

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

04-26-2019 LETTING ITEM 138

F.A.P. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS
0369	17-00233-03-SP	DUPAGE	53
	ILLINOIS	CONTRACT NO.	61F66

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

DESIGN DESIGNATION

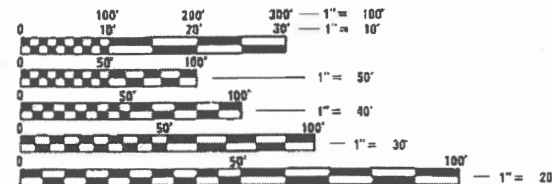
75TH STREET - PRINCIPAL ARTERIAL
DESIGN SPEED: 75TH STREET = 50 MPH (45 MPH POSTED)
NAPER BOULEVARD = 40 MPH (35 MPH POSTED)
2019 ADT: 75TH STREET 42,200
NAPER BOULEVARD 29,300

PROJECT LOCATED IN
THE CITY OF NAPERVILLE



Michael Barbier
MICHAEL BARBIER, P.E.
NO. 062-064969
EXP. DATE 11/30/2019
SHEETS 1-18, 50-53

FOR SHEETS 19-49
Elizabeth A. Jensen 1/13/19
ENGINEER DATE
ELIZABETH A. JENSEN
ILLINOIS REGISTRATION NO. 062-067808
EXPIRATION DATE: 11-30-2019

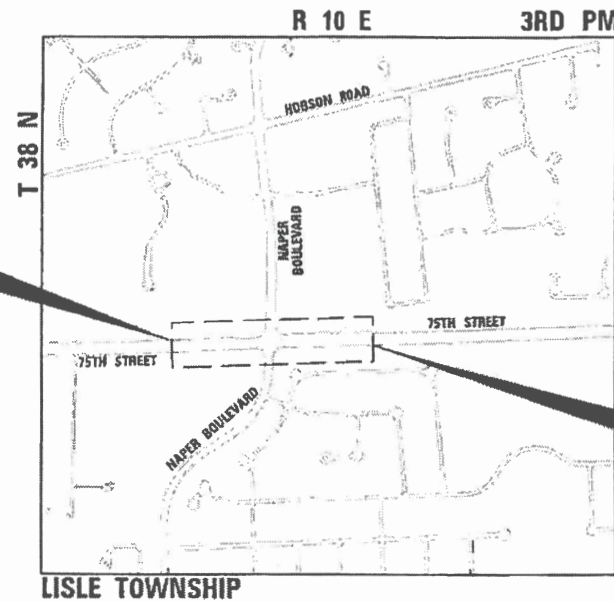


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 61F66

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
F.A.P. ROUTE 0369 COUNTY HIGHWAY 33 (75TH STREET)
AT NAPER BOULEVARD
INTERSECTION IMPROVEMENT
SECTION 17-00233-03-SP
PROJECT
DUPAGE COUNTY
C-91-194-17

75TH STREET IMPROVEMENT
BEGINS STA. 12 + 15.89



75TH STREET IMPROVEMENT
ENDS STA. 28 + 55.86

SCALE: N.T.S.
LOCATION MAP

GROSS LENGTH OF PROJECT = 1639.97 FT = 0.31 MILE

NET LENGTH OF PROJECT = 1639.97 FT = 0.31 MILE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 1/15 20 19
Christopher Snyder
DUPAGE COUNTY DIVISION OF TRANSPORTATION COUNTY ENGINEER

PASSED 2/14 20 19
Scott McNeill
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW February 15, 2019
Anthony J. Dingler / OAS
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF
THE STATE OF ILLINOIS

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

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HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS >= 40 MPH
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877006-06	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS
877011-10	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

UTILITY CONTACT INFORMATION

UTILITY	CONTACT	PHONE NUMBER
ATT/DISTRIBUTION	JANET AHERN	630-573-6414
COMCAST	THOMAS MUNAR	630-600-6316
COMED	CHRISTIAN MUKANIA	339-440-6254
DUPAGE WATER COMMISSION	MICHAEL SCHWEIZER	630-834-0100
NAPERVILLE DPU. - ELECTRIC	LARRY SLATE	630-420-6192
NAPERVILLE DPU. - SANITARY	WILLIAM BOLSTER	630-420-4122
NAPERVILLE DPU. - WATER	WILLIAM BOLSTER	630-420-4122
NICOR	BRUCE KOPPANG	630-388-3046
WIDE OPEN WEST	KEVIN RHODES	630-930-7597
WINDSTREAM	ANDRES BRAVO	847-345-4024

GENERAL NOTES

GENERAL NOTES

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.

ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

UNLESS AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED, TO HAVE AVAILABLE A WATER TRUCK OR SIMILAR EQUIPMENT TO CONTROL DUST. IF NECESSARY, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL DUST DURING NON-WORKING HOURS.

TREE REMOVAL, CLEARING, HEDGE REMOVAL

TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.

TOPSOIL

TOPSOIL SHALL BE PLACED TO A DEPTH OF SIX (6) INCHES AND BE MEASURED IN SQUARE YARDS.

TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE LIMITS OF CONSTRUCTION; THE LOCATIONS OF TOPSOIL STOCKPILES WITHIN THE RIGHT-OF-WAY MUST BE APPROVED BY THE ENGINEER.

ROADWAY EXCAVATION

ALL EXISTING CULVERTS, STORM SEWERS, OR DRAINAGE STRUCTURES MARKED FOR REMOVAL ON THE PLANS OR DESIGNATED IN THE FIELD BY THE ENGINEER TO BE REMOVED SHALL BE REMOVED AND ANY EXCAVATION SHALL BE BACKFILLED WITH A GRANULAR MATERIAL MEETING THE SPECIFICATIONS FOR FA-1 OR FA-2.

THE CONTRACTOR WILL HAVE THE OPTION OF REMOVING THE EXISTING HOT-MIX ASPHALT PAVEMENT BY GRINDING OR EXCAVATING. IF THE HOT-MIX ASPHALT PAVEMENT IS REMOVED BY EXCAVATION, IT MAY NOT BE USED IN EMBANKMENT AREAS UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. HOT-MIX ASPHALT PAVEMENT REMOVED BY GRINDING MAY BE USED AS EMBANKMENT MATERIAL. NO HOT-MIX ASPHALT MATERIAL SHALL BE REMOVED IN AREAS TO BE USED FOR TEMPORARY ROADWAY.

THE CONTRACTOR SHALL NOT CROSS COMPLETED BASE COURSE OR EXISTING PAVEMENT, NOT SCHEDULED TO BE REMOVED, WITH LOADED SCRAPERS OR TRACK EQUIPMENT.

ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING AGGREGATE SUBGRADE OR SUB-BASE GRANULAR MATERIAL.

STORM SEWERS, STRUCTURES, UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMANS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED.

THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNERS OF THE UTILITIES.

ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND CONNECTED TO PROPOSED DRAINAGE STRUCTURES, SEWERS, OR DITCHES, AS DIRECTED BY THE ENGINEER.

HOT-MIX ASPHALT SURFACE COURSE, AND BINDER COURSE

HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOPSOIL PLACEMENT, BASE COURSE, AND HOT-MIX ASPHALT BINDER COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.

HOT-MIX ASPHALT BASE COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN BACKFILLED TO THE SATISFACTION OF THE ENGINEER.

BACKFILL

WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS USING METHOD ONE.

BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC WILL NOT BE ALLOWED.

FILE NAME :	USER NAME :	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND STANDARDS 75TH STREET AT NAPER BOULEVARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			0369	17-00233-03-SP	DUPAGE	53	2	
	PLOT SCALE :	CHECKED -	REVISED -			CONTRACT NO. 61F66					
	PLOT DATE :	DATE -	REVISED -			SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

SPECIAL PROVISION	SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0021 TRAFFIC SIGNALS
		20200100	EARTH EXCAVATION	CU YD	17	17	
		20400800	FURNISHED EXCAVATION	CU YD	49	49	
		21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	349	349	
S.P.		25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1	
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9	9	
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9	9	
		25100630	EROSION CONTROL BLANKET	SQ YD	484	484	
S.P.		28000400	PERIMETER EROSION BARRIER	FOOT	340	340	
S.P.		28000510	INLET FILTERS	EACH	8	8	
S.P.		30300116	AGGREGATE SUBGRADE IMPROVEMENT 16"	SQ YD	55	55	
		35101800	AGGREGATE BASE COURSE, TYPE B, 4"	SQ YD	142	142	
		35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	92	92	
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1515	1515	
S.P.		40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	10	10	
		40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	325	325	
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1272	1272	
		42400800	DETECTABLE WARNINGS	SQ FT	148	148	
		44000100	PAVEMENT REMOVAL	SQ YD	84	84	
		44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	3227	3227	
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	272	272	
		44000600	SIDEWALK REMOVAL	SQ FT	594	594	
		60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	270	270	
S.P.	X	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	10	10	
	X	66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5	
	X	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
	X	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	2	2	
	X	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
		67100100	MOBILIZATION	LSUM	1	1	

SPECIAL PROVISION	SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0021 TRAFFIC SIGNALS
		70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	LSUM	1	1	
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1	
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1	
S.P.		70107025	CHANGEABLE MESSAGE SIGN	CAL DA	140	140	
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	6766	6766	
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2255	2255	
		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	473	473	
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1857	1857	
		70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1220	1220	
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	180	180	
	X	72000100	SIGN PANEL - TYPE 1	SQ FT	30		30
	X	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	510	510	
	X	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1922	1922	
	X	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	836	836	
	X	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	221	221	
S.P.	X	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	855		855
S.P.	X	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	233		233
S.P.	X	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	571		571
S.P.	X	81400100	HANDHOLE	EACH	2		2
S.P.	X	81400300	DOUBLE HANDHOLE	EACH	2		2
S.P.	X	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	3111		3111
S.P.	X	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4		4
S.P.	X	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1333		1333
S.P.	X	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1617		1617
S.P.	X	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2470		2470
S.P.	X	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3174		3174
S.P.	X	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2211		2211
S.P.	X	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	56		56

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					0369	17-00233-03-SP	DUPAGE	53	3
		CHECKED -	REVISED -		SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 61F66			
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES


SPECIAL PROVISION	SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0021 TRAFFIC SIGNALS
S.P.	X	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1302		1302
S.P.	X	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2		2
S.P.	X	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2
S.P.	X	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1		1
S.P.	X	87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1		1
S.P.	X	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1		1
S.P.	X	87702950	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1		1
S.P.	X	87703010	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1		1
S.P.	X	87703050	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1		1
S.P.	X	87703110	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH	1		1
S.P.	X	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24		24
S.P.	X	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4
S.P.	X	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20		20
S.P.	X	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13		13
S.P.	X	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	67		67
	X	87900200	DRILL EXISTING HANDHOLE	EACH	5		5
S.P.	X	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12		12
S.P.	X	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1
S.P.	X	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		3
S.P.	X	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		5
S.P.	X	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8
S.P.	X	88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	17		17
S.P.	X	88700200	LIGHT DETECTOR	EACH	4		4
S.P.	X	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1
S.P.	X	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1
	X	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	14005		14005
S.P.	X	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1
	X	89502380	REMOVE EXISTING HANDHOLE	EACH	14		14

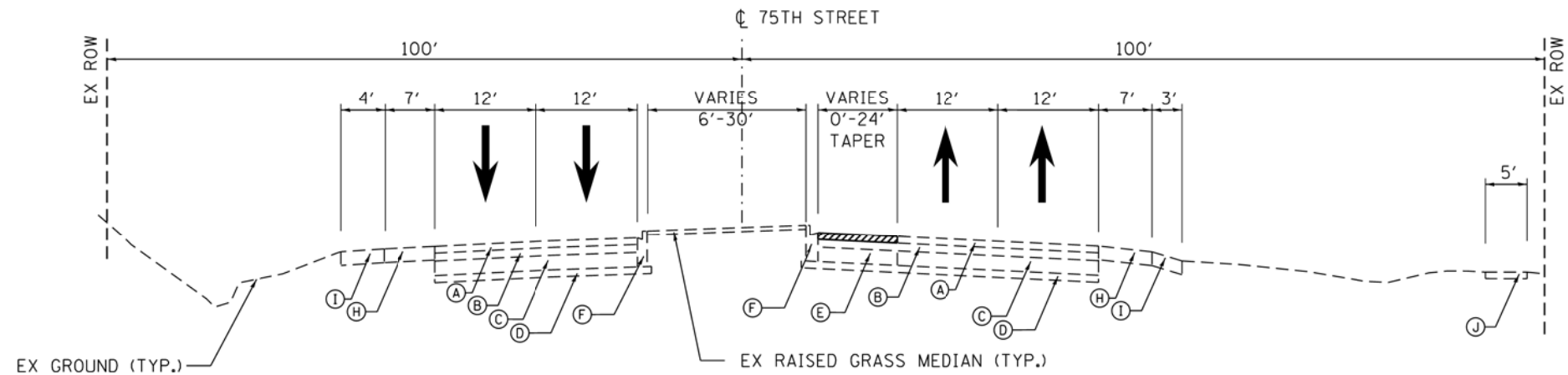
SPECIAL PROVISION	SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	0004 ROADWAY	0021 TRAFFIC SIGNALS
	X	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9
S.P.	X	X0322951	CABLE SPLICE SPECIAL	EACH	4		4
S.P.	X	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1140		1140
S.P.	X	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	208		208
S.P.	X	X0327211	RELOCATE SWITCH	EACH	2		2
S.P.	X	X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4		4
S.P.		X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	15537	15537	
S.P.	X	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1
S.P.	X	X1400173	REINSTALLATION OF CABLE IN CONDUIT	FOOT	2823		2823
S.P.	X	X1400217	TERMINATE FIBER IN CABINET	EACH	48		48
S.P.	X	X1400219	SPLICE FIBER IN CABINET	EACH	12		12
S.P.	X	X1400322	RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	2		2
S.P.		X4402805	ISLAND REMOVAL	SQ FT	831	831	
S.P.	X	X7240500	RELOCATE EXISTING SIGNS	EACH	1		1
S.P.	X	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	45	45	
S.P.	X	X8100105	CONDUIT SPLICE	EACH	1		1
S.P.	X	X8570226	LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	4		4
S.P.	X	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1
S.P.	X	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1
S.P.		XX005206	EXPLORATORY EXCAVATION	FOOT	20		20
S.P.	X	XX005723	VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1		1
S.P.	X	XX008392	OUTDOOR RATED NETWORK CABLE	FOOT	485		485
S.P.	X	XX008608	CABLE, SPECIAL	FOOT	915		915
S.P.		Z0007430	TEMPORARY SIDEWALK	SQ FT	442	442	
S.P.		Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
S.P.	X	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1
S.P.	X	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					0369	17-00233-03-SP	DUPAGE	53	4
		PLOT SCALE =	CHECKED -		REVISED -	SCALE:			CONTRACT NO. 61F66			
		PLOT DATE =	DATE -		REVISED -	SHEET 2 OF 2 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT			

LEGEND

* = PAINTED STRIPED MEDIAN

 = HMA SURFACE REMOVAL, 1-3/4"

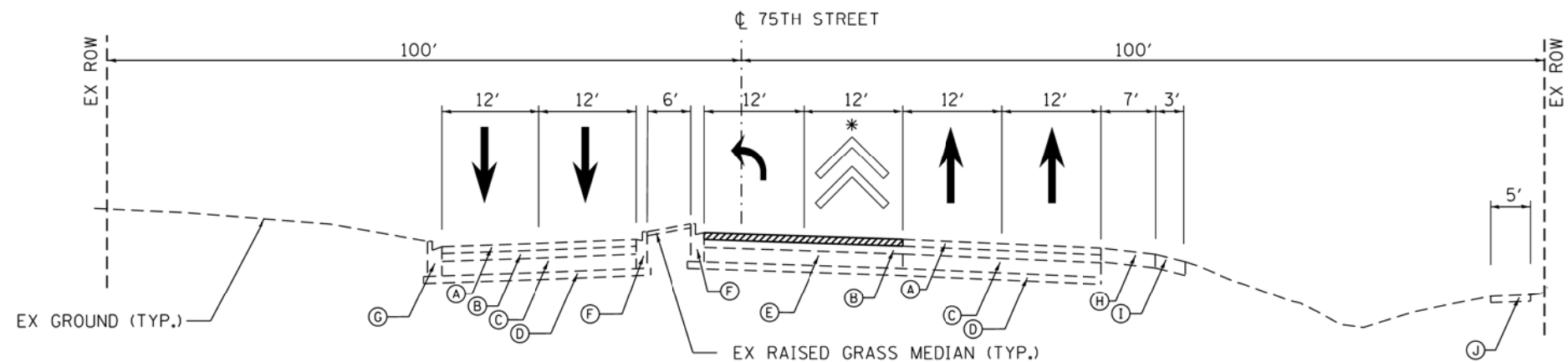


EXISTING TYPICAL SECTION

STA. 12+15.89 TO STA. 15+15.89, 75TH STREET

EXISTING LEGEND

- (A) 1.75" HOT-MIX ASPHALT (HMA) SURFACE COURSE
- (B) 1.75" HOT-MIX ASPHALT (HMA) BINDER COURSE
- (C) 8" & VARIES P.C.C. BASE COURSE
- (D) 4" AGGREGATE SUBBASE
- (E) 10" P.C.C. BASE COURSE
- (F) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.06
- (G) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (H) 8" & VARIES HOT-MIX ASPHALT (HMA) SHOULDER
- (I) 8" AGGREGATE SHOULDER
- (J) 5" P.C.C. SIDEWALK




EXISTING TYPICAL SECTION

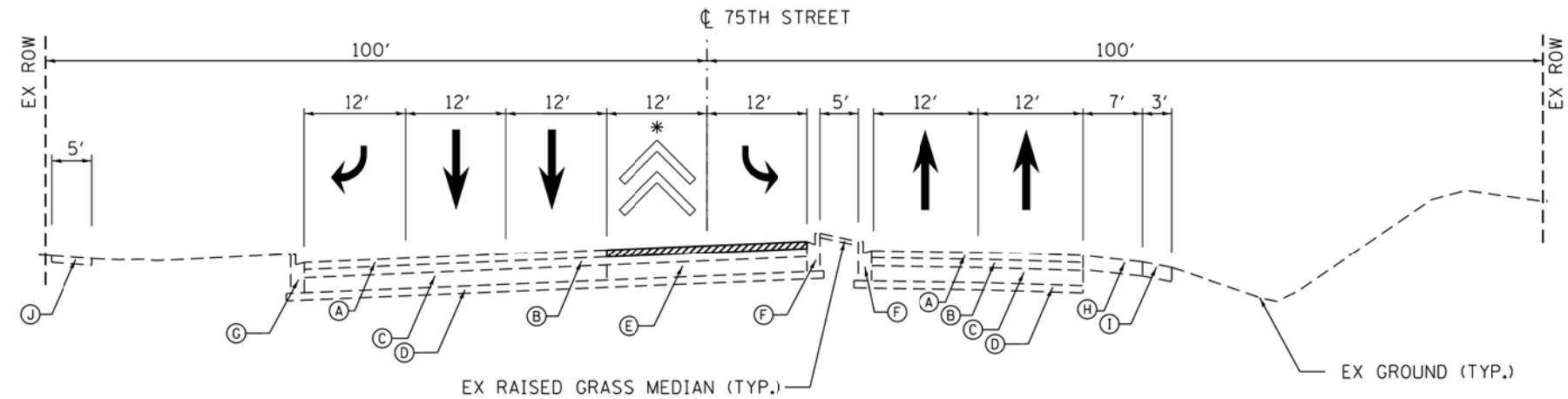
STA. 15+15.89 TO STA. 19+01.89, 75TH STREET

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS 75TH STREET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		SCALE: N.T.S.	SHEET 1 OF 4 SHEETS	STA.	17-00233-03-SP	DUPAGE	53	5
		CHECKED -	REVISED -		TO STA.			CONTRACT NO. 61F66			
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT		

LEGEND

* = PAINTED STRIPED MEDIAN

 = HMA SURFACE REMOVAL, 1-3/4"

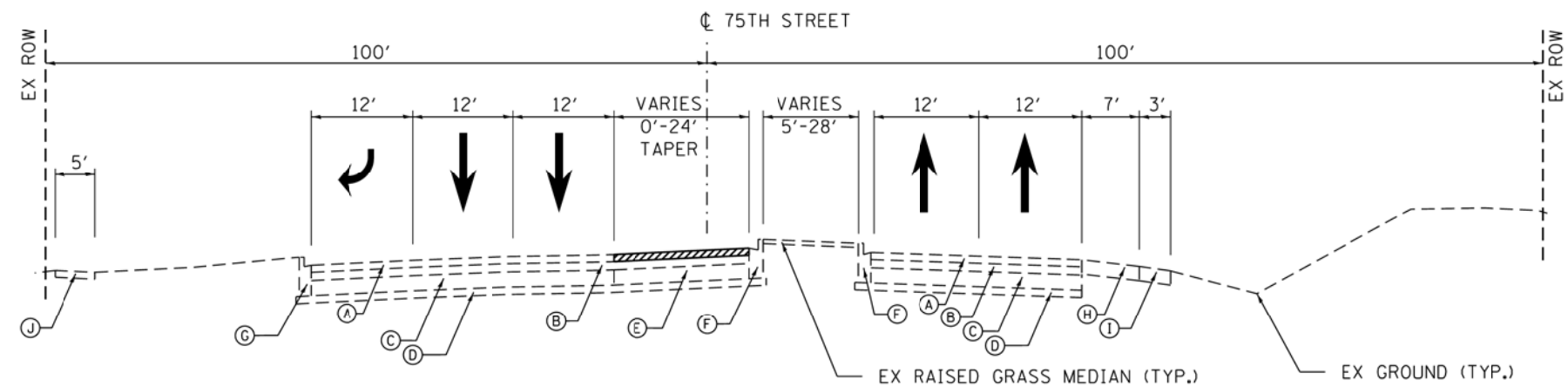


EXISTING TYPICAL SECTION

STA. 20+95.96 TO STA. 25+55.86, 75TH STREET

EXISTING LEGEND

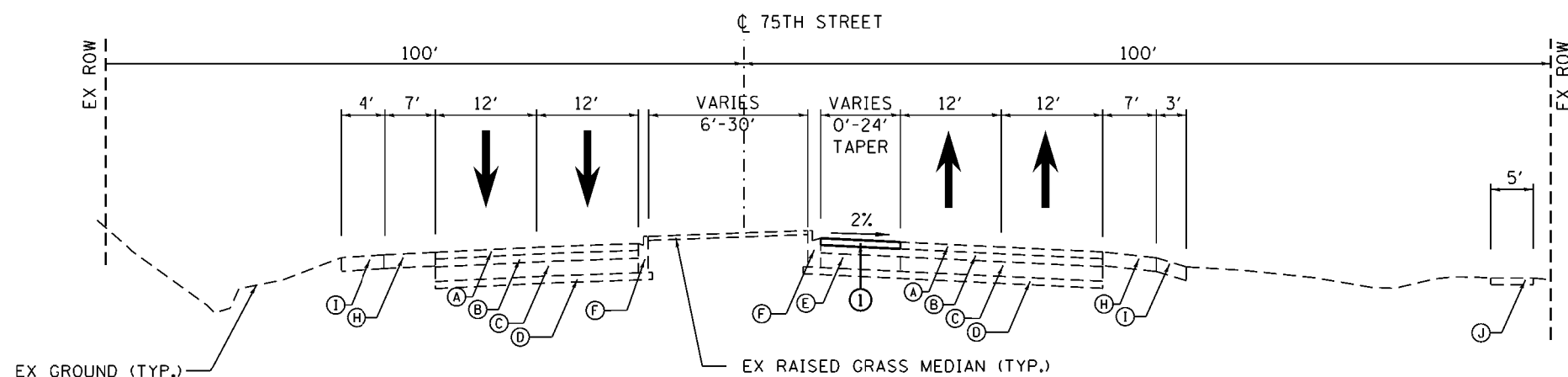
- (A) 1.75" HOT-MIX ASPHALT (HMA) SURFACE COURSE
- (B) 1.75" HOT-MIX ASPHALT (HMA) BINDER COURSE
- (C) 8" & VARIES P.C.C. BASE COURSE
- (D) 4" AGGREGATE SUBBASE
- (E) 10" P.C.C. BASE COURSE
- (F) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.06
- (G) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- (H) 8" & VARIES HOT-MIX ASPHALT (HMA) SHOULDER
- (I) 8" AGGREGATE SHOULDER
- (J) 5" P.C.C. SIDEWALK



EXISTING TYPICAL SECTION

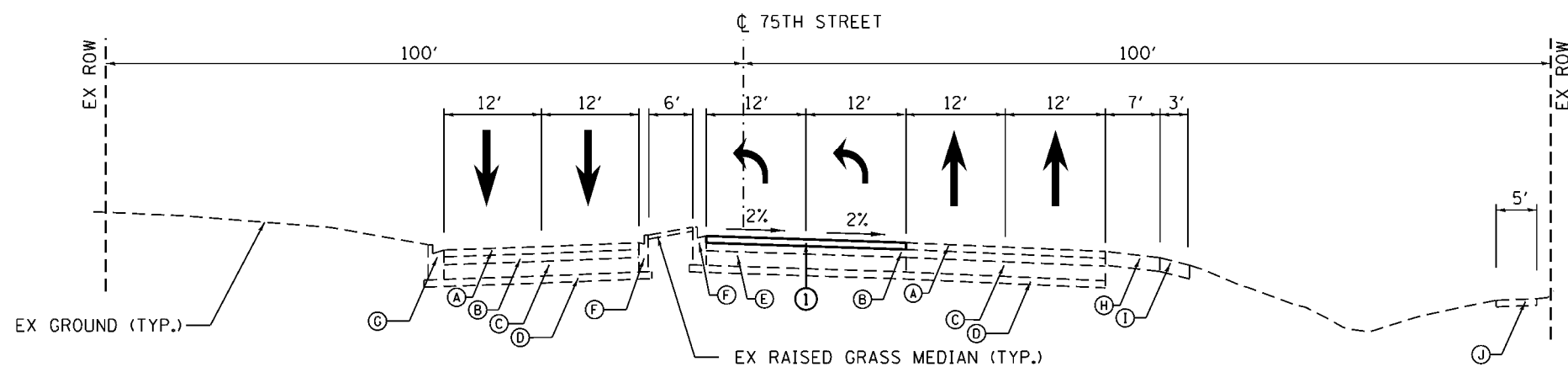
STA. 25+55.86 TO STA. 28+55.86, 75TH STREET

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS 75TH STREET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -		SCALE: N.T.S.	SHEET 2 OF 4 SHEETS	STA.	TO STA.	0369	17-00233-03-SP	DUPAGE	53	6
		CHECKED -	REVISED -		CONTRACT NO. 61F66								
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



PROPOSED TYPICAL SECTION

STA. 12+15.89 TO STA. 15+15.89, 75TH STREET



PROPOSED TYPICAL SECTION

STA. 15+15.89 TO STA. 19+01.89, 75TH STREET

PROPOSED LEGEND

- ① 1-3/4" POLY. HOT MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5MM)
- ② COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ③ NO. 6 EPOXY COATED TIE BARS (INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER, TYPE B-6.18)
- ④ AGGREGATE SUBGRADE IMPROVEMENT, 16"
- ⑤ TOPSOIL AND SEEDING WITH EROSION CONTROL BLANKET

EXISTING LEGEND

- Ⓐ 1.75" HOT-MIX ASPHALT (HMA) SURFACE COURSE
- Ⓑ 1.75" HOT-MIX ASPHALT (HMA) BINDER COURSE
- Ⓒ 8" & VARIES P.C.C. BASE COURSE
- Ⓓ 4" AGGREGATE SUBBASE
- Ⓔ 10" P.C.C. BASE COURSE
- Ⓕ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.06
- Ⓖ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- Ⓗ 8" & VARIES HOT-MIX ASPHALT (HMA) SHOULDER
- Ⓘ 8" AGGREGATE SHOULDER
- ⓵ 5" P.C.C. SIDEWALK

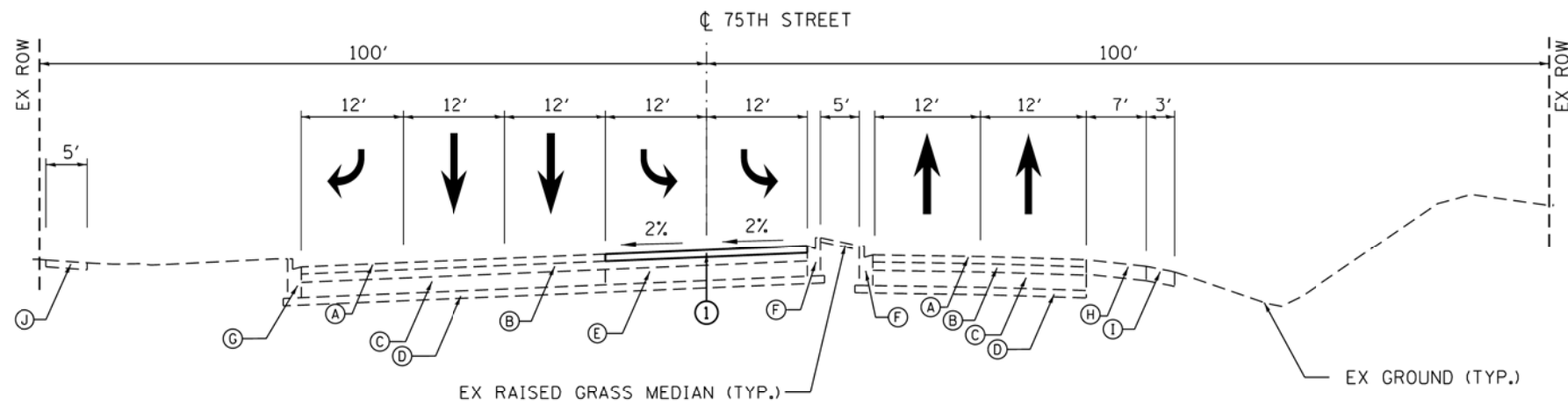
HMA MIXTURE REQUIREMENTS CHART

MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm): 1-3/4"	4% @ 70 Gyr.
PAVEMENT RECONSTRUCTION	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm): 1-3/4"	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2-1/4"	4% @ 90 Gyr.
TEMPORARY SIDEWALK	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm): 3"	4% @ 50 Gyr.

NOTES:
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT 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 USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

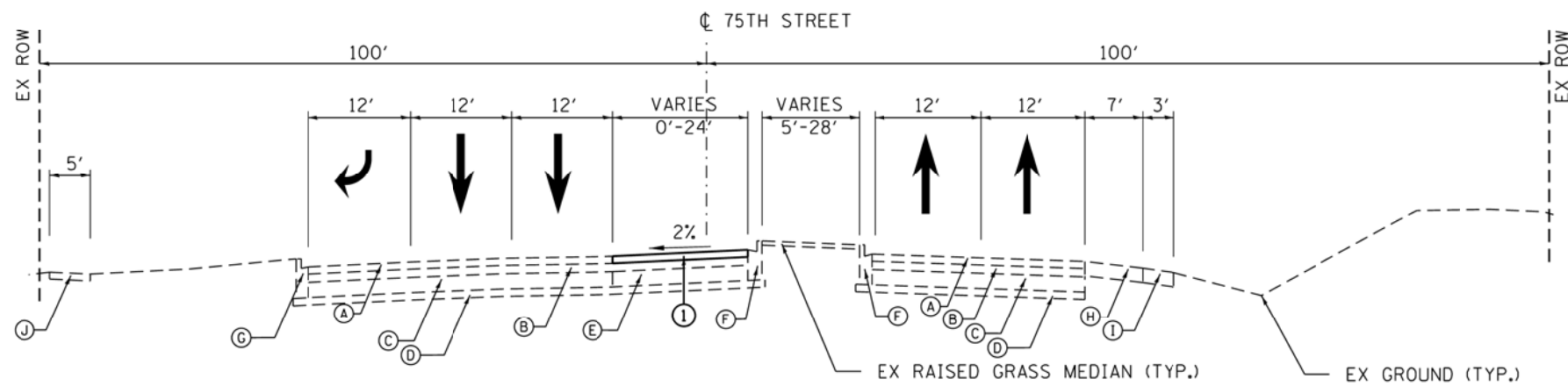


PROPOSED TYPICAL SECTION

STA. 20+95.96 TO STA. 25+55.86, 75TH STREET

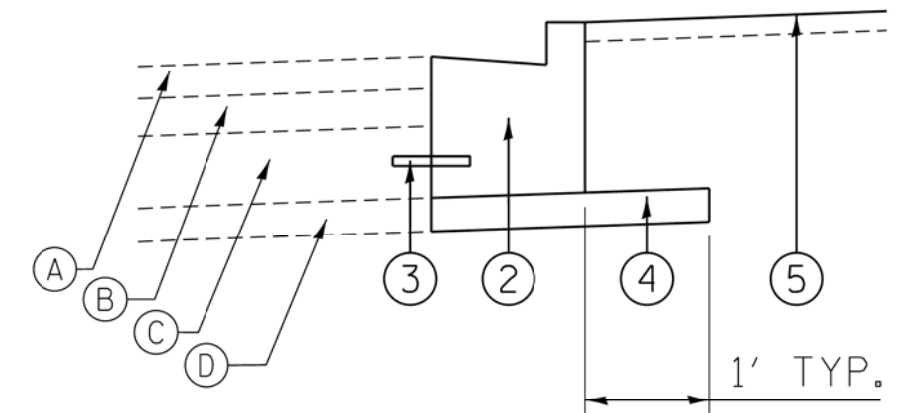
- PROPOSED LEGEND**
- ① 1-3/4" POLY. HOT MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5mm)
 - ② COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
 - ③ NO. 6 EPOXY COATED TIE BARS (INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER, TYPE B-6.18)
 - ④ AGGREGATE SUBGRADE IMPROVEMENT, 16"
 - ⑤ TOPSOIL AND SEEDING WITH EROSION CONTROL BLANKET

- EXISTING LEGEND**
- Ⓐ 1.75" HOT-MIX ASPHALT (HMA) SURFACE COURSE
 - Ⓑ 1.75" HOT-MIX ASPHALT (HMA) BINDER COURSE
 - Ⓒ 8" & VARIES P.C.C. BASE COURSE
 - Ⓓ 4" AGGREGATE SUBBASE
 - Ⓔ 10" P.C.C. BASE COURSE
 - Ⓕ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.06
 - Ⓖ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
 - Ⓗ 8" & VARIES HOT-MIX ASPHALT (HMA) SHOULDER
 - Ⓘ 8" AGGREGATE SHOULDER
 - Ⓢ 5" P.C.C. SIDEWALK



PROPOSED TYPICAL SECTION

STA. 25+55.86 TO STA. 28+55.86, 75TH STREET



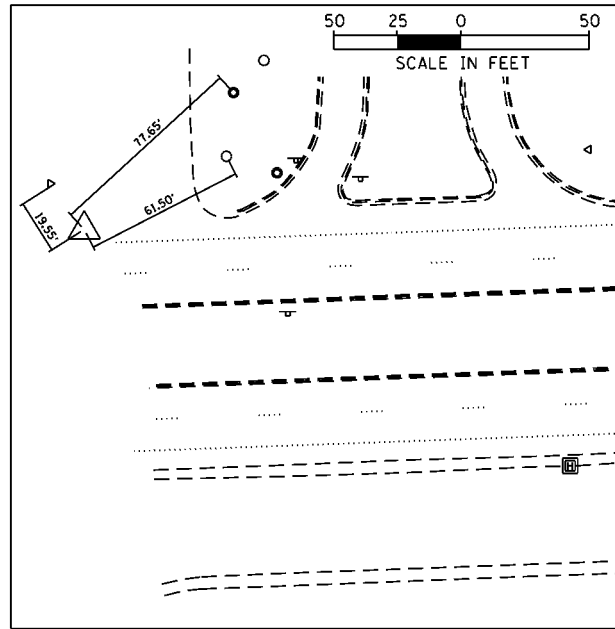
DETAIL A

NORTHEAST CORNER
75TH STREET AT NAPER BOULEVARD

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICAL SECTIONS 75TH STREET		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		0369	17-00233-03-SP	DUPAGE	53	8		
		CHECKED -	REVISED -		SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.		CONTRACT NO. 61F66		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								

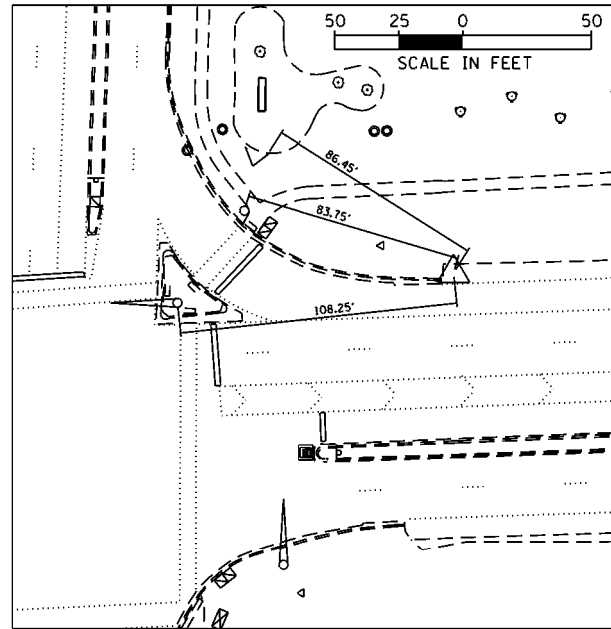
EARTHWORK SCHEDULE				
EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
CU YD	CU YD	CU YD	CU YD	CU YD
17	14	63	-49	0

SINCE THERE IS A NEGATIVE BALANCE, FURNISHED EXCAVATION IS REQUIRED.



