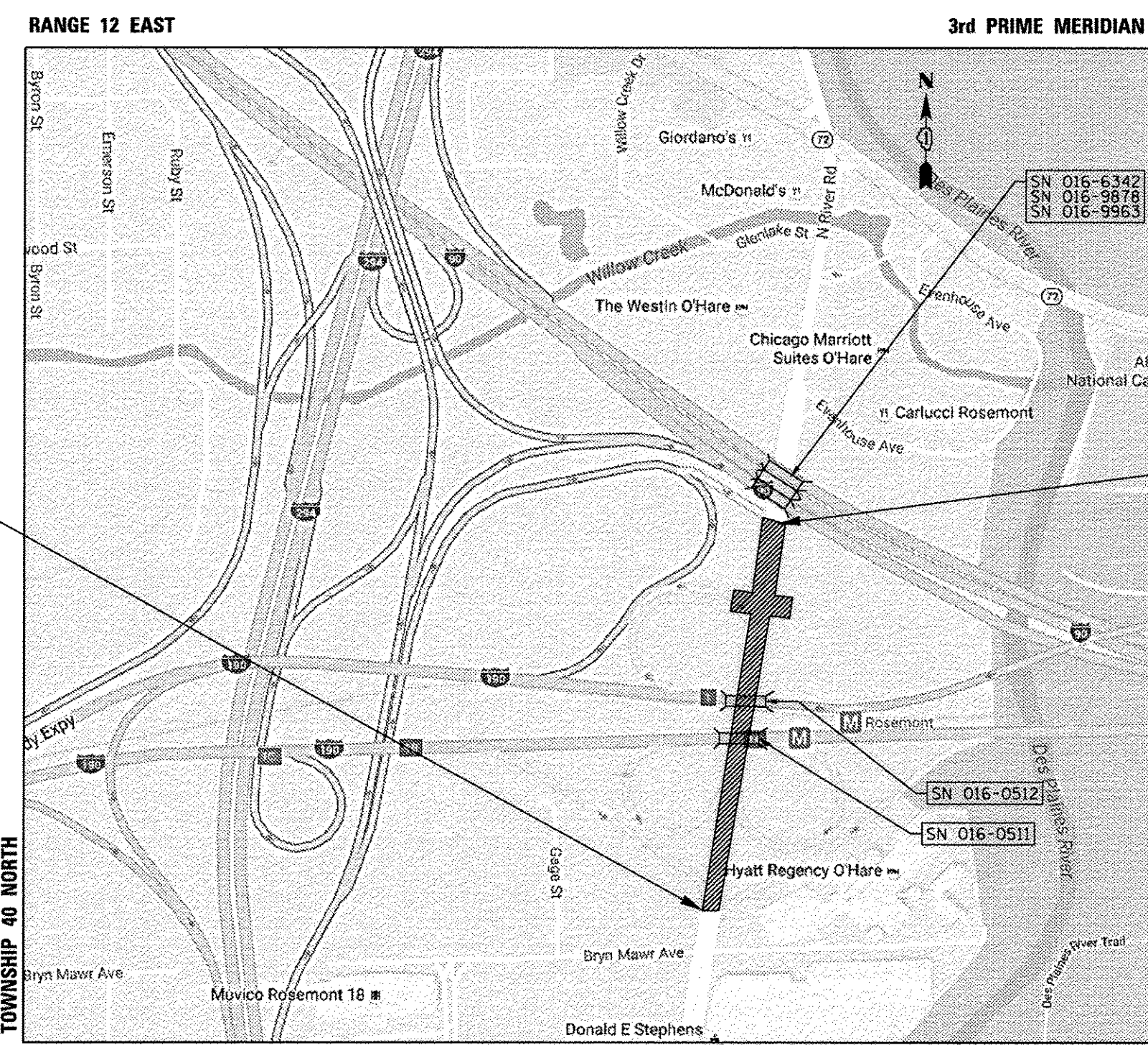
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 8522 (DES PLAINES RIVER ROAD)  
AT INTERSTATE-190 WB RAMP  
TRAFFIC SIGNAL, CHANNELIZATION, LIGHTING  
SECTION: 13-00032-00-TL  
PROJECT CMM-4003(677)  
VILLAGE OF ROSEMONT  
COOK COUNTY  
JOB NO. C-91-208-16



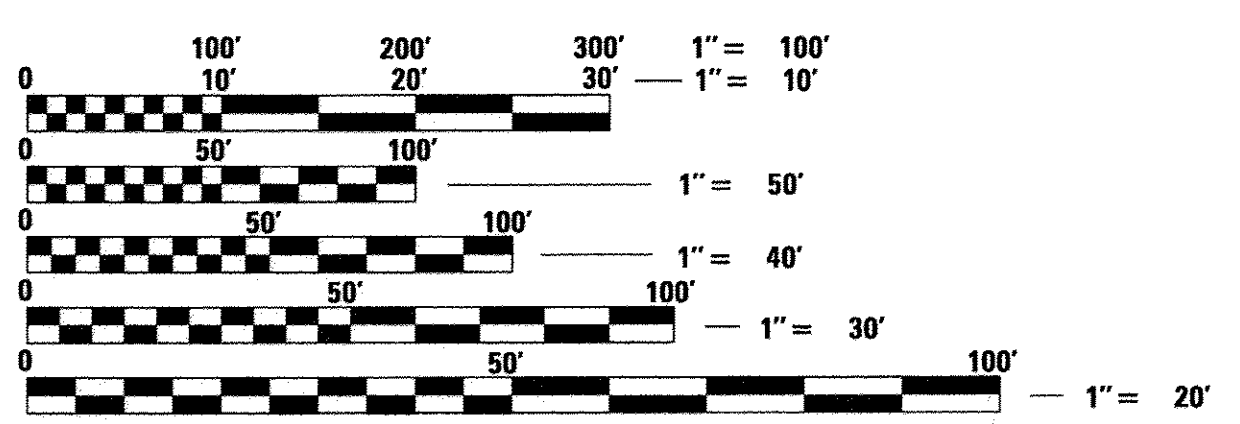
TRAFFIC DATA

ROUTE SEGMENT	SPEED (MPH)	ADT (2014)	CLASSIFICATION
DES PLAINES RIVER ROAD	35	31,400	MINOR ARTERIAL



BEGINNING OF PROJECT  
RIVER ROAD  
STA. 35 + 00

END OF PROJECT  
RIVER ROAD  
STA. 54 + 00



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

**CB** CHRISTOPHER B. BURKE ENGINEERING, LTD.  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

PROFESSIONAL DESIGN FIRM No.: 184-001742  
EXPIRATION DATE: 04-30-2017  
**CONTRACT NO. 61D25**

LEYDEN TOWNSHIP  
GROSS LENGTH = 800 FT. = 0.15 MILES  
NET LENGTH = 800 FT. = 0.15 MILES

*George M. Ziegler* 10/17/2016  
ENGINEER DATE  
GEORGE M. ZIEGLER  
ILLINOIS REGISTRATION No. 062-045853  
EXPIRATION DATE: 11-30-2017

FOR SHEETS 41-50  
*Anthony J. DeRicco*  
8-29-16  
EXPIRES 11-30-17

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

APPROVED *[Signature]* October 17 2016  
VILLAGE OF ROSEMONT

PASSED *[Signature]* OCTOBER 28 2016  
CHRISTOPHER HOLT  
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW *[Signature]* October 28 2016  
REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, PE, 847-705-4406 SCHAUMBURG, IL

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**HIGHWAY STANDARDS**

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESSED CORNER FOR SIDEWALKS
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
635001-02	DELINEATORS
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF ROAD OPERATIONS, MULTILANE, 15 FT TO 24" FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701427-05	LANE CLOSURE MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS LESS THAN 40MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARDS PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
877006-05	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

**GENERAL NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES, THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 FOR UTILITY LOCATIONS.
2. THE CONTRACTOR SHALL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE SUBTRACTED TO DETERMINE SUBGRADE ELEVATIONS.
3. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE RESIDENT ENGINEER. APPROVAL TO PROCEED MUST BE OBTAINED PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO PLACING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
4. EARTH EXCAVATION FOR ROADWAY AND SIDEWALK WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ADJACENT WORK ITEMS.
5. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ADJACENT REMOVAL WORK ITEMS.
6. PER PROJECT SPECIAL PROVISIONS, ALL EXCESS SOIL NOT USED AS FILL WILL BE GRADED INTO THE EXISTING INTERCHANGE INFIELD LOCATED IN THE SOUTHWEST CORNER OF DES PLAINES RIVER ROAD AND I-190 WB RAMP /CTA ENT. SEE THE SPECIAL PROVISION FOR "GRADING EXISTING INFIELD" FOR MORE INFORMATION.
7. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 3 BUSINESS DAYS IN ADVANCE OF BEGINNING WORK.
8. THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, THE ARTERIAL TRAFFIC FIELD ENGINEER, AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

**DISTRICT DETAILS**

DETAIL NO.	DESCRIPTION
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-12	MULTI-LANE FREEWAY PAVEMENT MARKING DETAIL
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	FREEWAY / EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAY/ EXPRESSWAY
TC-22	ARTERIAL ROAD INFORMATION SIGN

DATE	BY	DATE	BY
PROF. FILE	NO. _____	STRUCTURE	NOTATYNE CHK'D
NO. _____	NO. _____	NO. _____	NO. _____
NO. _____	NO. _____	NO. _____	NO. _____
NO. _____	NO. _____	NO. _____	NO. _____

**CHRISTOPHER B. BURKE**  
ENGINEERING LTD.  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	CONSTRUCTION TYPE CODE:		Des Plaines River Road at I-190 WB Ramp				Interconnect
		UNIT	TOTAL QUANTITY	0005	0021	0021	0042	0021
				CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	325	325				
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	18				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	18				
25100630	EROSION CONTROL BLANKET	SQ YD	265	265				
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	356	356				
* 35101598	AGGREGATE BASE COURSE, TYPE B 3"	SQ YD	266	266				
* 35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	143	143				
* 40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	759	759				
* 40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	80	80				
* 40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	524	524				
* 40603365	HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	159	159				
* 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2460	2460				
* 42400800	DETECTABLE WARNINGS	SQ FT	118	118				
* 44000100	PAVEMENT REMOVAL	SQ YD	287	287				
* 44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1175	1175				
* 44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	412	412				
* 44000600	SIDEWALK REMOVAL	SQ FT	2007	2007				
* 44003100	MEDIAN REMOVAL	SQ FT	675	675				
* 44004250	PAVED SHOULDER REMOVAL	SQ YD	100	100				
* 48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	104	104				
* 60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2				
* 60255500	MANHOLES TO BE ADJUSTED	EACH	1	1				
* 60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	379	379				
* 60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	26.5	26.5				
67100100	MOBILIZATION	LSUM	1	1				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4553	4553				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2,450	2,450				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	483	483				
72000100	SIGN PANEL - TYPE 1	SQ FT	9	9				
72000200	SIGN PANEL - TYPE 2	SQ FT	94.8	27.3	67.5			

\* = SPECIALITY ITEM

PROFILE SURVEYED \_\_\_\_\_ DATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 NO. \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 GRADES CHECKED \_\_\_\_\_  
 B.M. NOTED \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED \_\_\_\_\_  
 PLAN SURVEYED \_\_\_\_\_ DATE \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 NO. \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 ALIGNMENT CHECKED \_\_\_\_\_  
 RT. OF WAY CHECKED \_\_\_\_\_  
 CADD FILE NAME \_\_\_\_\_

**CHRISTOPHER B. BURKE**  
 ENGINEERING LTD.  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (647) 823-6500

FILE NAME = N:\ROSEMONT\12012\Traffic\IS-003.00A-R\er_01.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 1"		DRAWN - FPB	REVISED -
PLOT DATE = 11/4/2016		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
(SHEET 1 OF 4)**

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

F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)			CONTRACT NO. 61D25	



**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	CONSTRUCTION TYPE CODE:		Des Plaines River Road at I-190 WB Ramp				Interconnect
		UNIT	TOTAL QUANTITY	0005	0021	0021	0042	0021
				CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2		2			
87704315	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 60 FT.	EACH	1		1			
87704344	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 60 FT.	EACH	1		1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12			
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30		30			
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	44		44			
87900200	DRILL EXISTING HANDHOLE	EACH	4		4			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16		16			
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4			
88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	6		6			
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20		20			
88500100	INDUCTIVE LOOP DETECTOR	EACH	12		12			
88600100	DETECTOR LOOP, TYPE I	FOOT	1180		1180			
88700200	LIGHT DETECTOR	EACH	4			4		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	6		6			
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3670		3112			558
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
89502376	REBUILD EXISTING HANDHOLE	EACH	2		2			
89502380	REMOVE EXISTING HANDHOLE	EACH	16		16			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	13	1	12			
X0320024	ETHERNET MANAGE SWITCH	EACH	1		1			
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1008			1008		
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	558					558
* X0326169	GRADING EXISTING INFIELD	SQ YD	1000	1000				
X0326657	RELOCATE SIGN, SPECIAL	EACH	1	1				
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	692	692				
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1			
X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	200		200			

\* = SPECIALITY ITEM

PROFILE  
 CHECKED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_  
 STRUCTURE NOTATIONS CHKD: \_\_\_\_\_  
 NO. \_\_\_\_\_

PLAN  
 CHECKED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 ALIGNMENT CHECKED: \_\_\_\_\_  
 CADD FILE NAME: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

ENGINEERING LTD.  
**BURKE**  
 8775 West Higgins Road, Suite 600  
 Chicago, Illinois 60616  
 (847) 823-0500

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	CONSTRUCTION TYPE CODE:		Des Plaines River Road at I-190 WB Ramp				Interconnect
		UNIT	TOTAL QUANTITY	0005	0021	0021	0042	0021
				CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL	CMAQ FUNDS 80% FED 20% LOCAL
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1			
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1				
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	1				
X8100105	CONDUIT SPLICE	EACH	1		1			
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1		1			
X8410102	TEMPORARY LIGHTING SYSTEM	LSUM	1		1			
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1			
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2369					2369
X8780107	CONCRETE FOUNDATION (SPECIAL)	FOOT	10	10				
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	77.1	77.1				
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4		4			
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6		6			
* Z0038122	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 2 1/4"	SQ YD	302	302				
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1			
Z0076600	TRAINEES	HOUR	500				500	
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500				500	
XX005206	EXPLORATORY EXCAVATION	FOOT	35	35				
XX005940	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1		1			
87704335	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 55 FT.	EACH	1		1			
87704328	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 38 FT.	EACH	1		1			
87301880	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 4 1C	FOOT	480		480			

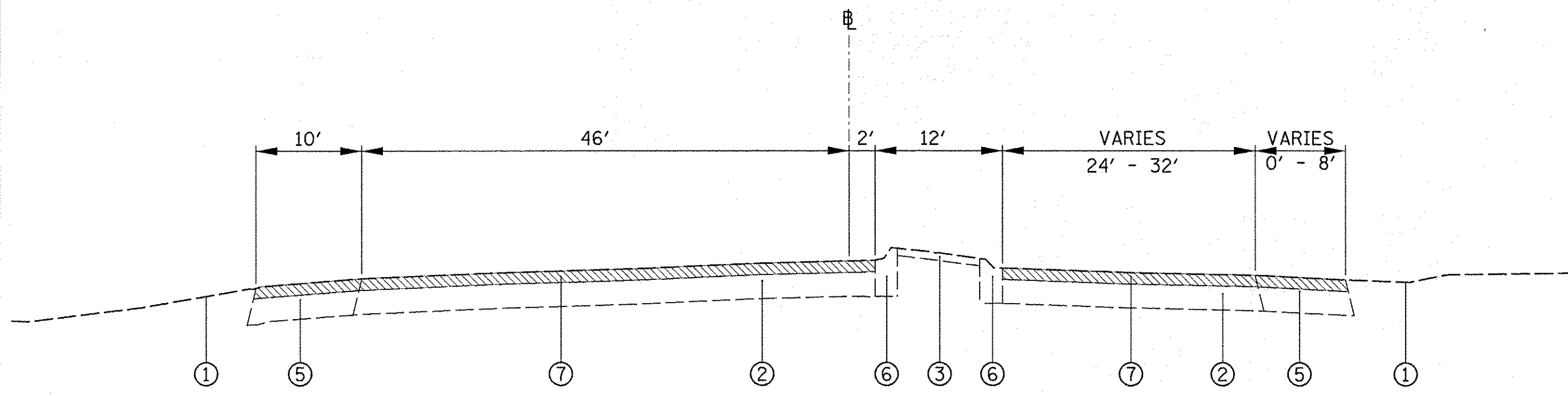
\* = SPECIALITY ITEM

PROFILE	SURVEYED	DATE
GRADES CHECKED	PLOTTED	
NOTE BOOK NO.	STRUCTURE	NOTATION CHKD
PLAN	ENGINEERING LTD.	
NOTE BOOK NO.	ENGINEERING LTD.	
BY	DATE	

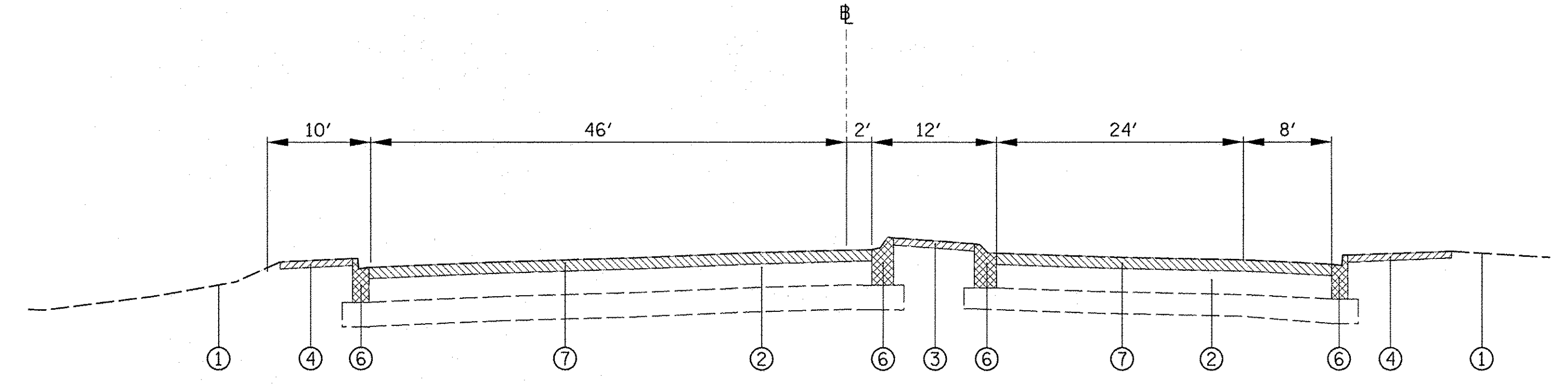
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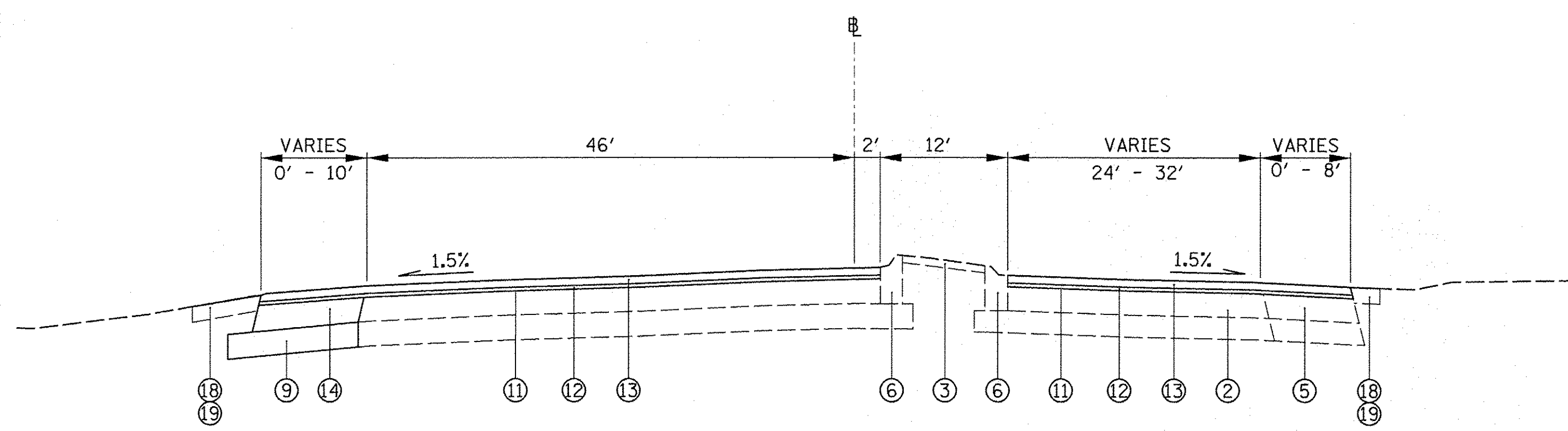
DATE \_\_\_\_\_ BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_ PLOTTED \_\_\_\_\_ CHECKED \_\_\_\_\_  
 PLAN NOTE BOOK NO. \_\_\_\_\_  
 CHRISTOPHER B. BURKE ENGINEERING LTD.  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0800  
 DATE \_\_\_\_\_ BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_ PLOTTED \_\_\_\_\_ CHECKED \_\_\_\_\_  
 PROFILE NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATIONS OK/KO



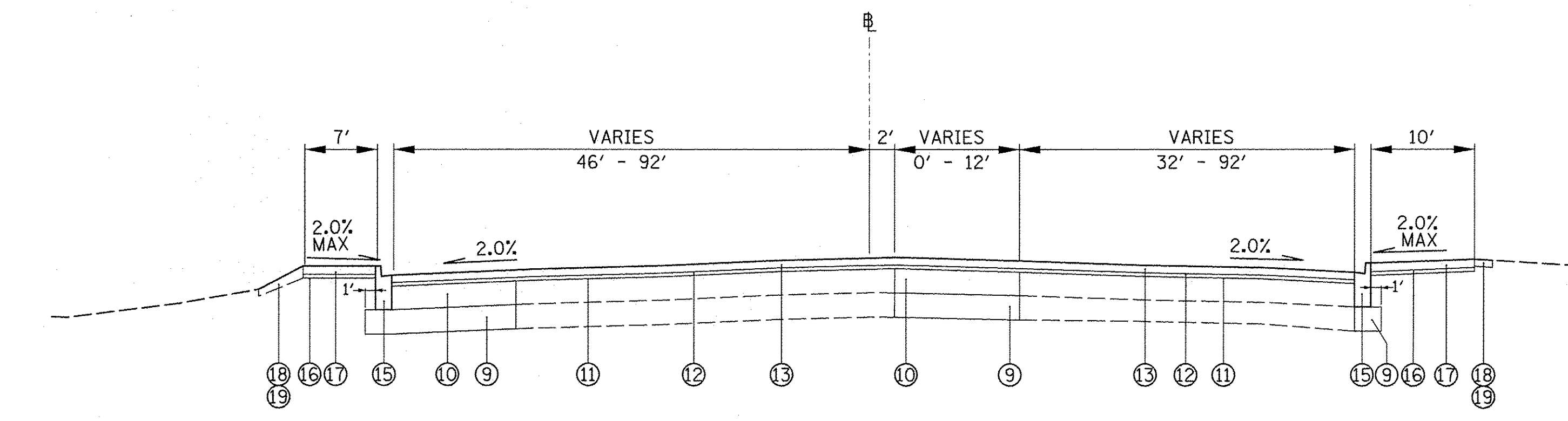
**EXISTING TYPICAL SECTION**  
**1190 WEST BOUND RAMP**  
**STA 203+52 - STA 204+57 LT**  
**STA 203+39 - STA 204+57 RT**



**EXISTING TYPICAL SECTION**  
**1190 WEST BOUND RAMP**  
**STA 203+07 - STA 203+52 LT**  
**STA 203+07 - STA 203+39 RT**



**PROPOSED TYPICAL SECTION**  
**1190 WEST BOUND RAMP**  
**STA 203+52 - STA 204+57 LT**  
**STA 203+39 - STA 204+57 RT**



**PROPOSED TYPICAL SECTION**  
**1190 WEST BOUND RAMP**  
**STA 203+07 - STA 203+52 LT**  
**STA 203+07 - STA 203+39 RT**

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

PAVEMENT	PERCENT AIR VOIDS @ NDES
POLYMERIZED HMA SURFACE COURSE, MIX "E", N70	4% @ 70 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR
HMA SHOULDER (HMA BINDER IL-19mm)	4% @ 70 GYR

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

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

**LEGEND**

- ① EXISTING GROUND
- ② EXISTING PAVEMENT
- ③ EXISTING MEDIAN SURFACE
- ④ EXISTING SIDEWALK
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING CONC. CURB AND GUTTER
- ⑦ HMA SURFACE REMOVAL, 2 1/4"
- ⑧ CONC. SURFACE REMOVAL, 2 1/4"
- ⑨ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑩ PCC BASE COURSE, 8"
- ⑪ BITUMINOUS MATERIALS TACK COAT
- ⑫ POLYMERIZED LEVELING BINDER (MACHINE METHOD), 3/4"
- ⑬ HMA SURFACE COURSE, MIX E, N70, 1 1/2"
- ⑭ HMA SHOULDER, 6"
- ⑮ COMB. CONC. CURB AND GUTTER, TY B-6.12
- ⑯ AGGREGATE BASE COURSE, 3"
- ⑰ PCC SIDEWALK, 5"
- ⑱ TOPSOIL FURNISH AND PLACE, 6"
- ⑲ SEEDING, CLASS 2A

FILE NAME = N:\ROSEMONT\12012\Traffic\15-005_TYP-Ramp_01.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
PLOT SCALE = 1/8"		DRAWN - FPB	REVISED -
PLOT DATE = 10/17/2016		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**  
**(SHEET 1 OF 2)**

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

F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 7
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)			CONTRACT NO. 61D25	

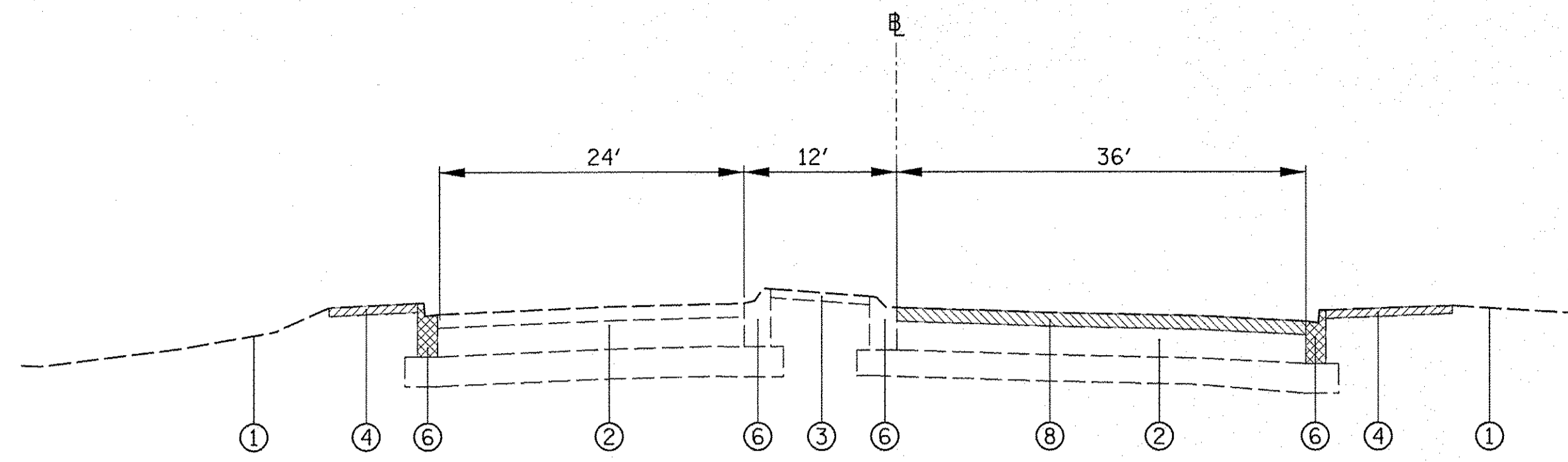
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 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_  
 STRUCTURE NOTATION: CHK'D

PLAN: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_

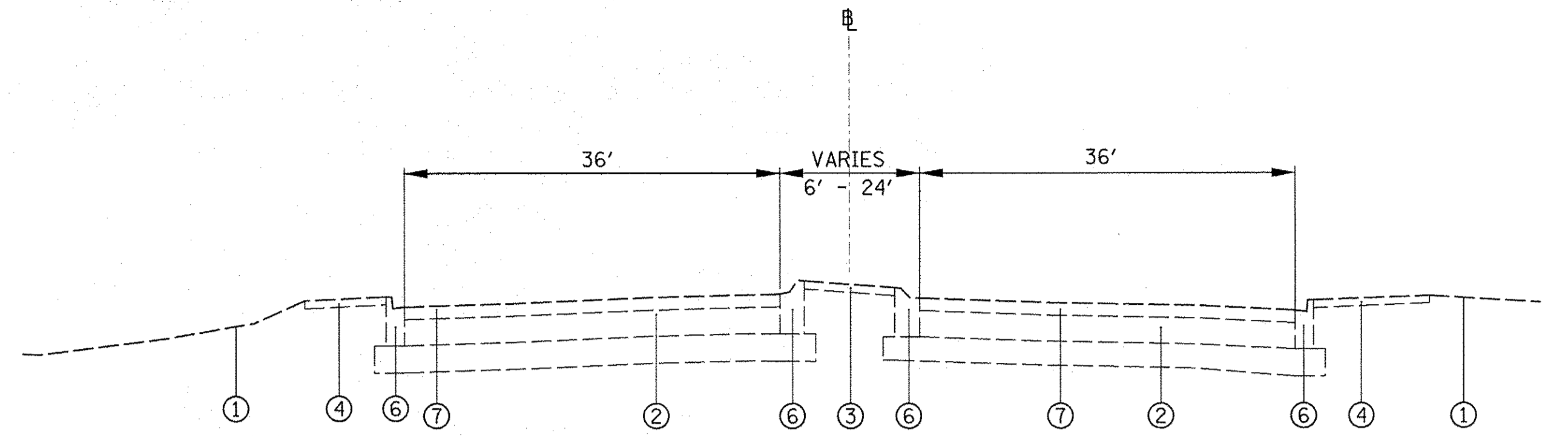
ENGINEERING LTD.  
**CHRISTOPHER B. BURKE**  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_  
 STRUCTURE NOTATION: CHK'D

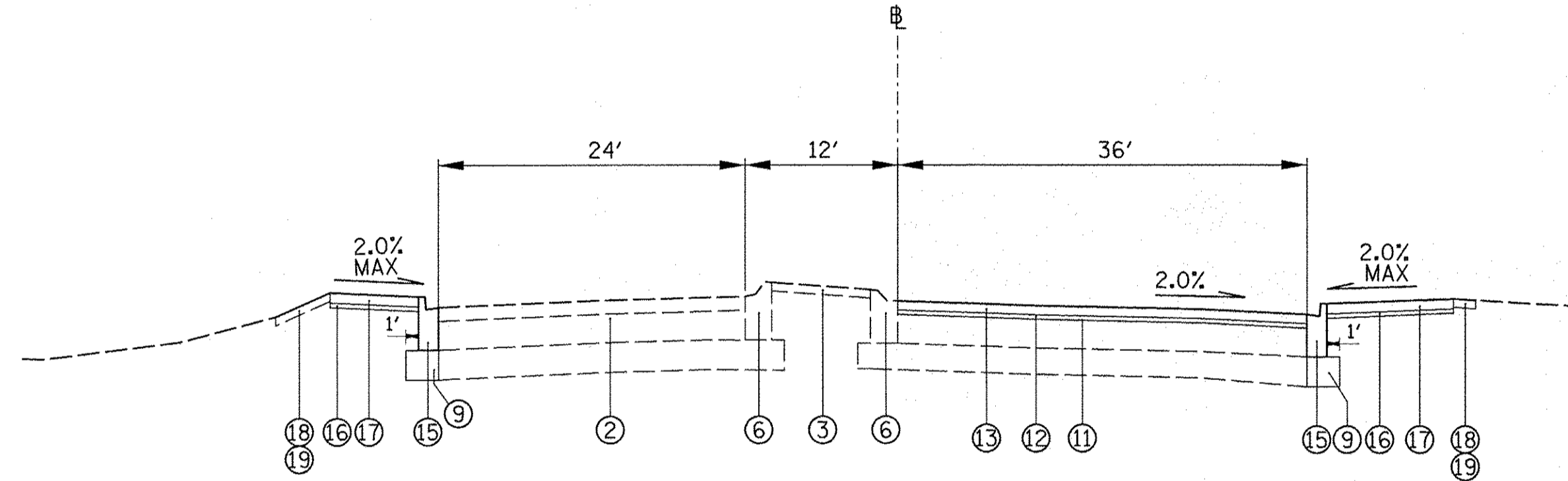
PROFILE: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_



**EXISTING TYPICAL SECTION  
 CTA STATION ENTRANCE  
 STA 201+39 - STA 201+91**



**EXISTING TYPICAL SECTION  
 DES PLAINES RIVER ROAD  
 STA 35+00 - STA 54+00**



**PROPOSED TYPICAL SECTION  
 CTA STATION ENTRANCE  
 STA 201+39 - STA 201+91**

**LEGEND**

- ① EXISTING GROUND
- ② EXISTING PAVEMENT
- ③ EXISTING MEDIAN SURFACE
- ④ EXISTING SIDEWALK
- ⑤ EXISTING HMA SHOULDER
- ⑥ EXISTING CONC. CURB AND GUTTER
- ⑦ HMA SURFACE REMOVAL, 2 1/4"
- ⑧ CONC. SURFACE REMOVAL, 2 1/4"
- ⑨ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑩ PCC BASE COURSE, 8"
- ⑪ BITUMINOUS MATERIALS TACK COAT
- ⑫ POLYMERIZED LEVELING BINDER (MACHINE METHOD), 3/4"
- ⑬ HMA SURFACE COURSE, MIX E, N70, 1 1/2"
- ⑭ HMA SHOULDER, 6"
- ⑮ COMB. CONC. CURB AND GUTTER, TY B-6.12
- ⑯ AGGREGATE BASE COURSE, 3"
- ⑰ PCC SIDEWALK, 5"
- ⑱ TOPSOIL FURNISH AND PLACE, 6"
- ⑲ SEEDING, CLASS 2A

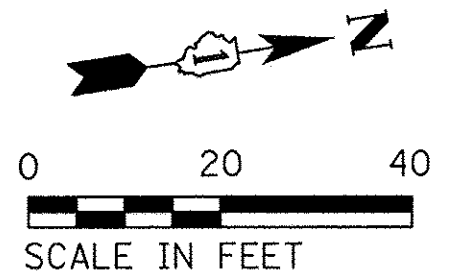
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PLOT SCALE = 10'		DRAWN - FPB	REVISED -		SCALE: 1" = 10'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 61D25		
PLOT DATE = 10/17/2016		CHECKED - GMZ	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)							
		DATE -	REVISED -									



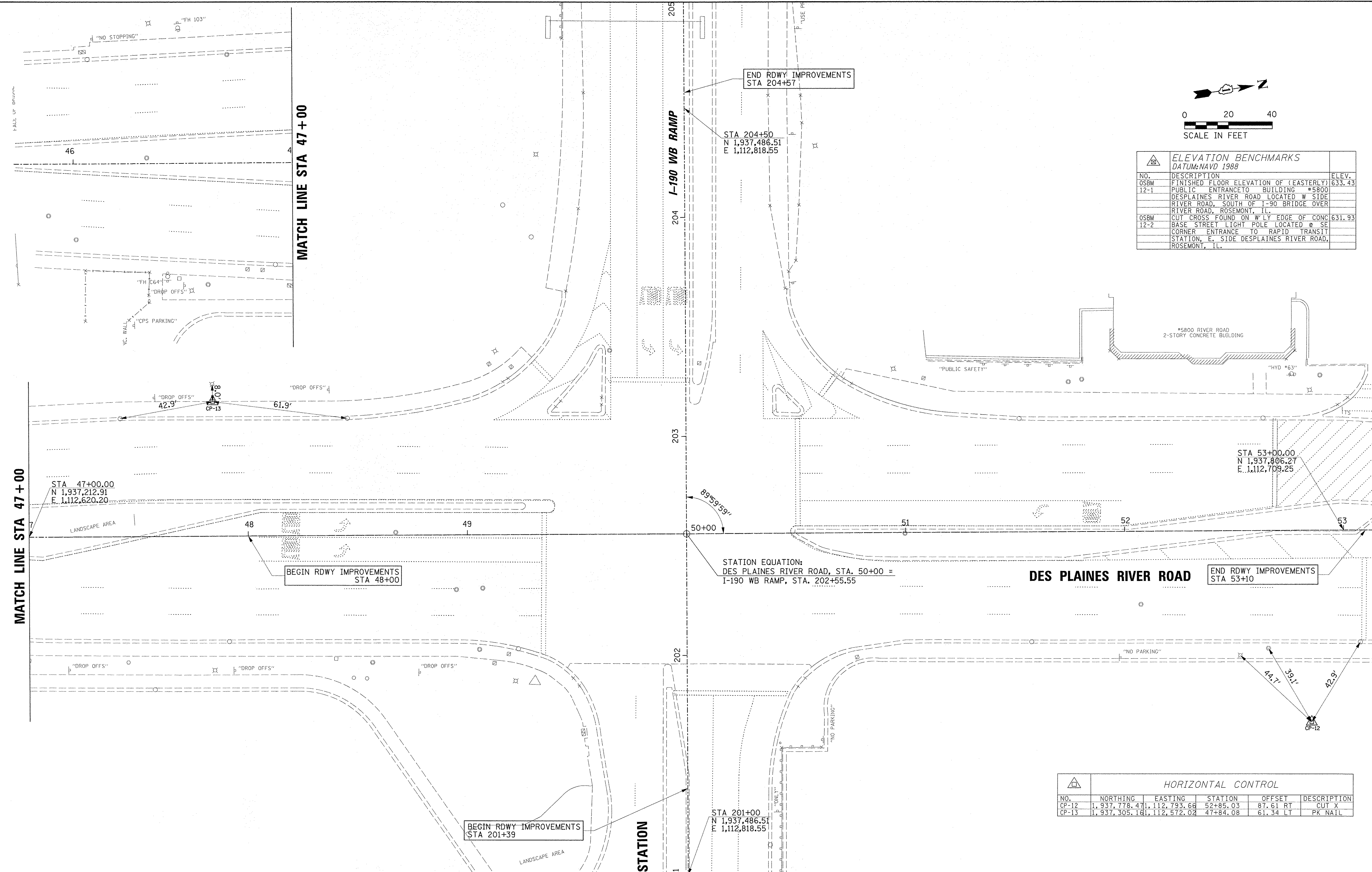
PROFILE	SURVEYED	DATE	BY	DATE
	NOTED			
PLAN	NOTED		BY	DATE
	NOTED			

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Rosemont, Illinois 60018  
(847) 823-0500

PROFILE	SURVEYED	DATE	BY	DATE
	NOTED			
PLAN	NOTED		BY	DATE
	NOTED			



ELEVATION BENCHMARKS DATUM: NAVD 1988		
NO.	DESCRIPTION	ELEV.
OSBM 12-1	FINISHED FLOOR ELEVATION OF (EASTERLY) PUBLIC ENTRANCE TO BUILDING #5800 DESPLAINES RIVER ROAD LOCATED W SIDE RIVER ROAD, SOUTH OF I-90 BRIDGE OVER RIVER ROAD, ROSEMONT, ILL.	633.43
OSBM 12-2	CUT CROSS FOUND ON W'LY EDGE OF CONC BASE STREET LIGHT POLE LOCATED @ SE CORNER ENTRANCE TO RAPID TRANSIT STATION, E. SIDE DESPLAINES RIVER ROAD, ROSEMONT, ILL.	631.93



END RDWY IMPROVEMENTS  
STA 204+57

STA 204+50  
N 1,937,486.51  
E 1,112,818.55

STA 53+00.00  
N 1,937,806.27  
E 1,112,709.25

STATION EQUATION:  
DES PLAINES RIVER ROAD, STA. 50+00 =  
I-190 WB RAMP, STA. 202+55.55

**DES PLAINES RIVER ROAD**

END RDWY IMPROVEMENTS  
STA 53+10

STA 201+00  
N 1,937,486.51  
E 1,112,818.55

BEGIN RDWY IMPROVEMENTS  
STA 201+39

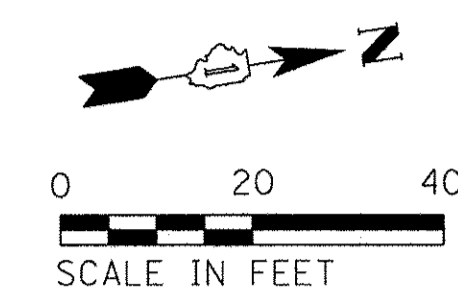
BEGIN RDWY IMPROVEMENTS  
STA 48+00

HORIZONTAL CONTROL					
NO.	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
CP-12	1,937,778.471	1,112,793.68	52+85.03	87.61 RT	CUT X
CP-13	1,937,305.181	1,112,572.02	47+84.08	61.34 LT	PK NAIL

FILE NAME = N:\ROSEMONT\12012\TranfLoc\TS-006.BHN.Ctp.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARK PLAN DES PLAINES RIVER ROAD AT CTA STATION /I-190 WB RAMP			F.A.U. RTE. = 8522	SECTION = 13-00032-00-TL	COUNTY = COOK	TOTAL SHEETS = 61	SHEET NO. = 9
PLOT SCALE = 20'	PLOT DATE = 12/17/2016	DRAWN - FPB	REVISED -		SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT : M-4003(677)			
		CHECKED - GMZ	REVISED -									
		DATE	REVISED -									

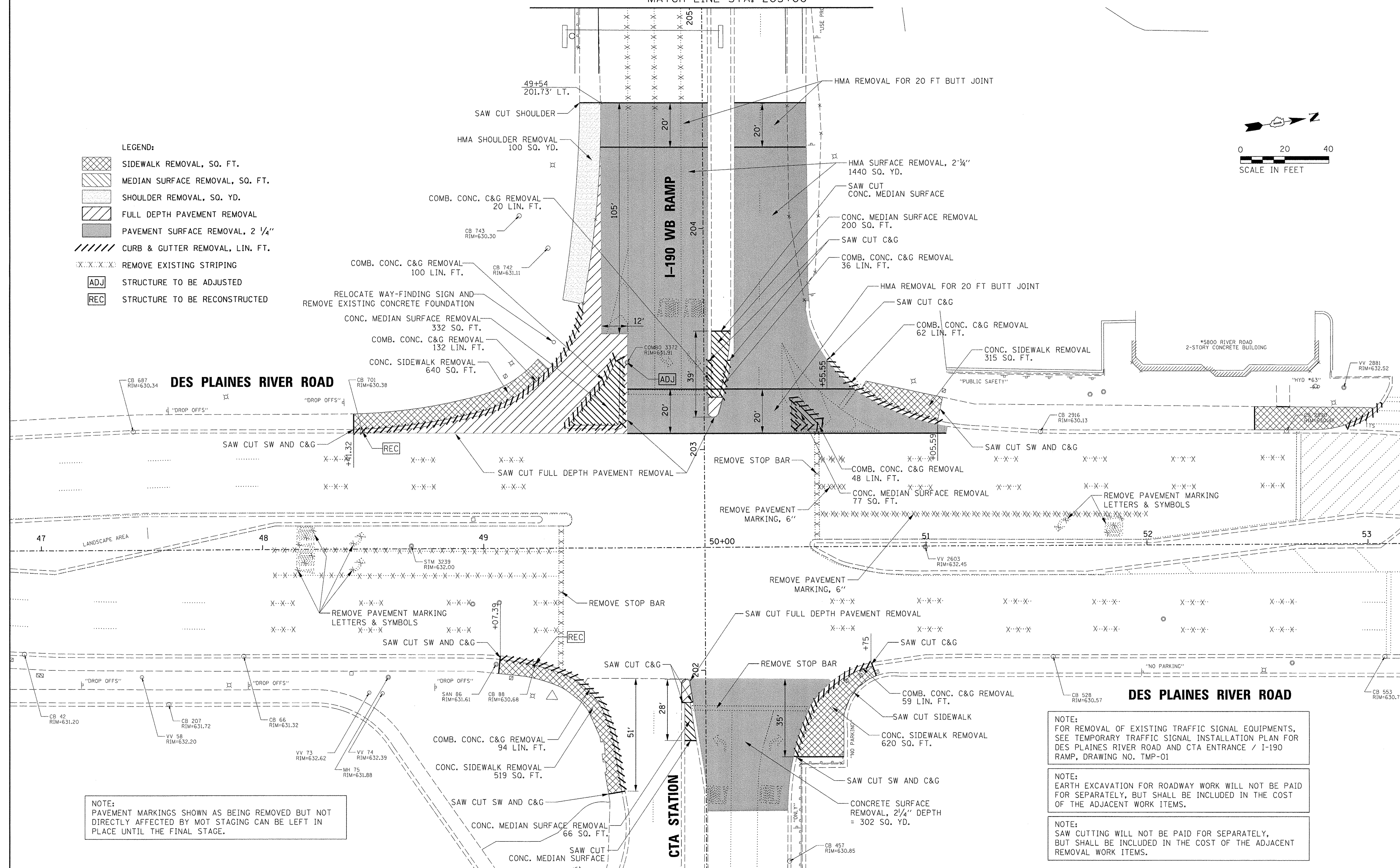
MATCH LINE STA. 205+00

- LEGEND:**
- SIDEWALK REMOVAL, SQ. FT.
  - MEDIAN SURFACE REMOVAL, SQ. FT.
  - SHOULDER REMOVAL, SQ. YD.
  - FULL DEPTH PAVEMENT REMOVAL
  - PAVEMENT SURFACE REMOVAL, 2 1/4"
  - CURB & GUTTER REMOVAL, LIN. FT.
  - REMOVE EXISTING STRIPING
  - STRUCTURE TO BE ADJUSTED
  - STRUCTURE TO BE RECONSTRUCTED



DATE	DESIGNED	BY
	PLANNED	BY
DATE	CHECKED	BY
	NOTED	BY
DATE	REVIEWED	BY
	APPROVED	BY

FILE NAME	USER NAME	DESIGNED	REVISED
DRAWN	CHECKED	DATE	REVISED
PLLOT SCALE	DATE	REVISED	



NOTE: PAVEMENT MARKINGS SHOWN AS BEING REMOVED BUT NOT DIRECTLY AFFECTED BY MOT STAGING CAN BE LEFT IN PLACE UNTIL THE FINAL STAGE.

NOTE: FOR REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENTS, SEE TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN FOR DES PLAINES RIVER ROAD AND CTA ENTRANCE / I-190 RAMP, DRAWING NO. TMP-01

NOTE: EARTH EXCAVATION FOR ROADWAY WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ADJACENT WORK ITEMS.

NOTE: SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ADJACENT REMOVAL WORK ITEMS.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

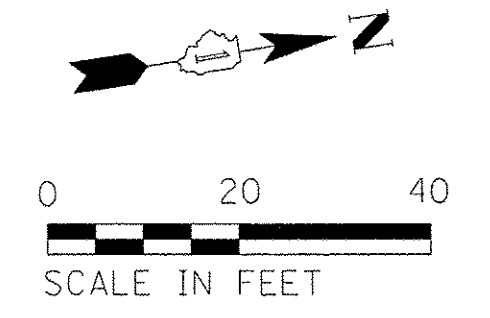
**REMOVAL PLAN (SHEET 1 OF 2)  
DES PLAINES RIVER ROAD AT  
CTA STATION / I-190 WB RAMP**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	10
CONTRACT NO. 61D25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)				

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

PROFILE	DESIGNED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	SIGNATURE	NOTATIONS CHKD
PLAN	REVISIONS	DATE
NOTE BOOK	ALIGNED	
NO.	BOOK	CAD FILE NAME

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 ENGINEERING LTD.  
 215 West Higginsville, Suite 600  
 Rock Island, Illinois 60718  
 (847) 823-0500



I-190 WB

I-190 OFF-RAMP  
 (DES PLAINES RIVER ROAD)

WRONG WAY ARROW  
 TO BE LEFT IN PLACE

REMOVE PAVEMENT MARKING  
 LETTERS & SYMBOLS

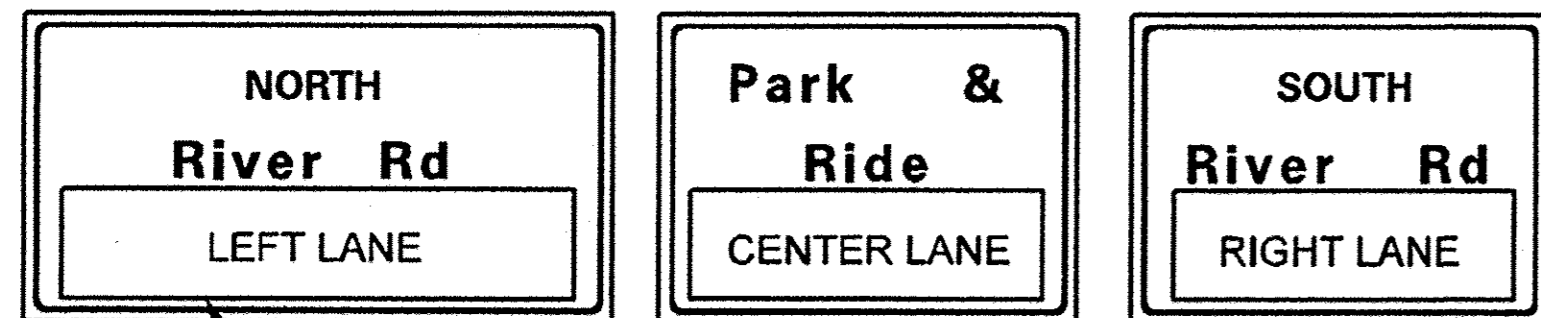
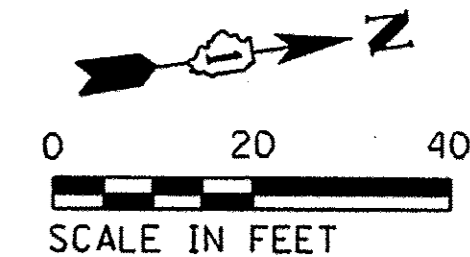
REMOVE PAVEMENT  
 MARKING, 4"

I-190 WB RAMP

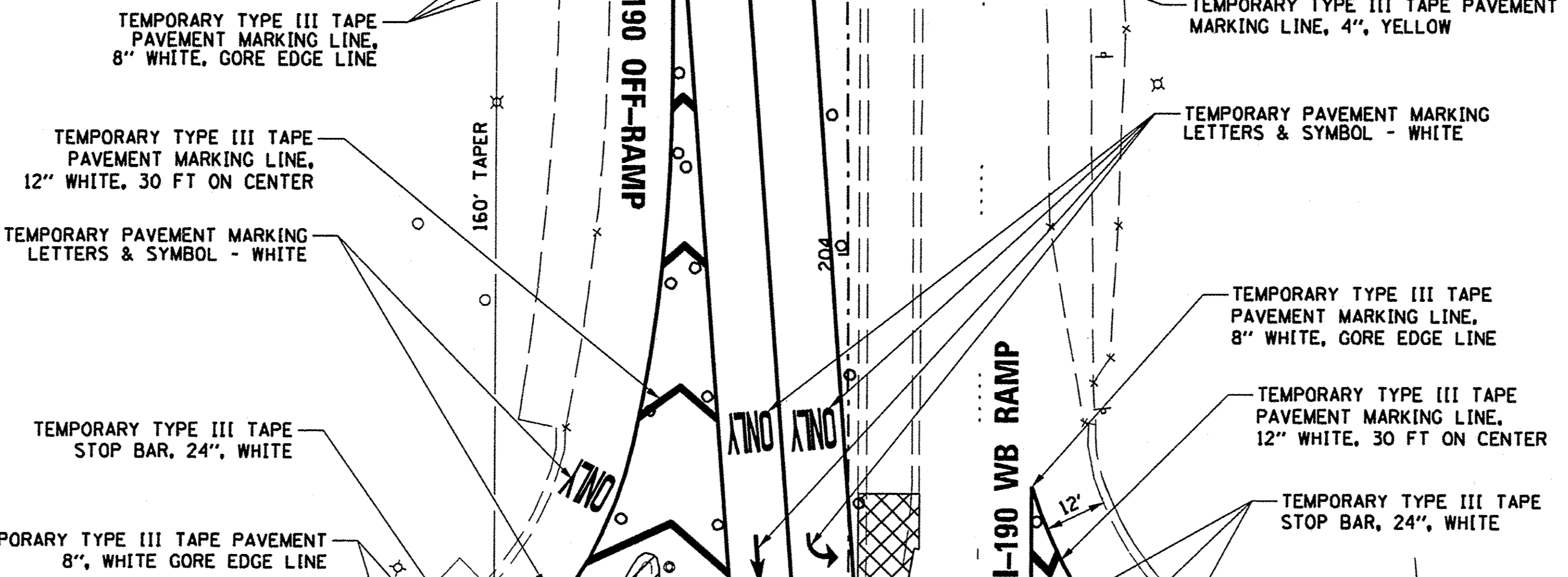
MATCH LINE STA. 205+00

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN (SHEET 2 OF 2)          DES PLAINES RIVER ROAD AT          CTA STATION /I-190 WB RAMP</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		PLLOT SCALE = 20'	CHECKED - GMZ		REVISED -			CONTRACT NO. 61D25			
		PLLOT DATE = 11/4/2016	DATE -		REVISED -	SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT : M-4003(677)	

**(A) OVERHEAD SIGN STRUCTURE:**



CONTRACTOR SHALL COVER THE ARROWS ON OVERHEAD SIGN (TYP)



**NOTES:**

STAGE I WORK SHALL BE REMOVED AND ALL DROP OFFS GREATER THAN 6" SHALL BE FILLED WITHIN THE SAME DAY.

THE CONTRACTOR SHALL MAINTAIN THE SAME AMOUNT OF R5-1 "DO NOT ENTER" SIGNS AND R5-1A "WRONG WAY" SIGNS DURING CONSTRUCTION. IF THE SIGNS NEED TO BE REMOVED FOR CONSTRUCTION ACTIVITIES THEN TEMPORARY SIGNS SHALL BE ERECTED. PERMANENT SIGNS SHALL BE REPLACED AS SOON AS POSSIBLE.

IF MOT STAGING WORK PROCEEDS PAST DECEMBER 1ST, THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE TEMPORARY TAPE PAVEMENT MARKINGS WITH TEMPORARY EPOXY PAVEMENT MARKINGS. ALL COSTS RELATED TO THE TEMPORARY EPOXY PAVEMENT MARKINGS WILL BE INCLUDED IN THE PAY ITEM: TRAFFIC CONTROL AND PROTECTION, SPECIAL. NO ADDITIONAL COMPENSATION WILL BE GIVEN.

TEMPORARY PAVEMENT MARKINGS WILL BE PAID FOR WITH THE PAY ITEM: SHORT TERM PAVEMENT MARKING FOR THE SIZE AND TYPE SPECIFIED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.

TEMPORARY TYPE III TAPE PAVEMENT MARKING LINE, 4", WHITE

TEMPORARY TYPE III TAPE PAVEMENT 8", WHITE GORE EDGE LINE

**DES PLAINES RIVER ROAD**

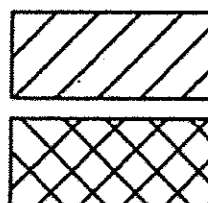
DRUM, OR BARRICADE W/ STEADY BURNING LIGHT 25' ON CENTERS

TEMPORARY PAVEMENT MARKING, 2' DASH, 6' SPACE, 6", WHITE

TEMPORARY TYPE III TAPE PAVEMENT MARKING LINE, 4", WHITE

**LEGEND:**

○ DRUM, OR BARRICADE W/ STEADY BURNING LIGHT 25' ON CENTERS



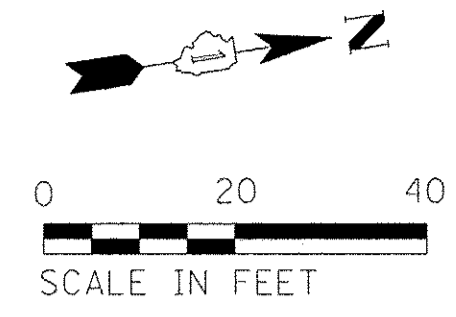
STAGE 1 WORK ZONE  
STAGE 1B WORK ZONE

CENTER MEDIAN TRAFFIC CONTROL SHOULD BE SHOWN IN ACCORDANCE WITH HIGHWAY STD. 701701-10

PROFILE	DATE	
	BY	
	DESIGNED	
	CHECKED	
PLAN	DATE	
	BY	
	DESIGNED	
	CHECKED	
SURVEYED		
ALIGNED		
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BY		
DATE		

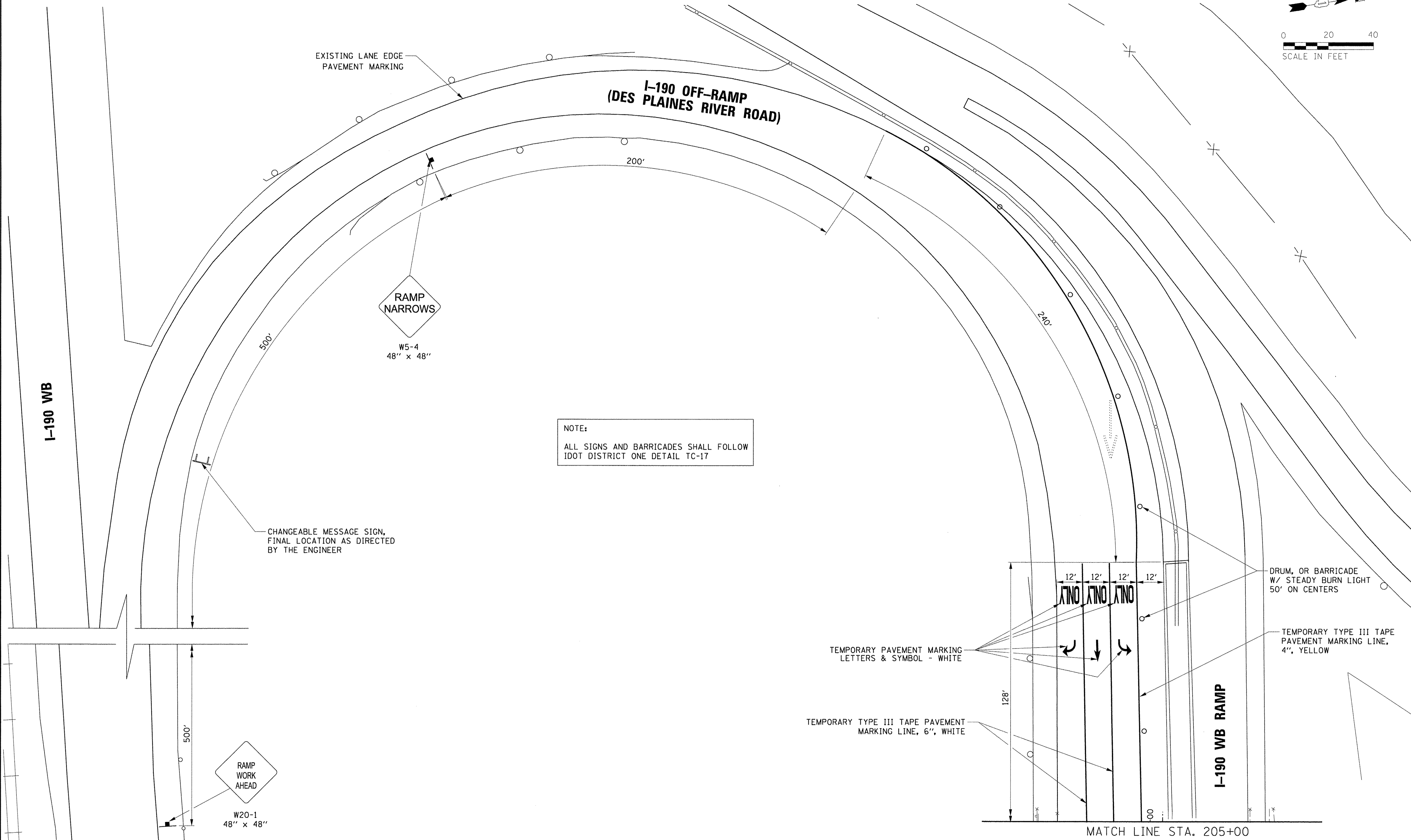
**CHRISTOPHER D. BURKE** ENGINEERING LTD.  
3075 West Higgins Road, Suite 600  
Bloomington, IL 61709  
(815) 824-9500

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC - STAGE 1 AND 1B (SHEET 1 OF 2) DES PLAINES RIVER ROAD AT CTA STATION / I-190 WB RAMP	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\ROSEMONT\12012\T-rd\off\c\TS-02B_MOT1.S	1&1B.dgn	DRAWN - FPB	REVISED -			8522	13-00032-00-TL	COOK	61	12
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -			CONTRACT NO. 61D25				
	PLOT DATE = 12/7/2016	DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)				
						SCALE: 1" = 40'	SHEET NO. OF SHEETS	STA.	TO STA.	



