

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363	18-00493-00-SP	KANE	46	1
ILLINOIS			CONTRACT NO. 61G91	

FOR INDEX OF SHEETS, SEE SHEET NO. 2 04-23-2021 LETTING ITEM 005

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC DATA:

FABYAN PARKWAY (FAP 363):
OTHER PRINCIPAL ARTERIAL
POSTED SPEED = 40 MPH
ADT (2017) = 29,200

IL ROUTE 31:
MINOR ARTERIAL
POSTED SPEED = 40 MPH
ADT (2019) = 7,050 NORTH OF FABYAN PARKWAY
ADT (2019) = 9,050 SOUTH OF FABYAN PARKWAY

ORCHARD ROAD (FAP 336):
STRATEGIC REGIONAL ARTERIAL (SRA)
POSTED SPEED = 45 MPH
ADT (2017) = 29,900

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
FAP ROUTE 363 (FABYAN PARKWAY) AT IL ROUTE 31
FAP ROUTE 336 (ORCHARD ROAD), US 30 TO JERICO ROAD
SECTION 18-00493-00-SP
PROJECT: 11JF(707)
HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
KANE COUNTY

C-91-301-19



PREPARED BY:
Peralta-Clark LLC
171 West Wing Street, Suite 204B
Arlington Heights, IL 60005
(847) 485-8069

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED January 7, 2021
KANE COUNTY DIVISION OF TRANSPORTATION

PASSED 2.20.21
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

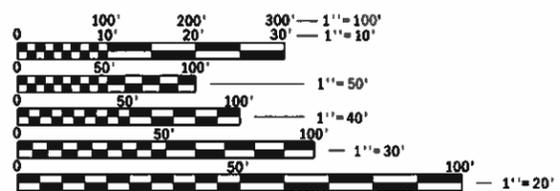
RELEASING FOR BID BASED ON LIMITED REVIEW Feb. 22, 2021
REGIONAL ENGINEER

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OF THE STATE OF ILLINOIS**

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



Jennifer Morales 1/11/21
JENNIFER S. MORALES DATE
LICENSE EXPIRES 11/30/2021

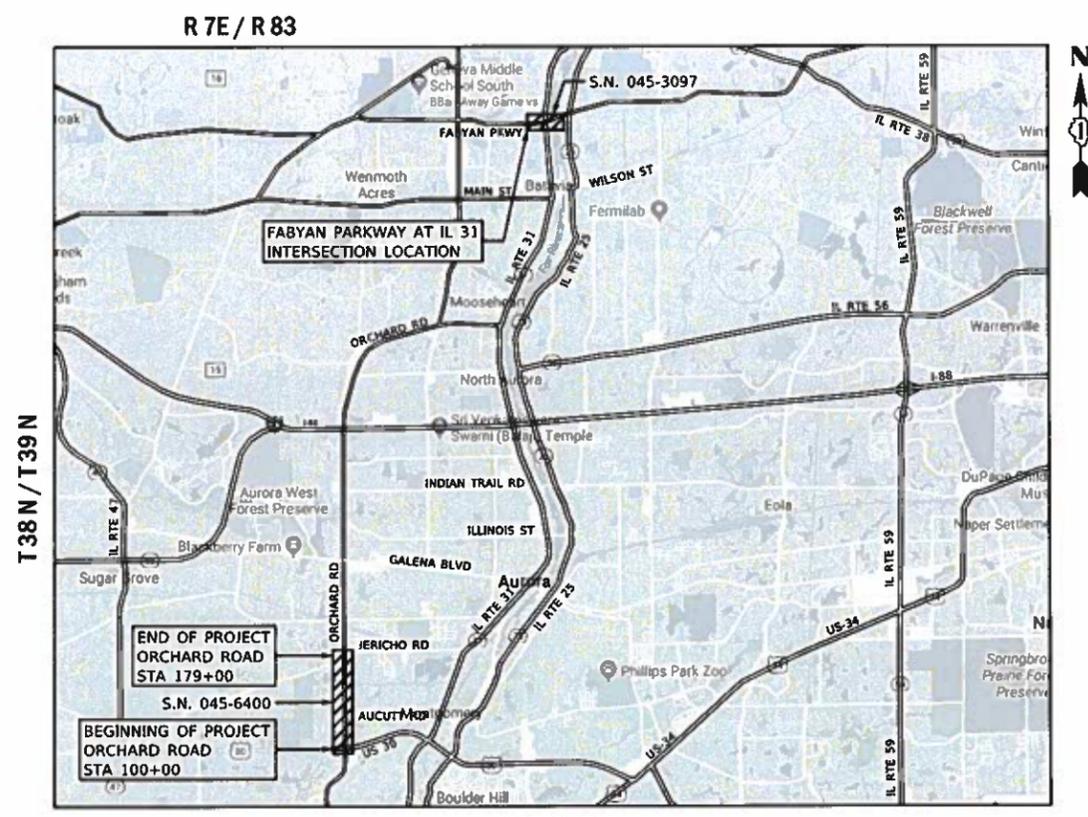


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JENNIFER MORALES, P.E., ENV SP
PROJECT MANAGER: JOHN CLARK, P.E., ENV SP

CONTRACT NO. 61G91



LOCATION MAP

N.T.S.
GROSS LENGTH = 10,975 FT. = 2.08 MILE
NET LENGTH = 10,975 FT. = 2.08 MILE

GENERAL NOTES

THE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2021; AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE ILLINOIS HIGHWAY STANDARD DETAILS, AND THE PLANS.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING FACILITIES TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE HAULED OFF-SITE.

THE WORK AREA SHALL BE POSITIVELY DRAINED THROUGHOUT CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

RELOCATED SIGNS AND PROPOSED SIGNS SHALL BE INSTALLED WITH SUPPORTING CHANNELS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

RETROREFLECTIVE BACKPLATES SHALL UTILIZE 1 INCH TAPE AT ORCHARD ROAD (KANE CO.) LOCATIONS.

CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER TO BE USED WITH PEDESTRIAN SIGNAL POSTS AT ORCHARD ROAD/AUCUTT ROAD AND ORCHARD ROAD/ROCHESTER DRIVE LOCATIONS (KANE CO.).

UTILITIES

WIDE OPEN WEST (WOW)	(630) 536-3139
AT&T	(630) 573-5450
CITY OF BATAVIA	(630) 454-2760
COMED	(630) 576-7094
COMCAST	(224) 229-5862
CITY OF GENEVA	(630) 232-1503
KANE COUNTY DOT	(630) 584-1170
NICOR	(630) 388-3319
AURORA TOWNSHIP	(630) 892-0246
CITY OF AURORA	(630) 256-3712
FOX METRO WATER	(630) 301-6805
METRO FIBERNET	(812) 759-7967
MIDWEST FIBER NETWORKS	(414) 459-3554
VILLAGE OF MONTGOMERY	(630) 896-9241
MEDIACOM	(815) 716-0582

NOTE:
THE LOCATIONS OF BURIED AND ABOVE-GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE-GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVE-GROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

INDEX OF SHEETS

FROM	TO	SHEET TYPE / TITLE
1		COVER SHEET
2		INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3	TO 6	SUMMARY OF QUANTITIES
7	TO 8	TYPICAL SECTIONS
9	TO 13	ALIGNMENT, TIES, AND BENCHMARKS
14		REMOVAL DETAILS
15	TO 19	PAVEMENT MARKING AND SIGNING PLAN
20	TO 23	ADA AND SIDEWALK DETAILS
24	TO 30	D1 TRAFFIC SIGNAL DESIGN DETAILS
31	TO 39	TRAFFIC SIGNAL PLANS
40	TO 42	MISCELLANEOUS DETAILS
43		IDOT DISTRICT ONE STANDARD DETAIL TC-10
44		IDOT DISTRICT ONE STANDARD DETAIL TC-13
45		IDOT DISTRICT ONE STANDARD DETAIL TC-14
46		IDOT DISTRICT ONE STANDARD DETAIL TC-22

LIST OF STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
781001-04	TYPICAL PAVEMENT MARKINGS
880006-01	TRAFFIC SIGNAL MOUNT DETAILS
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING

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	DRAWN - JSM/AH	REVISED -
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PLOT DATE = 3/3/2021	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
GENERAL NOTES AND LIST OF STATE STANDARDS**

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

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 2
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0021			
					HSIP FUNDS (90% FEDERAL / 10% LOCAL)		NON HSIP (100% LOCAL)	
					ORCHARD ROAD	FABYAN PARKWAY	ORCHARD ROAD	FABYAN PARKWAY
**	20200100	EARTH EXCAVATION	CU YD	30			17	13
**	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	335			146	189
**	25000210	SEEDING, CLASS 2A	ACRE	1.0			0.5	0.5
**	25100630	EROSION CONTROL BLANKET	SQ YD	335			146	189
**	31101200	SUBBASE GRANULAR MATERIAL, TYPE B, 4"	SQ YD	186			39	147
**	31101600	SUBBASE GRANULAR MATERIAL, TYPE B, 8"	SQ YD	112			41	71
**	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUNDS	50			25	25
**	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	12			6	6
**	42001300	PROTECTIVE COAT	SQ YD	246			55	191
**	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	1,665			345	1,320
**	42400800	DETECTABLE WARNINGS	SQ FT	114			53	61
**	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	182			32	150
**	44000600	SIDEWALK REMOVAL	SQ FT	638				638
**	60600605	CONCRETE CURB, TYPE B	FOOT	166			36	130
**	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	96				96
**	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	32			32	
	66900300	NON SPECIAL WASTE DISPOSAL	CU YD	5	5			
	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1			
	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			
	66901006	REGULATED SUBSTANCES MONITORING	CAL DAY	2	2			
	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			

**DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
SUMMARY OF QUANTITIES

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

F.A.P. RTE. 363 336	SECTION 18-00493-00-SP	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 3
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0021			
					HSIP FUNDS (90% FEDERAL / 10% LOCAL)		NON HSIP (100% LOCAL)	
					ORCHARD ROAD	FABYAN PARKWAY	ORCHARD ROAD	FABYAN PARKWAY
	67100100	MOBILIZATION	L SUM	1	0.5	0.5		
	70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	135	90	45		
	72000100	SIGN PANEL - TYPE 1	SQ FT	128.0	48.0	10.0	47.5	22.5
	72000200	SIGN PANEL - TYPE 2	SQ FT	32.0		32.0		
	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	37.5			37.5	
**	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,020	801			219
**	78009024	MODIFIED URETHANE PAVEMENT MARKING, LINE 24"	FOOT	527	382			145
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	24,695	17,040			7,655
	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	145		145		
	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2.5" DIA.	FOOT	87	87			
	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	265		265		
	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	425		425		
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	2	1		
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	711	500	211		
	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,977	500	3,477		
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,624	1,624			
	87601200	TRAFFIC SIGNAL POST, 16 FT.	CACH	1	1			
	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18'	EACH	6		1	5	
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	28	4	4	20	
	87900200	DRILL EXISTING HANDHOLE	EACH	6	2	4		
	88030012	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	4		4		

**DENOTES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 563 336	SECTION 18-00493-00-SP	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G91	