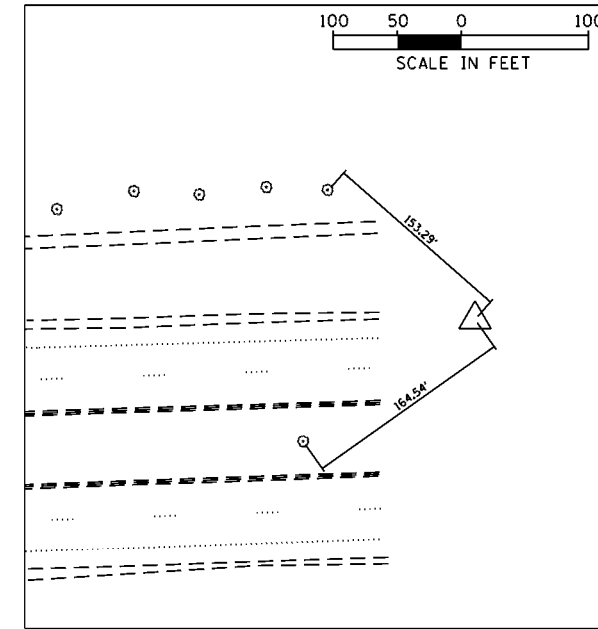
CONTROL POINT #2

SET 5/8" IRON ROD IN PAVEMENT
 STATION N/A
 N: 1042785.13
 E: 1851115.72



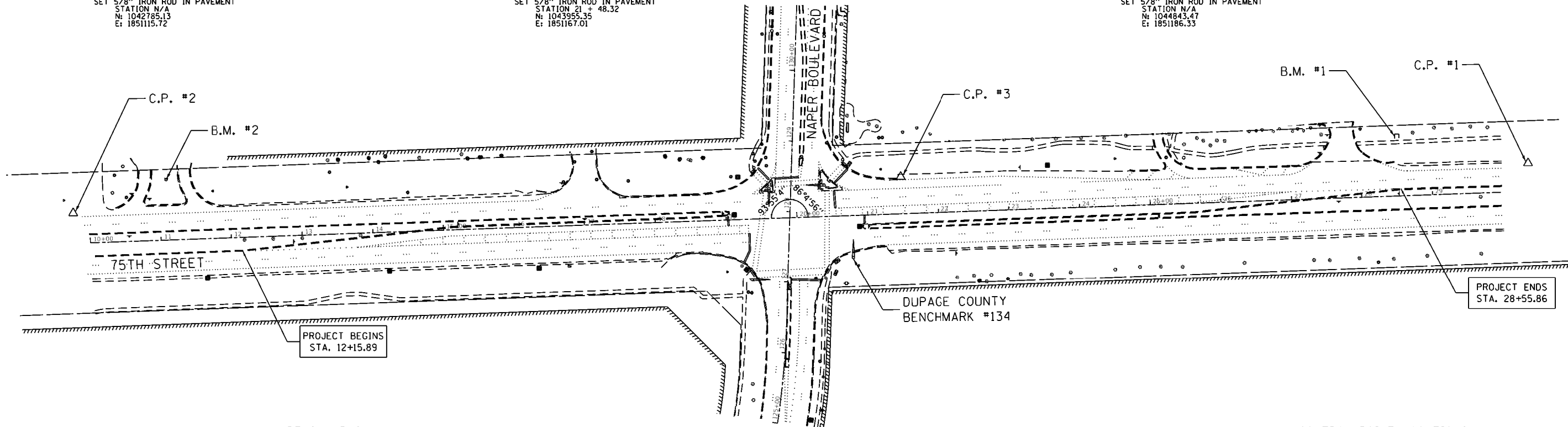
CONTROL POINT #3

SET 5/8" IRON ROD IN PAVEMENT
 STATION 21 + 48.32
 N: 1043955.35
 E: 1851167.01



CONTROL POINT #1

SET 5/8" IRON ROD IN PAVEMENT
 STATION N/A
 N: 1044843.47
 E: 1851186.33



BENCHMARKS

BM#	DESCRIPTION	ELEVATION
BM 1	BOX CUT ON SOUTHWEST CORNER OF ELECTRIC TRANSFORMER CONCRETE PAD, LOCATED 3.3 FT NORTH OF NORTH EDGE OF SIDEWALK ON NORTH SIDE OF 75TH STREET AND 55.6 FEET EAST OF EAST BACK OF CURB OF EAST ENTRANCE TO 1200 SOUTH NAPER BOULEVARD	725.32
BM 2	"X" ON SOUTH EAST BONNET BOLT OF HYDRANT, HYDRANT LOCATED IN CENTER OF ISLAND ON NORTH SIDE OF 75TH STREET IN FRONT OF 1090 75TH STREET, 34.4 FEET NORTH OF BACK OF CURB ON NORTH SIDE OF 75TH STREET.	701.91
CP 1	SET 5/8" IRON ROD APPROXIMATELY 6' NORTH OF TRAVEL LANES, APPROXIMATELY 1045' EAST OF NAPER BOULEVARD CENTER LINE	729.18
CP 2	SET 5/8" IRON ROD APPROXIMATELY 5' NORTH OF TRAVEL LANES, APPROXIMATELY 1015' WEST OF NAPER BOULEVARD CENTER LINE	694.89
CP 3	SET 5/8" IRON ROD APPROXIMATELY 4' NORTH OF TRAVEL LANES, APPROXIMATELY 155' EAST OF NAPER BOULEVARD CENTER LINE	709.99

VERTICAL DATUM IS: NAVD 88

CONTROL POINT LOCATIONS

C.P. #	NORTHING	EASTING	ELEVATION	DESCRIPTION
C.P. 1	1044843.47	1851186.33	729.18	SET NAIL
C.P. 2	1042785.13	1851115.72	694.89	SET NAIL
C.P. 3	1043955.35	1851167.01	709.99	SET NAIL

DUPAGE COUNTY BENCHMARK #134

ELEVATION 709.45 FT
 GEODETIC SURVEY MONUMENT
 LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF 75TH STREET WITH NAPER BOULEVARD.
 MONUMENT IS A 3.5 INCH BRASS DISK ON THE SOUTH SIDE OF THE BASE FOR THE TRAFFIC SIGNAL MAST ARM. STATION IS 42.2 FT NORTH OF FENCE LINE AND 31 FT NORTH EAST OF ELECTRIC BOX.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION






ALIGNMENT, TIES, AND BENCHMARKS

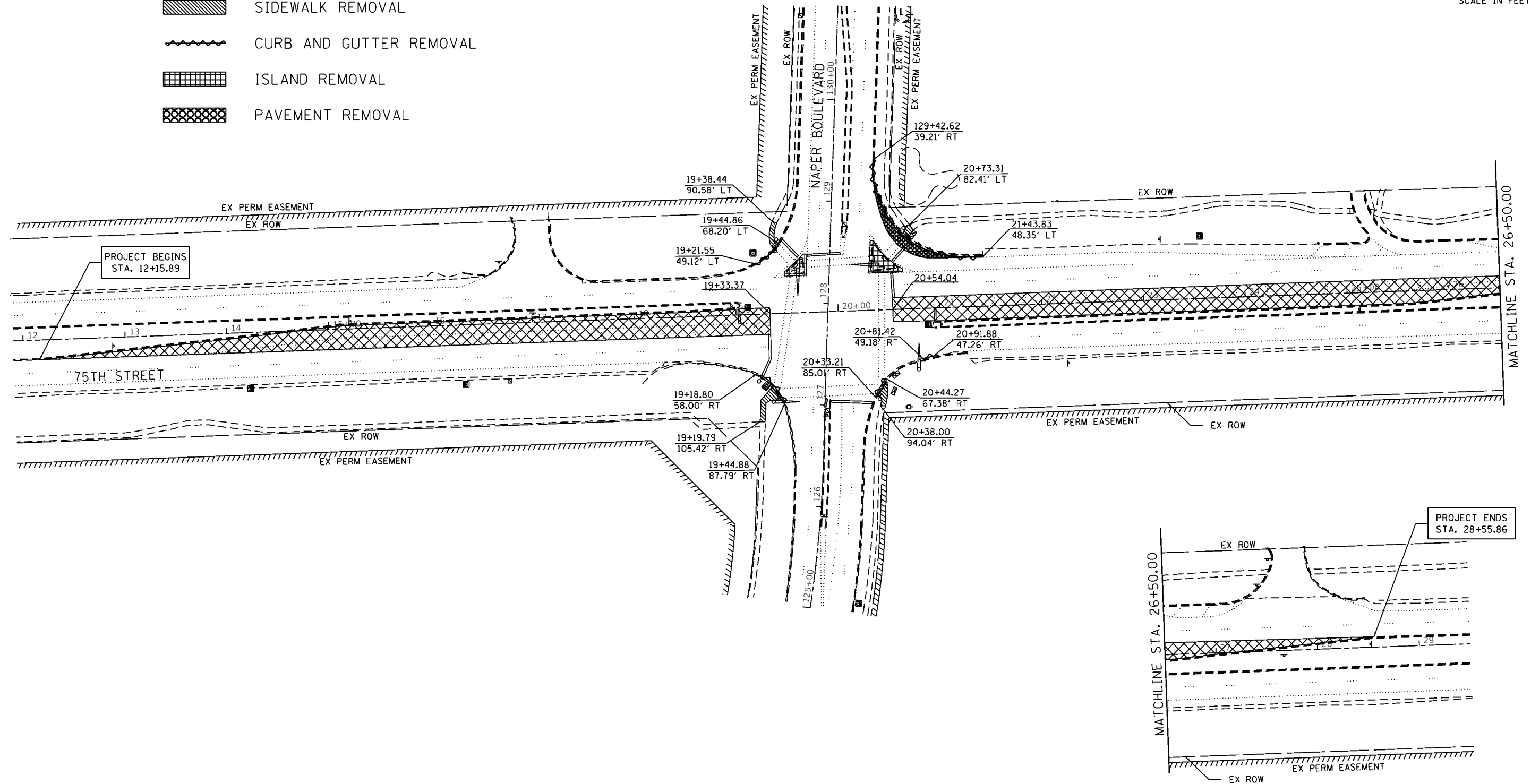
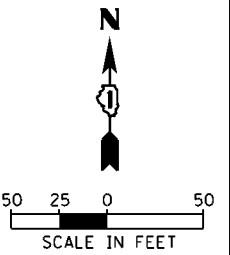
SCALE: VARIES SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-5P	DUPAGE	53	10
CONTRACT NO. 61F66				

ILLINOIS FED. AID PROJECT

LEGEND

-  HMA SURFACE REMOVAL 1-3/4"
-  SIDEWALK REMOVAL
-  CURB AND GUTTER REMOVAL
-  ISLAND REMOVAL
-  PAVEMENT REMOVAL



PROJECT BEGINS
STA. 12+15.89

PROJECT ENDS
STA. 28+55.86

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

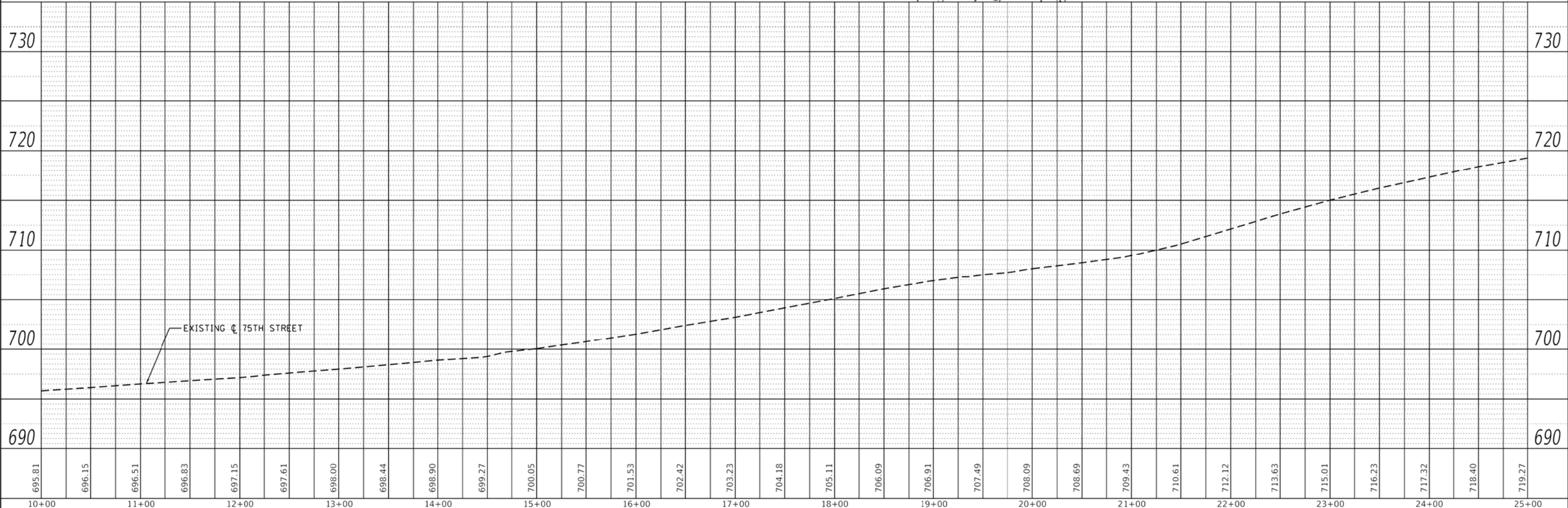
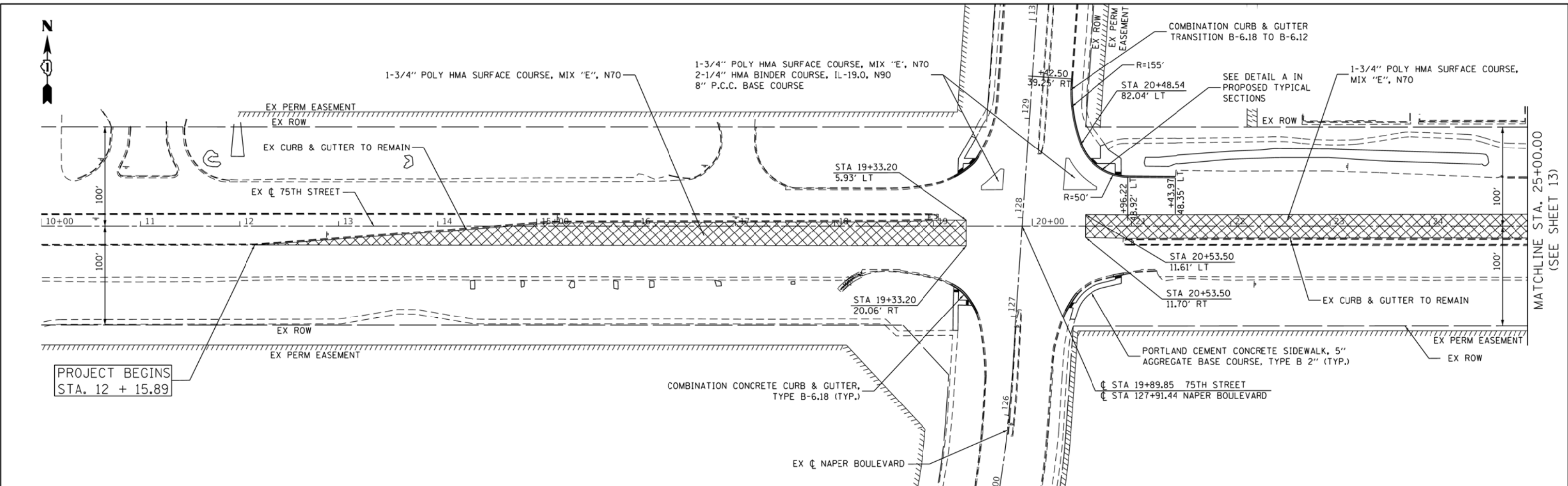
SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	11
CONTRACT NO. 61F66			ILLINOIS FED. AID PROJECT	

PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	NO.	

PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHECKED	
	NO.	
	NO.	

MODEL: Default
 FILE NAME: D:\Engineering\Projects\CH 33 75th Street\17-00233-03-SP 75th at Naperville\Phase 1\GeoPak Files\Plan Profile-75th.dgn



USER NAME =	HWMB	DESIGNED -	REVISED -
		DRAWN -	REVISED -
PLOT SCALE =	100.0000' / in.	CHECKED -	REVISED -
PLOT DATE =	11/15/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

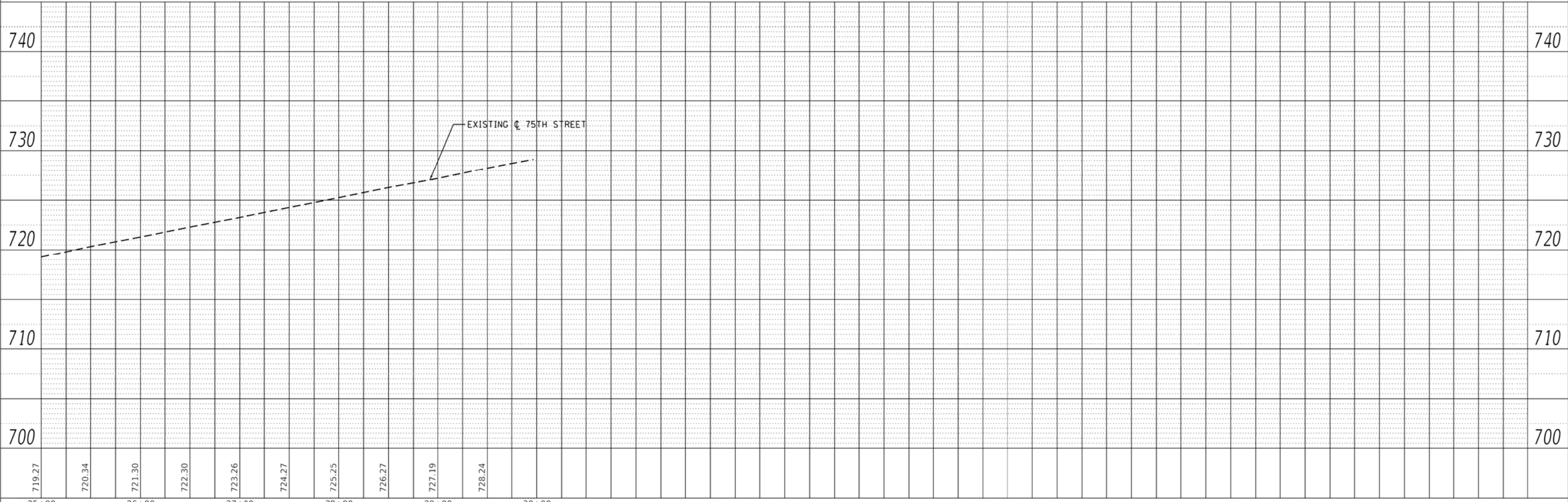
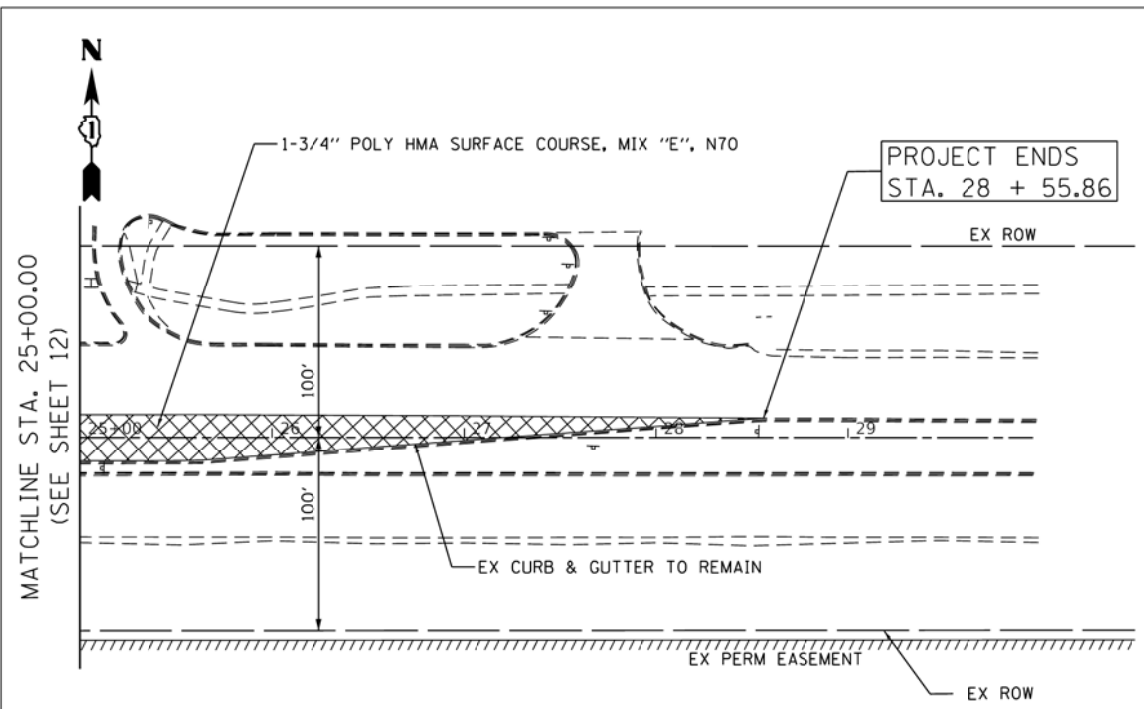
PLAN AND PROFILE 75TH STREET			
SCALE:	SHEET 1	OF 2 SHEETS	STA. 10 + 00.00 TO STA. 25 + 00.00

KEY RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	48	12
CONTRACT NO.				
ILLINOIS		FED. AID PROJECT		

PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

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

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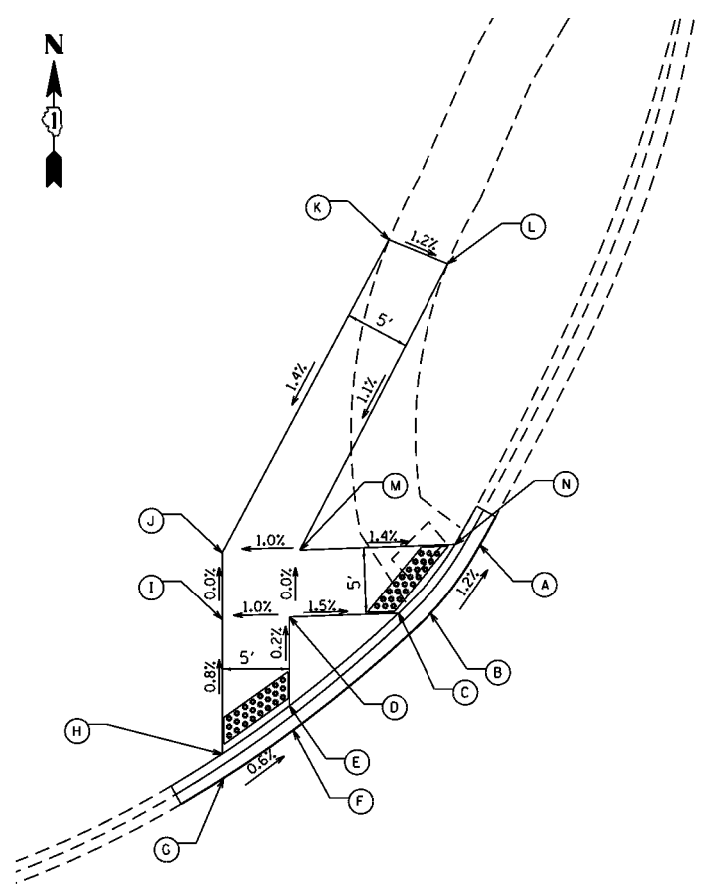


USER NAME = HWMFB	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 11/15/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE 75TH STREET	
SCALE:	SHEET 2 OF 2 SHEETS STA. 25 + 00.00 TO STA. 30 + 00.00

KEY RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	48	13
CONTRACT NO.				
ILLINOIS		FED. AID PROJECT		



NW CORNER OF 75TH ST AND NAPER BLVD			
POINT	STATION	OFFSET	ELEVATION
A	128+56.00	49.83 LT	706.26
B	128+50.75	53.33 LT	706.33
C	128+50.58	55.81 LT	706.33
D	128+50.02	63.95 LT	706.45
E	128+43.40	63.73 LT	706.46
F	128+41.38	63.67 LT	706.46
G	128+37.79	68.55 LT	706.50
H	128+39.67	68.62 LT	706.48
I	128+49.68	68.94 LT	706.40
J	128+54.68	69.10 LT	706.40
K	128+78.36	57.45 LT	706.78
L	128+76.71	52.98 LT	706.72
M	128+55.08	63.34 LT	706.45
N	128+55.87	51.76 LT	706.29

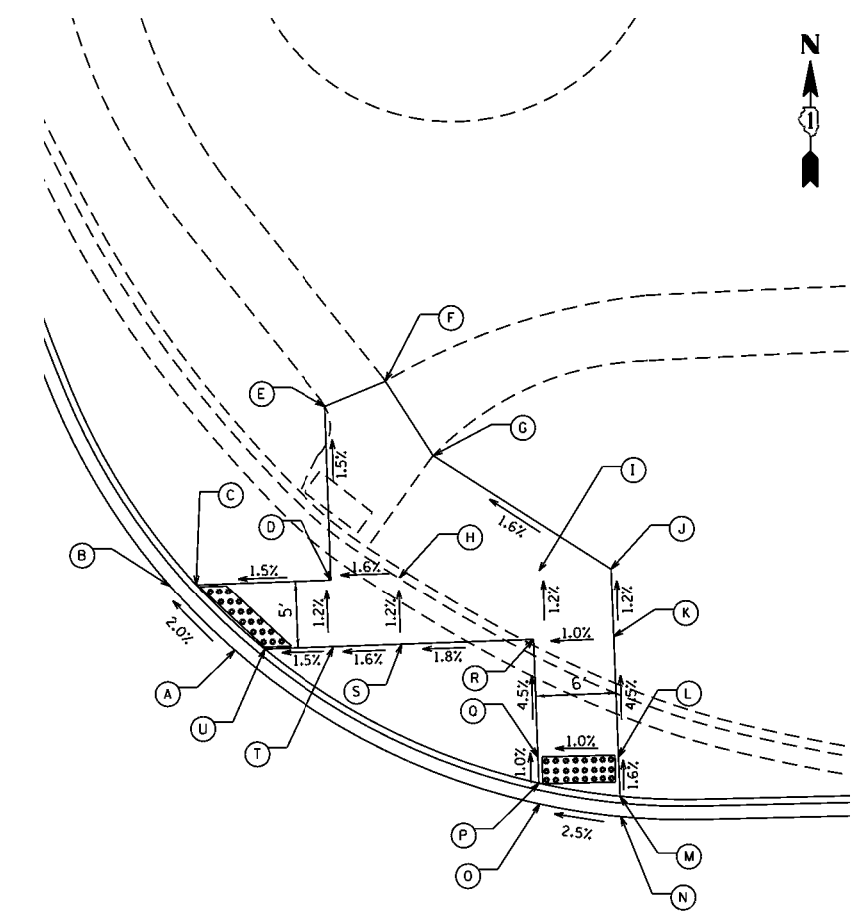
STATIONS AND OFFSETS REFERENCED TO NAPER BLVD CENTERLINE

75TH STREET

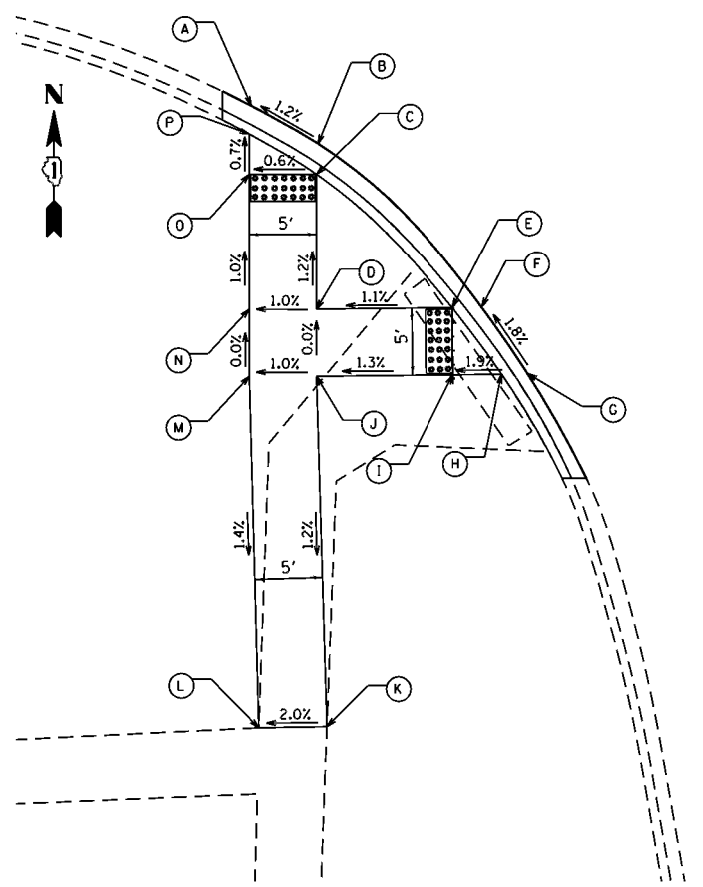
NAPER BOULEVARD

NE CORNER OF 75TH ST AND NAPER BLVD			
POINT	STATION	OFFSET	ELEVATION
A	128+58.98	67.02 RT	707.61
B	128+63.65	62.04 RT	707.43
C	128+63.78	63.99 RT	707.45
D	128+64.47	74.06 RT	707.60
E	128+77.38	73.18 RT	707.41
F	128+79.40	77.63 RT	707.53
G	128+73.99	81.36 RT	707.67
H	128+64.81	79.04 RT	707.68
I	128+65.49	88.93 RT	708.86
J	128+65.97	94.86 RT	707.92
K	128+60.91	95.23 RT	707.98
L	128+52.03	95.87 RT	708.37
M	128+49.04	96.09 RT	708.42
N	128+47.53	96.20 RT	708.45
O	128+48.28	90.13 RT	708.30
P	128+49.82	90.02 RT	708.33
Q	128+51.83	89.88 RT	708.31
R	128+60.50	89.27 RT	707.92
S	128+59.82	79.38 RT	707.74
T	128+59.48	74.39 RT	707.66
U	128+59.13	69.25 RT	707.59

STATIONS AND OFFSETS REFERENCED TO NAPER BLVD CENTERLINE



75TH STREET



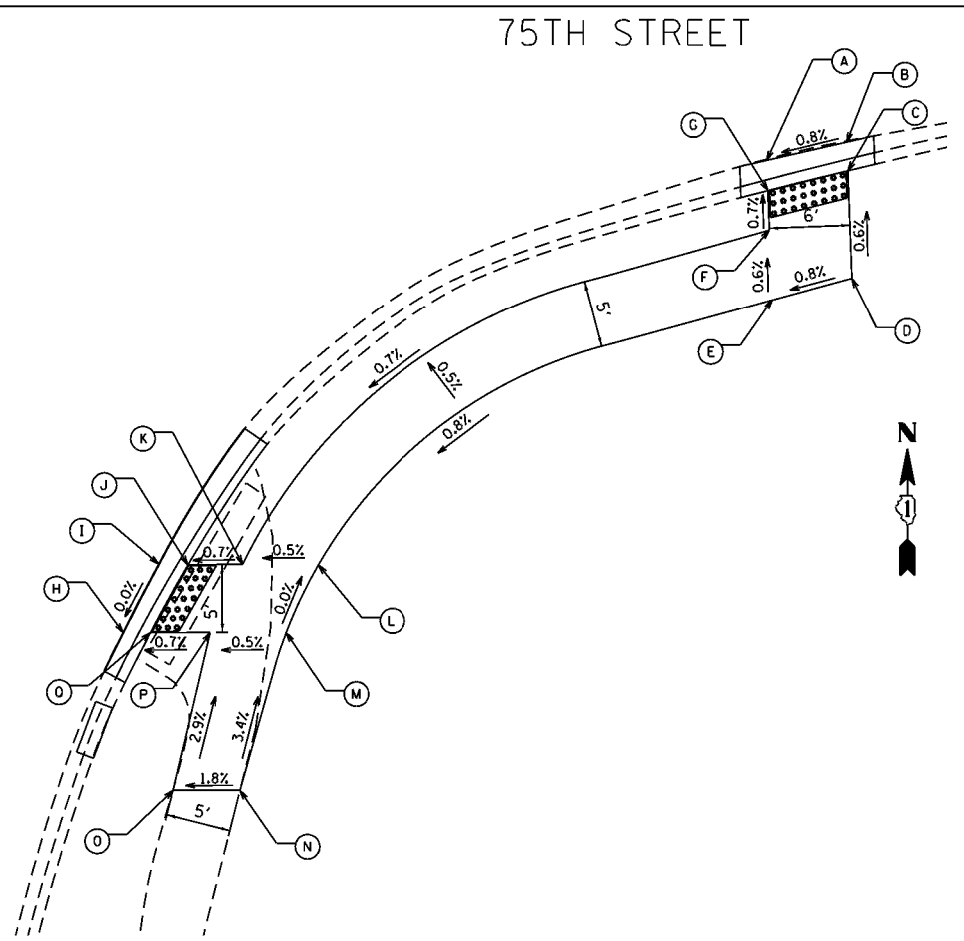
SW CORNER OF 75TH ST AND NAPER BLVD			
POINT	STATION	OFFSET	ELEVATION
A	127+27.83	64.98 LT	706.71
B	127+25.19	59.90 LT	706.78
C	127+22.82	59.82 LT	706.78
D	127+12.76	59.49 LT	706.90
E	127+13.20	49.36 LT	707.01
F	127+13.27	47.15 LT	707.01
G	127+ 8.42	43.56 LT	707.12
H	127+ 8.36	45.50 LT	707.10
I	127+ 8.20	49.11 LT	707.03
J	127+ 7.76	53.33 LT	706.90
K	126+83.16	57.92 LT	706.58
L	126+83.03	63.00 LT	706.47
M	127+ 7.54	64.32 LT	706.85
N	127+12.54	64.49 LT	706.85
O	127+22.66	64.82 LT	706.75
P	127+25.65	64.91 LT	706.73

STATIONS AND OFFSETS REFERENCED TO NAPER BLVD CENTERLINE

NAPER BOULEVARD

SE CORNER OF 75TH ST AND NAPER BLVD			
POINT	STATION	OFFSET	ELEVATION
A	127+49.22	97.06 RT	708.93
B	127+50.77	102.97 RT	708.98
C	127+48.64	103.12 RT	708.98
D	127+40.63	103.68 RT	709.03
E	127+38.82	97.79 RT	708.98
F	127+44.03	97.43 RT	708.95
G	127+46.98	97.22 RT	708.93
H	127+12.52	50.29 RT	708.60
I	127+17.61	52.74 RT	708.60
J	127+17.71	54.94 RT	708.60
K	127+17.88	59.01 RT	708.63
L	127+18.13	64.70 RT	708.66
M	127+12.95	62.43 RT	708.66
N	127+ 1.11	59.35 RT	709.07
O	127+ 0.94	54.38 RT	708.98
P	127+12.75	56.76 RT	708.63
Q	127+12.59	52.32 RT	708.60

STATIONS AND OFFSETS REFERENCED TO NAPER BLVD CENTERLINE



FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDWALK DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F66	

TRAFFIC CONTROL AND PROTECTION

TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN, TRAFFIC SIGNAL PLANS, THESE NOTES, APPLICABLE SPECIAL PROVISIONS, AND SECTION 701 OF THE STANDARD SPECIFICATIONS AS AMENDED BY THE SPECIAL PROVISION FOR WORK ZONE TRAFFIC CONTROL (CHECK SHEET LRS 3).

THE TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 701901 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.

EXISTING TRAFFIC CONTROL SIGNS AND DEVICES MAY BE REMOVED BY THE DUPAGE COUNTY DIVISION OF TRANSPORTATION AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE AT THIS TIME ARE TO BE RELOCATED, MAINTAINED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR AND ANY DAMAGED OR LOST SIGNS WILL BE REPLACED BY THE CONTRACTOR.

TYPE I OR TYPE II BARRICADES, DRUMS, OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS SHALL BE REQUIRED ALONG TEMPORARY ROADS, DETOURS, AND SIDE STREETS TO DELINEATE THE TRAVELED WAY WITHIN THE CONSTRUCTION ZONE. THE MAXIMUM SPACING FOR THESE DEVICES SHALL BE 100 FEET CENTER TO CENTER.