PROFILE	REVIEWED	DATE
	GRADES CHECKED	
PLAN	NOTED	DATE
	STRUCTURE NOTATIONS OK'D	
SUBMITTED	BY	DATE
	NOTES	
SUBMITTED	BY	DATE
	NOTES	
SUBMITTED	BY	DATE
	NOTES	

**CHRISTOPHER B. BURKE**  
ENGINEERING LTD.  
8575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0900



**NOTE:**  
ALL SIGNS AND BARRICADES SHALL FOLLOW  
IDOT DISTRICT ONE DETAIL TC-17

CHANGEABLE MESSAGE SIGN,  
FINAL LOCATION AS DIRECTED  
BY THE ENGINEER

DRUM, OR BARRICADE  
W/ STEADY BURN LIGHT  
50' ON CENTERS

TEMPORARY TYPE III TAPE  
PAVEMENT MARKING LINE,  
4", YELLOW

TEMPORARY PAVEMENT MARKING  
LETTERS & SYMBOL - WHITE

TEMPORARY TYPE III TAPE PAVEMENT  
MARKING LINE, 6", WHITE

**I-190 WB RAMP**

MATCH LINE STA. 205+00

FILE NAME =	USER NAME = e_jensen	DESIGNED - EAJ	REVISED -
Ne:\ROSEMONT\12012\Traffic\15-008_MOT2.Sig 181B.dgn		DRAWN - FPB	REVISED -
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	PLOT DATE = 11/4/2016	DATE -	REVISED -

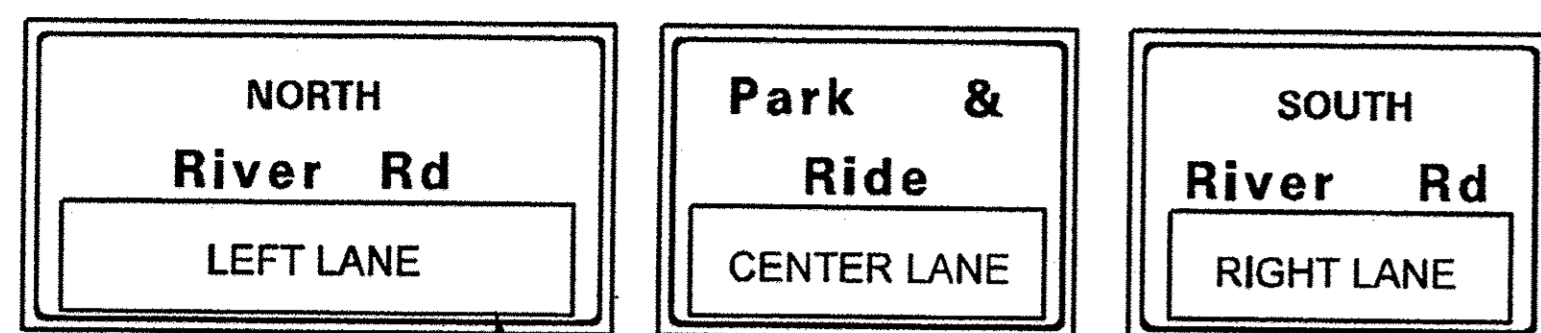
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 1 AND 1B (SHEET 2 OF 2)**  
**DES PLAINES RIVER ROAD AT**  
**CTA STATION /I-190 WB RAMP**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	13
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)			CONTRACT NO. 61D25	

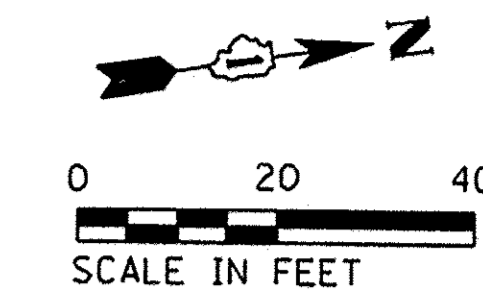
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

# A OVERHEAD SIGN STRUCTURE:



CONTRACTOR SHALL COVER THE ARROWS ON THE OVERHEAD SIGN (TYP)

MATCH LINE STA. 205+00



**NOTES:**

STAGE 2 EXCAVATIONS SHALL BE BACK FILLED SUCH THAT NO DROP OFFS GREATER THAN 12" ARE PRESENT AT THE CLOSE OF EACH WORK DAY.

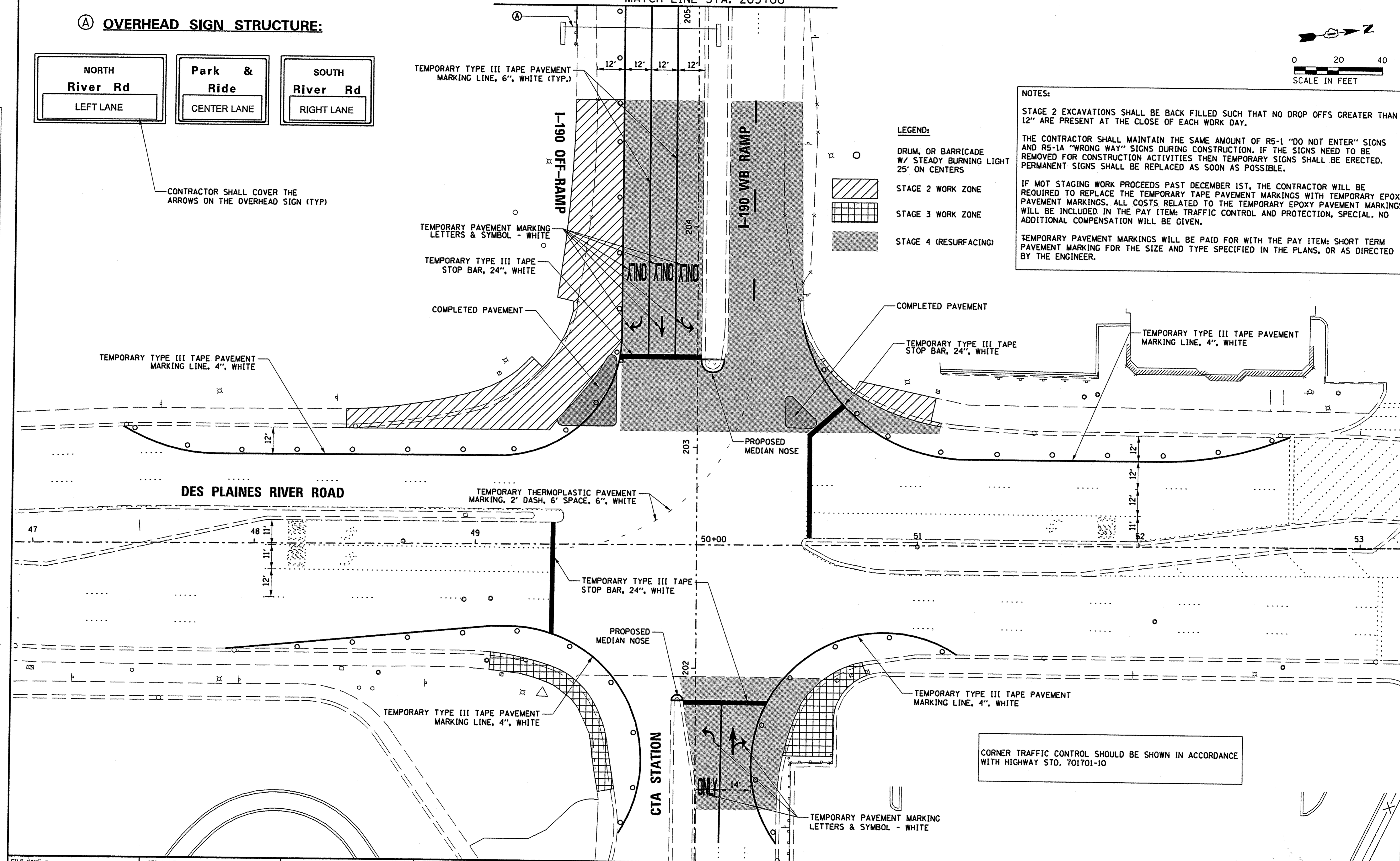
THE CONTRACTOR SHALL MAINTAIN THE SAME AMOUNT OF R5-1 "DO NOT ENTER" SIGNS AND R5-1A "WRONG WAY" SIGNS DURING CONSTRUCTION. IF THE SIGNS NEED TO BE REMOVED FOR CONSTRUCTION ACTIVITIES THEN TEMPORARY SIGNS SHALL BE ERECTED. PERMANENT SIGNS SHALL BE REPLACED AS SOON AS POSSIBLE.

IF MOT STAGING WORK PROCEEDS PAST DECEMBER 1ST, THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE TEMPORARY TAPE PAVEMENT MARKINGS WITH TEMPORARY EPOXY PAVEMENT MARKINGS. ALL COSTS RELATED TO THE TEMPORARY EPOXY PAVEMENT MARKINGS WILL BE INCLUDED IN THE PAY ITEM: TRAFFIC CONTROL AND PROTECTION, SPECIAL. NO ADDITIONAL COMPENSATION WILL BE GIVEN.

TEMPORARY PAVEMENT MARKINGS WILL BE PAID FOR WITH THE PAY ITEM: SHORT TERM PAVEMENT MARKING FOR THE SIZE AND TYPE SPECIFIED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.

### LEGEND:

- DRUM, OR BARRICADE W/ STEADY BURNING LIGHT 25' ON CENTERS
- STAGE 2 WORK ZONE
- STAGE 3 WORK ZONE
- STAGE 4 (RESURFACING)

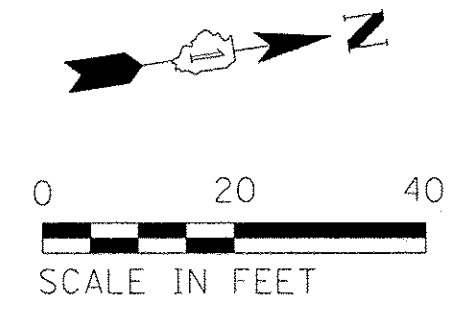


CORNER TRAFFIC CONTROL SHOULD BE SHOWN IN ACCORDANCE WITH HIGHWAY STD. 701701-10

DATE	BY
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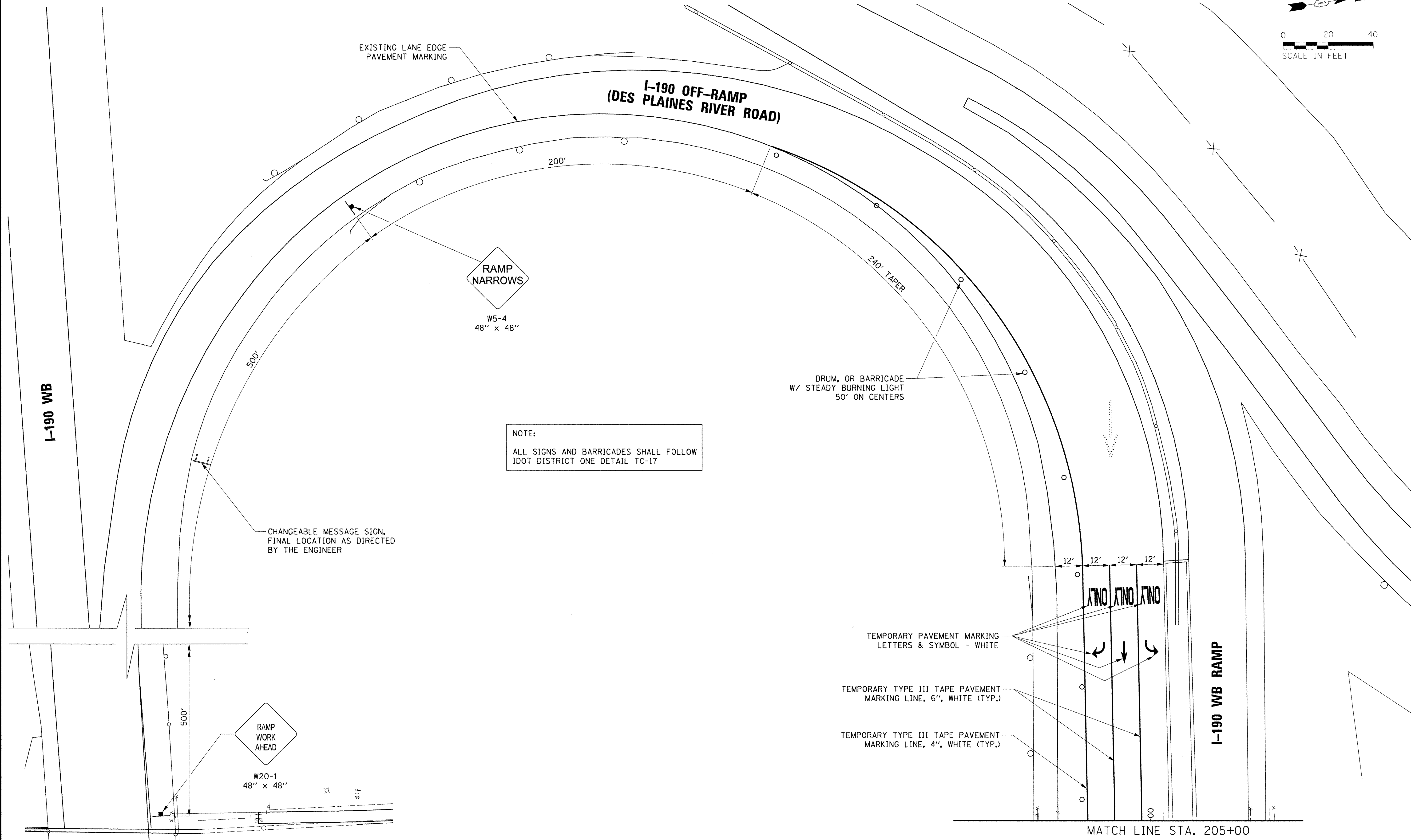
**CHRISTOPHER B. BURKE** ENGINEERING LTD.  
3575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(817) 923-0500

FILE NAME = N:\ROSEMONT\12012\Traffic\TS-008_MOT3.Stg 2 3 4.dgn	USER NAME = ejenson	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	MAINTENANCE OF TRAFFIC - STAGE 2, 3 AND 4 (SHEET 1 OF 2) DES PLAINES RIVER ROAD AT CTA STATION /I-190 WB RAMP	F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 14	
PLOT SCALE = 48'	PLOT DATE = 12/7/2016	DRAWN - FPB	REVISED -			SCALE: 1" = 40'	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 61D25			
CHECKED - GMZ	DATE -	REVISOR -	REVISIONS -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT: M-400316T7)					
DATE -	DATE -	DATE -	DATE -			ILLINOIS					



PROFILE	DATE	BY
GRADES CHECKED		
STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.		
PLAN	DATE	BY
NOTE BOOK NO.		
NO.		

**CHRISTOPHER B. BURKE**  
ENGINEERING LTD.  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500



**RAMP NARROWS**  
W5-4  
48" x 48"

**NOTE:**  
ALL SIGNS AND BARRICADES SHALL FOLLOW  
IDOT DISTRICT ONE DETAIL TC-17

**RAMP WORK AHEAD**  
W20-1  
48" x 48"

**NO TRAFFIC**

MATCH LINE STA. 205+00

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
N:\ROSEMONT\12012\1-Of file\NTS-008_MOT4_Seg 2 3 4.dgn		DRAWN - FPB	REVISED -
	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -
	PLOT DATE = 11/4/2016	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 2, 3 AND 4 (SHEET 2 OF 2)**  
**DES PLAINES RIVER ROAD AT**  
**CTA STATION /I-190 WB RAMP**

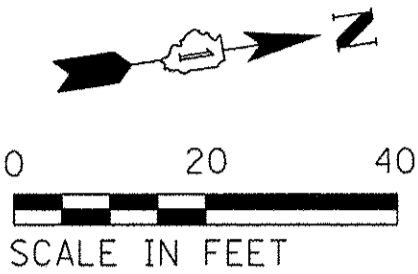
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	15
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)			CONTRACT NO. 61D25	

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

MATCH LINE STA. 205+00

LEGEND:

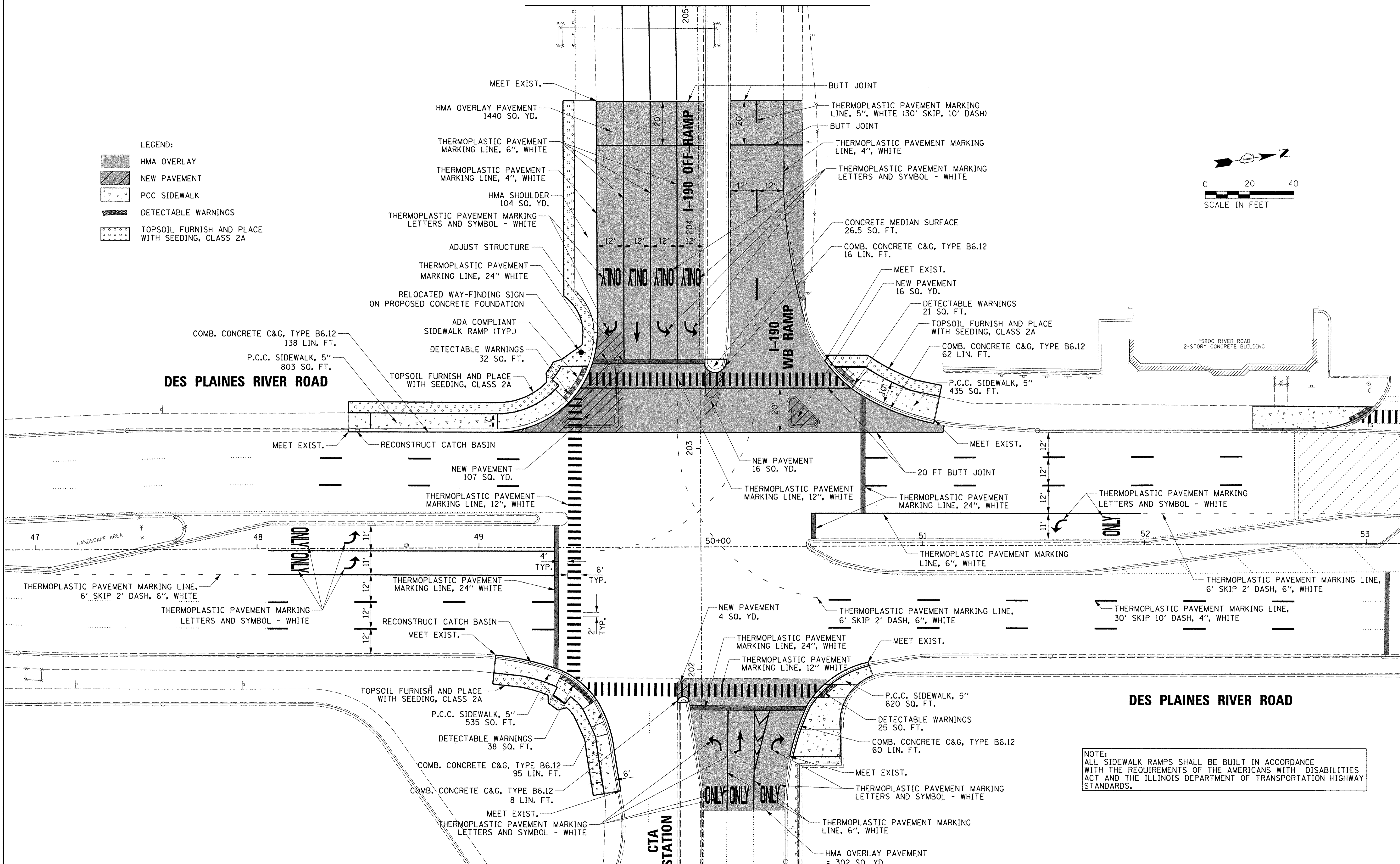
[Pattern]	HMA OVERLAY
[Pattern]	NEW PAVEMENT
[Pattern]	PCC SIDEWALK
[Pattern]	DETECTABLE WARNINGS
[Pattern]	TOPSOIL FURNISH AND PLACE WITH SEEDING, CLASS 2A



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN: \_\_\_\_\_ ENGINEERING LTD.  
 CHECKED: \_\_\_\_\_  
 CADD FILE NAME: \_\_\_\_\_  
**CHRISTOPHER B. BURKE**  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500  
 PROFILE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 STRUCTURE NOTATIONS OFF/D

DES PLAINES RIVER ROAD

DES PLAINES RIVER ROAD



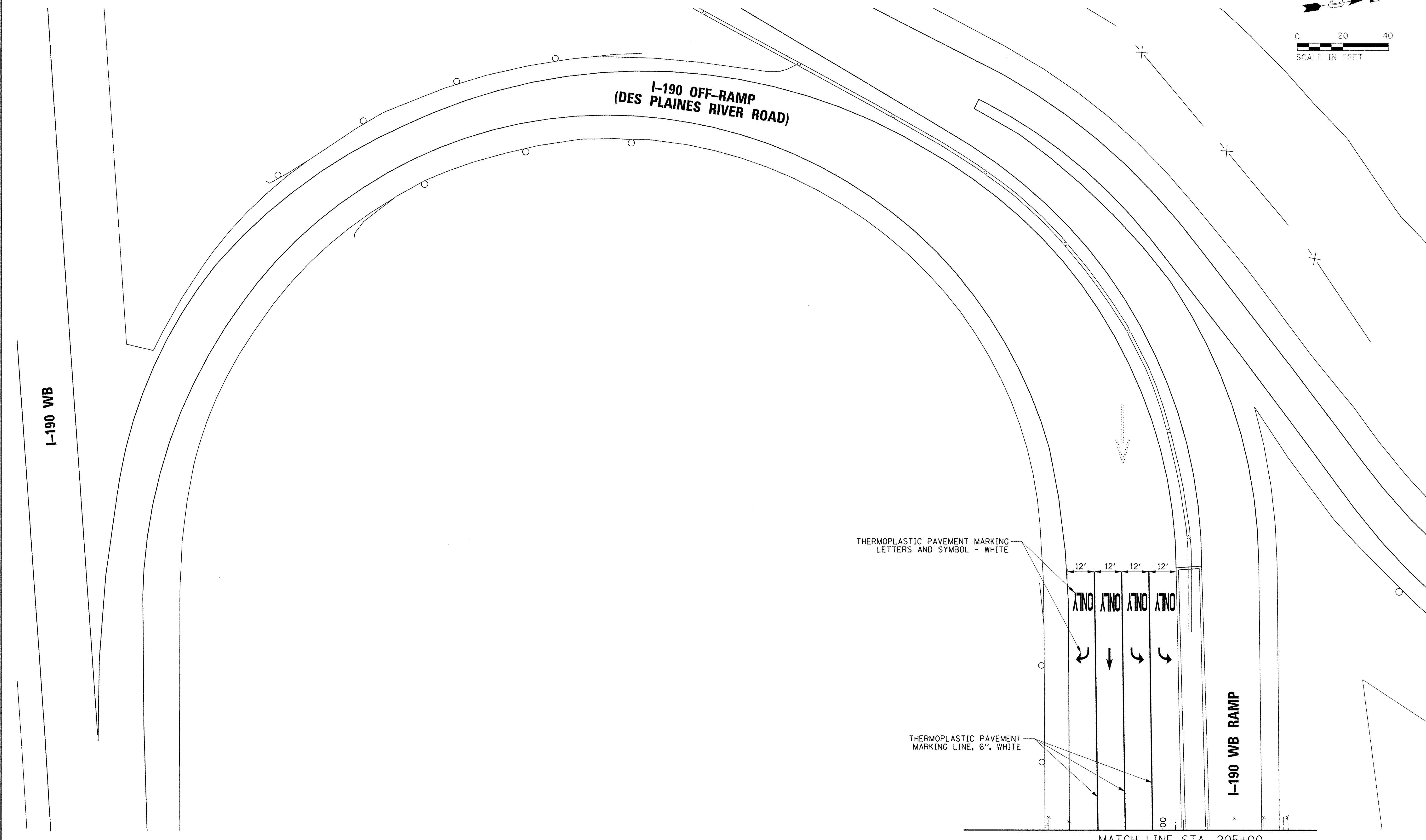
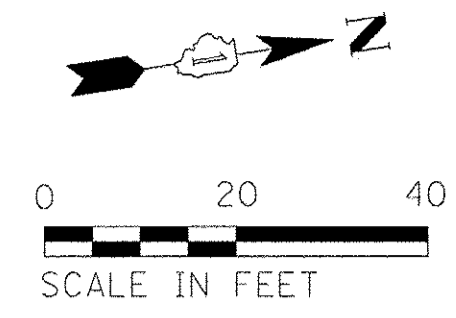
NOTE:  
 ALL SIDEWALK RAMPS SHALL BE BUILT IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION HIGHWAY STANDARDS.

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN (SHEET 1 OF 2) DES PLAINES RIVER ROAD AT CTA STATION /I-190 WB RAMP	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Ne\ROSEMONT\12012\Tr-a\file\TS-088_RDP_C.dwg		DRAWN - FPB	REVISED -			8522	13-00032-00-TL	COOK	61	16
PLOT SCALE = 20'		CHECKED - GMZ	REVISED -							CONTRACT NO. 61D25
PLOT DATE = 11/4/2016		DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)



PROFILE	DESIGNED	DATE
GRADES CHECKED	PLOTTED	
STRUCTURE NOTATIONS CHECKED		
NOTE BOOK NO.		
BY		
DATE		
PLAN	SUBMITTED	DATE
NOTE BOOK NO.	ALIGNMENT CHECKED	
	PLOTTED	
	CADD FILE NAME	

**CHRISTOPHER B. BURKE** ENGINEERING LTD.  
 2555 W. Lake Street, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0900



MATCH LINE STA. 205+00

FILE NAME = N:\ROSEMONT\12012\Traffic\TS-008_RDP_Ct...	USER NAME = e.jensen	DESIGNED - EAJ	REVISED -
		DRAWN - FPB	REVISED -
	PLOT SCALE = 20'	CHECKED - GMZ	REVISED -
	PLOT DATE = 11/4/2016	DATE -	REVISED -

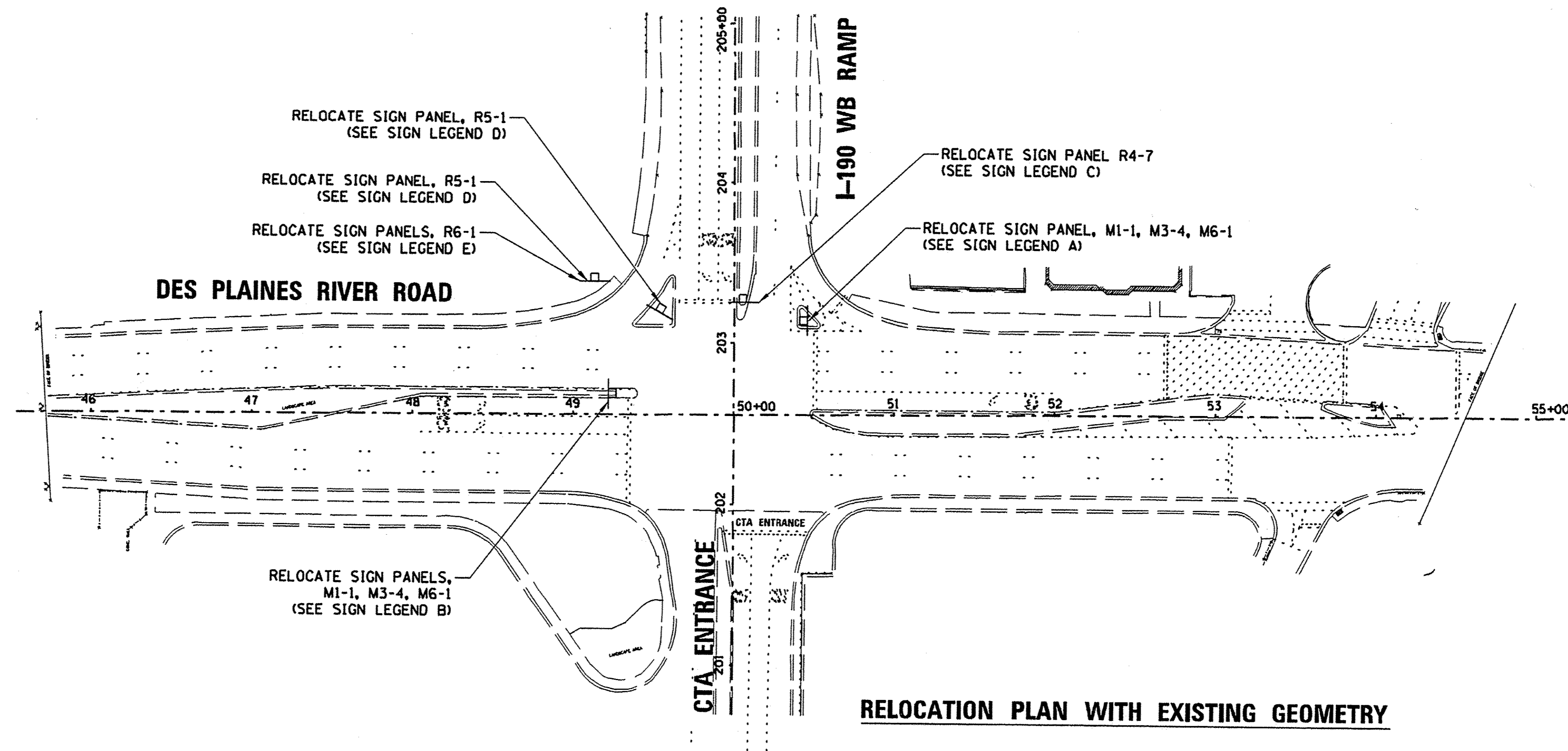
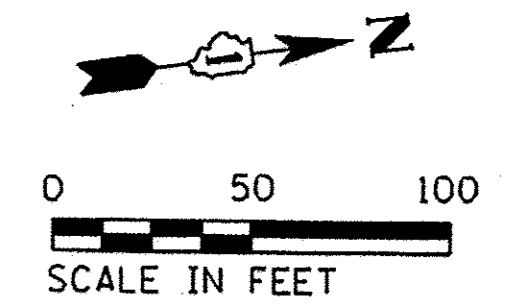
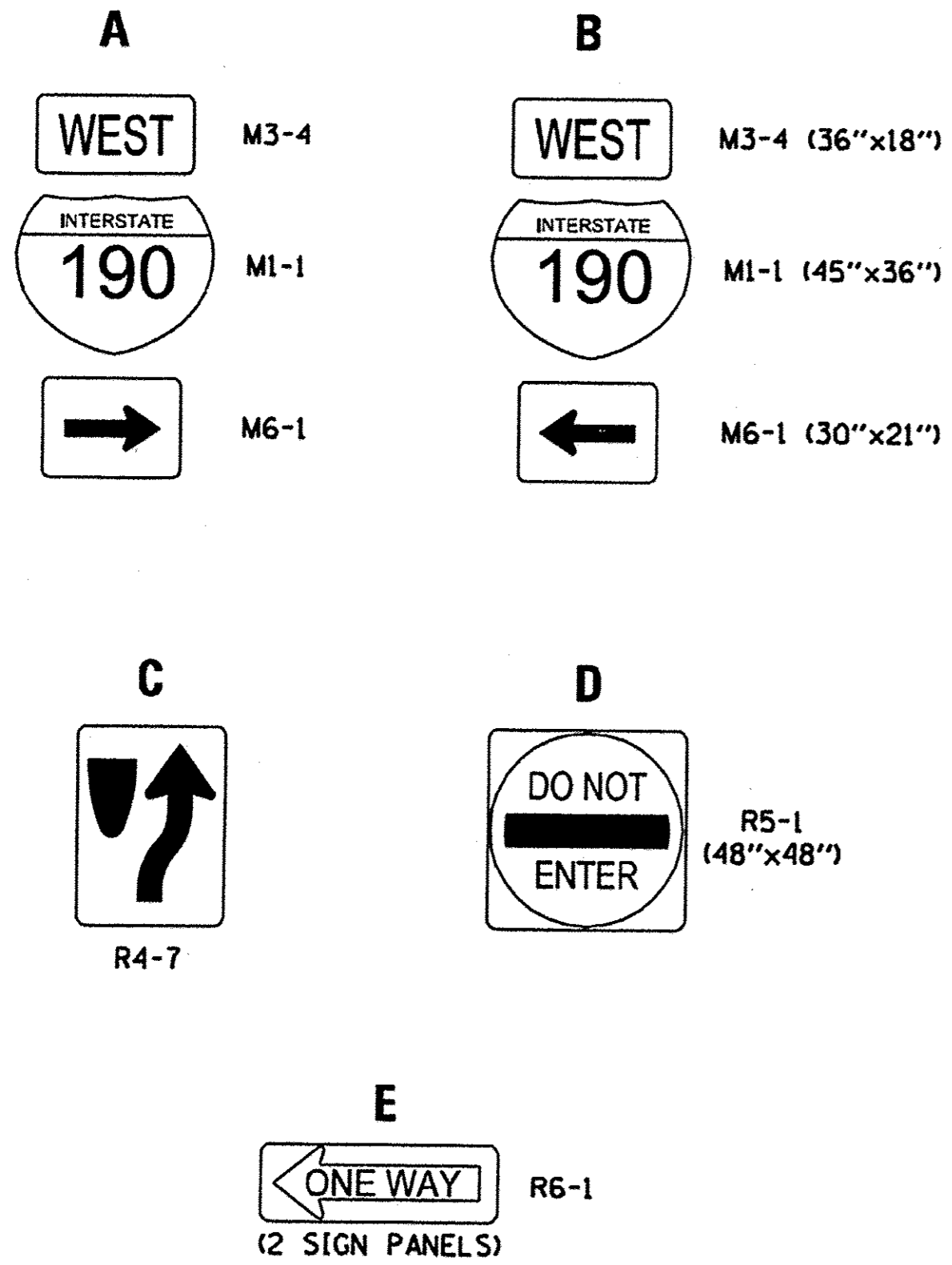
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN (SHEET 2 OF 2)  
DES PLAINES RIVER ROAD AT  
CTA STATION /I-190 WB RAMP**

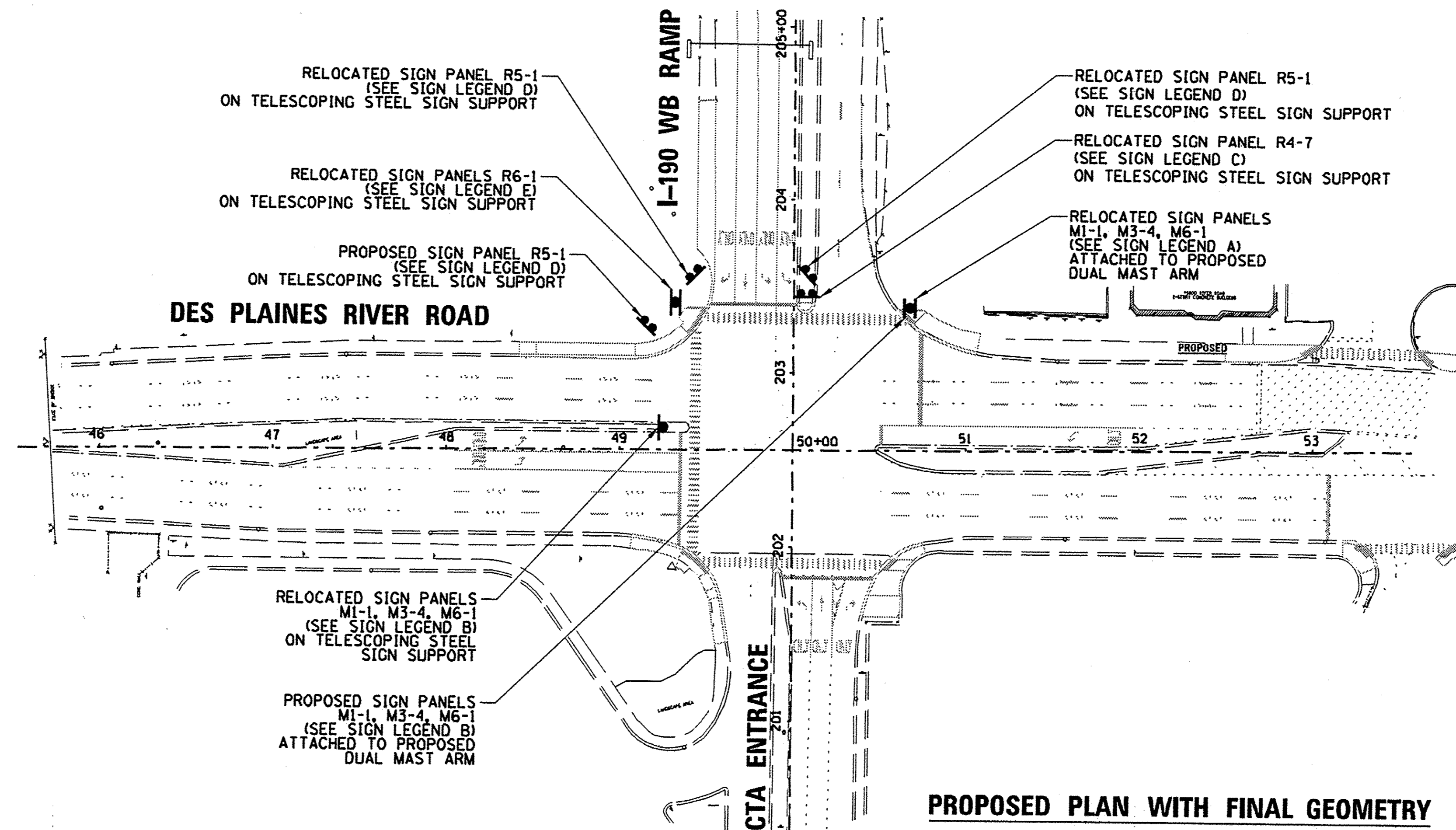
SCALE: 1" = 20'      SHEET NO.    OF    SHEETS    STA.                    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	17
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)			CONTRACT NO. 61D25	

**SIGN PANEL LEGEND:**



**RELOCATION PLAN WITH EXISTING GEOMETRY**



**PROPOSED PLAN WITH FINAL GEOMETRY**

THE COST TO RELOCATE SIGNS INCLUDING ANY REQUIRED MOUNTING HARDWARE SHALL BE INCLUDED IN THE STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS PAY ITEM AND THE TELESCOPING SIGN SUPPORT PAY ITEM.

DATE	BY	DATE	BY
DATE	BY	DATE	BY

CHRISTOPHER D. BURKE ENGINEERING LTD.  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 952-9600

PROFILE  
NOTE BOOK NO.

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
N:\ROSEMONT\12012\Traffic\TS-008.Traffic	Signing.dgn	DRAWN - FPB	REVISED -
	PLOT SCALE = 1/80'	CHECKED - GMZ	REVISED -
	PLOT DATE = 12/7/2016	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNING PLAN  
DES PLAINES RIVER ROAD AT  
CTA STATION / I-190 WB RAMP

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	18
CONTRACT NO. 61025				

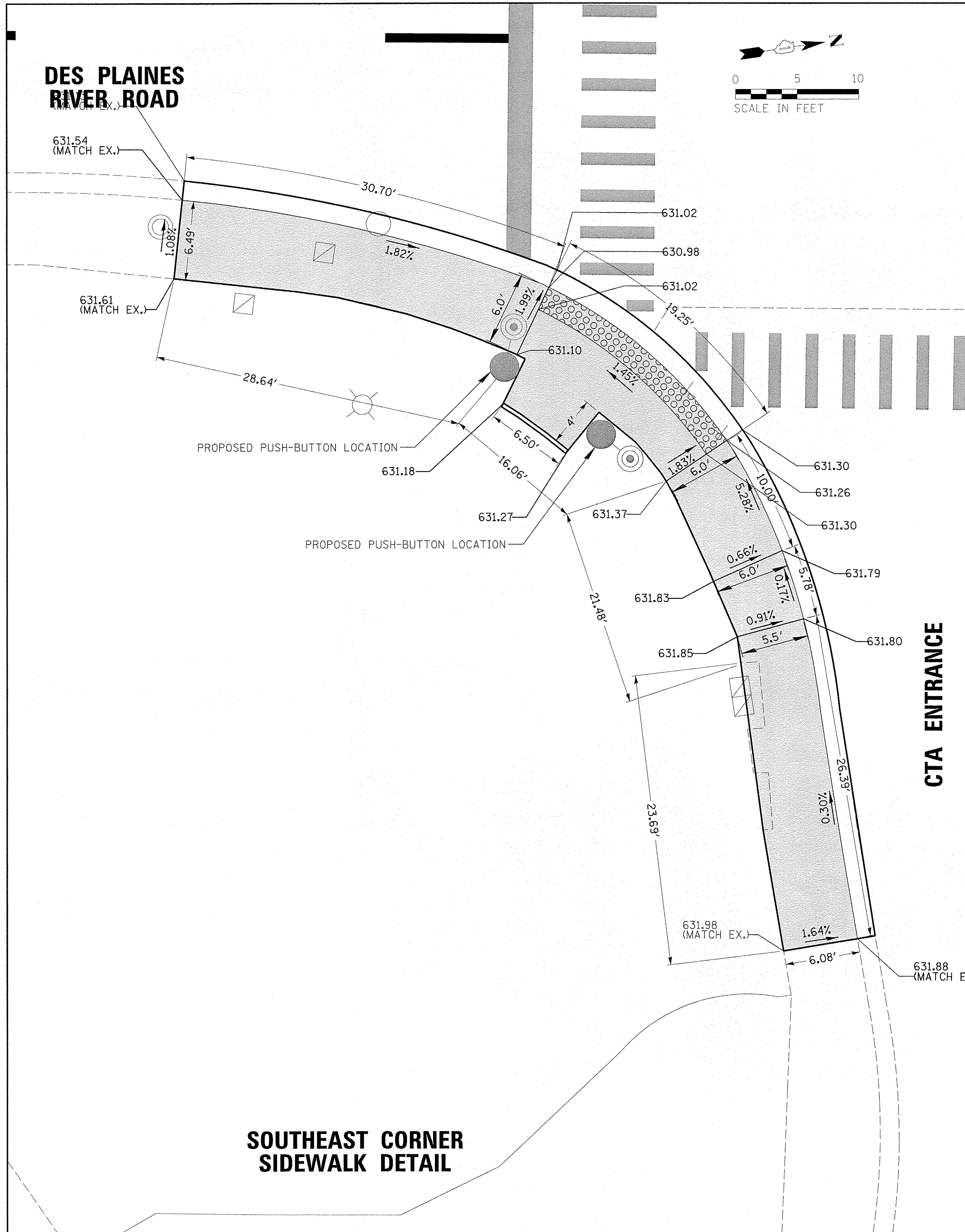
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)



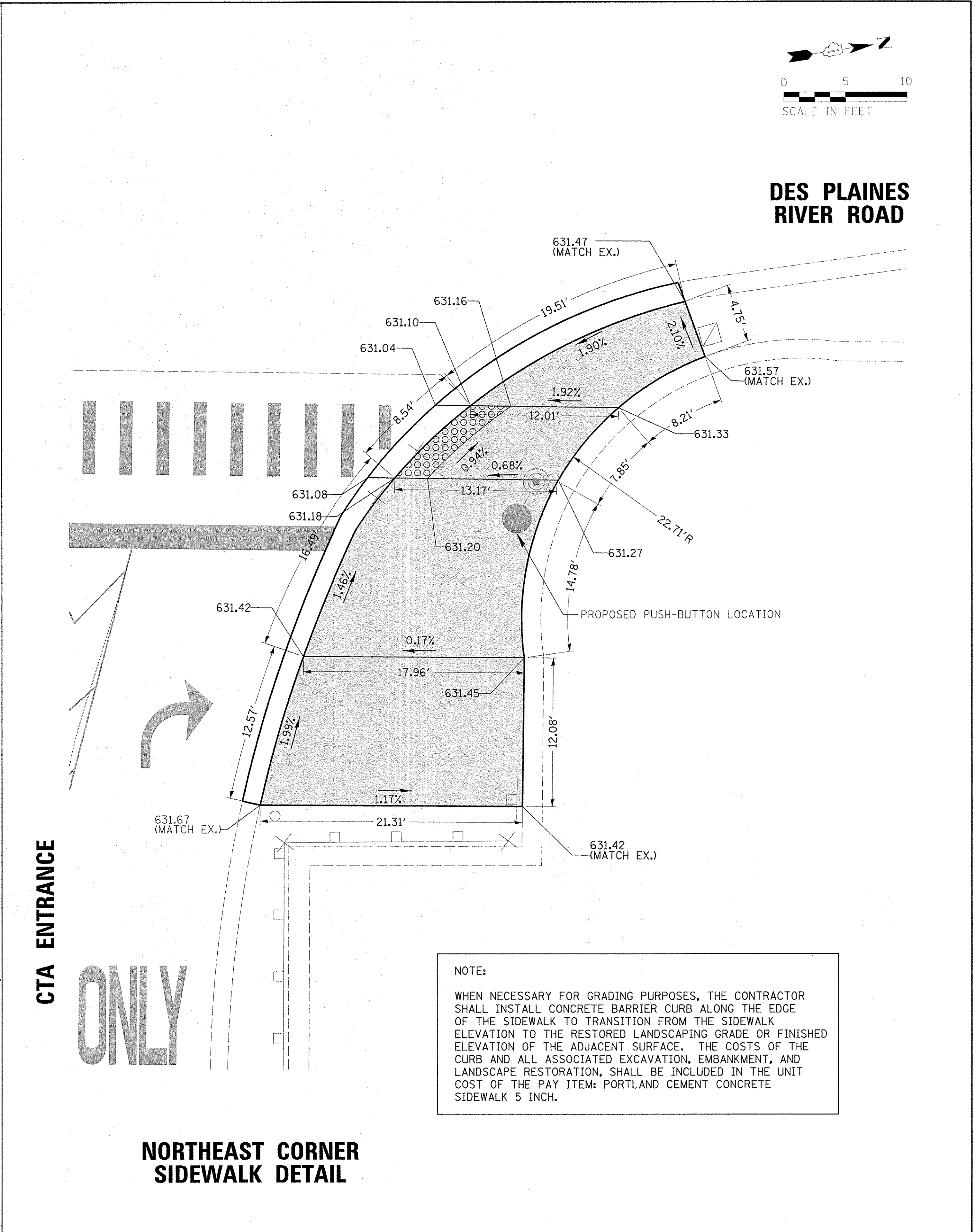
DATE	BY	DATE	BY
DATE	BY	DATE	BY

CHRISTOPHER B. BURKE  
ENGINEERING LTD.  
8575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0600

DATE	BY



**SOUTHEAST CORNER  
SIDEWALK DETAIL**



**NORTHEAST CORNER  
SIDEWALK DETAIL**

**ONLY**

**NOTE:**  
WHEN NECESSARY FOR GRADING PURPOSES, THE CONTRACTOR SHALL INSTALL CONCRETE BARRIER CURB ALONG THE EDGE OF THE SIDEWALK TO TRANSITION FROM THE SIDEWALK ELEVATION TO THE RESTORED LANDSCAPING GRADE OR FINISHED ELEVATION OF THE ADJACENT SURFACE. THE COSTS OF THE CURB AND ALL ASSOCIATED EXCAVATION, EMBANKMENT, AND LANDSCAPE RESTORATION, SHALL BE INCLUDED IN THE UNIT COST OF THE PAY ITEM: PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH.