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0021			
					HSIP FUNDS (90% FEDERAL / 10% LOCAL)		NON HSIP (100% LOCAL)	
					ORCHARD ROAD	FABYAN PARKWAY	ORCHARD ROAD	FABYAN PARKWAY
	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1			
	88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	4	4			
	88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	4	4			
	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4			2	2
	88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	24	24			
	88800100	PEDESTRIAN PUSH-BUTTON	EACH	2				2
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1,750	1,750			
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	2	1		
	X0325476	RADAR VEHICLE DETECTION SYSTEM	EACH	1		1		
	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	1,500	1,000	500		
**	X0327036	BIKE PATH REMOVAL	SQ YD	112			41	71
	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1		
	X1400102	OUTDOOR RATED NETWORK CABLE	FOOT	63		63		
	X1400235	DOUBLE HANDHOLE TO BE ADJUSTED	EACH	1				1
	X1400367	PEDSTRIAN SIGNAL POST, 10 FT	EACH	3			2	1
	X1400378	PEDESTRIAN SIGNAL POST, 5 FT	EACH	1				1
**	X2700006	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 4"	FOOT	42,954	28,839			14,115
**	X2700010	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 6"	FOOT	8,925	6,314			2,611
**	X2700026	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 12"	FOOT	3,835	2,701			1,134
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.5		
**	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING, 5"	FOOT	42,954	28,839			14,115

**DENOTES SPECIALTY ITEM

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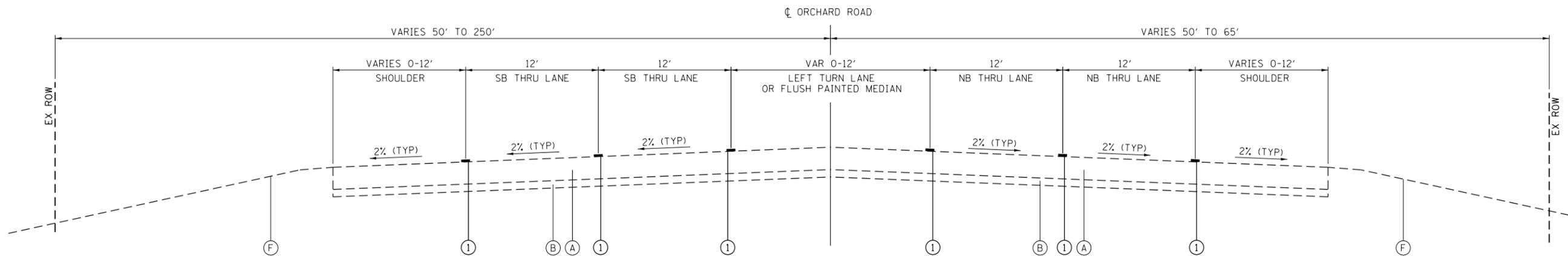
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

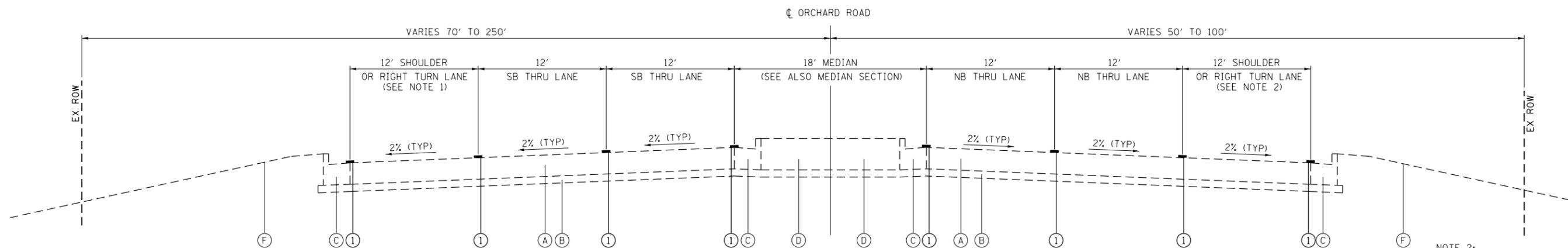
KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 363 336	SECTION 18-00493-00-SP	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 5
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	



TYPICAL SECTION - ORCHARD ROAD
STA 100+52 TO STA 111+22

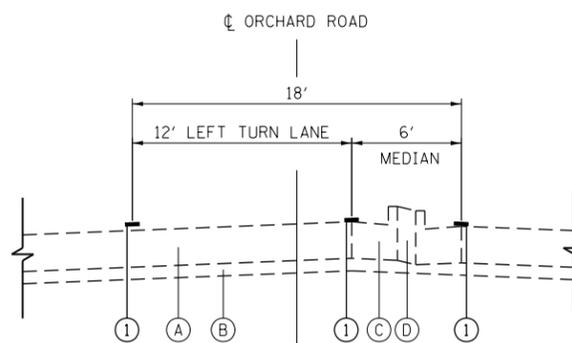


TYPICAL SECTION - ORCHARD ROAD
STA 111+22 TO STA 178+21

NOTE 1:
REFER TO PLAN SHEETS FOR
RIGHT TURN LANE LOCATIONS
STA 111+22 TO STA 116+45

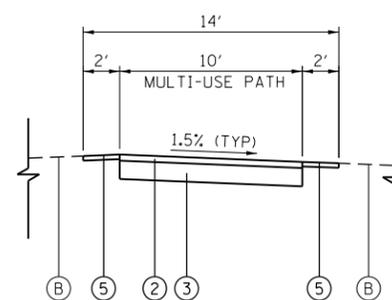
NOTE: REFER TO PROPOSED IMPROVEMENT PLANS
AND ADA RAMP DETAILS FOR LOCATIONS OF
MULTI-USE PATH AND PCC SIDEWALK.

NOTE 2:
REFER TO PLAN SHEETS FOR
RIGHT TURN LANE LOCATIONS
STA 116+70 TO STA 126+13
STA 142+91 TO STA 146+31
STA 150+77 TO STA 154+42
STA 155+46 TO STA 162+96
STA 167+96 TO STA 171+86
STA 174+54 TO STA 178+36



**MEDIAN SECTION - ORCHARD ROAD
LEFT TURN LANE**

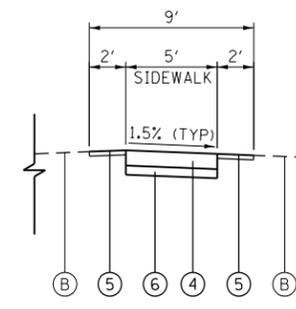
SB STA 116+13 TO STA 120+16
SB STA 127+68 TO STA 132+54
SB STA 147+59 TO STA 151+72
SB STA 155+46 TO STA 159+86
SB STA 164+56 TO STA 168+22
NB STA 160+38 TO STA 162+97
NB STA 173+67 TO STA 178+40



MULTI-USE PATH TYPICAL SECTION

STA 126+10 TO STA 126+48

NOTE 3:
LOCATION IS APPROXIMATE.
REFER TO PROPOSED IMPROVEMENT PLANS AND
ADA RAMP DETAILS FOR ADDITIONAL INFORMATION.



SIDEWALK TYPICAL SECTION

SW AND SE QUADRANTS OF
ORCHARD ROAD @ AUCUTT ROAD

LEGEND - EXISTING TYPICAL SECTIONS

- (A) EXISTING HMA OR PCC PAVEMENT
- (B) EXISTING GRANULAR SUB-BASE
- (C) EXISTING COMBINATION CURB AND GUTTER
- (D) EXISTING CONCRETE BARRIER MEDIAN
- (E) EXISTING SIDEWALK
- (F) EXISTING GRADING

LEGEND - PROPOSED TYPICAL SECTIONS

- (1) PROPOSED PAVEMENT MARKING
(REFER TO PLAN SHEETS FOR TYPE
AND LOCATION)
- (2) HMA SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- (3) SUBBASE GRANULAR MATERIAL, TYPE B, 8"
- (4) PCC SIDEWALK, 5"
- (5) TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- (6) SUBBASE GRANULAR MATERIAL, TYPE B, 4"

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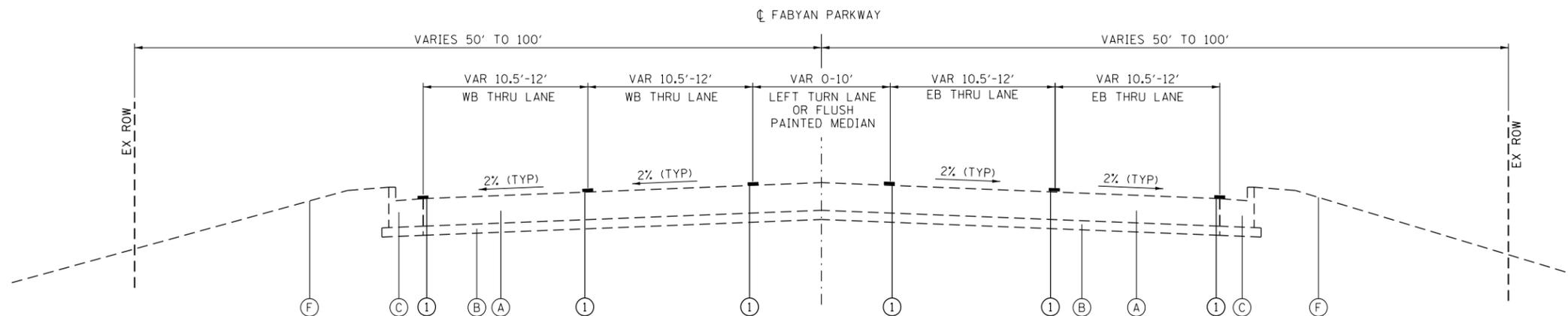
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STATE OF ILLINOIS
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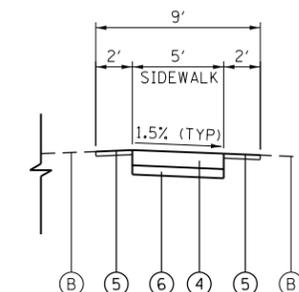
KDOT 2018 HSIP: ORCHARD ROAD, US 30 TO JERICHO ROAD
TYPICAL SECTIONS

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 7
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	

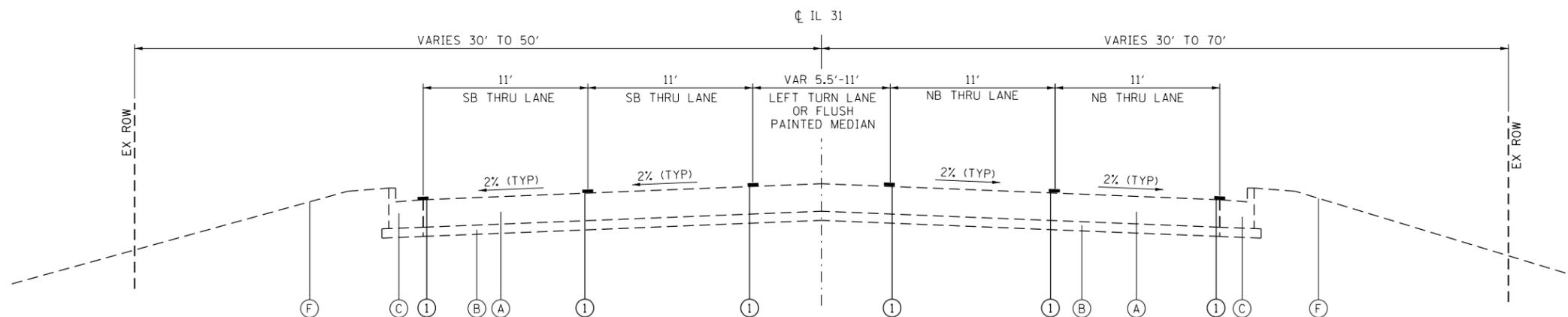


TYPICAL SECTION - FABYAN PARKWAY
 STA 60+98 TO STA 81+59
 EB LEFT TURN LANE: STA 66+97 TO STA 72+22
 WB LEFT TURN LANE: STA 73+75 TO STA 76+75

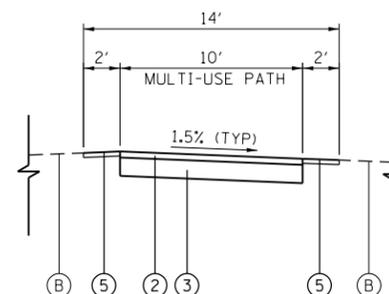


SIDEWALK TYPICAL SECTION
 NW, SW AND SE QUADRANTS OF
 FABYAN PKWY @ IL 31 INTERSECTION

NOTE:
 REFER TO PROPOSED IMPROVEMENT PLANS AND
 ADA RAMP DETAILS FOR LOCATIONS OF
 MULTI-USE PATH AND PCC SIDEWALK.