ANY DROP OFF GREATER THAN THREE (3) INCHES WITHIN SIXTEEN (16) FEET OF A TRAVEL LANE SHALL BE PROTECTED BY TYPE I OR TYPE II BARRICADES, DRUMS OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS AT 50 FOOT (MAXIMUM) CENTER TO CENTER SPACING. IF THE DROP OFF IS GREATER THAN TWENTY-FOUR (24) INCHES AND EXISTS FOR LONGER THAN 24 HOURS, IT SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER. TEMPORARY CONCRETE BARRIER SHALL HAVE MONODIRECTIONAL STEADY-BURN LIGHTS AT 50 FOOT (MAXIMUM) CENTER TO CENTER SPACING. THE CONTRACTOR SHALL SCHEDULE HIS WORK AND OPERATIONS SUCH THAT A DROP OFF OF GREATER THAN 24 INCHES DOES NOT REMAIN WITHIN SIXTEEN FEET OF A TRAVEL LANE FOR MORE THAN 24 HOURS. THE CONTRACTOR MAY PLACE COMPACTED EXCAVATED MATERIAL, AGGREGATE, OR OTHER MATERIAL IN THE DROP OFF TO SATISFY THIS REQUIREMENT. THE PLANS INDICATE AREAS (IF ANY) IN WHICH THE DEPARTMENT EXPECTS THAT TEMPORARY CONCRETE BARRIER WILL BE REQUIRED FOR A DROP OFF OF GREATER THAN 24 INCHES TO REMAIN FOR MORE THAN 24 HOURS.

BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.

WHERE REQUIRED, TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH STAGE OF CONSTRUCTION.

ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES.

PRIOR TO THE START OF CONSTRUCTION, REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.

CONTRACTOR SHALL MAINTAIN ACCESSIBLE CROSSWALKS DURING ALL STAGES OF CONSTRUCTION.

THE FOLLOWING TRAFFIC CONTROL STANDARDS ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC CONTROL FOR THIS PROJECT:

- 701101-05 Off-Road Operations, Multilane, 15'(4.5m)-24'(600mm) to Pavement Edge
- 701106-02 Off-Road Operations, Multilane, More Than 15'(4.5m) Away
- 701421-08 Lane Closure, Multilane, Day Operations Only, For Speeds > 45 MPH TO 55 MPH
- 701426-09 Lane Closure, Multilane, Intermittent or Moving Operations, For Speeds > 45 MPH
- 701427-05 Lane Closure, Multilane, Intermittent or Moving Operations, For Speeds >= 40 MPH
- 701701-10 Urban Lane Closure, Multilane Intersection
- 701801-06 Sidewalk, Corner or Crosswalk Closure
- 701901-08 Traffic Control Devices

CONSTRUCTION STAGING

LONG-TERM LANE CLOSURES WILL NOT BE ALLOWED.

DAILY LANE CLOSURES ARE ALLOWED AS FOLLOWS:

- o WESTBOUND 75TH STREET: PRIOR TO 4 P.M.
 - o EASTBOUND 75TH STREET: AFTER 8 A.M.
 - o NORTHBOUND NAPER BOULEVARD: AFTER 8 A.M.
 - o SOUTHBOUND NAPER BOULEVARD: PRIOR TO 4 P.M.
- ANY LANE CLOSURE IN PLACE OUTSIDE THE ALLOWABLE TIME PERIODS WILL BE CONSIDERED A TRAFFIC CONTROL DEFICIENCY.

PEDESTRIAN ACCESS MAY BE MAINTAINED THROUGH A COMBINATION OF EXISTING OR PROPOSED PEDESTRIAN ROUTES AND THE USE OF TEMPORARY SIDEWALK. THE CONTRACTOR SHALL PLAN THE SEQUENCE OF WORK SUCH THAT PEDESTRIAN ACCESS IS MAINTAINED THROUGH THE PROJECT LIMITS WITH AT LEAST THE FOLLOWING MINIMUM LEVELS OF ACCESS:

- o CROSSWALKS ACROSS EAST AND WEST LEGS OF 75TH STREET AND RECEIVING CURB RAMPS: EITHER THE EAST SIDE OR THE WEST SIDE MUST BE IN SERVICE AT ANY GIVEN TIME WHILE THE OTHER SIDE MAY BE CLOSED TO PEDESTRIAN ACCESS.
- o CROSSWALKS ACROSS NORTH AND SOUTH LEGS OF NAPER BOULEVARD AND RECEIVING CURB RAMPS: EITHER THE NORTH SIDE OR THE SOUTH SIDE MUST BE IN SERVICE. AT ANY GIVEN TIME WHILE THE OTHER SIDE MAY BE CLOSED TO PEDESTRIAN ACCESS.

THE FOLLOWING IS THE CONSTRUCTION STAGING FOR THIS PROJECT. THE PURPOSE OF THIS STAGING IS TO MINIMIZE DELAYS TO THE MOTORIST. THE CONTRACTOR MAY ALTER THE SEQUENCE OF CONSTRUCTION WITH THE PRIOR APPROVAL OF THE ENGINEER.

STAGE 1:

- o INSTALL TRAFFIC CONTROL DEVICES
- o INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES
- o INSTALL TEMPORARY TRAFFIC SIGNALS
- o REMOVE EXISTING TRAFFIC SIGNALS

STAGE 2: UNDER HIGHWAY STANDARDS 701421-08 & 701701-10

- o ISLAND REMOVAL
- o PAVEMENT IN ISLAND AREA:
 - PCC BASE COURSE
 - HMA BINDER AND SURFACE COURSE

STAGE 3: UNDER HIGHWAY STANDARDS 701421-08, 701701-10, & 701801-06

- o RECONSTRUCT NORTHEAST CORNER
 - SAWCUT PROPOSED PAVEMENT EDGE
 - REMOVE PAVEMENT AND CURB & GUTTER
 - CONSTRUCT PROPOSED CURB & GUTTER AND SIDEWALK
- o CONSTRUCT CURB RAMP AND SIDEWALK FOR EAST LEG CROSSWALK IN SOUTHEAST CORNER

STAGE 4: UNDER HIGHWAY STANDARDS 701421-08, 701701-10, & 701801-06

- o CONSTRUCT NEW CURB RAMPS AND SIDEWALK IN NORTHWEST CORNER
- o CONSTRUCT NEW CURB RAMPS AND SIDEWALK FOR WEST LEG CROSSWALK IN SOUTHWEST CORNER

STAGE 5: UNDER HIGHWAY STANDARDS 701701-10 & 701801-06

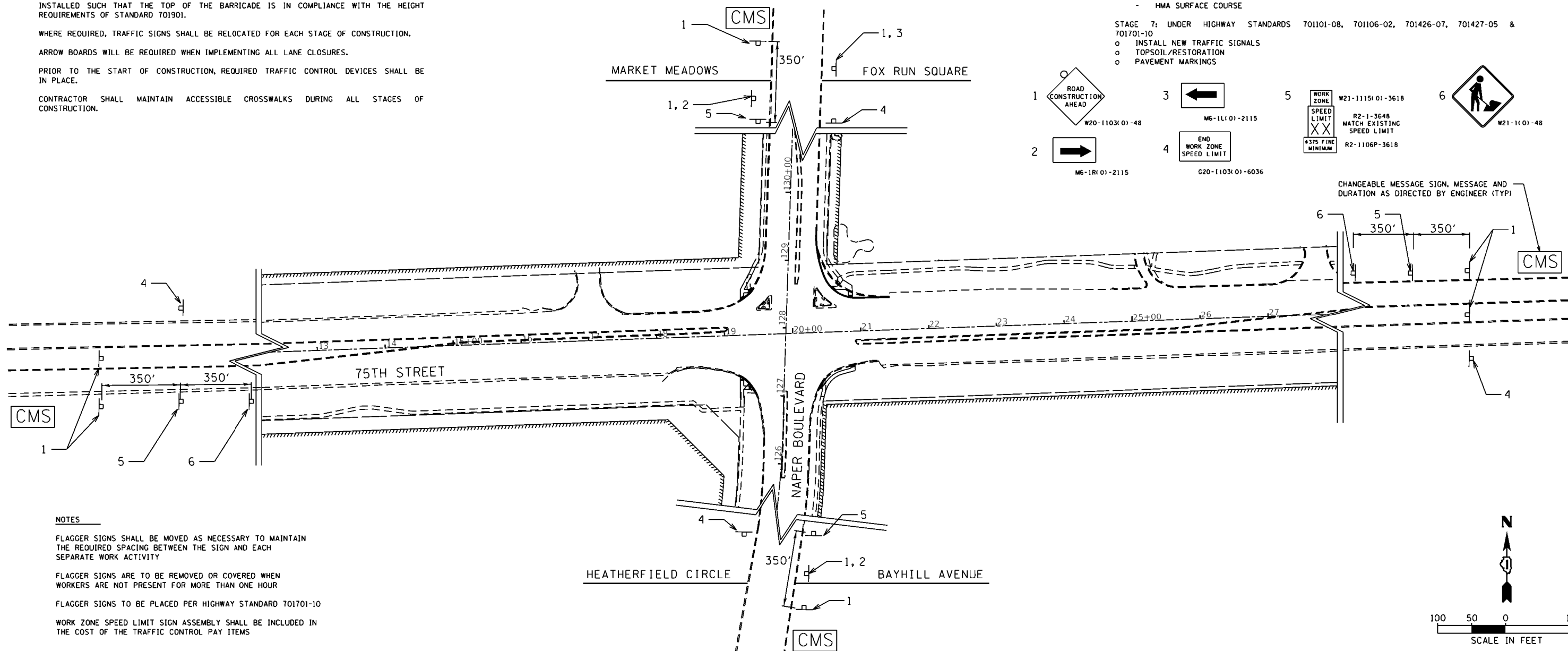
- o CONSTRUCT NEW CURB RAMP AND SIDEWALK FOR SOUTH LEG CROSSWALK IN SOUTHWEST CORNER
- o CONSTRUCT NEW CURB RAMP AND SIDEWALK FOR SOUTH LEG CROSSWALK IN SOUTHEAST CORNER

STAGE 6: UNDER HIGHWAY STANDARDS 701421-08 & 701701-10

- o 75TH STREET LEFT TURN LANES
 - HMA SURFACE REMOVAL
 - HMA SURFACE COURSE

STAGE 7: UNDER HIGHWAY STANDARDS 701101-08, 701106-02, 701426-07, 701427-05 & 701701-10

- o INSTALL NEW TRAFFIC SIGNALS
- o TOPSOIL/RESTORATION
- o PAVEMENT MARKINGS



NOTES

FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGN AND EACH SEPARATE WORK ACTIVITY

FLAGGER SIGNS ARE TO BE REMOVED OR COVERED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

FLAGGER SIGNS TO BE PLACED PER HIGHWAY STANDARD 701701-10

WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL PAY ITEMS

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

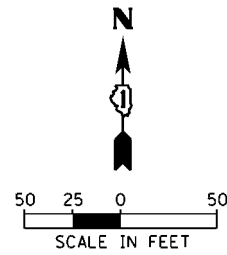
MAINTENANCE OF TRAFFIC

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

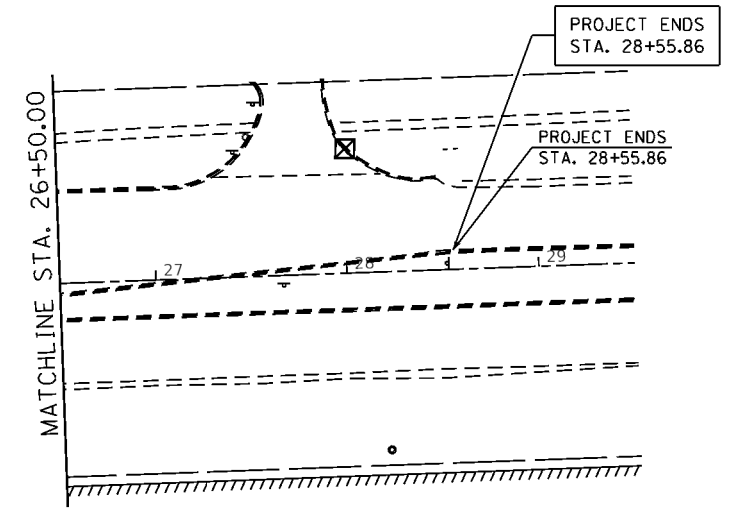
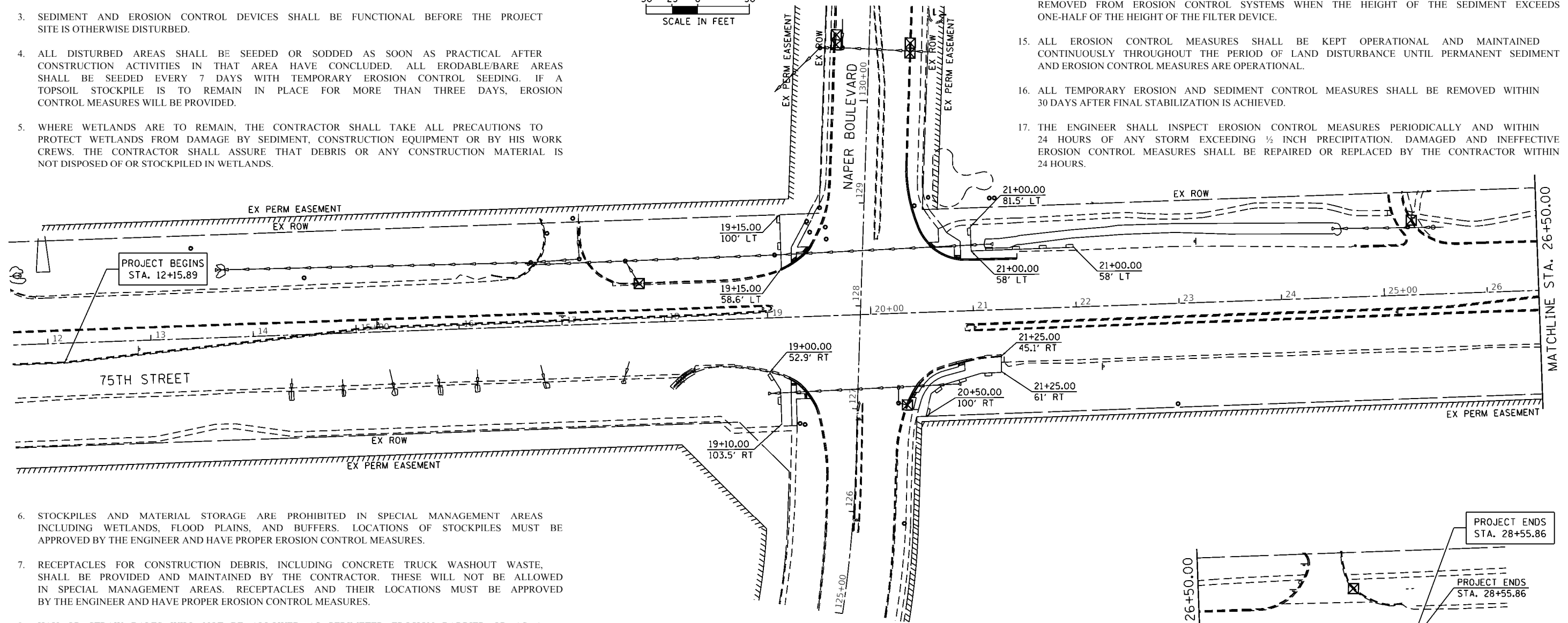
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	15
CONTRACT NO. 61F66			ILLINOIS FED. AID PROJECT	

EROSION CONTROL NOTES

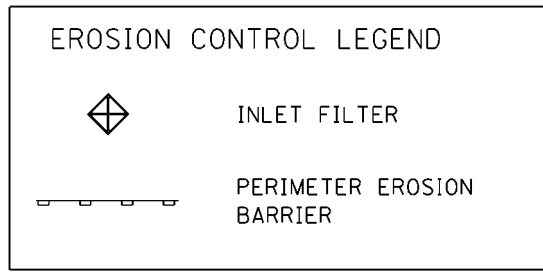
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE VII OF THE DuPAGE COUNTY COUNTYWIDE STORMWATER AND FLOOD PLAIN ORDINANCE, EFFECTIVE APRIL 2013 AND ALL SUBSEQUENT REVISIONS. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PER IDOT STANDARD 280001 OR AS SPECIFIED HEREIN AND PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMITS ILR10 AND ILR40.
2. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.
3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
4. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE SEEDED EVERY 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED.
5. WHERE WETLANDS ARE TO REMAIN, THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF OR STOCKPILED IN WETLANDS.



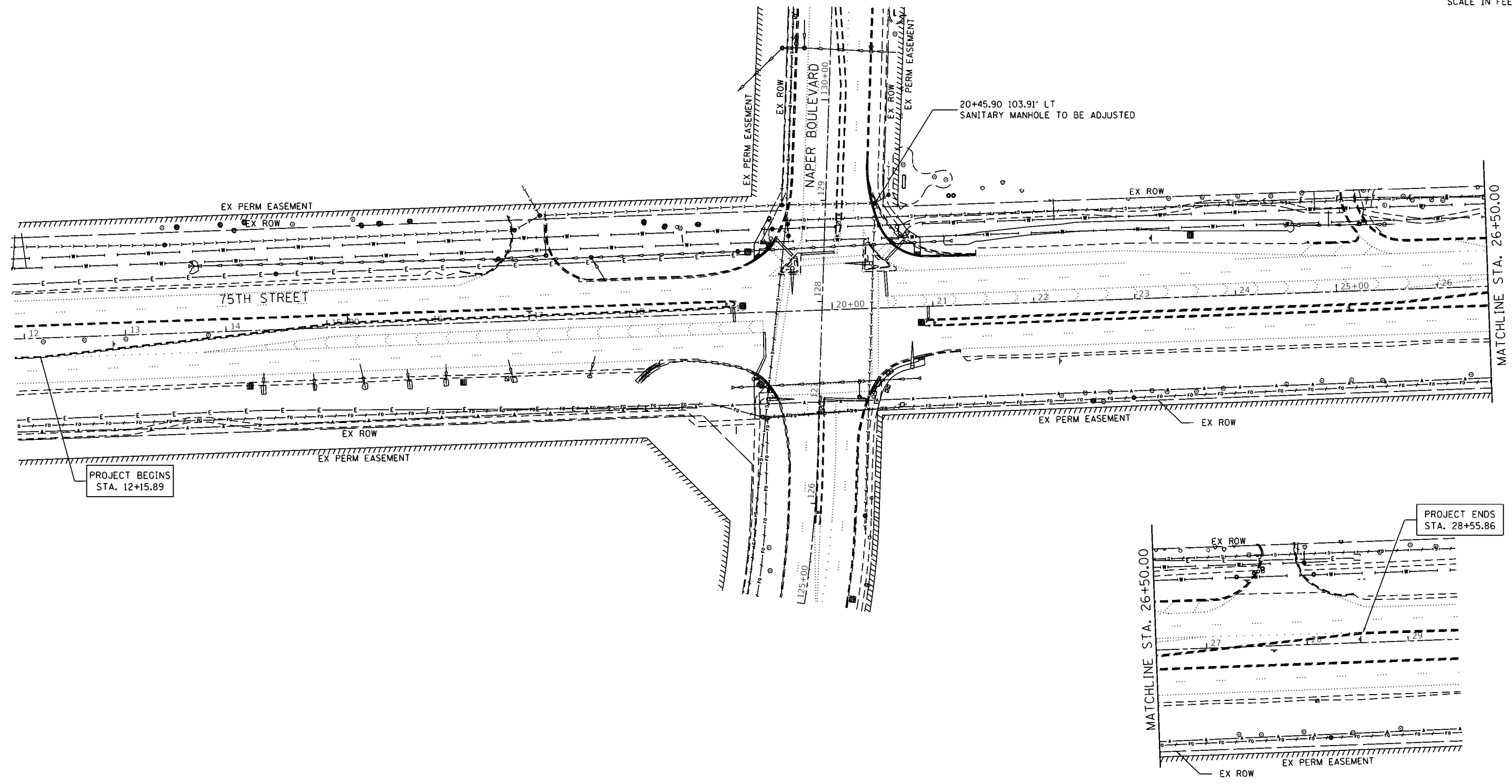
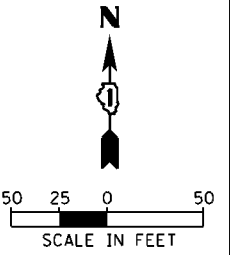
12. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.
13. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
14. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.
15. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.
17. THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS.



6. STOCKPILES AND MATERIAL STORAGE ARE PROHIBITED IN SPECIAL MANAGEMENT AREAS INCLUDING WETLANDS, FLOOD PLAINS, AND BUFFERS. LOCATIONS OF STOCKPILES MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.
7. RECEPTACLES FOR CONSTRUCTION DEBRIS, INCLUDING CONCRETE TRUCK WASHOUT WASTE, SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR. THESE WILL NOT BE ALLOWED IN SPECIAL MANAGEMENT AREAS. RECEPTACLES AND THEIR LOCATIONS MUST BE APPROVED BY THE ENGINEER AND HAVE PROPER EROSION CONTROL MEASURES.
8. HAY OR STRAW BALES WILL NOT BE ALLOWED AS PERIMETER EROSION BARRIER OR AS A DITCH CHECK.
9. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED
10. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.
11. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.
12. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN -	REVISED -				0369	17-00233-03-5P	DUPAGE	53	16
	PLOT DATE =	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 61F66		
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



PROJECT BEGINS
STA. 12+15.89

PROJECT ENDS
STA. 28+55.86

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
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		DATE -	REVISED -

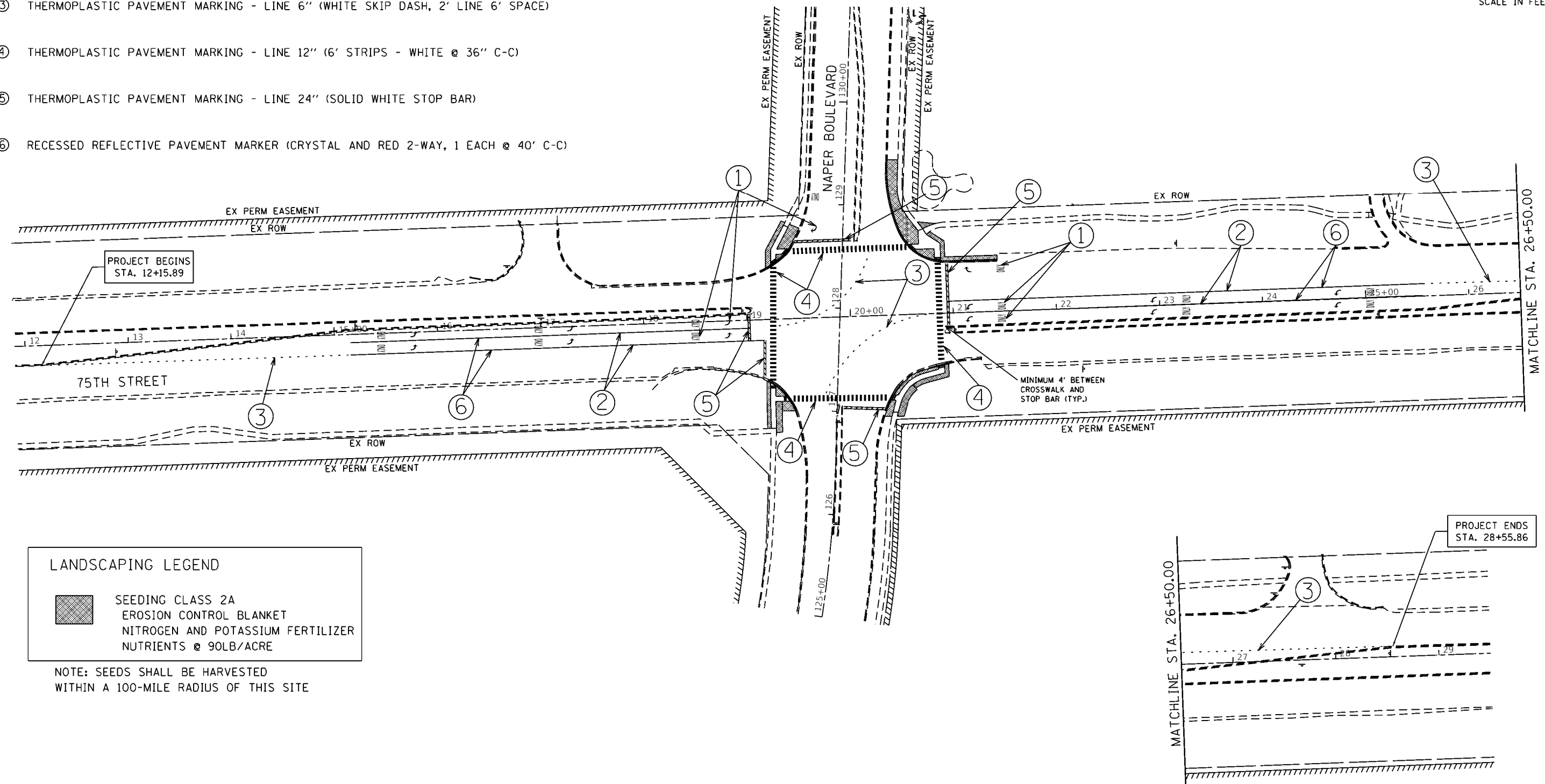
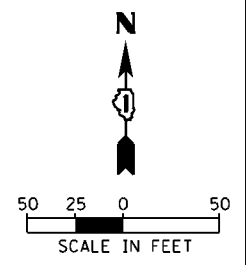
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE AND UTILITY PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	17
CONTRACT NO. 61F66			ILLINOIS FED. AID PROJECT	

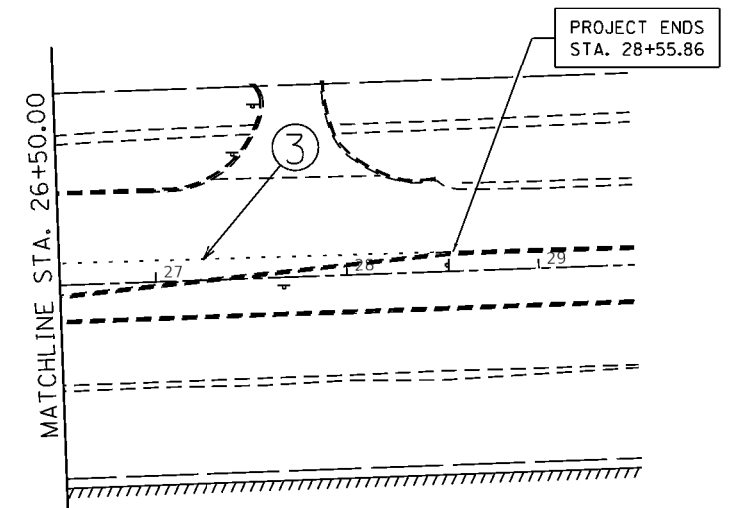
- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 6" (SOLID WHITE)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP DASH, 2' LINE 6' SPACE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (6' STRIPS - WHITE @ 36" C-C)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE STOP BAR)
- ⑥ RECESSED REFLECTIVE PAVEMENT MARKER (CRYSTAL AND RED 2-WAY, 1 EACH @ 40' C-C)



LANDSCAPING LEGEND

SEEDING CLASS 2A
EROSION CONTROL BLANKET
NITROGEN AND POTASSIUM FERTILIZER
NUTRIENTS @ 90LB/ACRE

NOTE: SEEDS SHALL BE HARVESTED
WITHIN A 100-MILE RADIUS OF THIS SITE



FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKINGS & LANDSCAPING PLAN		F.A.P. RTE. 0369	SECTION 17-00233-03-SP	COUNTY DUPAGE	TOTAL SHEETS 53	SHEET NO. 18	
		DRAWN -	REVISED -		SCALE: 1"=50'	SHEET 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 61F66			
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

TRAFFIC SIGNAL LEGEND

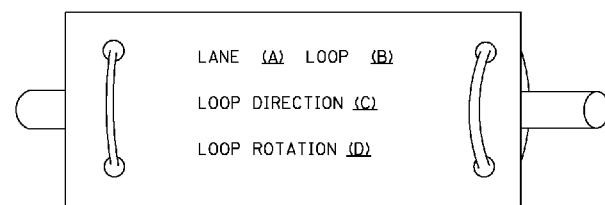
(NOT TO SCALE)

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

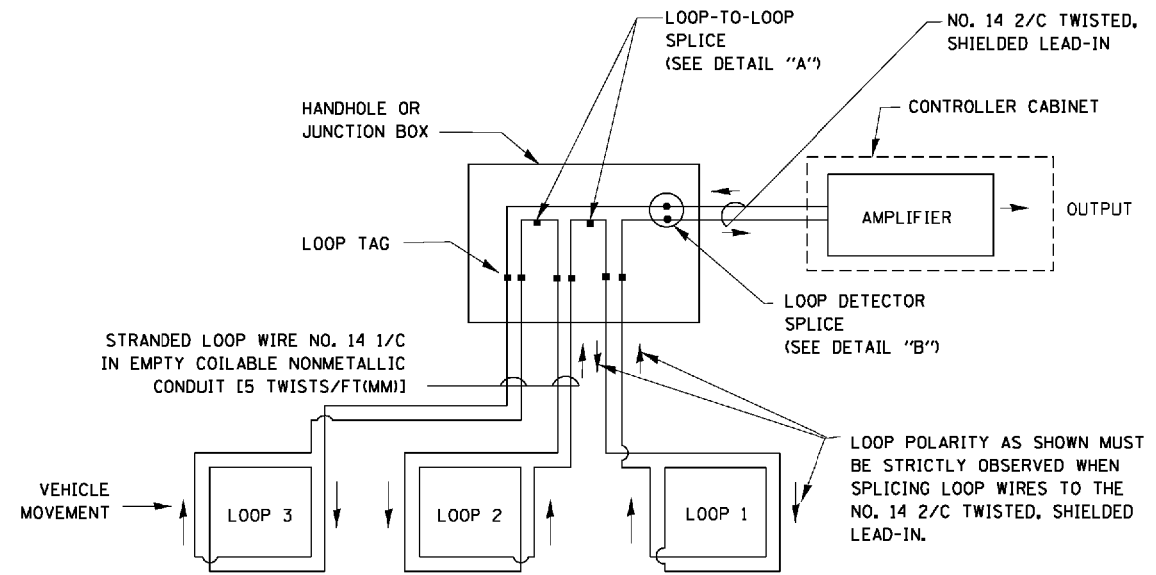
LOOP DETECTOR NOTES

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.

LOOP LEAD-IN CABLE TAG

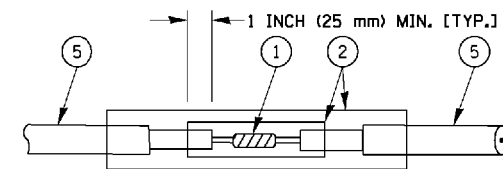


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

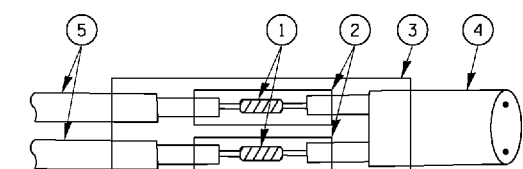


DETECTOR LOOP WIRING SCHEMATIC

- 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.

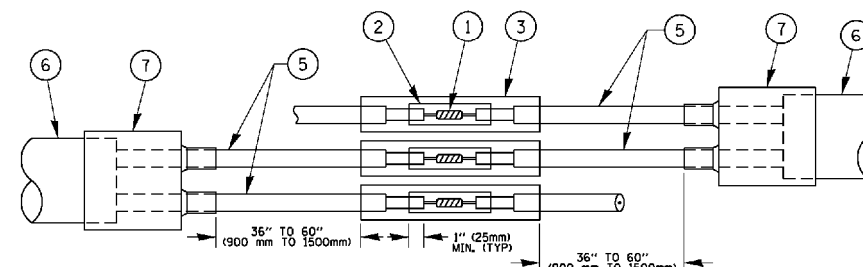


DETAIL "A"
LOOP-TO-LOOP SPLICE

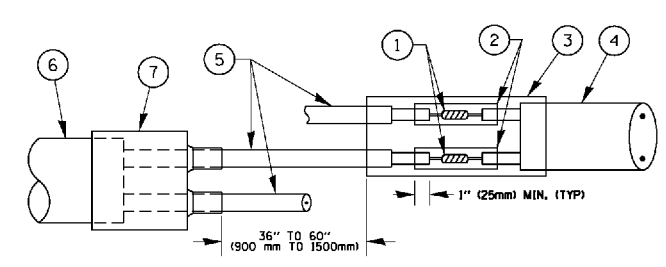


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

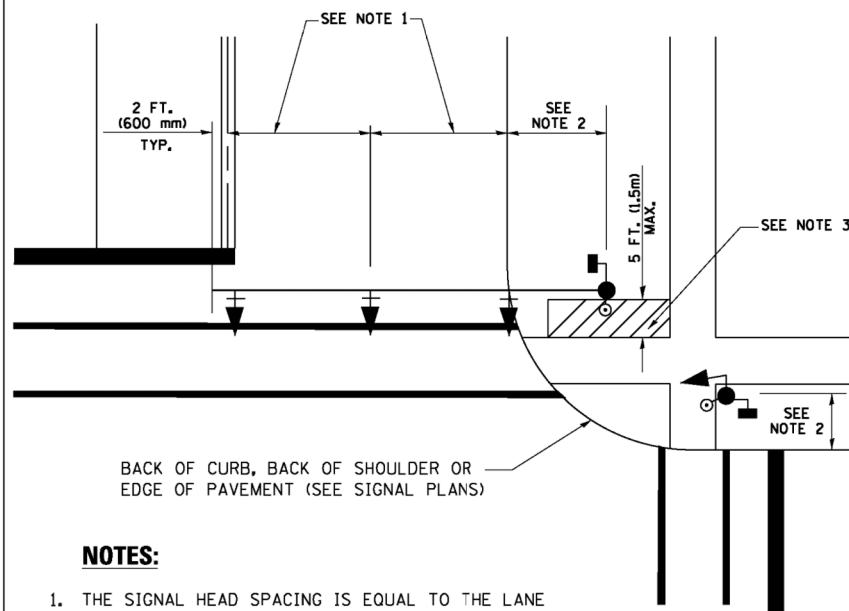
PREFORMED LOOP

LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = faotemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 0369	SECTION 17-00233-03-SP	COUNTY DUPAGE	TOTAL SHEETS 53	SHEET NO. 20
CONTRACT NO. 61F66	SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.			TS-05		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
PLOT SCALE = 5/8" = 1' / in.	CHECKED - DAD	REVISIED -	DATE - 10-28-09			CONTRACT NO. 61F66				
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISIED -				CONTRACT NO. 61F66				

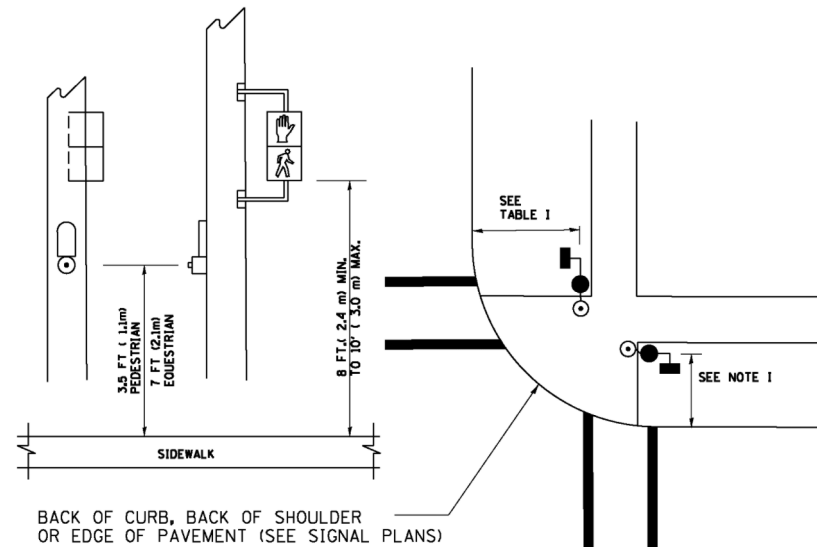
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