FILE NAME = N:\ROSEMONT\12012\Traffic\TS-010_SWP.ctb	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIDEWALK / CURB RAMP GRADING PLAN DES PLAINES RIVER ROAD AT CTA ENTRANCE ROSEMONT, ILLINOIS</b>			F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 20
	PLOT SCALE = 5'	DRAWN - FPB	REVISED -		SCALE: 1" = 5'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 61D25		
	PLOT DATE = 10/17/2016	CHECKED - GMZ	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT : M-4003(677)							
		DATE -	REVISED -									

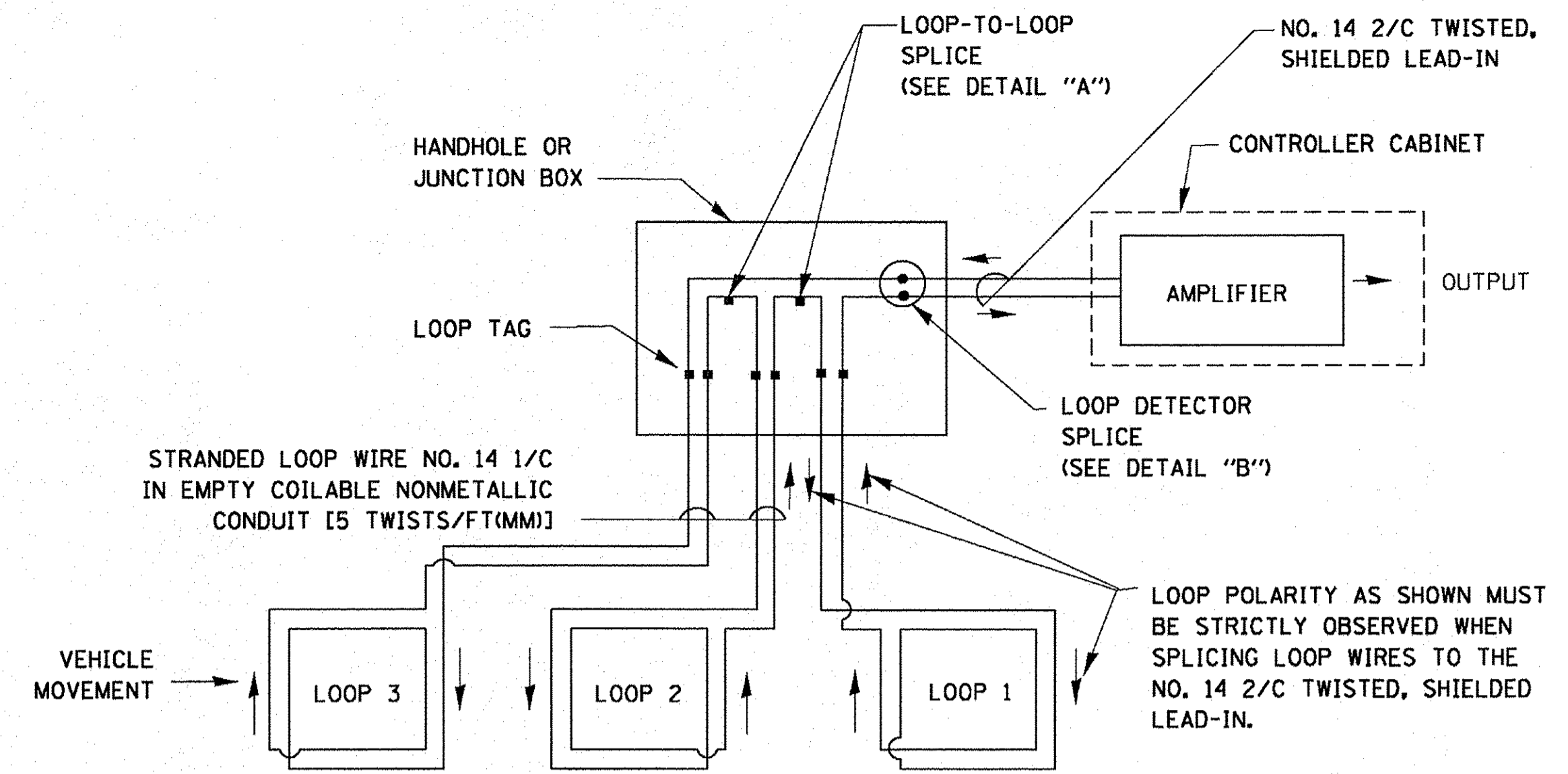
# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PREFORMED QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<b>RAILROAD SYMBOLS</b>			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				RAILROAD CONTROL CABINET			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				FLASHING SIGNAL			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT				CROSSING GATE			
DETECTOR LOOP, TYPE I				RADIO REPEATER				CROSSBUCK			
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

TS SHT NO. 1

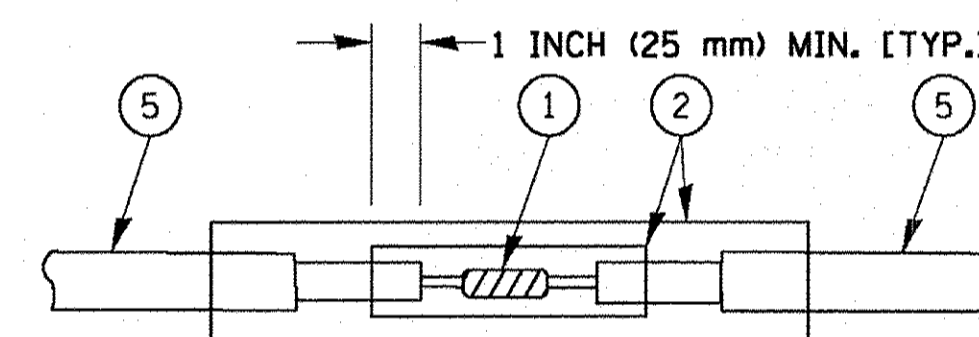
**LOOP DETECTOR NOTES**

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

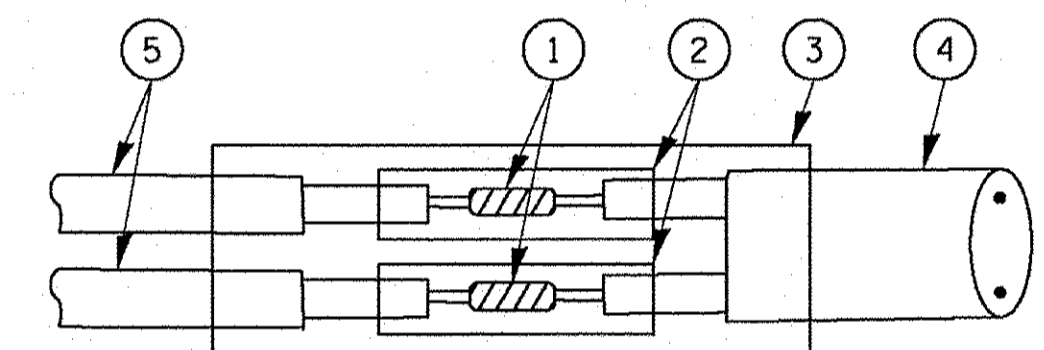


**DETECTOR LOOP WIRING SCHEMATIC**

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

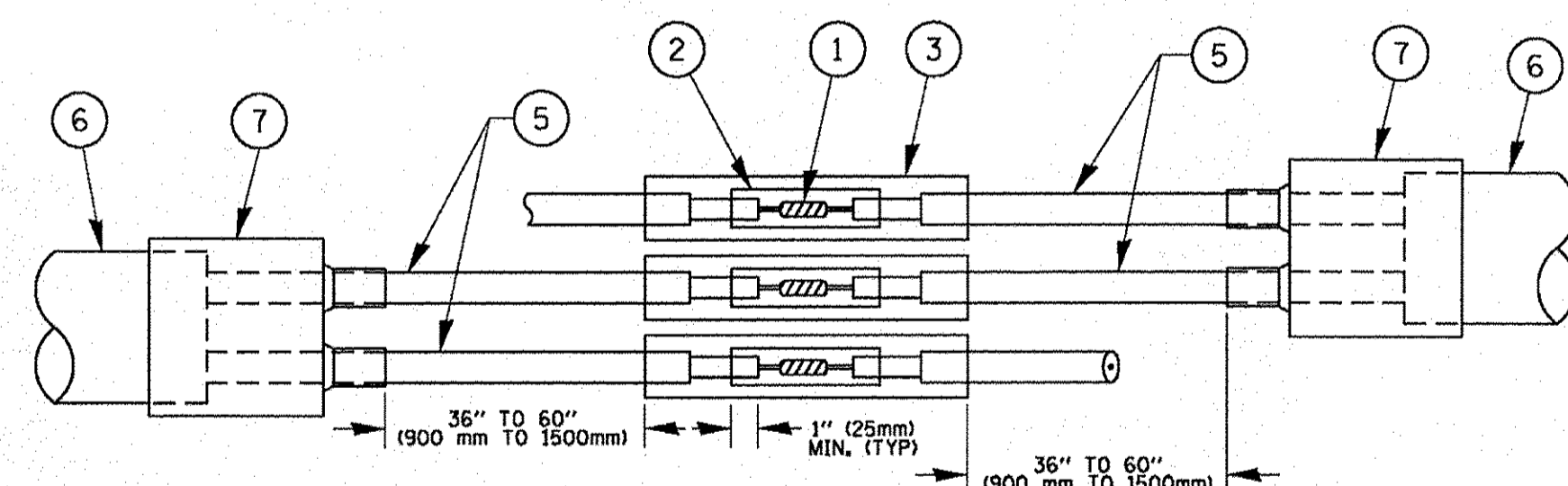


DETAIL "A"  
LOOP-TO-LOOP SPLICE

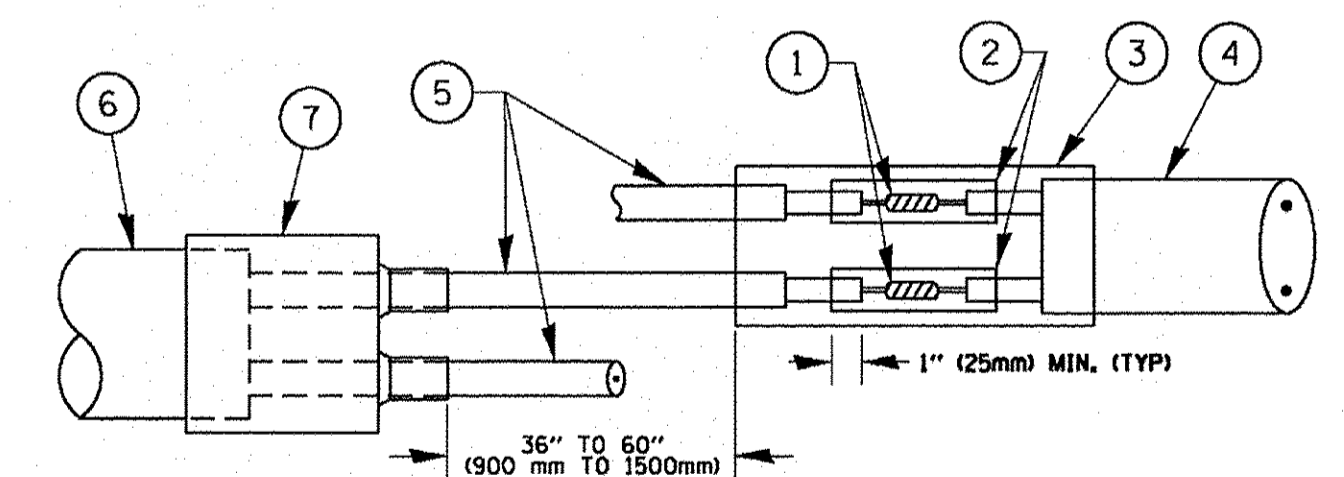


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE

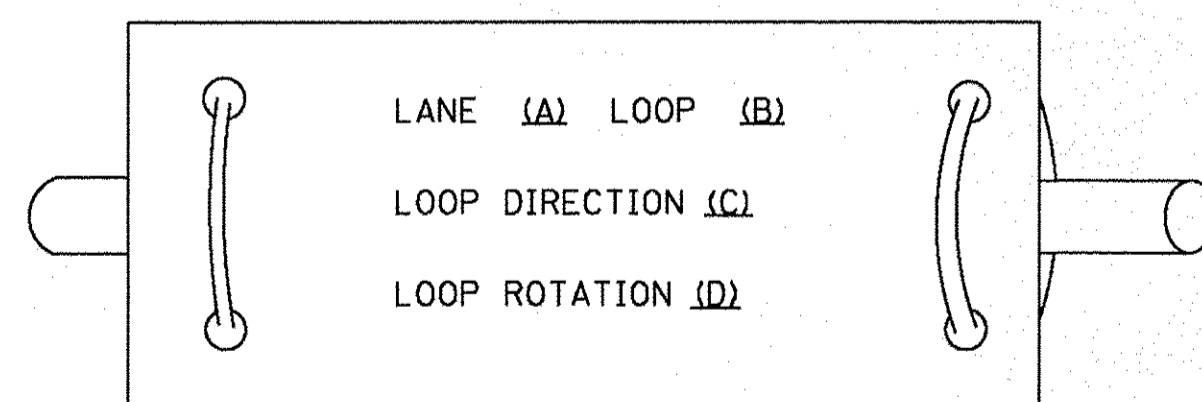


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PRE-FORMED LOOP**

**LOOP DETECTOR SPLICE**

**LOOP LEAD-IN CABLE TAG**



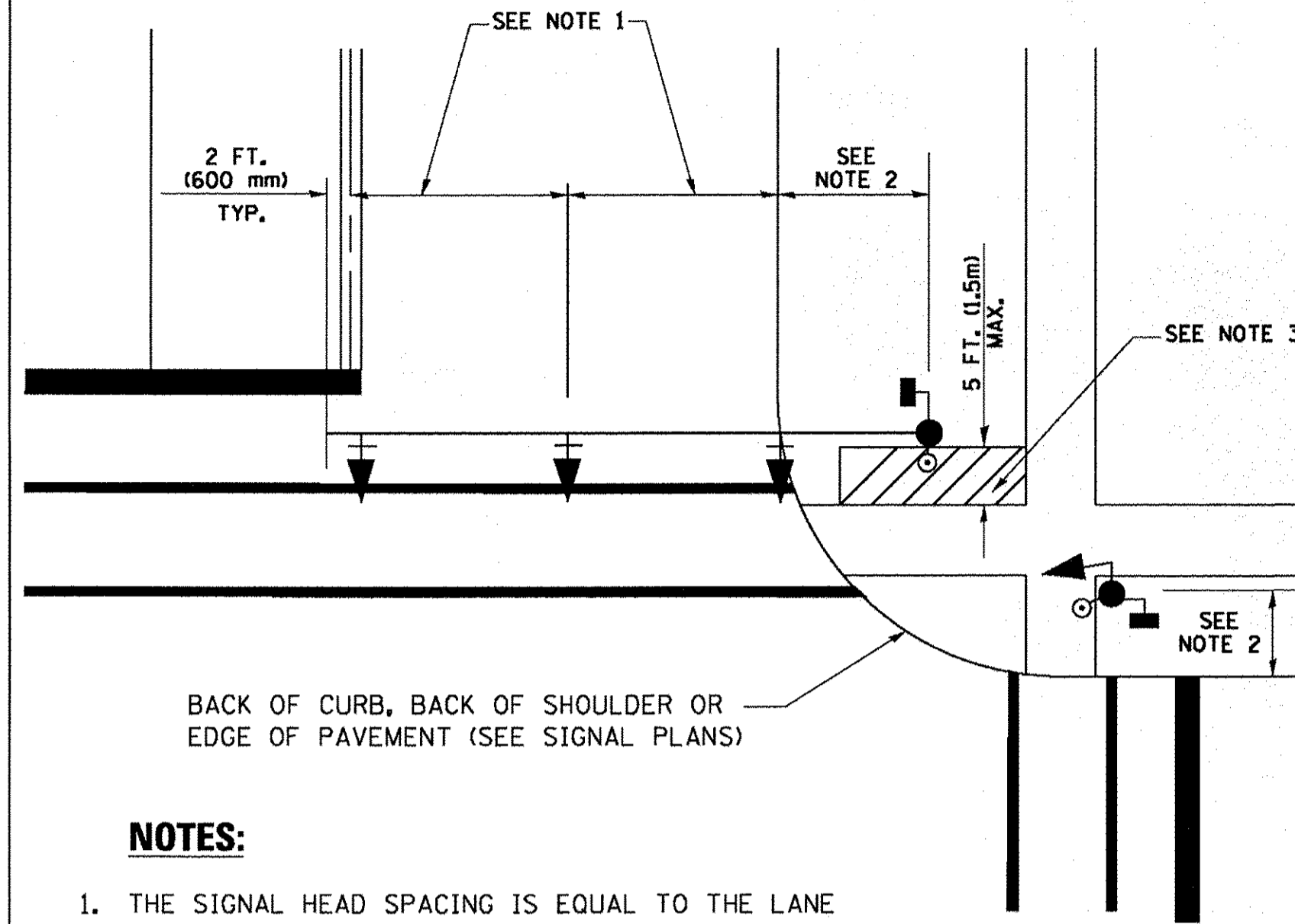
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

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

TS SHT NO. 2

FILE NAME =	USER NAME = Footamj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.L.L. RTE. = 8522	SECTION = 13-00032-00-TL	COUNTY = COOK	TOTAL SHEETS = 61	SHEET NO. = 22	
ct:\pw_work\p\idat\footamj\d0108315\ts05.dgn	DRAWN - BCK	CHECKED - DAD	REVISED -			SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. = 61D25
PLOT SCALE = 50,0000 "/ in.	DATE - 10-28-09	DATE - 10-28-09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT: M-4003(677)					
PLOT DATE = 1/13/2014											

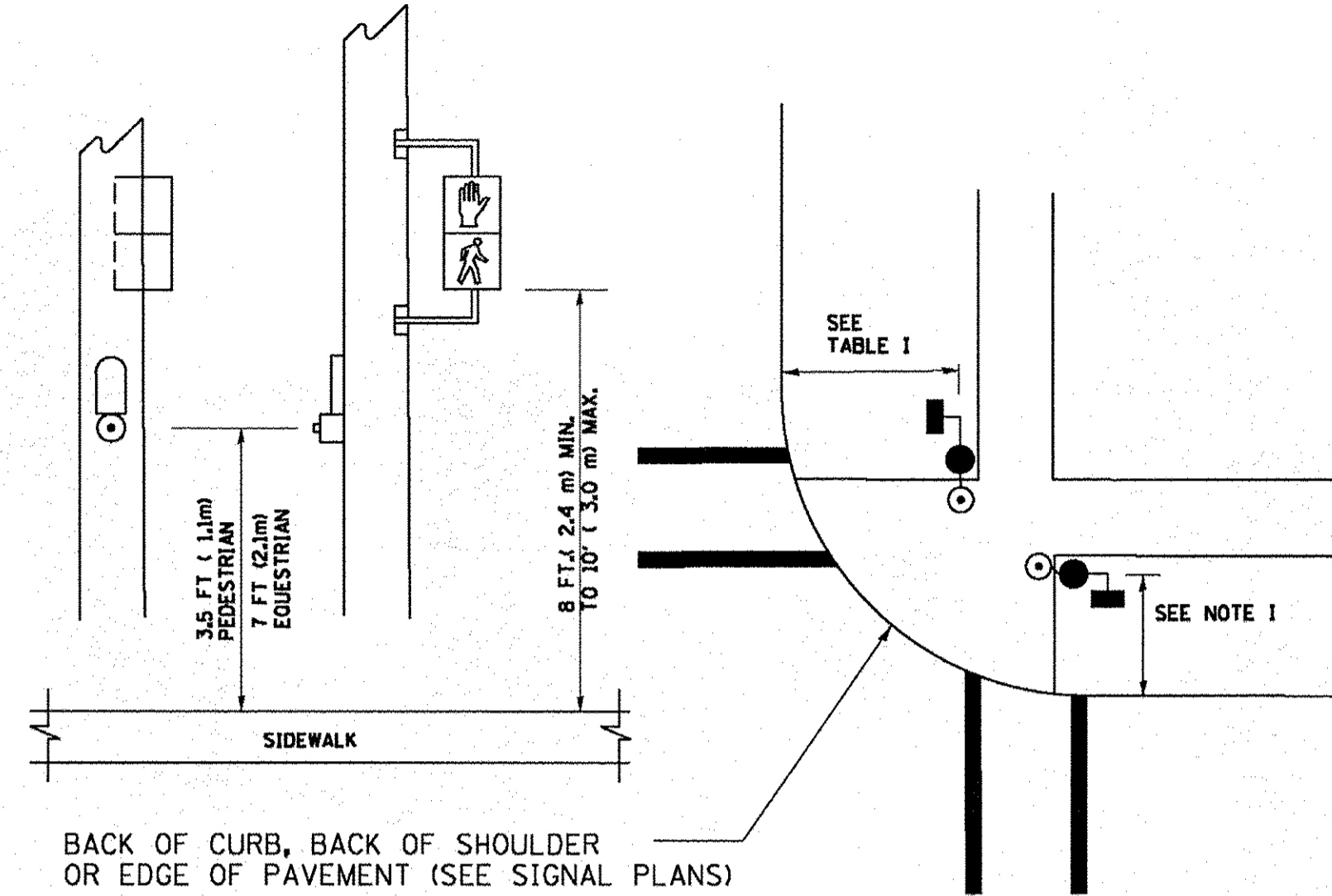
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

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

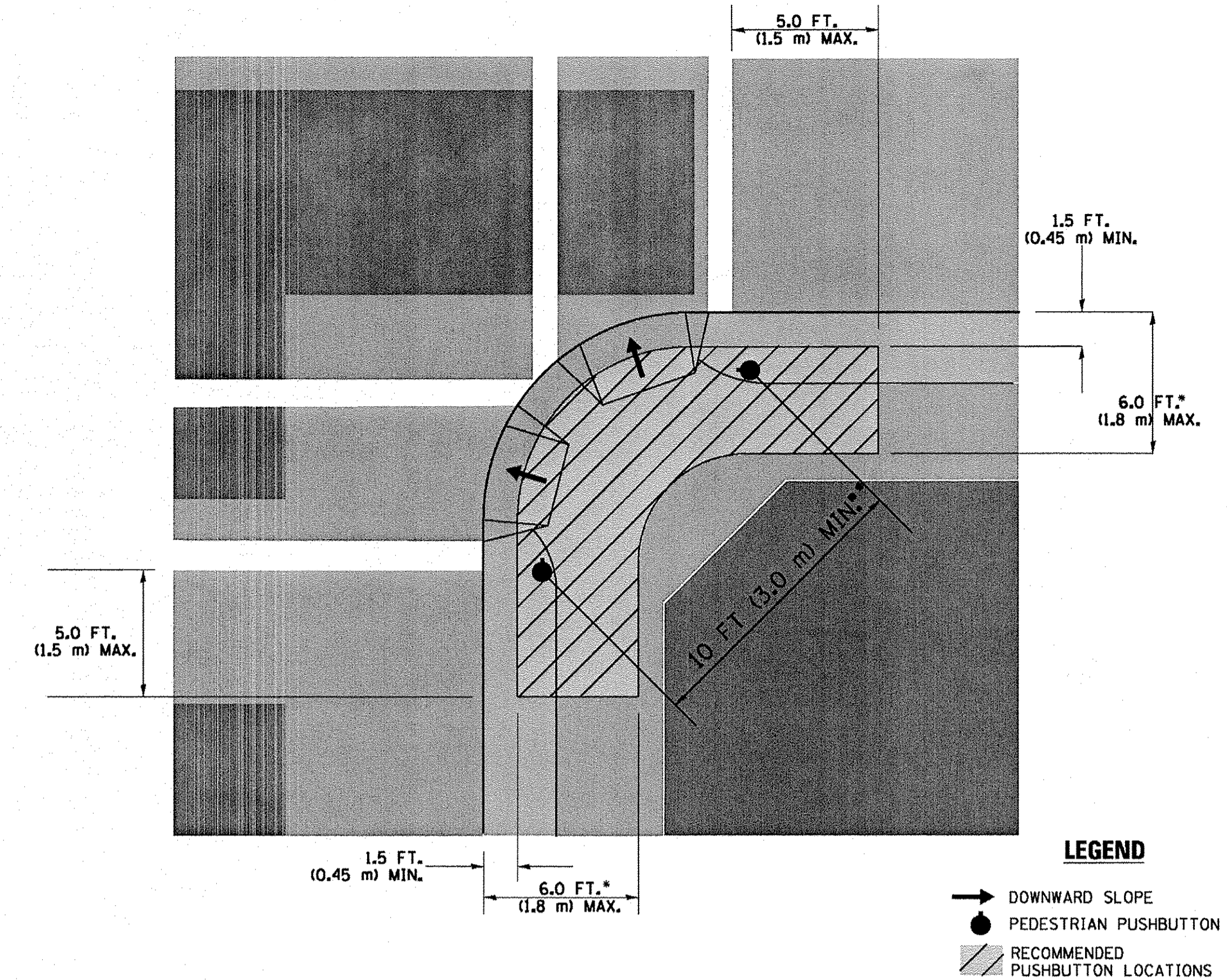
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



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

**NOTES:**

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

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

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

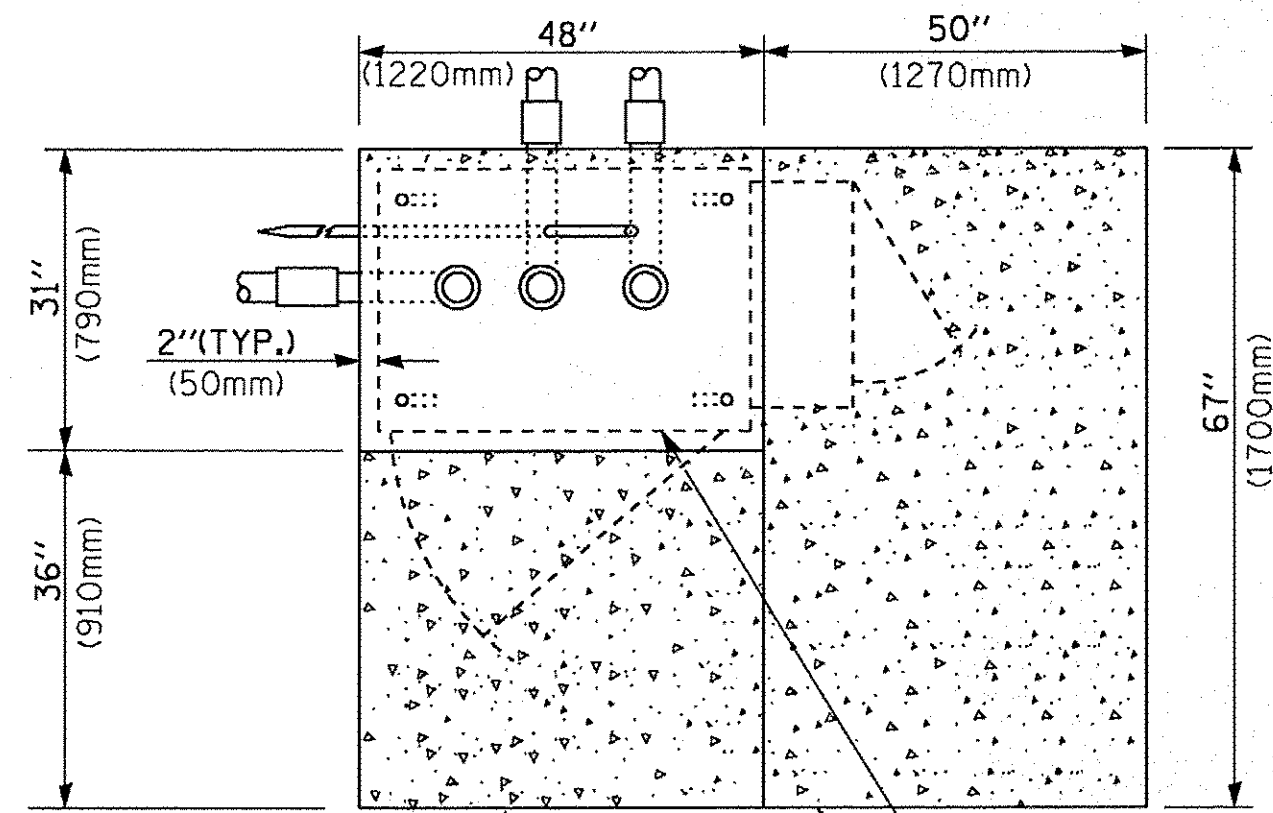
**NOTES:**

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

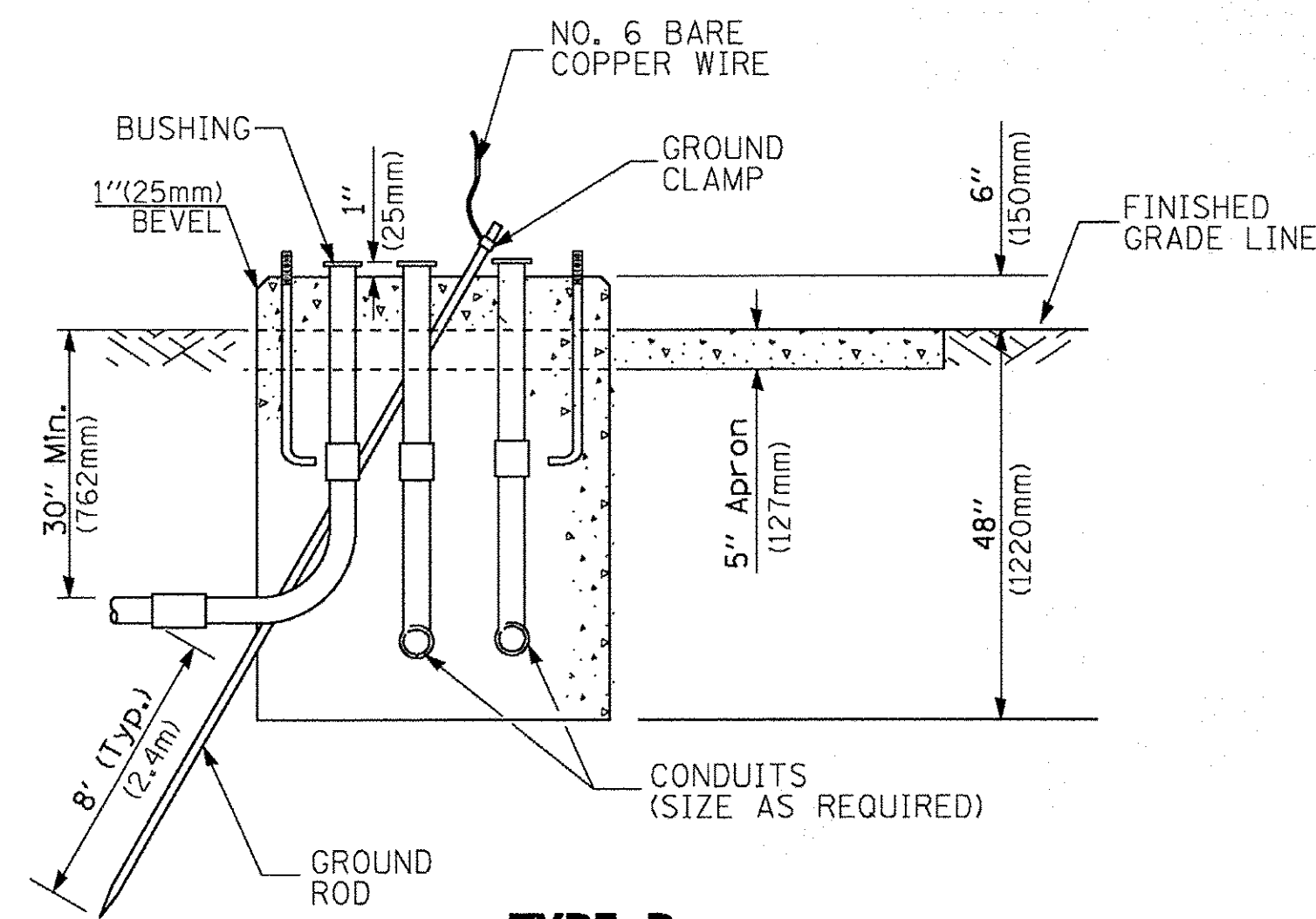
TS SHT NO. 3



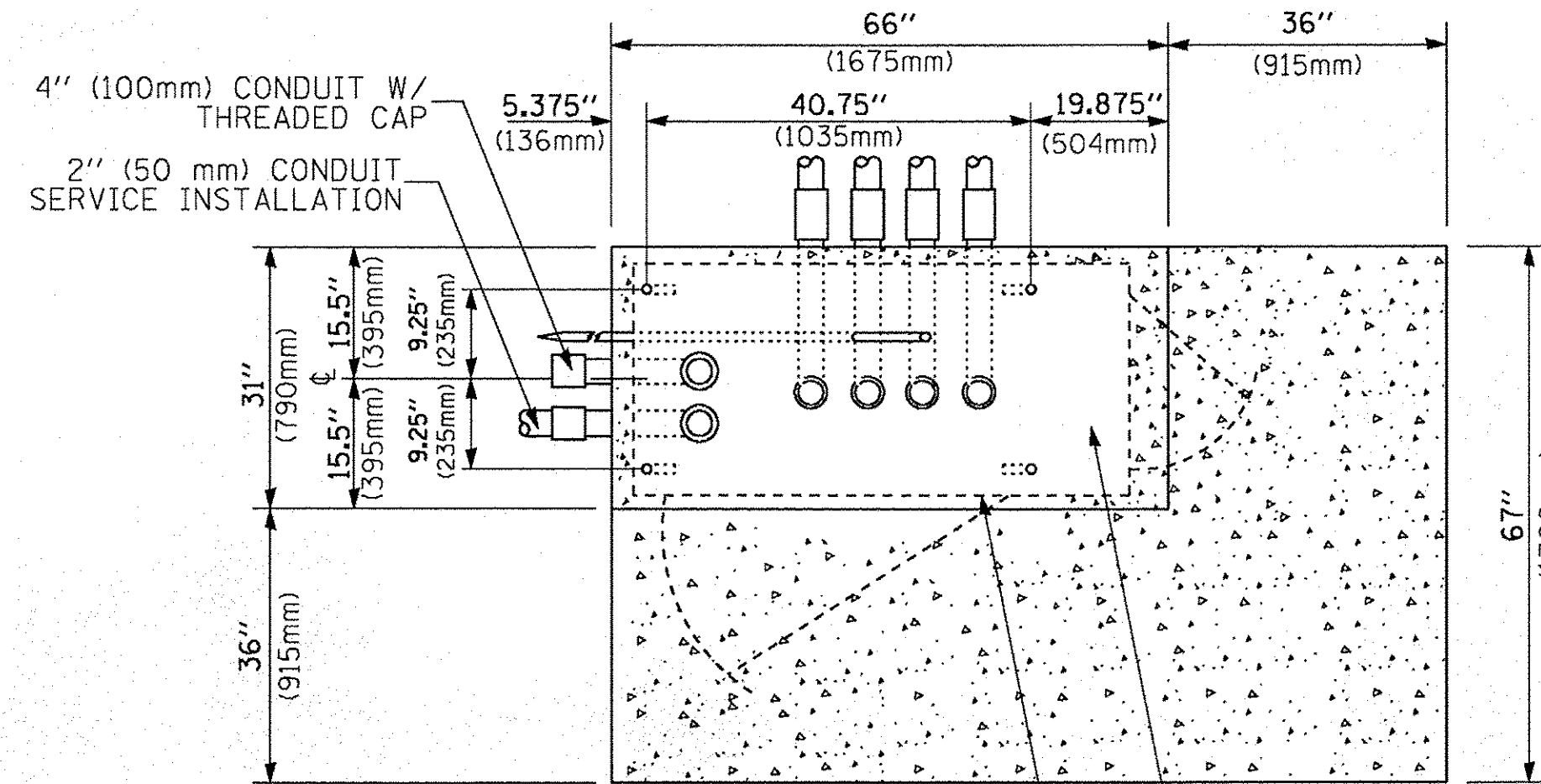




**TOP VIEW**



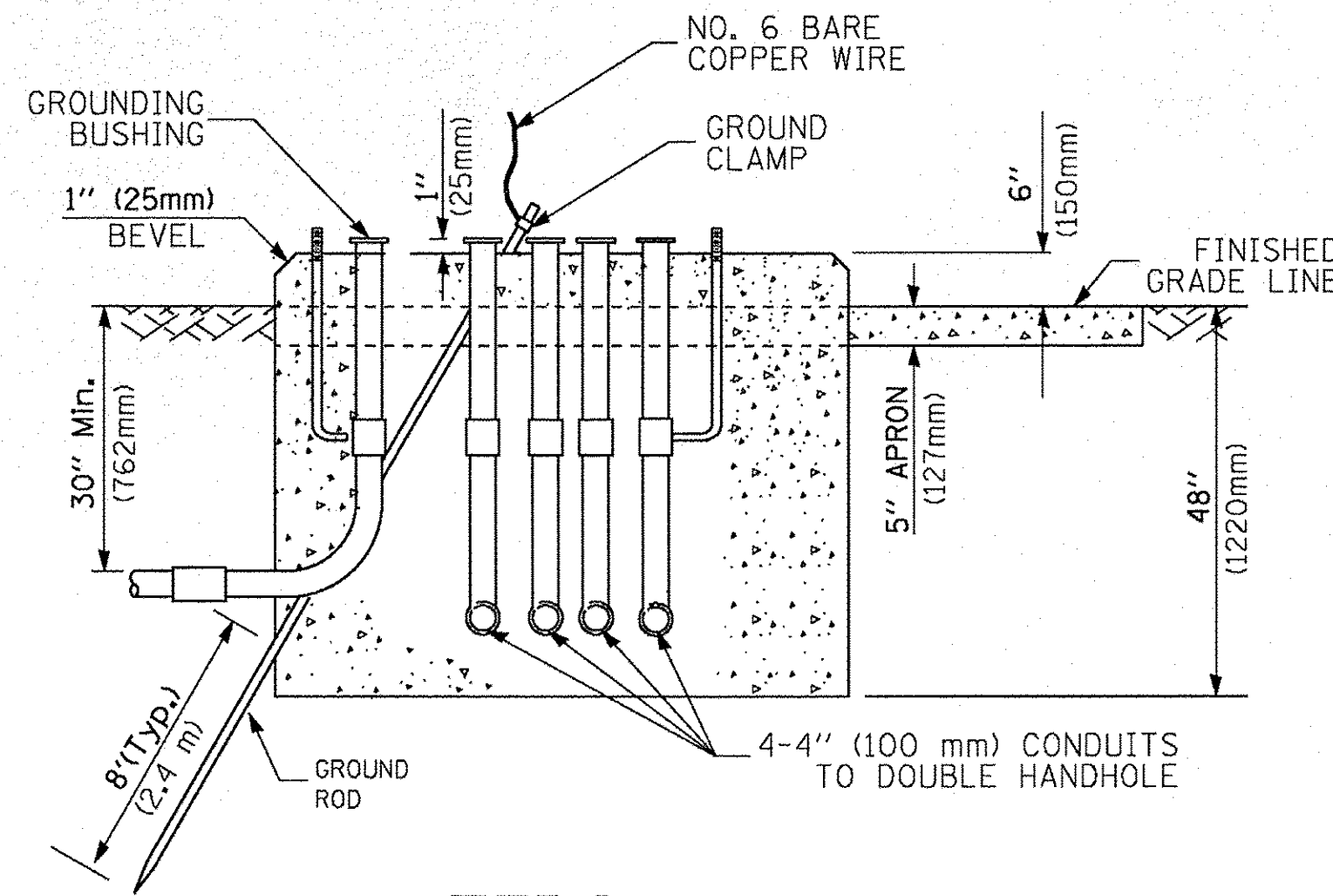
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TOP VIEW**

**NOTE:**

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

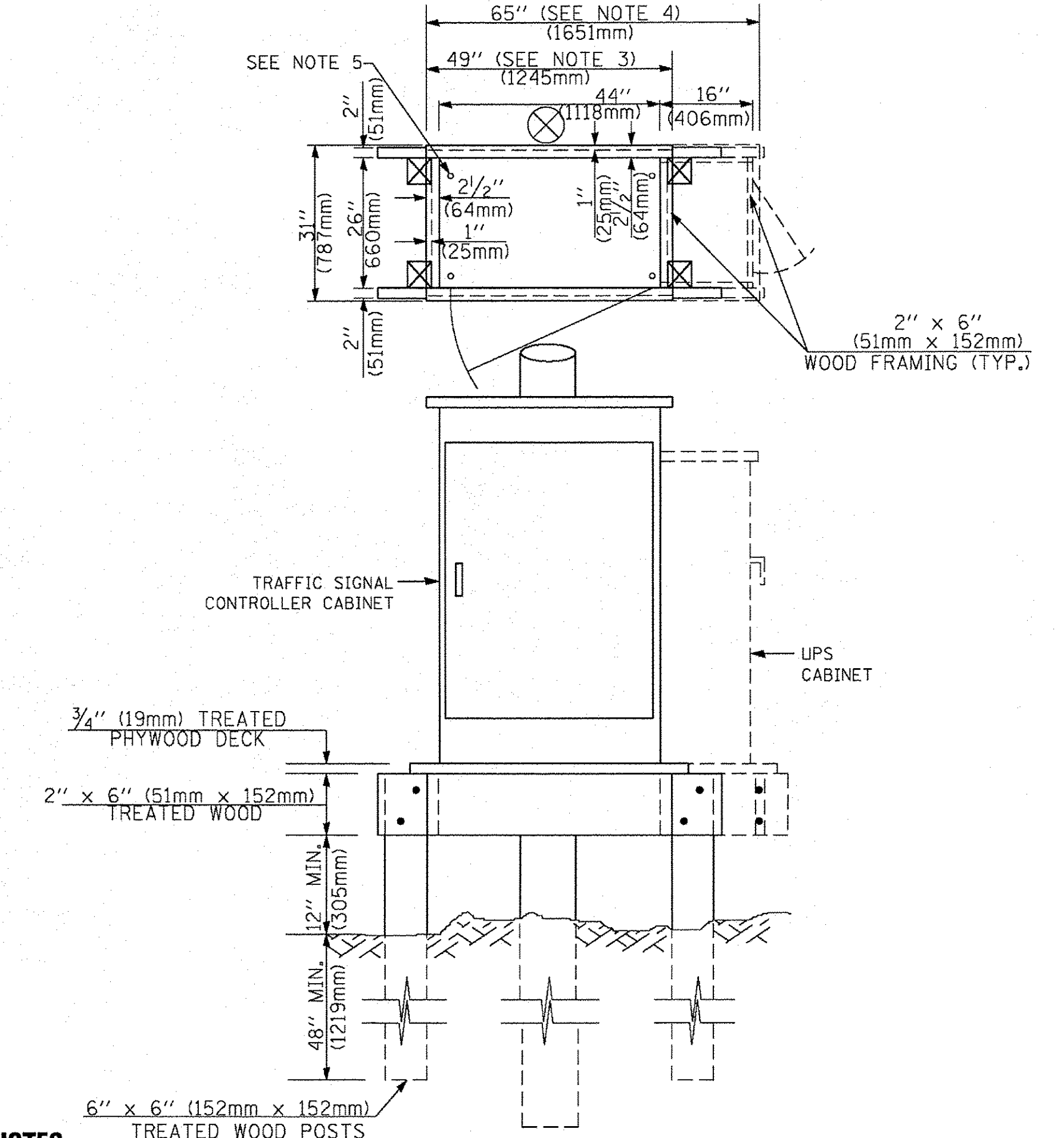
**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

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

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



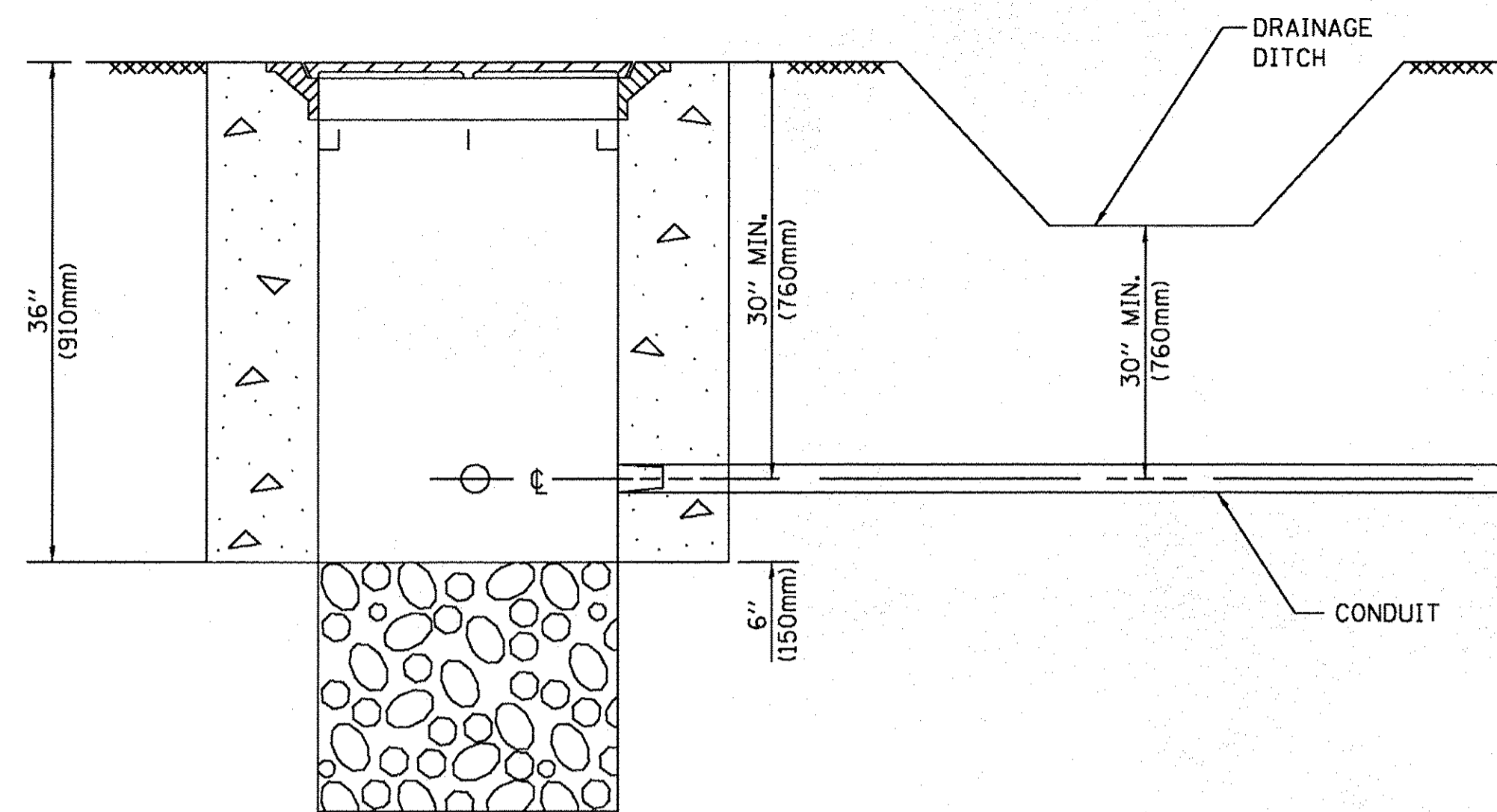
**NOTES:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

TS SHT NO. 5

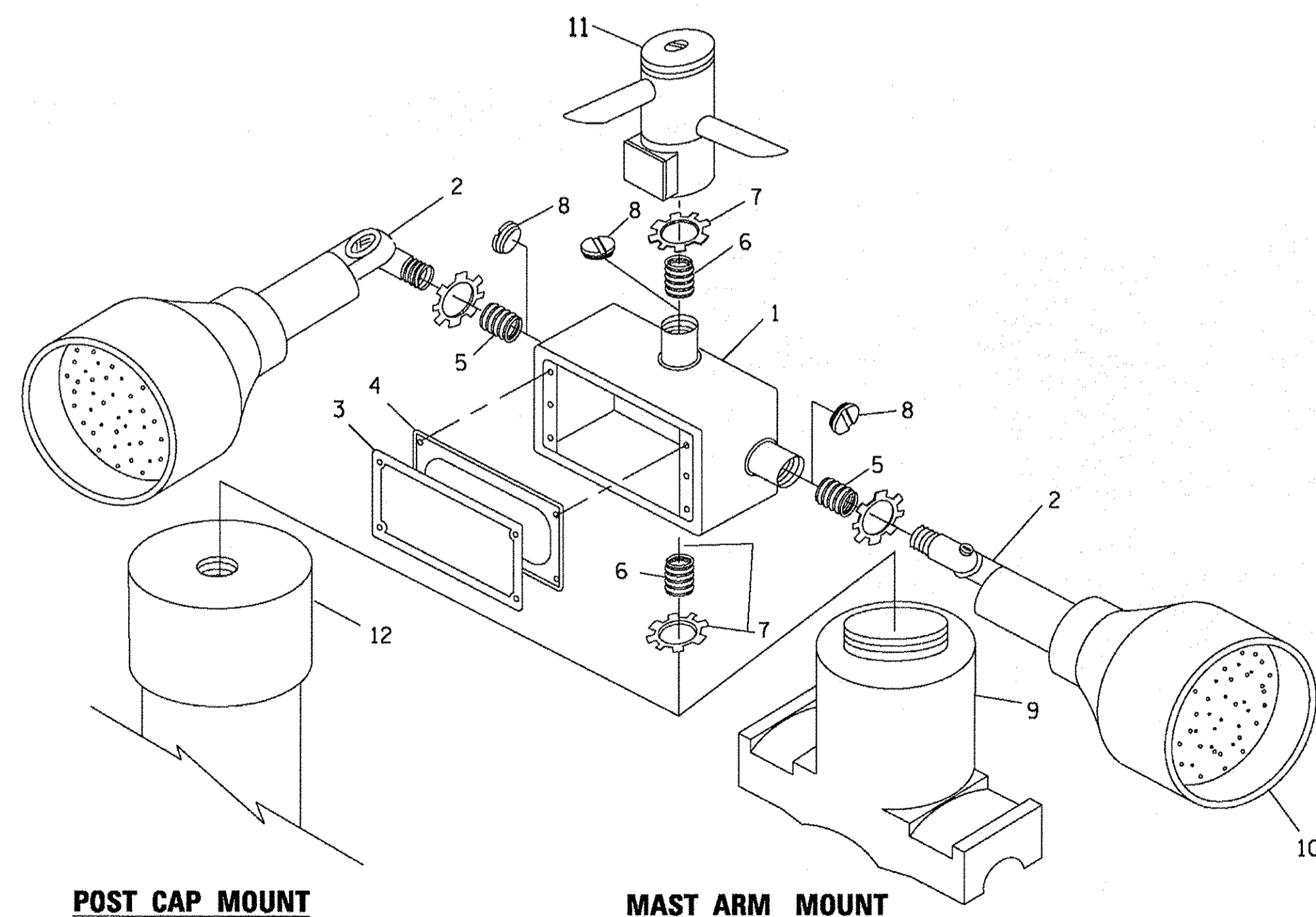
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ct:\pw_work\p1dot\Footemj\d0108315\ts05.dgn	DRAWN - BCK	REVISED -	8522			13-00032-00-TL	COOK	61	25	
PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -	<b>TS-05</b>			CONTRACT NO.	61025			
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT: M-4003(677)							



**NOTES:**

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

**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)

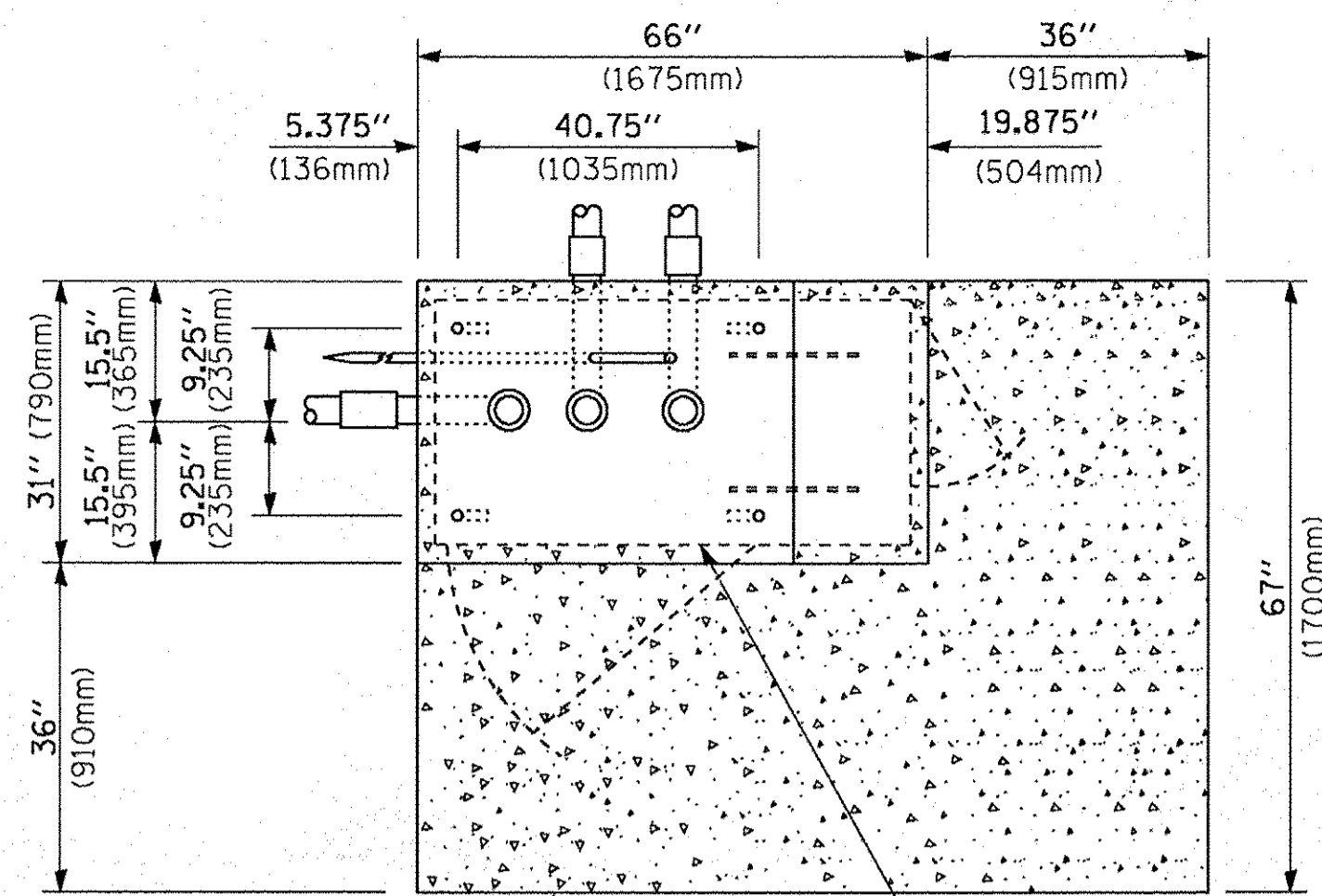


**POST CAP MOUNT**      **MAST ARM MOUNT**  
**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

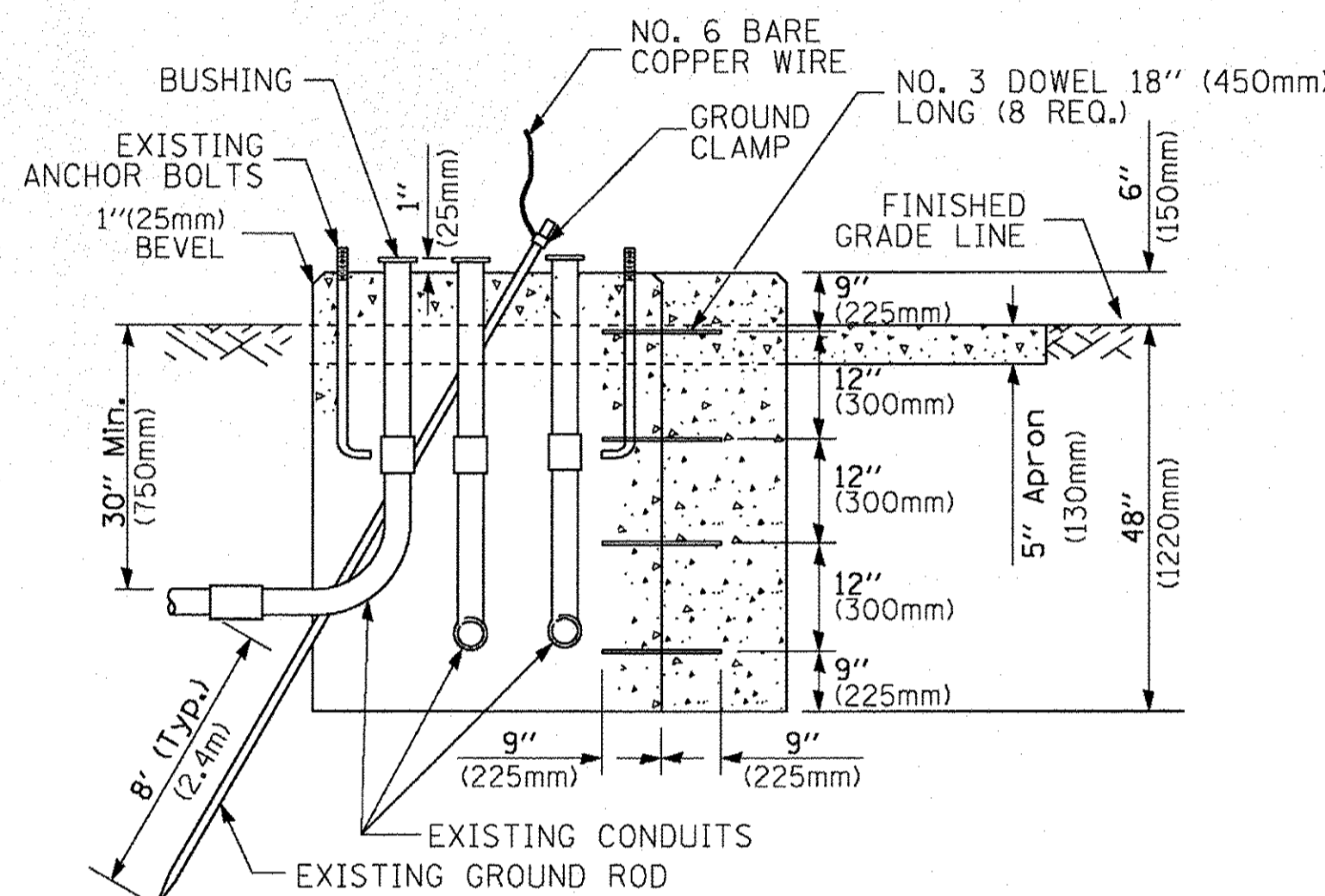
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT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

**NOTES:**

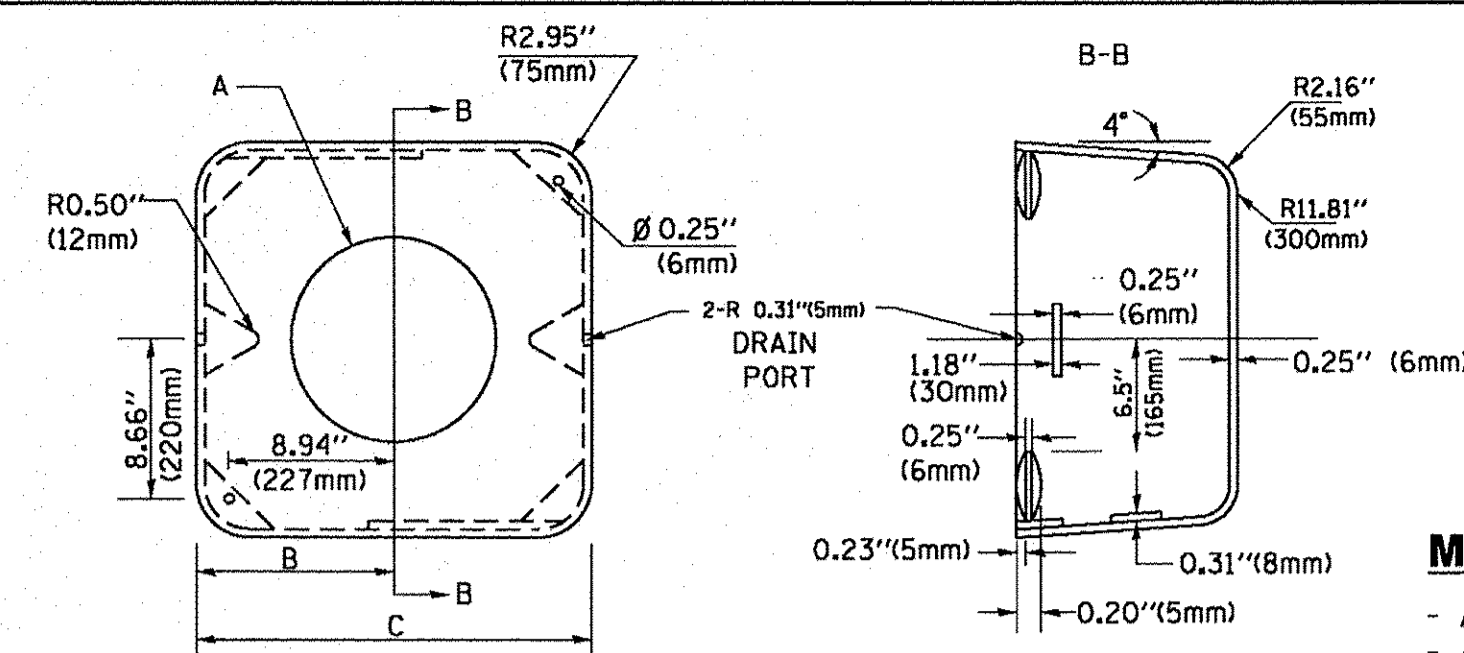
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED.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



**TOP VIEW**  
(NOT TO SCALE)



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



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

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

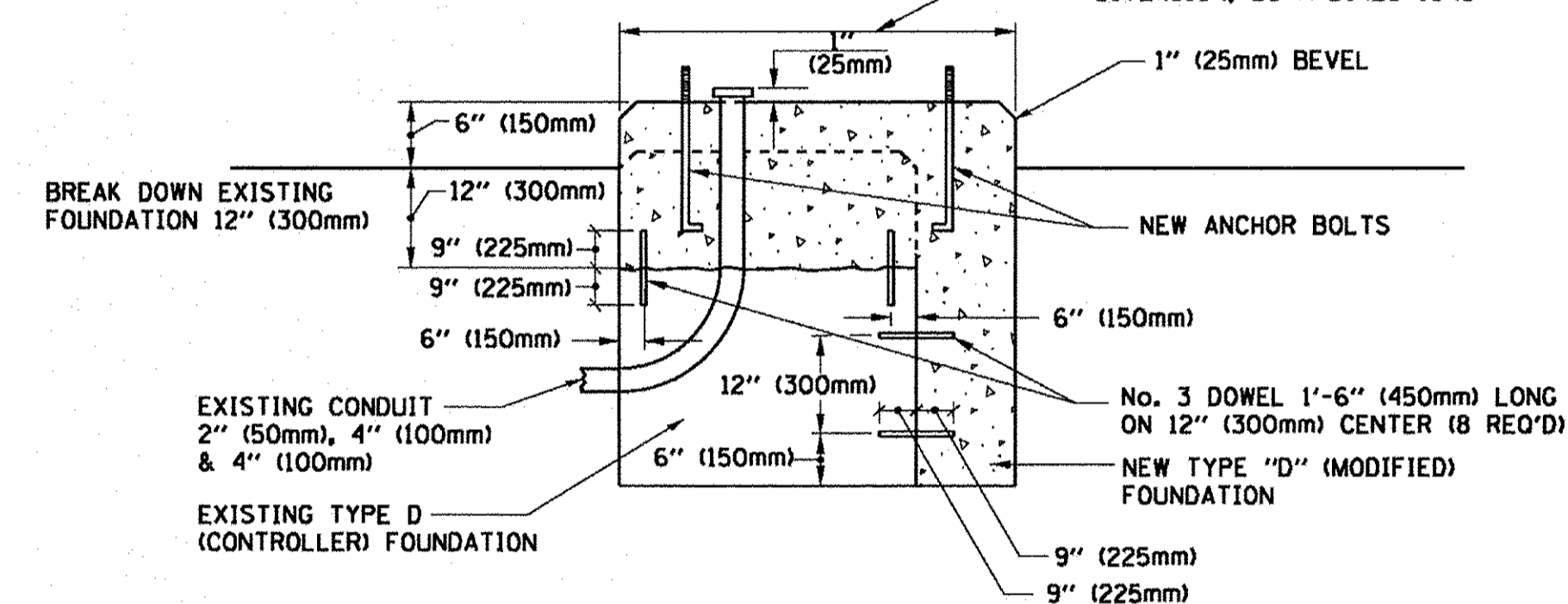
**SHROUD**

**NOTES:**

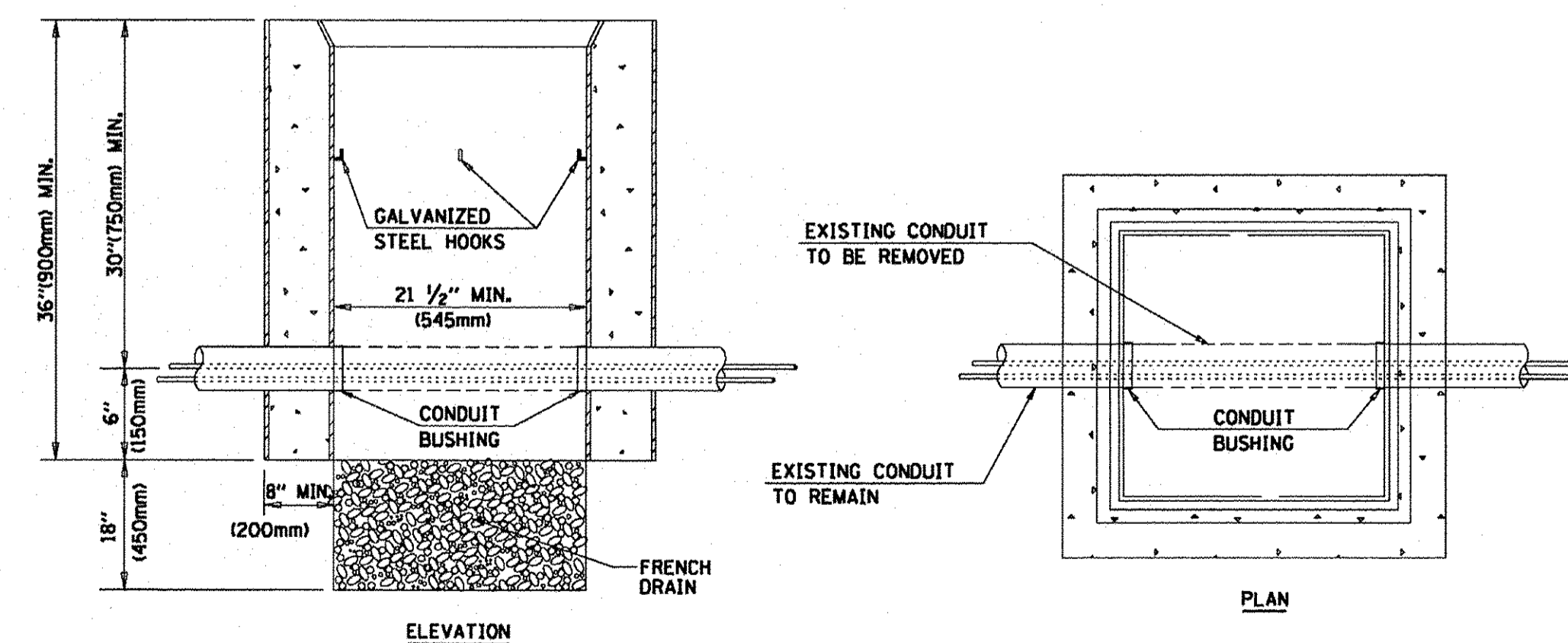
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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