TYPICAL SECTION - IL 31
 STA 23+83 TO STA 34+76
 NB LEFT TURN LANE: STA 26+18 TO STA 29+38
 SB LEFT TURN LANE: STA 30+85 TO STA 34+06



MULTI-USE PATH TYPICAL SECTION
 NW, SW AND SE QUADRANTS OF
 FABYAN PKWY @ IL 31 INTERSECTION

LEGEND - EXISTING TYPICAL SECTIONS

- (A) EXISTING HMA OR PCC PAVEMENT
- (B) EXISTING GRANULAR SUB-BASE
- (C) EXISTING COMBINATION CURB AND GUTTER
- (D) EXISTING CONCRETE BARRIER MEDIAN
- (E) EXISTING SIDEWALK
- (F) EXISTING GRADING

LEGEND - PROPOSED TYPICAL SECTIONS

- (1) PROPOSED PAVEMENT MARKING (REFER TO PLAN SHEETS FOR TYPE AND LOCATION)
- (2) HMA SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- (3) SUBBASE GRANULAR MATERIAL, TYPE B, 8"
- (4) PCC SIDEWALK, 5"
- (5) TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- (6) SUBBASE GRANULAR MATERIAL, TYPE B, 4"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USES	MIXTURE TYPE	AIR VOIDS @Ndes
MULTI-USE PATH/BIKEWAY	HMA SURFACE COURSE MIX "D", IL-9.5, N50	4% @ 50 GYR.

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: 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 SPECIAL PROVISIONS.
- NOTE 3: FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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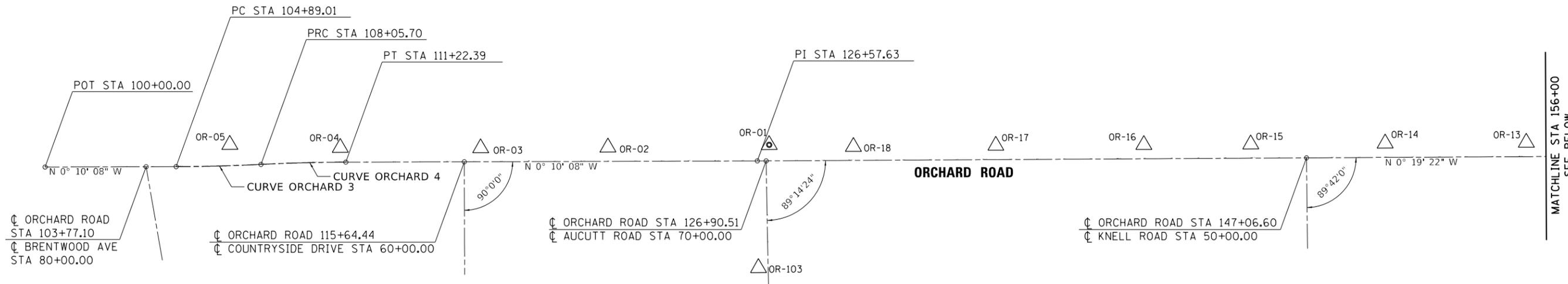
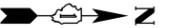
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	DRAWN - JSM/AH	REVISED -
PLOT SCALE =	CHECKED - JAC/MET	REVISED -
PLOT DATE =	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

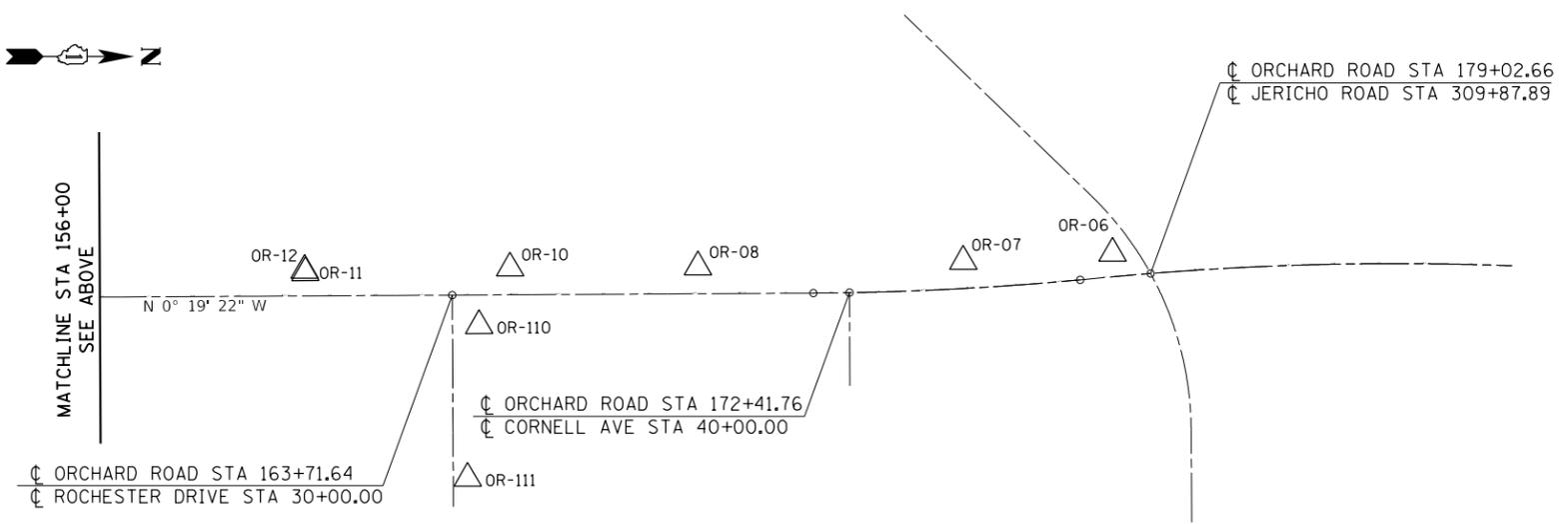
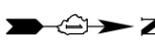
**KDOT 2018 HSIP: FABYAN PARKWAY AT IL ROUTE 31
 TYPICAL SECTIONS**

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

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 8
			CONTRACT NO. 61G91	
ILLINOIS FED. AID PROJECT				



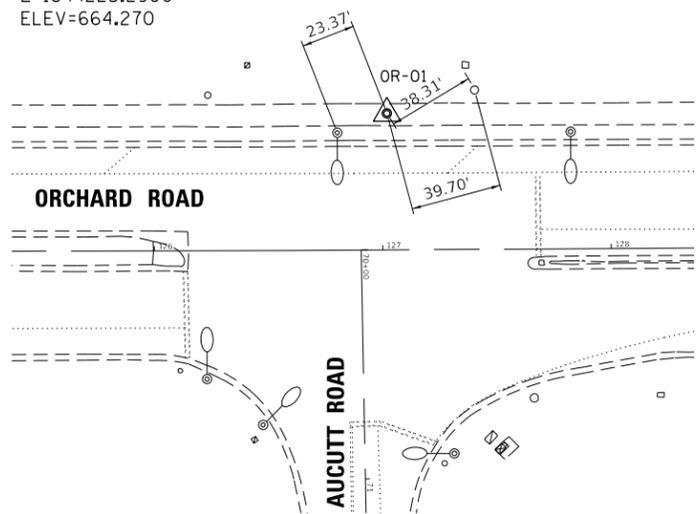
MATCHLINE STA 156+00
SEE BELOW



EXIST. CURVE ORCHARD_4	EXIST. CURVE ORCHARD_3
PI STA. = 109+64.07	PI STA. = 106+47.38
$\Delta = 2^\circ 42' 52''$ (RT)	$\Delta = 2^\circ 42' 52''$ (LT)
D = 0° 51' 26"	D = 0° 51' 26"
R = 6,684.64'	R = 6,684.64'
T = 158.37'	T = 158.37'
L = 316.69'	L = 316.69'
E = 1.88'	E = 1.88'
e = _____	e = _____
T.R. = _____	T.R. = _____
S.E. RUN = _____	S.E. RUN = _____
P.C. STA. = 108+05.70	P.C. STA. = 104+89.01
P.T. STA. = 111+22.39	P.T. STA. = 108+05.70