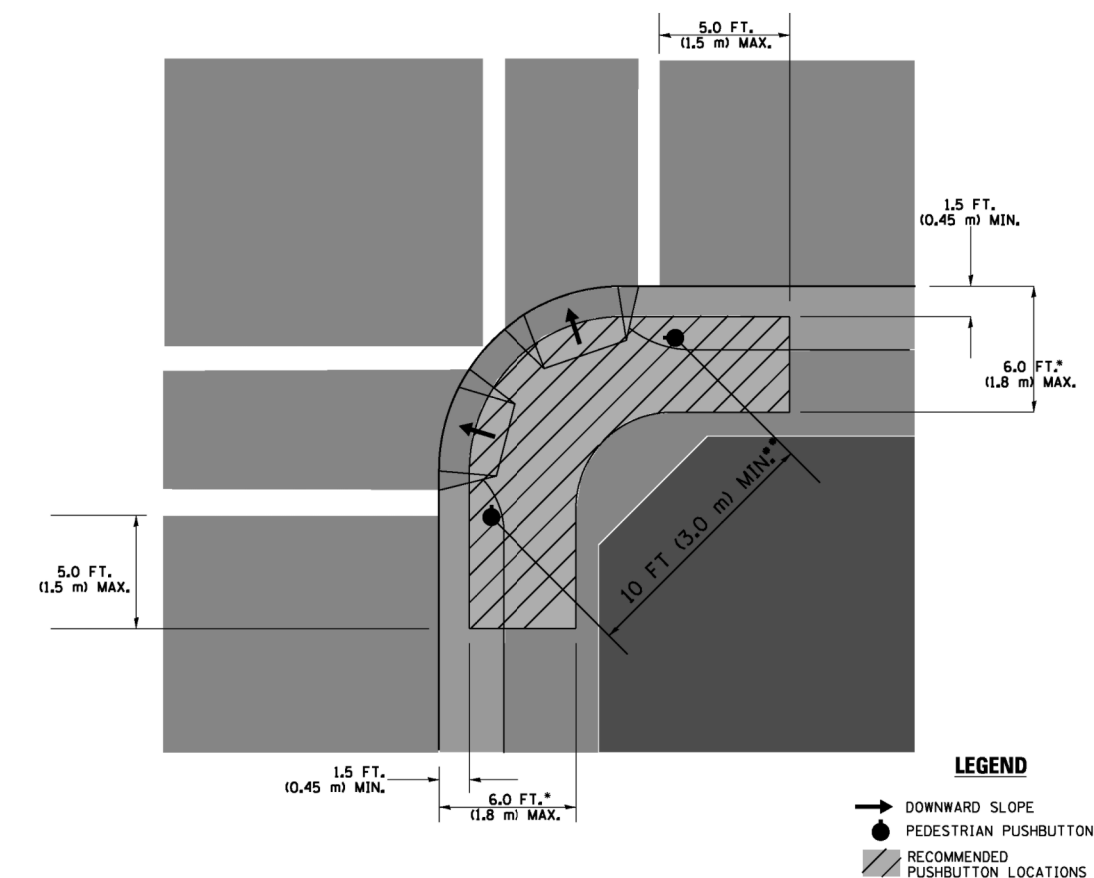
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

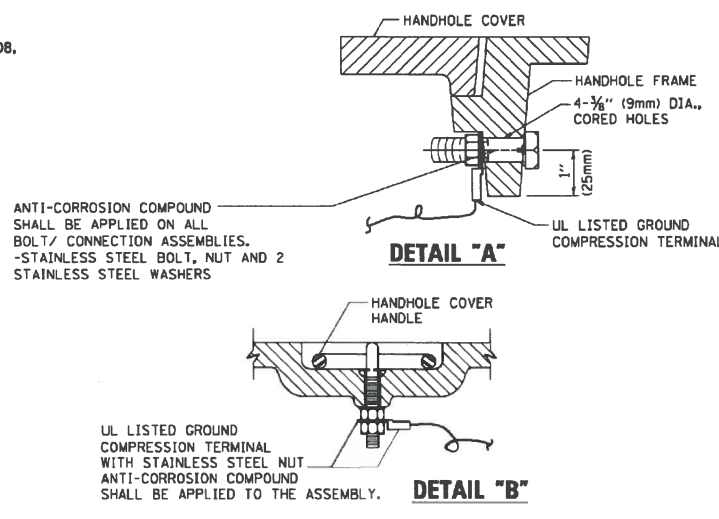
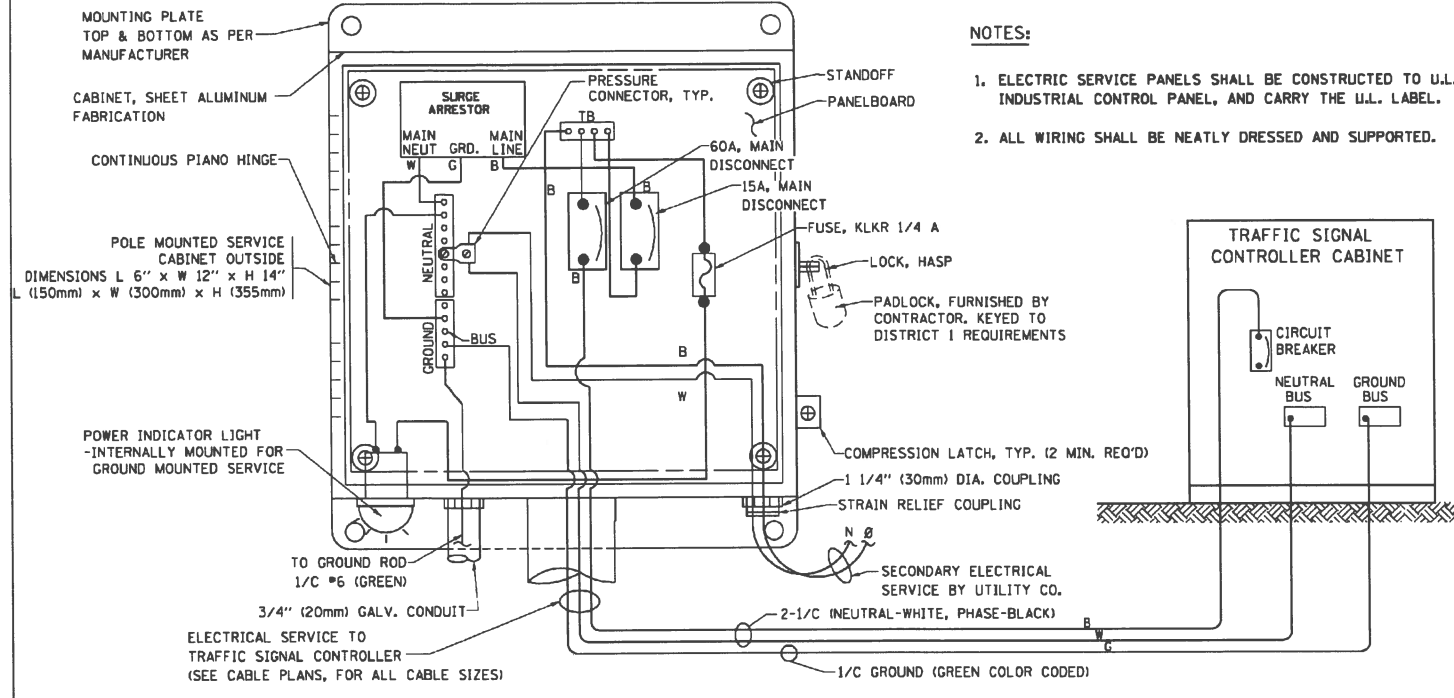
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

TRAFFIC SIGNAL EQUIPMENT OFFSET

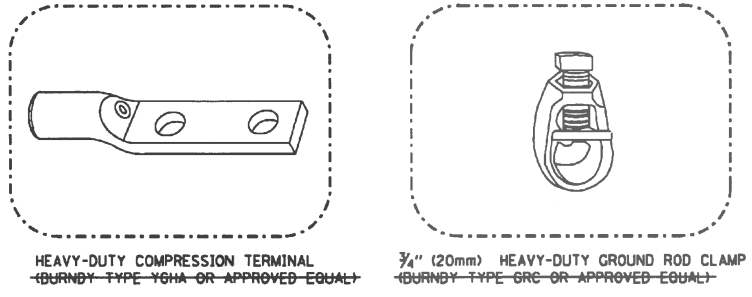
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

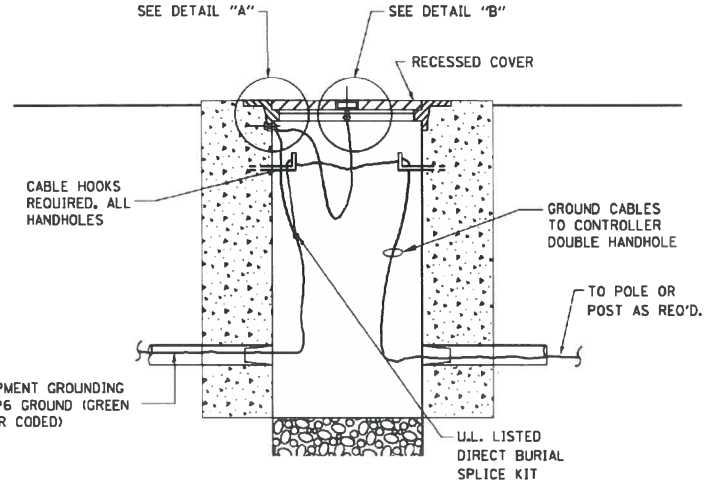
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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



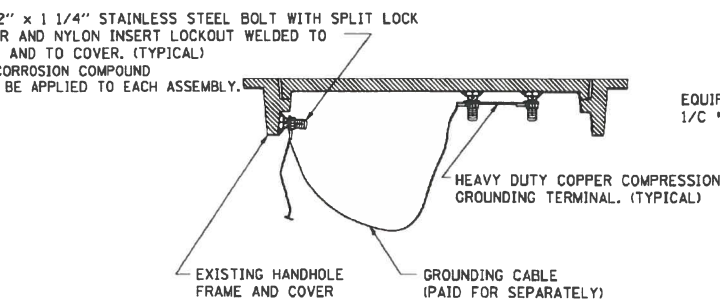
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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



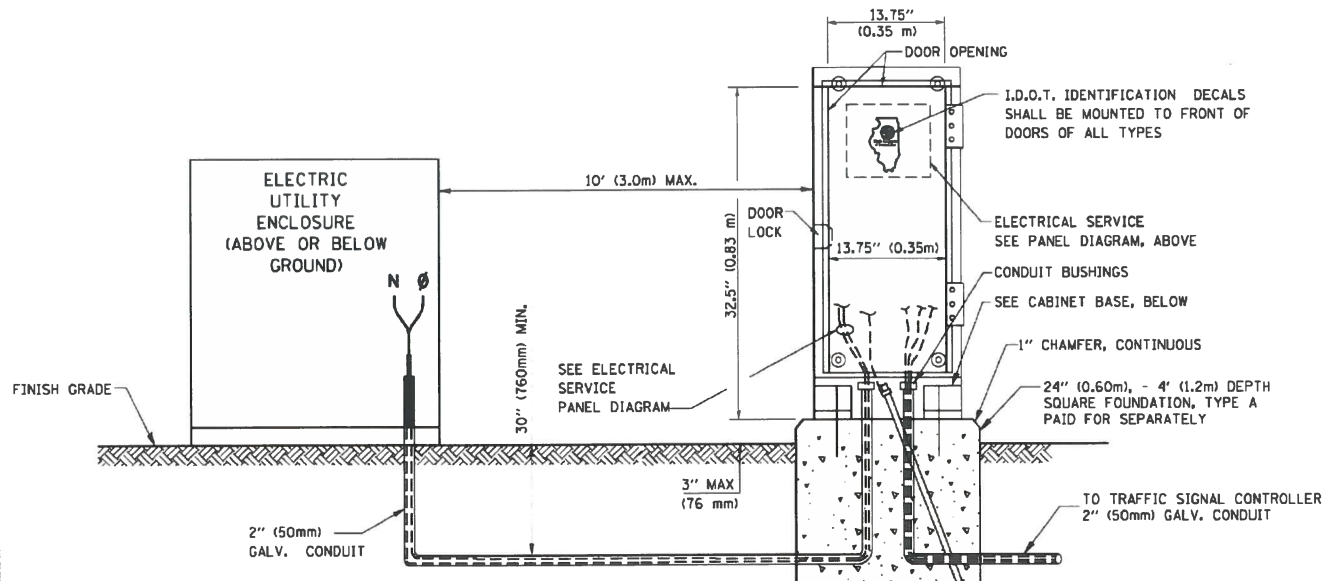
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



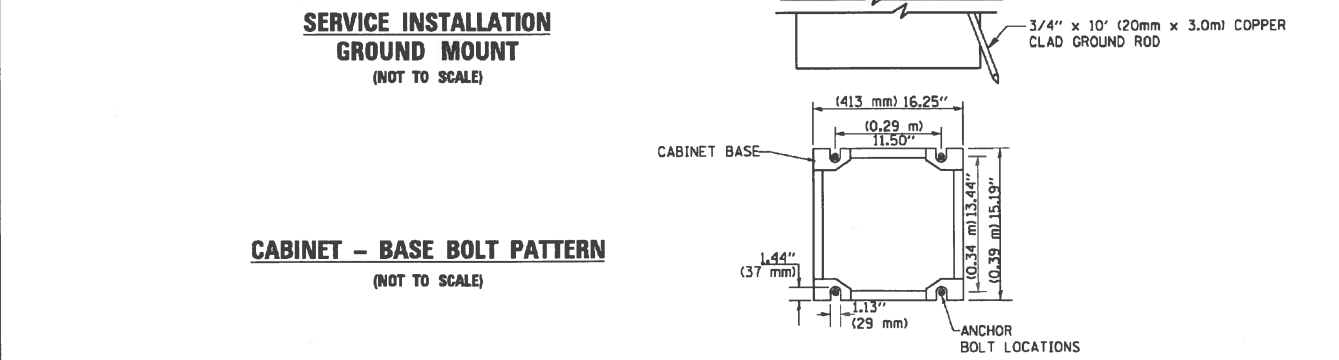
HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



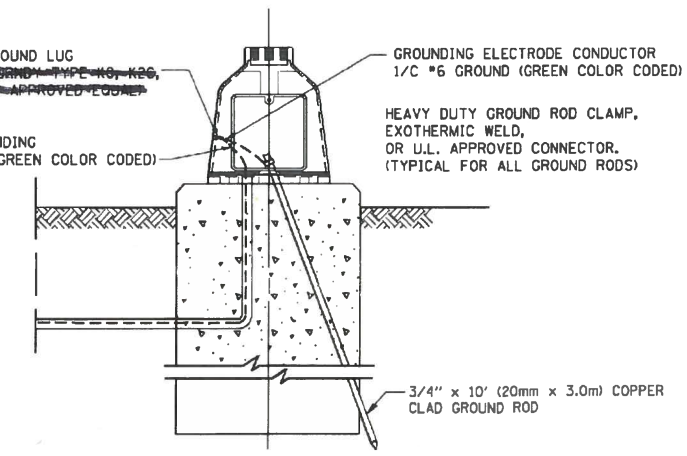
EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



CABINET - BASE BOLT PATTERN (NOT TO SCALE)



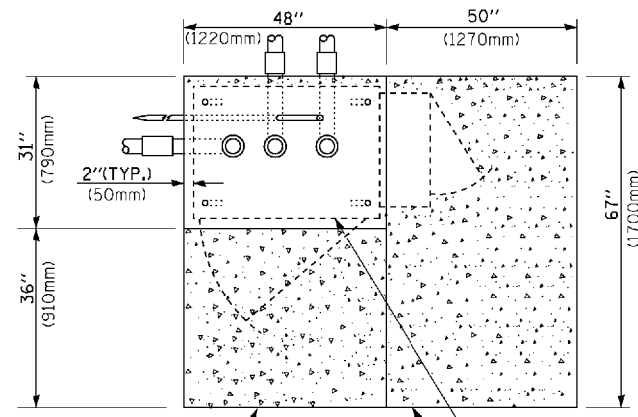
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

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PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

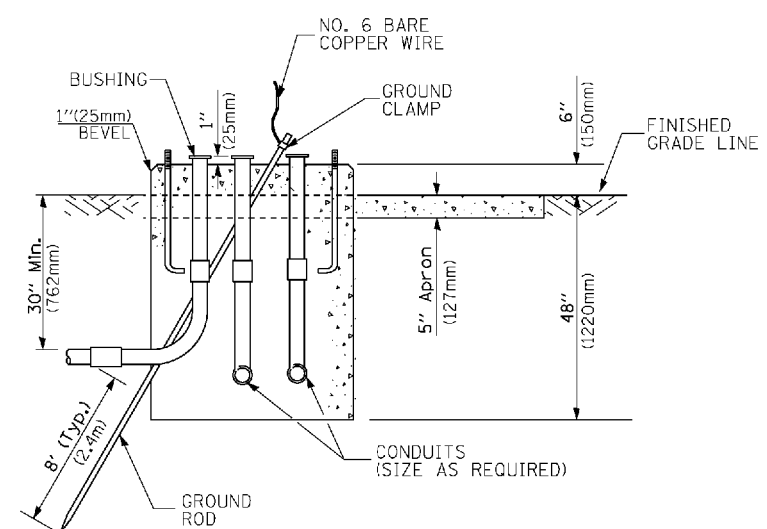
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

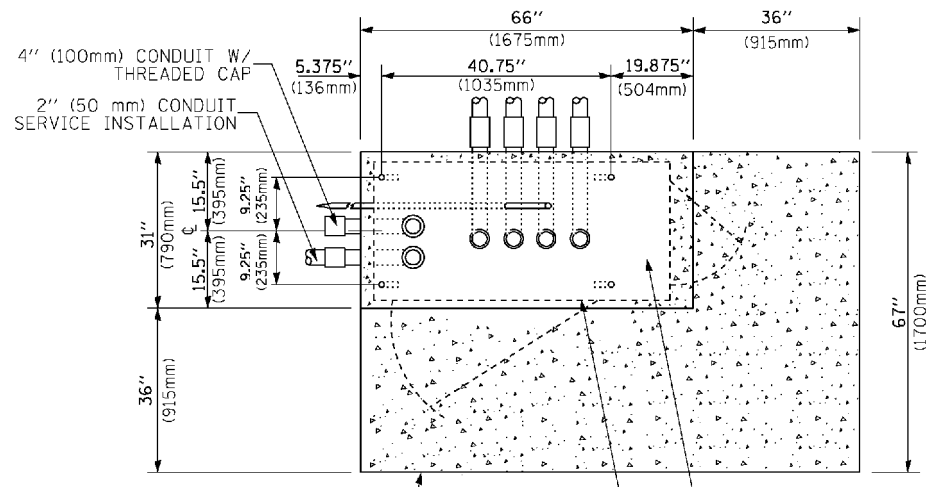
F.A.P. RTE. 0369	SECTION 17-00233-03-SP	COUNTY DUPAGE	TOTAL SHEETS 53	SHEET NO. 22
TS-05		CONTRACT NO. 61F66		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



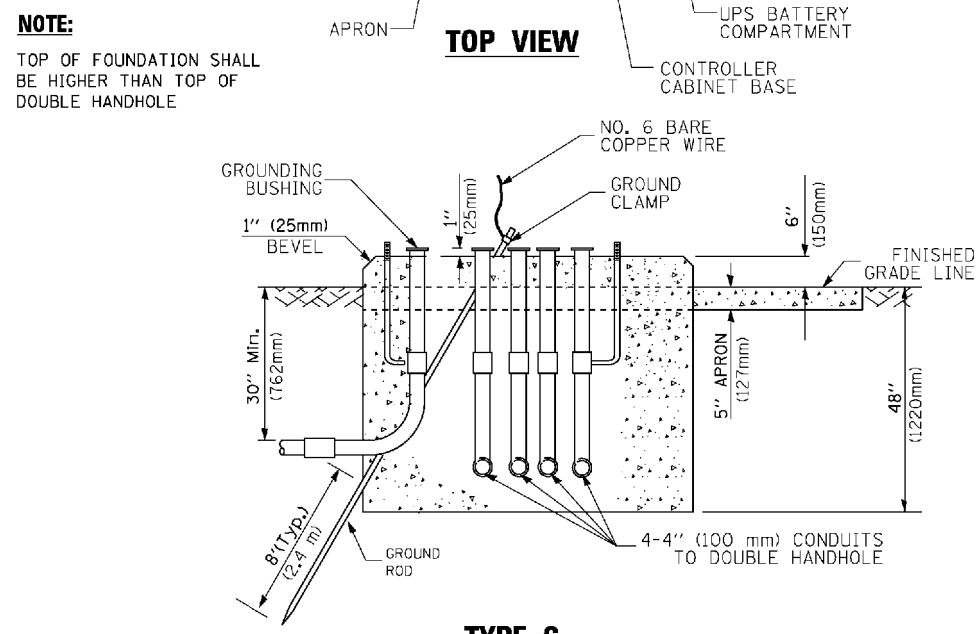
TOP VIEW



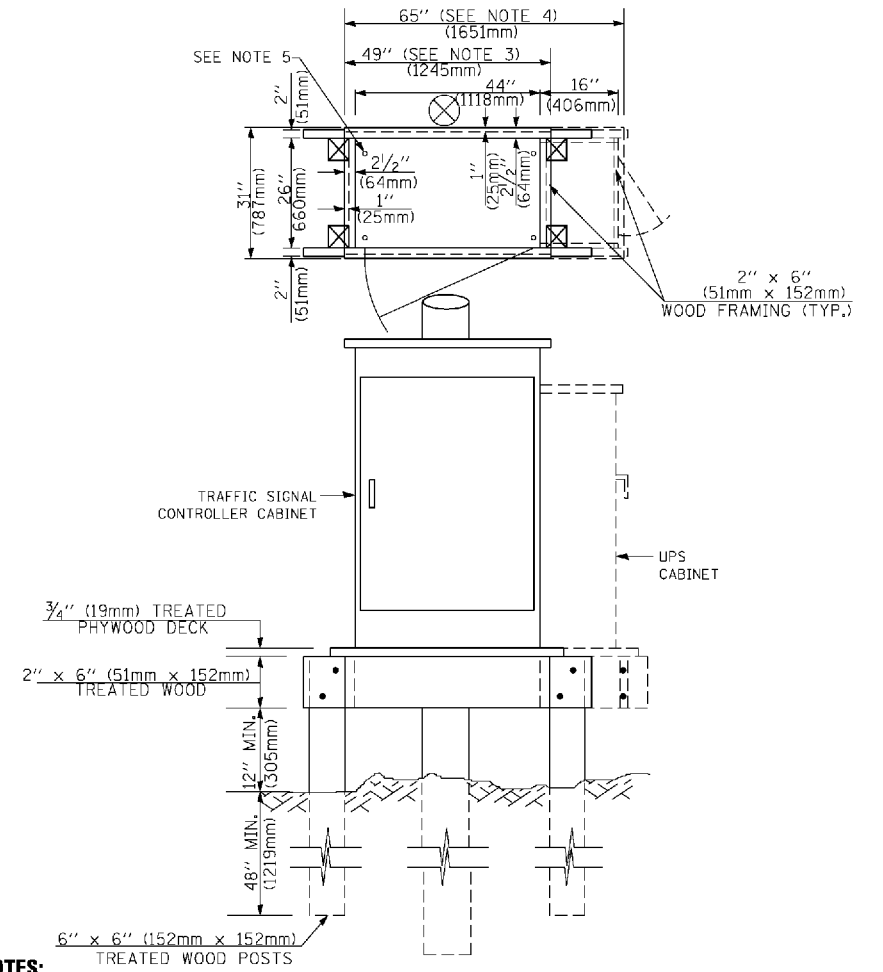
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

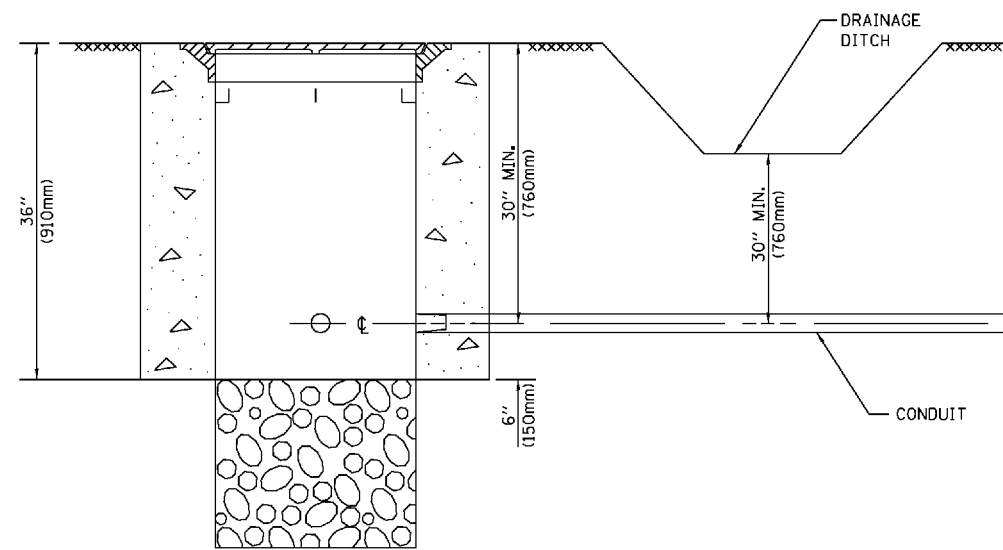
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

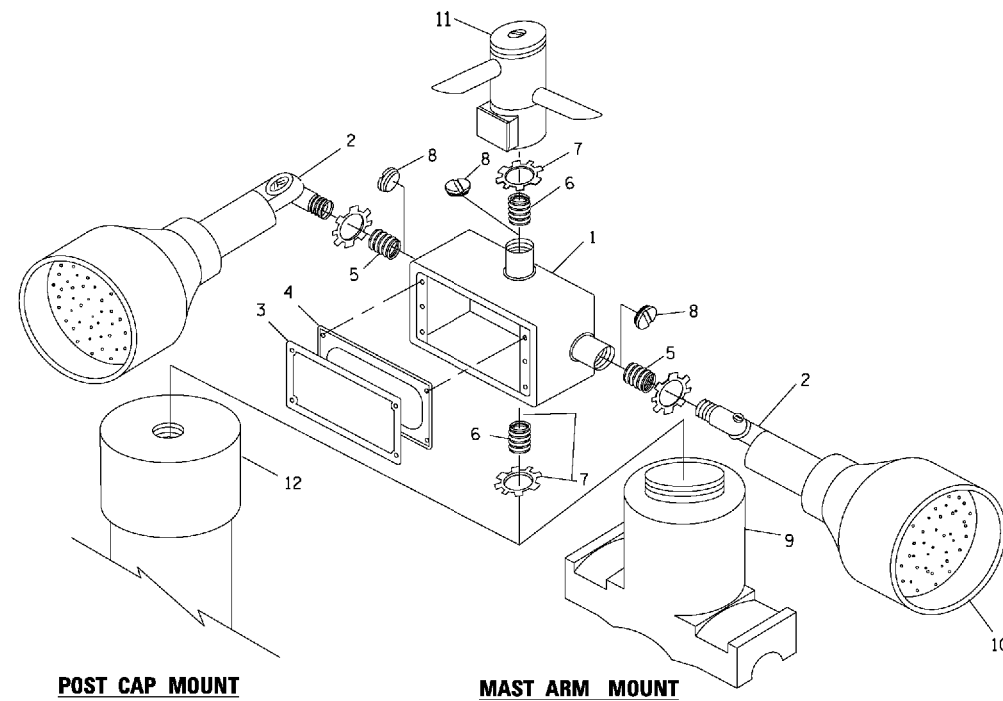
FILE NAME =	USER NAME = foatemj	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED - DAD	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	TS-05		CONTRACT NO. 61F66
		DATE - 10-28-09	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



NOTES:

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

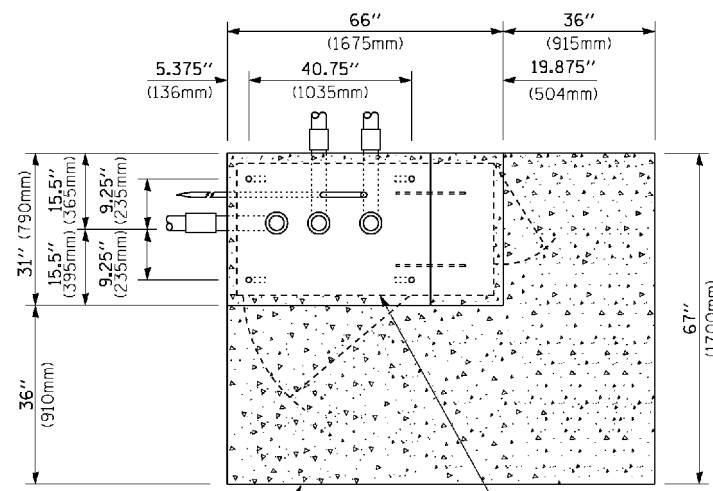
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



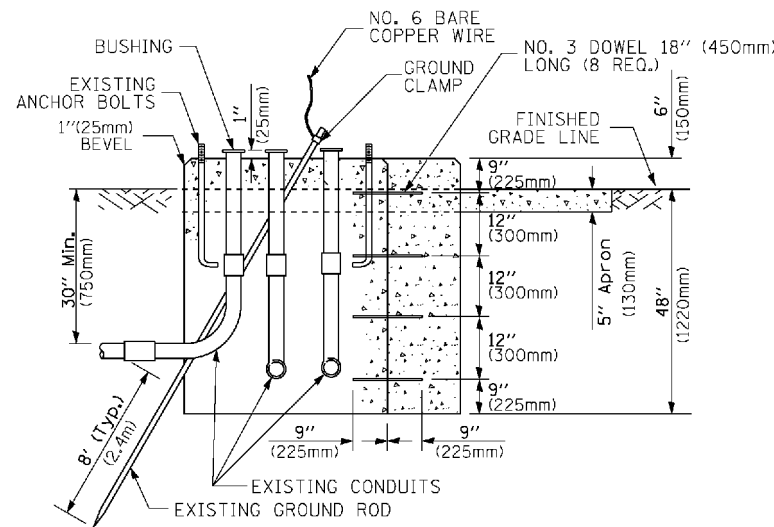
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

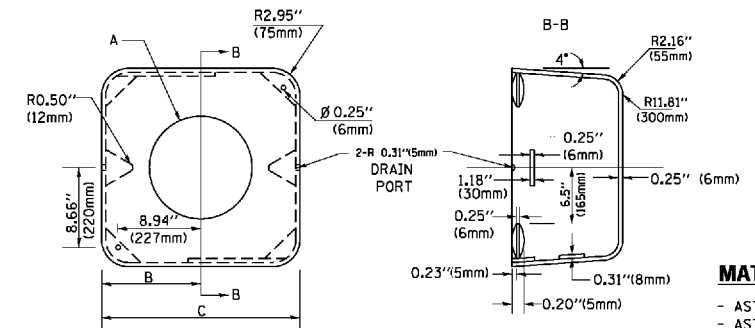


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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/GEENEY FSX 1-50 OR EQUIVALENT
ITEM #2 - MULBERRY CON 0 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.



MATERIAL:

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

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

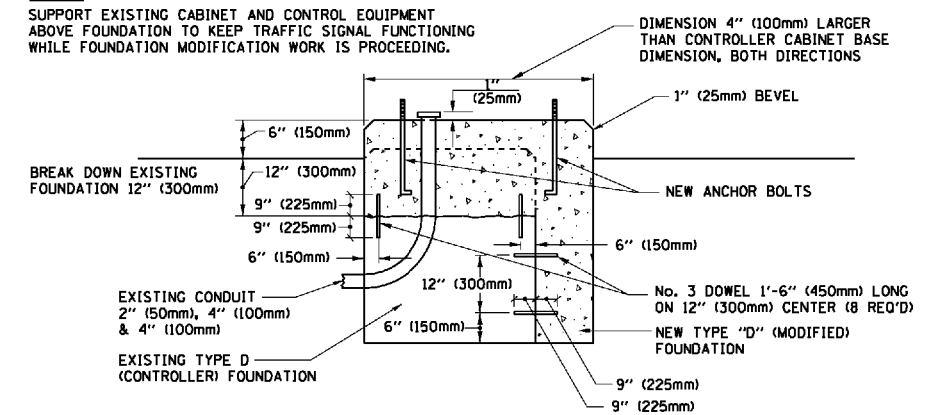
SHROUD

NOTES:

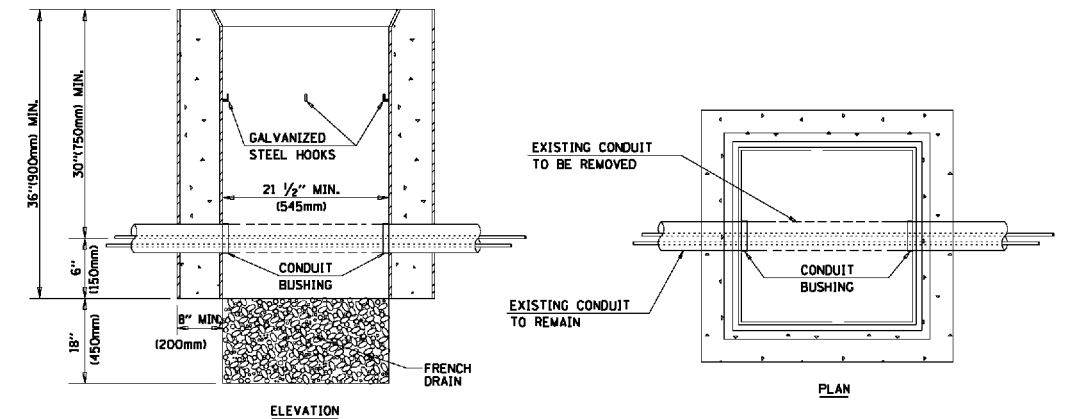
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

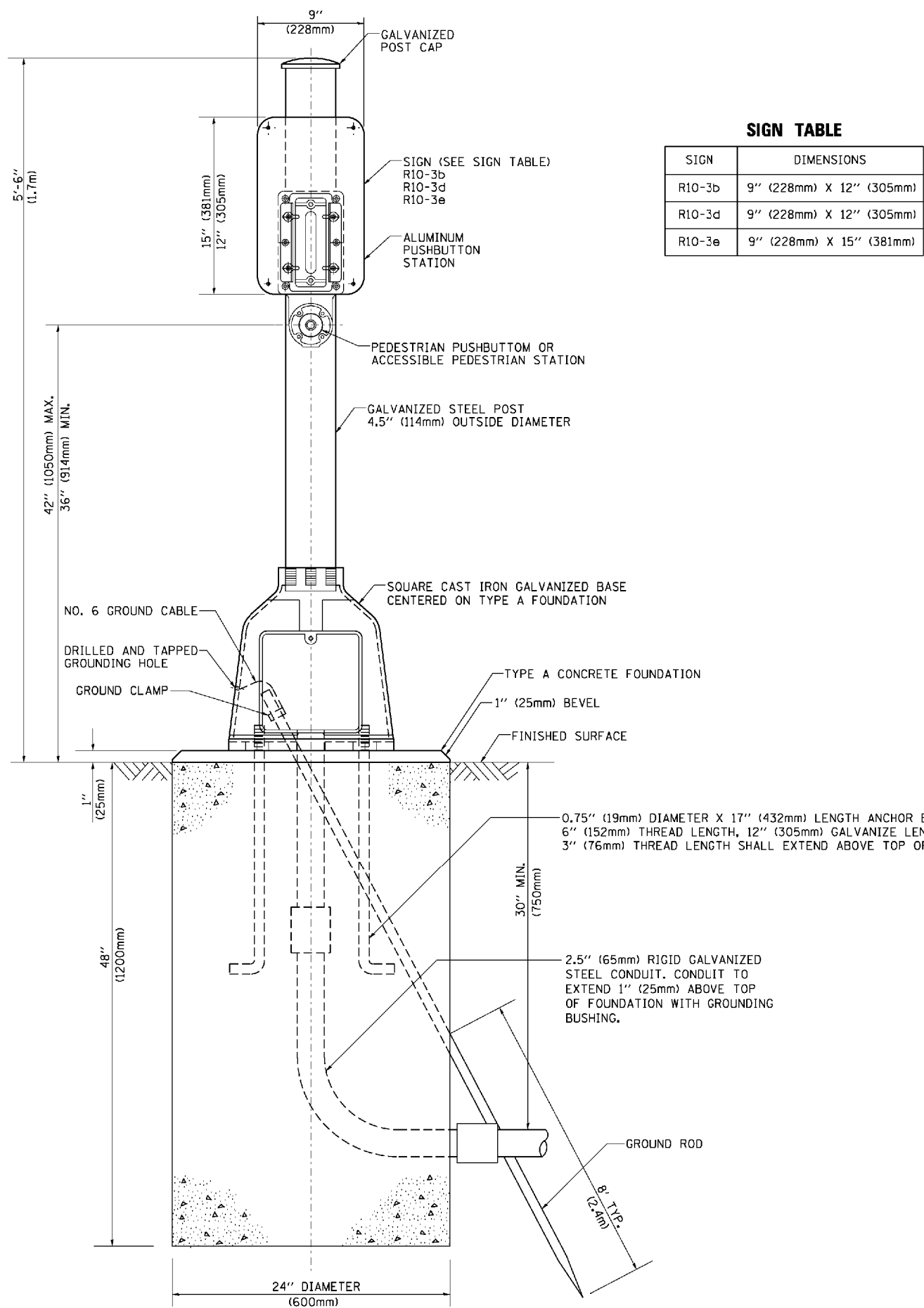
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	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