**NOTE:**

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



**MODIFY EXISTING TYPE "D" FOUNDATION**

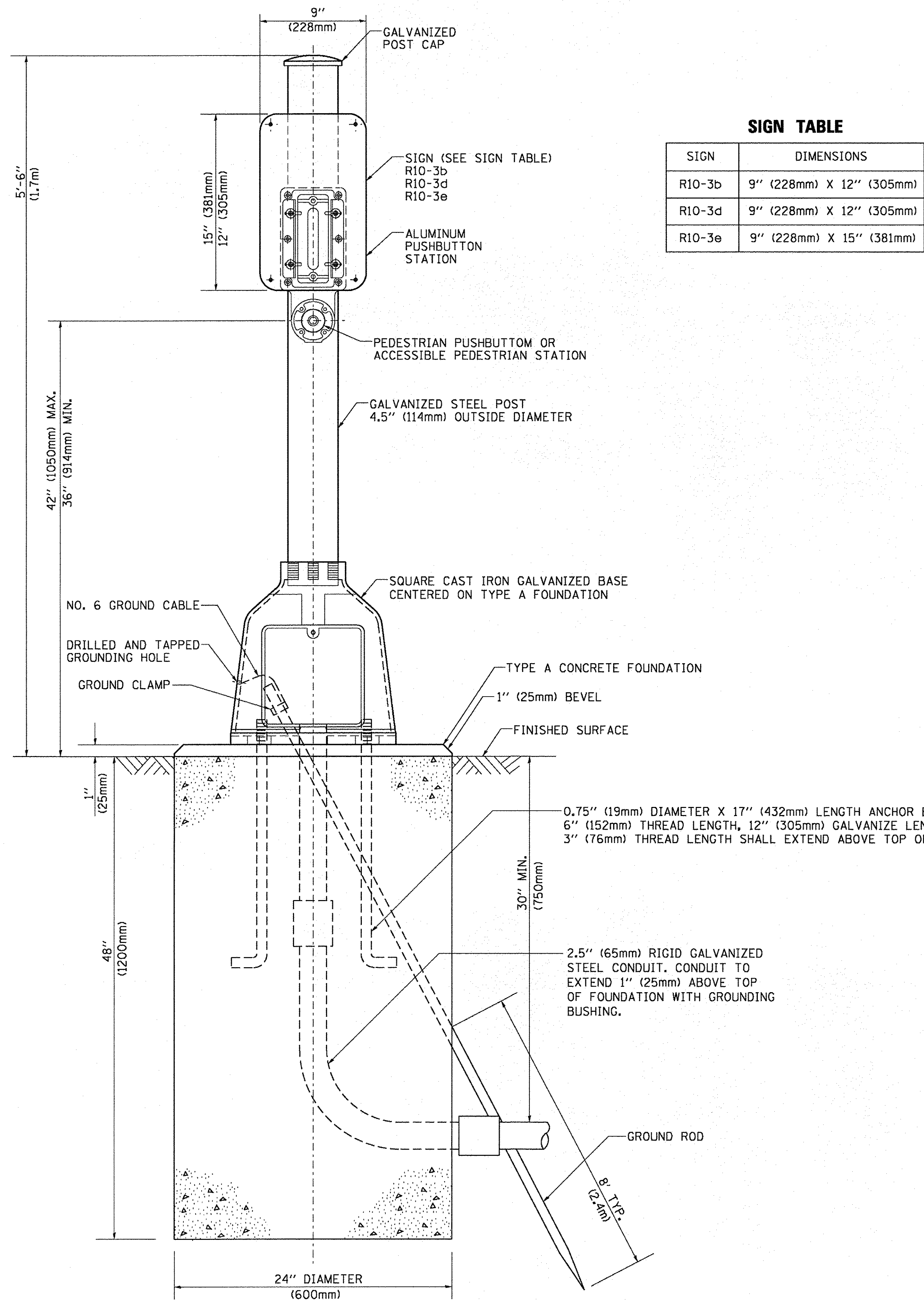


**NOTES:**

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

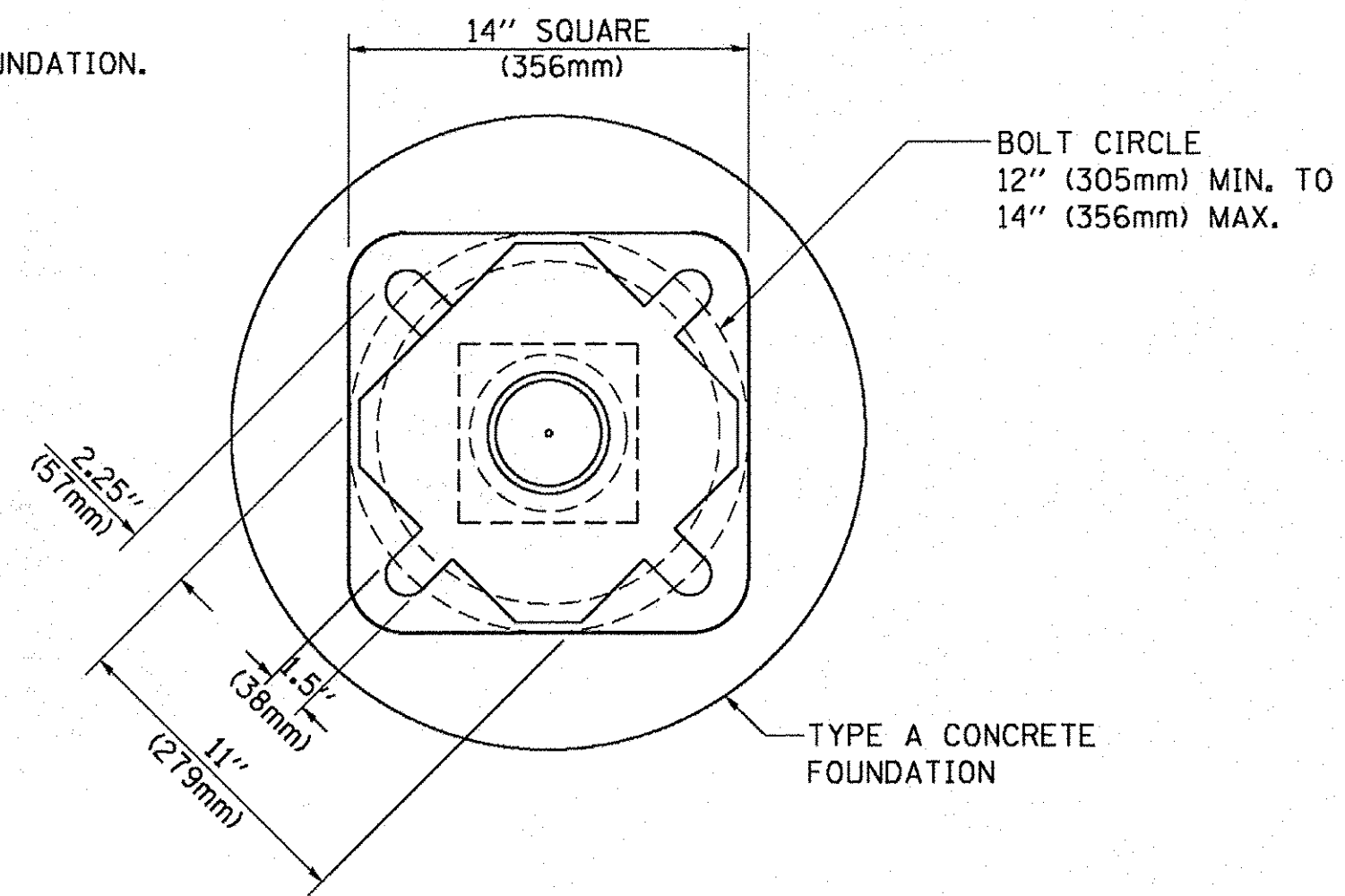
**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

TS SHT NO. 6



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME =	USER NAME = FootemJ	DESIGNED - DAG	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct\pw_work\pwidot\FootemJ\d0108315\ts05.dgn	DRAWN - GND	REVISED -	8522			13-00032-00-TL	COOK	61	27	
PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -	<b>TS-05</b>			<b>CONTRACT NO. 61025</b>				
PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -	SCALE: NONE			SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT: M-4003(677)	



PROFILE  
 DATE  
 BY  
 CHECKED  
 PLOTTED  
 GRADES CHECKED  
 STRUCTURE NOTATIONS CHECKED  
 NOTE BOOK NO.  
 NO.

PLAN  
 DATE  
 BY  
 CHECKED  
 PLOTTED  
 ALIGNMENT CHECKED  
 ELEVATION CHECKED  
 CADD FILE NAME  
 NO.

**CHRISTOPHER B. BURKE** ENGINEERING LTD.  
 9275 West Higgins Road, Suite 600  
 Chicago, IL 60631  
 (847) 822-0500

TS SHT NO. 9

**REMOVAL NOTES:**

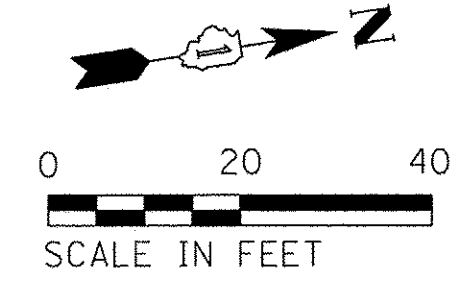
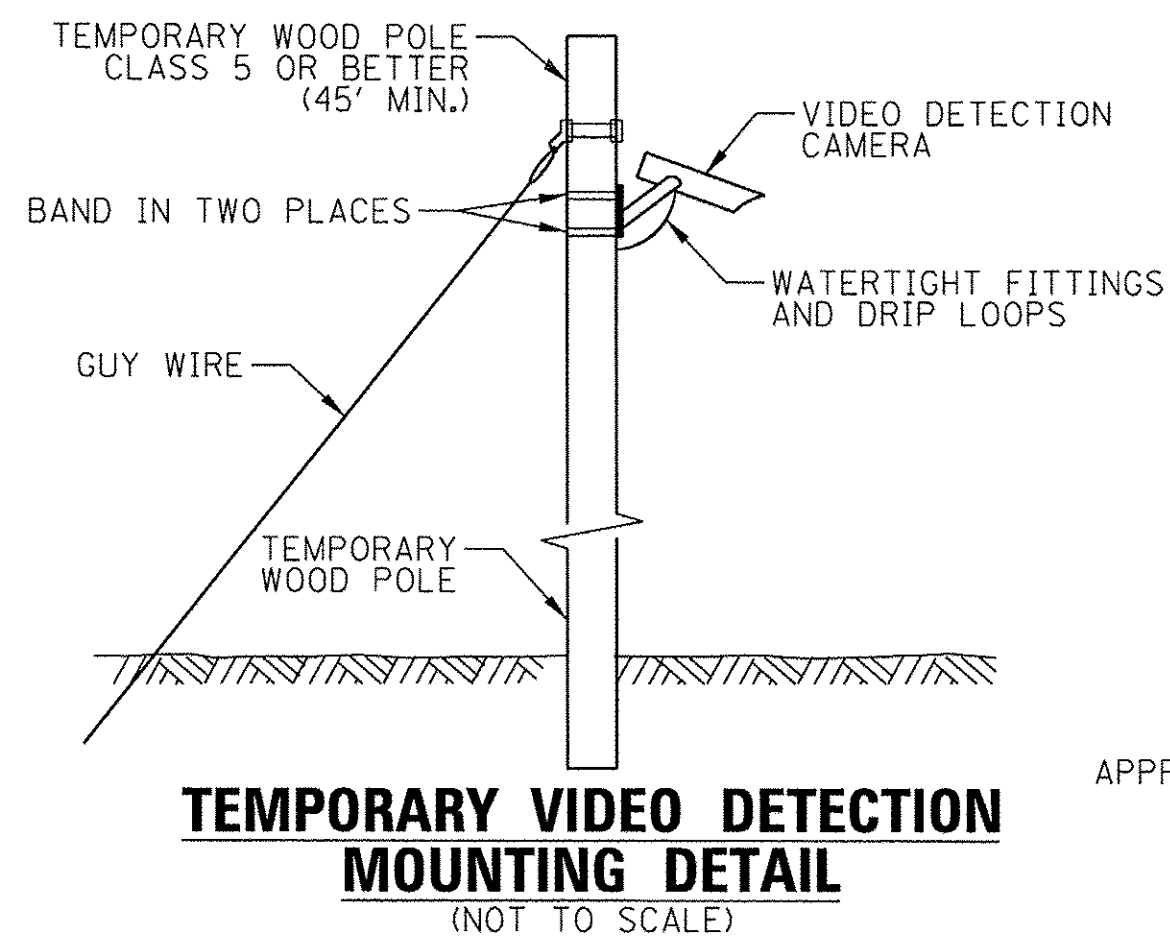
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 19 EACH SIGNAL HEAD
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 6 EACH TRAFFIC SIGNAL POST
- 2 EACH STEEL MAST ARM ASSEMBLY & POLE
- 2 EACH STEEL COMBINATION MAST ARM ASSEMBLY & POLE
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 1 EACH ELECTRICAL SERVICE INSTALLATION

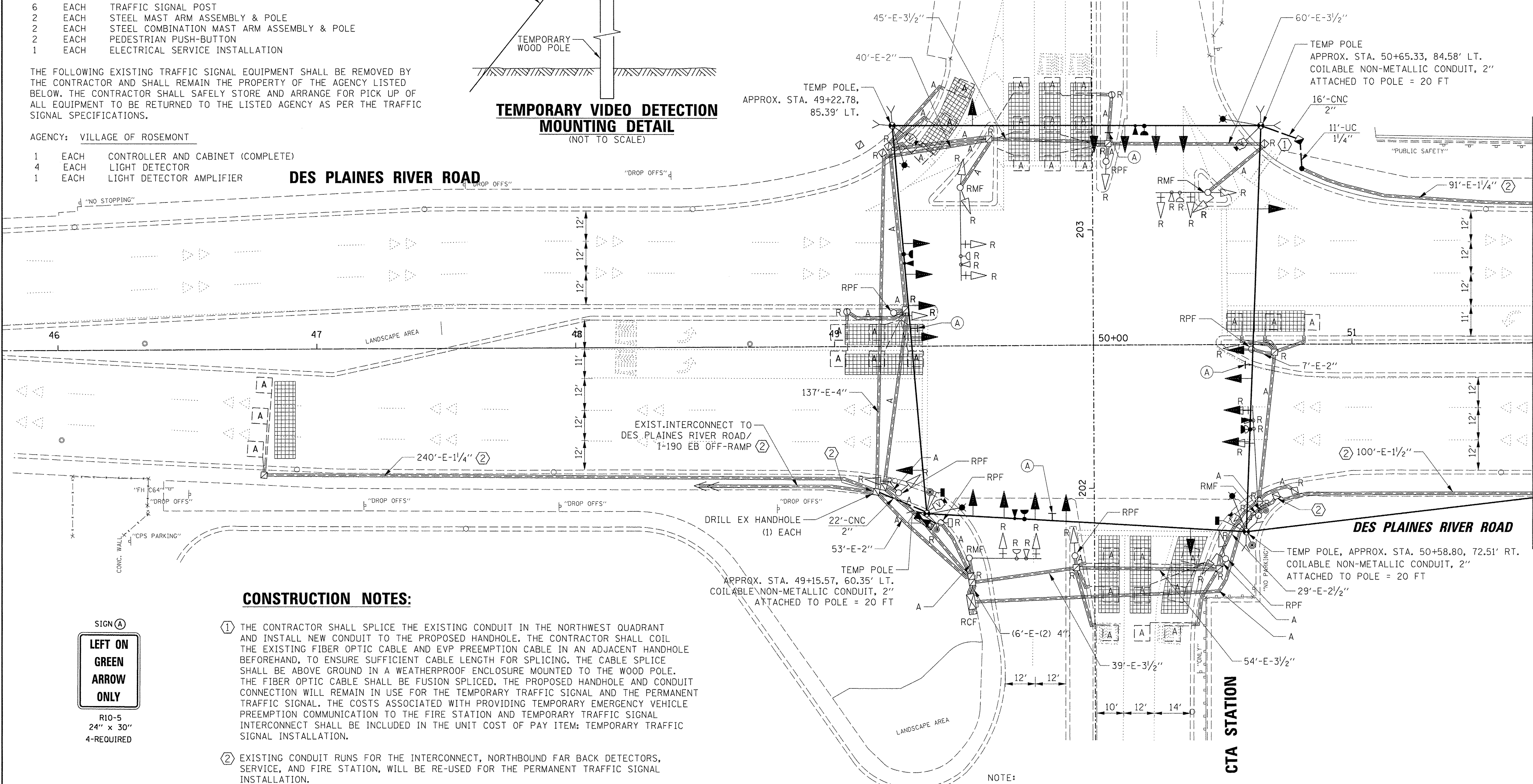
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF ROSEMONT

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 4 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



**DES PLAINES RIVER ROAD**



**CONSTRUCTION NOTES:**

- ① THE CONTRACTOR SHALL SPLICE THE EXISTING CONDUIT IN THE NORTHWEST QUADRANT AND INSTALL NEW CONDUIT TO THE PROPOSED HANDHOLE. THE CONTRACTOR SHALL COIL THE EXISTING FIBER OPTIC CABLE AND EVP PREEMPTION CABLE IN AN ADJACENT HANDHOLE BEFOREHAND, TO ENSURE SUFFICIENT CABLE LENGTH FOR SPLICING. THE CABLE SPLICE SHALL BE ABOVE GROUND IN A WEATHERPROOF ENCLOSURE MOUNTED TO THE WOOD POLE. THE FIBER OPTIC CABLE SHALL BE FUSION SPLICED. THE PROPOSED HANDHOLE AND CONDUIT CONNECTION WILL REMAIN IN USE FOR THE TEMPORARY TRAFFIC SIGNAL AND THE PERMANENT TRAFFIC SIGNAL. THE COSTS ASSOCIATED WITH PROVIDING TEMPORARY EMERGENCY VEHICLE PREEMPTION COMMUNICATION TO THE FIRE STATION AND TEMPORARY TRAFFIC SIGNAL INTERCONNECT SHALL BE INCLUDED IN THE UNIT COST OF PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- ② EXISTING CONDUIT RUNS FOR THE INTERCONNECT, NORTHBOUND FAR BACK DETECTORS, SERVICE, AND FIRE STATION, WILL BE RE-USED FOR THE PERMANENT TRAFFIC SIGNAL INSTALLATION.



R10-5  
24" x 30"  
4-REQUIRED

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = N:\ROSEMONT\12012\Traffic\CTS-019_TMP_Cts_01.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED - -
PLLOT SCALE = 20'	CHECKED - GMZ	DRAWN - FPB	REVISED - -
PLLOT DATE = 11/4/2016	DATE - -	CHECKED - -	REVISED - -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT - (SHEET 1 OF 2) DES PLAINES RIVER ROAD AT CTA STATION /I-190 WB RAMP			
SCALE: 1" = 20'	SHEET NO.    OF    SHEETS	STA.                 TO STA.	

F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 29
CONTRACT NO. 61D25			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)	

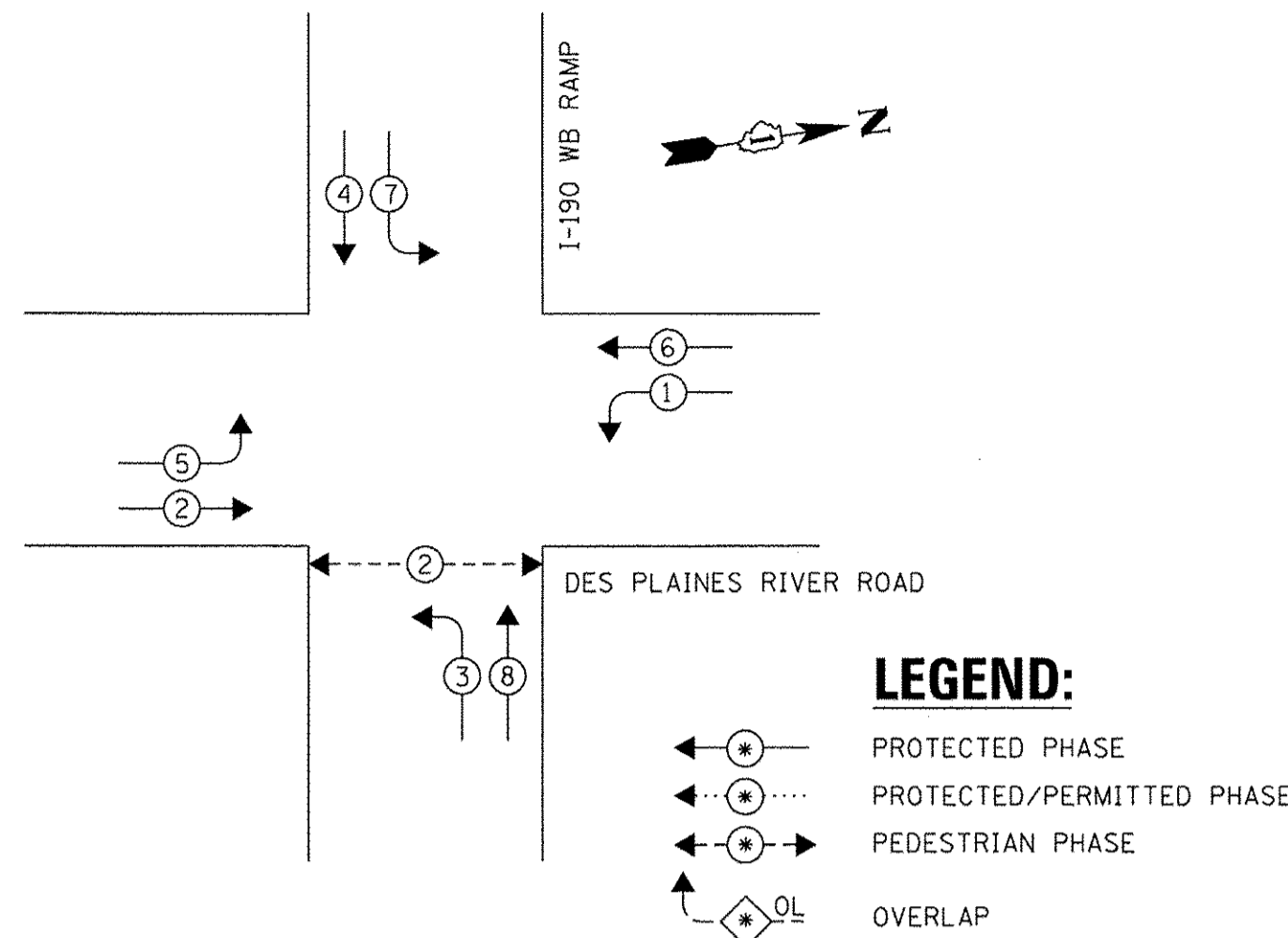
TS # 11215  
ECON # 34



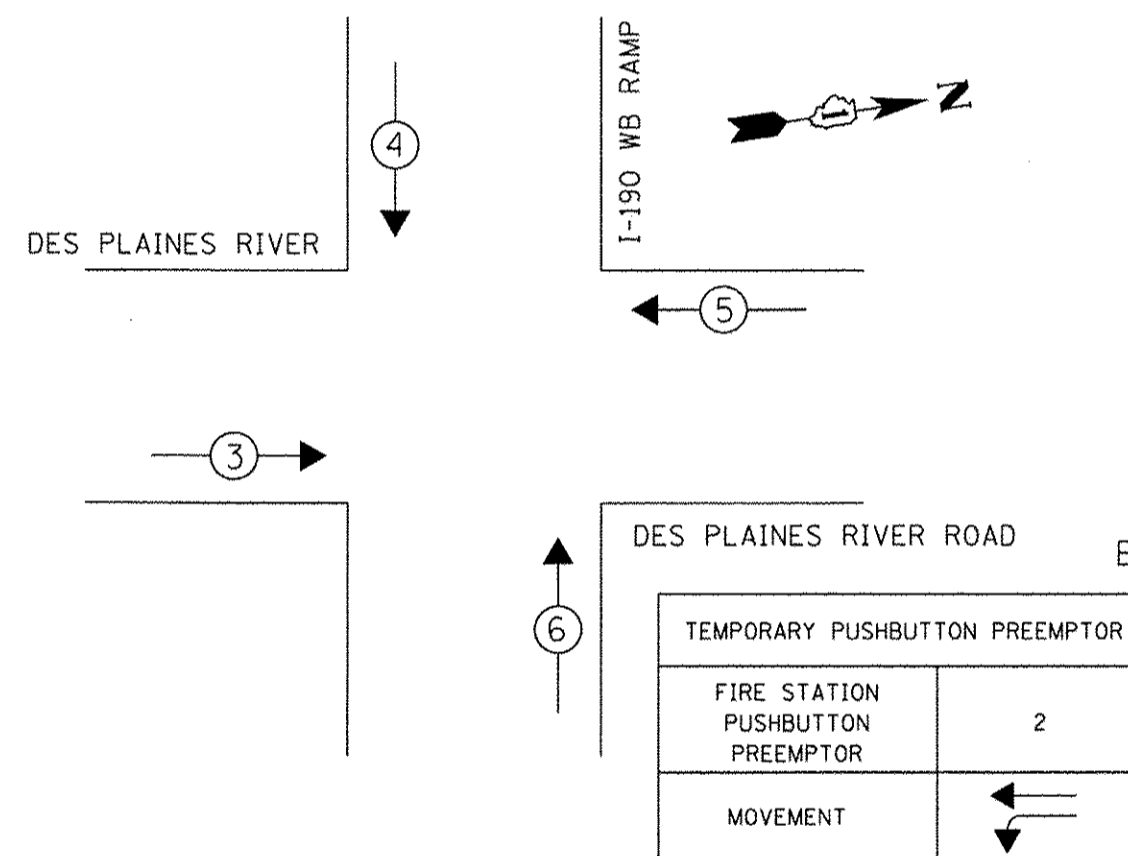
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 REVISIONS: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_ GRADES CHECKED \_\_\_\_\_  
 PLAN: \_\_\_\_\_ ALIGNMENT CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_ NOTE BOOK \_\_\_\_\_  
 CHANGECHECK \_\_\_\_\_  
 CAD FILE NAME \_\_\_\_\_  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISIONS: \_\_\_\_\_  
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 CHANGECHECK \_\_\_\_\_  
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 PROFILE: \_\_\_\_\_ GRADES CHECKED \_\_\_\_\_  
 PLAN: \_\_\_\_\_ ALIGNMENT CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_ NOTE BOOK \_\_\_\_\_  
 CHANGECHECK \_\_\_\_\_  
 CAD FILE NAME \_\_\_\_\_

**TS SHT NO. 11**  
 CHRISTOPHER B. BURKE  
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 4321 West 91st Street  
 Rosemont, Illinois 60018  
 (847) 823-0500  
**CB**  
**EB**

**TEMPORARY CONTROLLER SEQUENCE**



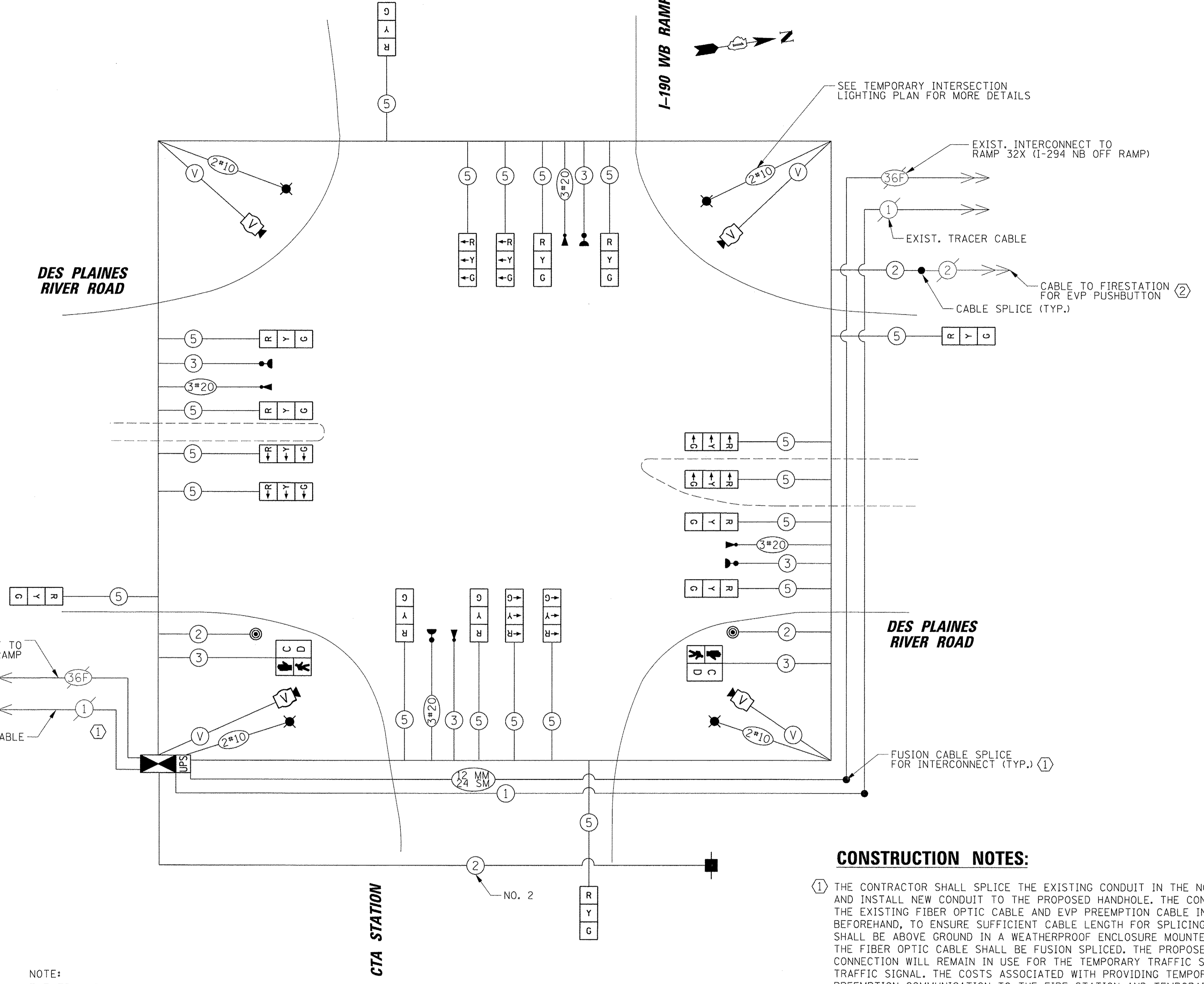
**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	2	20	100	40.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	400	50	800.0
ENERGY COSTS TO:			TOTAL =	1353.0

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 201 W CENTER COURT  
 SCHAMBURG, IL 60196  
 ENERGY SUPPLY: CONTACT: NEW BUSINESS  
 PHONE: (866) 639-3532  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---



**TEMPORARY CABLE PLAN**  
 (NOT TO SCALE)

NOTE:  
 THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**CONSTRUCTION NOTES:**

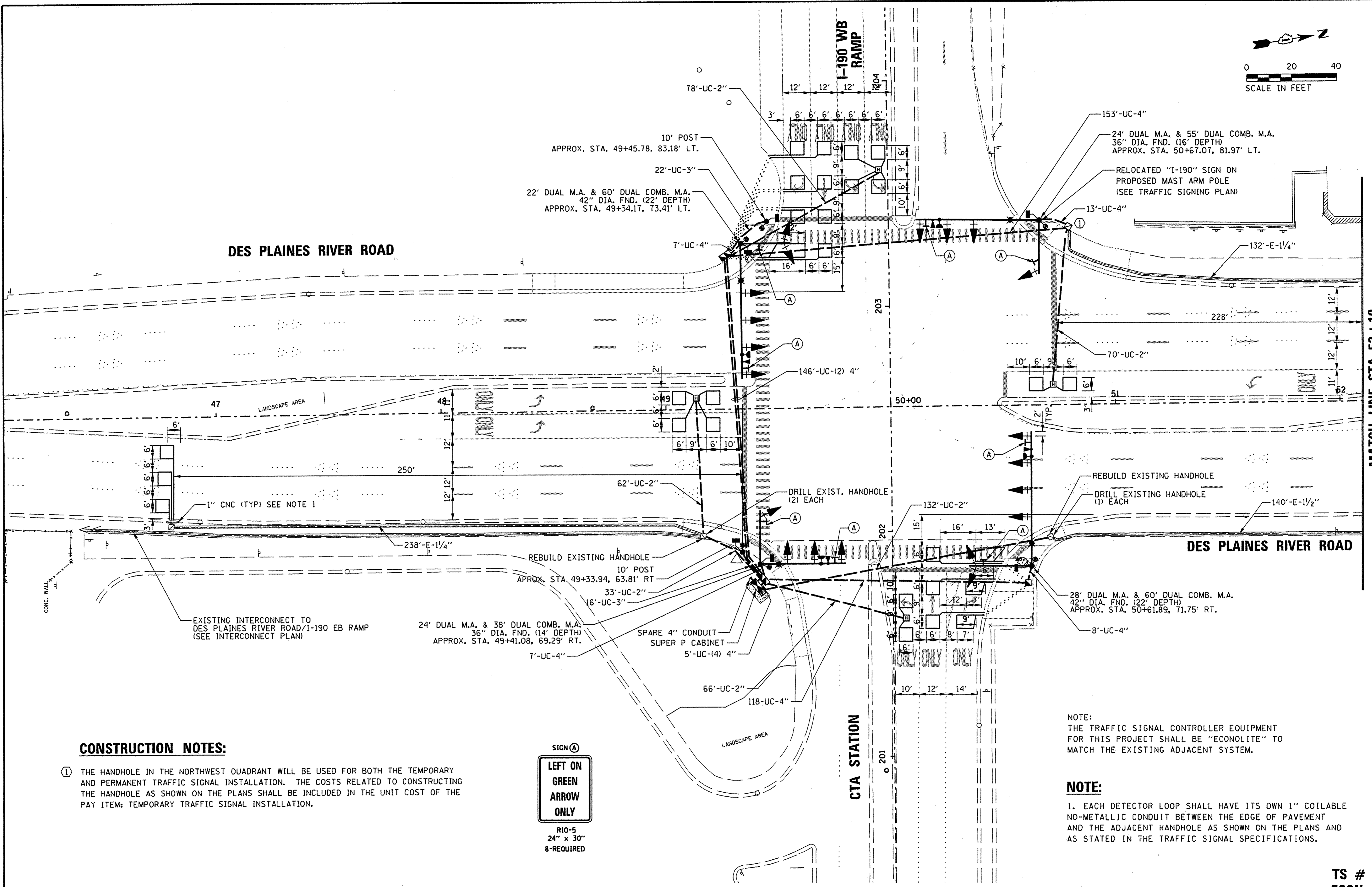
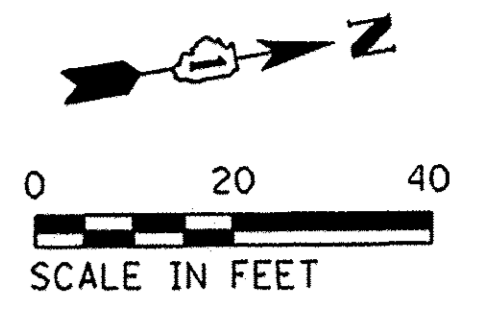
- ① THE CONTRACTOR SHALL SPLICE THE EXISTING CONDUIT IN THE NORTHWEST QUADRANT AND INSTALL NEW CONDUIT TO THE PROPOSED HANDHOLE. THE CONTRACTOR SHALL COIL THE EXISTING FIBER OPTIC CABLE AND EVP PREEMPTION CABLE IN AN ADJACENT HANDHOLE BEFOREHAND, TO ENSURE SUFFICIENT CABLE LENGTH FOR SPLICING. THE CABLE SPLICE SHALL BE ABOVE GROUND IN A WEATHERPROOF ENCLOSURE MOUNTED TO THE WOOD POLE. THE FIBER OPTIC CABLE SHALL BE FUSION SPLICED. THE PROPOSED HANDHOLE AND CONDUIT CONNECTION WILL REMAIN IN USE FOR THE TEMPORARY TRAFFIC SIGNAL AND THE PERMANENT TRAFFIC SIGNAL. THE COSTS ASSOCIATED WITH PROVIDING TEMPORARY EMERGENCY VEHICLE PREEMPTION COMMUNICATION TO THE FIRE STATION AND TEMPORARY TRAFFIC SIGNAL INTERCONNECT SHALL BE INCLUDED IN THE UNIT COST OF PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- ② EXISTING CONDUIT RUNS FOR THE INTERCONNECT, NORTHBOUND FAR BACK DETECTORS, SERVICE, AND FIRE STATION, WILL BE RE-USED FOR THE PERMANENT TRAFFIC SIGNAL INSTALLATION.

**TS # 11215**  
**ECON # 34**

DATE	BY	SURVEYED	ALIGNED	CHECKED	RT. OF WAY	CHECKED	CAUTION	FILE NAME
DATE	BY	PROFILE	PLOTTED	CHECKED	BLK. NOTED	STRUCTURE	NOTATIONS	CHKD

TS SHT NO. 12

**CHRISTOPHER P. BURKE**  
ENGINEERING LTD.  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(617) 823-5500



**CONSTRUCTION NOTES:**

① THE HANDHOLE IN THE NORTHWEST QUADRANT WILL BE USED FOR BOTH THE TEMPORARY AND PERMANENT TRAFFIC SIGNAL INSTALLATION. THE COSTS RELATED TO CONSTRUCTING THE HANDHOLE AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE UNIT COST OF THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:  
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NO-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS # 11215  
ECON # 34

FILE NAME = N:\ROSEMONT\12012\Traffic\TS-022.TSD.ctb	USER NAME = ejanson	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 1 OF 2)</b>			F.A.U. RTE. = 8522	SECTION = 13-00032-00-TL	COUNTY = COOK	TOTAL SHEETS = 61	SHEET NO. = 32
PLOT SCALE = 48'	CHECKED - GMZ	REVISED -	REVISED -		<b>DES PLAINES RIVER ROAD AT CTA STATION /I-190 WB RAMP</b>			CONTRACT NO. 61025				
PLOT DATE = 11/30/2016	DATE -	REVISED -	REVISED -		SCALE: 1" = 40'			SHEET NO. OF SHEETS		STA. TO STA.		
					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-40031677							

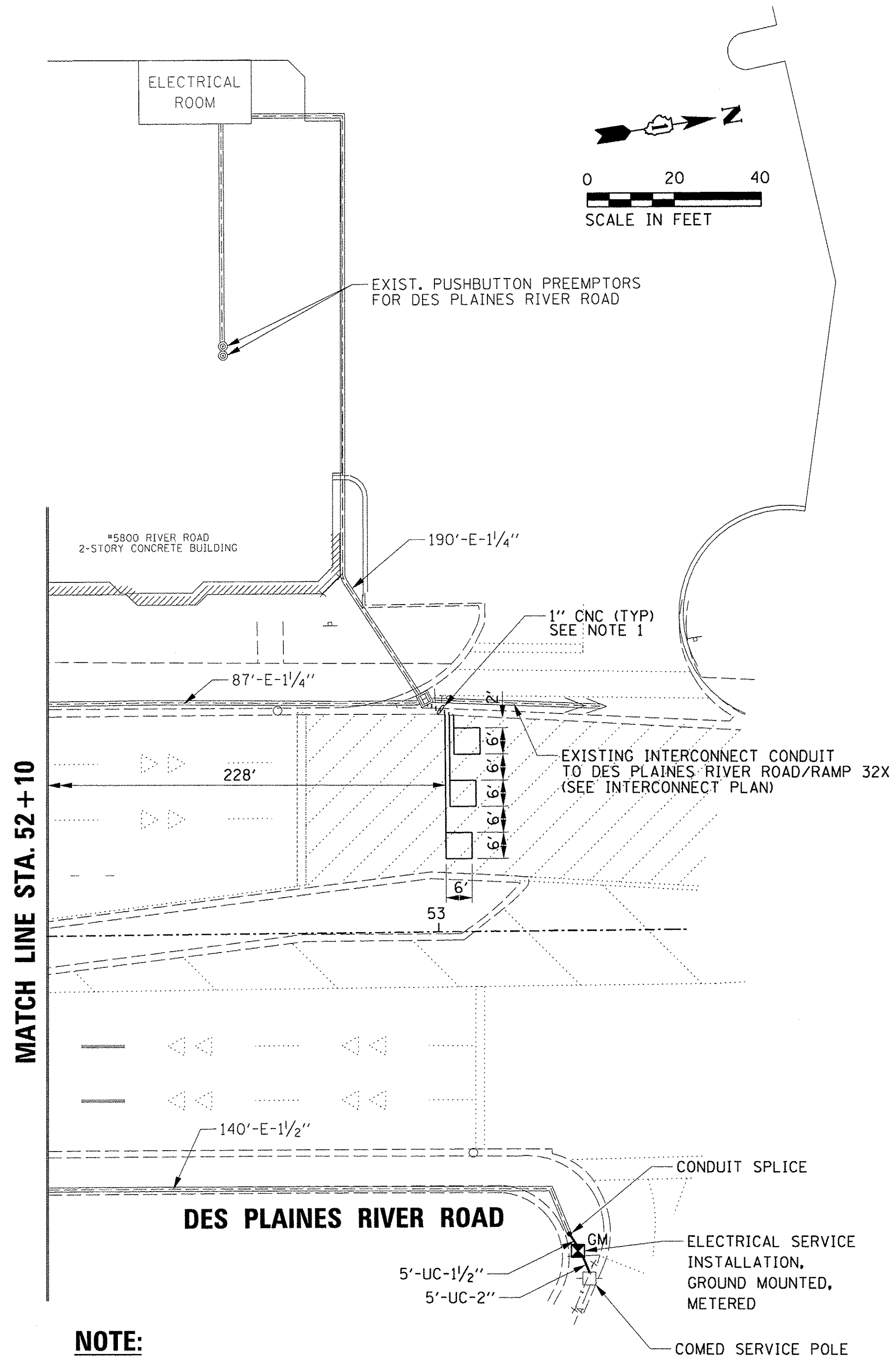


PROFILE	DATE	BY
GRADES CHECKED		
NOTES CHECKED		
STRUCTURE NOTATIONS CHECKED		
NO.		
PLAN	DATE	BY
NOTE BOOK		
NO.		
REVISIONS	DATE	BY
ALIGNED CHECKED		
PLOTTED		
CADD FILE NAME		

**CHRISTOPHER B. BURKE**  
 ENGINEERING LTD.  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

PROFILE	DATE	BY
GRADES CHECKED		
NOTES CHECKED		
STRUCTURE NOTATIONS CHECKED		
NO.		

TS SHT NO. 13



**NOTE:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NO-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS # 11215  
 ECON # 34

FILE NAME = N:\ROSEMONT\12012\Traffic\TS-023.TSD.Ctbl_02.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 2) DES PLAINES RIVER ROAD AT CTA STATION /I-190 WB RAMP</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 20'	CHECKED - GMZ	REVISED -	REVISED -			8522	13-00032-00-TL	COOK	61	33	
PLOT DATE = 11/4/2016	DATE -	REVISED -	REVISED -			CONTRACT NO. 61D25		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)			
						SCALE: 1" = 20'	SHEET NO.	OF	SHEETS	STA.	TO STA.

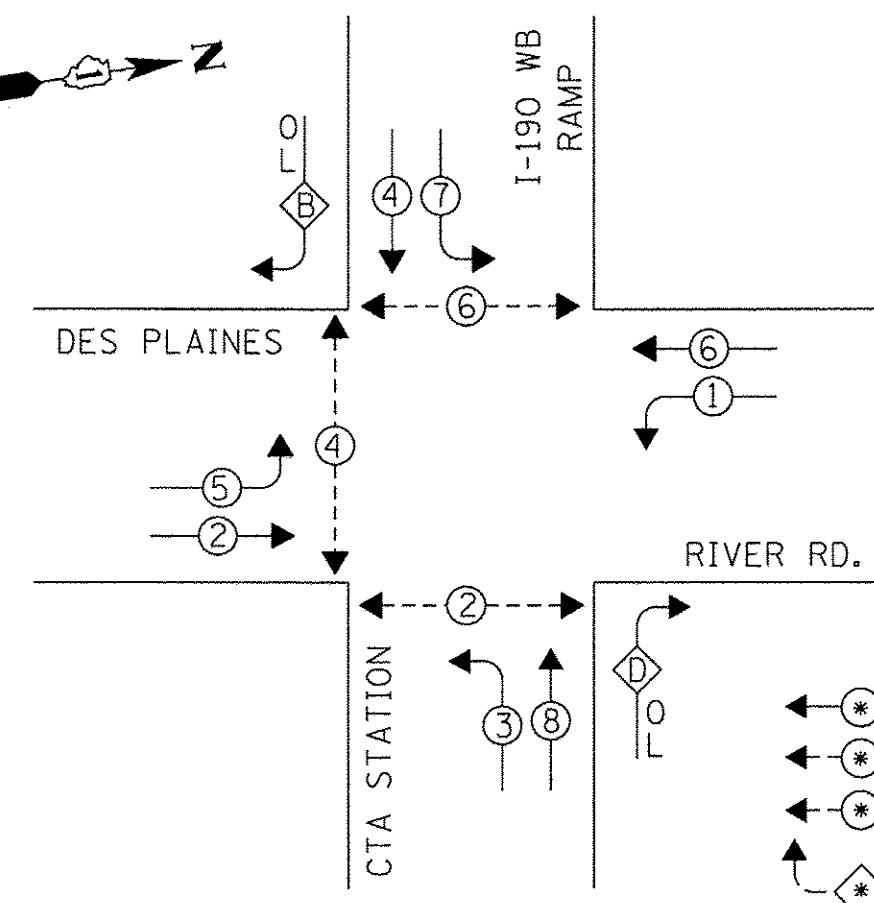
DATE  
BY  
REVISIONS  
PLANNING CHECKED  
ALIGNMENT CHECKED  
NOTE BOOK NO.  
CADD FILE NAME

ENGINEERING LTD.  
CHRISTOPHER B. BURKE  
6555 North Lincoln, Suite 600  
Rosemont Illinois 60018  
(847) 822-0800

DATE  
BY  
REVISIONS  
GRADES CHECKED  
ELECTRICAL CHECKED  
STRUCTURE NOTATIONS CHECKED  
NOTE BOOK NO.

TS SHT NO. 14

**PROPOSED CONTROLLER SEQUENCE**



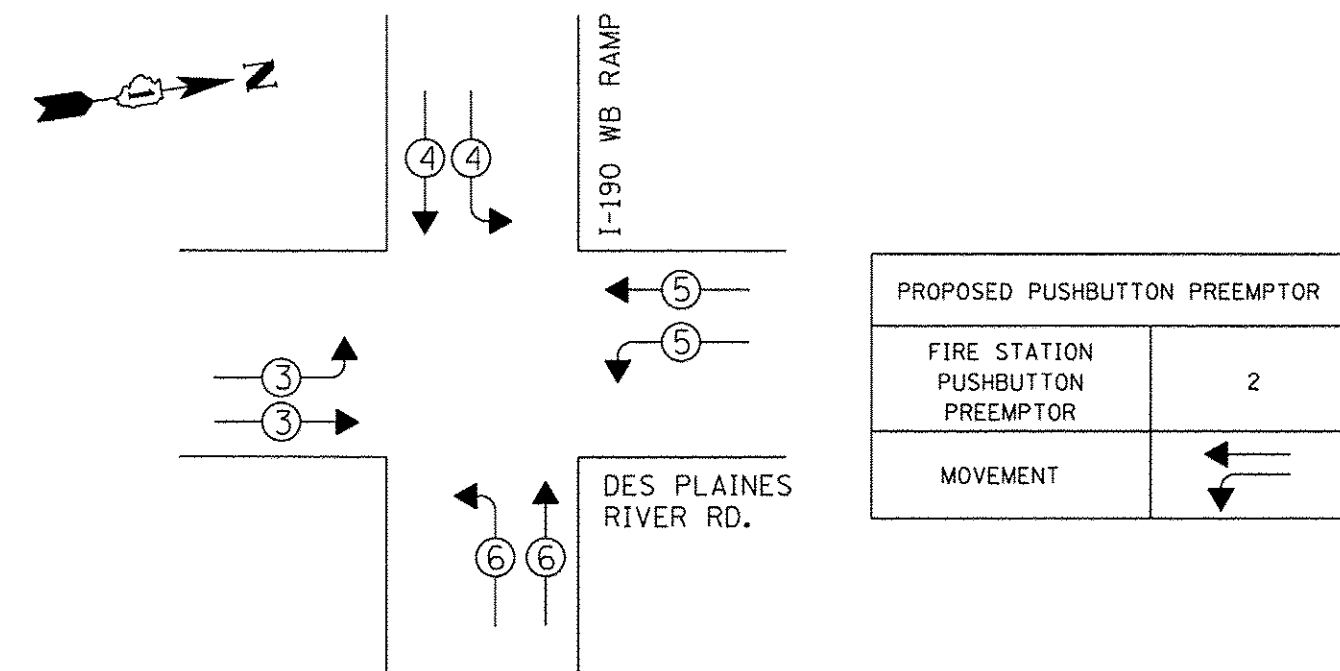
**LEGEND:**

- (with dot) PROTECTED PHASE
- (with star) PROTECTED/PERMITTED PHASE
- (with triangle) PEDESTRIAN PHASE
- (with cross) OVERLAP

**RIGHT TURN OVERLAP  
PHASE DESIGNATION**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B =	4	5
D =	8	1

**PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



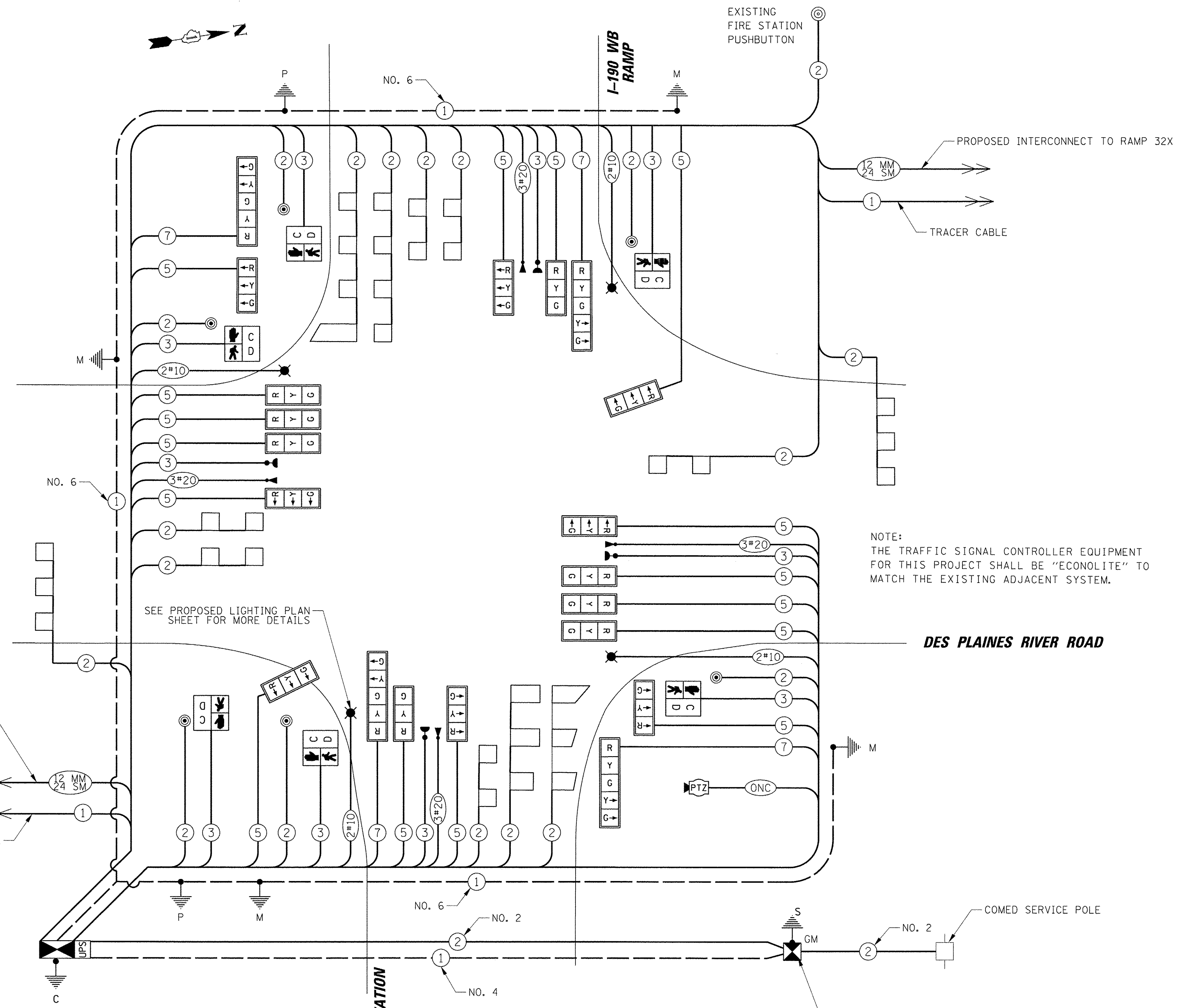
**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	11	50	110.0
(YELLOW)	20	20	5	20.0
(GREEN)	20	12	45	108.0
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	4	400	50	800.0
ENERGY COSTS TO:			TOTAL =	1441.0

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096  
ENERGY SUPPLY: CONTACT: NEW BUSINESS  
PHONE: (630) 437-2129  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

**CONSTRUCTION NOTES:**

- ① THE HANDHOLE IN THE NORTHWEST QUADRANT WILL BE USED FOR BOTH THE TEMPORARY AND PERMANENT TRAFFIC SIGNAL INSTALLATION. THE COSTS RELATED TO CONSTRUCTING THE HANDHOLE AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE UNIT COST OF THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.



NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
DES PLAINES RIVER ROAD AT I-190 WB RAMP /CTA STATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	34
CONTRACT NO. 61D25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)				

TS # 11215  
ECON # 34

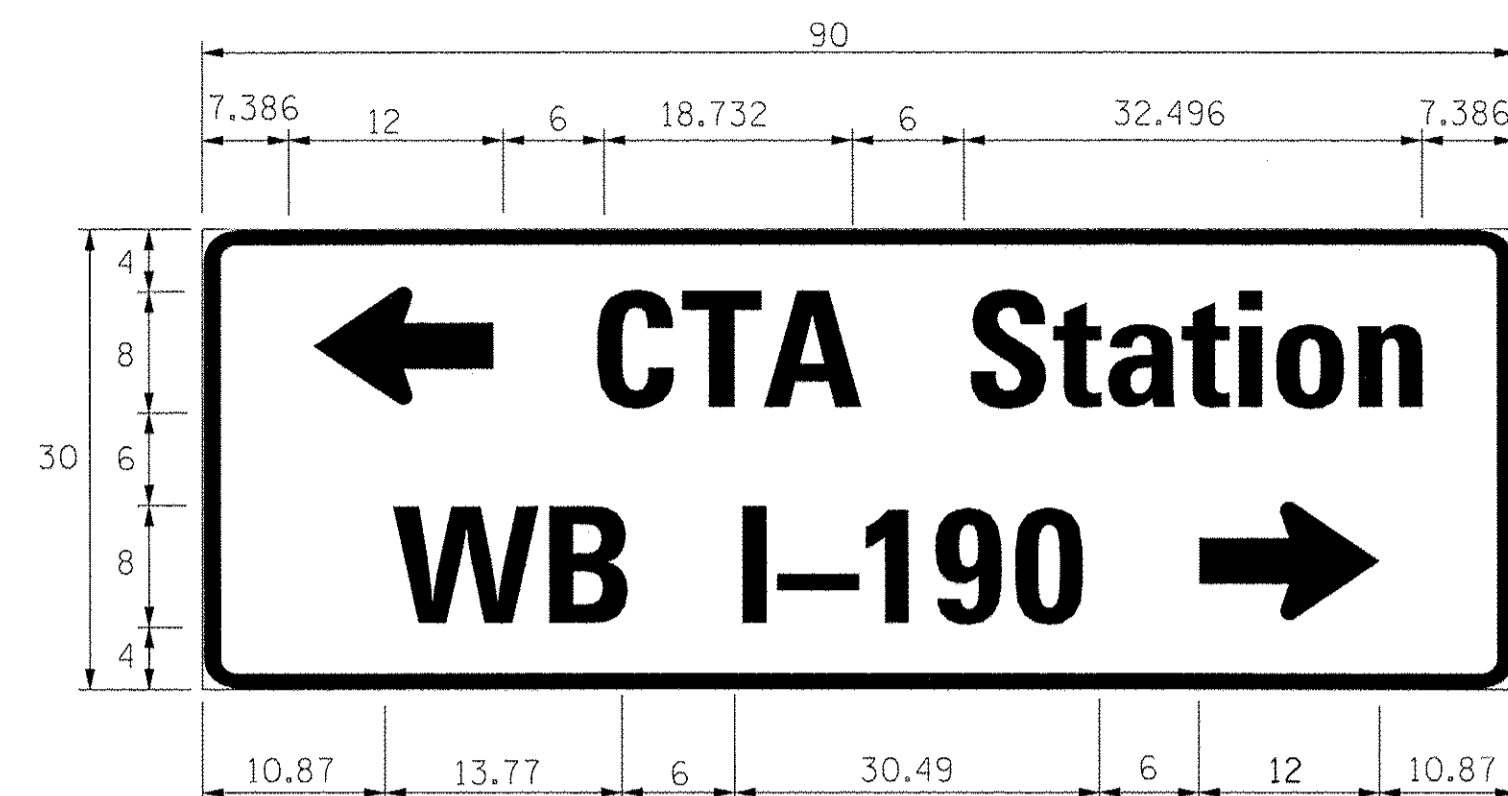
FILE NAME = N:\ROSEMONT\12012\Traffic\TS-024-CAB.ctb  
USER NAME = ejensen  
DESIGNED - EAJ  
DRAWN - FPB  
CHECKED - GMZ  
DATE -

REVISIONS  
REVISED -  
REVISED -  
REVISED -  
REVISED -

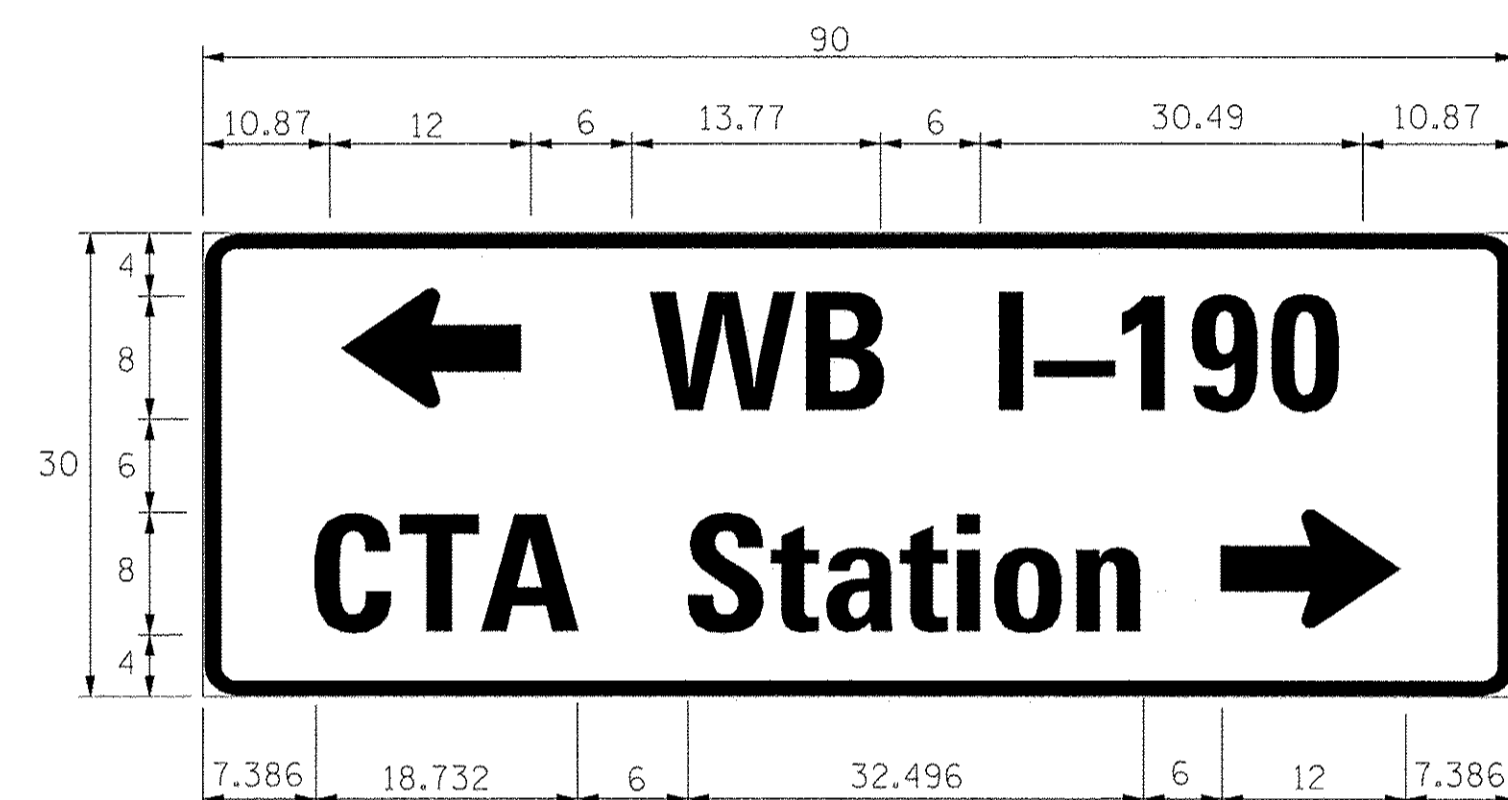
SCALE: 1" = 20'  
SHEET NO. OF SHEETS STA. TO STA.

**MAST ARM MOUNTED STREET NAME SIGNS**

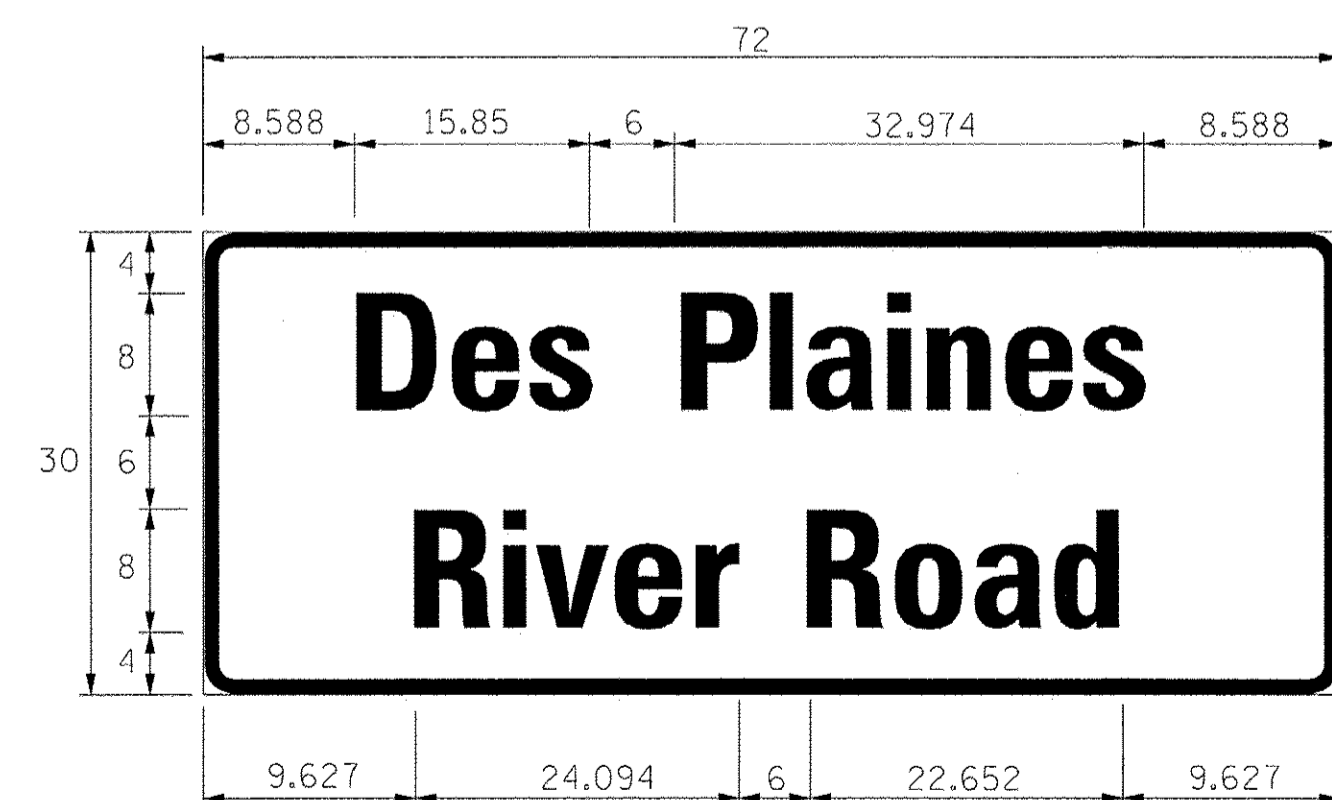
**SIGN PANEL - TYPE 2**



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	18.75	2	ZZ	1



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	18.75	2	ZZ	1



DESIGN SERIES	AREA (SQ. FT.)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	15.0	2	ZZ	2

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	68
UNDERGROUND CONDUIT, GALVANIZED STEEL, 1 1/2" DIA.	FOOT	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	446
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	38
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	623
HANDHOLE	EACH	1
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1738
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2076
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3806
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	896
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2836
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 2 2 C	FOOT	493
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	655
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 22 FT. AND 60 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 55 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 38 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 60 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	44
DRILL EXISTING HANDHOLE	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1180
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	612
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
REMOVE EXISTING HANDHOLE	EACH	16
REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
ETHERNET MANAGE SWITCH	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1008
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	200
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
CONDUIT SPLICE	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 4 1C	FOOT	480

DATE	BY	DATE	BY
REVIEWED	PLANNED	REVIEWED	PLANNED
GRADES CHECKED	NOTES CHECKED	GRADES CHECKED	NOTES CHECKED
STRUCTURE	NOTATIONS	STRUCTURE	NOTATIONS
NO.	NO.	NO.	NO.

**CHRISTOPHER B. BURKE**  
ENGINEERING LTD.  
8575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0600

**TS SHT NO. 15**

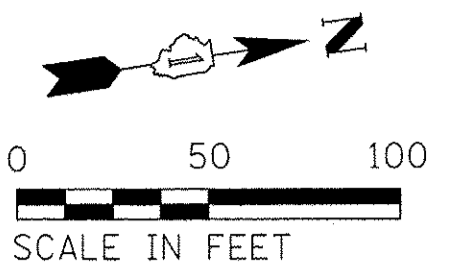
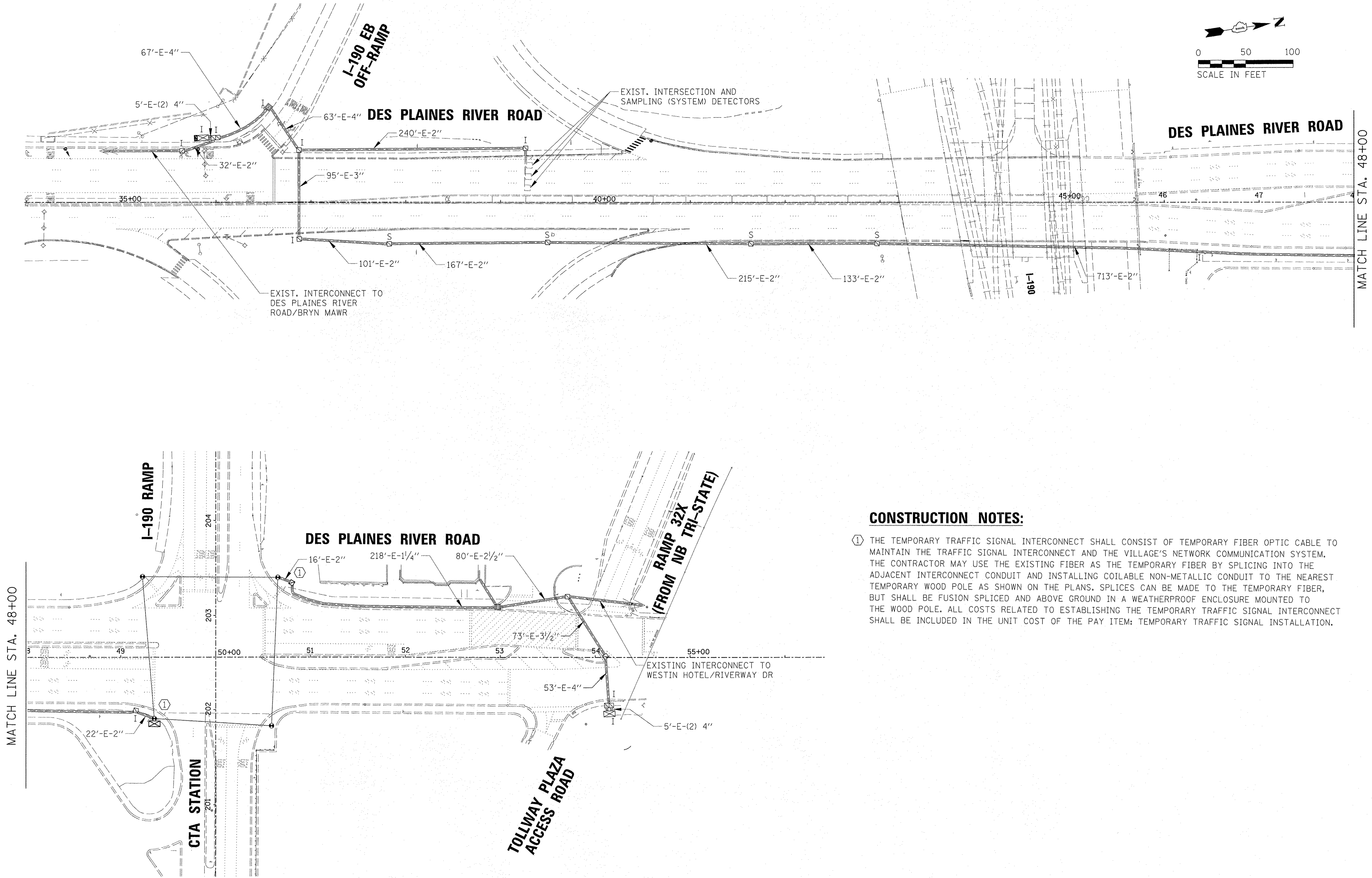
**TS # 11215  
ECON # 34**

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES AND MAST ARM MOUNTED STREET NAME SIGNS DES PLAINES RIVER ROAD AT I-190 WB RAMP /CTA STATION</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\ROSEMONT\12012\Tr-office\TS-025.DAB-Cb-02.dgn		DRAWN - FPB	REVISED -		8522	13-00032-00-TL	COOK	61	35				
PLOT SCALE = 20'		CHECKED - GMZ	REVISED -		CONTRACT NO. 61D25								
PLOT DATE = 11/4/2016		DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)								

PROFILE SURVEYED \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 BY \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATION CHKD  
 PLAN SURVEYED \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 BY \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 ROADWAY CHECKED  
 CADD FILE NAME

TS SHT NO. 16

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 Rosemont, Illinois 60018  
 (847) 823-0600



**CONSTRUCTION NOTES:**

- ① THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT SHALL CONSIST OF TEMPORARY FIBER OPTIC CABLE TO MAINTAIN THE TRAFFIC SIGNAL INTERCONNECT AND THE VILLAGE'S NETWORK COMMUNICATION SYSTEM. THE CONTRACTOR MAY USE THE EXISTING FIBER AS THE TEMPORARY FIBER BY SPLICING INTO THE ADJACENT INTERCONNECT CONDUIT AND INSTALLING COILABLE NON-METALLIC CONDUIT TO THE NEAREST TEMPORARY WOOD POLE AS SHOWN ON THE PLANS. SPLICES CAN BE MADE TO THE TEMPORARY FIBER, BUT SHALL BE FUSION SPLICED AND ABOVE GROUND IN A WEATHERPROOF ENCLOSURE MOUNTED TO THE WOOD POLE. ALL COSTS RELATED TO ESTABLISHING THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT SHALL BE INCLUDED IN THE UNIT COST OF THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

ECON # 34

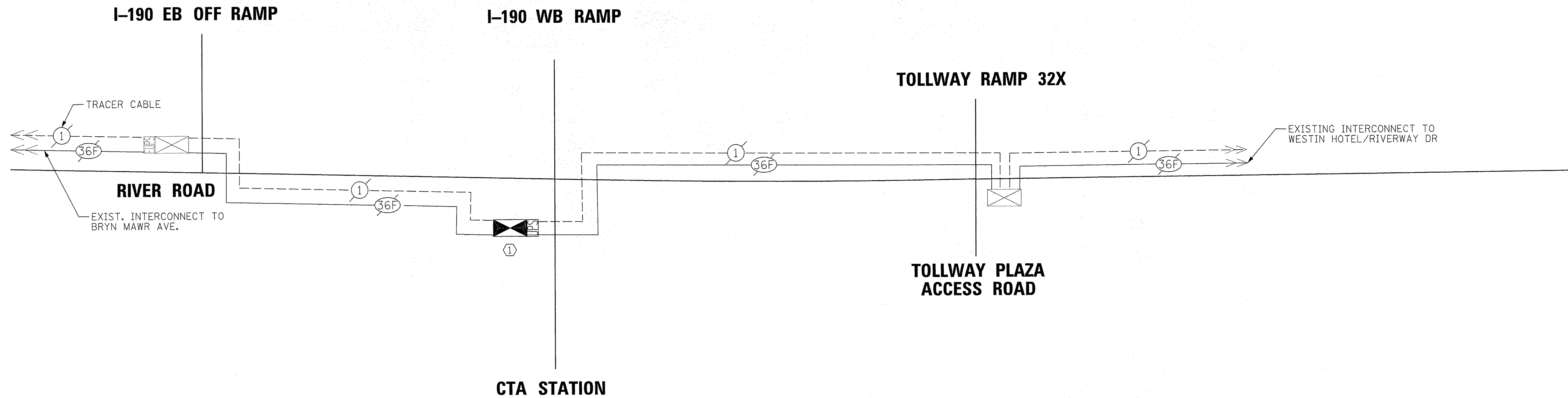
FILE NAME = N:\ROSEMONT\120121\T-off\ts\15-026_INT-1\m_RiverRd.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>TEMPORARY INTERCONNECT PLAN DES PLAINES RIVER FROM I-190 EB OFF-RAMP TO IL. ROUTE 72 (HIGGINS ROAD)</b>		F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 36
PLLOT SCALE = 5/8"	CHECKED - GMZ	REVISED -	REVISED -					CONTRACT NO. 61D25				
PLLOT DATE = 10/17/2016	DATE -	REVISED -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)				
								SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE NOTATIONS	CHKD
PLAN	REVISED	DATE
NOTE BOOK	ALIGNMENT CHECKED	BY
NO.	CAD FILE NAME	CHKD

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 Rosemont, IL 60018  
 (847) 823-0500



TS SHT NO. 17



**CONSTRUCTION NOTES:**

- ① THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT SHALL CONSIST OF TEMPORARY FIBER OPTIC CABLE TO MAINTAIN THE TRAFFIC SIGNAL INTERCONNECT AND THE VILLAGE'S NETWORK COMMUNICATION SYSTEM. THE CONTRACTOR MAY USE THE EXISTING FIBER AS THE TEMPORARY FIBER BY SPLICING INTO THE ADJACENT INTERCONNECT CONDUIT AND INSTALLING COILABLE NON-METALLIC CONDUIT TO THE NEAREST TEMPORARY WOOD POLE AS SHOWN ON THE PLANS. SPLICES CAN BE MADE TO THE TEMPORARY FIBER, BUT SHALL BE FUSION SPLICED AND ABOVE GROUND IN A WEATHERPROOF ENCLOSURE MOUNTED TO THE WOOD POLE. ALL COSTS RELATED TO ESTABLISHING THE TEMPORARY TRAFFIC SIGNAL INTERCONNECT SHALL BE INCLUDED IN THE UNIT COST OF THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

**ECON # 34**

FILE NAME =	USER NAME = ajensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY INTERCONNECT SCHEMATIC DES PLAINES RIVER ROAD FROM I-190 EB OFF-RAMP TO RAMP 32X</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
N:\ROSEMONT\12012\Traffic\TS-027_SCH-Tmp_RiverRd.dgn		DRAWN - FPB	REVISED -			8522	13-00032-00-TL	COOK	61	37	
PLOT SCALE = 50'		CHECKED - GMZ	REVISED -			CONTRACT NO. 61D25					
PLOT DATE = 10/17/2016		DATE -	REVISED -			SCALE: 1" = 50'	SHEET NO.	OF	SHEETS	STA.	TO
						FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT : M-4003(677)					

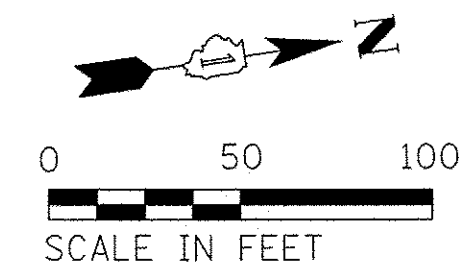
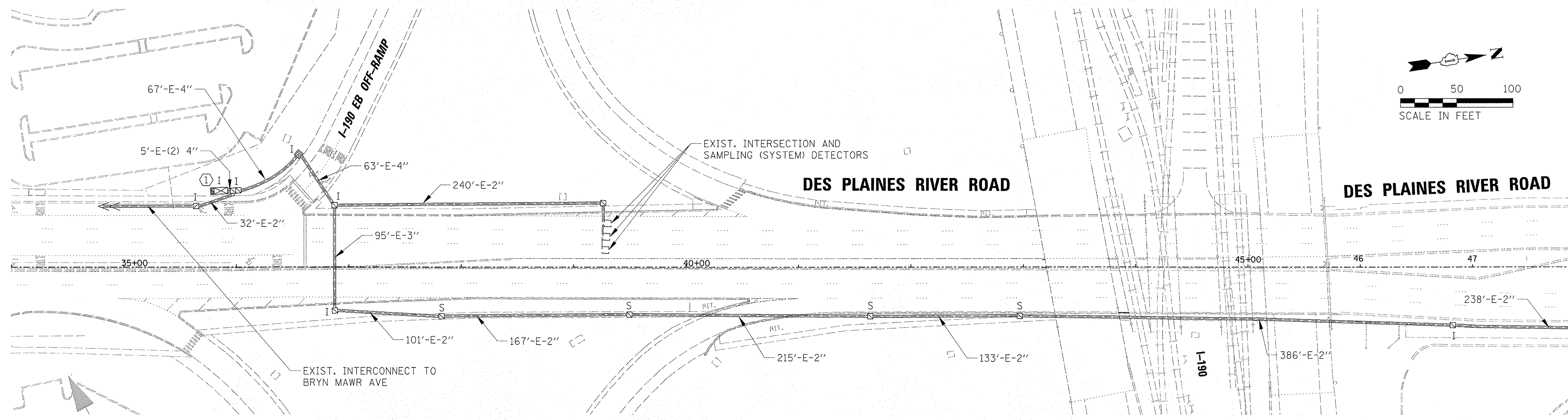
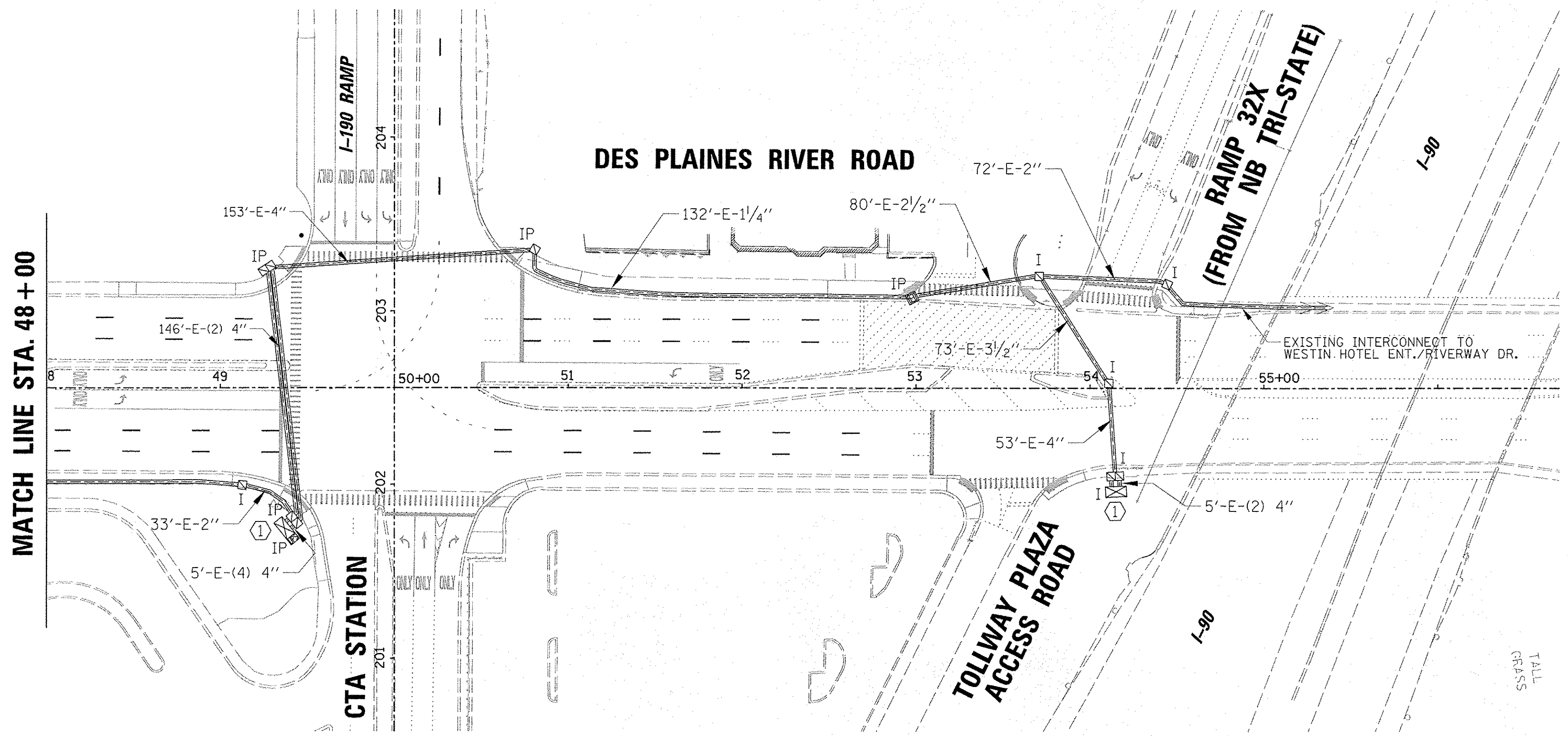
PROFILE	SURVEYED	DATE
NOTE BOOK	ROADS CHECKED	
NO.	BY	
STRUCTURE	NOTATIONS	
	DATE	
	BY	
	DATE	
	BY	
	DATE	

**CHRISTOPHER B. BURKE**  
ENGINEERING LTD.  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500



PLAN	SURVEYED	DATE
NOTE BOOK	ROADS CHECKED	
NO.	BY	
	DATE	

TS SHT NO. 18



CONSTRUCTION NOTE:

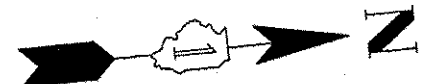
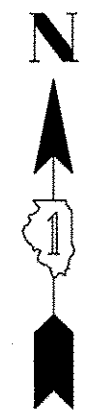
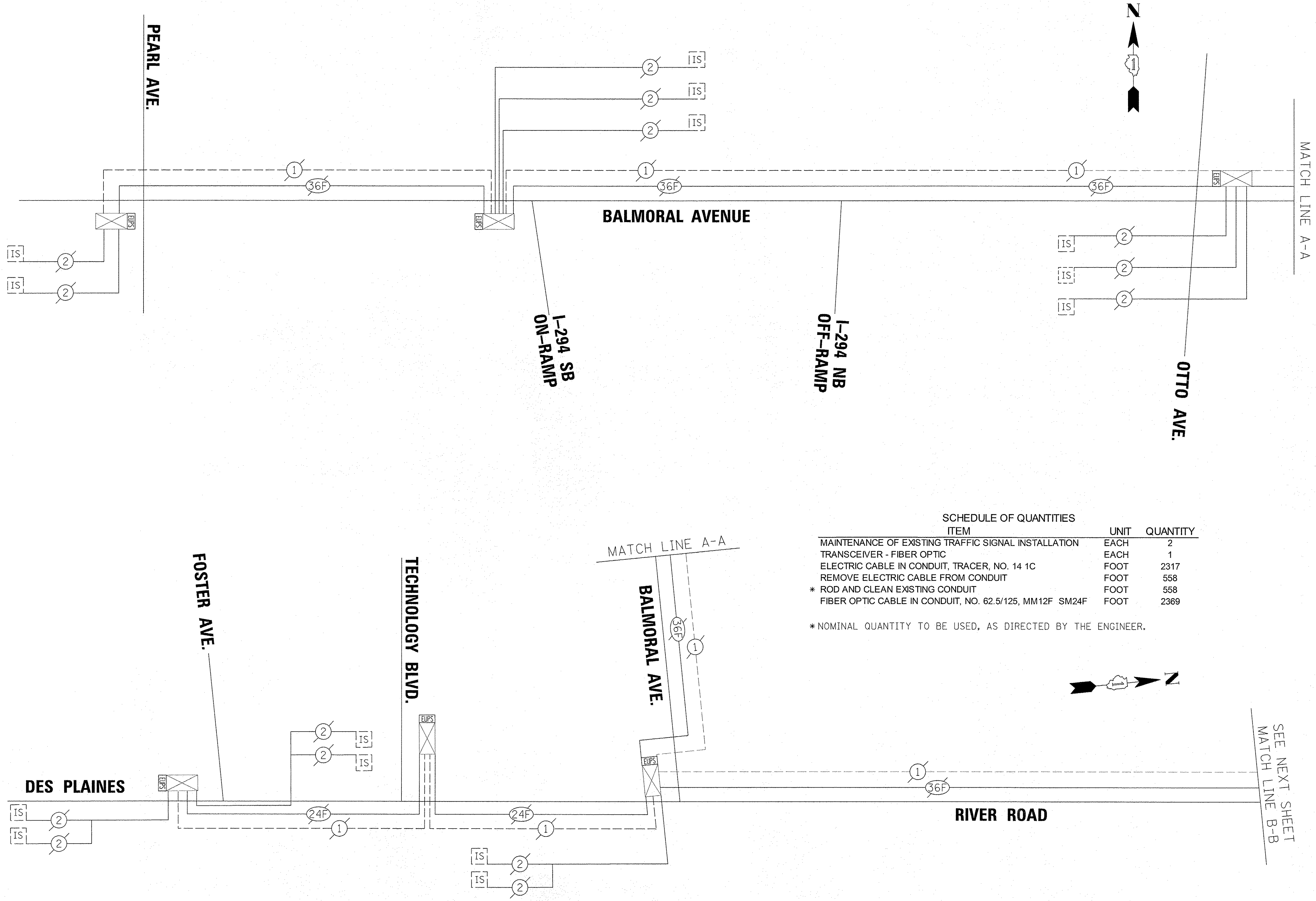
- ① THE CONTRACTOR SHALL REMOVE THE TEMPORARY FIBER OPTIC CABLE AND INSTALL NEW CONTINUOUS FIBER OPTIC CABLE FROM TRAFFIC SIGNAL CABINET TO TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL TEST THE FIBER OPTIC CABLE AND PROVIDE A WRITTEN REPORT TO THE ENGINEER, ACCORDING TO ARTICLE 801.13 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE COST OF TESTING IS INCLUDED IN THE UNIT COST OF THE FIBER OPTIC CABLE. TERMINATIONS AT THE CABINETS SHALL BE FUSION TERMINATIONS FOR 12 FIBERS.

ECON # 34

FILE NAME = N:\ROSEMONT\12012\Trf\15-028_INT_RiverRd.dgn	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERCONNECT PLAN DES PLAINES RIVER FROM I-190 EB OFF-RAMP TO IL ROUTE 72 (HIGGINS ROAD)</b>			F.A.U. RTE. = 8522	SECTION = 13-00032-00-TL	COUNTY = COOK	TOTAL SHEETS = 61	SHEET NO. = 38
PLOT SCALE = 50'	PLOT DATE = 10/17/2016	DRAWN - FPB	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 61D25		
CHECKED - GMZ	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT : M-40031677							

DATE	BY	SURVEYED	ALIGNED	CHECKED	DATE
		BY	BY	BY	
		DATE	DATE	DATE	
PLAN	NOTE BOOK	NO.			
ENGINEERING LTD.					
CHRISTOPHER B. BURKE					
8575 West Higgins Road, Suite 600					
Rosemont, Illinois 60018					
(617) 825-0500					
PROFILE	NOTE BOOK	NO.			
SURVEYED	BY	DATE			
GRADES	BY	DATE			
STRUCTURE	BY	DATE			

TS SHT NO. 19



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2317
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	558
* ROD AND CLEAN EXISTING CONDUIT	FOOT	558
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2369

\* NOMINAL QUANTITY TO BE USED, AS DIRECTED BY THE ENGINEER.

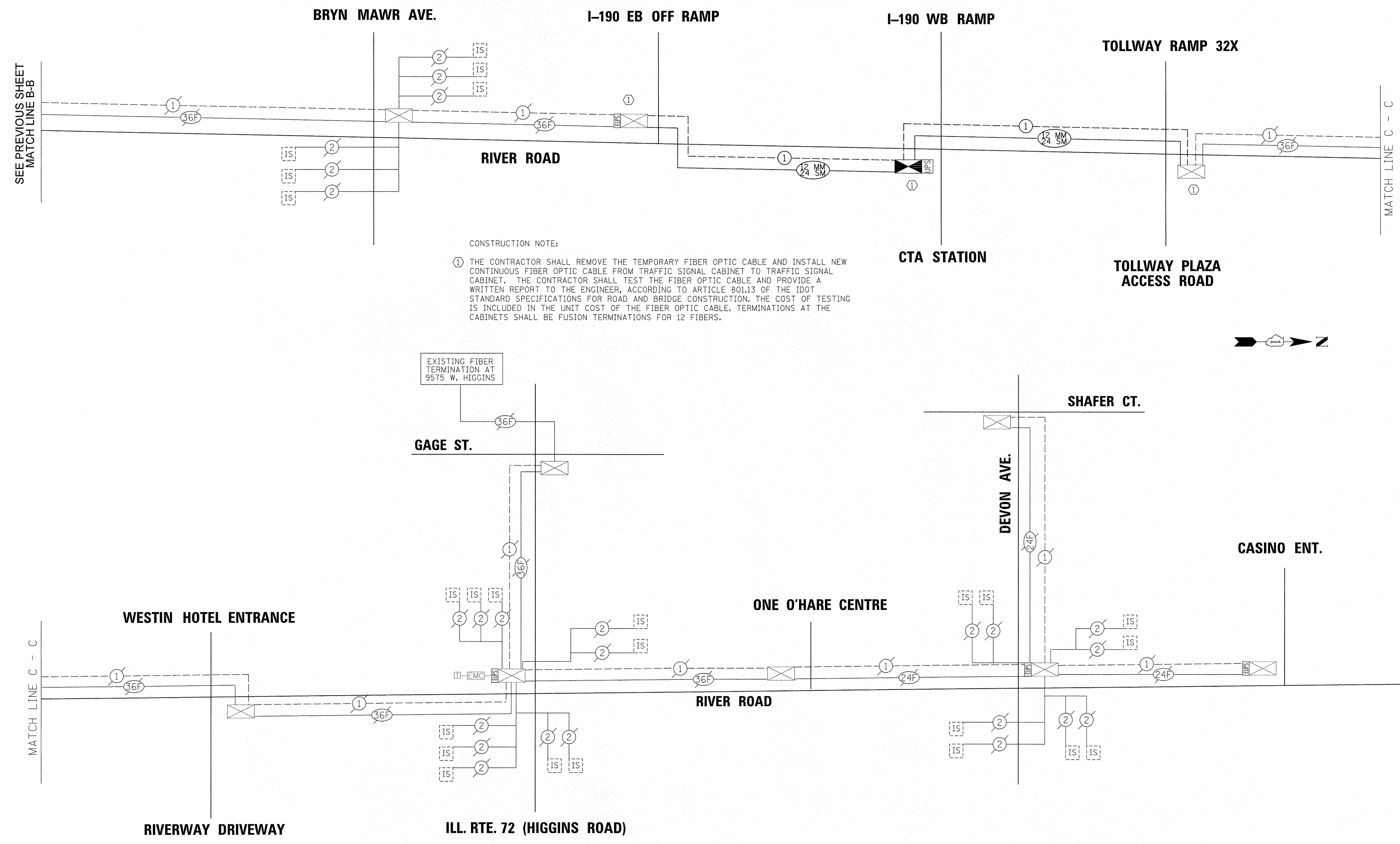
FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT SCHEMATIC BALMORAL RD - PEARL AVE (N) TO DES PLAINES RIVER RD DES PLAINES RIVER ROAD - FOSTER AVE TO HIGGINS RD		F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 39	
N:\ROSEMONT\12012\Traffic\TS-029\SCH-1\overRd.dgn		DRAWN - FPB	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 61D25		
		CHECKED - GMZ	REVISED -							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)		
		DATE -	REVISED -									

ECON # 34

SURVEYED \_\_\_\_\_ DATE \_\_\_\_\_  
 PLANNED \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 BY \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 NO. \_\_\_\_\_  
 STRUCTURE NOTATION CHPO

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 Rosemont, Illinois 60018  
 (847) 823-0900

TS SHT NO. 20



**CONSTRUCTION NOTE:**  
 ① THE CONTRACTOR SHALL REMOVE THE TEMPORARY FIBER OPTIC CABLE AND INSTALL NEW CONTINUOUS FIBER OPTIC CABLE FROM TRAFFIC SIGNAL CABINET TO TRAFFIC SIGNAL CABINET. THE CONTRACTOR SHALL TEST THE FIBER OPTIC CABLE AND PROVIDE A WRITTEN REPORT TO THE ENGINEER, ACCORDING TO ARTICLE 801.13 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE COST OF TESTING IS INCLUDED IN THE UNIT COST OF THE FIBER OPTIC CABLE. TERMINATIONS AT THE CABINETS SHALL BE FUSION TERMINATIONS FOR 12 FIBERS.

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
N:\ROSEMONT\12012\TrafFic\TS-030_SCH-2\RiverRd.dgn		DRAWN - FPB	REVISED -
	PLOT SCALE = 50'	CHECKED - GMZ	REVISED -
	PLOT DATE = 10/17/2016	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC**  
**BALMORAL RD - PEARL AVE (N) TO DES PLAINES RIVER RD**  
**DES PLAINES RIVER ROAD - FOSTER AVE TO HIGGINS RD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	40
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT : M-4003(677)	

ECON # 34

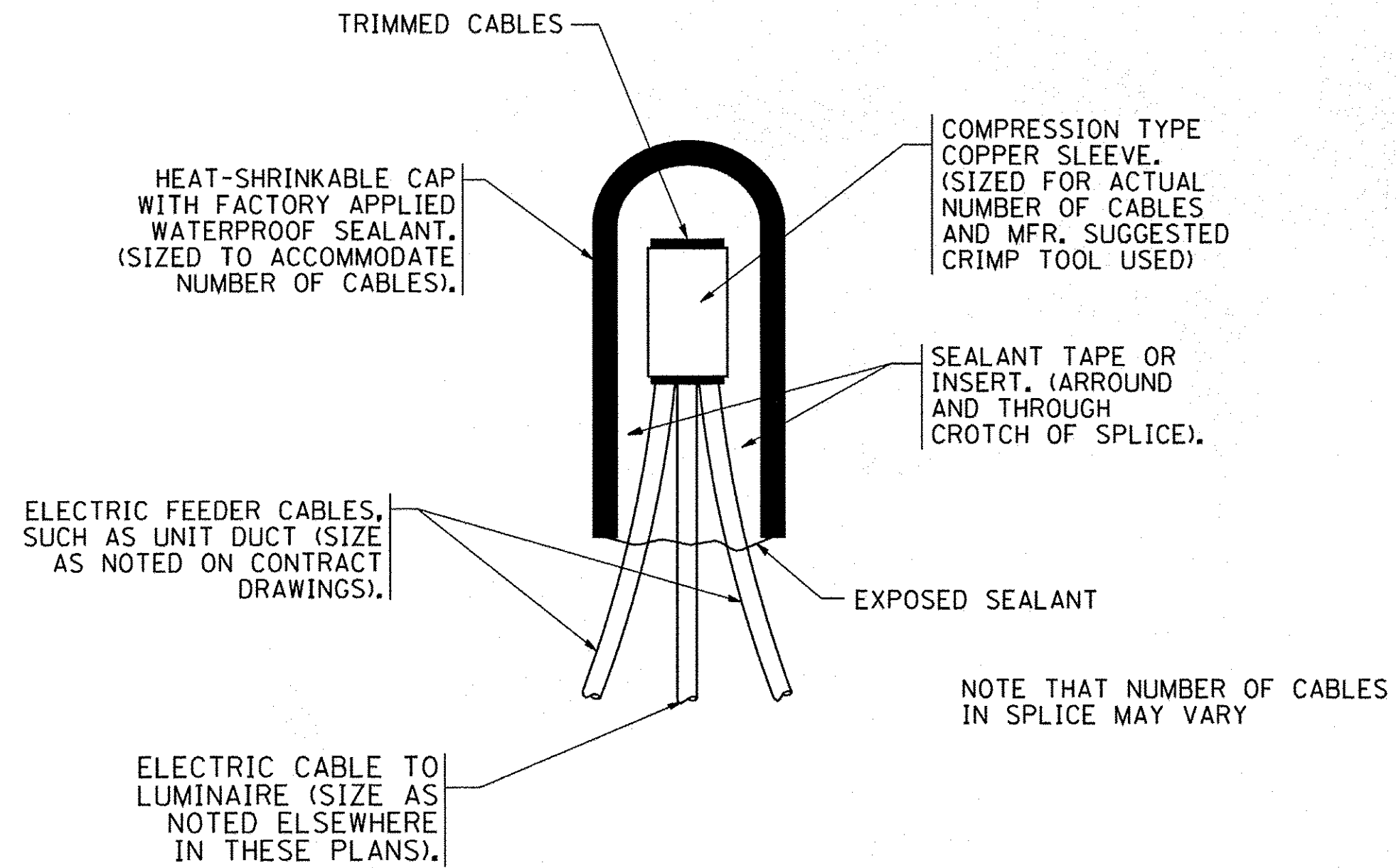


## LIGHTING NOTES

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT.
  - B. "THE NATIONAL ELECTRICAL CODE".
  - C. MUNICIPAL CODES & STANDARDS.
3. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED.
4. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123.
5. THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLTION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.

## LIGHTING BILL OF MATERIALS

CODE NO.	DESCRIPTION	UNIT	QUANTITY
81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	560
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	140
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 10	FOOT	2095
81702140	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 4	FOOT	2780
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
83600200	LIGHTPOLE FOUNDATION, 24" DIAMETER	FOOT	10
84200804	REMOVAL OF POLE FOUNDATION	EACH	1
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2500
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	1
X8410102	TEMPORARY LIGHTING SYSTEM	LSUM	1
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	4
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6



**TYPICAL SPLICE DETAIL**


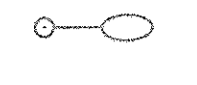
N.T.S.

<b>PROFILE</b> SURVEYED _____ PLOTTED _____ BY: _____ DATE: _____ NOTE BOOK NO. _____ STRUCTURE NOTATION: DRKO	<b>PLAN</b> SURVEYED _____ PLOTTED _____ BY: _____ DATE: _____ NOTE BOOK NO. _____ CADD FILE NAME: _____
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 Rosemont, Illinois 60018  
 (847) 823-0500

FILE NAME = N:\ROSEMONT\12012\Mech\L-001.GN.sht	USER NAME = ejensen	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING GENERAL NOTES &amp; BILL OF MATERIALS</b> <b>DES PLANES RIVER ROAD AT CTA STATION 1-190 WB RAMP</b>	F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 41
PLOT SCALE = 1"	PLOT DATE = 10/17/2016	DRAWN - RJJ	REVISIED -	SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61025		
CHECKED - AJD	DATE -	REVISIED -	REVISIED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)						

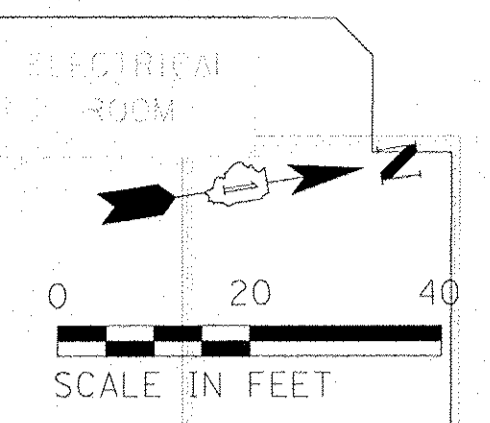
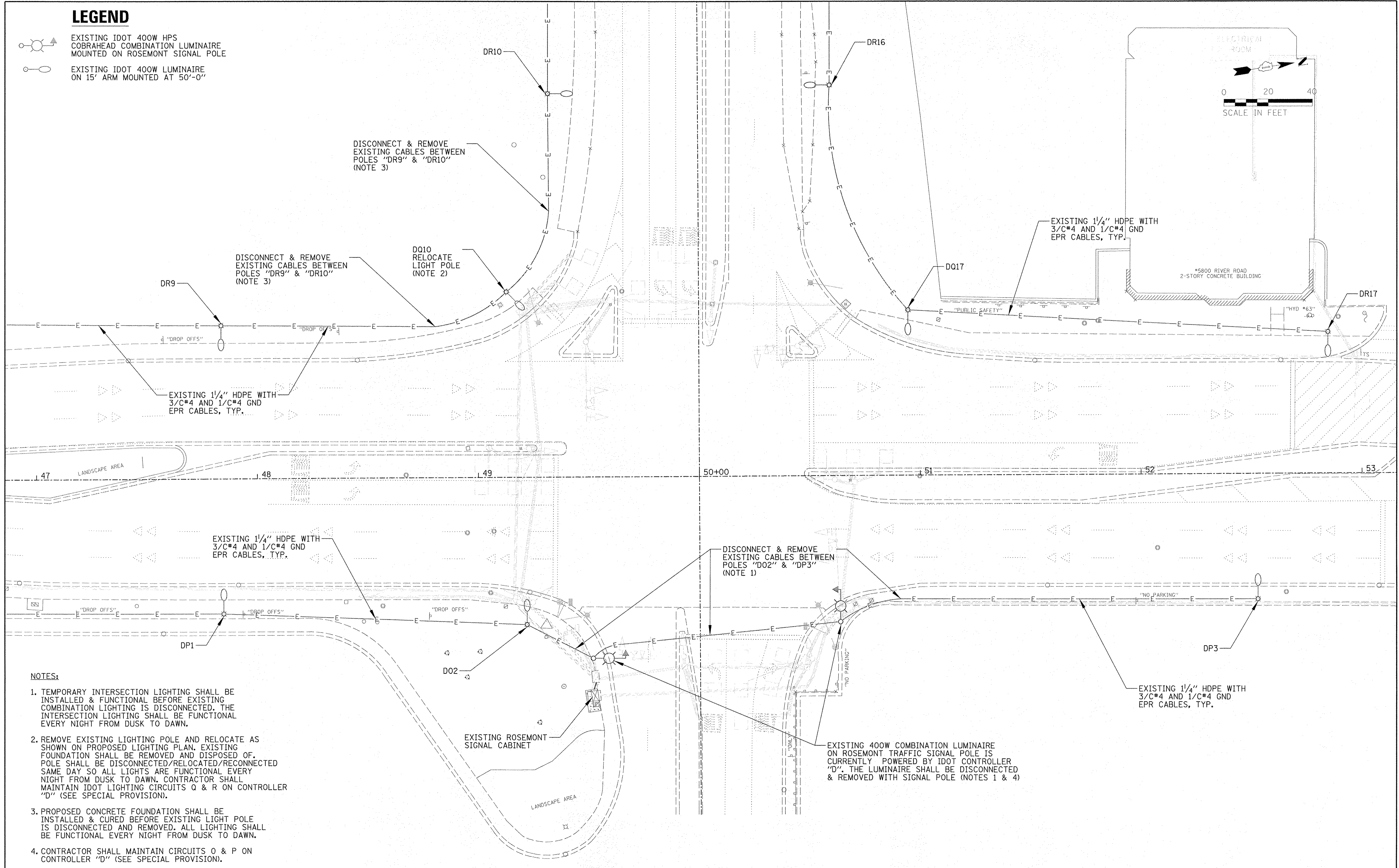
**LEGEND**

-  EXISTING IDOT 400W HPS COBRAHEAD COMBINATION LUMINAIRE MOUNTED ON ROSEMONT SIGNAL POLE
-  EXISTING IDOT 400W LUMINAIRE ON 15' ARM MOUNTED AT 50'-0"

DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

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Rosemont, Illinois 60018  
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DATE	BY	DATE	BY
DATE	BY	DATE	BY



- NOTES:**
- TEMPORARY INTERSECTION LIGHTING SHALL BE INSTALLED & FUNCTIONAL BEFORE EXISTING COMBINATION LIGHTING IS DISCONNECTED. THE INTERSECTION LIGHTING SHALL BE FUNCTIONAL EVERY NIGHT FROM DUSK TO DAWN.
  - REMOVE EXISTING LIGHTING POLE AND RELOCATE AS SHOWN ON PROPOSED LIGHTING PLAN. EXISTING FOUNDATION SHALL BE REMOVED AND DISPOSED OF. POLE SHALL BE DISCONNECTED/RELOCATED/RECONNECTED SAME DAY SO ALL LIGHTS ARE FUNCTIONAL EVERY NIGHT FROM DUSK TO DAWN. CONTRACTOR SHALL MAINTAIN IDOT LIGHTING CIRCUITS Q & R ON CONTROLLER "D" (SEE SPECIAL PROVISION).
  - PROPOSED CONCRETE FOUNDATION SHALL BE INSTALLED & CURED BEFORE EXISTING LIGHT POLE IS DISCONNECTED AND REMOVED. ALL LIGHTING SHALL BE FUNCTIONAL EVERY NIGHT FROM DUSK TO DAWN.
  - CONTRACTOR SHALL MAINTAIN CIRCUITS O & P ON CONTROLLER "D" (SEE SPECIAL PROVISION).

FILE NAME =	USER NAME = ejensen	DESIGNED - AJD	REVISED -
N:\ROSEMONT\12012\Mech\1-002.LGT.REM.sh		DRAWN - RJ	REVISED -
	PLOT SCALE = 20'	CHECKED - AJD	REVISED -
	PLOT DATE = 10/17/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

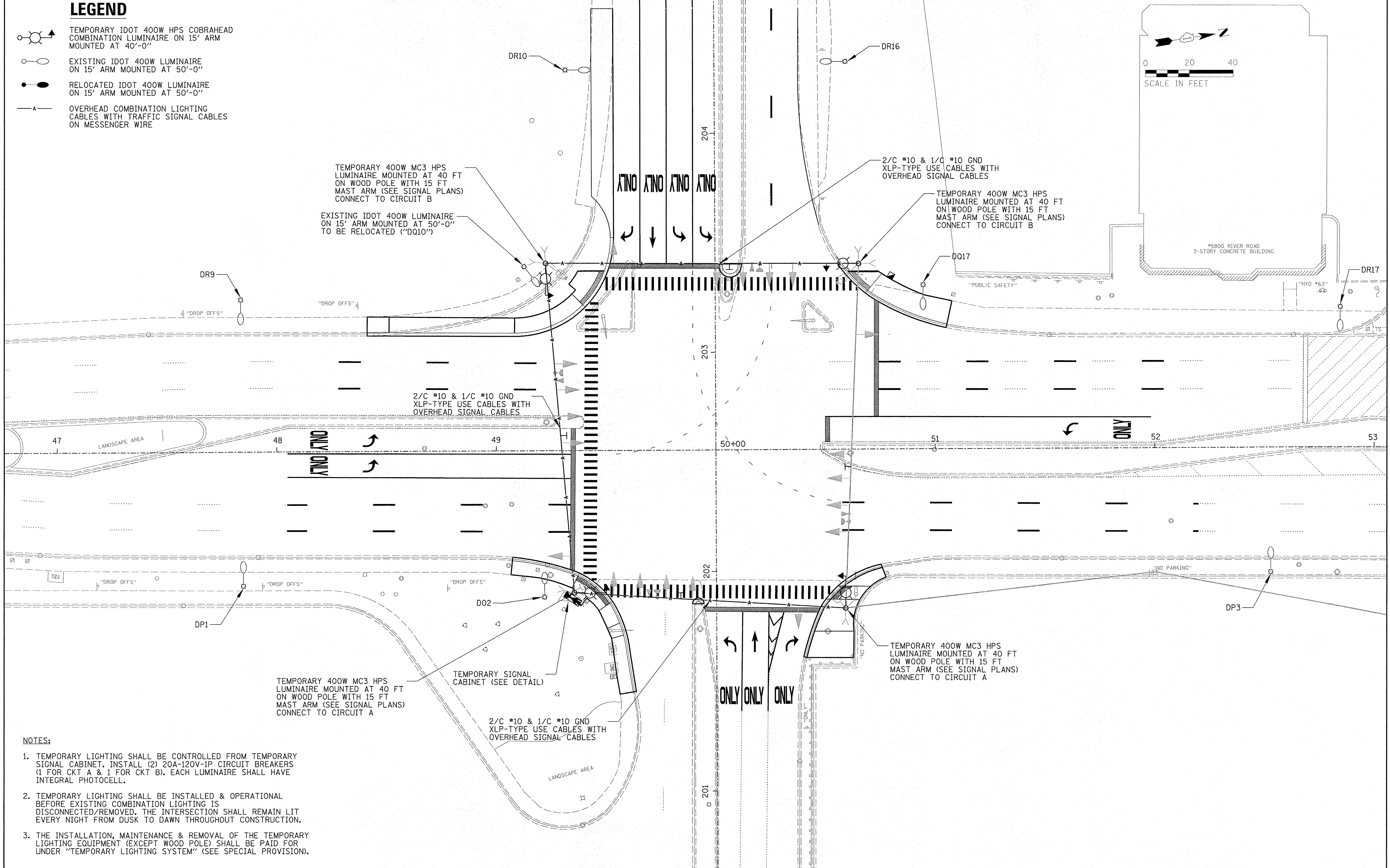
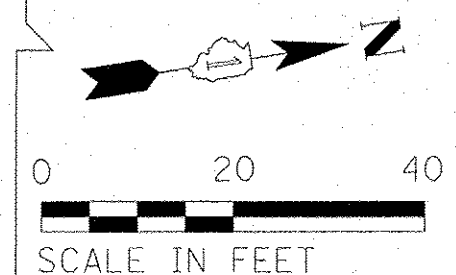
**LIGHTING REMOVAL PLAN  
DES PLAINES RIVER ROAD AT  
CTA STATION /I-190 WB RAMP**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8522	13-00032-00-TL	COOK	61	42
CONTRACT NO. 61D25			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-40031677	

**LEGEND**

- TEMPORARY IDOT 400W HPS COBRAHEAD COMBINATION LUMINAIRE ON 15' ARM MOUNTED AT 40'-0"
- EXISTING IDOT 400W LUMINAIRE ON 15' ARM MOUNTED AT 50'-0"
- RELOCATED IDOT 400W LUMINAIRE ON 15' ARM MOUNTED AT 50'-0"
- OVERHEAD COMBINATION LIGHTING CABLES WITH TRAFFIC SIGNAL CABLES ON MESSENGER WIRE



- NOTES:**
1. TEMPORARY LIGHTING SHALL BE CONTROLLED FROM TEMPORARY SIGNAL CABINET. INSTALL (2) 20A-120V-1P CIRCUIT BREAKERS (1 FOR CKT A & 1 FOR CKT B). EACH LUMINAIRE SHALL HAVE INTEGRAL PHOTOCELL.
  2. TEMPORARY LIGHTING SHALL BE INSTALLED & OPERATIONAL BEFORE EXISTING COMBINATION LIGHTING IS DISCONNECTED/REMOVED. THE INTERSECTION SHALL REMAIN LIT EVERY NIGHT FROM DUSK TO DAWN THROUGHOUT CONSTRUCTION.
  3. THE INSTALLATION, MAINTENANCE & REMOVAL OF THE TEMPORARY LIGHTING EQUIPMENT (EXCEPT WOOD POLE) SHALL BE PAID FOR UNDER "TEMPORARY LIGHTING SYSTEM" (SEE SPECIAL PROVISION).