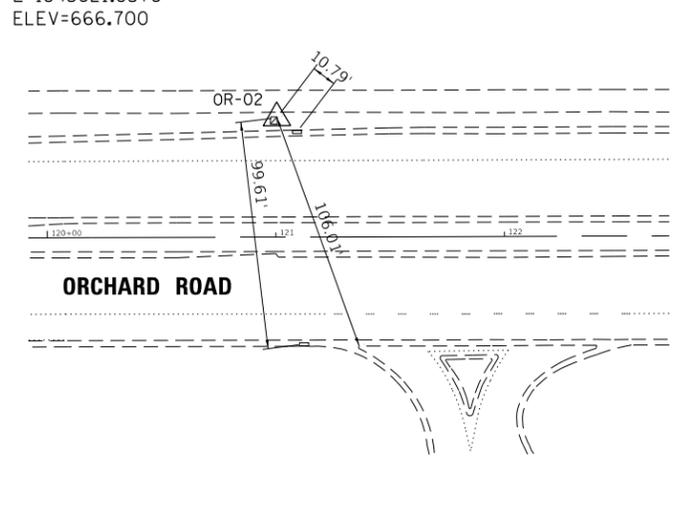
CONTROL POINT #OR-01

CUT X ON RIM OF STORM MANHOLE
N=972703.6110
E=1844223.2900
ELEV=664.270



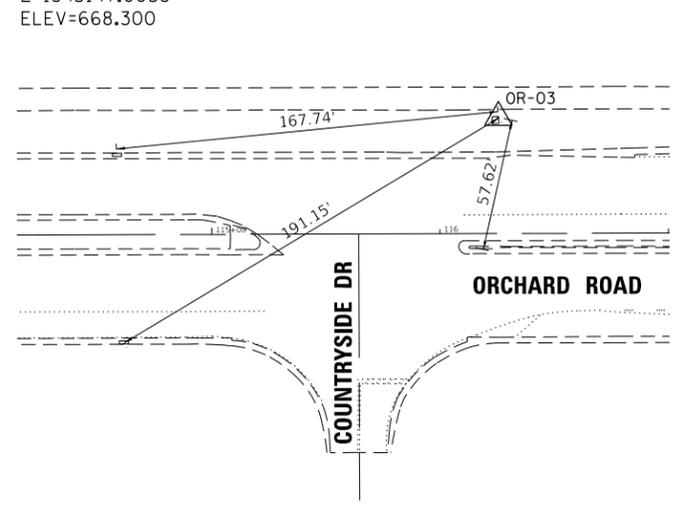
CONTROL POINT #OR-02

CUT X ON NW CORNER OF HANDHOLE
N=972713.0323
E=1843621.8576
ELEV=666.700



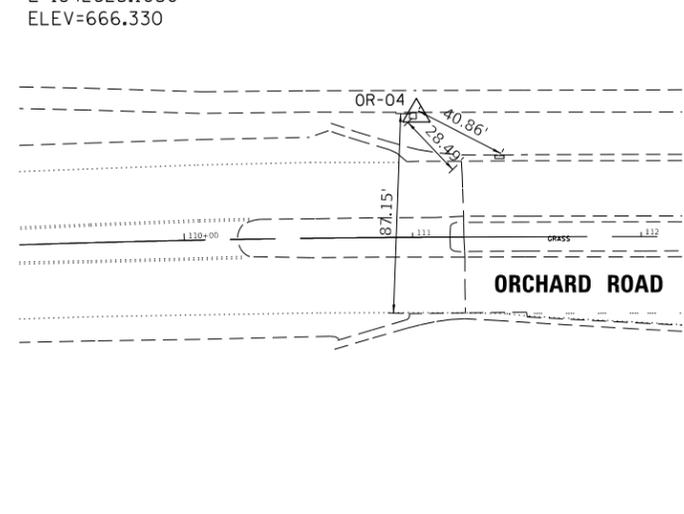
CONTROL POINT #OR-03

CUT X ON NW CORNER OF HANDHOLE
N=972715.7852
E=1843147.0038
ELEV=668.300



CONTROL POINT #OR-04

CUT X ON NW CORNER OF HANDHOLE
N=972714.3585
E=1842623.1050
ELEV=666.330



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USER: JSM/ah



USER NAME =	DESIGNED - JSM/AH	REVISED -
PLOT SCALE =	DRAWN - JSM/AH	REVISED -
PLOT DATE =	CHECKED - JAC/MET	REVISED -
	DATE - 01/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

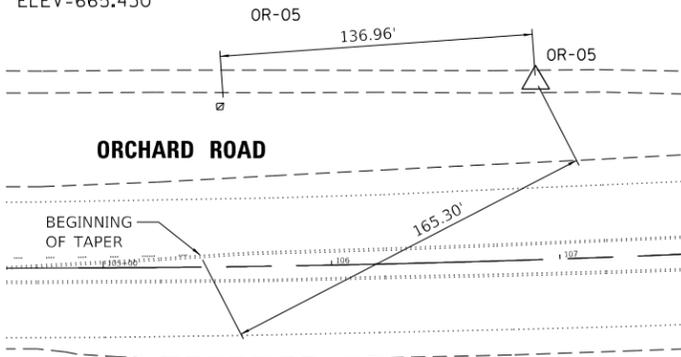
KDOT 2018 HSIP: ORCHARD ROAD, US 30 TO JERICO ROAD
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1" = 200' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 186+95

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 9
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