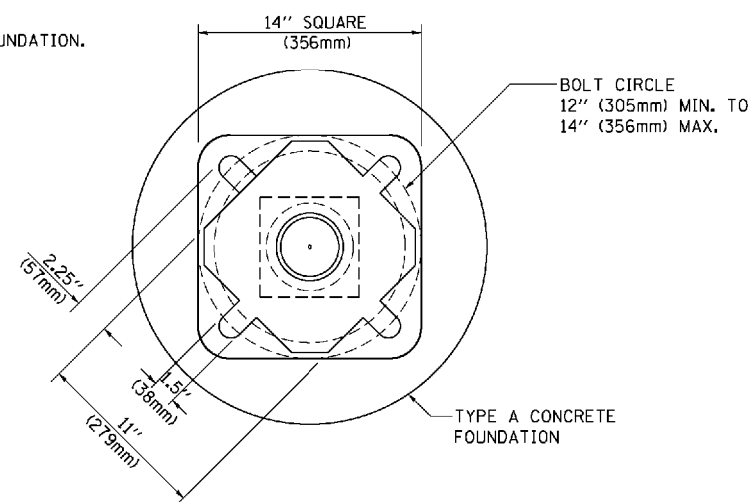
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 0369	SECTION 17-00233-03-SP	COUNTY DUPAGE	TOTAL SHEETS 53	SHEET NO. 24
TS-05		CONTRACT NO. 61F66		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

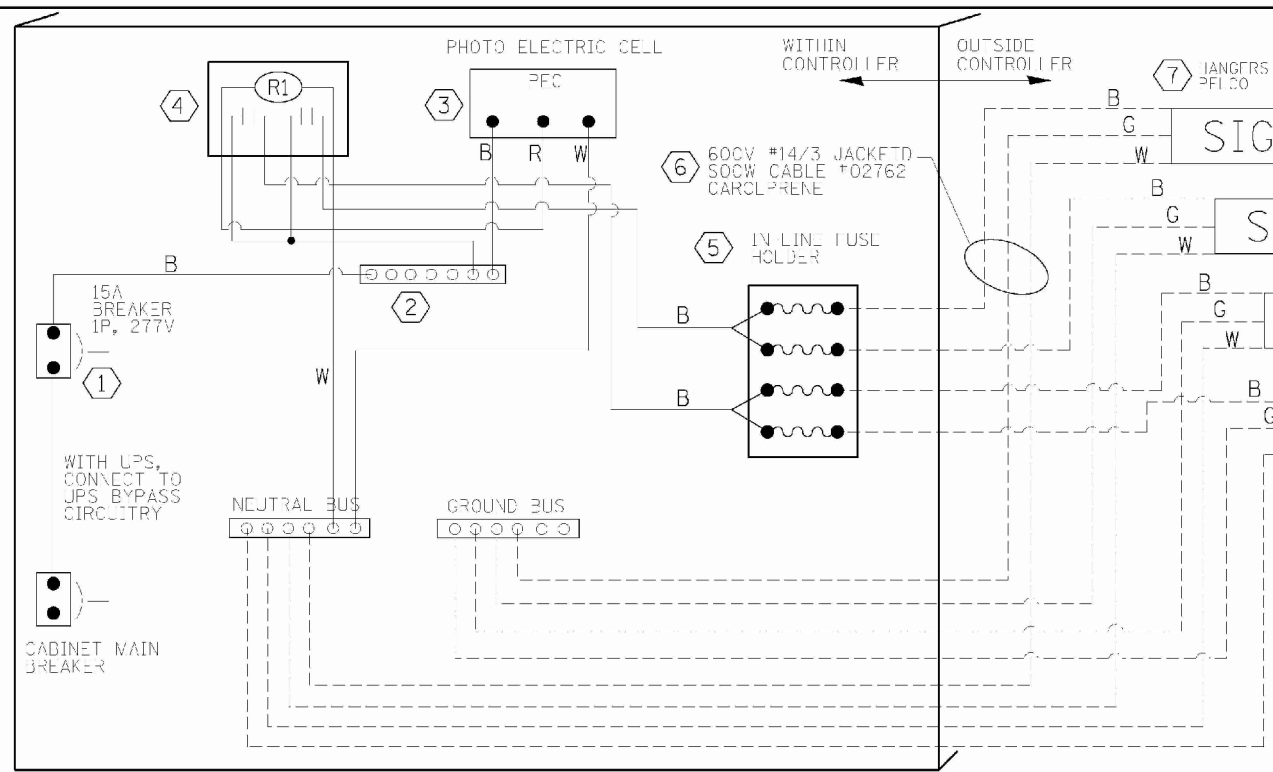
SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

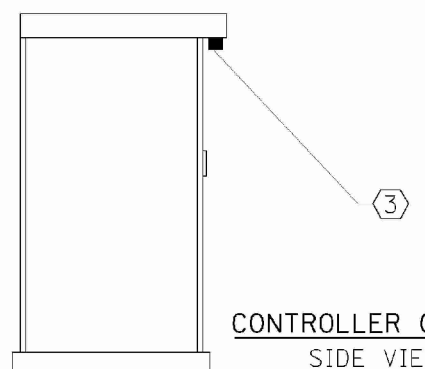
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ca:\pwwork\pwwork\faatemj\00188315\ts05.dgn	DRAWN - GND	REVISED -	REVISED -			0369	17-00233-03-SP	DUPAGE	53	25
PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISED -	REVISED -			TS-05		CONTRACT NO. 61F66		
PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -	REVISED -			SCALE: NONE		SHEET NO. 7 OF 7 SHEETS		STA. TO STA.
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



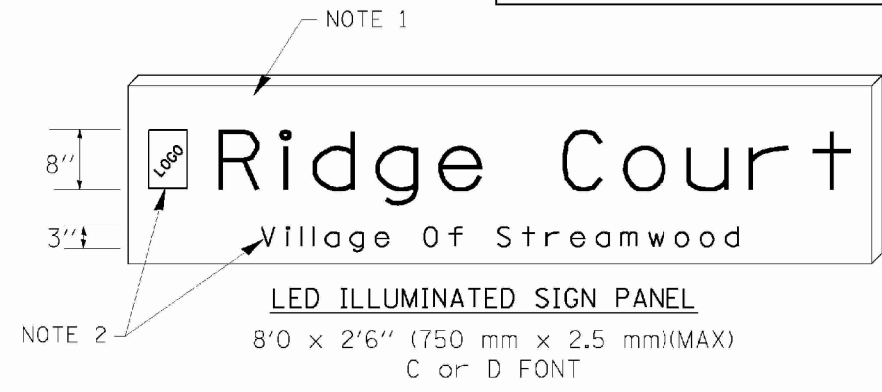
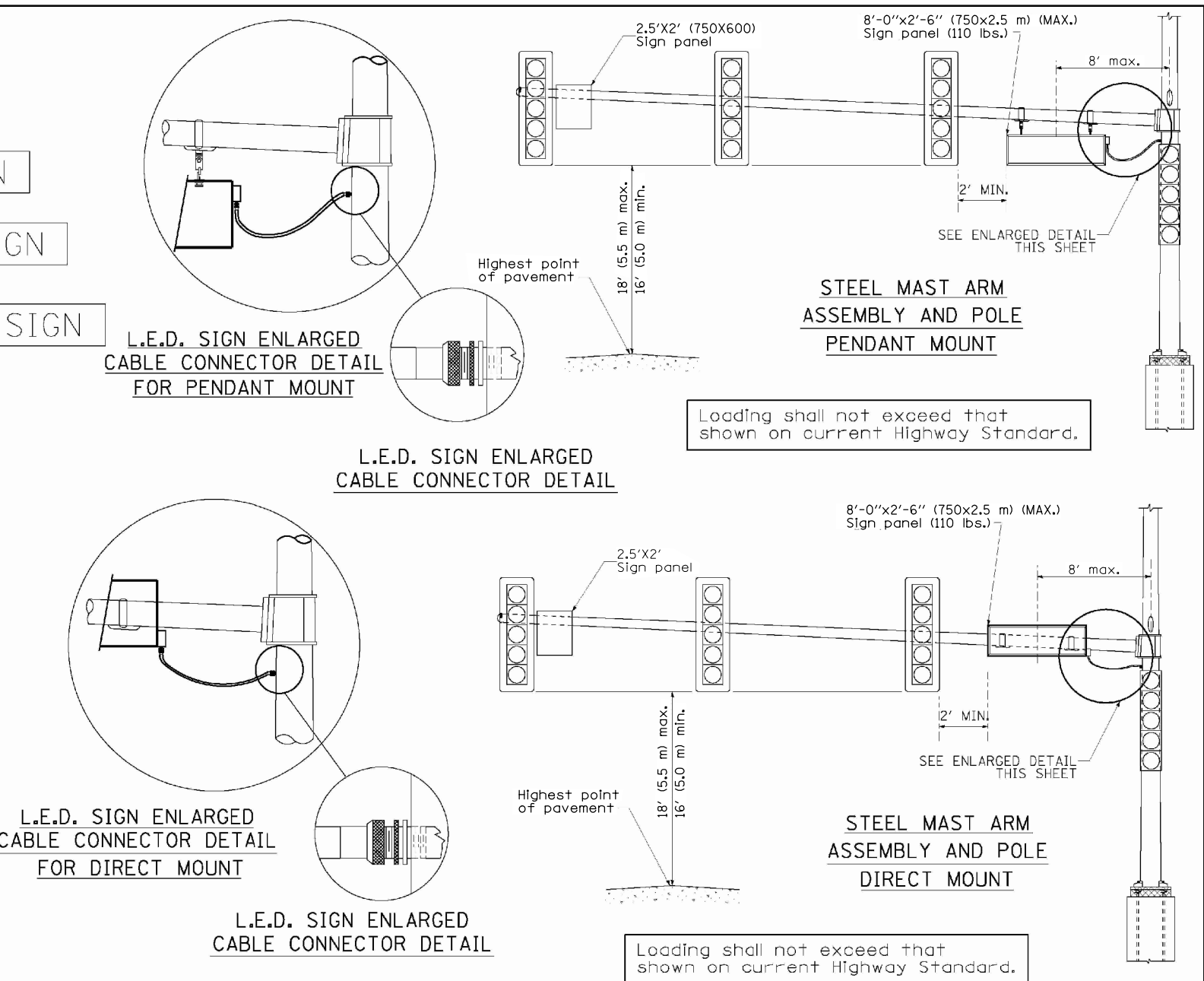
LED SIGN WIRING DETAIL

BILL OF MATERIALS

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
② TERMINAL BLOCK	MARATHON	1502-DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/S00W	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	Pendant (SE-5015) Direct mount (AB-0104-L-SP) Additional sign stiffeners may be required for direct mounted signs.	S.S. HARDWARE



CONTROLLER CABINET SIDE VIEW



LED ILLUMINATED SIGN PANEL
8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

- SIGNS SHALL BE SINGLE SIDED FOR DIRECT MOUNT AND DOUBLE SIDED FOR PENDANT MOUNT.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #14AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL RELOCATE THE EXISTING PTZ CAMERA AND LAYER III SWITCH TO THE LUMINAIRE ARM AND CABINET OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE TEMPORARY CABLING AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE PAY ITEM: RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM AND RELOCATE SWITCH. THE PTZ CAMERA AND LAYER III SWITCH WILL BE EVENTUALLY RELOCATED TO THE PERMANENT SIGNAL INSTALLATION.
- ② THE CONTRACTOR SHALL DISCONNECT THE FIBER OPTIC CABLE FROM THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AND COIL IT INTO THE INTERCONNECT HANDHOLE. THE CONTRACTOR SHALL SPLICE THE EXISTING FIBER OPTIC CABLE TO TEMPORARY FIBER OPTIC CABLE LEADING TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET. THE CABLE SPLICES SHALL BE ABOVE GROUND IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- ③ THE CONTRACTOR SHALL BAG THE RIGHT TURN ARROW SIGNAL SECTIONS AND DISABLE THE RIGHT TURN OVERLAP DURING ALL CONSTRUCTION STAGES THAT CLOSE THE ASSOCIATED RIGHT TURN LANE.

REMOVAL AND RELOCATION NOTES:

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

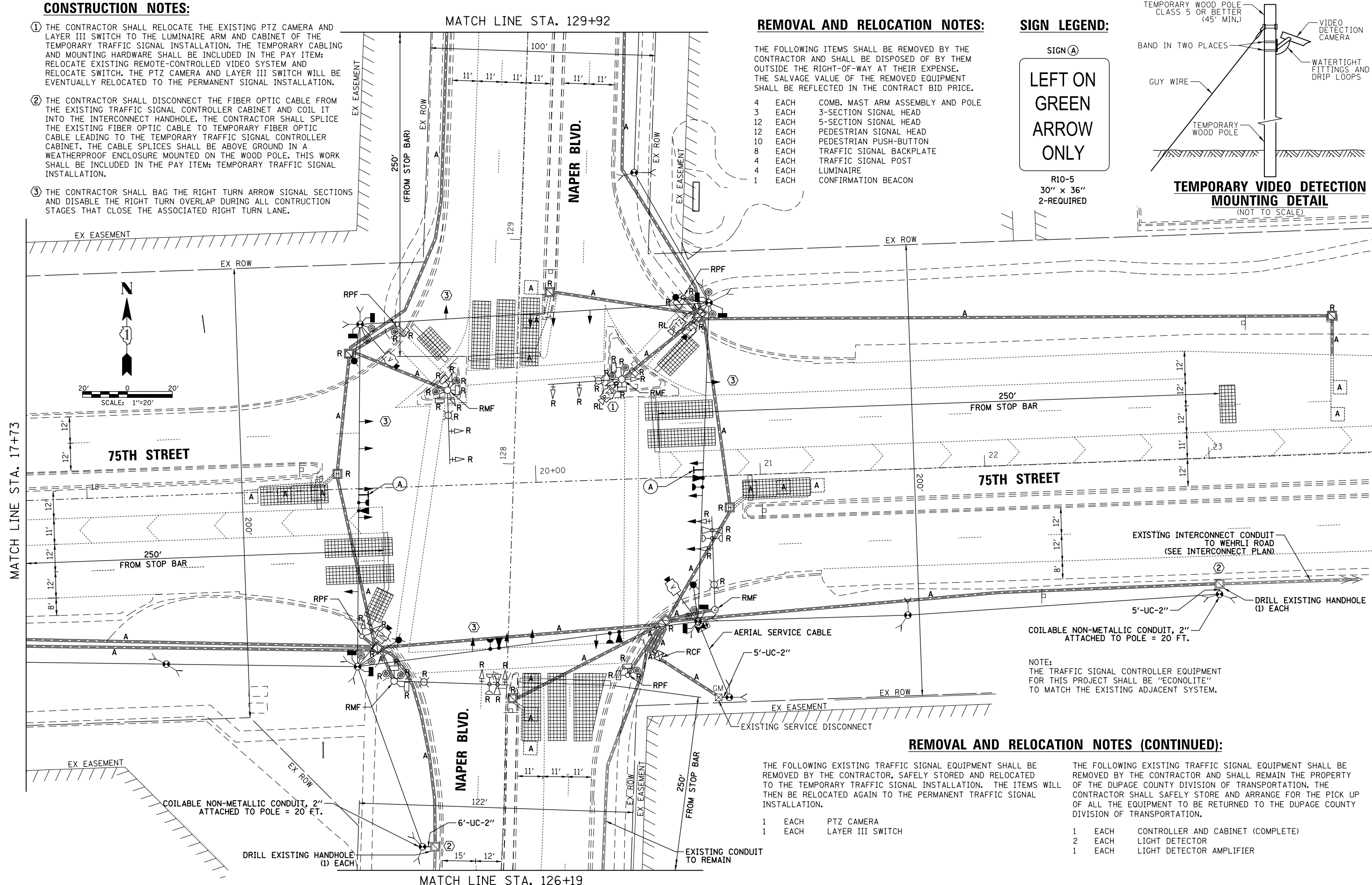
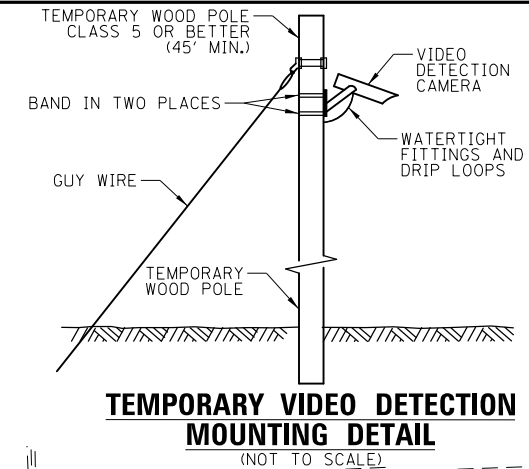
- | | | |
|----|------|----------------------------------|
| 4 | EACH | COMB. MAST ARM ASSEMBLY AND POLE |
| 3 | EACH | 3-SECTION SIGNAL HEAD |
| 12 | EACH | 5-SECTION SIGNAL HEAD |
| 12 | EACH | PEDESTRIAN SIGNAL HEAD |
| 10 | EACH | PEDESTRIAN PUSH-BUTTON |
| 8 | EACH | TRAFFIC SIGNAL BACKPLATE |
| 4 | EACH | TRAFFIC SIGNAL POST |
| 4 | EACH | LUMINAIRE |
| 1 | EACH | CONFIRMATION BEACON |

SIGN LEGEND:

SIGN (A)

LEFT ON
GREEN
ARROW
ONLY

R10-5
30" x 36"
2-REQUIRED



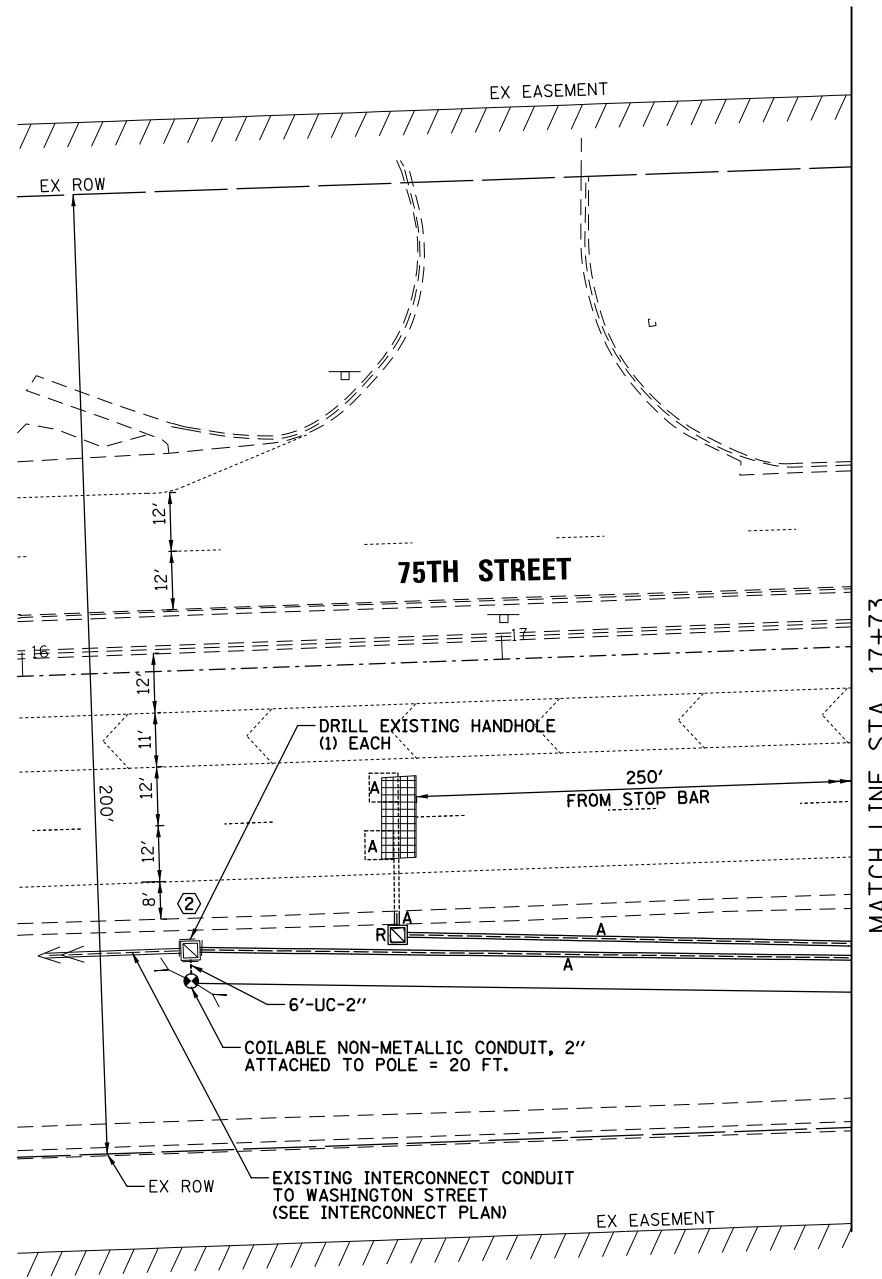
REMOVAL AND RELOCATION NOTES (CONTINUED):

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE ITEMS WILL THEN BE RELOCATED AGAIN TO THE PERMANENT TRAFFIC SIGNAL INSTALLATION.

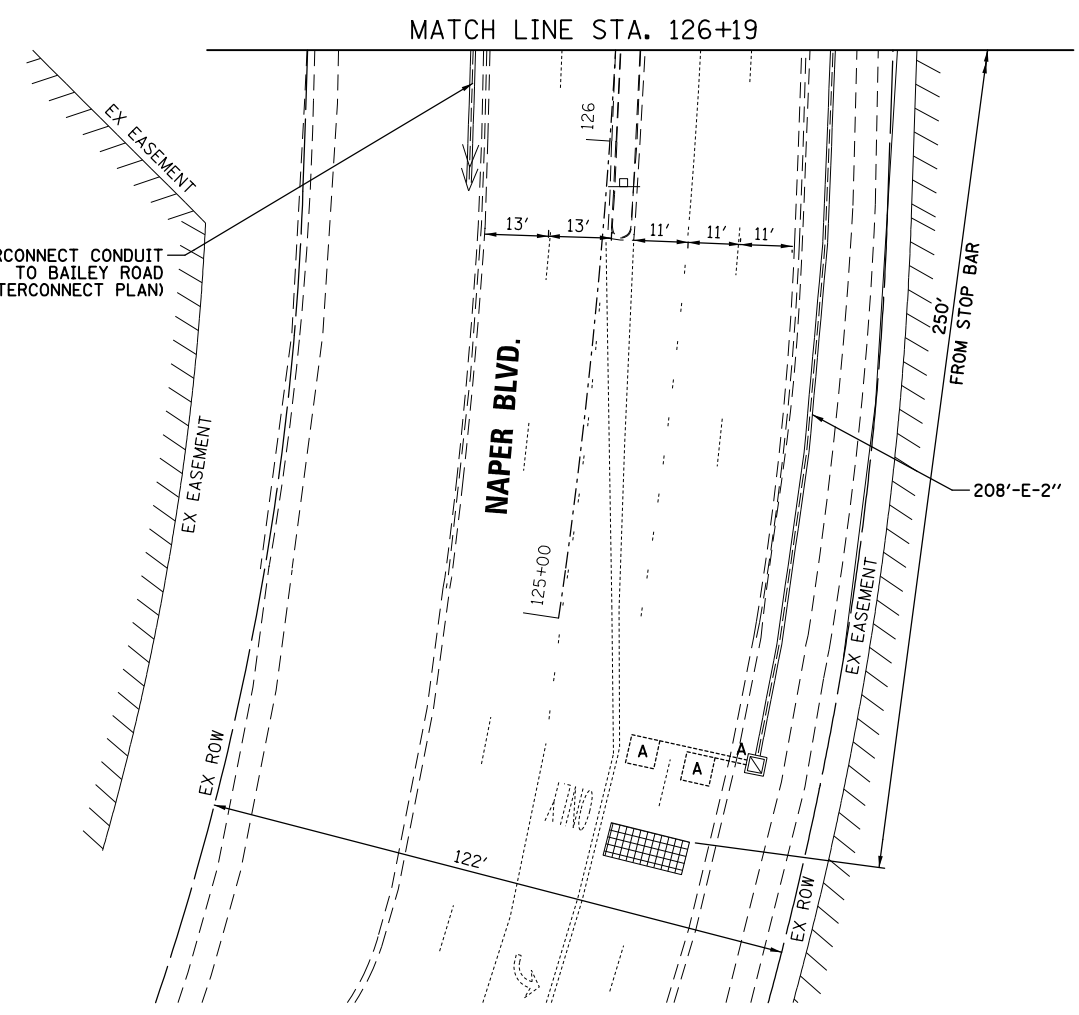
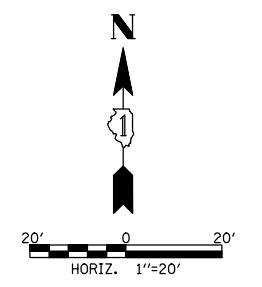
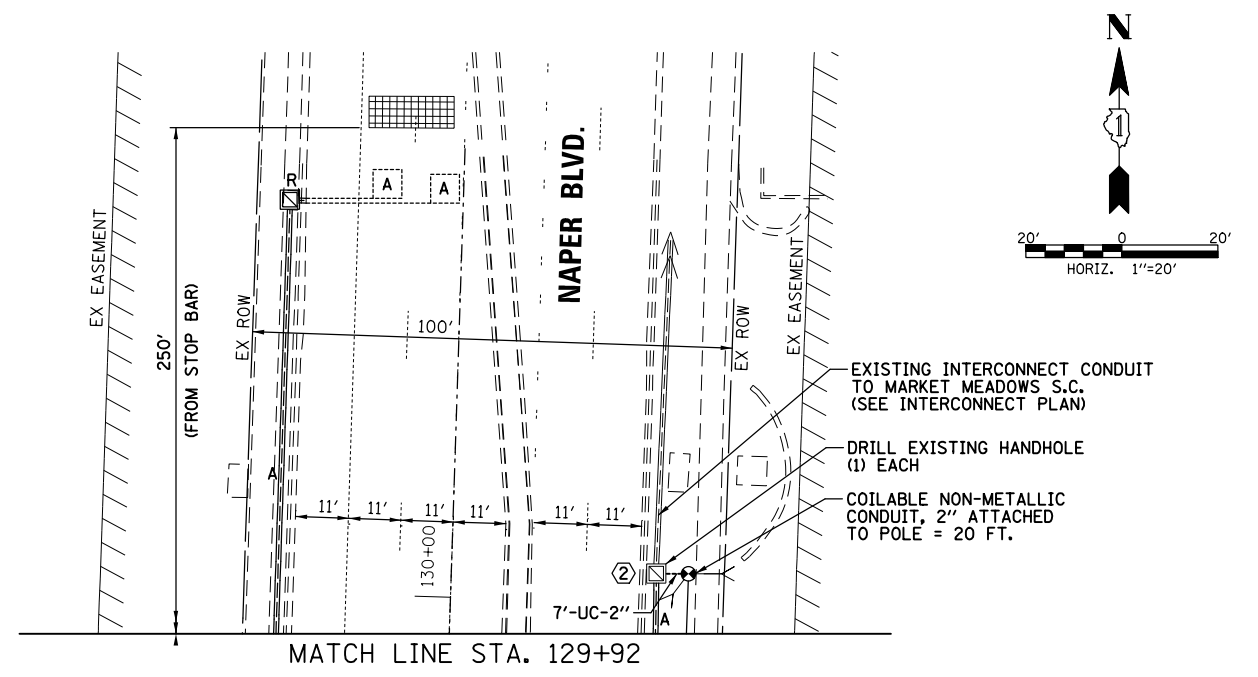
- | | | |
|---|------|------------------|
| 1 | EACH | PTZ CAMERA |
| 1 | EACH | LAYER III SWITCH |

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE DUPAGE COUNTY DIVISION OF TRANSPORTATION. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE DUPAGE COUNTY DIVISION OF TRANSPORTATION.

- | | | |
|---|------|-----------------------------------|
| 1 | EACH | CONTROLLER AND CABINET (COMPLETE) |
| 2 | EACH | LIGHT DETECTOR |
| 1 | EACH | LIGHT DETECTOR AMPLIFIER |



MATCH LINE STA. 17+73

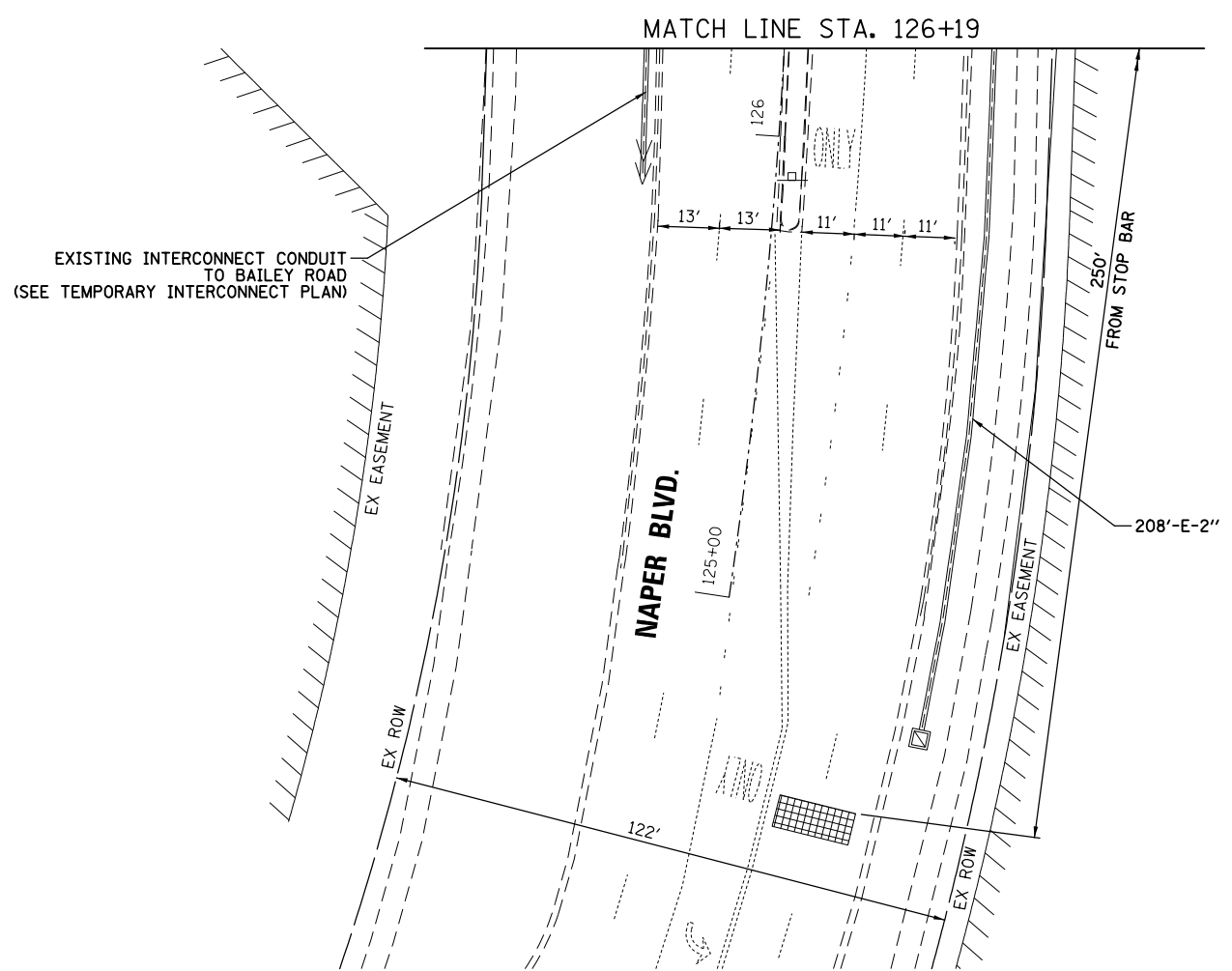
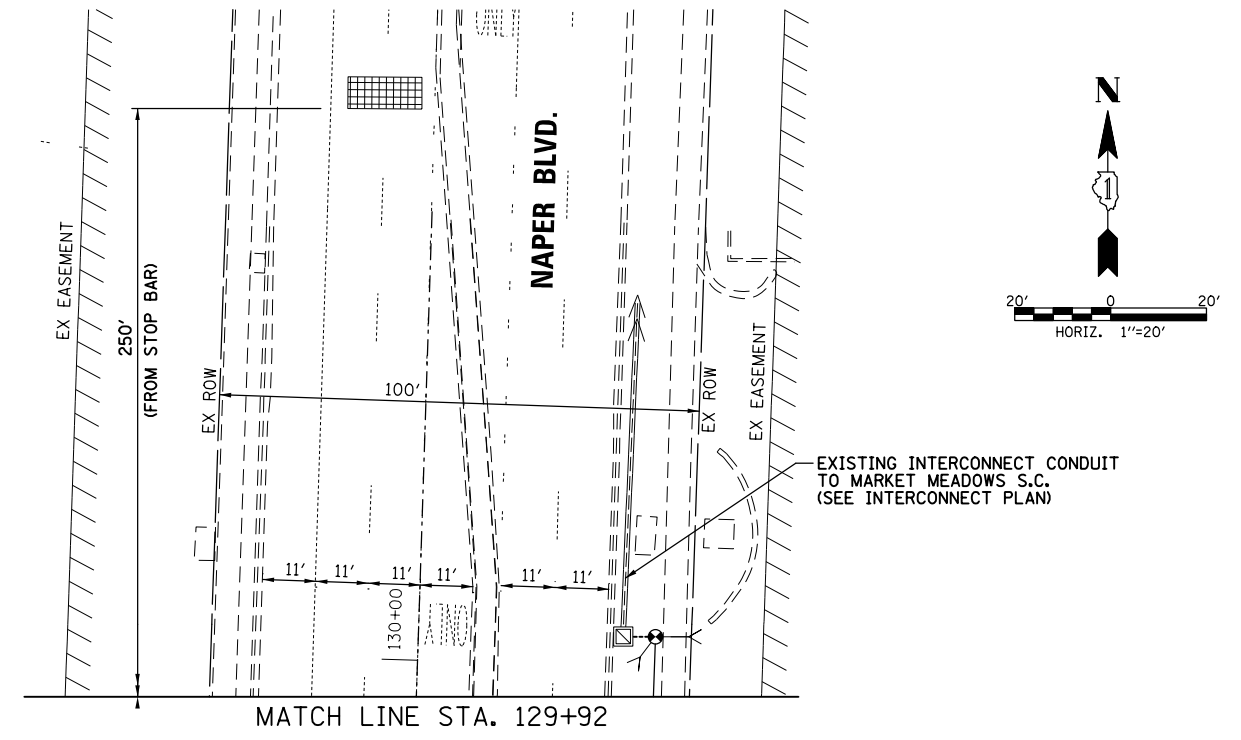
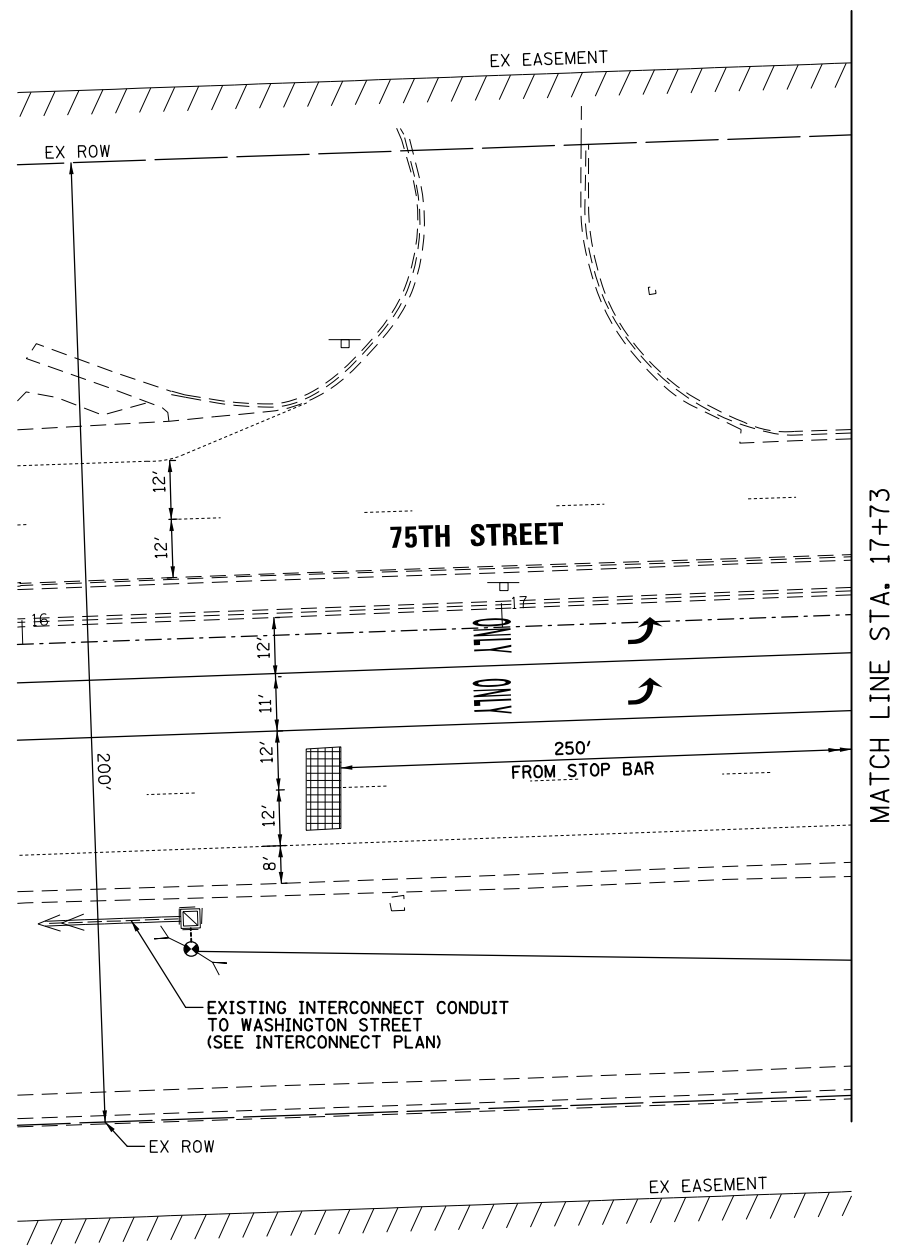


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	PLOT SCALE = 48'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN EXISTING CONDITION - SHEET 2 OF 2 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 40'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	28
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61F66		



FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
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	PLOT DATE = 1/28/2019	DATE -	REVISED -

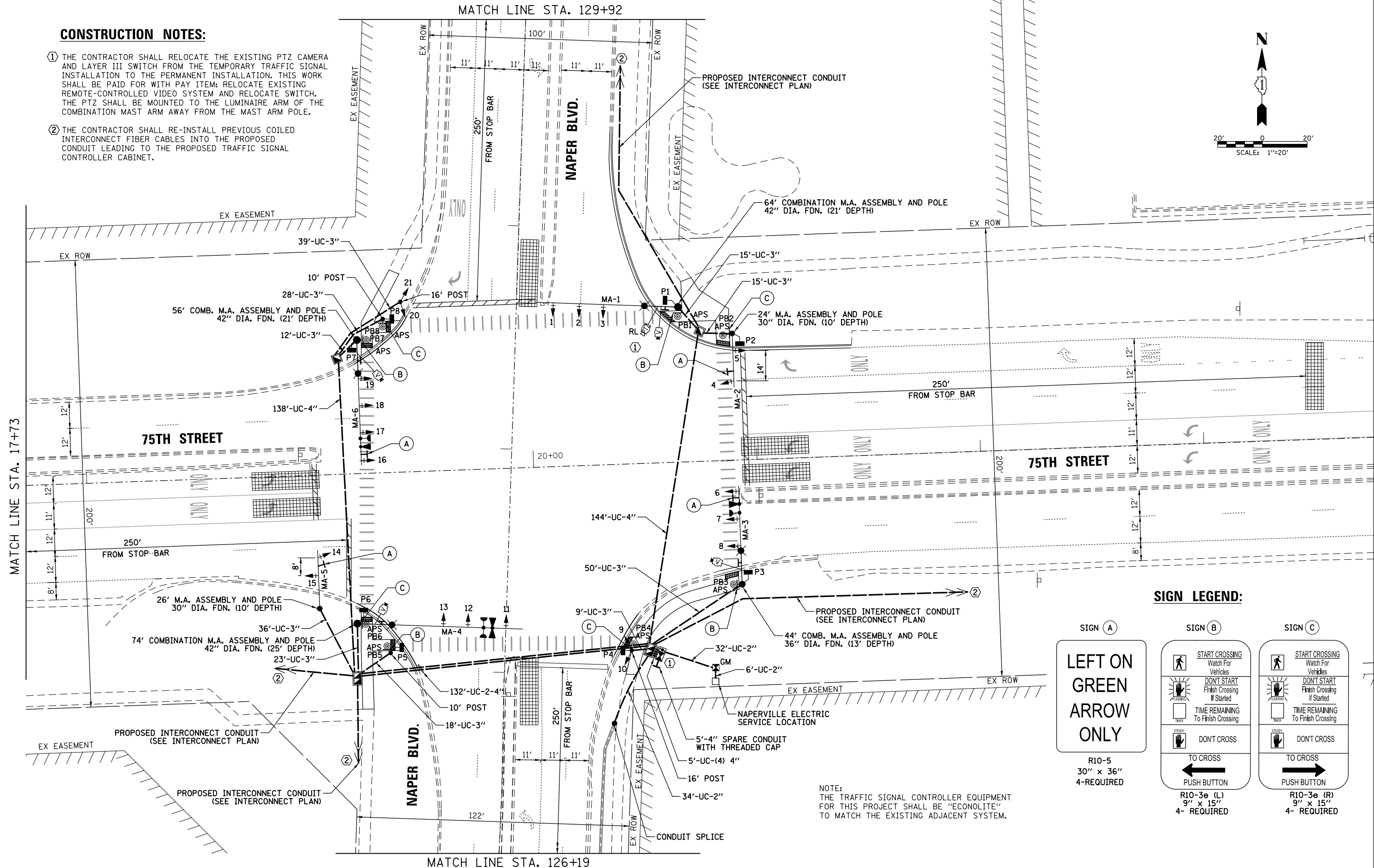
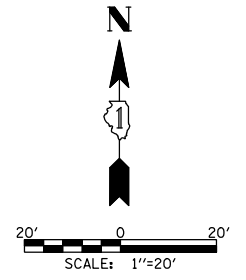
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY TRAFFIC SIGNAL INSTALLATION FINAL GEOMETRY - SHEET 2 OF 2 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 40'	SHEET NO. OF SHEETS	STA. TO STA.	