PROFILE SURVEYED BY DATE  
 NOTE BOOK NO. DATE  
 STRUCTURE NOTATION CORD  
 SURVEYED BY DATE  
 GRADES CHECKED  
 S.M. NOTED  
 CHECKED  
 ALIGNED CHECKED  
 PLAN SURVEYED BY DATE  
 NOTE BOOK NO. DATE  
 CADD FILE NAME  
**CHRISTOPHER B. BURKE** ENGINEERING LTD.  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (617) 923-0600

FILE NAME = N:\ROSEMONT\12012\Mech\1-203.LGT_TEMP.dwg	USER NAME = ajensen	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY INTERSECTION LIGHTING PLAN</b> <b>DES PLANES RIVER ROAD AT CTA STATION 1-190 WB RAMP</b>	F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 43		
	PLOT SCALE = 20'	DRAWN - RJJ	REVISED -			SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61D25		
	PLOT DATE = 10/17/2016	CHECKED - AJD	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)						
		DATE -	REVISED -									

**LEGEND**

- PROPOSED ROSEMONT 400W HPS COBRAHEAD COMBINATION LUMINAIRE ON 15' ARM MOUNTED AT 45'-0"
- EXISTING IDOT 400W LUMINAIRE ON 15' ARM MOUNTED AT 50'-0"
- RELOCATED IDOT POLE WITH 400W LUMINAIRE ON 15' ARM MOUNTED AT 50'-0"
- COMBINATION LIGHTING CABLES IN TRAFFIC SIGNAL CONDUIT
- PROPOSED HDPE CONDUIT WITH CABLES
- EXISTING HDPE CONDUIT WITH CABLES

PROPOSED 1/4" HDPE WITH 3/C\*4 AND 1/C\*4 GND XLP-TYPE USE CABLES (NOTE 5)

RELOCATED DQ10 STA 49+40, 10' F.O.C. (NOTE 3)

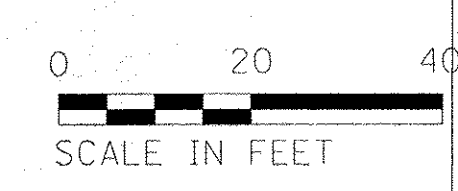
PROPOSED 1/4" HDPE WITH 3/C\*4 AND 1/C\*4 GND XLP-TYPE USE CABLES (NOTE 5)

INSTALL 2 SETS OF (2/C\*10 AND 1/C\*10 GND XLP-TYPE USE CABLES) FOR COMBINATION LIGHTING IN PROPOSED TRAFFIC SIGNAL CONDUIT

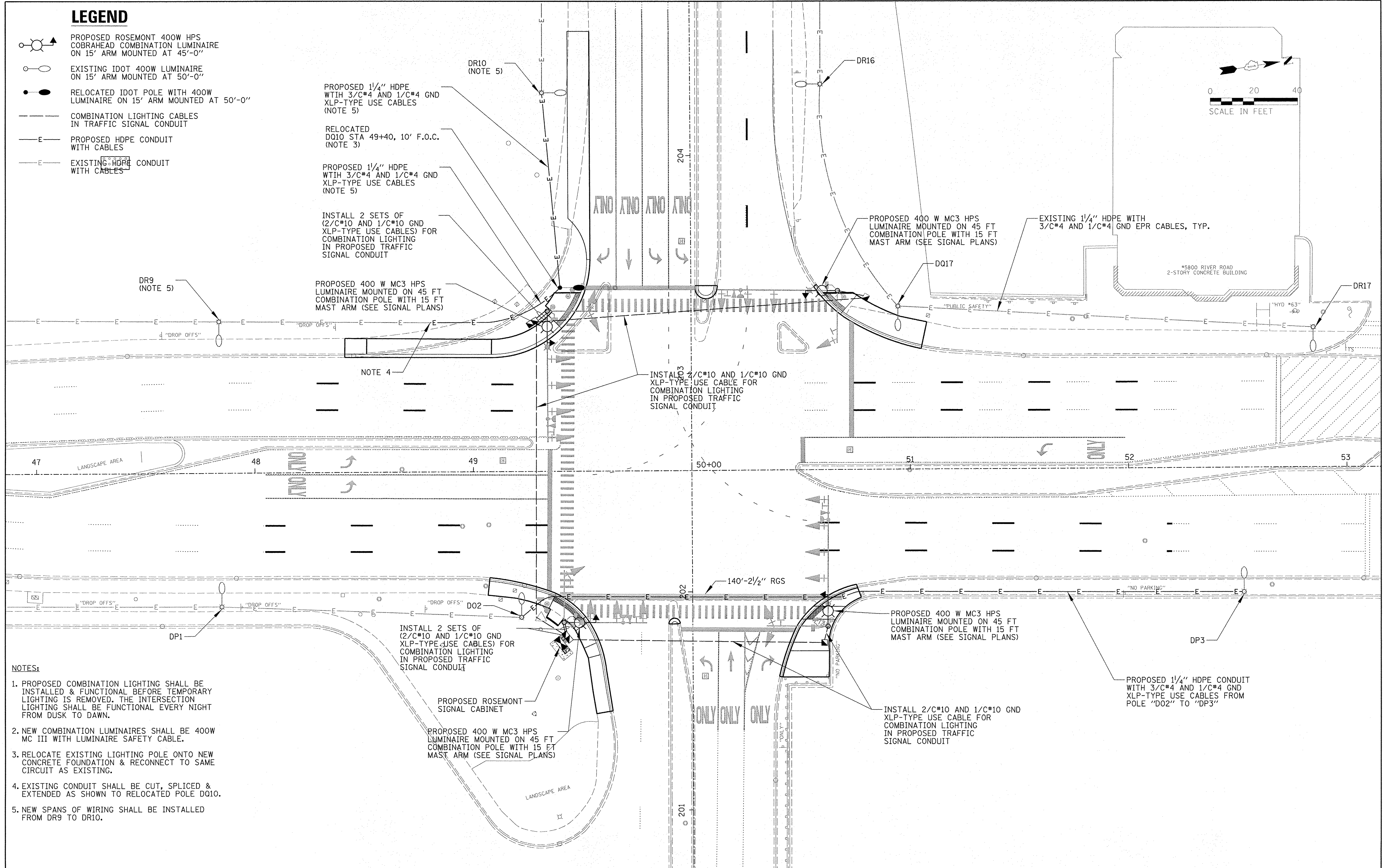
PROPOSED 400 W MC3 HPS LUMINAIRE MOUNTED ON 45 FT COMBINATION POLE WITH 15 FT MAST ARM (SEE SIGNAL PLANS)

PROPOSED 400 W MC3 HPS LUMINAIRE MOUNTED ON 45 FT COMBINATION POLE WITH 15 FT MAST ARM (SEE SIGNAL PLANS)

EXISTING 1/4" HDPE WITH 3/C\*4 AND 1/C\*4 GND EPR CABLES, TYP.



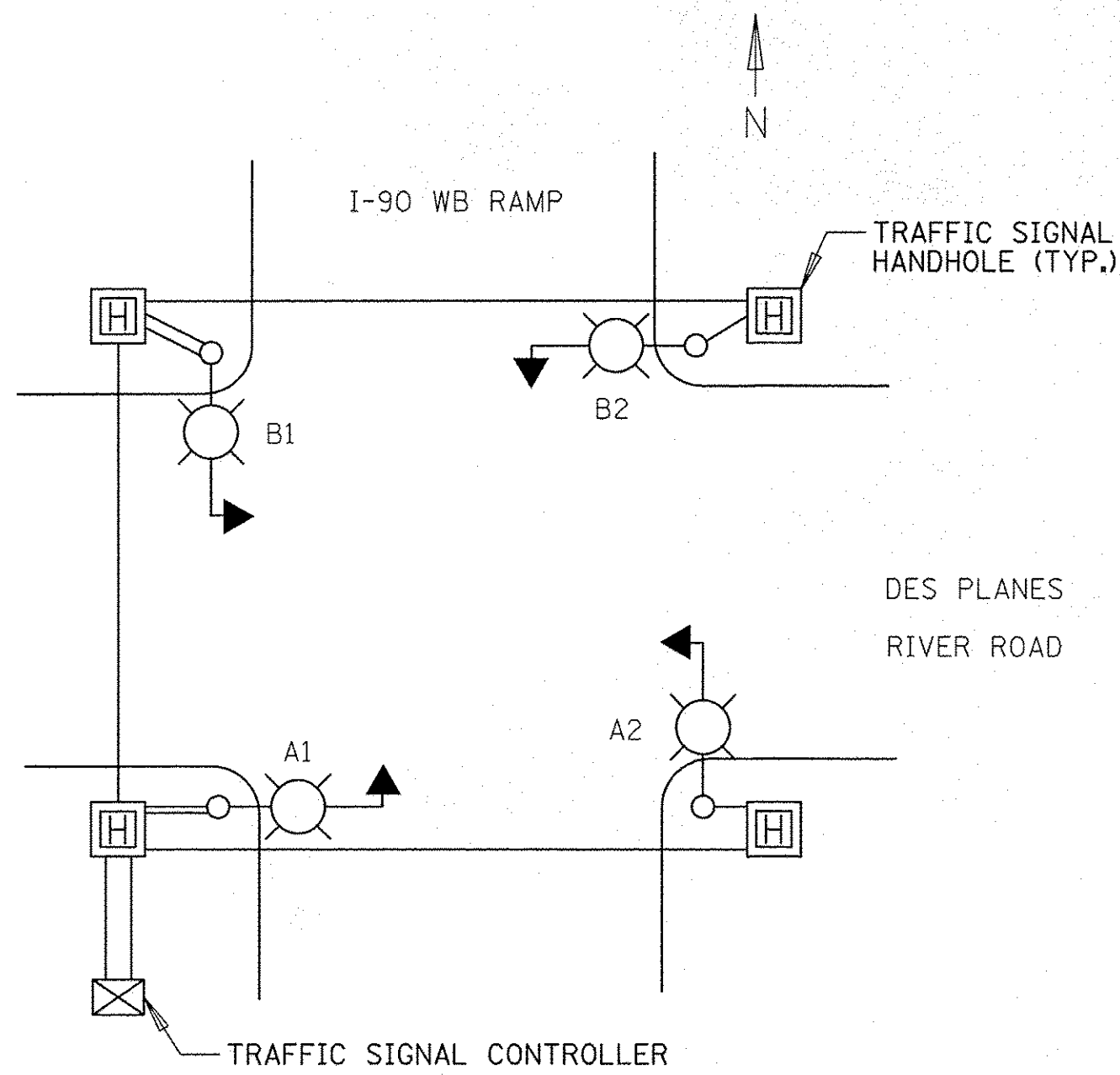
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 PLANNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 CADD FILE NAME: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NO. \_\_\_\_\_  
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 Rosemont, Illinois 60018  
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 CB  
 PROFILE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 STRUCTURE NOTATIONS: CHND



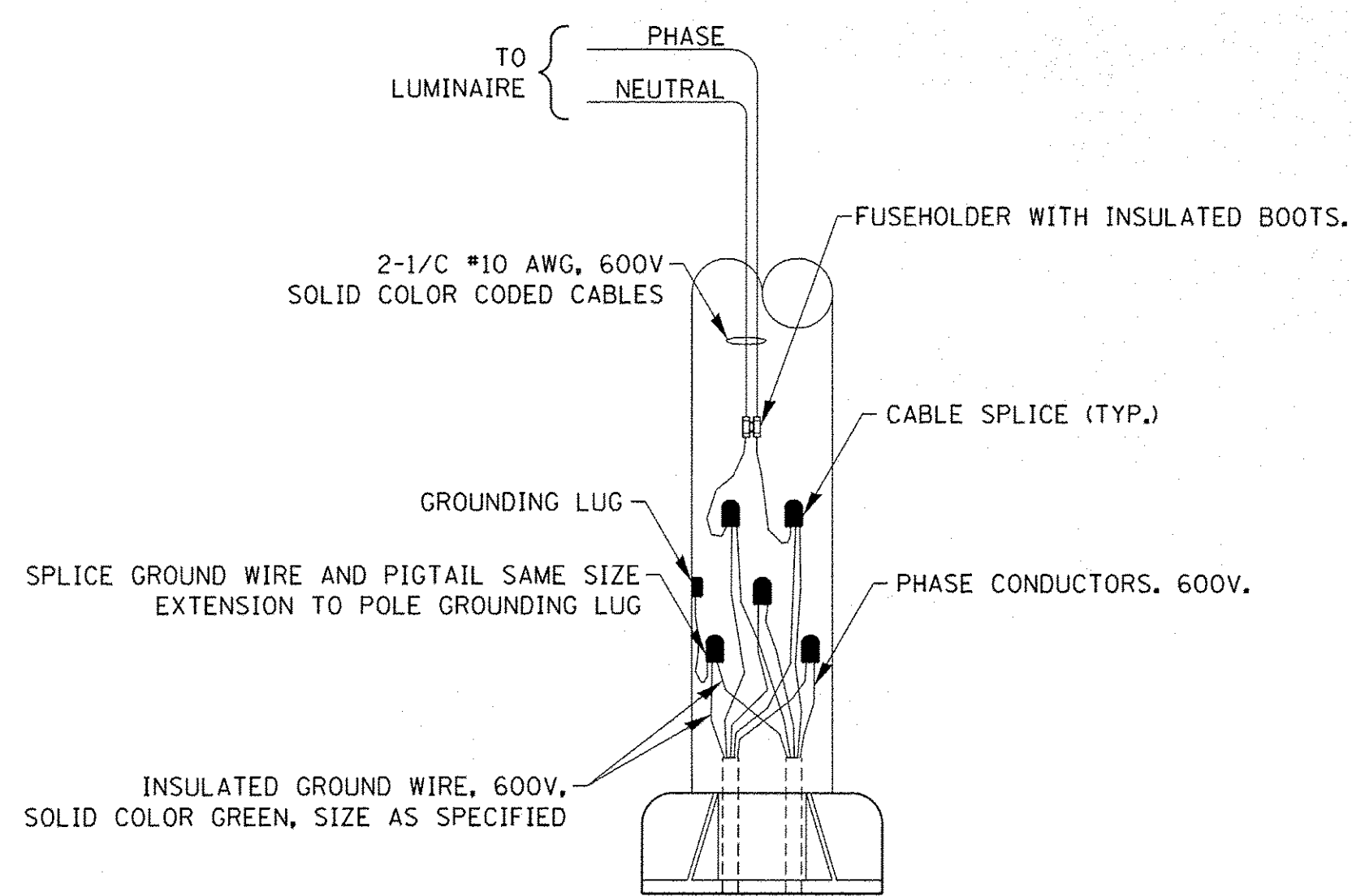
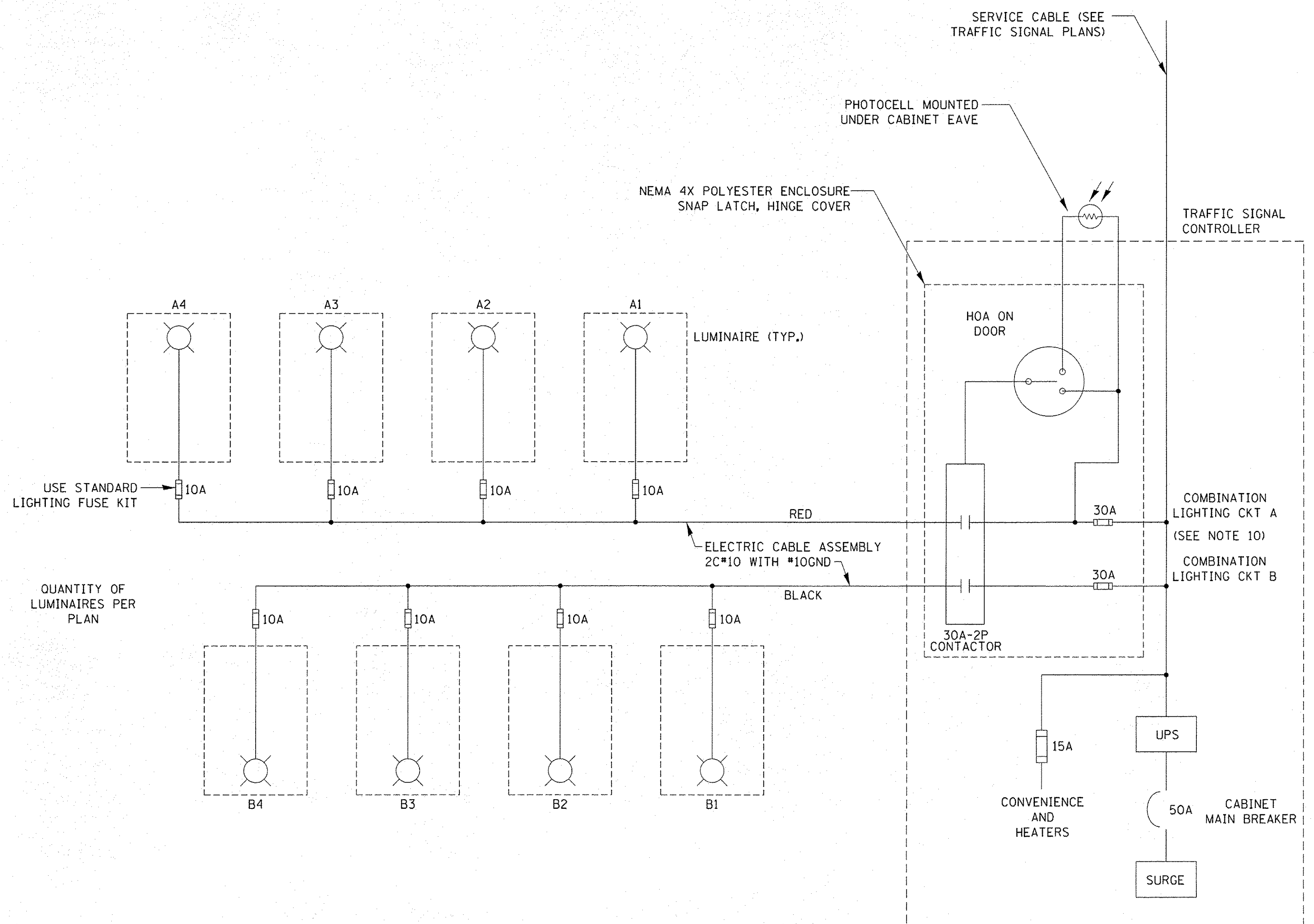
- NOTES:**
1. PROPOSED COMBINATION LIGHTING SHALL BE INSTALLED & FUNCTIONAL BEFORE TEMPORARY LIGHTING IS REMOVED. THE INTERSECTION LIGHTING SHALL BE FUNCTIONAL EVERY NIGHT FROM DUSK TO DAWN.
  2. NEW COMBINATION LUMINAIRES SHALL BE 400W MC III WITH LUMINAIRE SAFETY CABLE.
  3. RELOCATE EXISTING LIGHTING POLE ONTO NEW CONCRETE FOUNDATION & RECONNECT TO SAME CIRCUIT AS EXISTING.
  4. EXISTING CONDUIT SHALL BE CUT, SPLICED & EXTENDED AS SHOWN TO RELOCATED POLE DQ10.
  5. NEW SPANS OF WIRING SHALL BE INSTALLED FROM DR9 TO DR10.

FILE NAME = N:\ROSEMONT\12012\Mech\1-004_LGT.sht	USER NAME = e.jensen	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED LIGHTING PLAN DES PLAINES RIVER ROAD AT CTA STATION /I-190 WB RAMP</b>	F.A.U. RTE. = 8522	SECTION = 13-00032-00-TL	COUNTY = COOK	TOTAL SHEETS = 61	SHEET NO. = 44
PLOT SCALE = 20'	CHECKED - AJD	REVISED -	SCALE: 1" = 20'			SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT : M-4003(677)	
PLOT DATE = 10/17/2016	DATE -	REVISED -	CONTRACT NO. 61D25							

SURVEYED BY DATE  
 PLANNED BY DATE  
 CHECKED BY DATE  
 PLOT DATE = 10/17/2016  
 FILE NAME = N:\ROSEMONT\12012\Mech\1-005-LDT\_01.sht  
 USER NAME = ejensen  
 DESIGNED - AJD  
 DRAWN - RJJ  
 CHECKED - AJD  
 DATE -  
 REVISED -  
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 REVISED -  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 LIGHTING DETAILS (1 OF 3)  
 DES PLANES RIVER ROAD AT CTA STATION 1-190 WB RAMP  
 SCALE: N.T.S. SHEET NO. 1 OF 3 SHEETS STA. N/A TO STA. N/A  
 F.A.U. RTE. 8522 SECTION 13-00032-00-TL COUNTY COOK TOTAL SHEETS 61 SHEET NO. 45  
 CONTRACT NO. 61D25  
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)



**TYPICAL LIGHTING CIRCUIT DESIGNATIONS**  
 (NOT TO SCALE)



**COMBINATION POLE WIRING DETAIL**  
 (NOT TO SCALE)

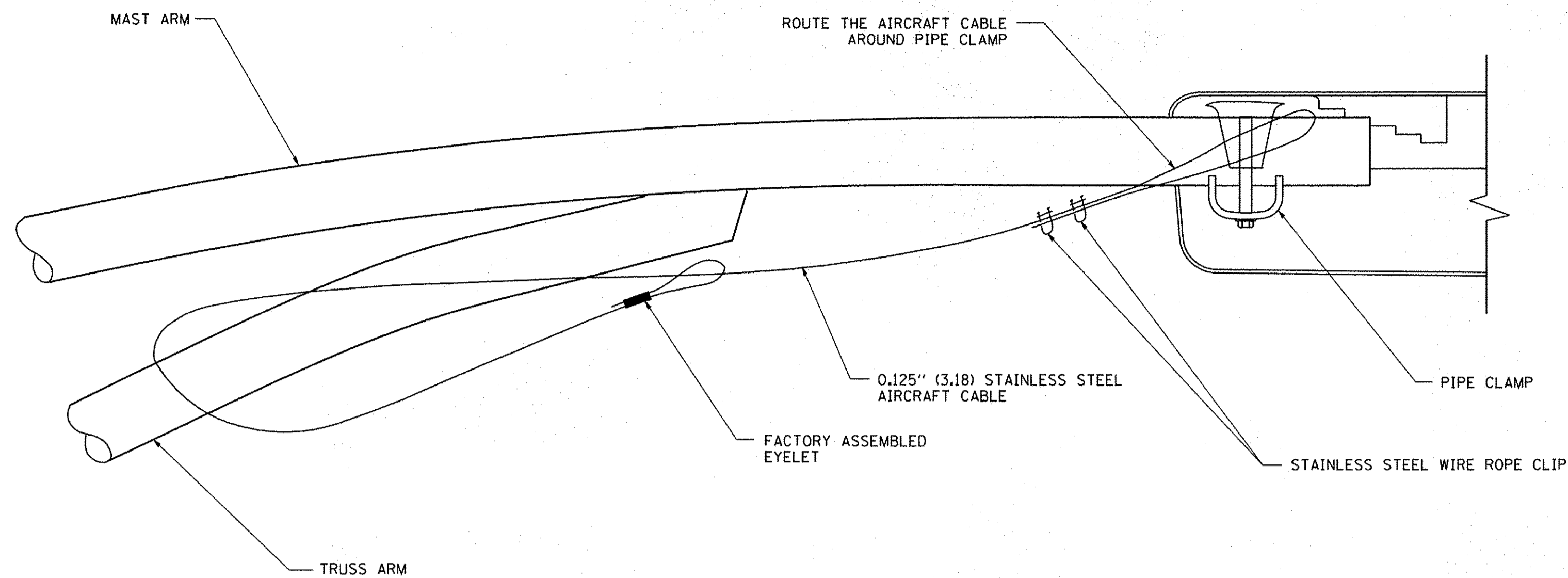
**NOTES:**

- 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
- MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
- ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
- ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
- ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
- ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
- LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED WITH THE ENGINEER.
- RECORD DRAWING SHALL INCLUDE:
  - TRAFFIC SIGNAL PLAN SHEET(S)
  - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
  - LIGHTING PLANS
  - THIS DETAIL
- THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
- LIGHTING CONNECTED TO UPS BYPASS CIRCUIT

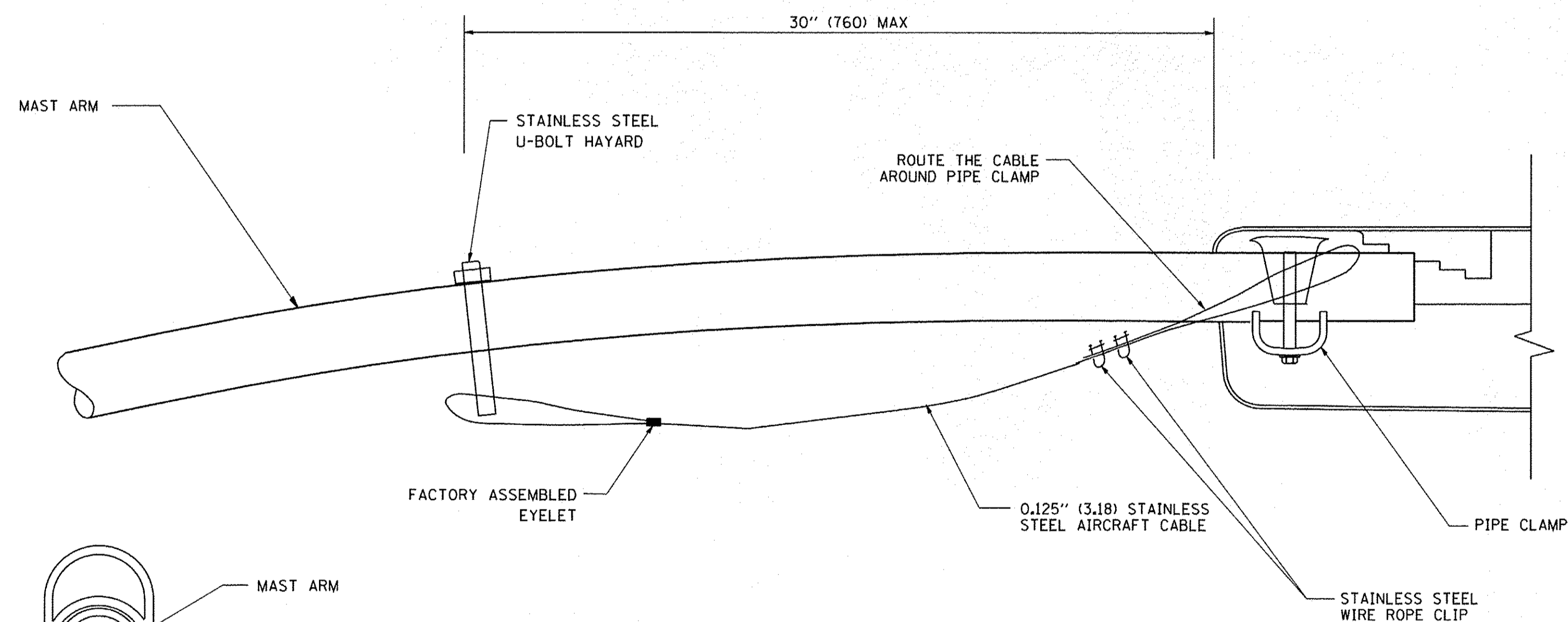
**COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC**  
 N.T.S.

FILE NAME =	USER NAME = ejensen	DESIGNED - AJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS (1 OF 3) DES PLANES RIVER ROAD AT CTA STATION 1-190 WB RAMP			F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 45
PLOT SCALE = 1"	PLOT DATE = 10/17/2016	DRAWN - RJJ	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 3 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 61D25				
		CHECKED - AJD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)							
		DATE -	REVISED -									

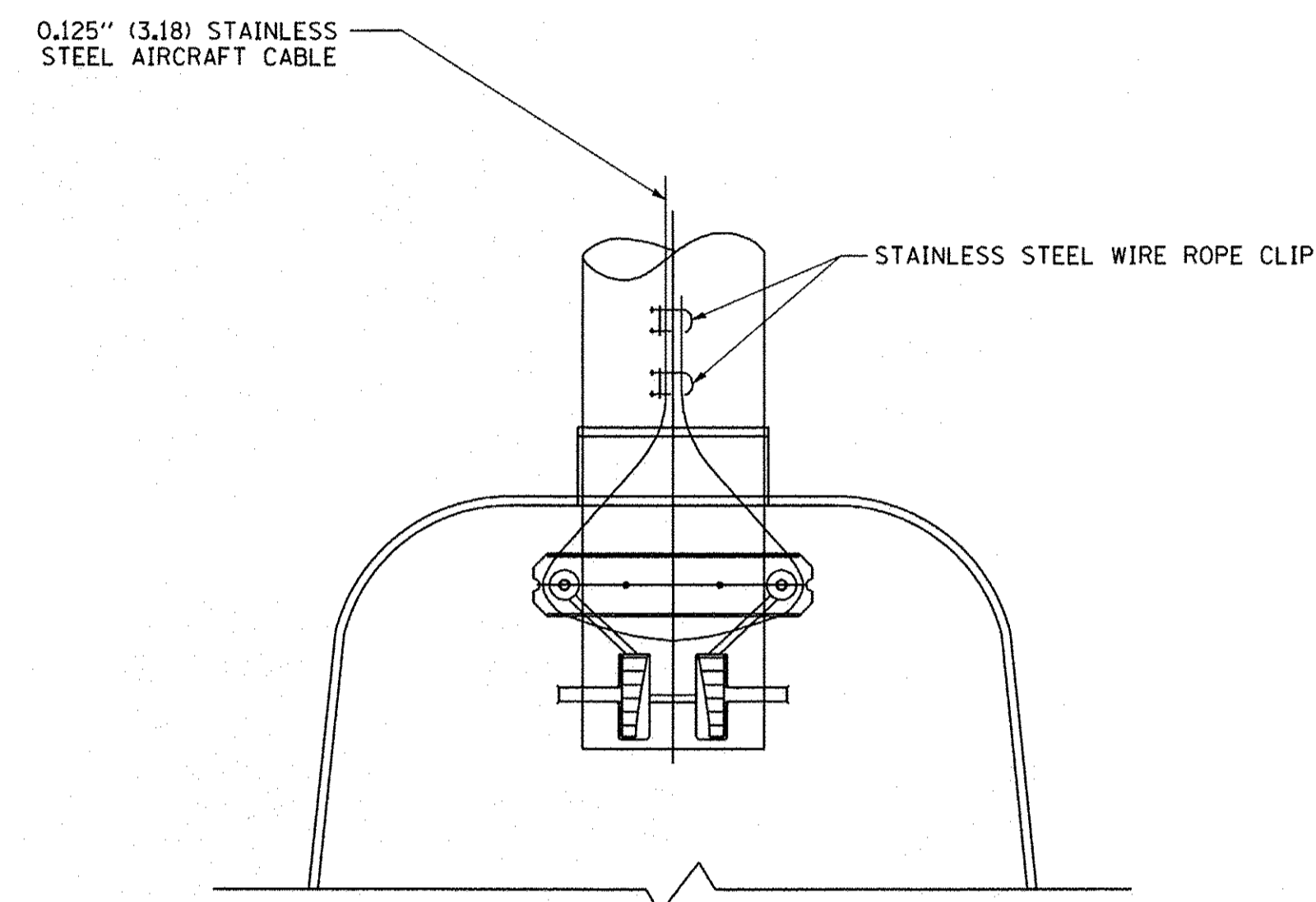
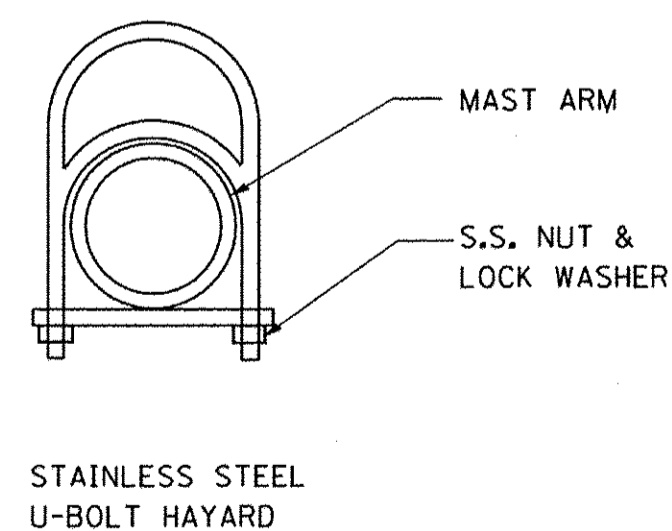
SURVEYED BY DATE  
 CHECKED BY  
 PLAN NO.  
 ENGINEERING LTD.  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 622-0800  
 SURVEYED BY DATE  
 CHECKED BY  
 PROFILE NO.  
 STRUCTURE NO.



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



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



BOTTOM VIEW  
N.T.S.

NOTES:

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

**LUMINAIRE SAFETY CABLE**

N.T.S.

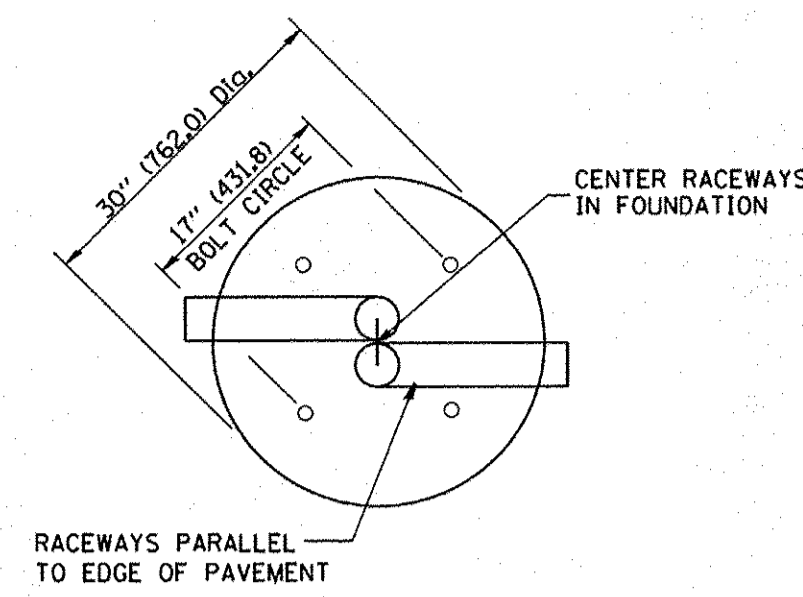
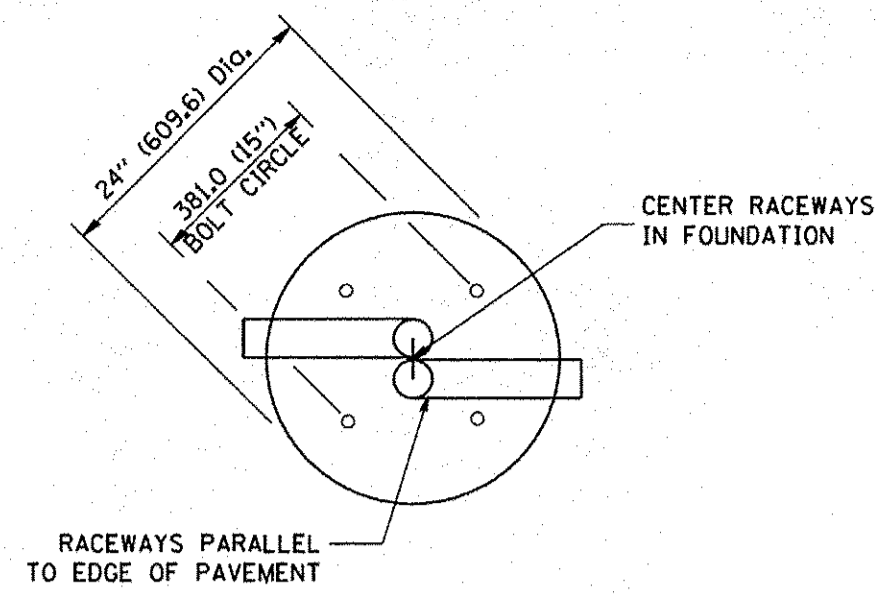
**IDOT STANDARD BE-701**

(REV 8-8-03)

FILE NAME = N:\ROSEMONT\12012\Mech\1-006_L01_02.shx	USER NAME = ejensen	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING DETAILS (2 OF 3)</b> <b>DES PLANES RIVER ROAD AT CTA STATION 1-190 WB RAMP</b>				F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 46
PLOT SCALE = 1"	PLOT DATE = 10/17/2016	DRAWN - RJJ	REVISED -		SCALE: N.T.S.	SHEET NO. 2 OF 3 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61025				
		CHECKED - AJD	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)								
		DATE -	REVISED -										

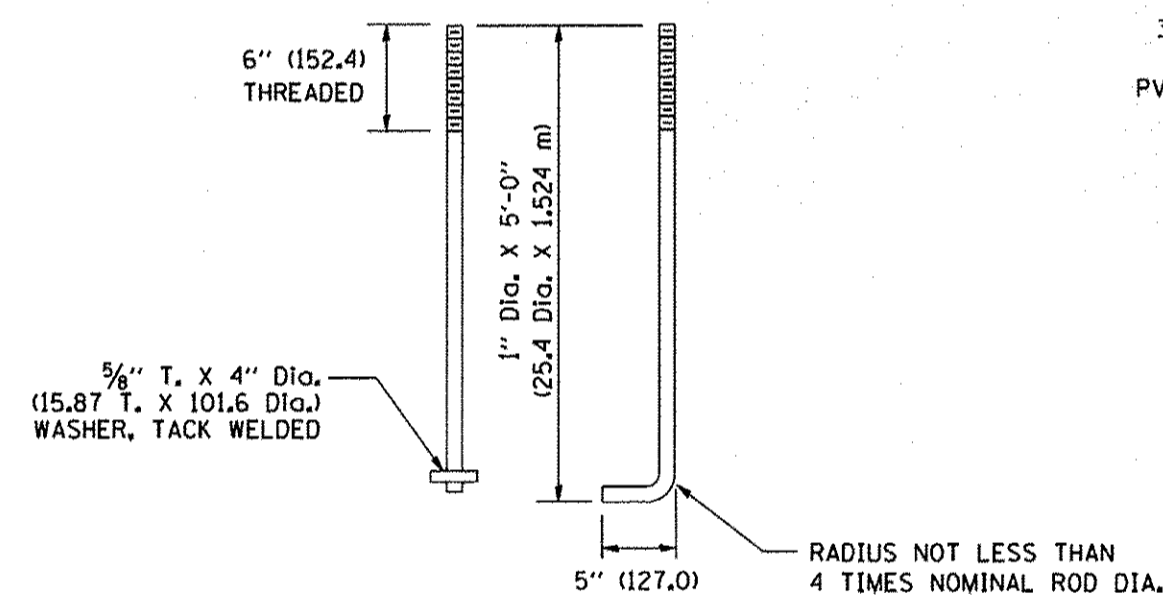
**LIGHT POLE FOUNDATION DEPTH TABLE**  
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Q <sub>u</sub> = 0.375 TON/SO. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Q <sub>u</sub> = 0.75 TON/SO. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Q <sub>u</sub> = 1.50 TON/SO. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

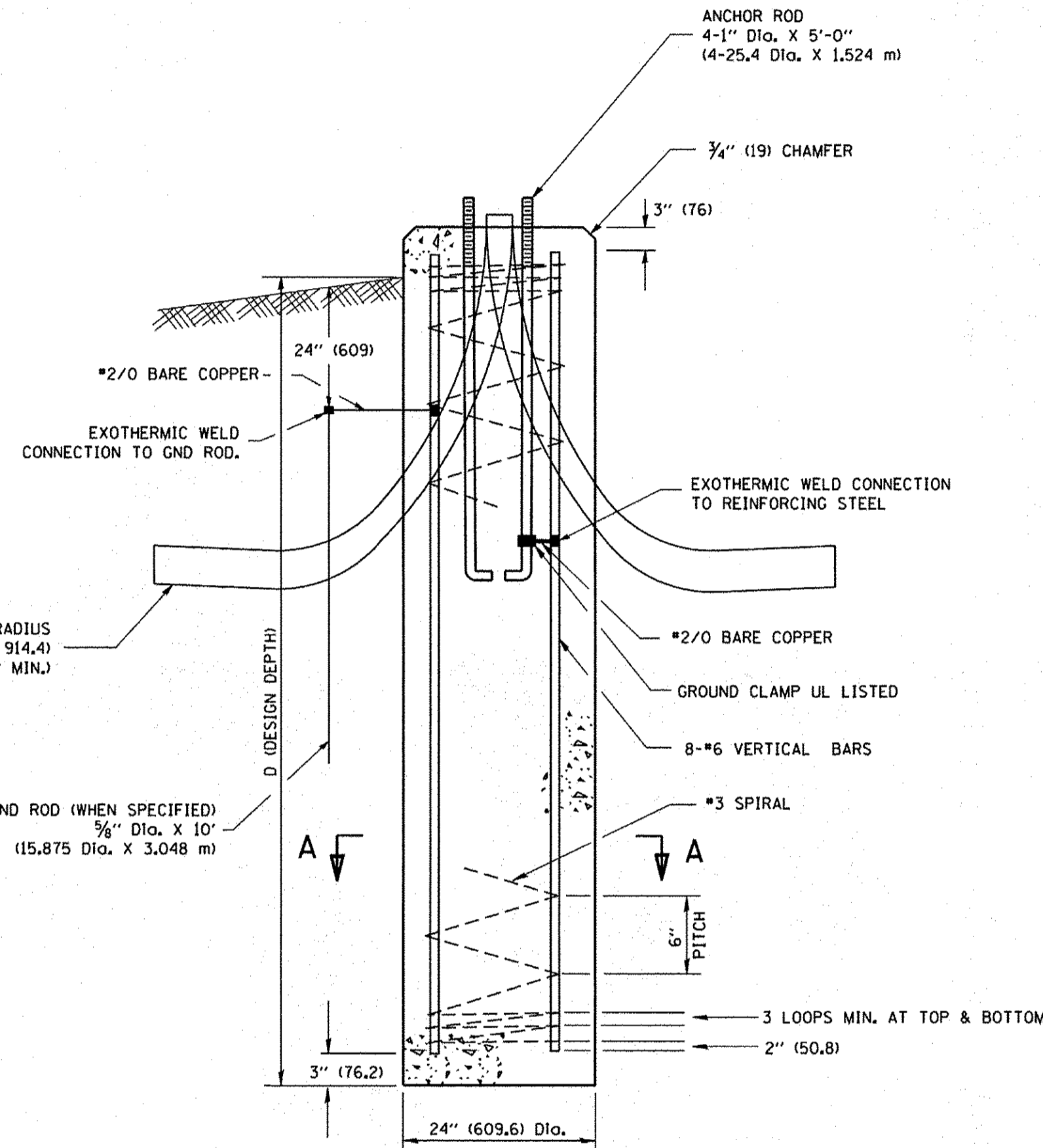


**TOP VIEW**

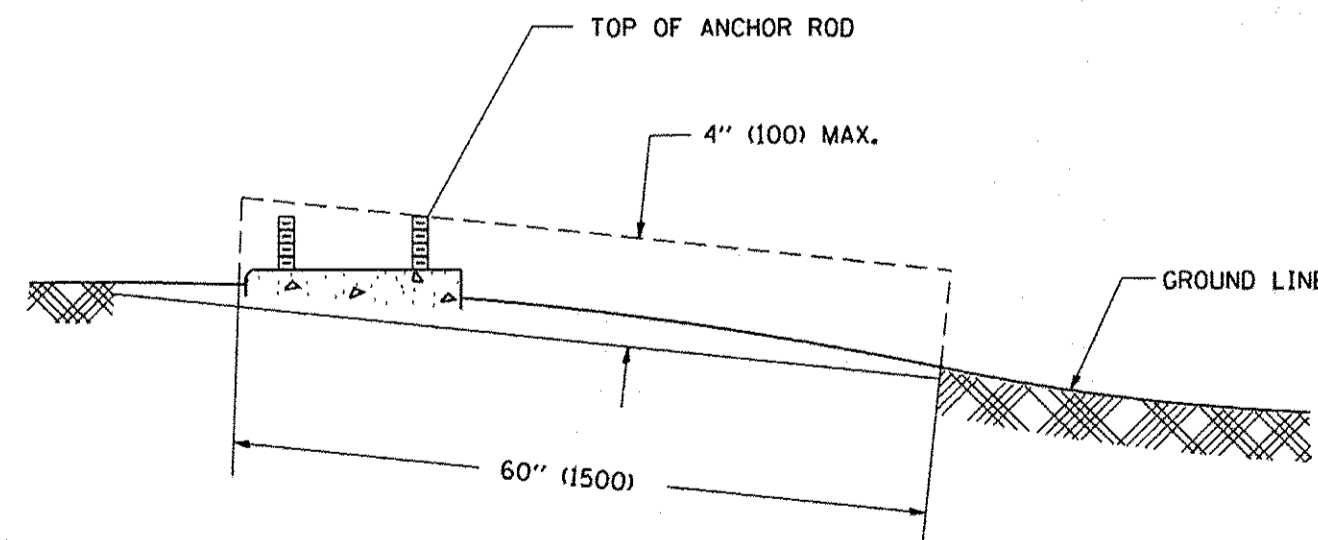
**TOP VIEW**



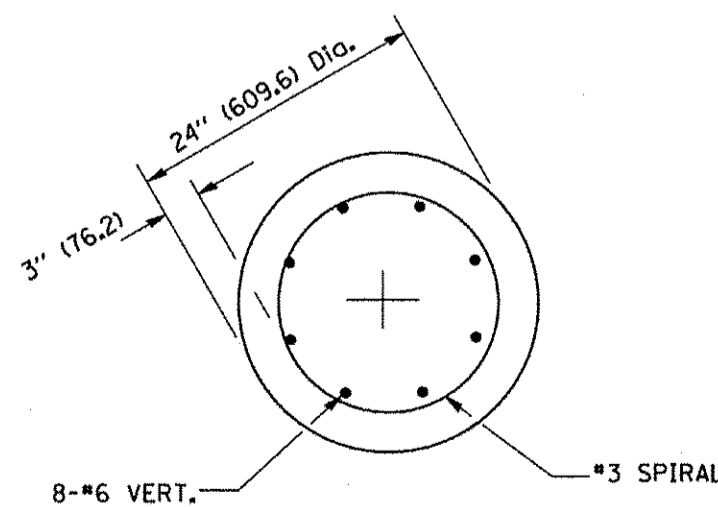
**ANCHOR ROD DETAIL**



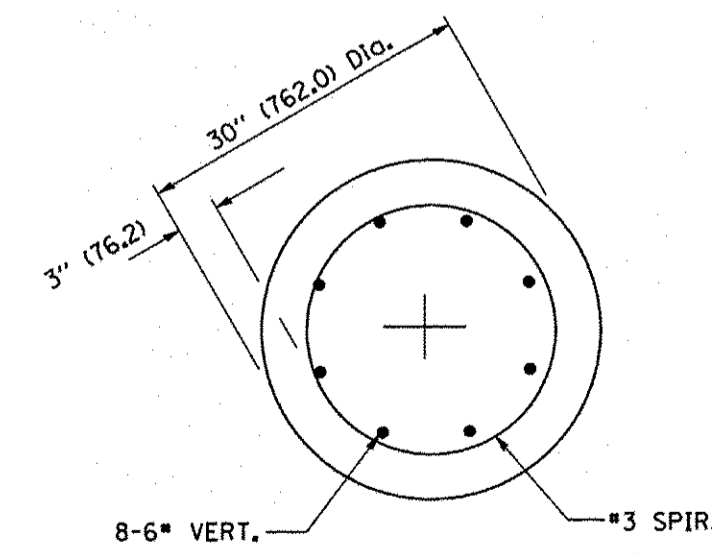
**FOUNDATION DETAIL**



**FOUNDATION EXTENSION DETAIL**



**SECTION A-A**



**SECTION A-A**

**LIGHT POLE FOUNDATION**

**40\* (12.192 m) TO 47 1/2\* (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE**

N.T.S.

**IDOT STANDARD BE-301**

(REV 4-22-02)

**NOTES**

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG (MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 ALIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 FIT. OF WAY: \_\_\_\_\_  
 ADD. FILE NAME: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO.: \_\_\_\_\_  
**CHRISTOPHER B. BURKE** ENGINEERING LTD.  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (617) 825-0500  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 GRADES: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 B.M. NOTED: \_\_\_\_\_  
 STRUCTURE: \_\_\_\_\_  
 NOTATIONS: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO.: \_\_\_\_\_

FILE NAME = N:\ROSEMONT\12012\Mech\1-007_LDT_03.sht	USER NAME = ejensen	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHTING DETAILS (3 OF 3)</b>			F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 47	
PLOT SCALE = 1"	PLOT DATE = 10/17/2016	DRAWN - RJJ	REVISED -		<b>DES PLANES RIVER ROAD AT CTA STATION 1-190 WB RAMP</b>			CONTRACT NO. 61D25		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)			
		CHECKED - AJD	REVISED -		SCALE: N.T.S.	SHEET NO. 3 OF 3 SHEETS	STA. N/A	TO STA. N/A					
		DATE -	REVISED -										

SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 PLAN NO. \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 CAD FILE NAME: \_\_\_\_\_  
 PROFILE SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATION: \_\_\_\_\_

**CHRISTOPHER B. BURKE**  
 ENGINEERING LTD.  
 8575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 923-0800

SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 PLAN NO. \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 CAD FILE NAME: \_\_\_\_\_  
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 NOTE BOOK NO. \_\_\_\_\_  
 STRUCTURE NOTATION: \_\_\_\_\_

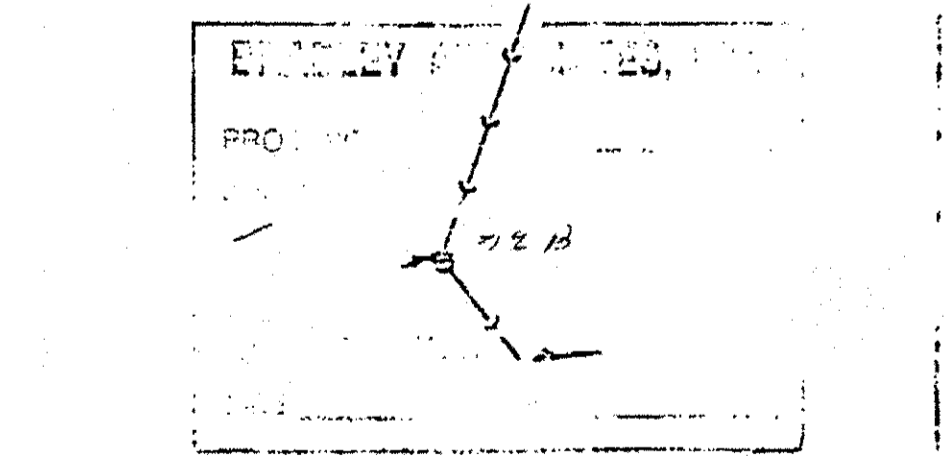
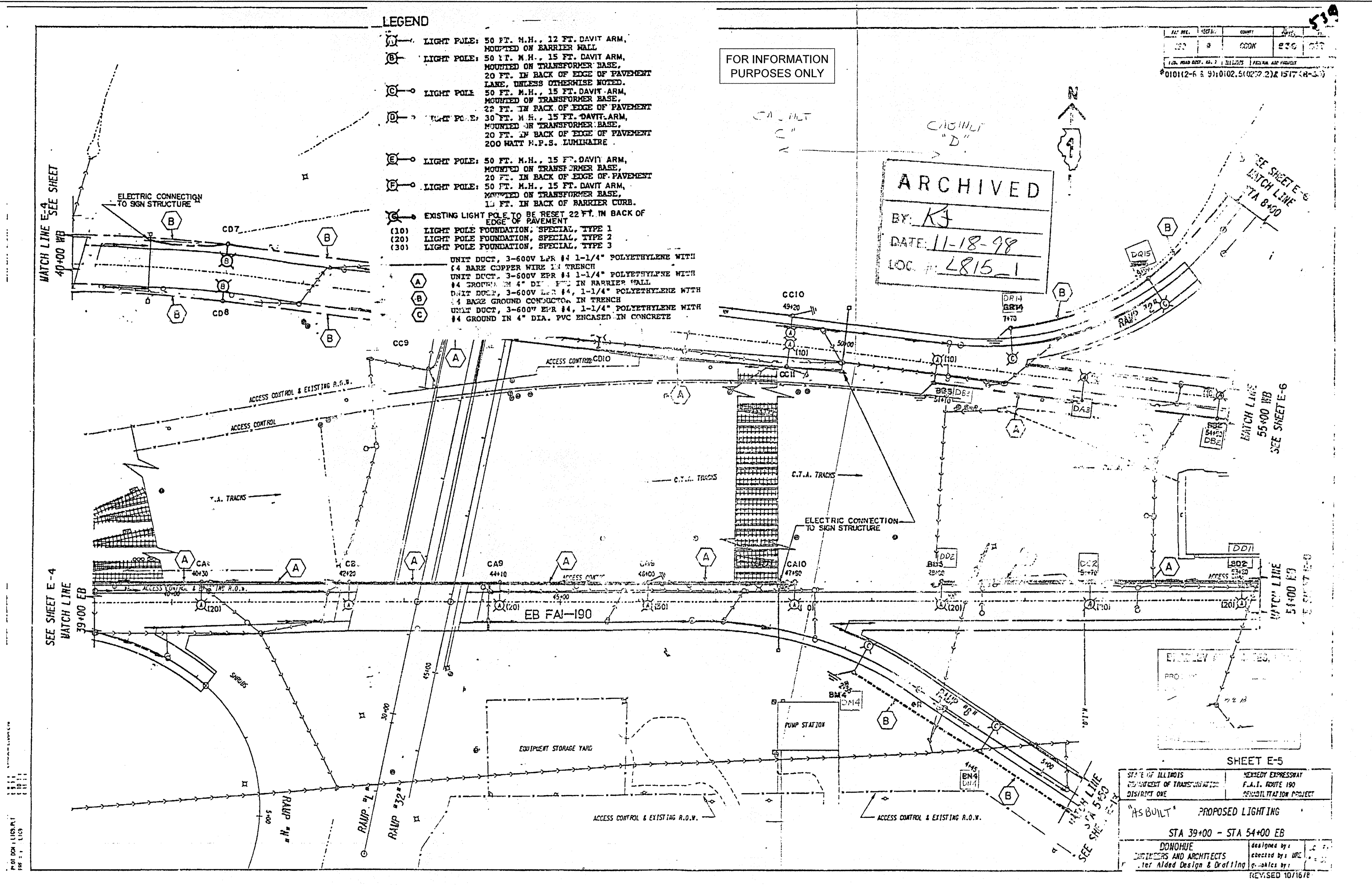
**LEGEND**

- (A) LIGHT POLE: 50 FT. M.H., 12 FT. DAVIT ARM, MOUNTED ON BARRIER WALL
  - (B) LIGHT POLE: 50 FT. M.H., 15 FT. DAVIT ARM, MOUNTED ON TRANSFORMER BASE, 20 FT. IN BACK OF EDGE OF PAVEMENT LANE, UNLESS OTHERWISE NOTED.
  - (C) LIGHT POLE: 50 FT. M.H., 15 FT. DAVIT ARM, MOUNTED ON TRANSFORMER BASE, 22 FT. IN RACK OF EDGE OF PAVEMENT
  - (D) LIGHT POLE: 30 FT. M.H., 15 FT. DAVIT ARM, MOUNTED ON TRANSFORMER BASE, 20 FT. IN BACK OF EDGE OF PAVEMENT 200 WATT H.P.S. LUMINAIRE
  - (E) LIGHT POLE: 50 FT. M.H., 15 FT. DAVIT ARM, MOUNTED ON TRANSFORMER BASE, 20 FT. IN BACK OF EDGE OF PAVEMENT
  - (F) LIGHT POLE: 50 FT. M.H., 15 FT. DAVIT ARM, MOUNTED ON TRANSFORMER BASE, 15 FT. IN BACK OF BARRIER CURB.
  - (G) EXISTING LIGHT POLE TO BE RESET 22 FT. IN BACK OF EDGE OF PAVEMENT
  - (10) LIGHT POLE FOUNDATION, SPECIAL, TYPE 1
  - (20) LIGHT POLE FOUNDATION, SPECIAL, TYPE 2
  - (30) LIGHT POLE FOUNDATION, SPECIAL, TYPE 3
- UNIT DUCT, 3-600V LPR #4 1-1/4" POLYETHYLENE WITH #4 BARE COPPER WIRE IN TRENCH  
 UNIT DUCT, 3-600V EPR #4 1-1/4" POLYETHYLENE WITH #4 TROPICAL 4" DIA. PVC IN BARRIER WALL  
 UNIT DUCT, 3-600V LPR #4 1-1/4" POLYETHYLENE WITH #4 BARE GROUND CONDUCTOR IN TRENCH  
 UNIT DUCT, 3-600V EPR #4 1-1/4" POLYETHYLENE WITH #4 GROUND IN 4" DIA. PVC ENCASED IN CONCRETE

FOR INFORMATION PURPOSES ONLY

**ARCHIVED**  
 BY: *KJ*  
 DATE: *11-18-98*  
 LOC #: *L815-1*

FILE NO.	SECTION	COUNT	DATE	BY
1010112-6	9110102.5(027.2) & 1517(4-3)			



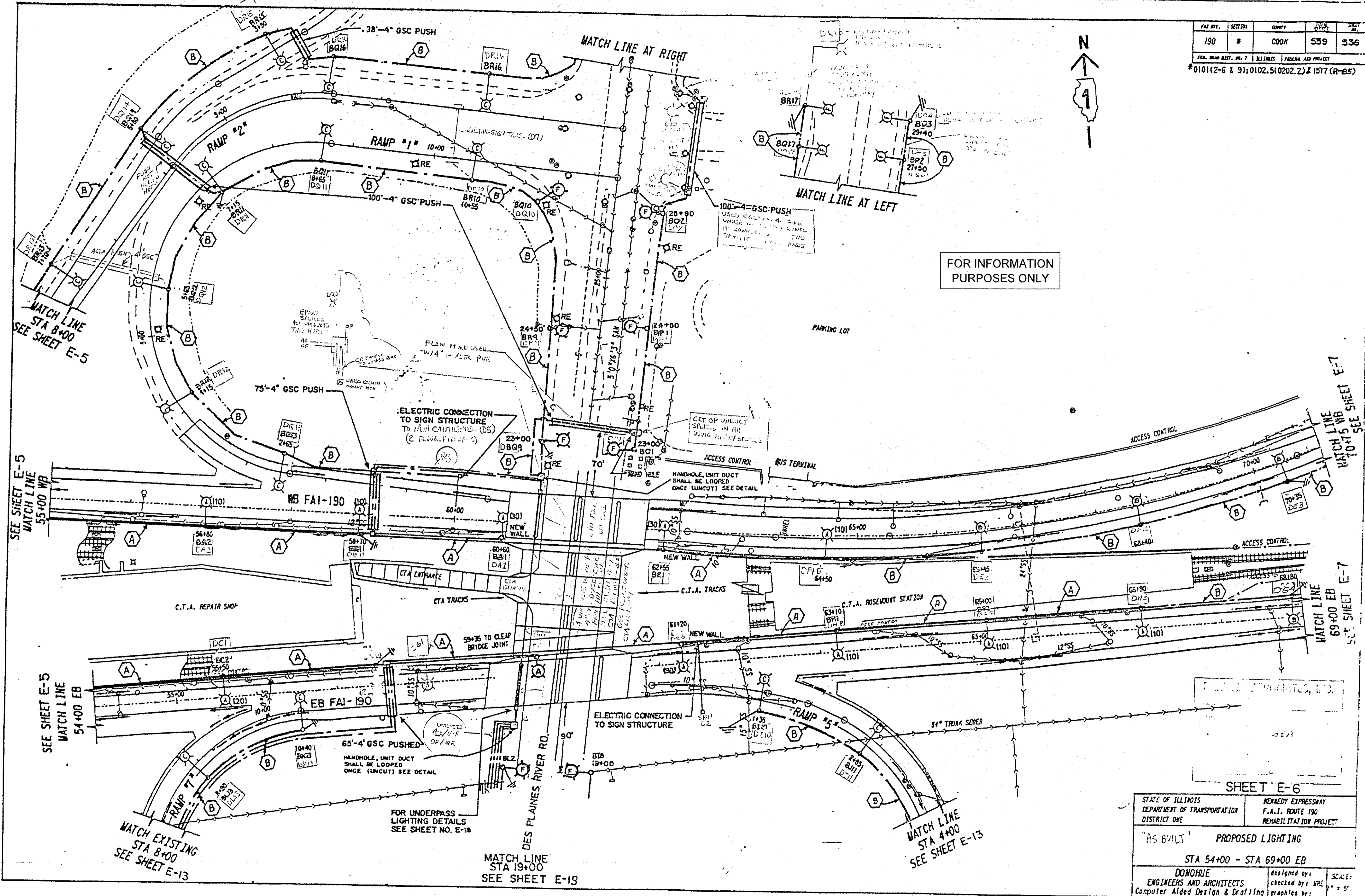
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE		KENNEDY EXPRESSWAY F.A.I. ROUTE 190 RECONSTRUCTION PROJECT	
<b>"AS BUILT" PROPOSED LIGHTING</b>			
STA 39+00 - STA 54+00 EB			
DONOHUE ENGINEERS AND ARCHITECTS for Aided Design & Drafting		designed by: checked by: WPC approved by:	REVISED 10/16/18



SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 PLAN NOTE BOOK NO.: \_\_\_\_\_  
 CADD FILE NAME: \_\_\_\_\_  
 SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 PROFILE NOTE BOOK NO.: \_\_\_\_\_  
 CADD FILE NAME: \_\_\_\_\_

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 Rosemont, Illinois 60018  
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FAI R/L	SECTION	COUNTY	AREA	SHEET NO.
190	#	COOK	559	336
FED. ROAD DIST. NO. 7 ILLINOIS FEDERAL AID PROJECT				
#0101(2-6 & 9); 0102.5(0202.2) & 1577 (R-25)				



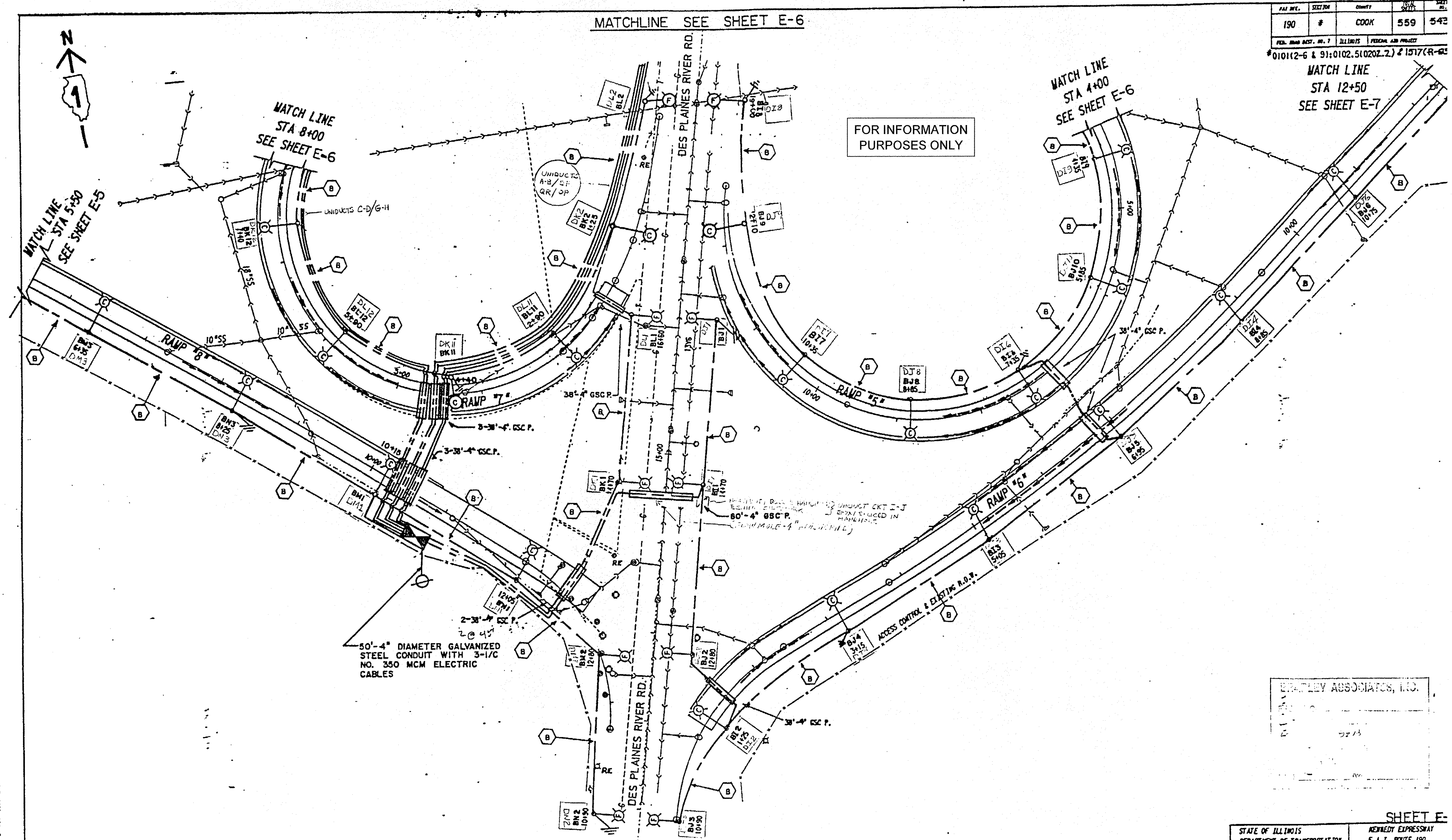
FOR INFORMATION PURPOSES ONLY

**SHEET E-6**

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENNEDY EXPRESSWAY F.A.I. ROUTE 190 REHABILITATION PROJECT
"AS BUILT" PROPOSED LIGHTING	
STA 54+00 - STA 69+00 EB	
DONOHUE ENGINEERS AND ARCHITECTS Computer Aided Design & Drafting	designed by: _____ checked by: WRC graphics by: _____
SCALE: 1" = 5'	
REVISED 10/16/82	

FILE NAME = N:\ROSEMONT\12012\Mech\1-0091_REC_02.dwg	USER NAME = e.jensen	DESIGNED - AJD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RECORD DRAWING (2 OF 3) EXISTING LIGHTING SYSTEM</b>	F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 49		
PLOT SCALE = 1"	PLOT DATE = 10/17/2016	DRAWN - RJJ	REVISED -			SCALE: N.T.S.	SHEET NO. 2 OF 3 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61D25		
		CHECKED - AJD	REVISED -			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT : M-40031677						
		DATE -	REVISED -									

FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	#	COOK	559	542
FED. ROAD DIST. NO. 7 ILLINOIS FEDERAL AID PROJECT				
*01012-6 & 91:0102.5(0202.2) & 1517(R-02)				



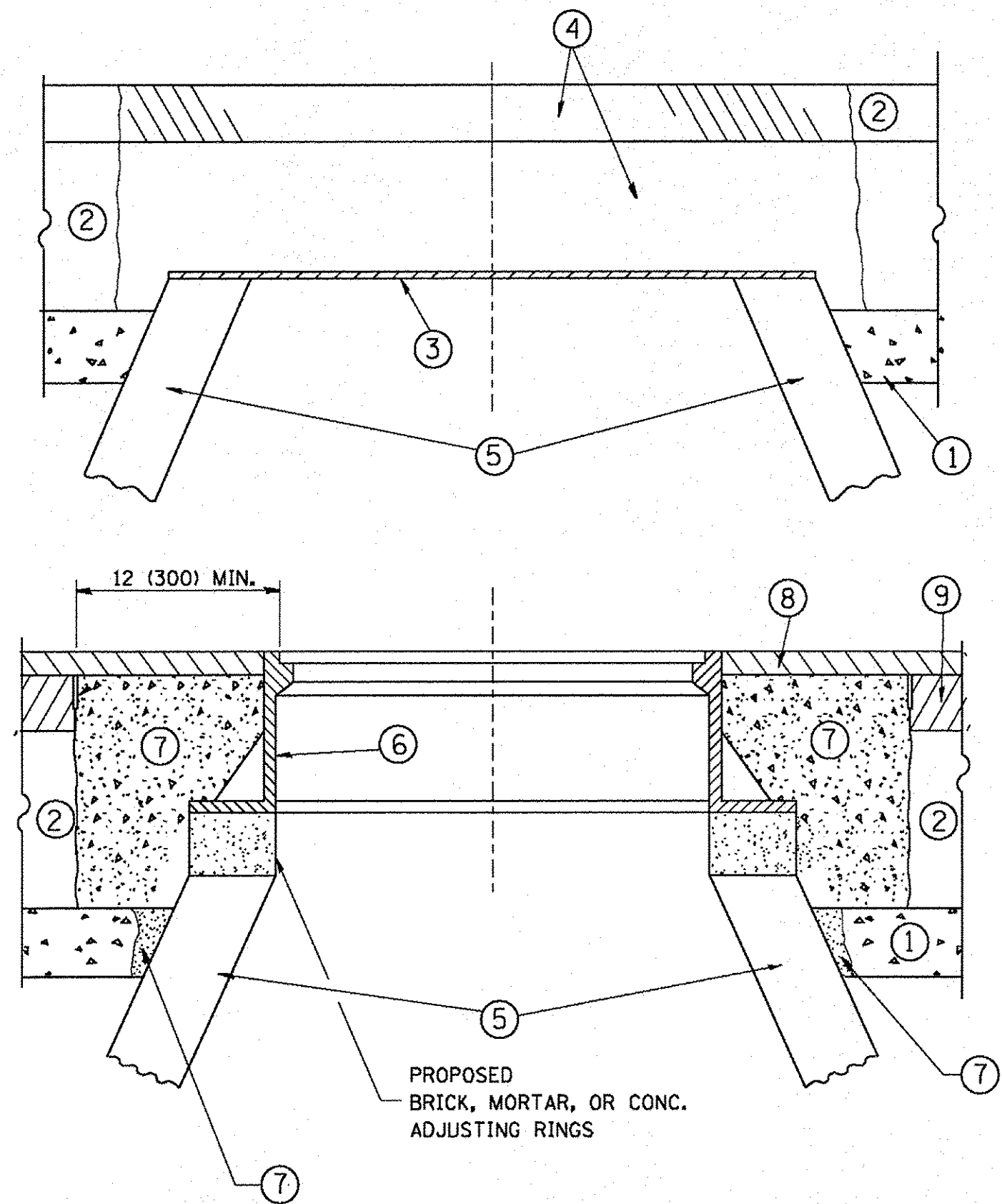
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 BASEMAP CHECKED BY DATE  
 GRADES CHECKED BY DATE  
 ELEV. OF WAY CHECKED BY DATE  
 CADD FILE NAME NO.  
 PLAN SURVEYED BY DATE  
 NOTE BOOK NO.  
 CHRISTOPHER B. BURKE ENGINEERING LTD.  
 8975 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (647) 922-0800  
 CB  
 SURVEYED BY DATE  
 CHECKED BY DATE  
 NOTATIONS OK'D NO.

PLOT DATE: 02/01/12 01:21  
 PLOT FOR: 11/01/11  
 PLOT BY: LUCIA

BRADLEY ASSOCIATES, INC.  
 7213

**SHEET E-**

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE	KENEDY EXPRESSWAY F.A.T. ROUTE 190 REHABILITATION PROJECT
<b>"AS BUILT" PROPOSED LIGHTING</b>	
<b>SOUTH DES PLAINES RAMPS</b>	
DONOHUE ENGINEERS AND ARCHITECTS Computer Aided Design & Drafting	
designed by: MRC	checked by: MRC
graphics by: MRC	
REVISED 10/16/81	



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

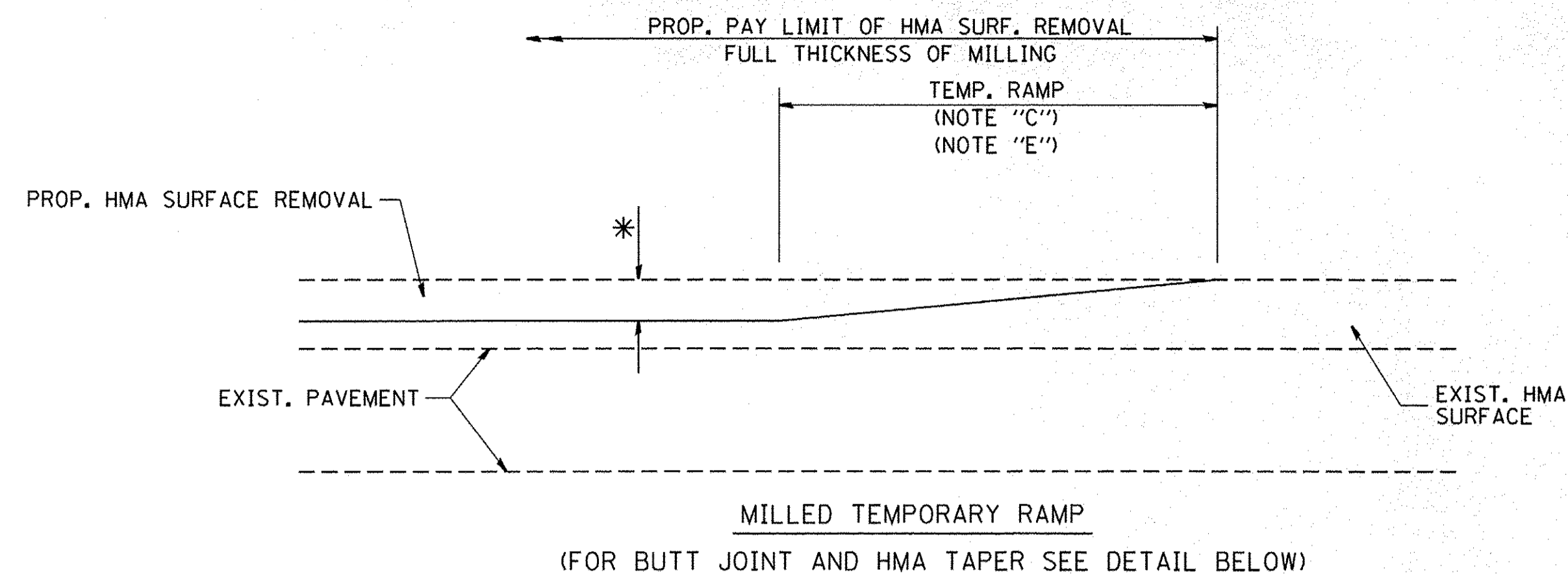
THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

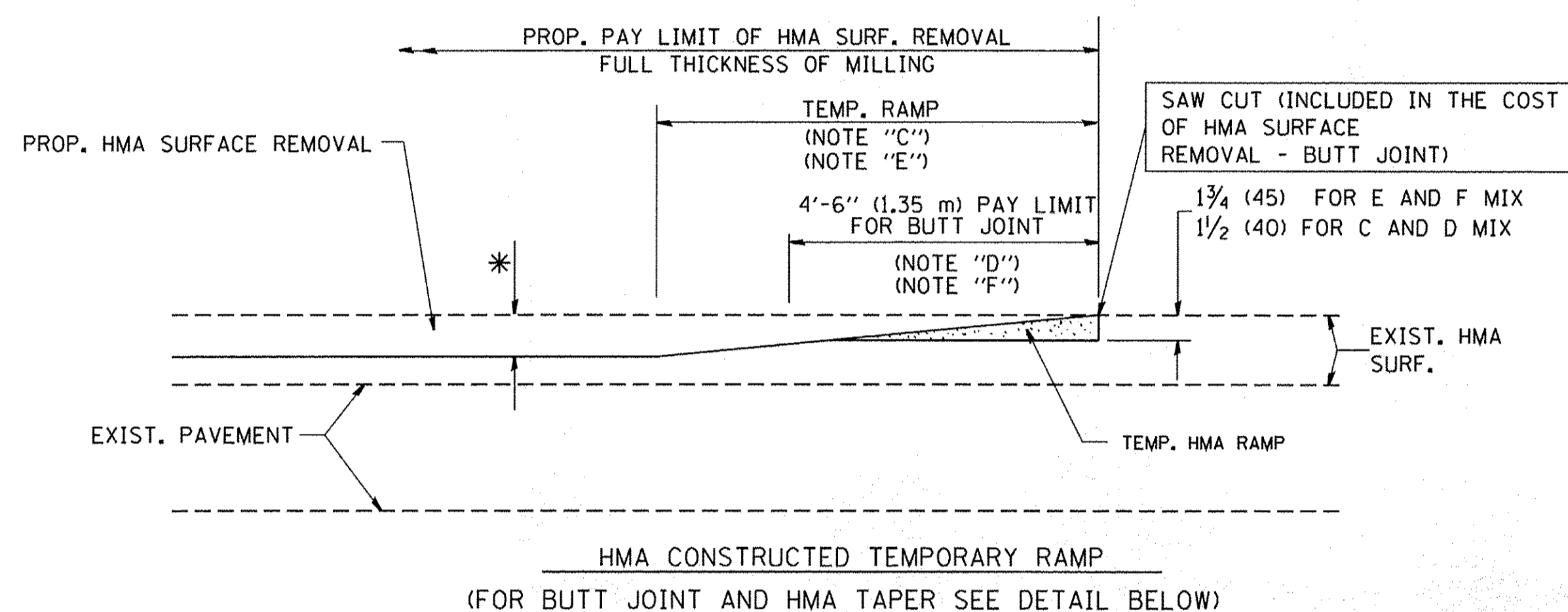
**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>	F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 51		
		DRAWN -	REVISED - R. BORO 01-01-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT: M-4003(677)		
		CHECKED -	REVISED - R. BORO 03-09-11									
		DATE - 10-25-94	REVISED - R. BORO 12-06-11									

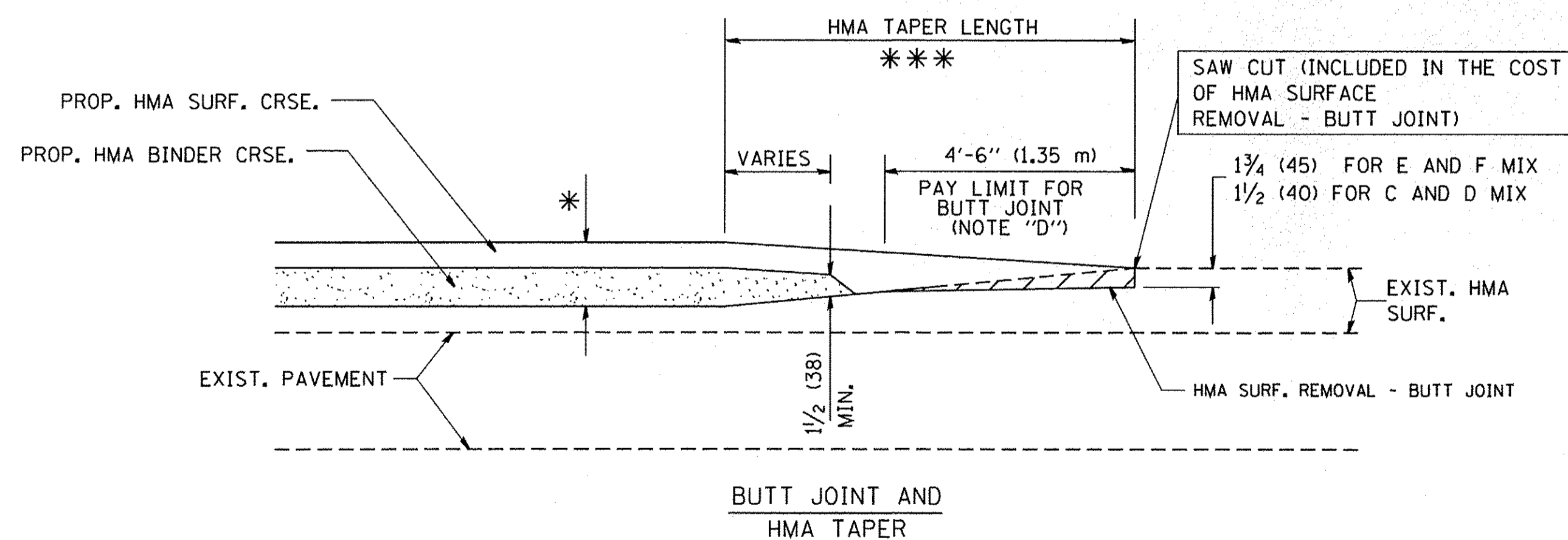


OPTION 1

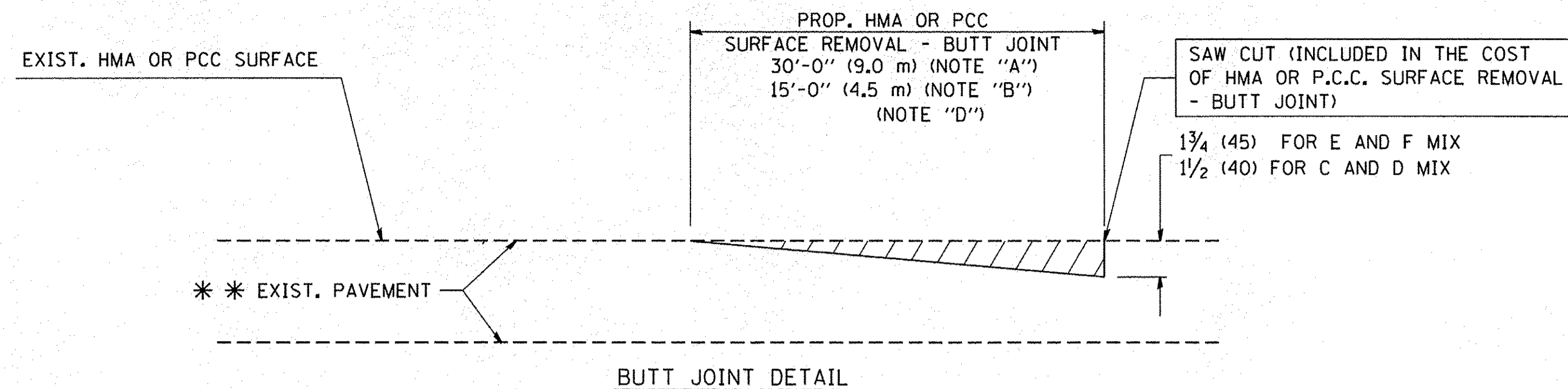


OPTION 2

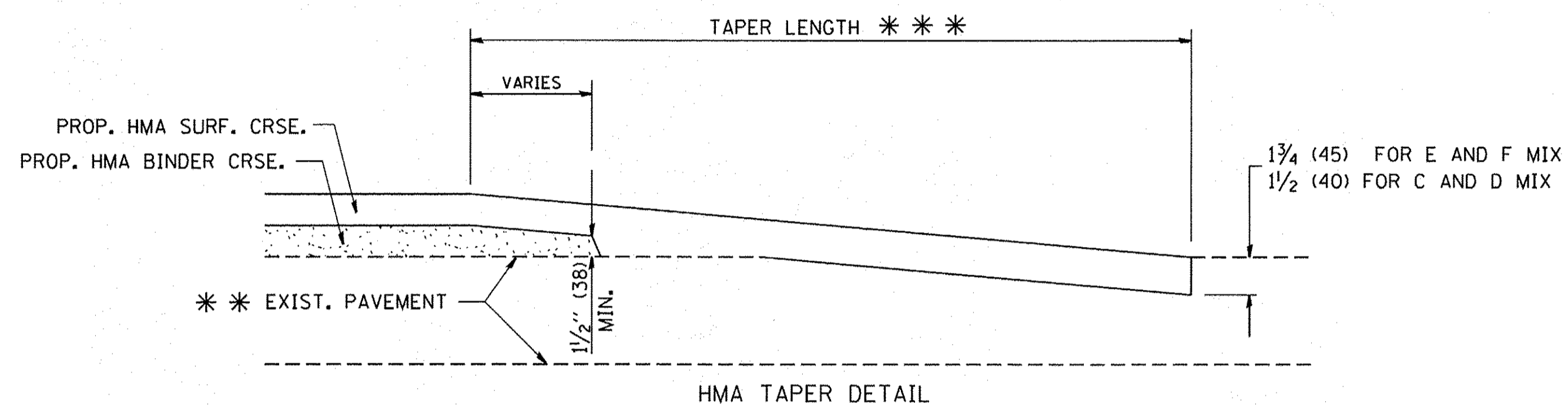
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

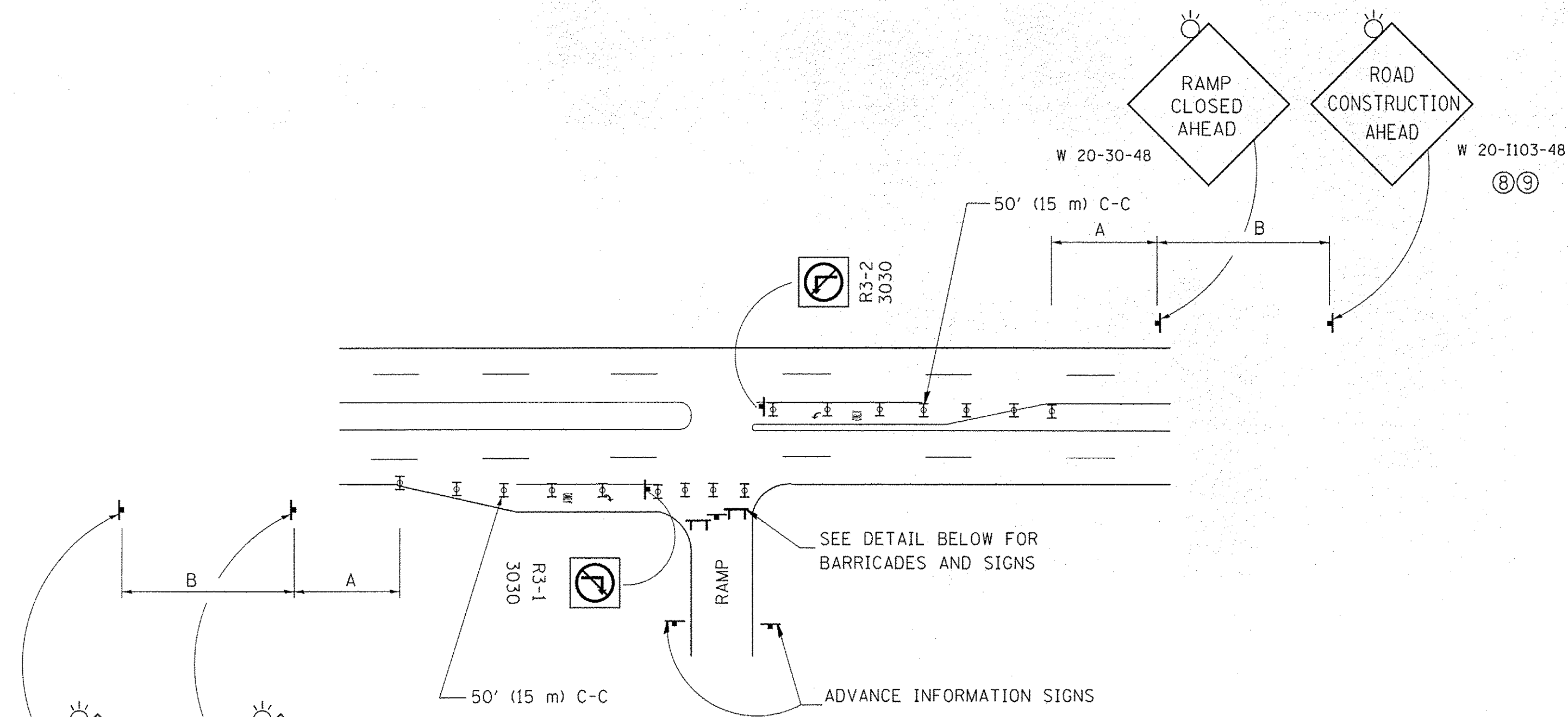
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	8522	13-00032-00-TL	COOK	61	52
STA. TO STA.		BD400-05 BD32		CONTRACT NO. 61D25		
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT						

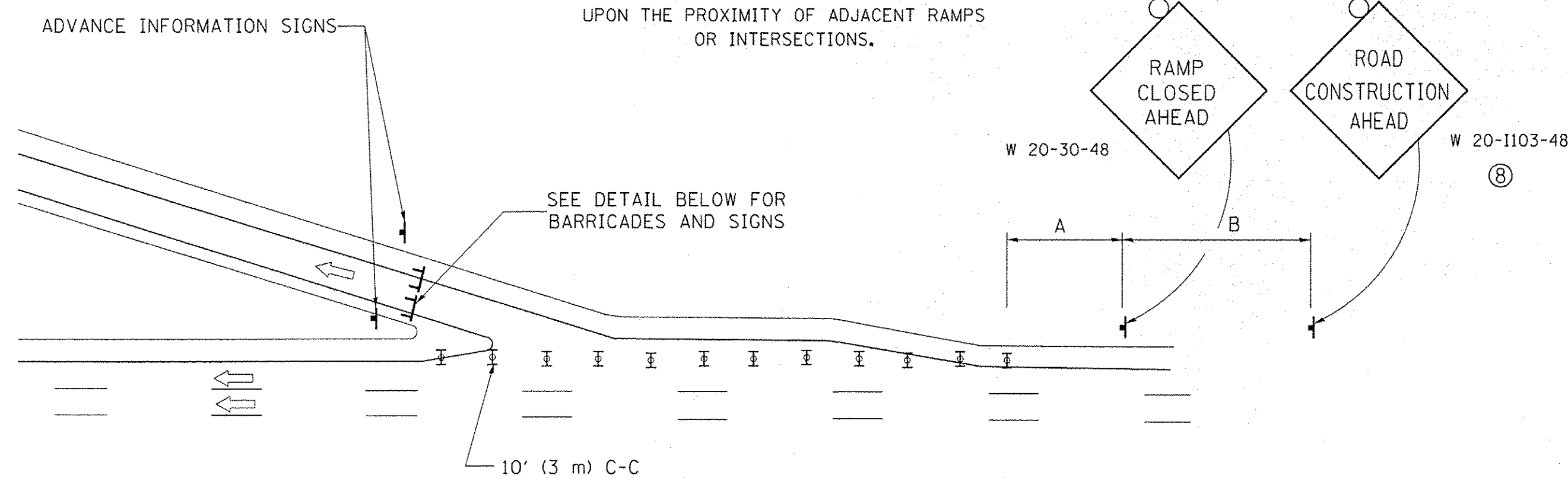
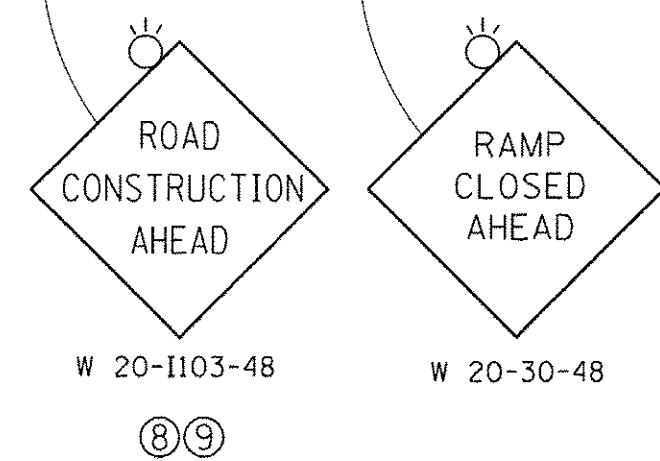


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

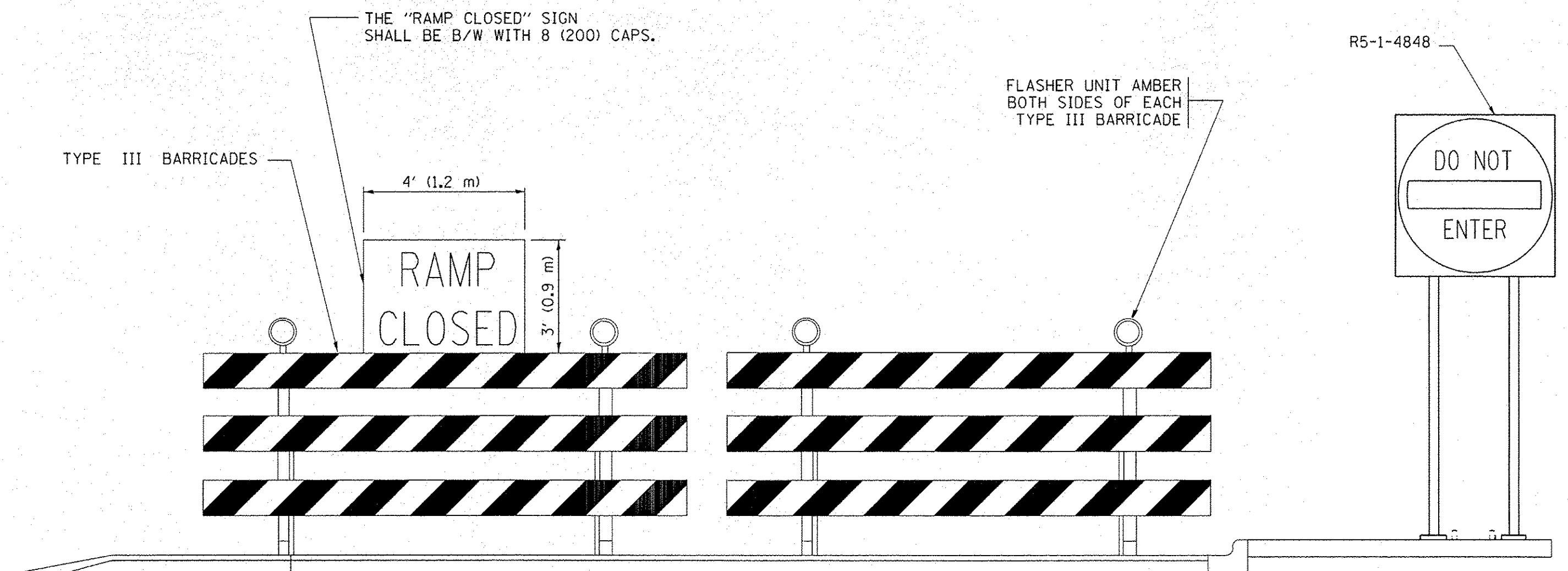
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

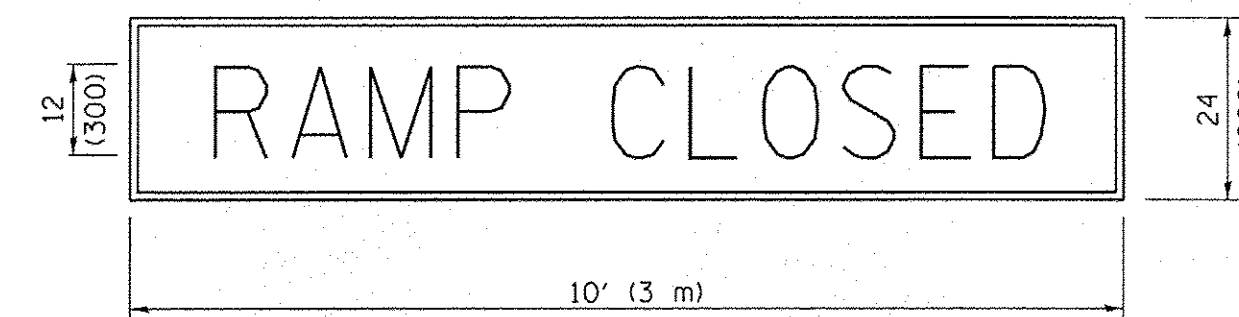
**SYMBOLS**

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



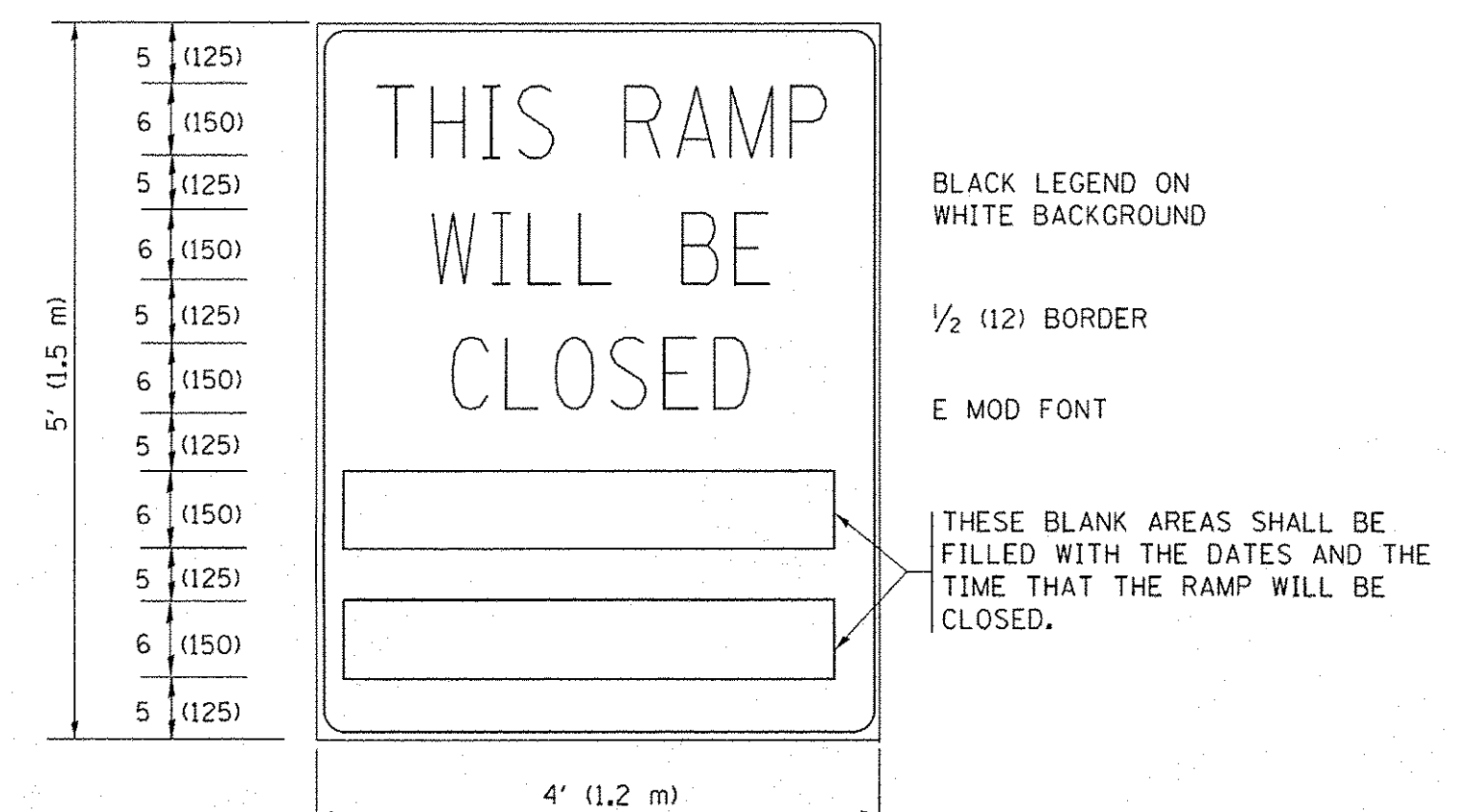
**DETAIL FOR REQUIRED BARRICADES & SIGNS**

**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER  
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND  
1/2 (12) BORDER  
E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

**GENERAL NOTES:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

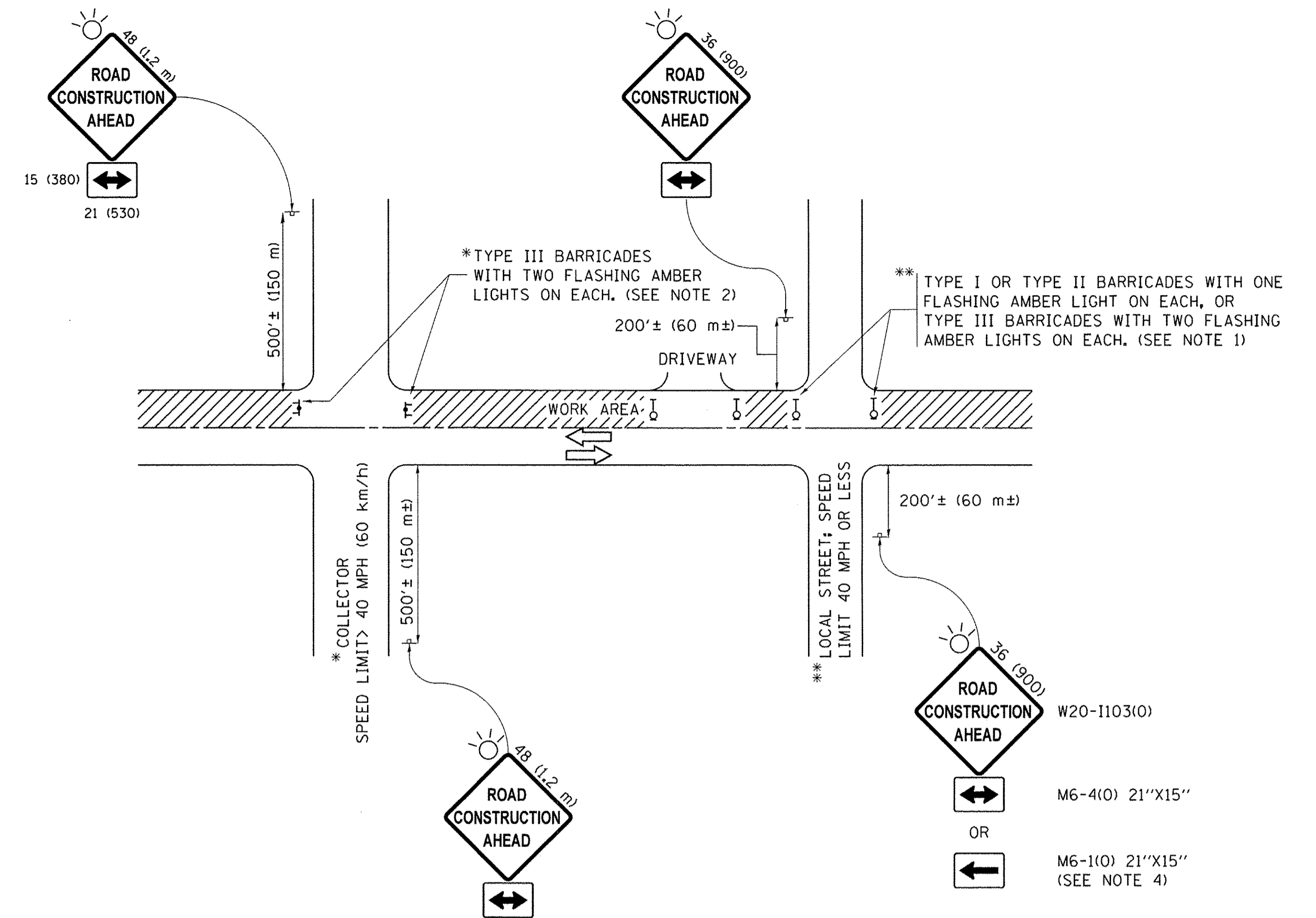
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT SCALE = 50.000' / 1"	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ENTRANCE AND EXIT RAMP CLOSURE DETAILS</b>		F.A.L. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 53
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 61D25		

F.A.L. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 53
TC-08		CONTRACT NO. 61D25		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT: M-4003(677)				



**NOTES:**

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

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

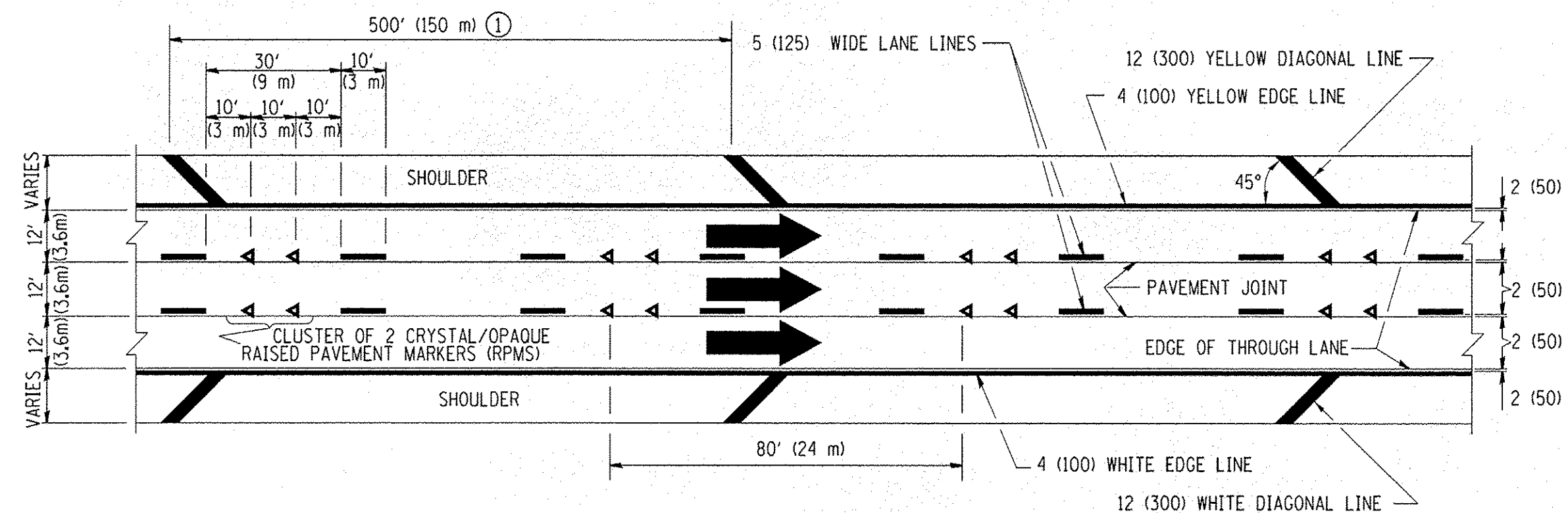
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	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

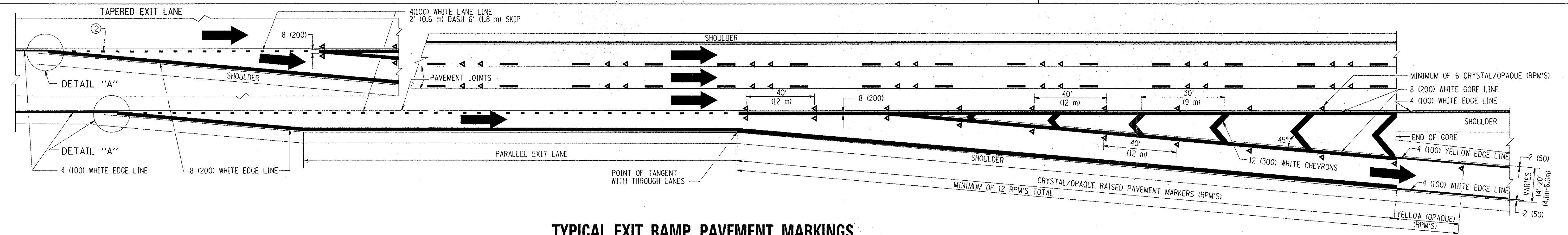
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>TC-10</b>		CONTRACT NO. 61025		
ILLINOIS FED. AID PROJECT: M-4003(677)				

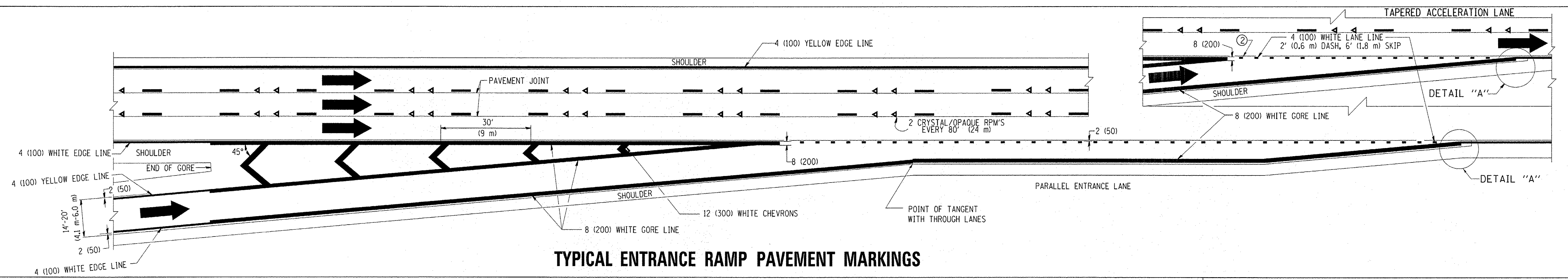


**TYPICAL EDGE LINES & LANE LINES**

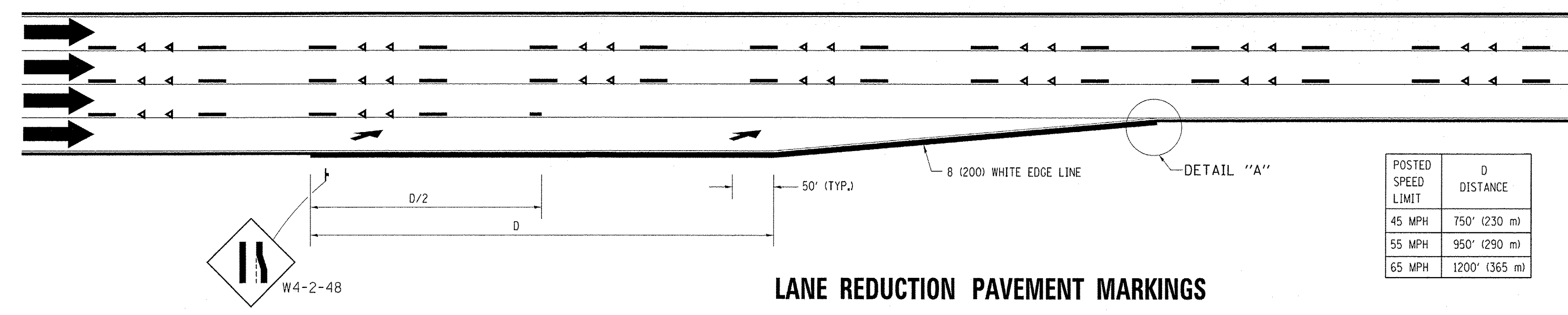
- PAVEMENT MARKING MATERIALS**
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
  2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
  3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



**TYPICAL EXIT RAMP PAVEMENT MARKINGS**

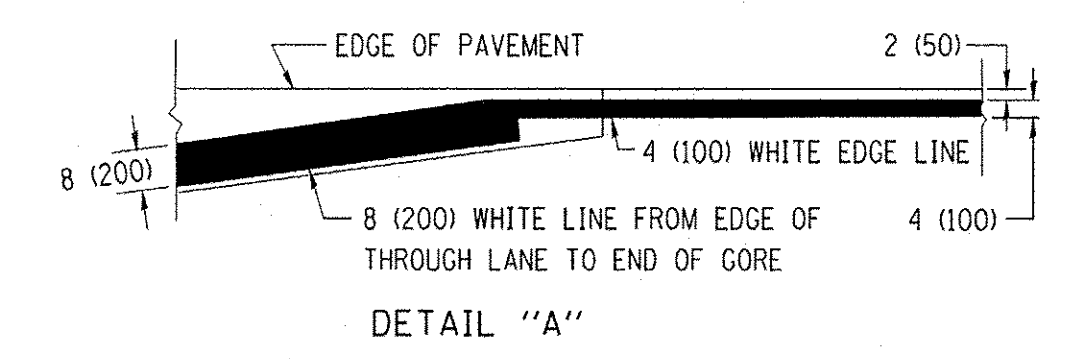


**TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS**

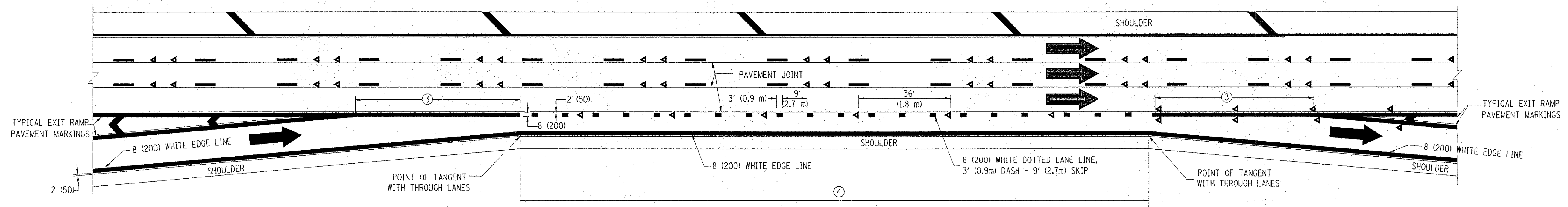


**LANE REDUCTION PAVEMENT MARKINGS**

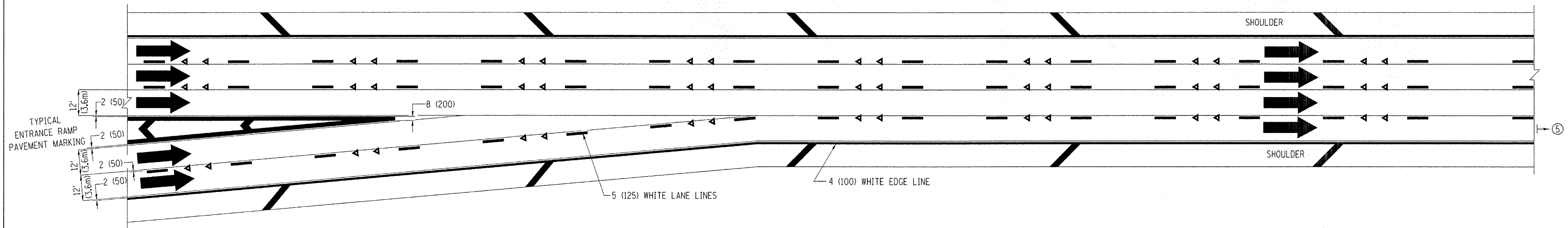
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



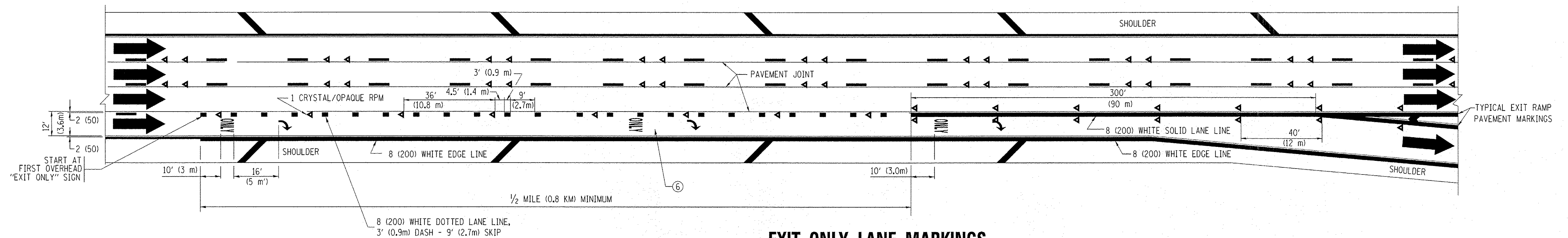
- NOTES:**
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
  - ② 4" (2" DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