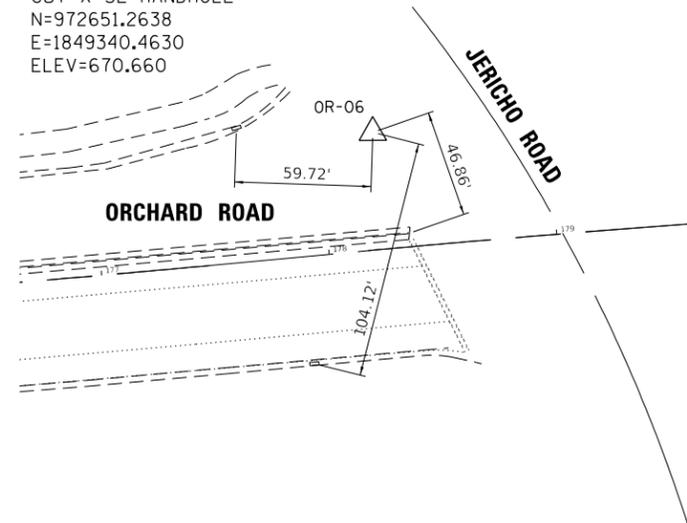
CONTROL POINT OR-05

CUT X S RIM STORM MANHOLE
 N=972703.2955
 E=1842211.0175
 ELEV=665.430



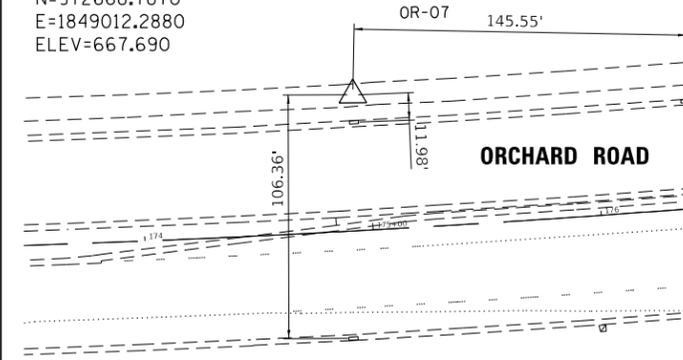
CONTROL POINT OR-06

CUT X SE HANDHOLE
 N=972651.2638
 E=1849340.4630
 ELEV=670.660



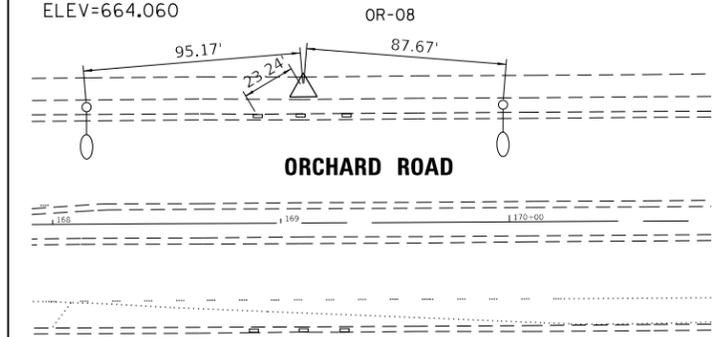
CONTROL POINT OR-07

CUT X N RIM STM MH
 N=972668.7870
 E=1849012.2880
 ELEV=667.690



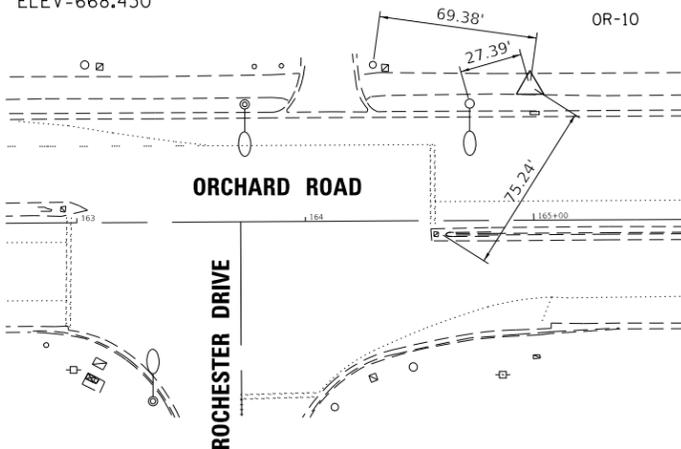
CONTROL POINT OR-08

CUT X W RIM STM MH
 N=972681.0140
 E=1848431.1630
 ELEV=664.060



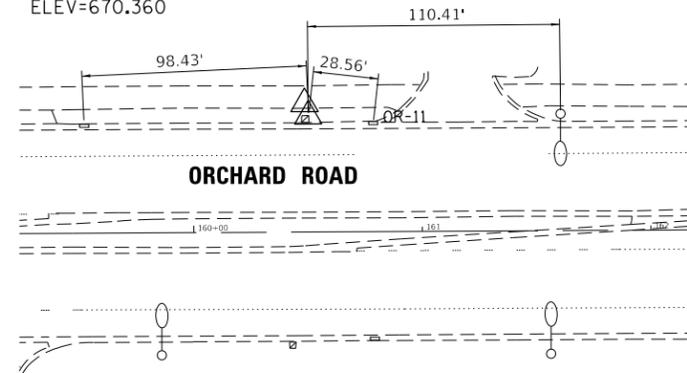
CONTROL POINT OR-10

CUT X ON RIM OF STORM MANHOLE
 N=972683.3810
 E=1848019.7000
 ELEV=668.430



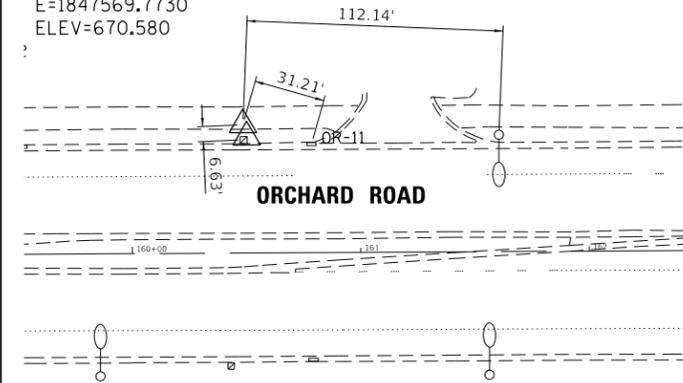
CONTROL POINT OR-11

CUT X NW HH
 N=972693.7400
 E=1847571.4250
 ELEV=670.360



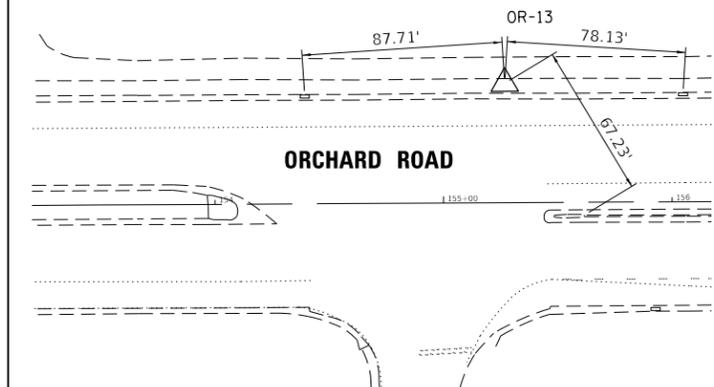
CONTROL POINT OR-12

CP MAG NAIL
 N=972688.3810
 E=1847569.7730
 ELEV=670.580



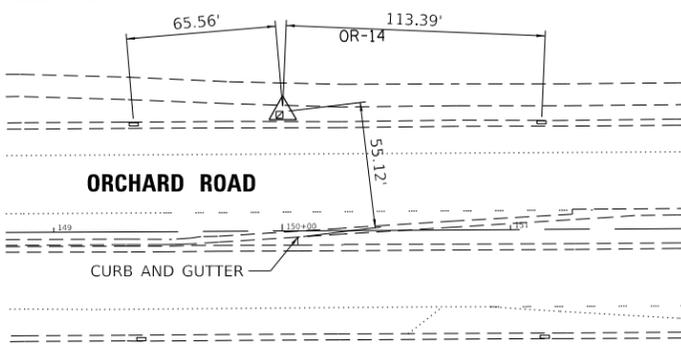
CONTROL POINT OR-13

CUT X NW HH
 N=972695.1880
 E=1847048.1520
 ELEV=668.010



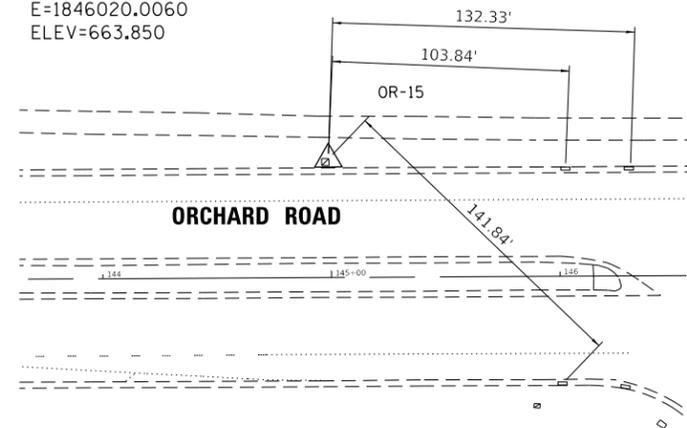
CONTROL POINT OR-14

CUT X NW HH
 N=972698.2270
 E=1846521.6135
 ELEV=665.760



CONTROL POINT OR-15

CUT X NW HH
 N=972701.4230
 E=1846020.0060
 ELEV=663.850



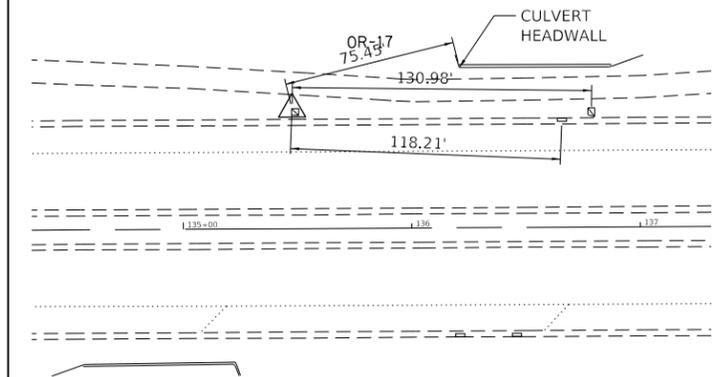
CONTROL POINT OR-16

CUT X NW HH
 N=972703.5710
 E=1845621.2050
 ELEV=664.820



CONTROL POINT OR-17

CUT X SW HH
 N=972706.3220
 E=1845069.0120
 ELEV=663.820



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USER NAME =	DESIGNED - JSM/AH	REVISED -
PLOT SCALE =	DRAWN - JSM/AH	REVISED -
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	DATE - 01/13/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

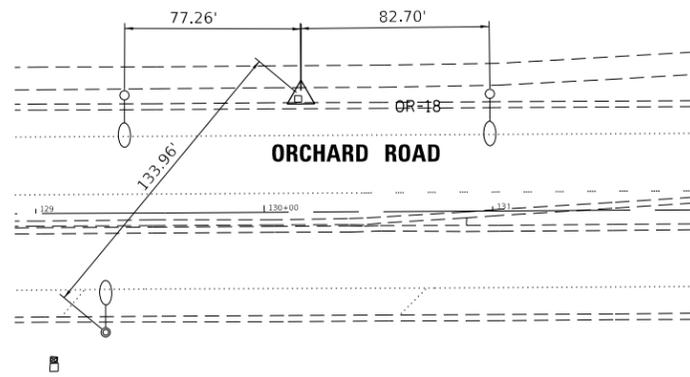
KDOT 2018 HSIP: ORCHARD ROAD, US 30 TO JERICHO ROAD
 ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1" = 200' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 336	18-00493-00-5P	KANE	46	10
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

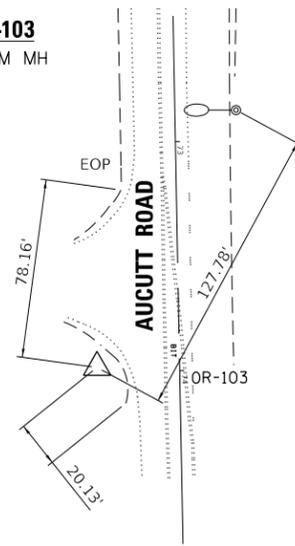
CONTROL POINT OR-18

CUT X NW HH
 N=972710.7957
 E=1844537.4931
 ELEV=665.290



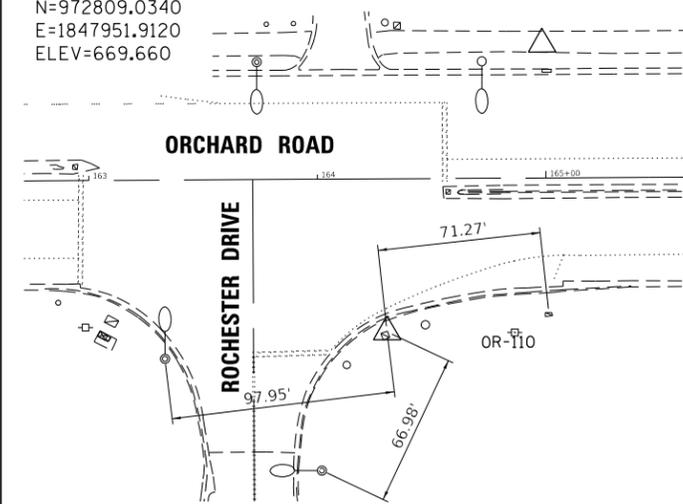
CONTROL POINT OR-103

CUT X SW CONC STM MH
 N=973161.7880
 E=1844183.3180
 ELEV=658.690



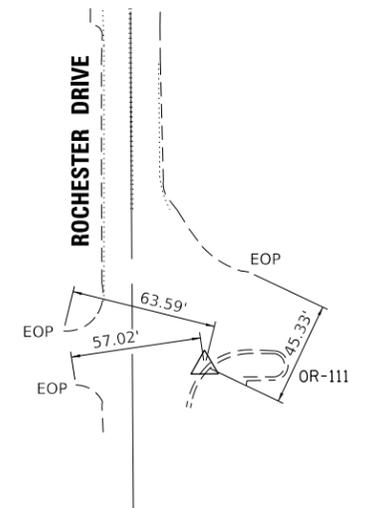
CONTROL POINT OR-110

CUT X NW HH
 N=972809.0340
 E=1847951.9120
 ELEV=669.660



CONTROL POINT OR-111

CUT X TOP CURB
 N=973145.3080
 E=1847926.8500
 ELEV=670.940



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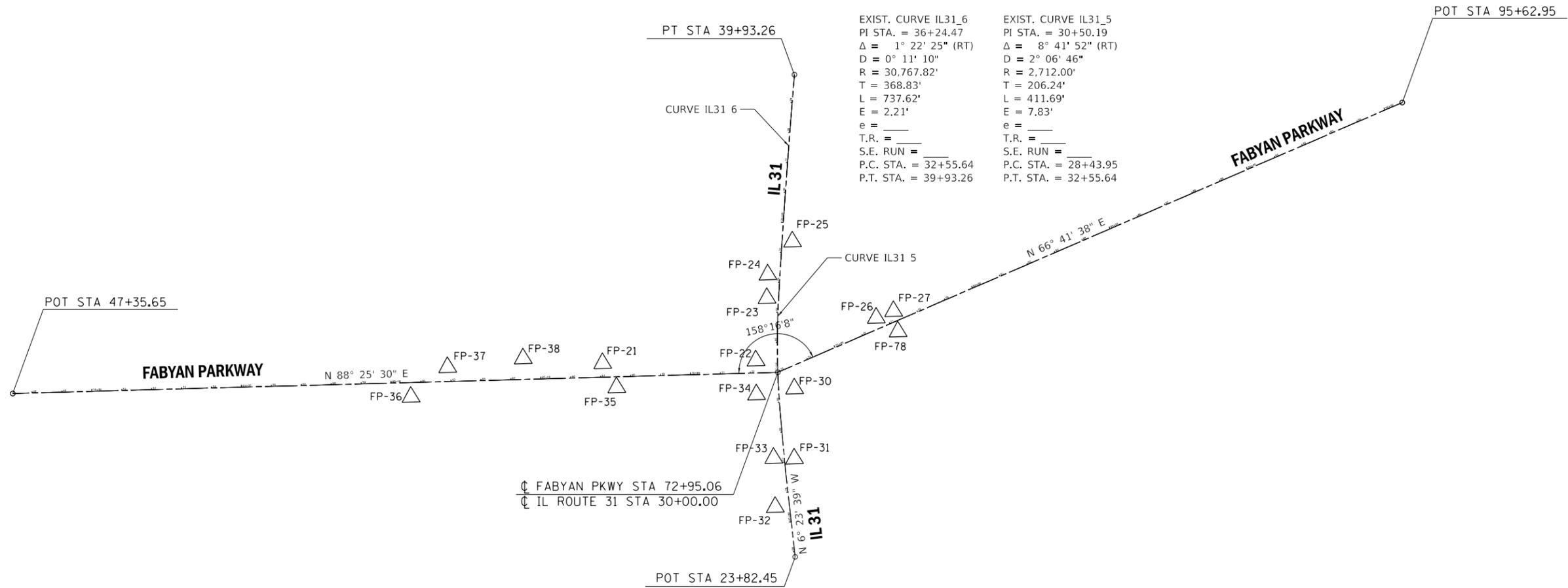
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PLOT SCALE =	CHECKED - JAC/MET	REVISED -
PLOT DATE =	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**KDOT 2018 HSIP: ORCHARD ROAD, US 30 TO JERICHO ROAD
 ALIGNMENT, TIES, AND BENCHMARKS**

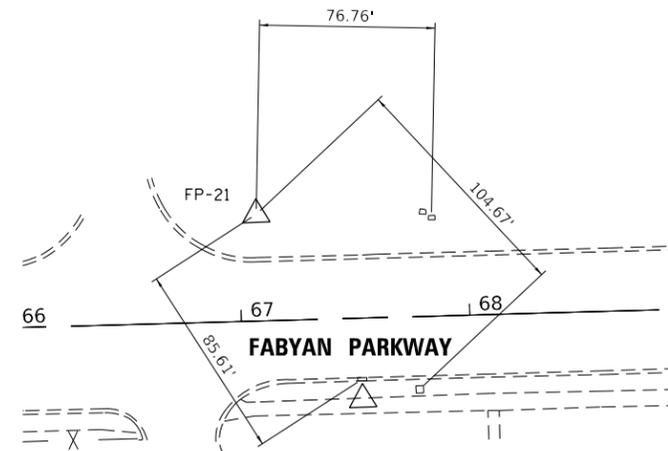
SCALE: 1" = 200' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 11
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	