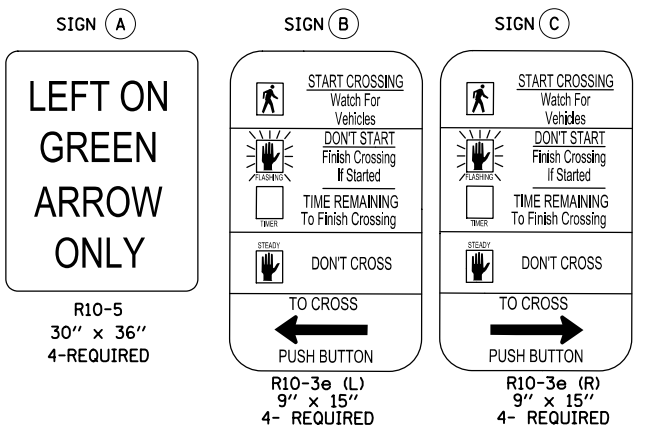
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	30
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F66	

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL RELOCATE THE EXISTING PTZ CAMERA AND LAYER III SWITCH FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION TO THE PERMANENT INSTALLATION. THIS WORK SHALL BE PAID FOR WITH PAY ITEM: RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM AND RELOCATE SWITCH. THE PTZ SHALL BE MOUNTED TO THE LUMINAIRE ARM OF THE COMBINATION MAST ARM AWAY FROM THE MAST ARM POLE.
- ② THE CONTRACTOR SHALL RE-INSTALL PREVIOUS COILED INTERCONNECT FIBER CABLES INTO THE PROPOSED CONDUIT LEADING TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET.



SIGN LEGEND:

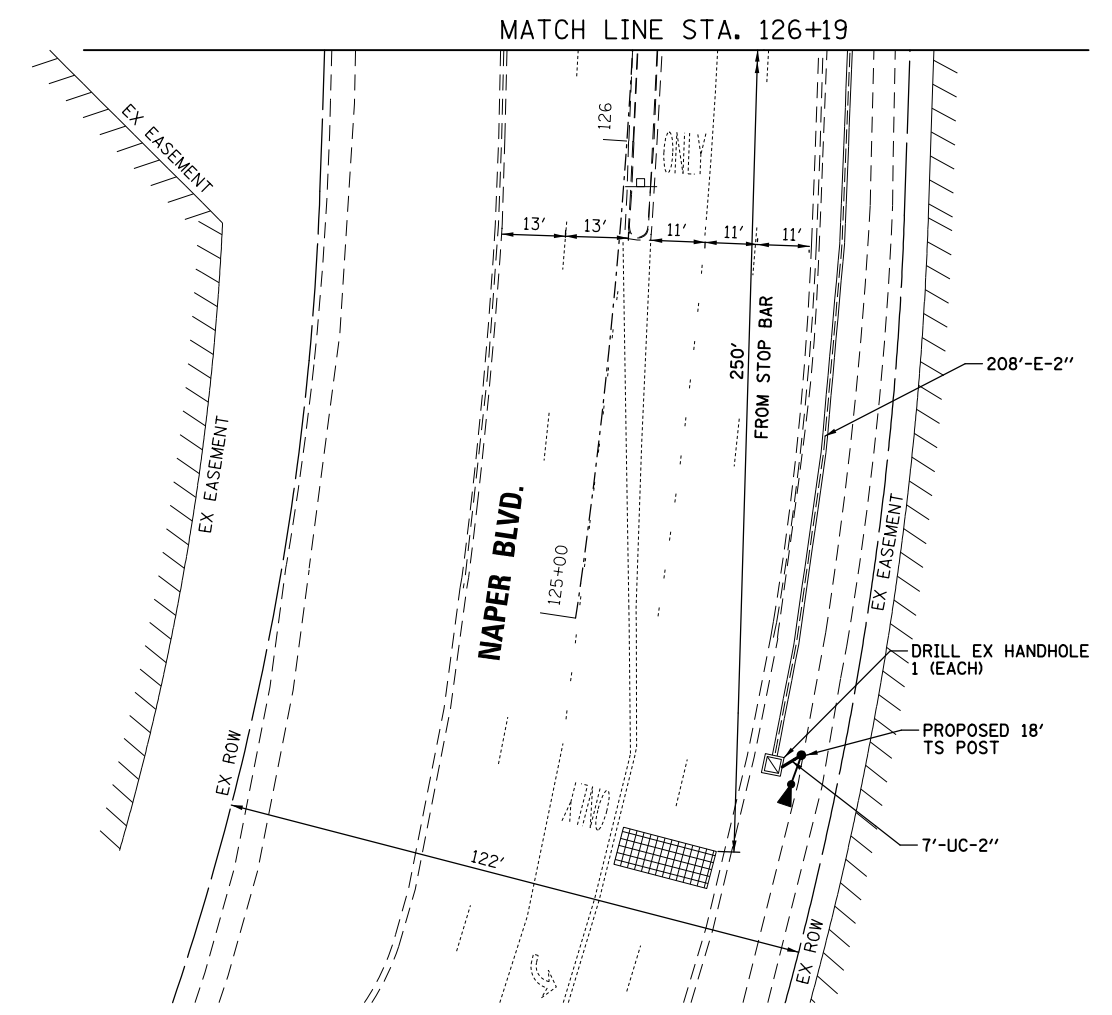
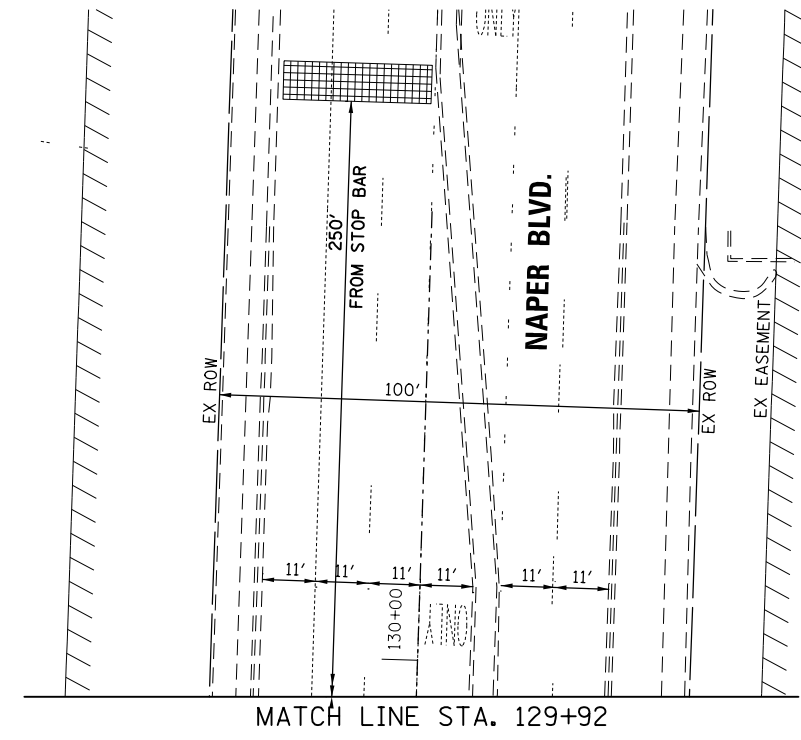
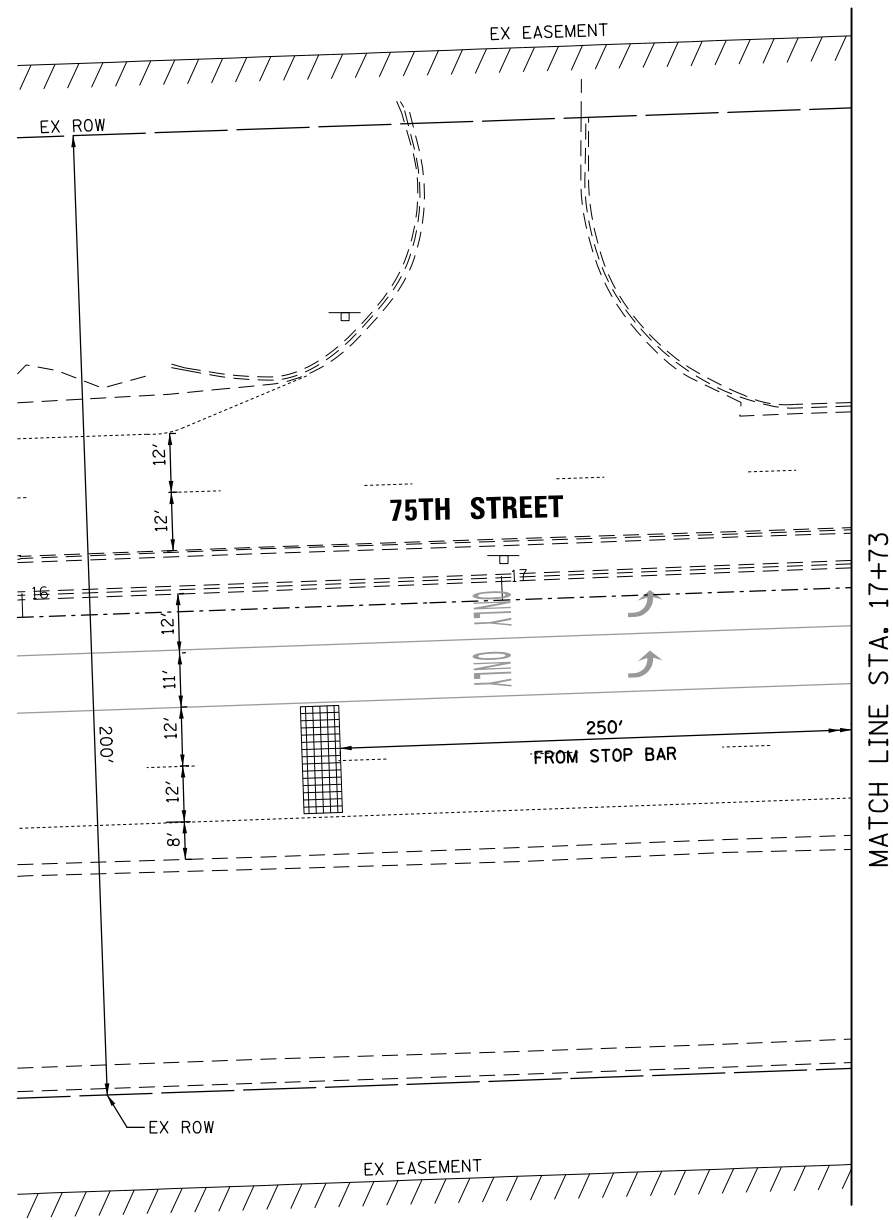


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		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN			
(SHEET 1 OF 2)			
75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 40'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F66	



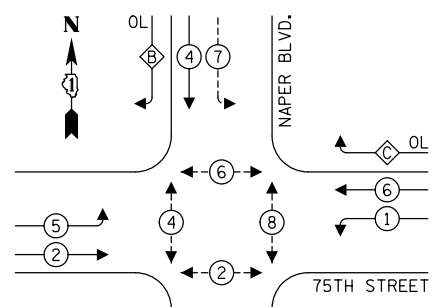
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PLOT DATE = 1/28/2019		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 2) 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 40'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F66	

PROPOSED CONTROLLER SEQUENCE



LEGEND:

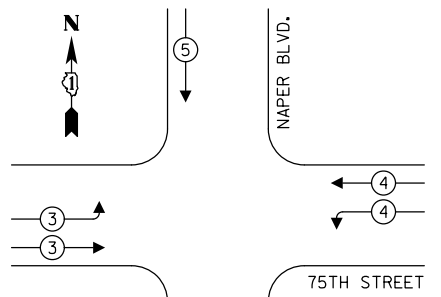
- ← ⊙ ← PROTECTED PHASE
- ← ⊙ - - PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ⊙ OL OVERLAP

RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 4	+ 5
C	= 6	+ 7

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	21	11	50	115.5
(YELLOW)	21	20	5	21.0
(GREEN)	21	12	45	113.4
ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	60.0
LUMINAIRE	4	165	50	330.0
TOTAL =				1090.9

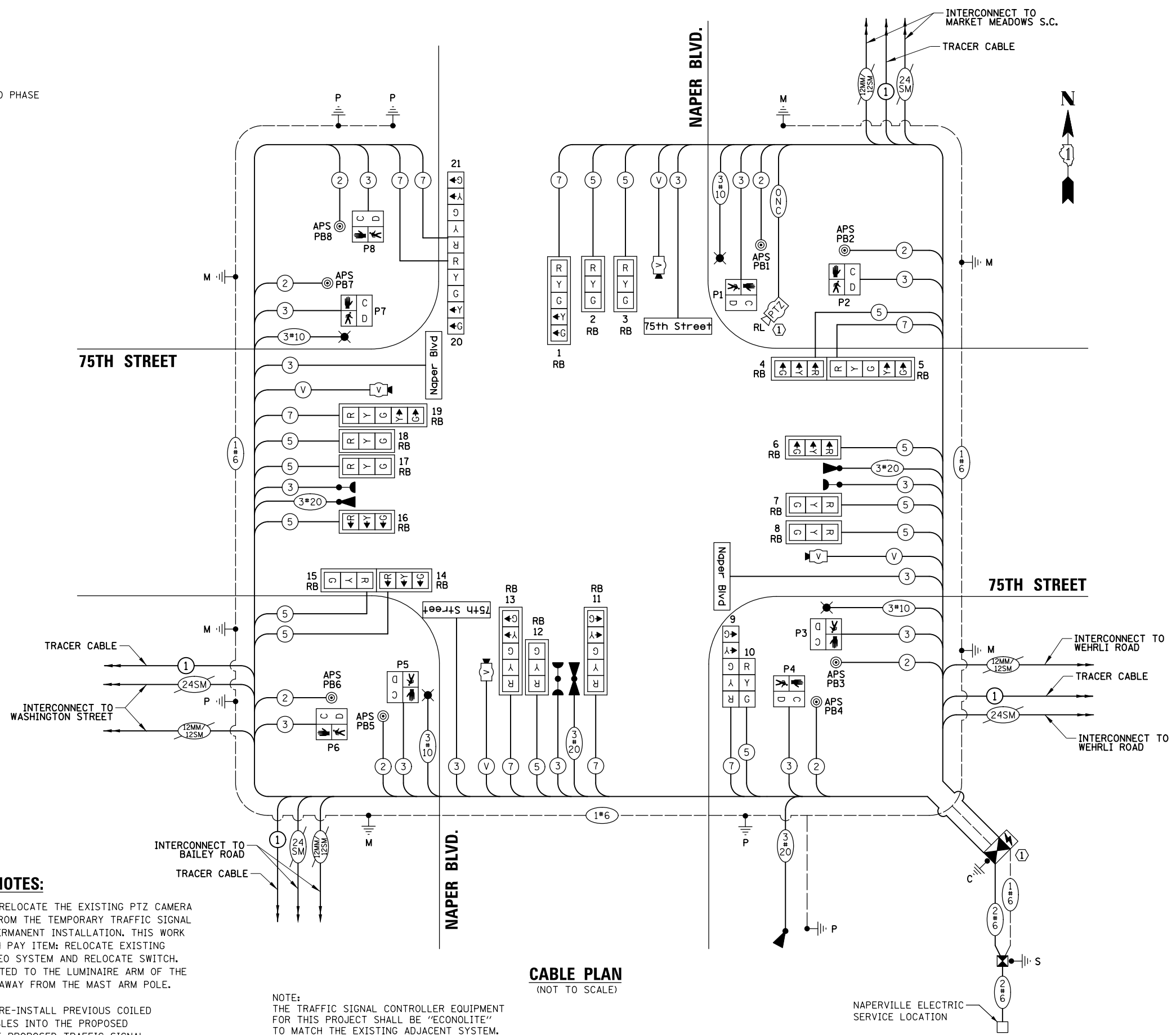
ENERGY COSTS TO:

CITY OF NAPERVILLE
400 S. EAGLE STREET
NAPERVILLE, IL 60540

ENERGY SUPPLY: CONTACT: RON RITTER
PHONE: 630-420-4183
COMPANY: NAPERVILLE ELECTRIC
ACCOUNT NUMBER: ---

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL RELOCATE THE EXISTING PTZ CAMERA AND LAYER III SWITCH FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION TO THE PERMANENT INSTALLATION. THIS WORK SHALL BE PAID FOR WITH PAY ITEM: RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM AND RELOCATE SWITCH. THE PTZ SHALL BE MOUNTED TO THE LUMINAIRE ARM OF THE COMBINATION MAST ARM AWAY FROM THE MAST ARM POLE.
- ② THE CONTRACTOR SHALL RE-INSTALL PREVIOUS COILED INTERCONNECT FIBER CABLES INTO THE PROPOSED CONDUIT LEADING TO THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET.



CABLE PLAN
(NOT TO SCALE)

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
75TH STREET AND NAPER BOULEVARD

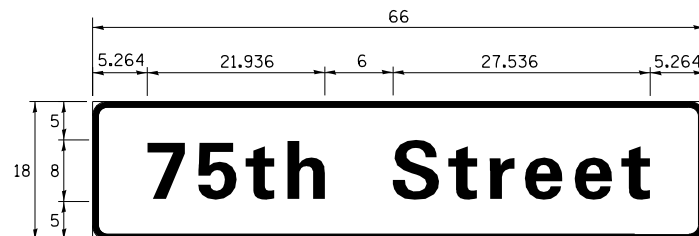
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		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

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

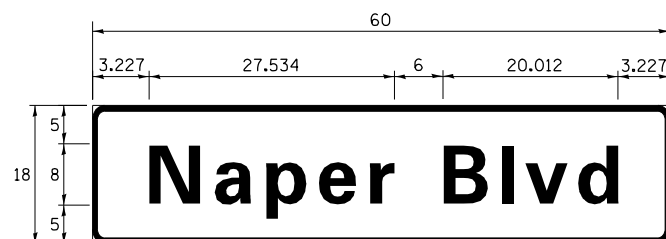
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F66	

LED ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE

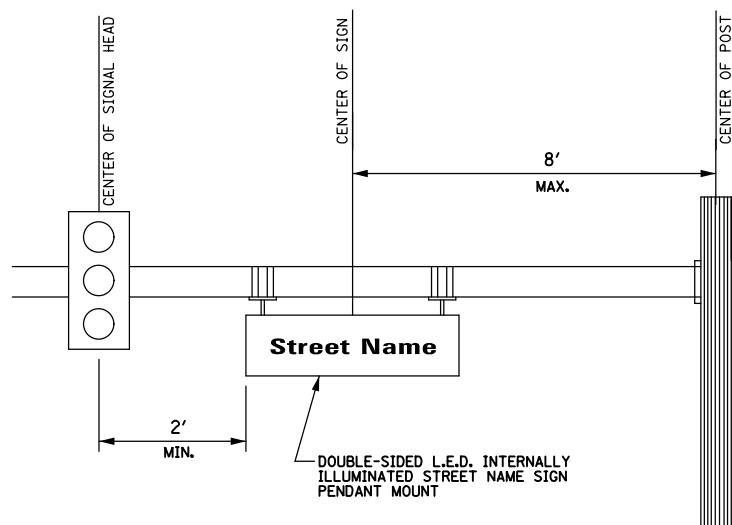


DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	8.25	ZZ	2



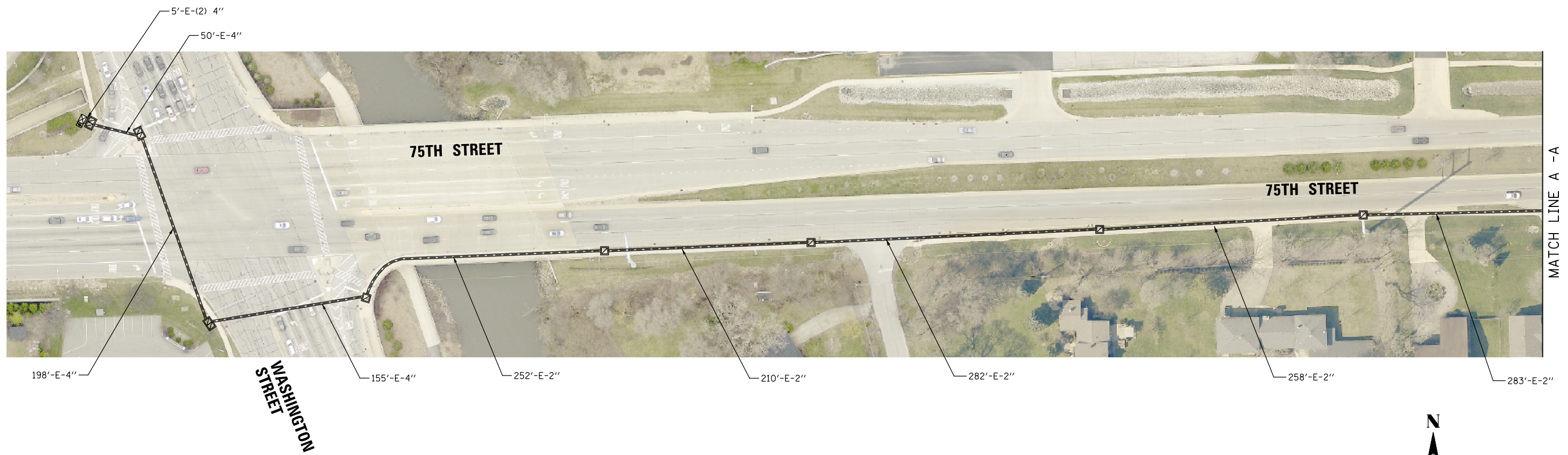
DESIGN SERIES	AREA (SQ FT)	SHEETING TYPE	QTY. REQUIRED
D	7.5	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE ILLUMINATED STREET NAME SIGN DETAIL.

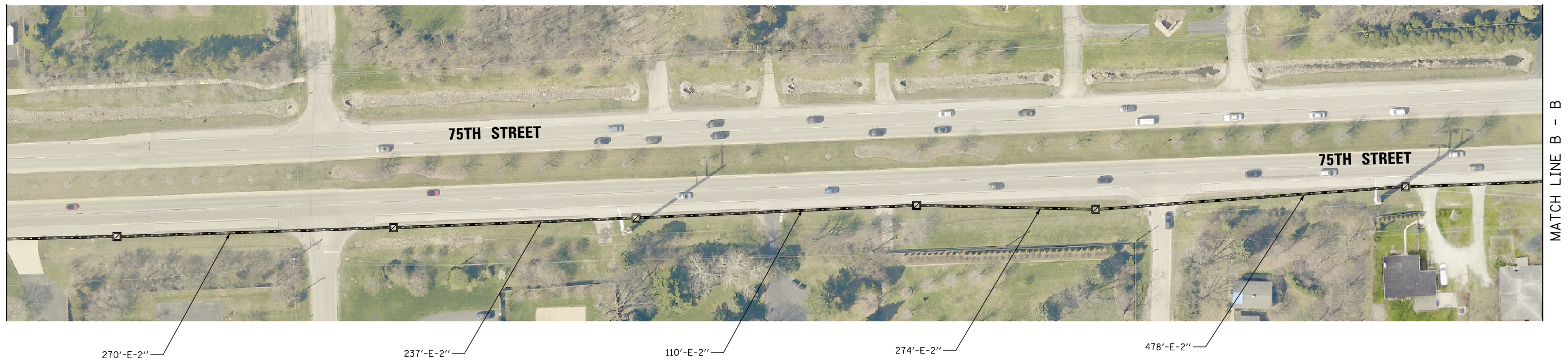
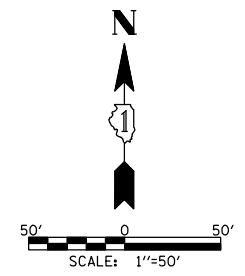


SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	30
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	79
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	233
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	571
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	3,111
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,617
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,470
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,128
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,219
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	56
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,302
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 74 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	67
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	17
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	14,005
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	14
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,140
ROD AND CLEAN EXISTING CONDUIT	FOOT	208
RELOCATE SWITCH	EACH	2
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	2
RELOCATE EXISTING SIGNS	EACH	1
CONDUIT SPLICE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	4
EXPLORATORY EXCAVATION	FOOT	20
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	485
CABLE, SPECIAL	FOOT	915
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1



MATCH LINE A - A



MATCH LINE A - A

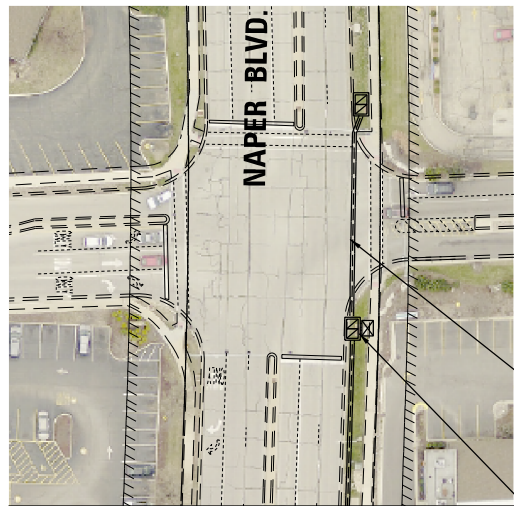
MATCH LINE B - B

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	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

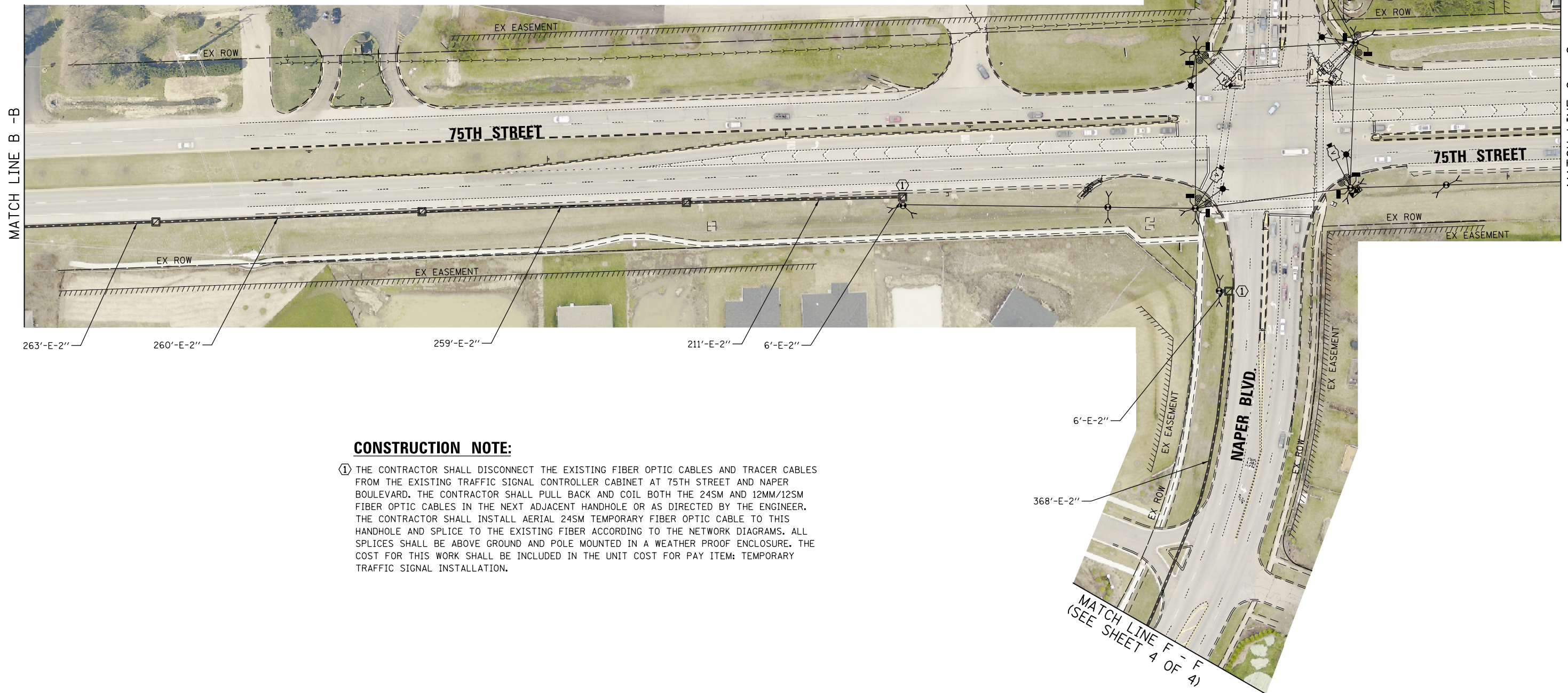
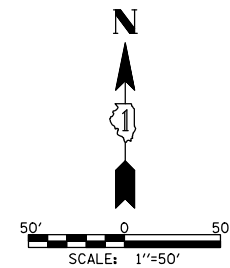
TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 4) 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 100'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	36
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F66



MARKET MEADOWS S.C.