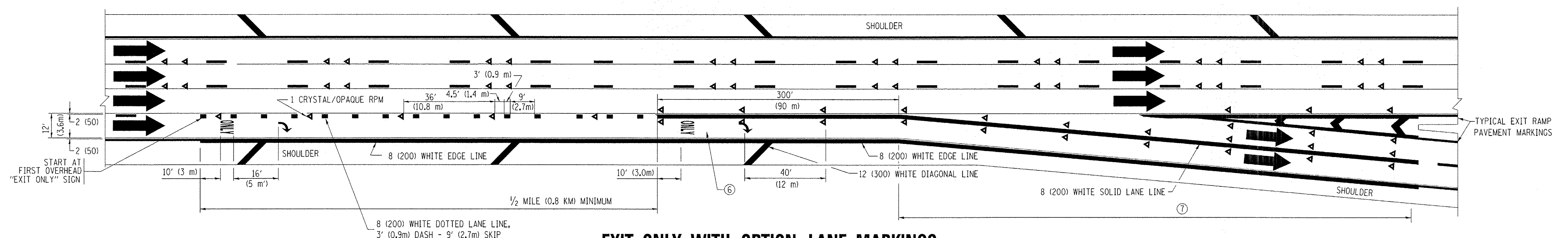
**AUXILIARY LANE MARKINGS**



**TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS**



**EXIT ONLY LANE MARKINGS**

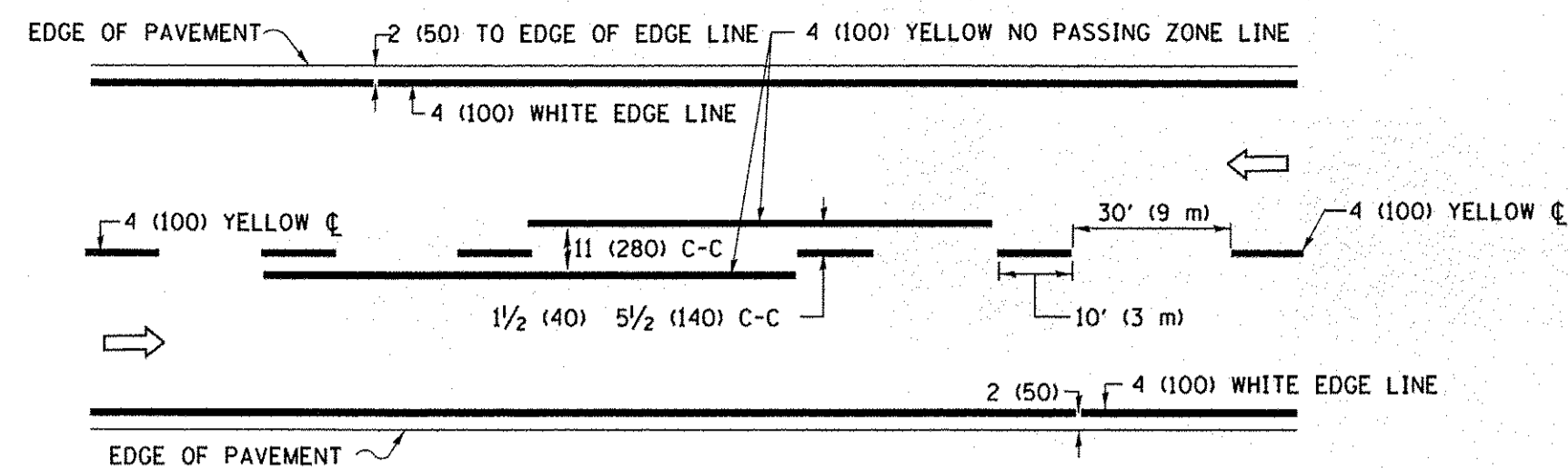


**EXIT ONLY WITH OPTION LANE MARKINGS**

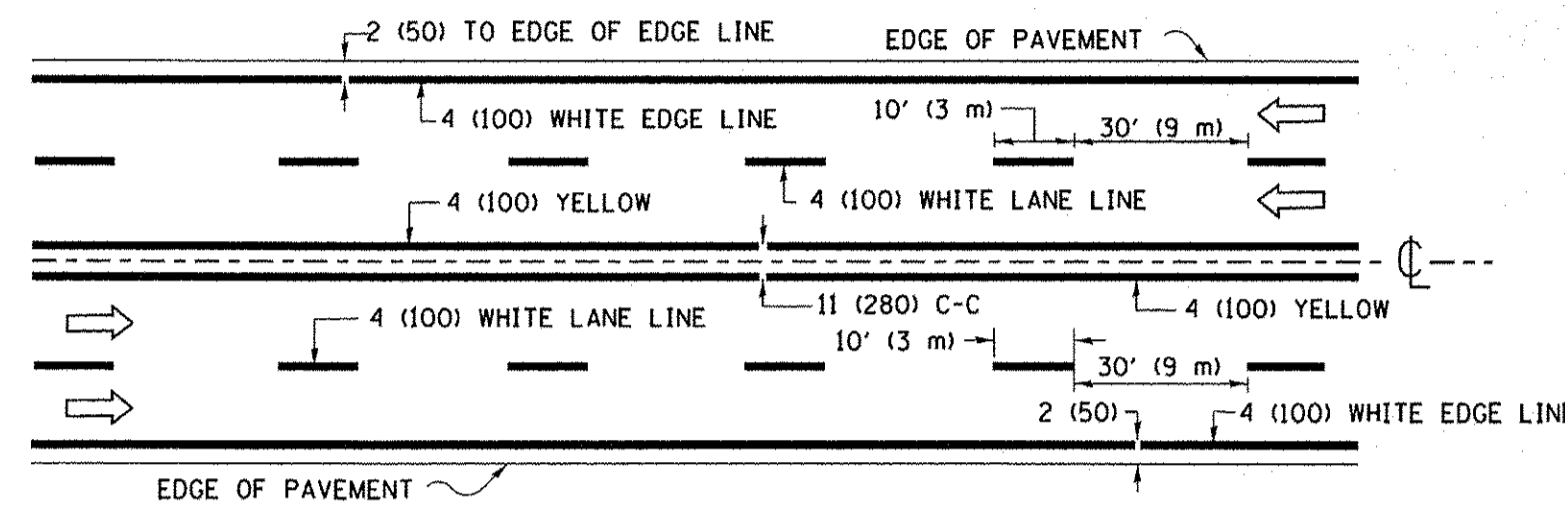
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
  - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME =	USER NAME = lveys	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS</b>			F.A.L. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 56
DRAWN -	CHECKED -	DATE - 01-90	REVISED - J.A.F. 02-06		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	<b>TC-12</b>		CONTRACT NO. 61D25	
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PLOT DATE = 1/22/2010			REVISED - S.P.B. 01-10									

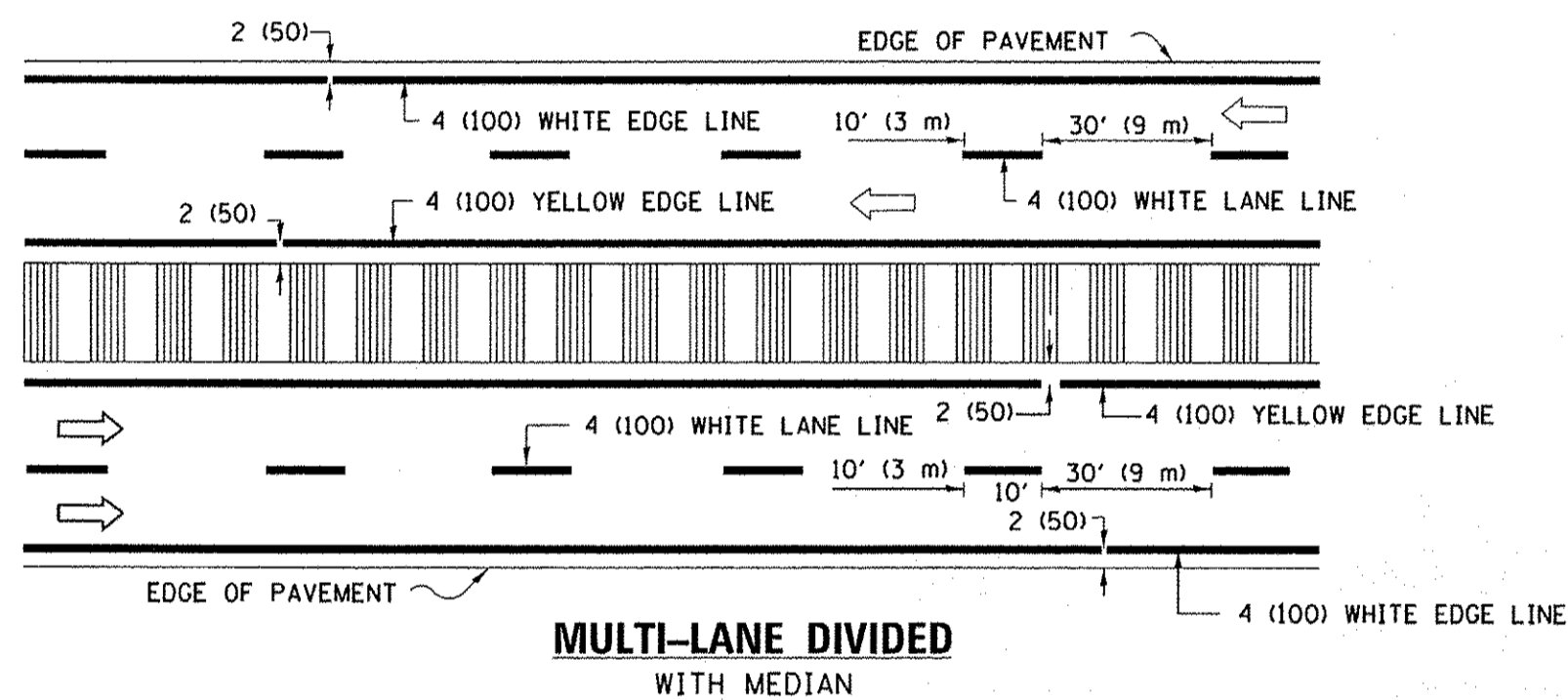




**2-LANE ROADWAY**

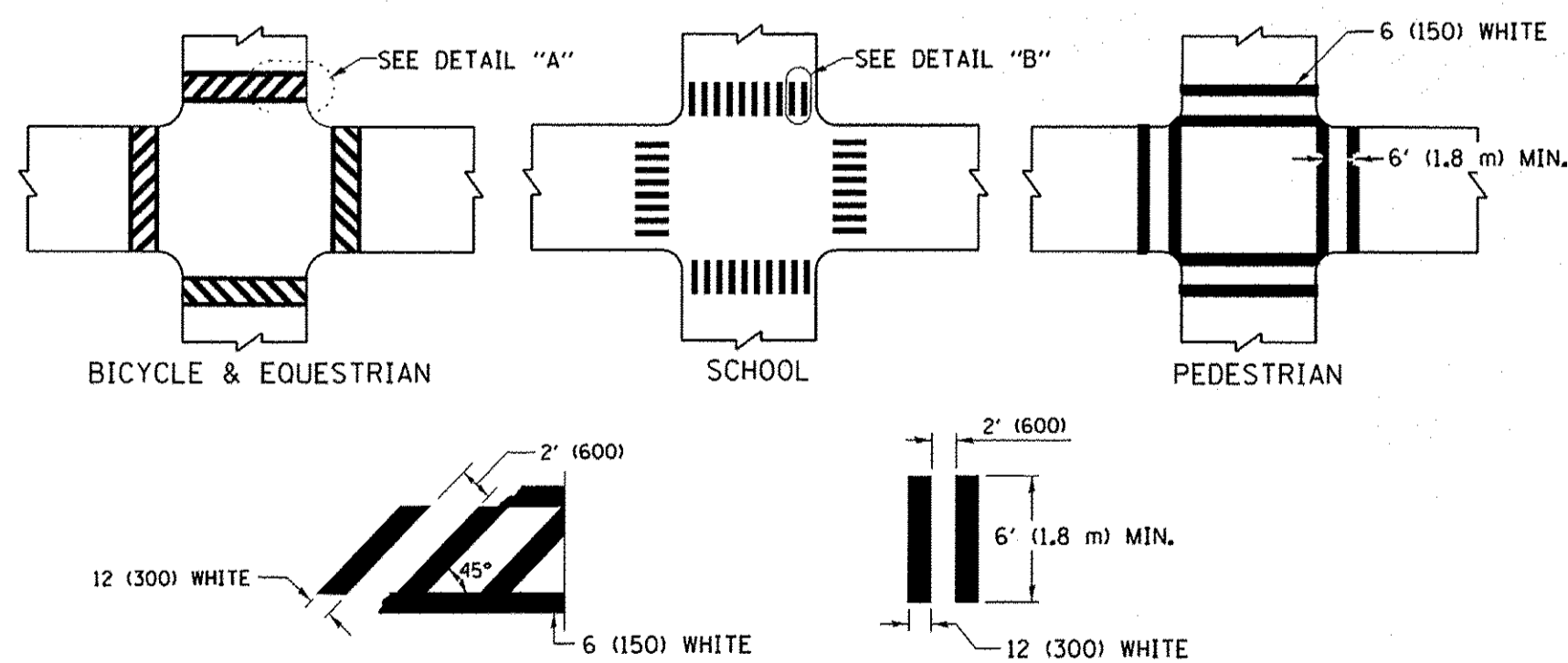


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

**TYPICAL LANE AND EDGE LINE MARKING**

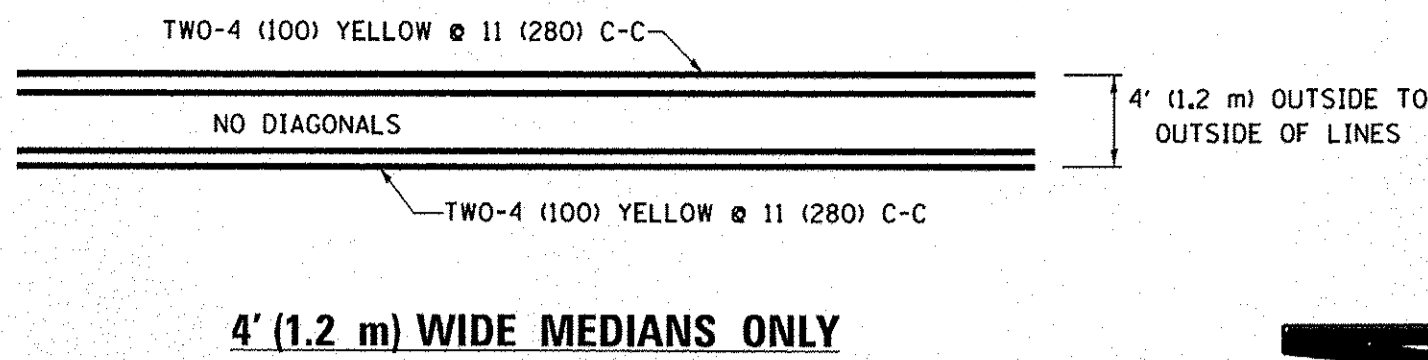


**DETAIL "A"**

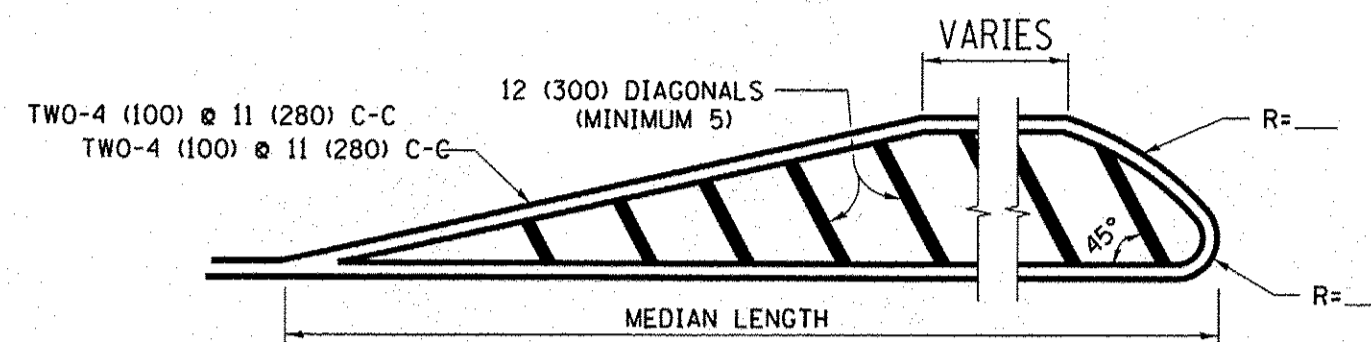
**DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

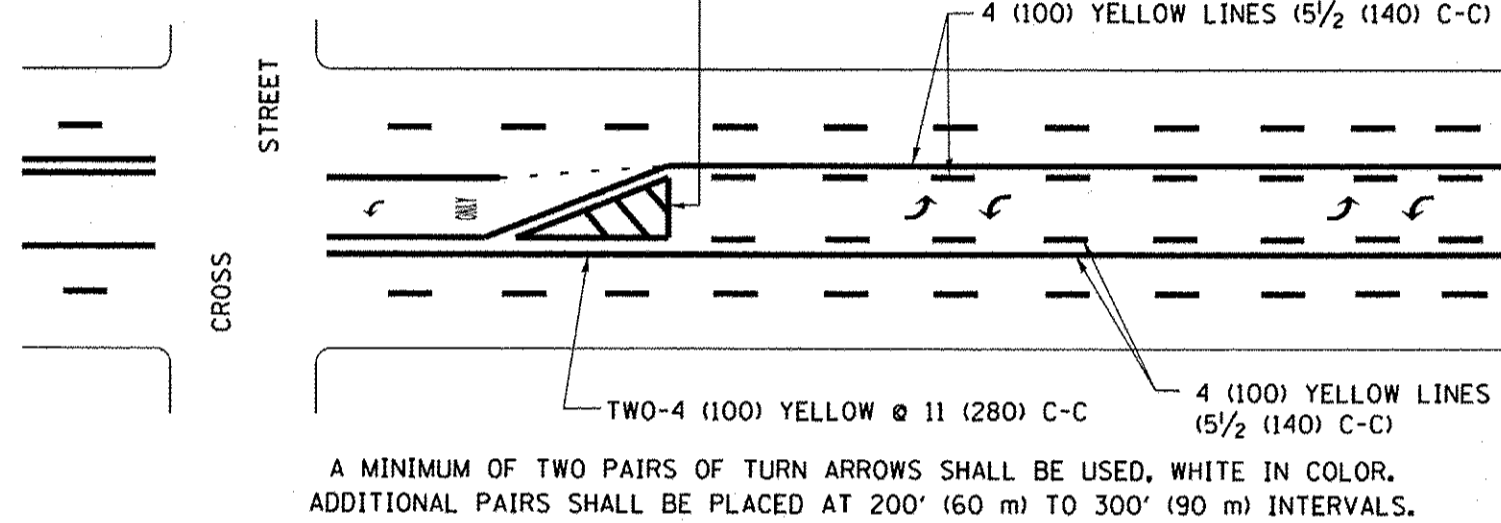


**4' (1.2 m) WIDE MEDIANS ONLY**

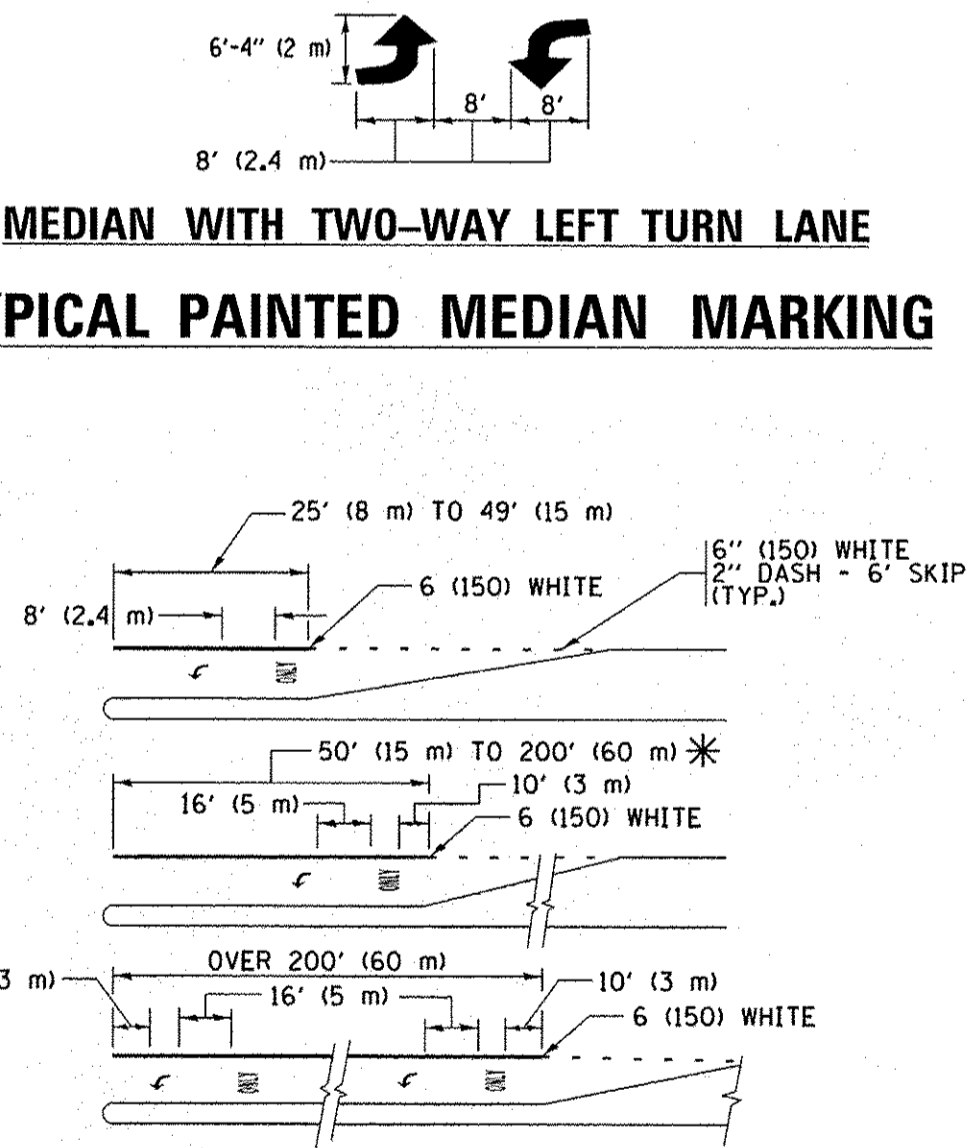


**MEDIANS OVER 4' (1.2 m) WIDE**

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



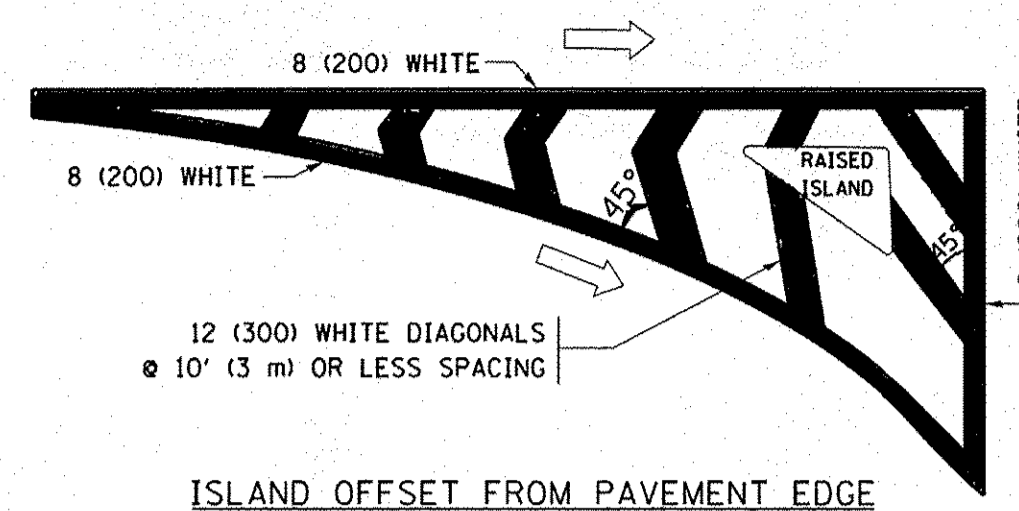
**MEDIAN WITH TWO-WAY LEFT TURN LANE  
TYPICAL PAINTED MEDIAN MARKING**



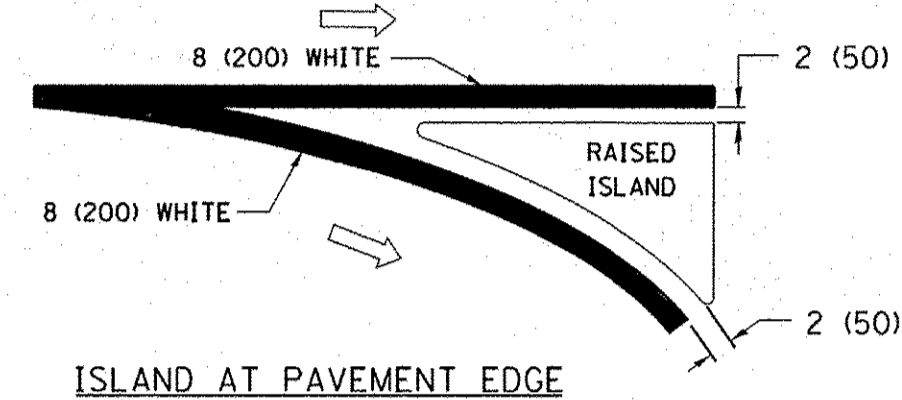
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

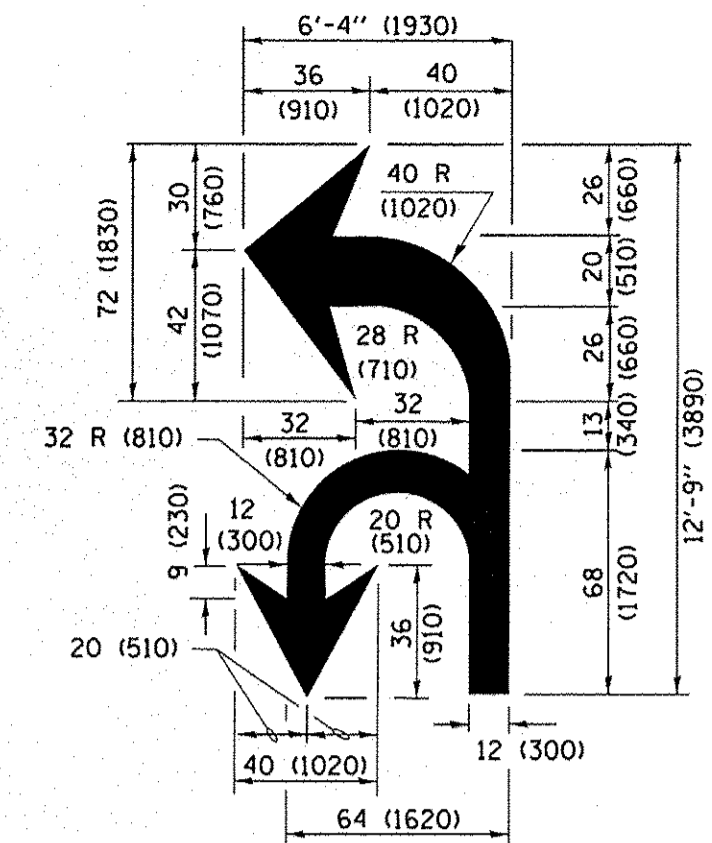


**ISLAND OFFSET FROM PAVEMENT EDGE**

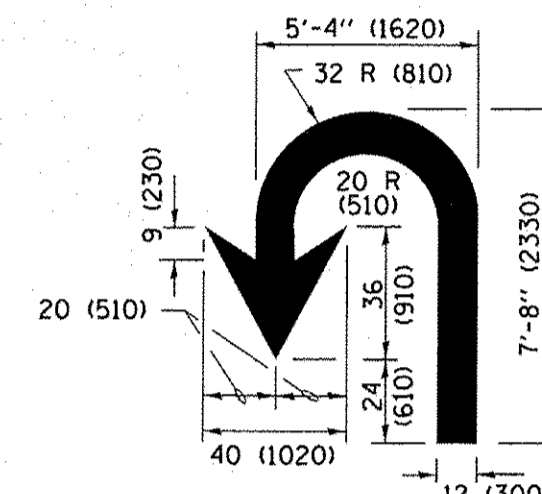


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

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

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

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

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

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

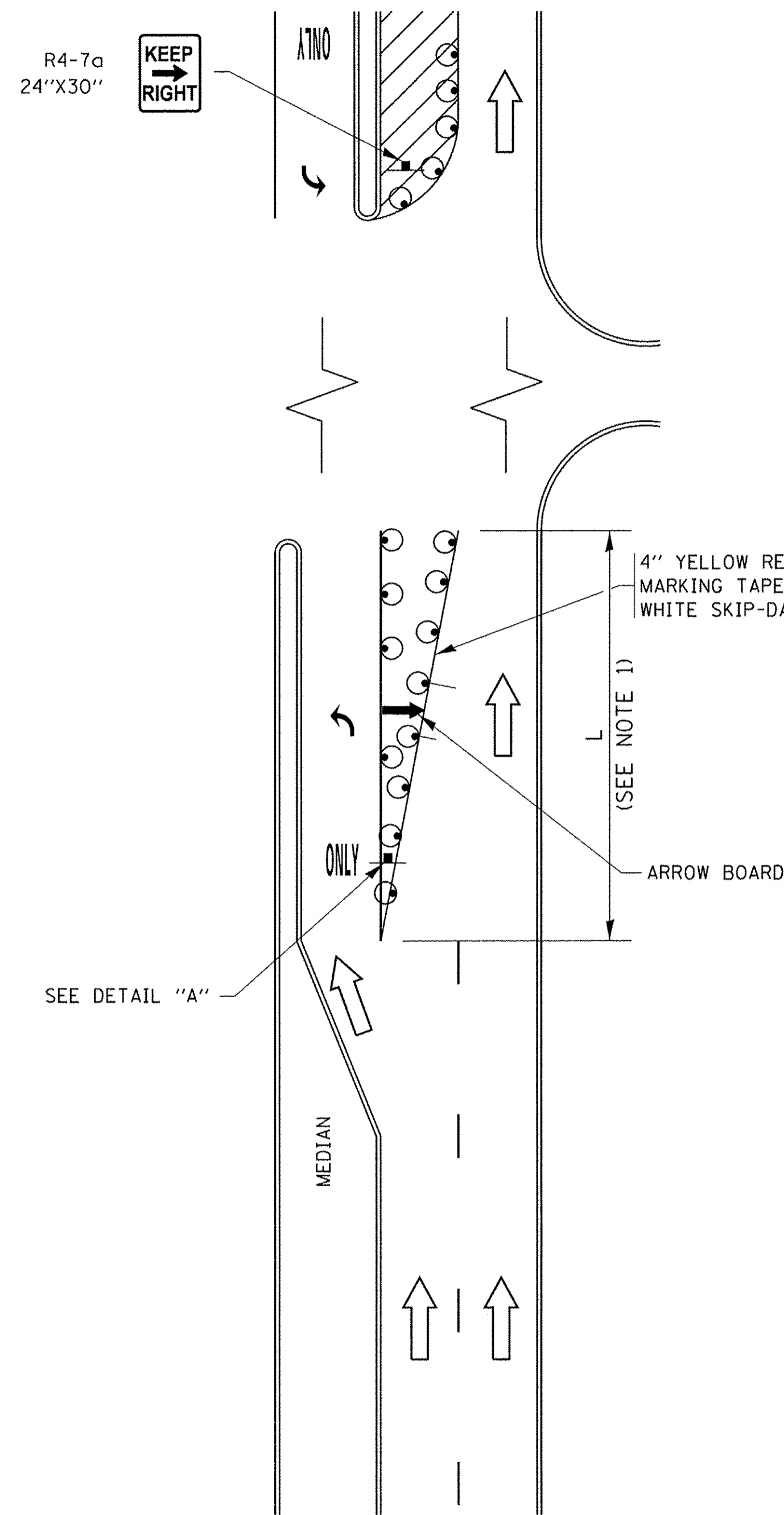
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	PLOT DATE = 4/13/2016		REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>TYPICAL PAVEMENT MARKINGS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

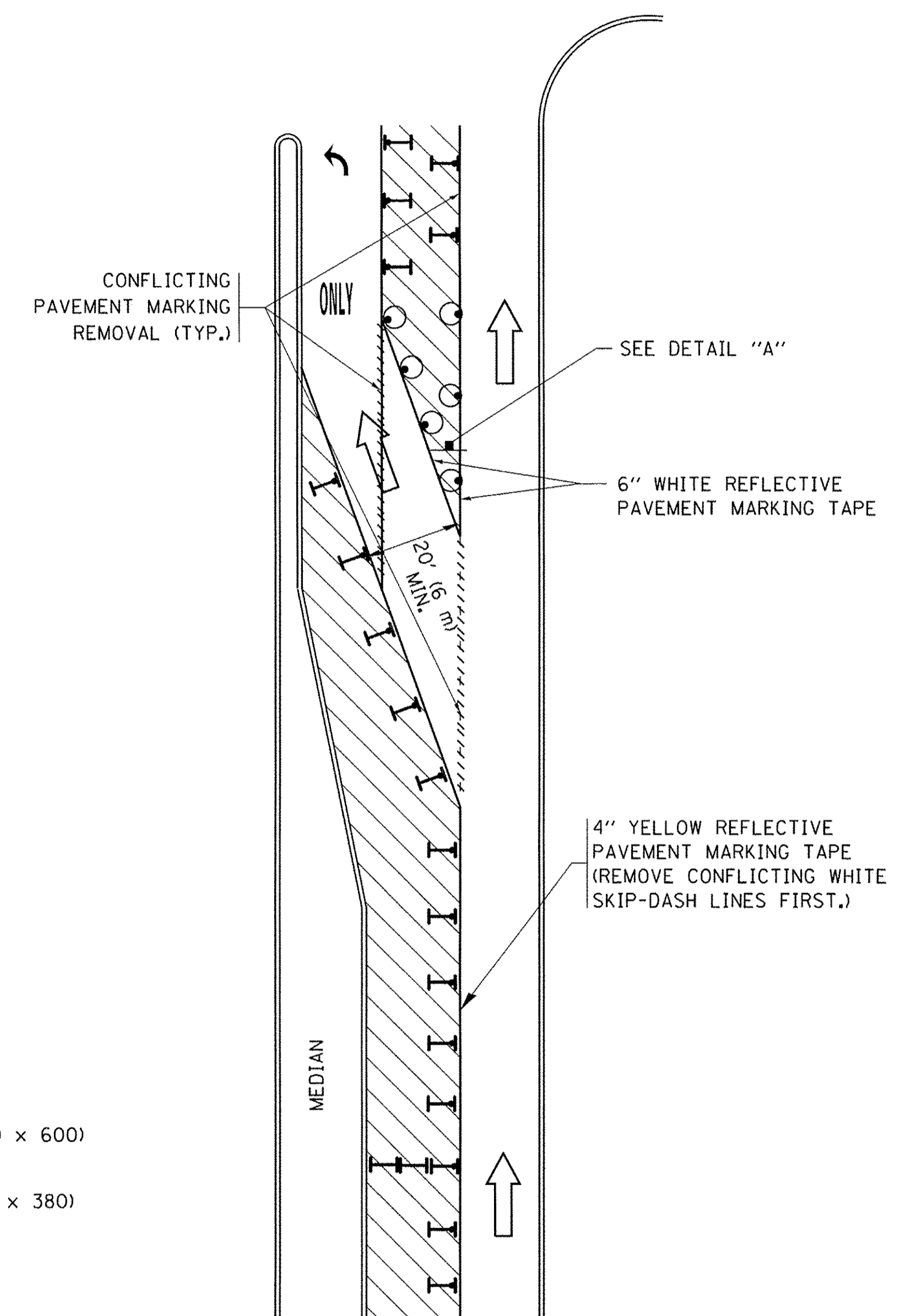
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8522	13-00032-00-TL	COOK	61	57
<b>TC-13</b>			<b>CONTRACT NO. 61025</b>	
ILLINOIS FED. AID PROJECT: M-4003(677)				

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



**FIGURE 1**

# TURN BAY ENTRANCE WITHIN A LANE CLOSURE



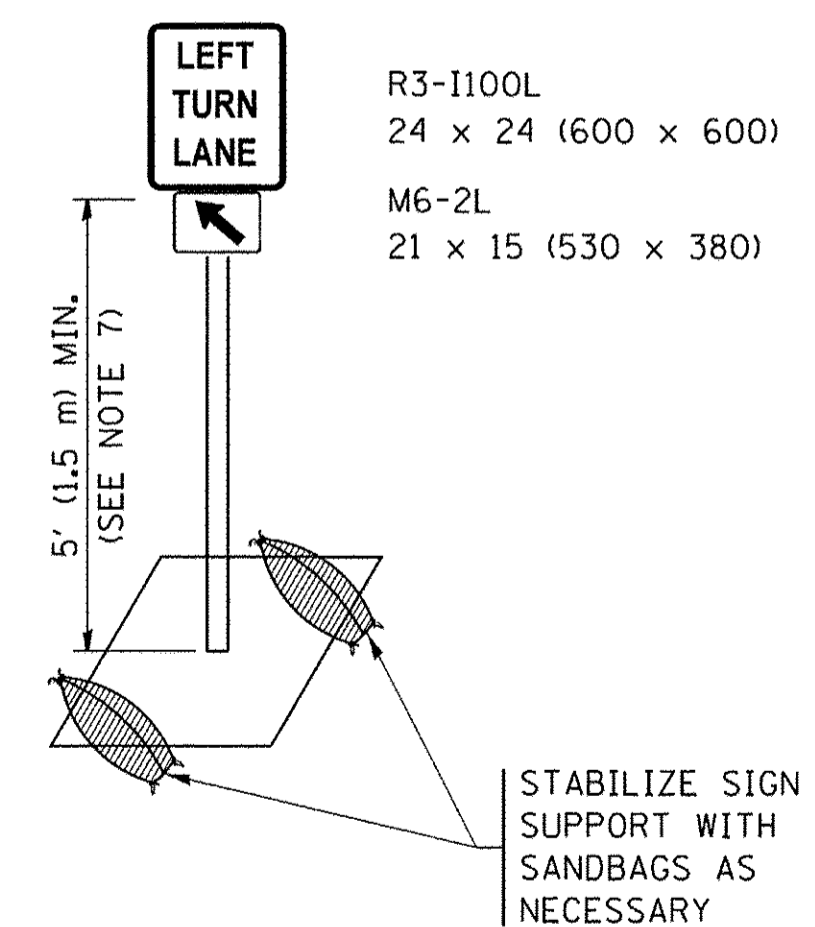
**FIGURE 2**

### LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

### NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
- B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



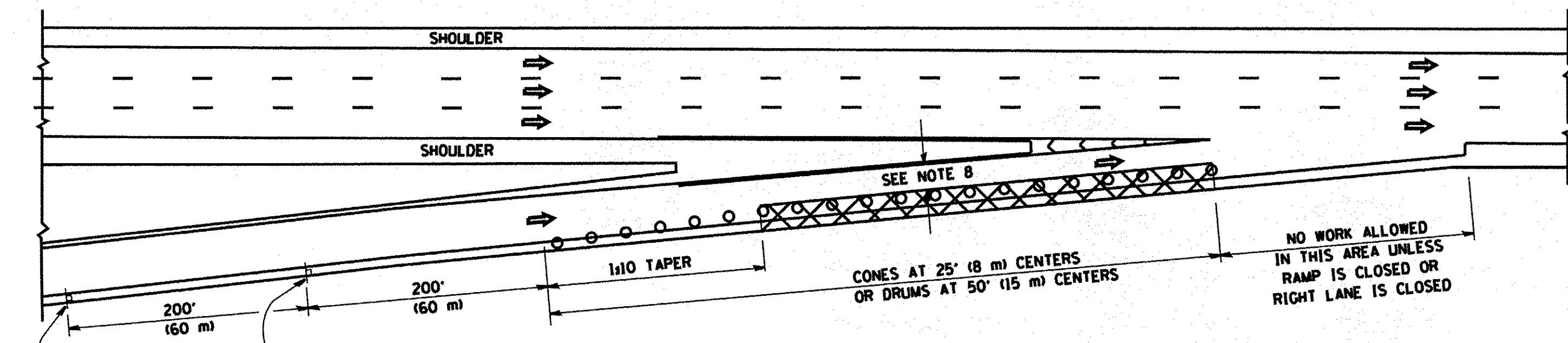
**DETAIL A**

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

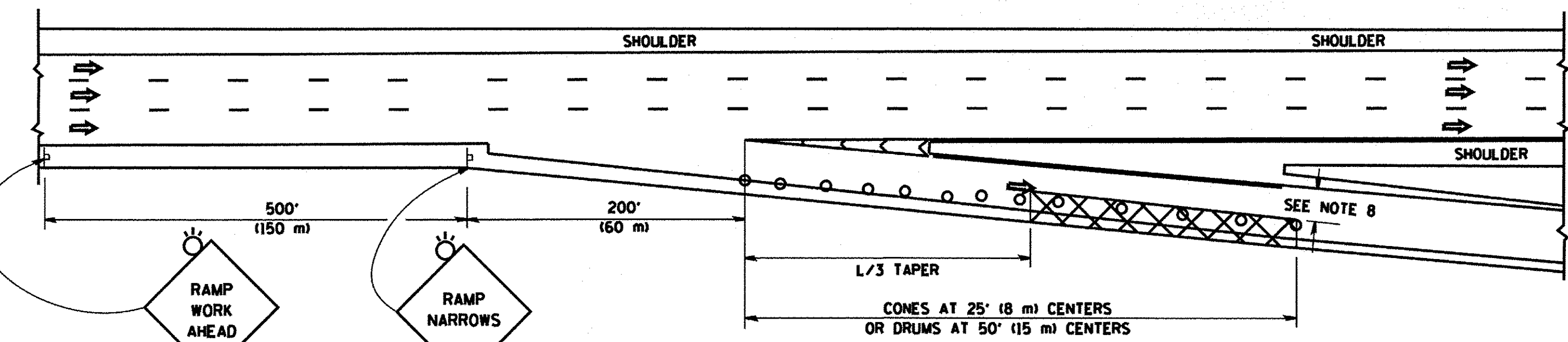
FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		8522	13-00032-00-TL	COOK	61	58			
	PLOT SCALE = 50.0000' / in.	REVISED - T. RAMMACHER 01-06-00	REVISED -		TC-14			CONTRACT NO. 61D25				

ILLINOIS FED. AID PROJECT: M-4003(677)

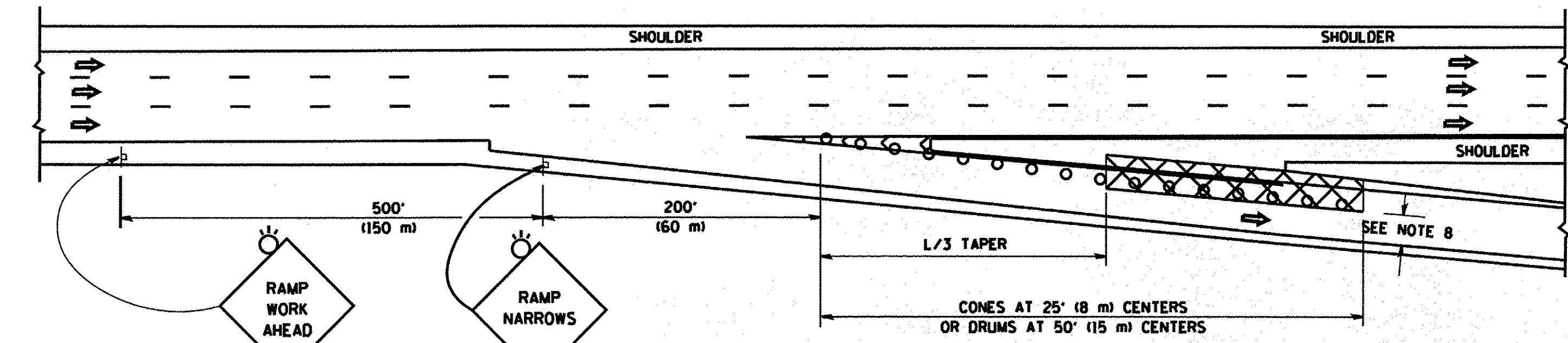
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

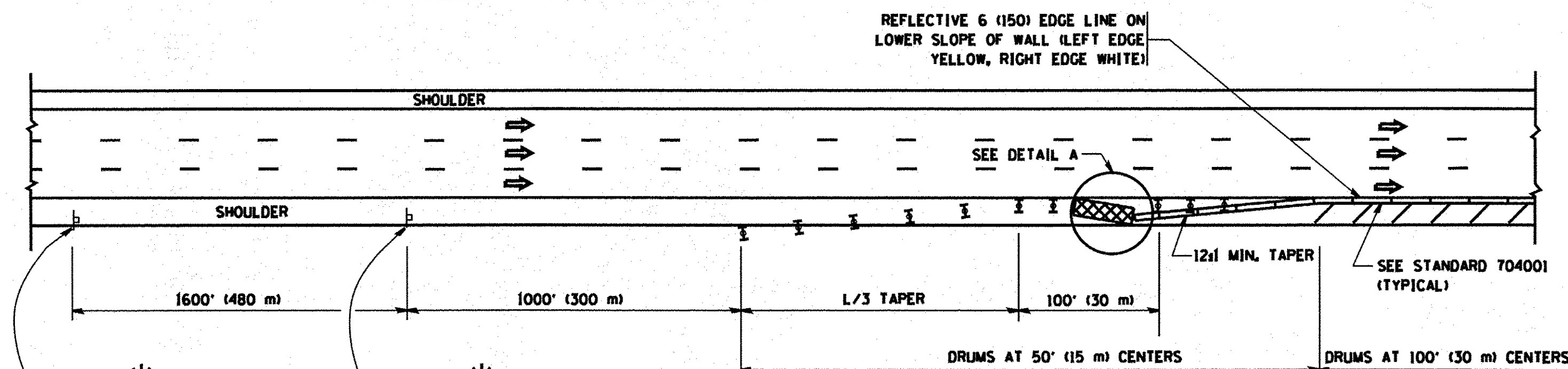
**GENERAL NOTES**

1. THE "L" DISTANCE EQUALS:
 

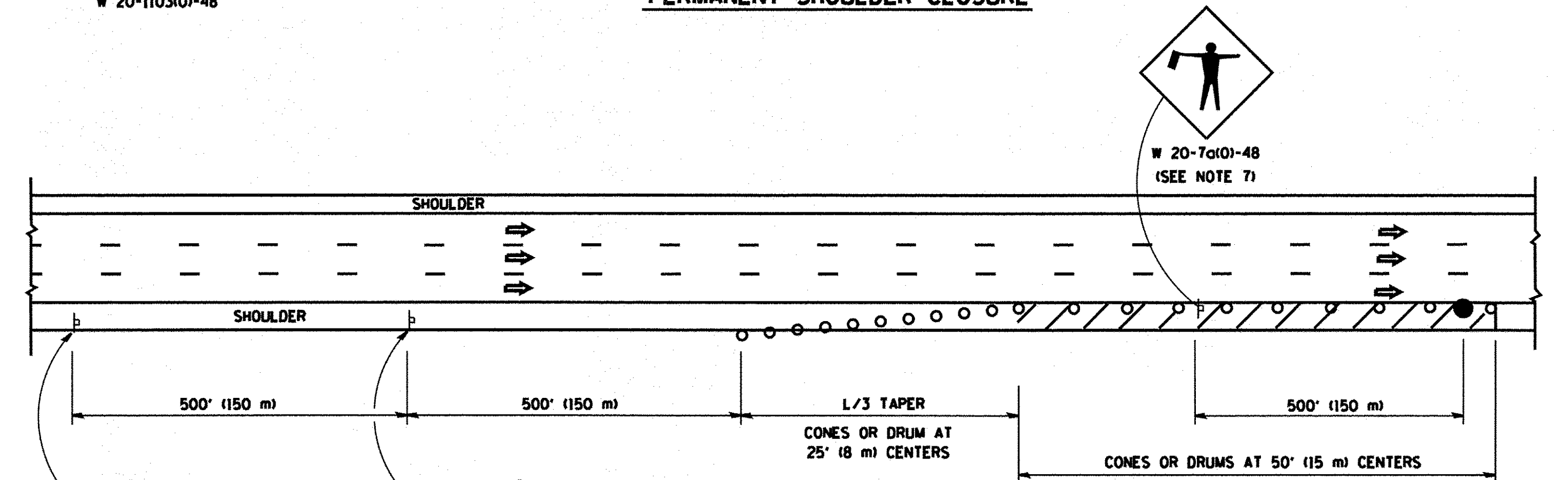
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH
	$L = 0.65(WNS)$ $L = (WNS)$

W = WIDTH OF OFFSET IN FEET (METERS)  
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

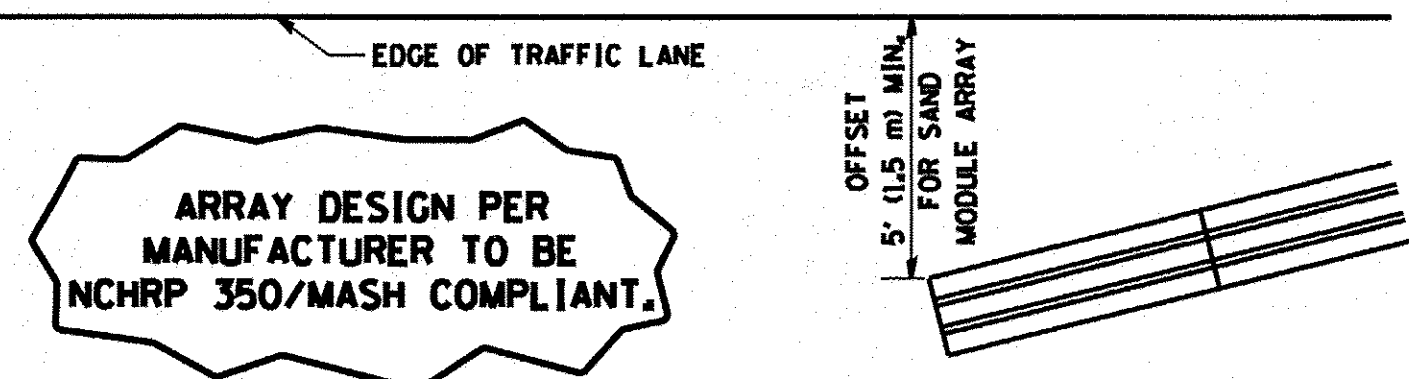
**SHOULDER CLOSURE DETAILS**



**PERMANENT SHOULDER CLOSURE**



**DAYTIME SHOULDER CLOSURE**



**DETAIL "A"  
IMPACT ATTENUATOR, TEMPORARY  
(SEE NOTE 5)**

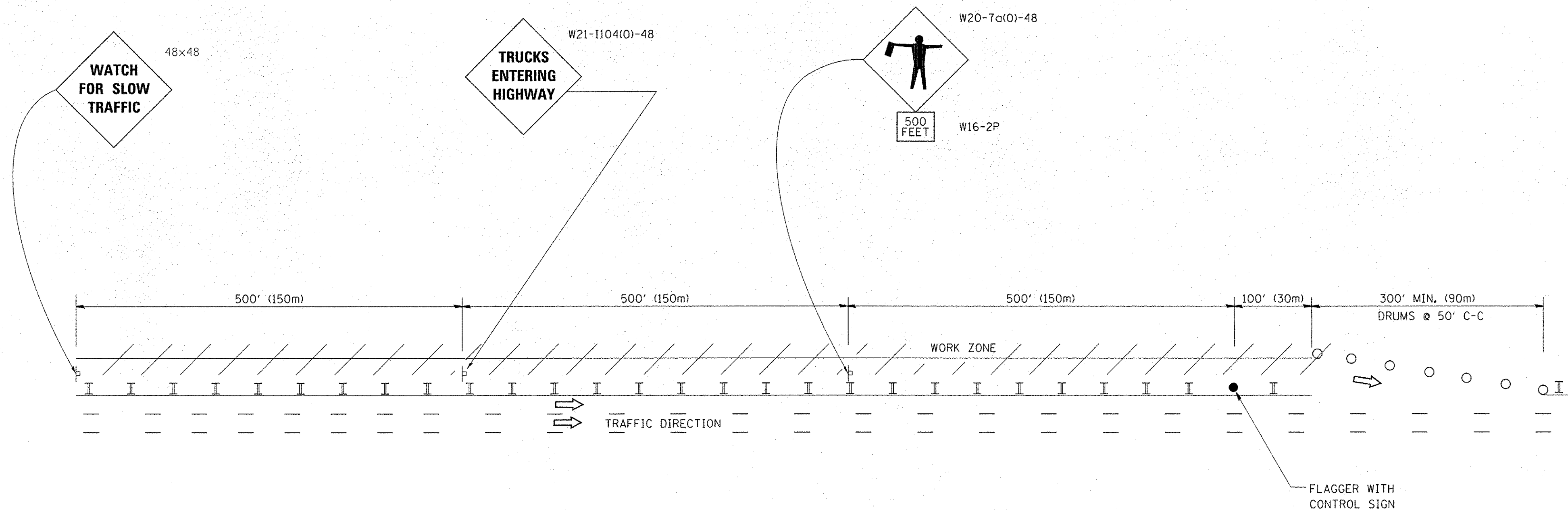
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

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

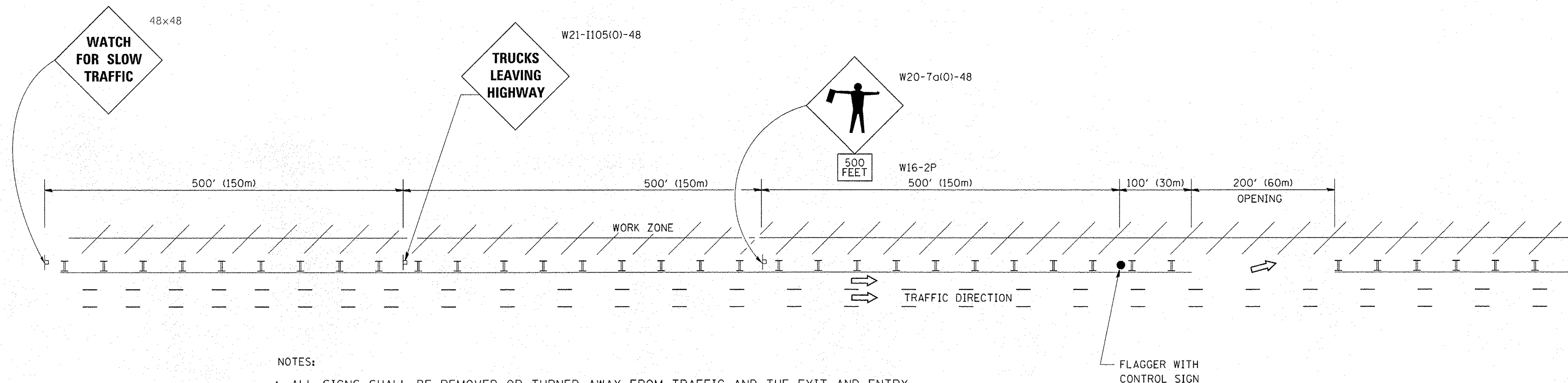
FILE NAME =	USER NAME = leyse	DESIGNED - J.A.F. 12-06	REVISED - J.A.F. 12-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>	F.A.L. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 59	
DRAWN - D.W.S.		REVISED - S.P.B. 01-07				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT : M-4003(677)		
CHECKED -		REVISED - S.P.B. 12-09				CONTRACT NO. 61D25					
PLOT SCALE = 100.0000' / in.		DATE - 11-96				REVISOR - M.D. 06-13					

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING

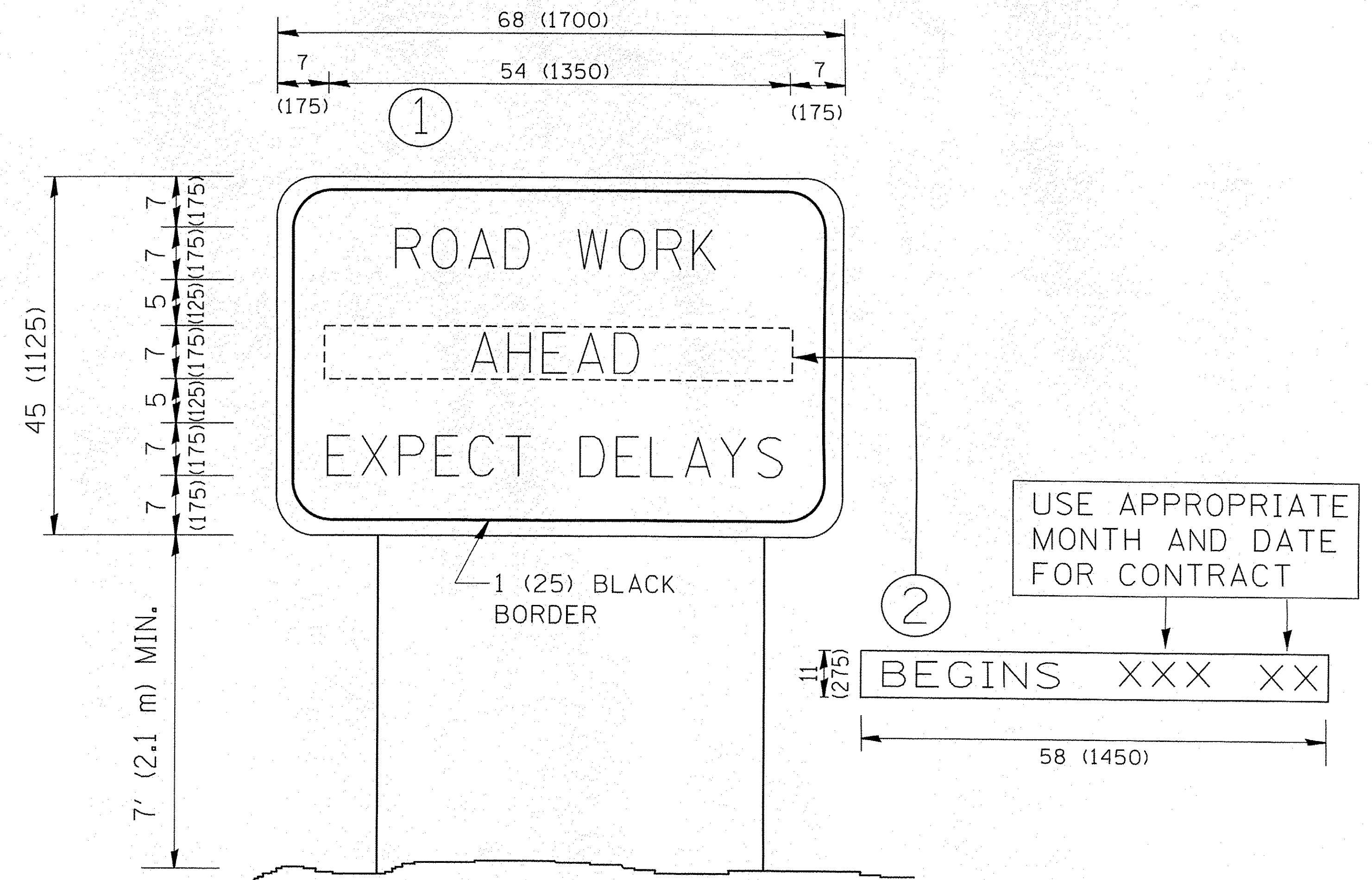


NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMP.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = c:\pw_work\pwidot\footemj\d0109315\to18.dgn	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS</b>	F.A.U. RTE. 8522	SECTION 13-00032-00-TL	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 60	
PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - S.P.B. 01-07	REVISED - S.P.B. 12-09			<b>TC-18</b>		CONTRACT NO. 61D25			
PLOT DATE = 7/8/2013	DATE -	REVISED - M.D. 06-13	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT: M-4003(677)			



**NOTES:**

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

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

FILE NAME = W:\dststd\22x34\tc22.dgn	USER NAME = goglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / 1"	DRAWN -	REVISED - R. MIRS 12-11-97			8522	13-00032-00-TL	COOK	61	61
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99			<b>TC-22</b>		<b>CONTRACT NO. 61D25</b>		
		DATE -	REVISED - C. JUCIUS 01-31-07	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT : M-4003(677)		