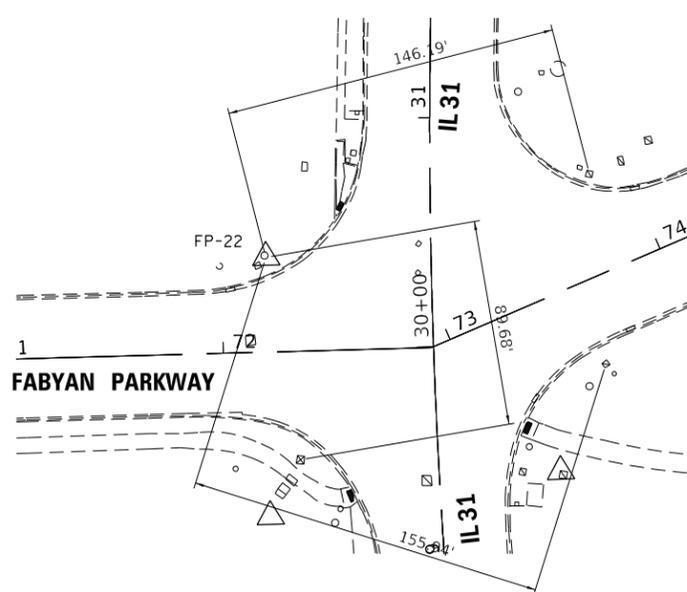
CONTROL POINT FP-21

CUT X NW HH
 N=988992.6390
 E=1893135.7610
 ELEV=711.770



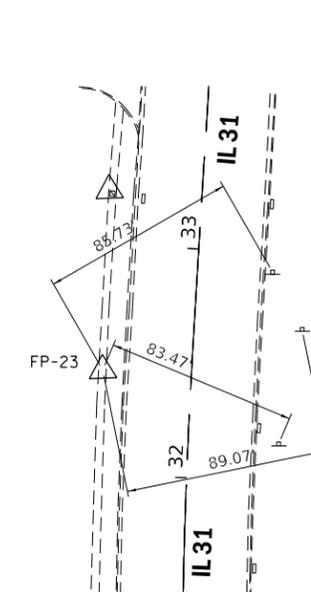
CONTROL POINT FP-22

CUT X S BASE MAST ARM
 N=989504.5675
 E=1893144.6769
 ELEV=703.510



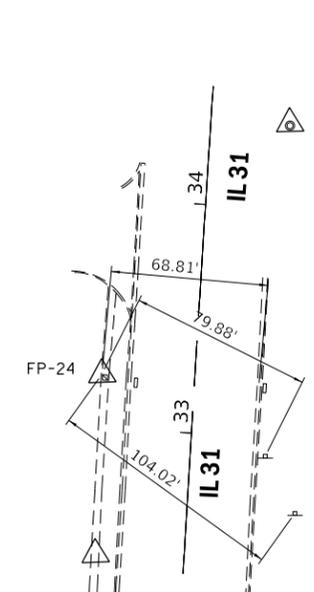
CONTROL POINT FP-23

CUT X WALK
 N=989541.5995
 E=1893352.5955
 ELEV=701.790



CONTROL POINT FP-24

CUT X NW HH
 N=989544.4910
 E=1893431.1825
 ELEV=701.210



MODEL: Default
 FILE NAME: Z:\18-00493-00-5P\18-00493-00-5P.dwg
 PLOT DATE: 01/13/2021



USER NAME =	DESIGNED - JSM/AH	REVISED -
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PLOT DATE =	DATE - 01/13/2021	REVISED -

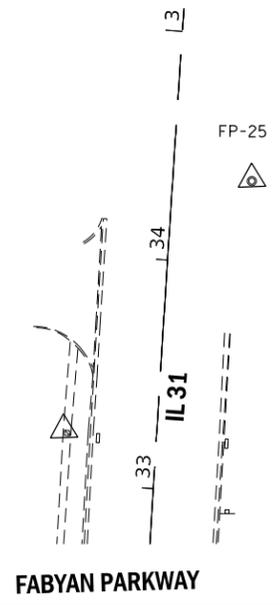
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

KDOT 2018 HSIP: FABYAN PARKWAY AT IL ROUTE 31
 ALIGNMENT, TIES, AND BENCHMARKS

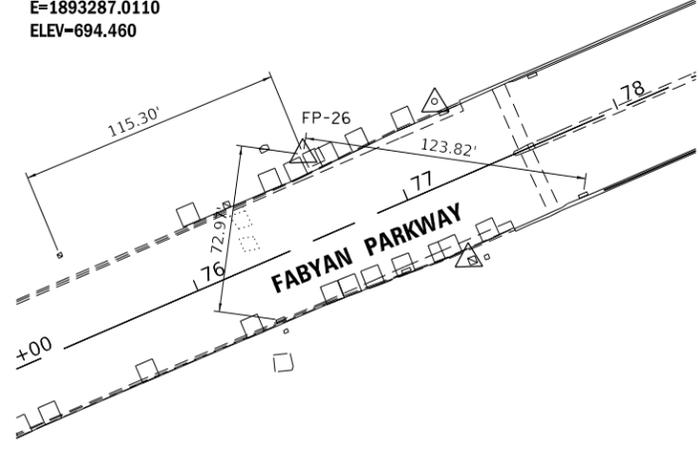
SCALE: 1" = 200' SHEET 1 OF 2 SHEETS STA. 47+35 TO STA. 95+63

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 12
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

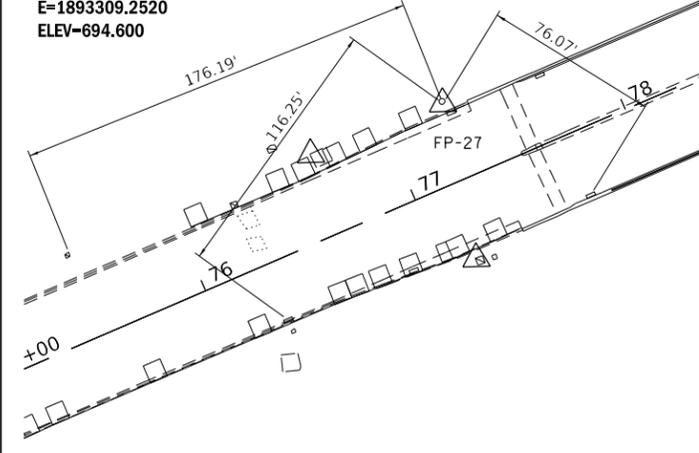
CONTROL POINT FP-25
 CUT X N RIM STM MH
 N=989626.7492
 E=1893540.7363
 ELEV=699.650



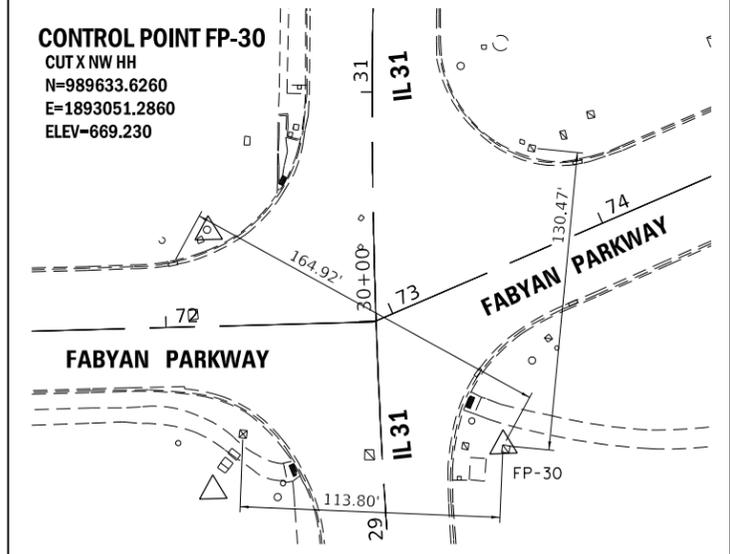
CONTROL POINT FP-26
 CUT X NW 7'X7' CONC
 N=989906.7590
 E=1893287.0110
 ELEV=694.460



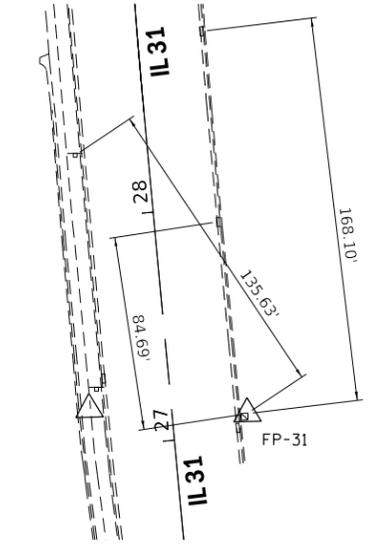
CONTROL POINT FP-27
 CUT X S BASE MAST ARM
 N=989964.5600
 E=1893309.2520
 ELEV=694.600



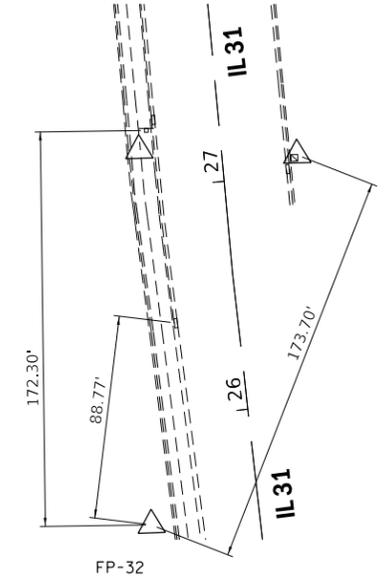
CONTROL POINT FP-30
 CUT X NW HH
 N=989633.6260
 E=1893051.2860
 ELEV=669.230



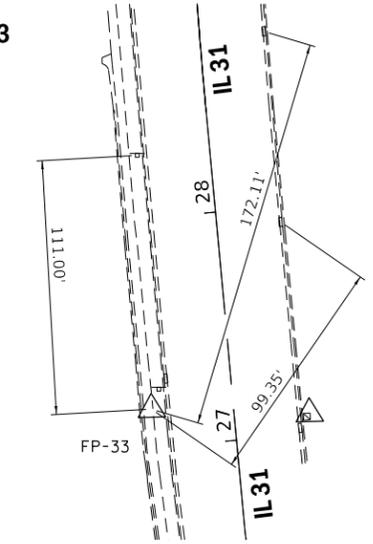
CONTROL POINT FP-31
 CUT X NE HH
 N=989633.1440
 E=1892818.2370
 ELEV=700.940