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



CONSTRUCTION NOTE:

① THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIBER OPTIC CABLES AND TRACER CABLES FROM THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AT 75TH STREET AND NAPER BOULEVARD. THE CONTRACTOR SHALL PULL BACK AND COIL BOTH THE 24SM AND 12MM/12SM FIBER OPTIC CABLES IN THE NEXT ADJACENT HANDHOLE OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL AERIAL 24SM TEMPORARY FIBER OPTIC CABLE TO THIS HANDHOLE AND SPLICE TO THE EXISTING FIBER ACCORDING TO THE NETWORK DIAGRAMS. ALL SPLICES SHALL BE ABOVE GROUND AND POLE MOUNTED IN A WEATHER PROOF ENCLOSURE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT COST FOR PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

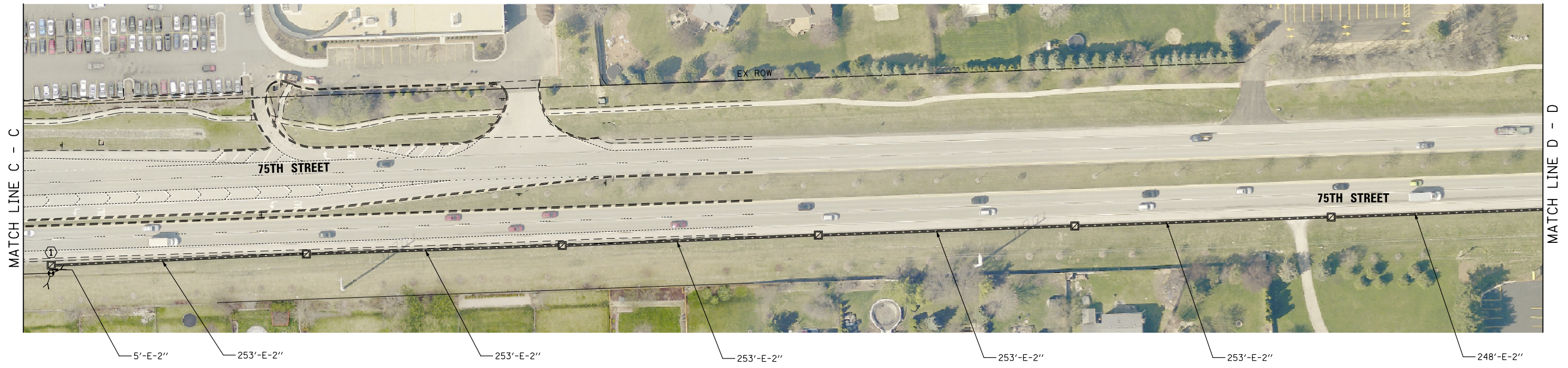
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		CHECKED - GMZ	REVISED -
		DATE -	REVISED -
	PLOT SCALE = 100'		
	PLOT DATE = 1/28/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN
(SHEET 2 OF 4)
75TH STREET AND NAPER BOULEVARD

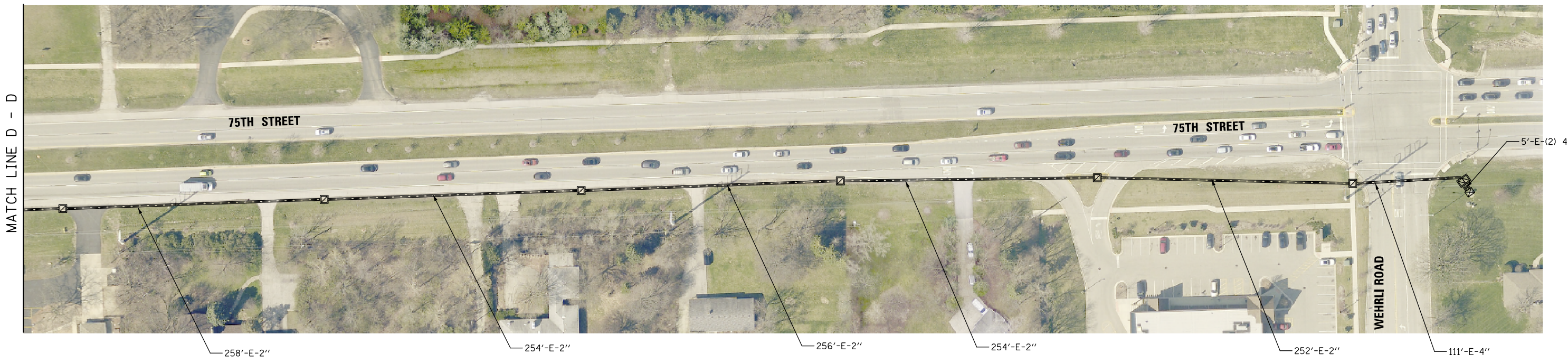
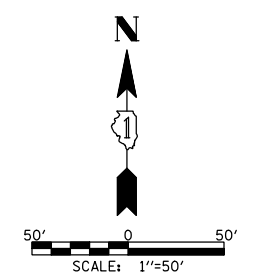
SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	37
CONTRACT NO. 61F66				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIBER OPTIC CABLES AND TRACER CABLES FROM THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AT 75TH STREET AND NAPER BOULEVARD. THE CONTRACTOR SHALL PULL BACK AND COIL BOTH THE 24SM AND 12MM/12SM FIBER OPTIC CABLES IN THE NEXT ADJACENT HANDHOLE OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL AERIAL 24SM TEMPORARY FIBER OPTIC CABLE TO THIS HANDHOLE AND SPLICE TO THE EXISTING FIBER ACCORDING TO THE NETWORK DIAGRAMS. ALL SPLICES SHALL BE ABOVE GROUND AND POLE MOUNTED IN A WEATHER PROOF ENCLOSURE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT COST FOR PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

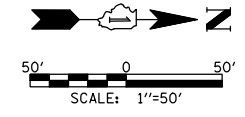


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		CHECKED - GMZ	REVISED -
		DATE -	REVISED -

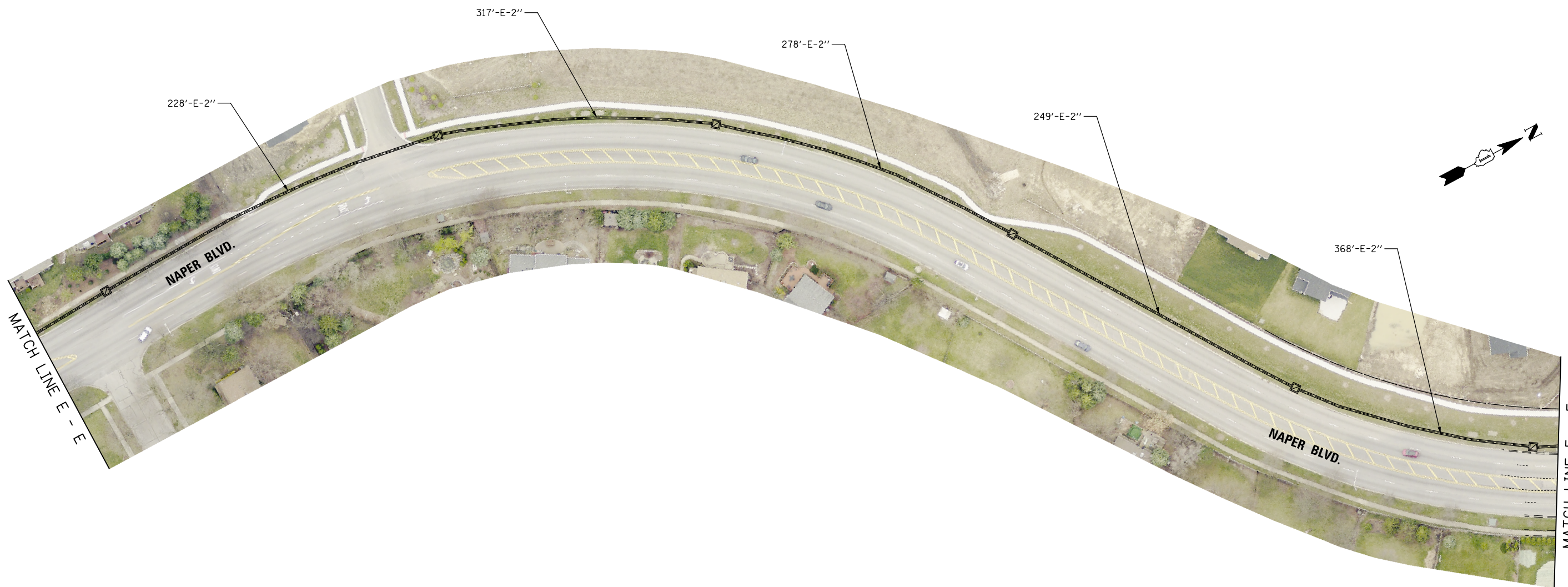
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT PLAN (SHEET 3 OF 4) 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 100'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	38
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F66	



MATCH LINE E - E



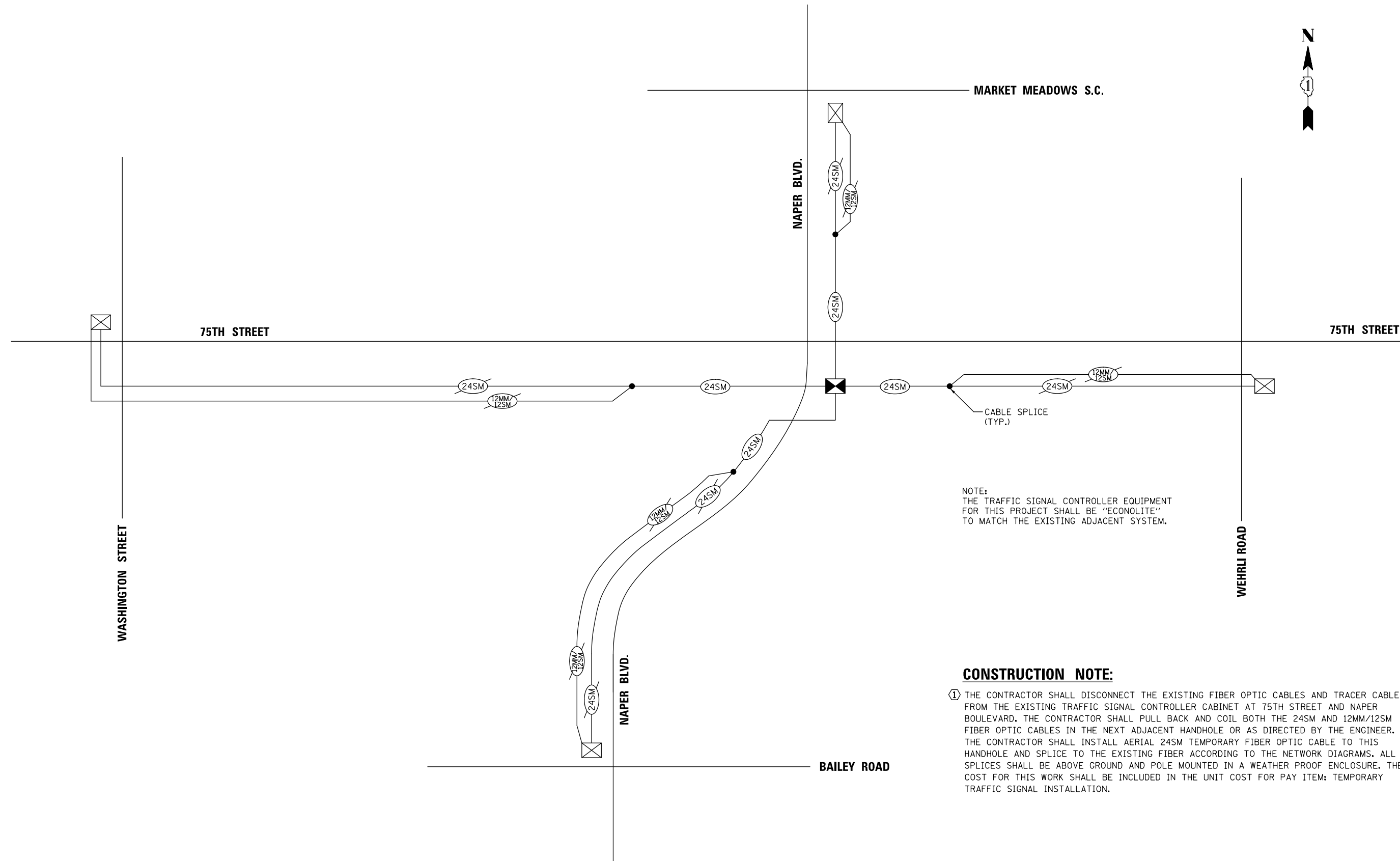
MATCH LINE F - F
(SEE SHEET 2 OF 4)

FILE NAME =	USER NAME = ejensen	DESIGNED - EAJ	REVISED -
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	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INTERCONNECT PLAN (SHEET 4 OF 4) 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 100'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	39
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F66	



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

CONSTRUCTION NOTE:

- ① THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIBER OPTIC CABLES AND TRACER CABLES FROM THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AT 75TH STREET AND NAPER BOULEVARD. THE CONTRACTOR SHALL PULL BACK AND COIL BOTH THE 24SM AND 12MM/12SM FIBER OPTIC CABLES IN THE NEXT ADJACENT HANDHOLE OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL AERIAL 24SM TEMPORARY FIBER OPTIC CABLE TO THIS HANDHOLE AND SPLICE TO THE EXISTING FIBER ACCORDING TO THE NETWORK DIAGRAMS. ALL SPLICES SHALL BE ABOVE GROUND AND POLE MOUNTED IN A WEATHER PROOF ENCLOSURE. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT COST FOR PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

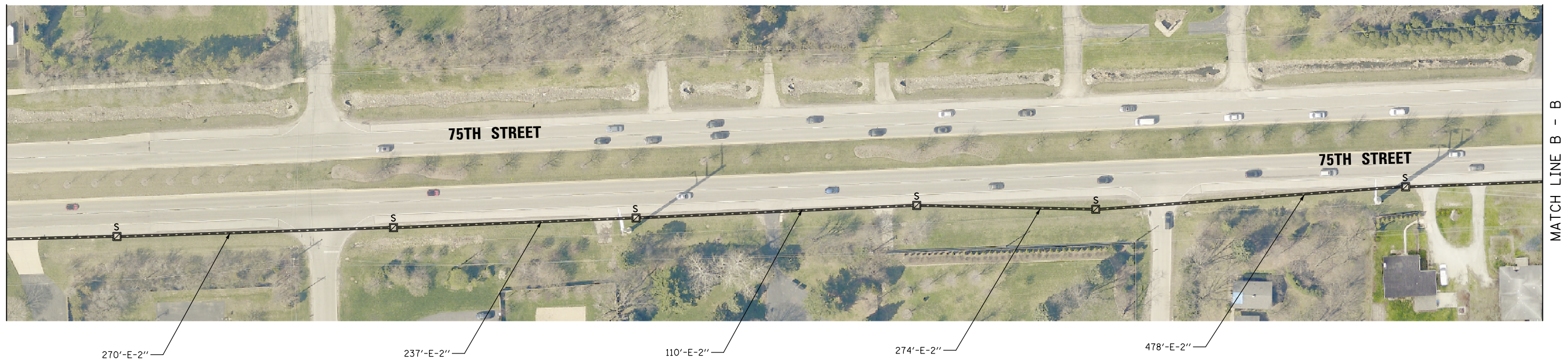
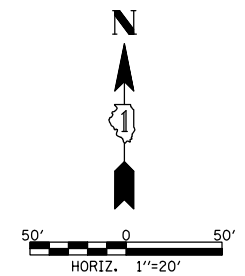
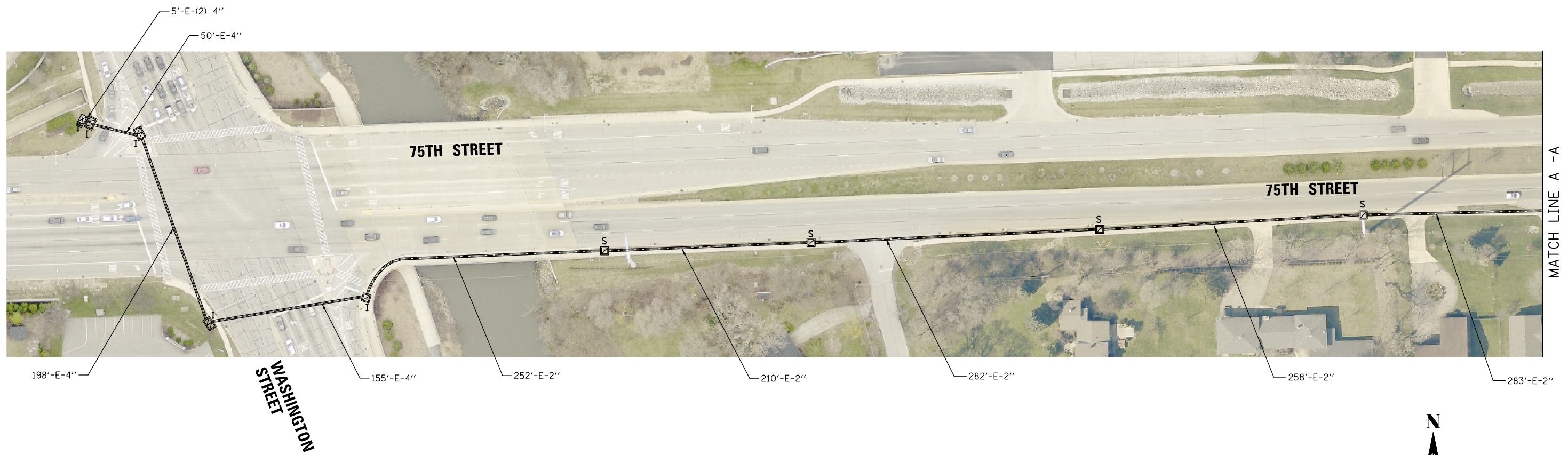
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	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2019	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
 75TH STREET AND NAPER BOULEVARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	40
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F66	

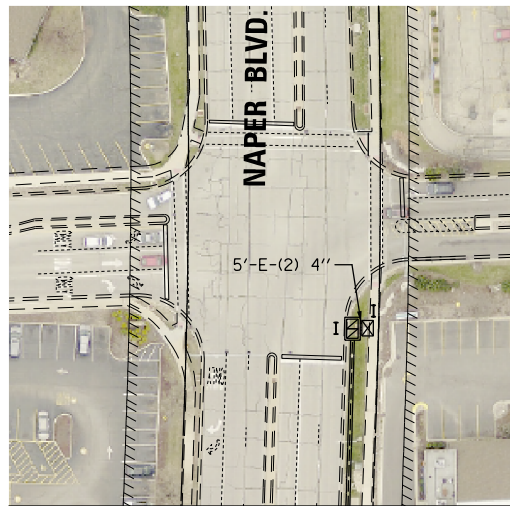


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	PLLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN (SHEET 1 OF 4) 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 100'	SHEET NO.	OF SHEETS	STA. TO STA.

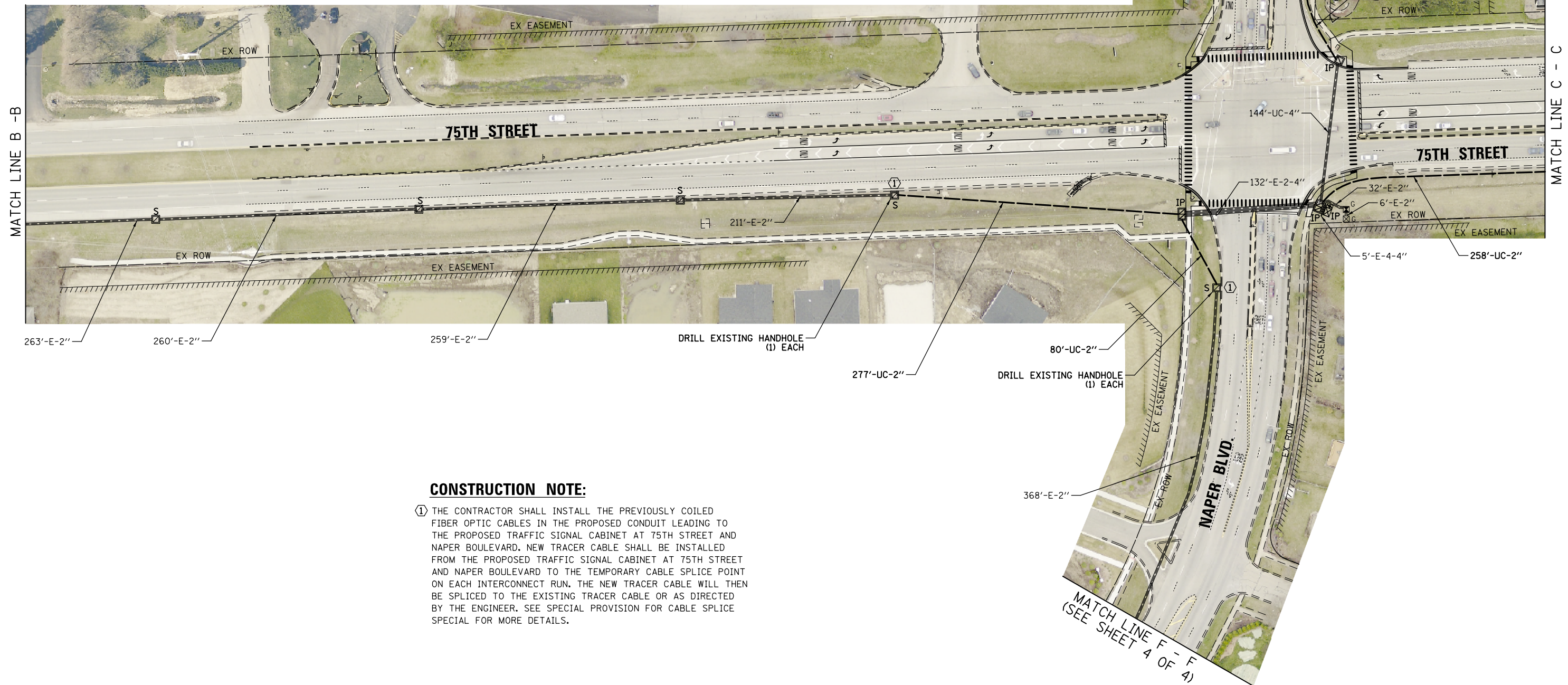
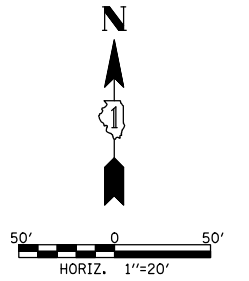
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	41
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F66	



MARKET MEADOWS S.C.

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

MATCH LINE G-G



CONSTRUCTION NOTE:

① THE CONTRACTOR SHALL INSTALL THE PREVIOUSLY COILED FIBER OPTIC CABLES IN THE PROPOSED CONDUIT LEADING TO THE PROPOSED TRAFFIC SIGNAL CABINET AT 75TH STREET AND NAPER BOULEVARD. NEW TRACER CABLE SHALL BE INSTALLED FROM THE PROPOSED TRAFFIC SIGNAL CABINET AT 75TH STREET AND NAPER BOULEVARD TO THE TEMPORARY CABLE SPLICE POINT ON EACH INTERCONNECT RUN. THE NEW TRACER CABLE WILL THEN BE SPLICED TO THE EXISTING TRACER CABLE OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISION FOR CABLE SPLICE SPECIAL FOR MORE DETAILS.

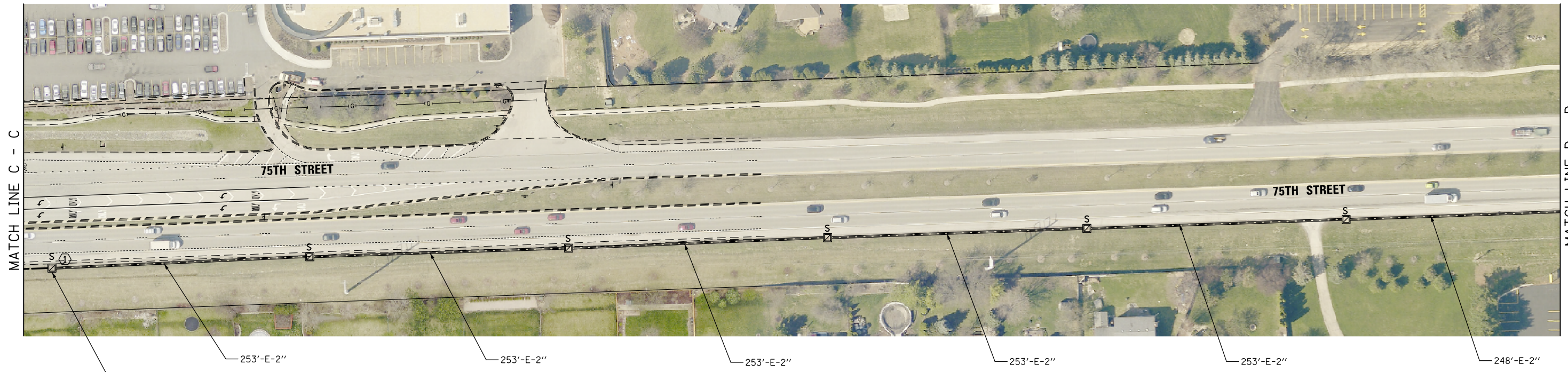
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	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 2 OF 4)
75TH STREET AND NAPER BOULEVARD

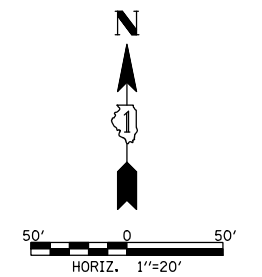
SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F66	



CONSTRUCTION NOTES:

① THE CONTRACTOR SHALL INSTALL THE PREVIOUSLY COILED FIBER OPTIC CABLES IN THE PROPOSED CONDUIT LEADING TO THE PROPOSED TRAFFIC SIGNAL CABINET AT 75TH STREET AND NAPER BOULEVARD. NEW TRACER CABLE SHALL BE INSTALLED FROM THE PROPOSED TRAFFIC SIGNAL CABINET AT 75TH STREET AND NAPER BOULEVARD TO THE TEMPORARY CABLE SPLICE POINT ON EACH INTERCONNECT RUN. THE NEW TRACER CABLE WILL THEN BE SPLICED TO THE EXISTING TRACER CABLE OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISION FOR CABLE SPLICE SPECIAL FOR MORE DETAILS.

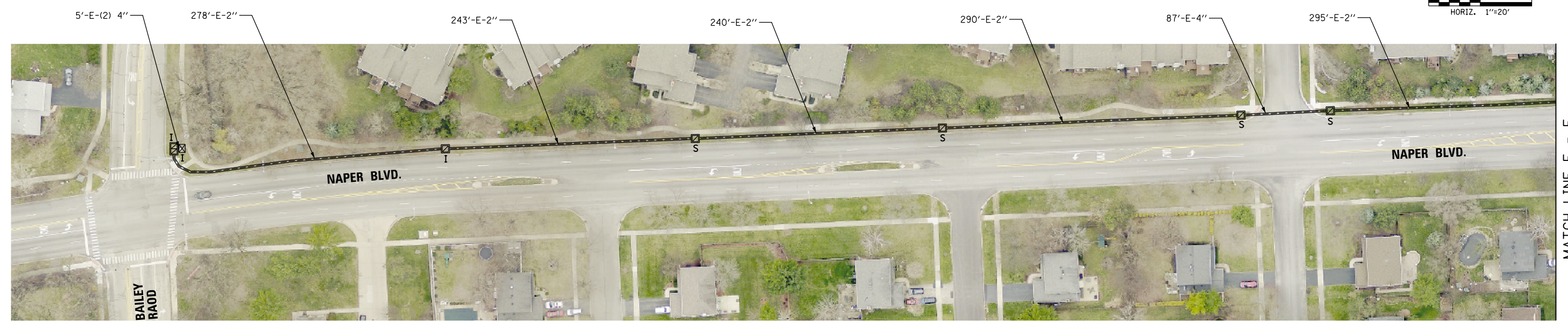
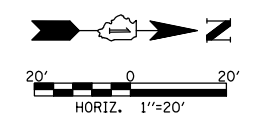


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	PLOT SCALE = 100'	CHECKED - GMZ	REVISED -
	PLOT DATE = 1/28/2019	DATE -	REVISED -

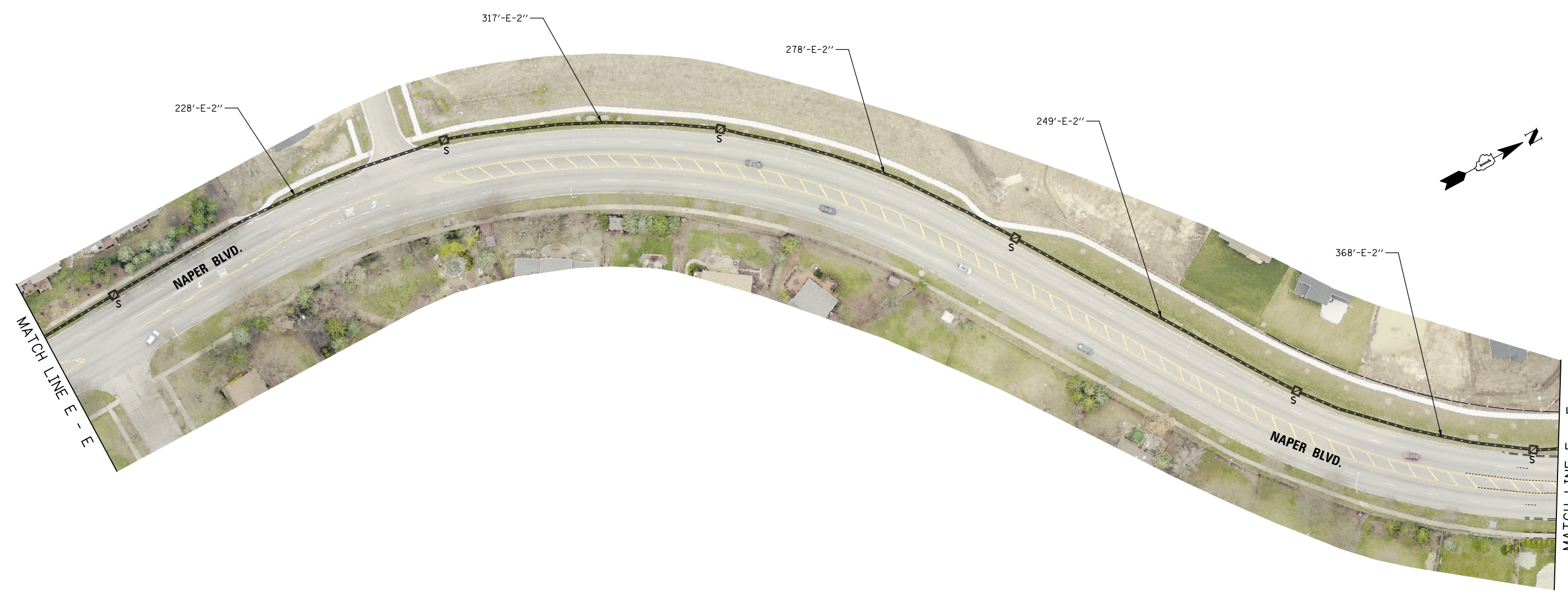
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN (SHEET 3 OF 4) 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 100'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	43
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61F66	



MATCH LINE E - E



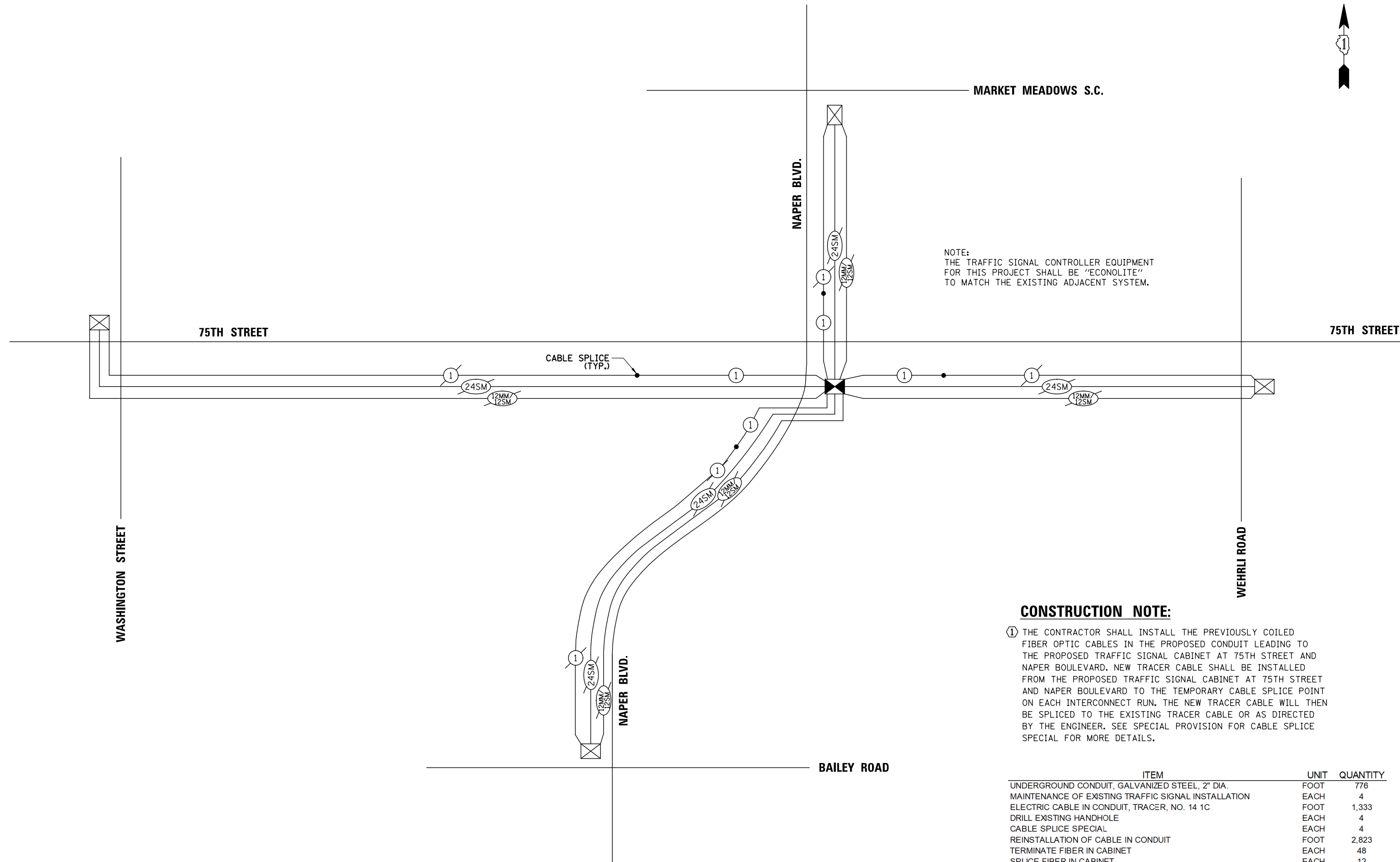
MATCH LINE F - F
(SEE SHEET 2 OF 4)

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	PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERCONNECT PLAN (SHEET 4 OF 4) 75TH STREET AND NAPER BOULEVARD			
SCALE: 1" = 100'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	44
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F66



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

CONSTRUCTION NOTE:

① THE CONTRACTOR SHALL INSTALL THE PREVIOUSLY COILED FIBER OPTIC CABLES IN THE PROPOSED CONDUIT LEADING TO THE PROPOSED TRAFFIC SIGNAL CABINET AT 75TH STREET AND NAPER BOULEVARD. NEW TRACER CABLE SHALL BE INSTALLED FROM THE PROPOSED TRAFFIC SIGNAL CABINET AT 75TH STREET AND NAPER BOULEVARD TO THE TEMPORARY CABLE SPLICE POINT ON EACH INTERCONNECT RUN. THE NEW TRACER CABLE WILL THEN BE SPLICED TO THE EXISTING TRACER CABLE OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISION FOR CABLE SPLICE SPECIAL FOR MORE DETAILS.

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	776
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,333
DRILL EXISTING HANDHOLE	EACH	4
CABLE SPLICE SPECIAL	EACH	4
REINSTALLATION OF CABLE IN CONDUIT	FOOT	2,823
TERMINATE FIBER IN CABINET	EACH	48
SPLICE FIBER IN CABINET	EACH	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

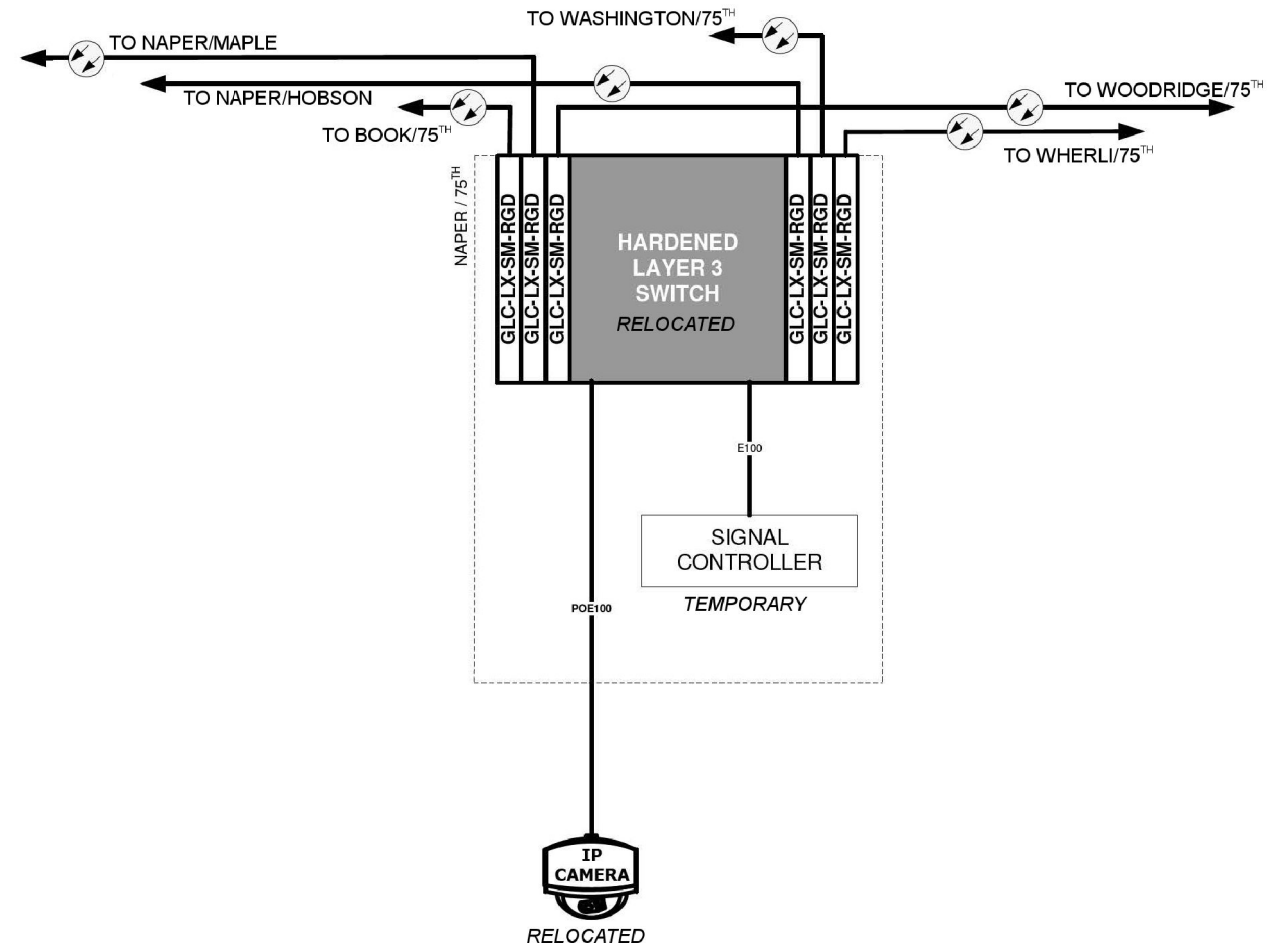
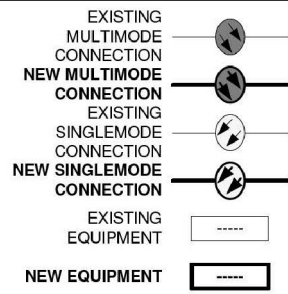
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PLOT SCALE = 100'		CHECKED - GMZ	REVISED -
PLOT DATE = 1/28/2019		DATE -	REVISED -

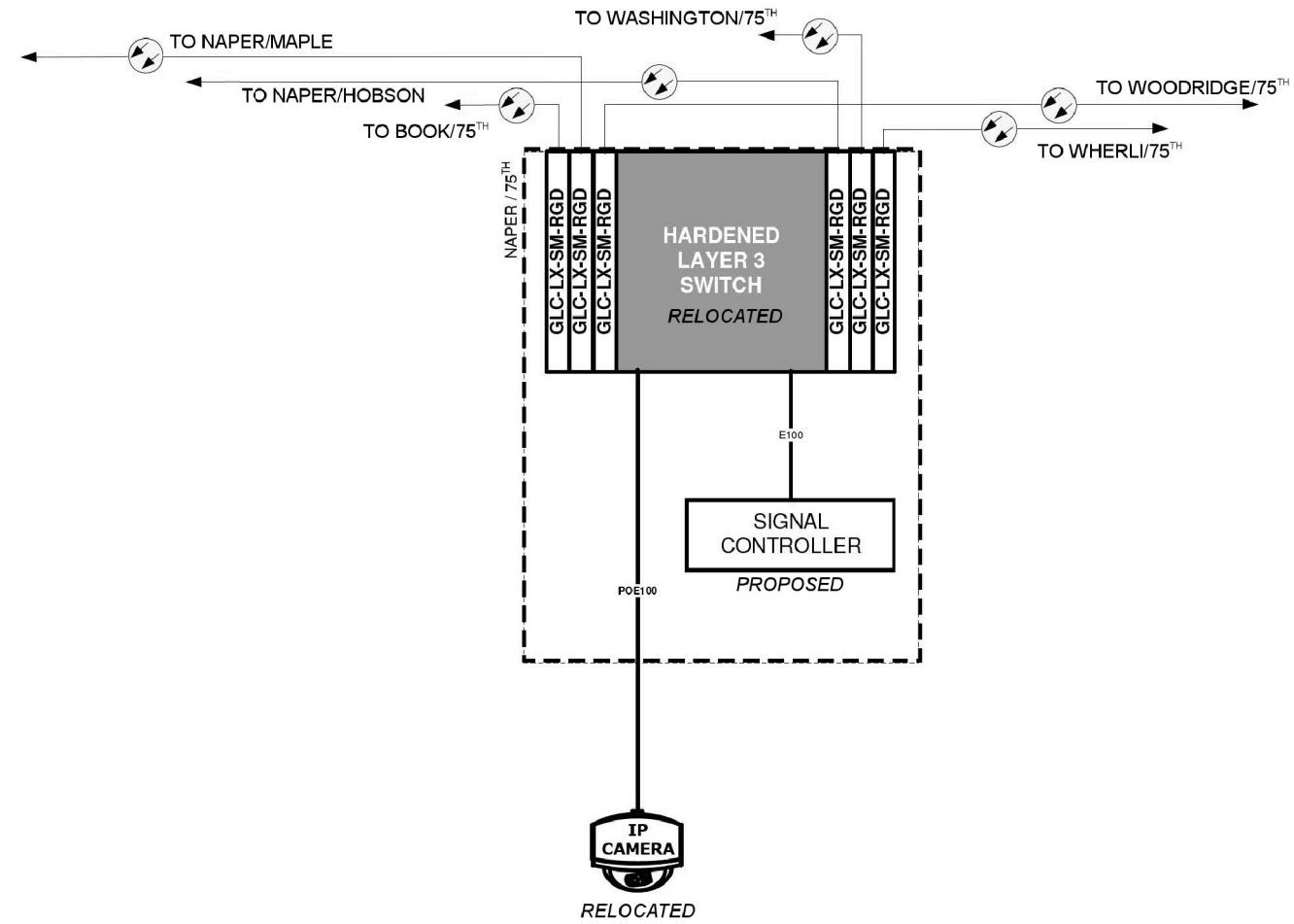
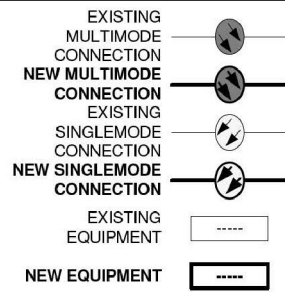
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC
75TH STREET AND NAPER BOULEVARD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	45
CONTRACT NO.			61F66	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





DuPage County
Division of Transportation

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

INTERSECTION IMPROVEMENT
NAPER BLVD AT 75TH STREET

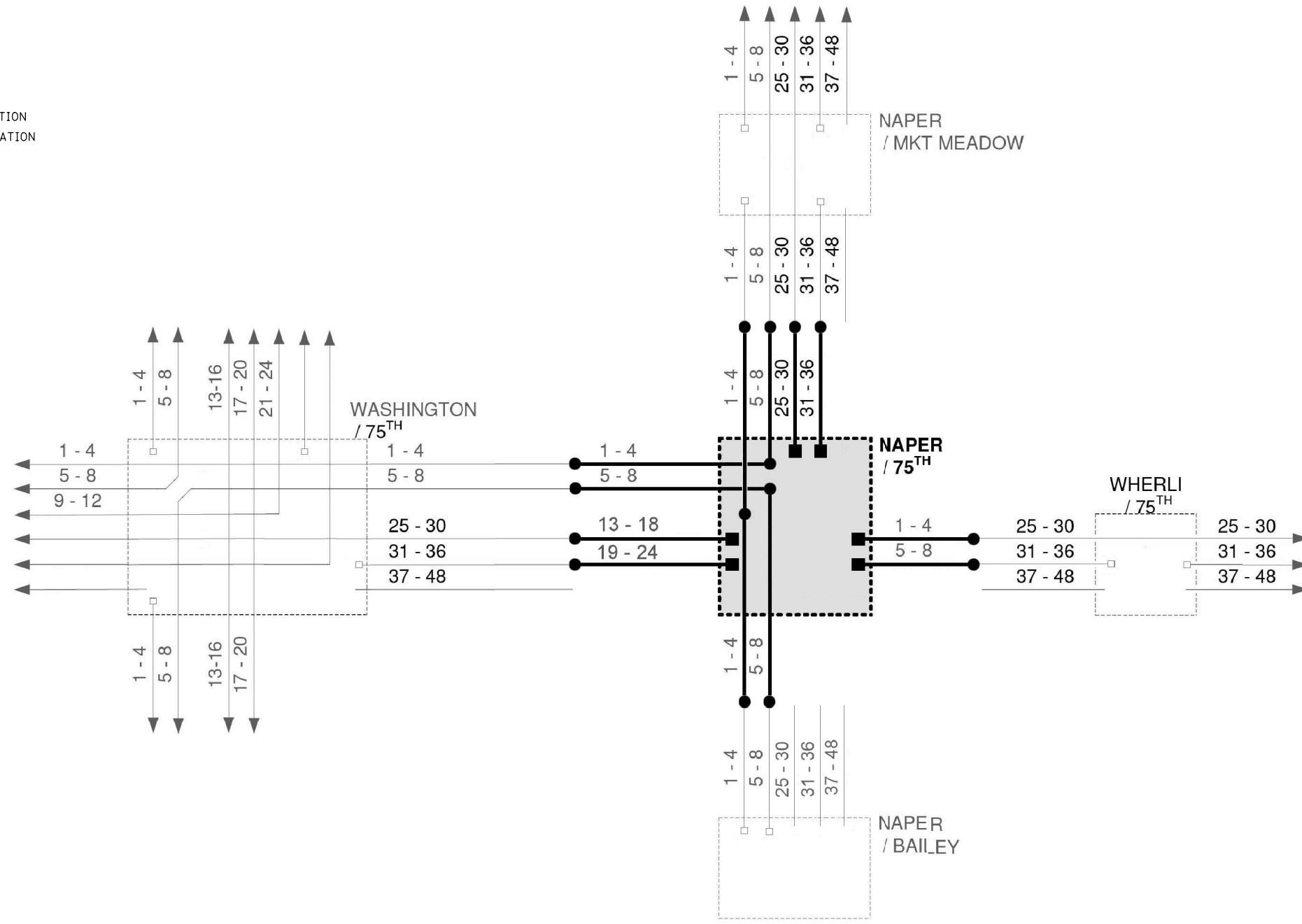
PROPOSED CABINET DETAIL
NAPER / 75TH

SCALE N/A

ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
FAP	0369	17-00233-03-SP	53	47

LEGEND

- PROPOSED CABLE SPLICE
- TEMPORARY CABLE SPLICE
- PROPOSED CABLE TERMINATION
- TEMPORARY CABLE TERMINATION



NOTES:

FIBER NUMBERING SCHEME IS ONLY FOR THE NUMBER OF SINGLE MODE FIBERS. EXISTING AND PROPOSED MULTIMODE FIBER ARE NOT SHOWN OR NUMBERED. EXISTING SINGLE MODE FIBERS HAVE BEEN NUMBERED 1 THRU 24. PROPOSED SINGLE MODE FIBERS HAVE BEEN NUMBERED 25-48. THE CONTRACTOR SHOULD REFER TO THE INTERCONNECT SCHEMATIC TO DETERMINE THE NUMBER AND TYPE OF FIBER AT ANY LOCATION.

THE CONTRACTOR SHALL MAKE ALL NECESSARY MULTIMODE TERMINATIONS REQUIRED TO OPERATE SERIAL INTERCONNECTED TRAFFIC SIGNAL SYSTEMS ACCORDING TO THE CABINET DETAILS, CABLE PLANS, PROJECT SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER.



DuPage County
Division of Transportation

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

INTERSECTION IMPROVEMENT
NAPER BLVD AT 75TH STREET

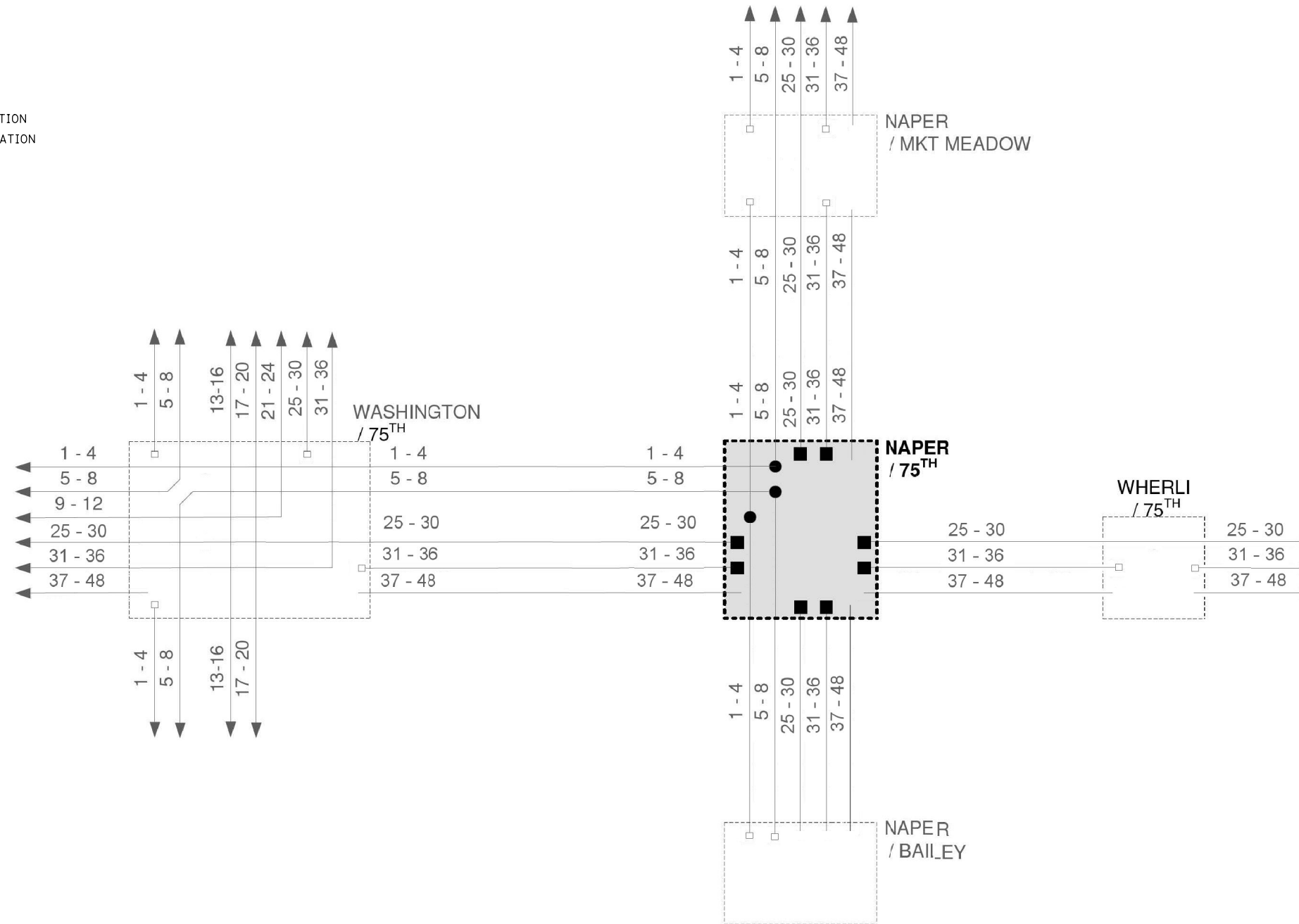
TEMPORARY FIBER SPLICING DIAGRAM
FSD 7

SCALE N/A

ROUTE	SECTION	ROUTE SECTION	SHEET	SHEETS
FAP	0369	17-00233-03-SP	53	48

LEGEND

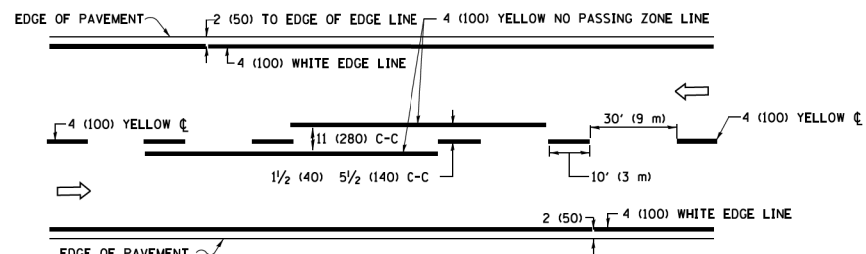
- PROPOSED CABLE SPLICE
- TEMPORARY CABLE SPLICE
- PROPOSED CABLE TERMINATION
- TEMPORARY CABLE TERMINATION



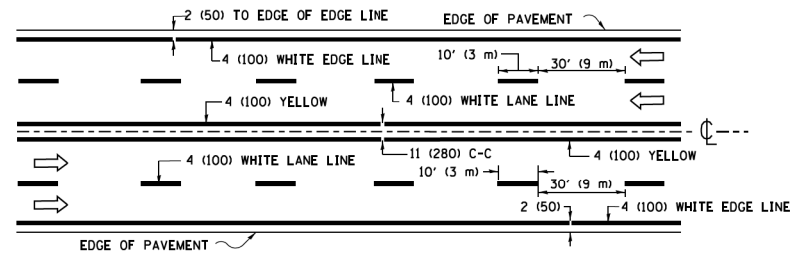
NOTES:

FIBER NUMBERING SCHEME IS ONLY FOR THE NUMBER OF SINGLE MODE FIBERS. EXISTING AND PROPOSED MULTIMODE FIBER ARE NOT SHOWN OR NUMBERED. EXISTING SINGLE MODE FIBERS HAVE BEEN NUMBERED 1 THRU 24. PROPOSED SINGLE MODE FIBERS HAVE BEEN NUMBERED 25-48. THE CONTRACTOR SHOULD REFER TO THE INTERCONNECT SCHEMATIC TO DETERMINE THE NUMBER AND TYPE OF FIBER AT ANY LOCATION.

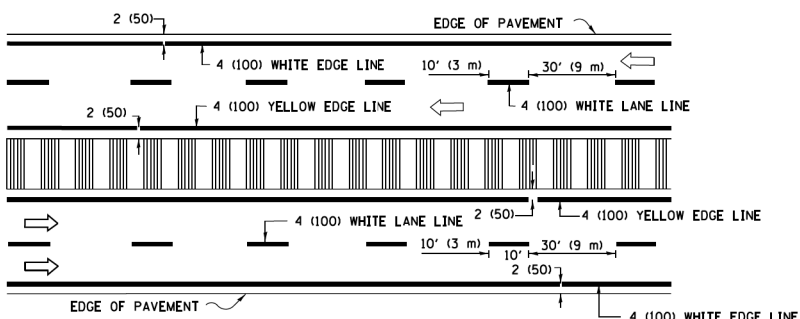
THE CONTRACTOR SHALL MAKE ALL NECESSARY MULTIMODE TERMINATIONS REQUIRED TO OPERATE SERIAL INTERCONNECTED TRAFFIC SIGNAL SYSTEMS ACCORDING TO THE CABINET DETAILS, CABLE PLANS, PROJECT SPECIFICATIONS, OR AS DIRECTED BY THE ENGINEER.



2-LANE ROADWAY

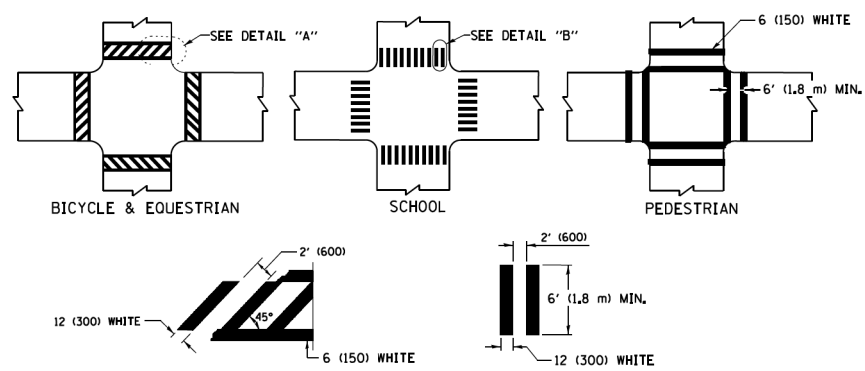


MULTI-LANE UNDIVIDED



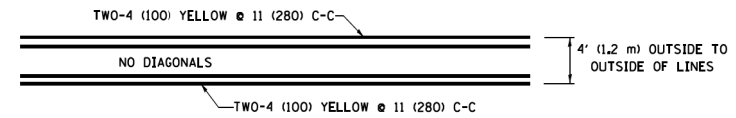
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

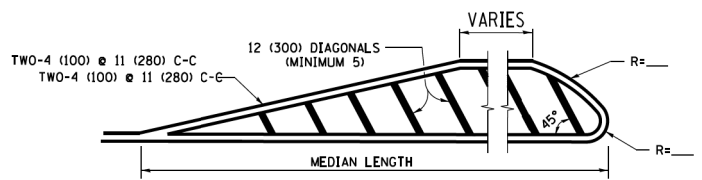


TYPICAL CROSSWALK MARKING

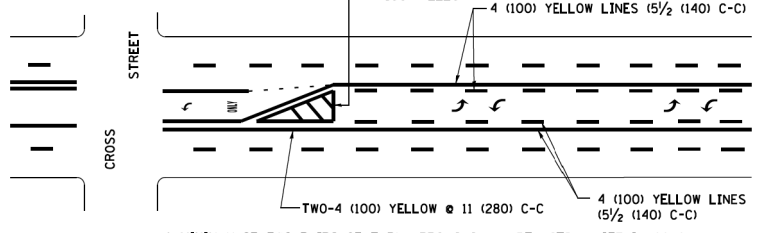
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



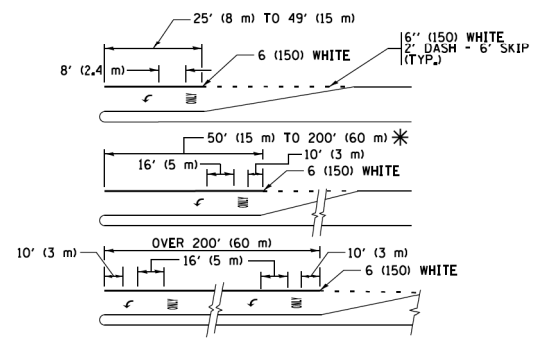
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



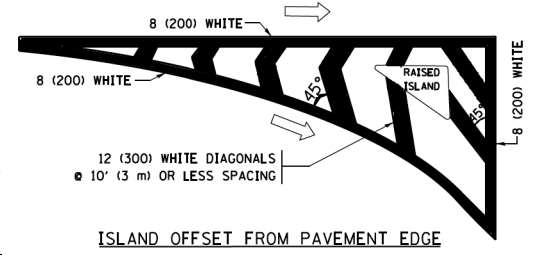
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



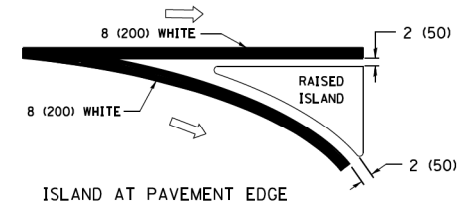
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

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

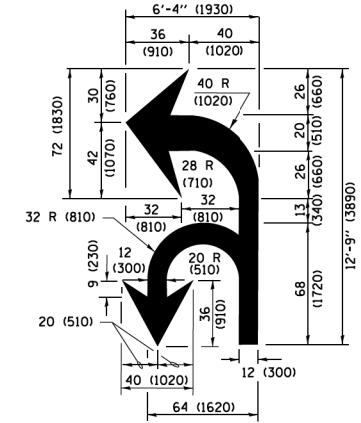
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



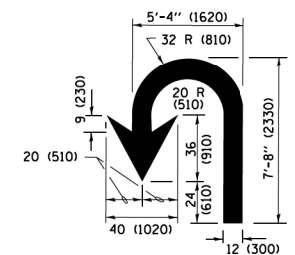
ISLAND OFFSET FROM PAVEMENT EDGE



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 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (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 "RR" IS 6' (1.8 m) "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

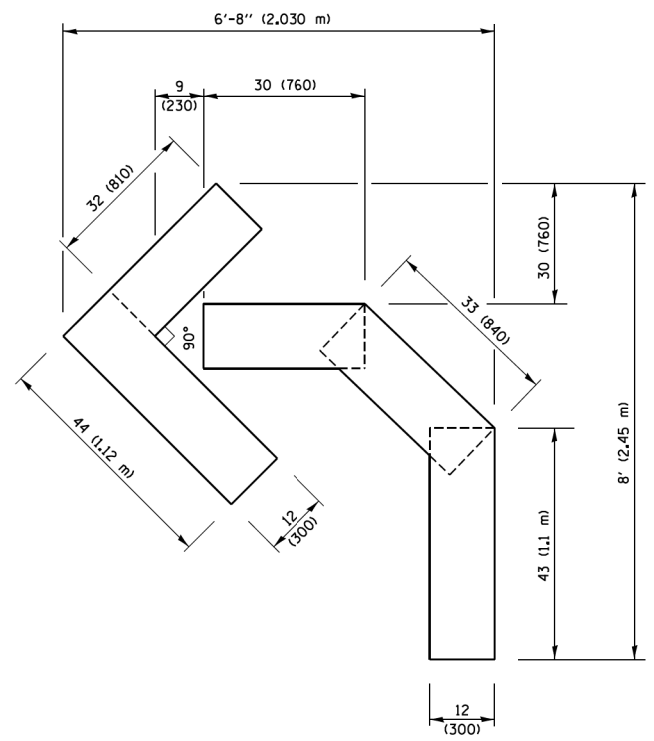
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME =	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
		DRAWN -	REVISED - C. JUCIUS 07-01-13
		CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

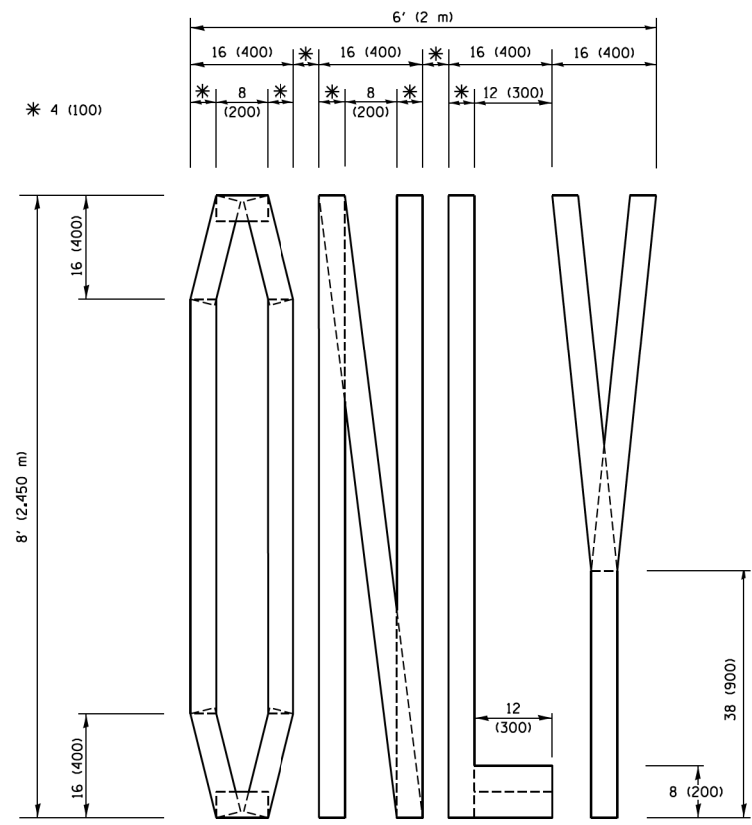
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE DETAIL		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		0369	17-00233-03-SP	DUPAGE	53	51
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.		TC-13		CONTRACT NO. 61F66		

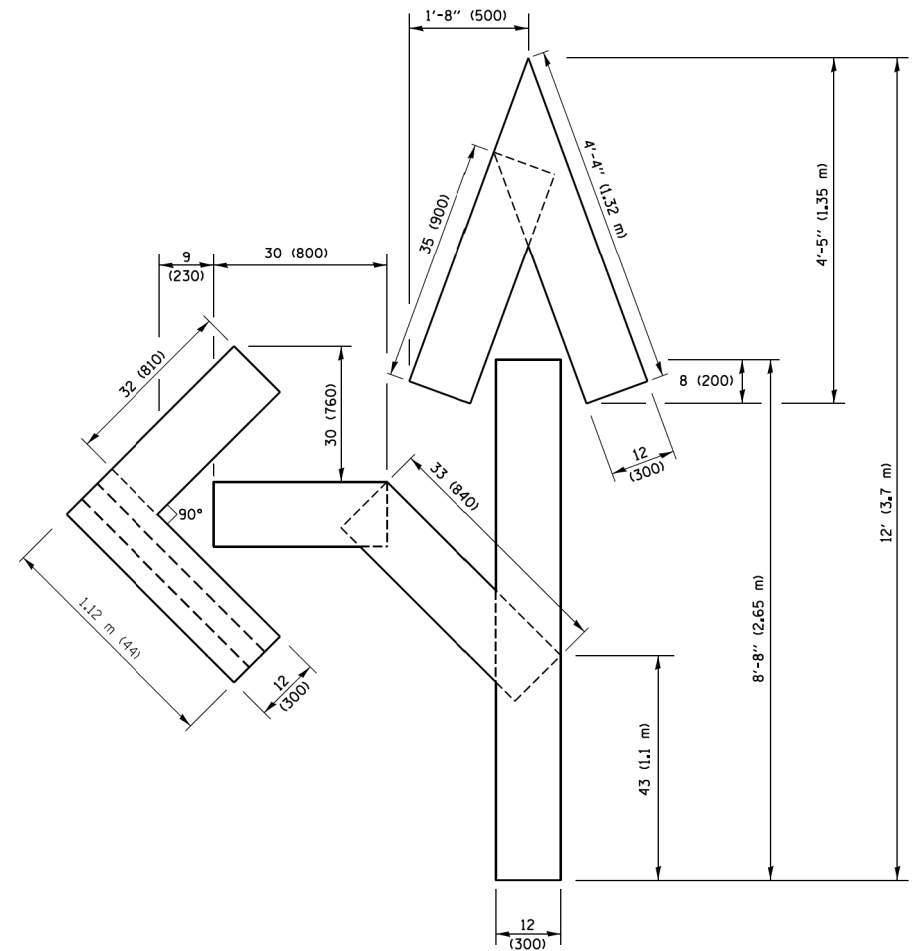
ILLINOIS FED. AID PROJECT	
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QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

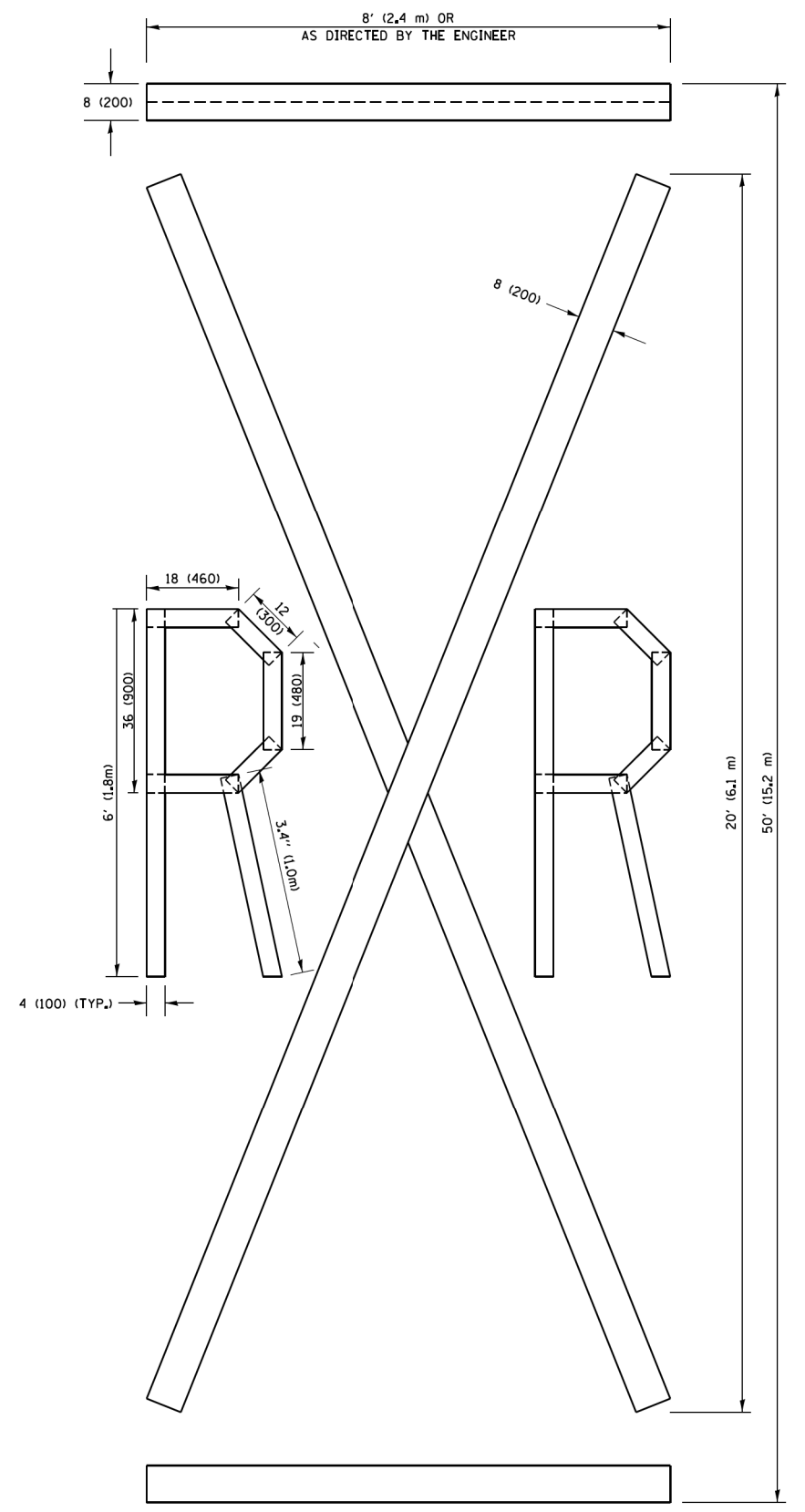


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

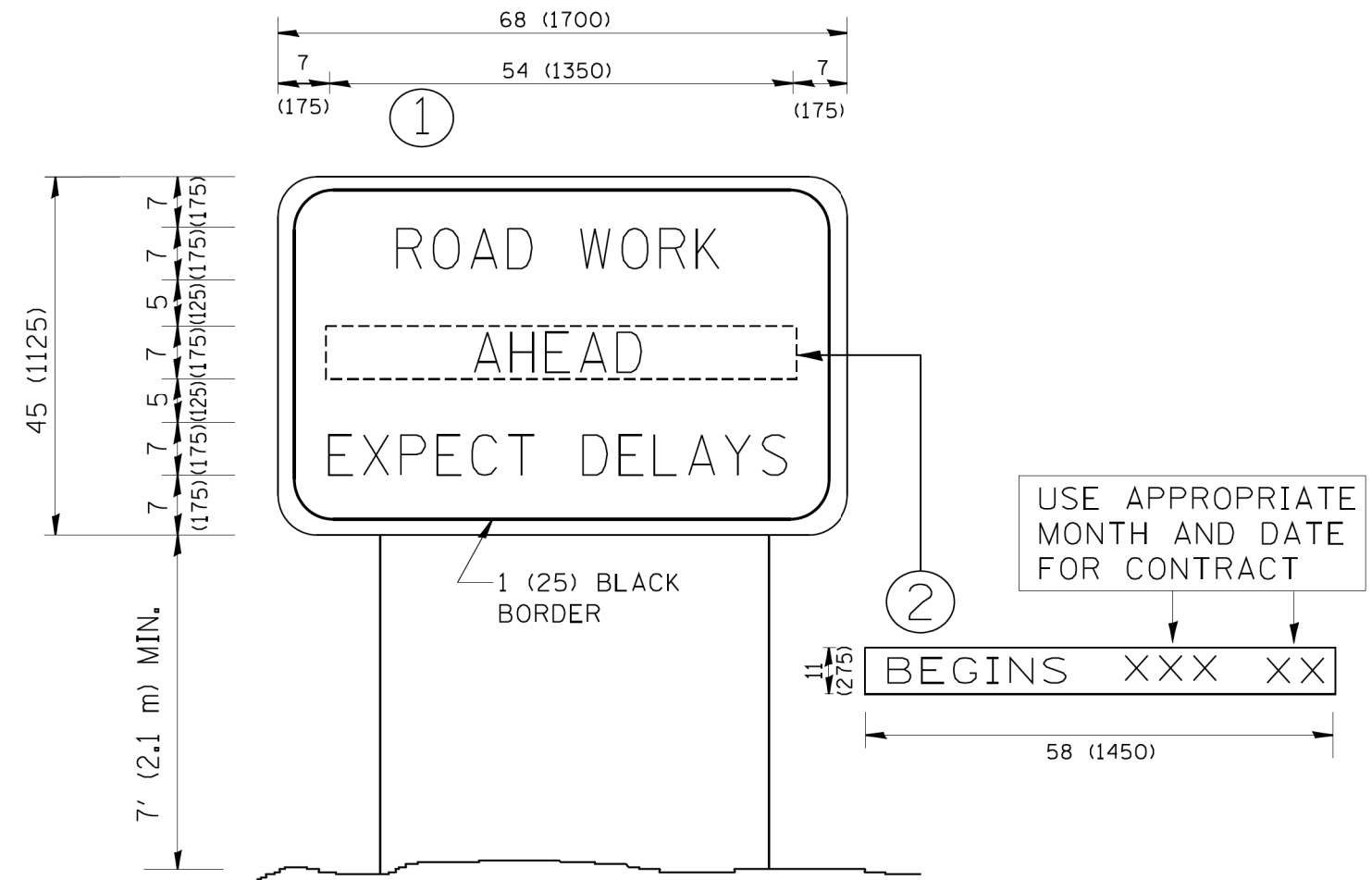
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME =	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
		DRAWN -	REVISED - E. GOMEZ 08-28-00
		CHECKED -	REVISED - E. GOMEZ 08-28-00
		DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE DETAIL	
SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	
SCALE:	SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	52
TC-16		CONTRACT NO. 61F66		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME =	USER NAME =	DESIGNED -	REVISED -R. MIRS 09-15-97
		DRAWN -	REVISED -R. MIRS 12-11-97
		CHECKED -	REVISED -T. RAMMACHER 02-02-99
		DATE -	REVISED -C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAIL
ARTERIAL ROAD INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0369	17-00233-03-SP	DUPAGE	53	53
TC-22		CONTRACT NO. 61F66		
ILLINOIS FED. AID PROJECT				