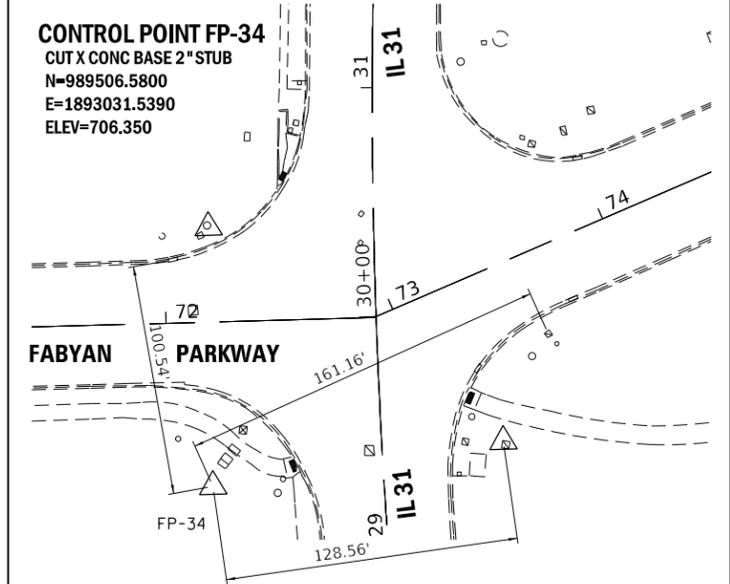
CONTROL POINT FP-32
 CUT X N RIM STM MH
 N=989569.3910
 E=1892656.6500
 ELEV=706.080



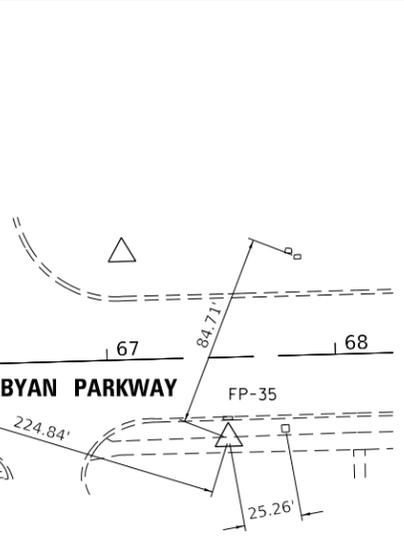
CONTROL POINT FP-33
 CUT X N RIM STM MH
 N=989563.9700
 E=1892820.1750
 ELEV=702.430



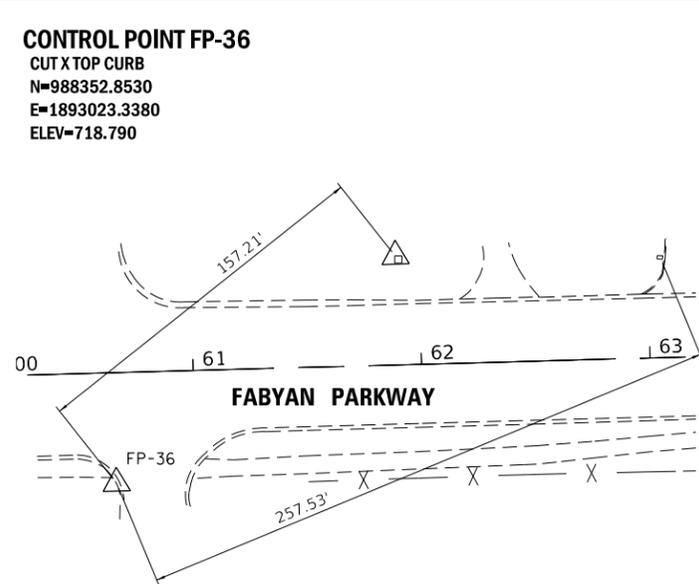
CONTROL POINT FP-34
 CUT X CONC BASE 2" STUB
 N=989506.5800
 E=1893031.5390
 ELEV=706.350



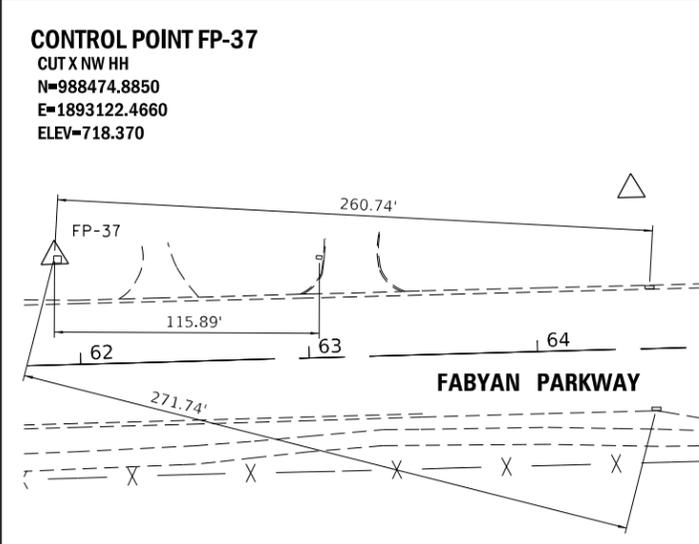
CONTROL POINT FP-35
 CUT X N RIM STM MH
 N=989039.3880
 E=1893055.0730
 ELEV=711.260



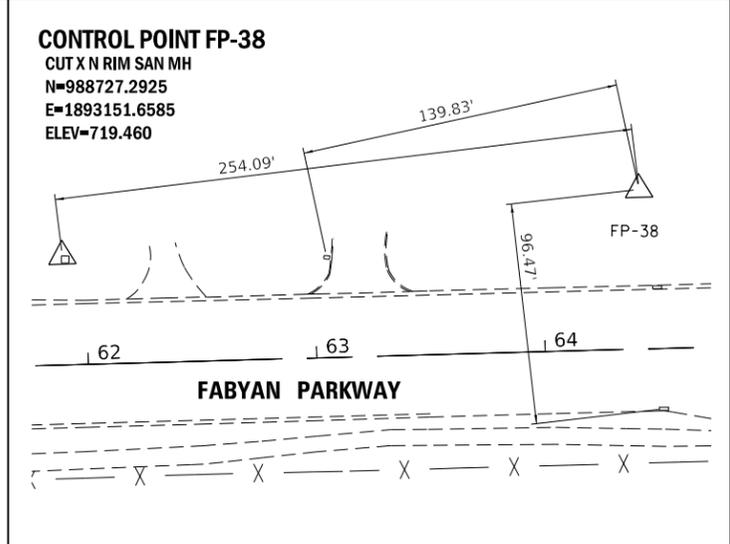
CONTROL POINT FP-36
 CUT X TOP CURB
 N=988352.8530
 E=1893023.3380
 ELEV=718.790



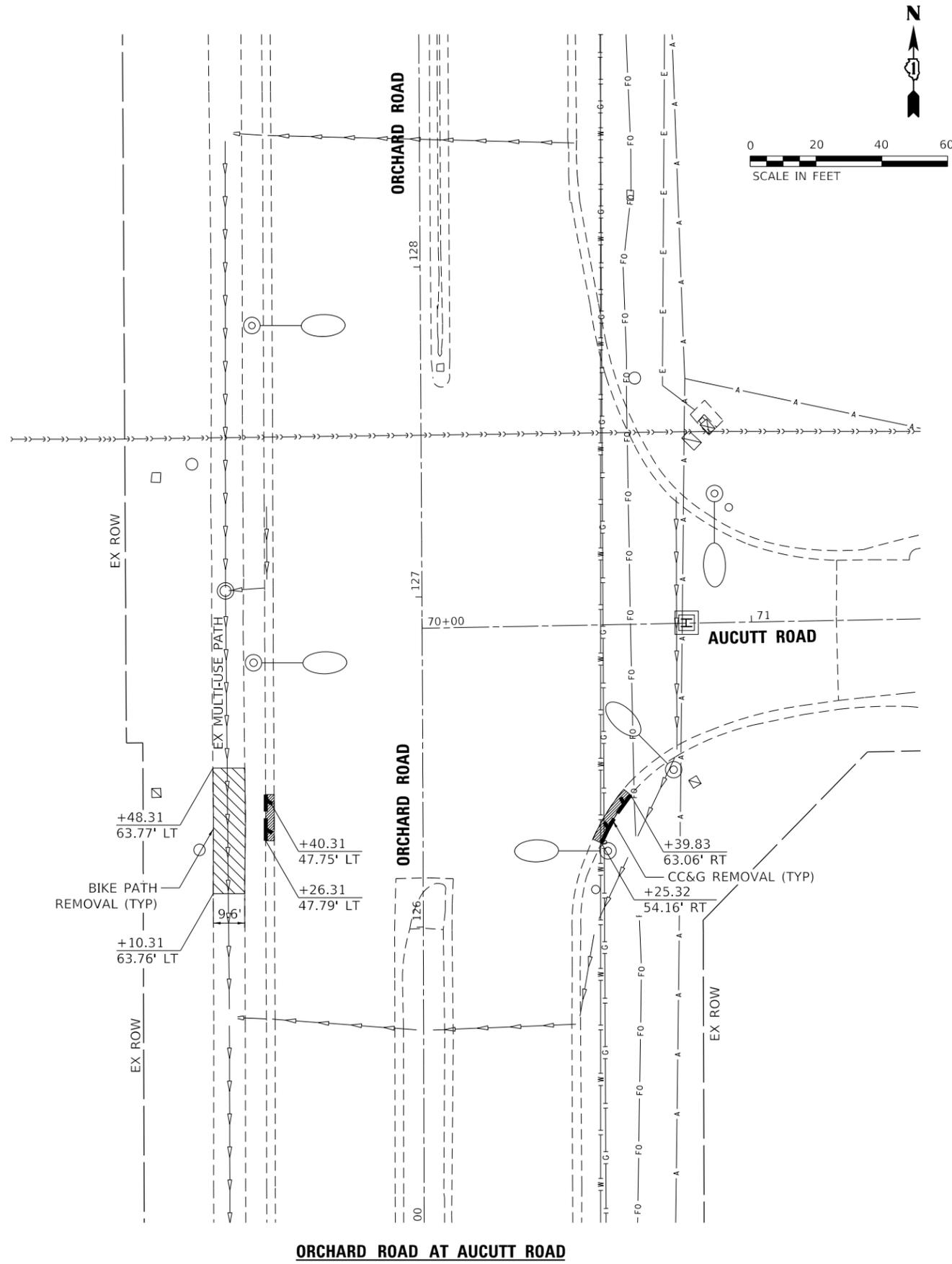
CONTROL POINT FP-37
 CUT X NW HH
 N=988474.8850
 E=1893122.4660
 ELEV=718.370



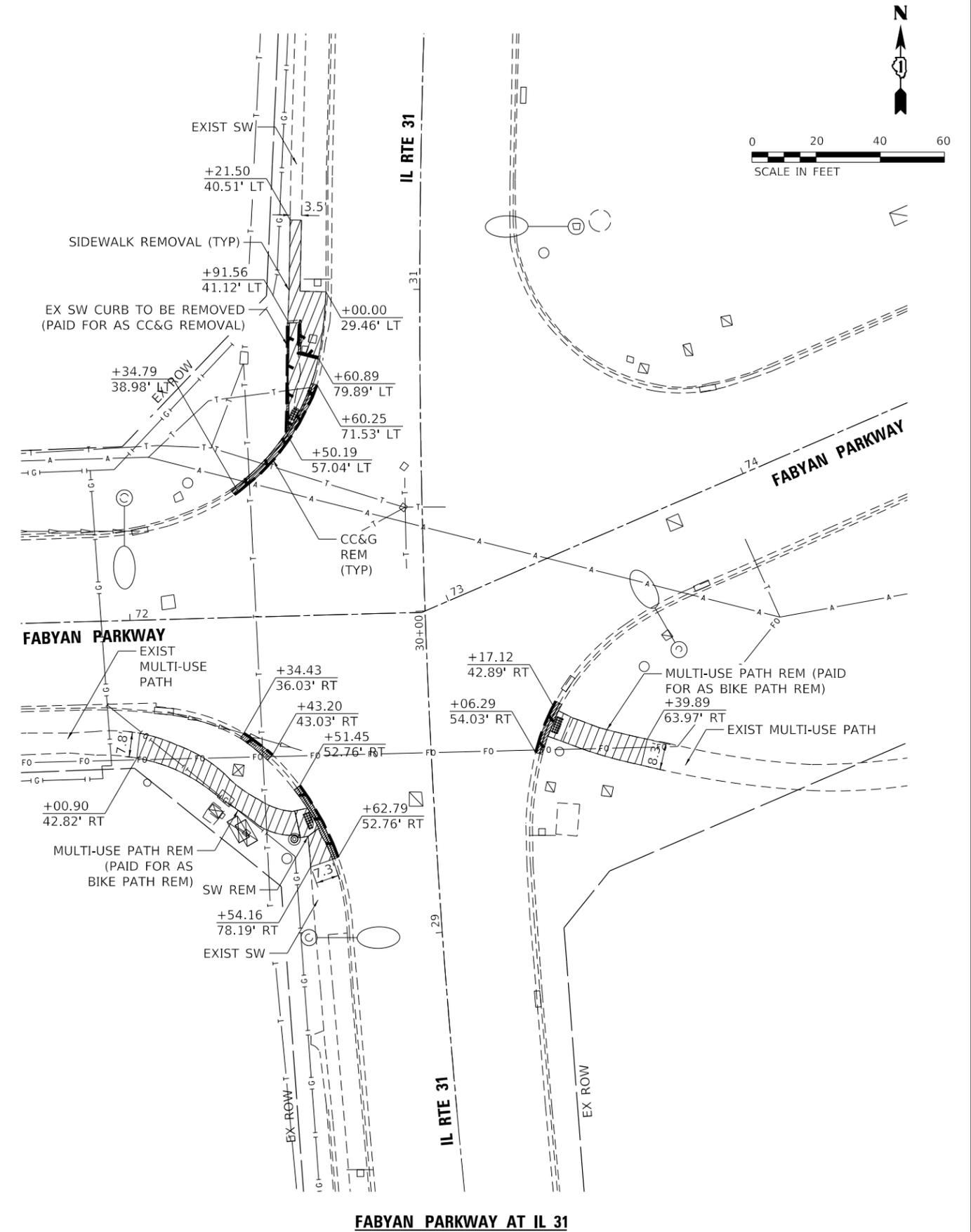
CONTROL POINT FP-38
 CUT X N RIM SAN MH
 N=988727.2925
 E=1893151.6585
 ELEV=719.460



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ORCHARD ROAD AT AUCUTT ROAD



FABYAN PARKWAY AT IL 31

MODEL: Default
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USER NAME =	DESIGNED - JSM/AH	REVISED -
	DRAWN - JSM/AH	REVISED -
PLOT SCALE =	CHECKED - JAC/MET	REVISED -
PLOT DATE =	DATE - 01/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

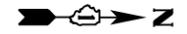
KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
REMOVAL DETAILS

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

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 14
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	

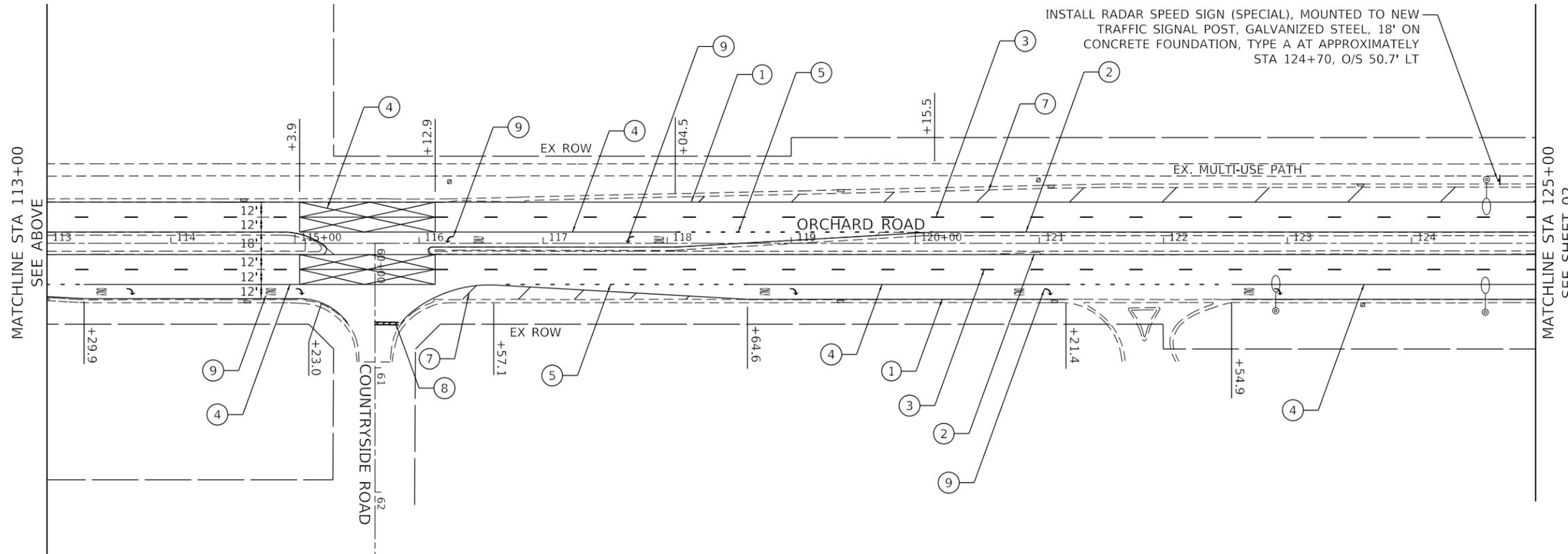
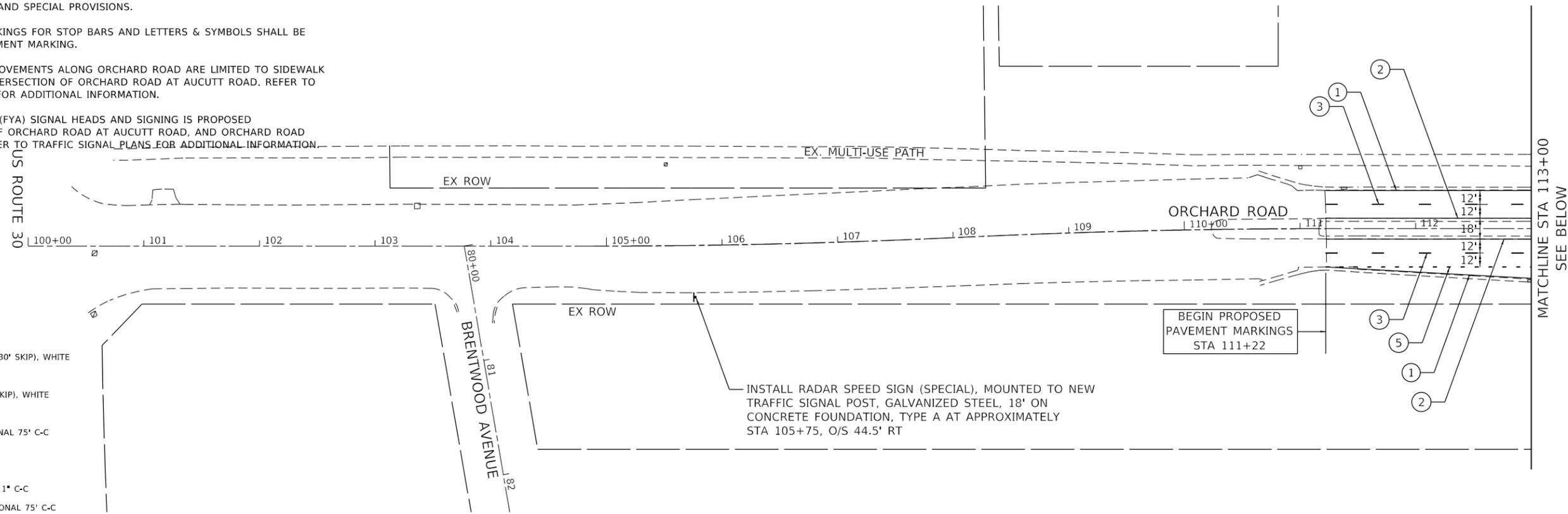
NOTES:

- PAVEMENT MARKINGS SHALL BE PERFORMED PLASTIC PAVEMENT MARKING TYPE D AND SHALL BE GROOVED INTO THE EXISTING PAVEMENT UNLESS OTHERWISE NOTED (SEE NOTE 2). REFER TO SPECIFICATIONS AND SPECIAL PROVISIONS.
- PROPOSED PAVEMENT MARKINGS FOR STOP BARS AND LETTERS & SYMBOLS SHALL BE MODIFIED URETHANE PAVEMENT MARKING.
- PROPOSED PAVEMENT IMPROVEMENTS ALONG ORCHARD ROAD ARE LIMITED TO SIDEWALK IMPROVEMENTS AT THE INTERSECTION OF ORCHARD ROAD AT AUCUTT ROAD. REFER TO SIDEWALK DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- FLASHING YELLOW ARROW (FYA) SIGNAL HEADS AND SIGNING IS PROPOSED FOR THE INTERSECTIONS OF ORCHARD ROAD AT AUCUTT ROAD, AND ORCHARD ROAD AT ROCHESTER DRIVE. REFER TO TRAFFIC SIGNAL PLANS FOR ADDITIONAL INFORMATION.



LEGEND

- ① LINE 4" SOLID, WHITE
- ② LINE 4" SOLID, YELLOW
- ③ LINE 4" SKIP-DASH (10' DASH, 30' SKIP), WHITE
- ④ LINE 6" SOLID, WHITE
- ⑤ LINE 6" DOTTED (2' DASH, 6' SKIP), WHITE
- ⑥ LINE 12" SOLID, WHITE
- ⑦ LINE 12" SOLID, WHITE, DIAGONAL 75' C-C
- ⑧ LINE 24" SOLID, WHITE
- ⑨ LETTERS AND SYMBOLS, WHITE
- ⑩ LINE 4", SOLID, YELLOW, 2 @ 11" C-C
- ⑪ LINE 12" SOLID, YELLOW, DIAGONAL 75' C-C



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	DRAWN - JSM/AH	REVISED -
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PLOT DATE =	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

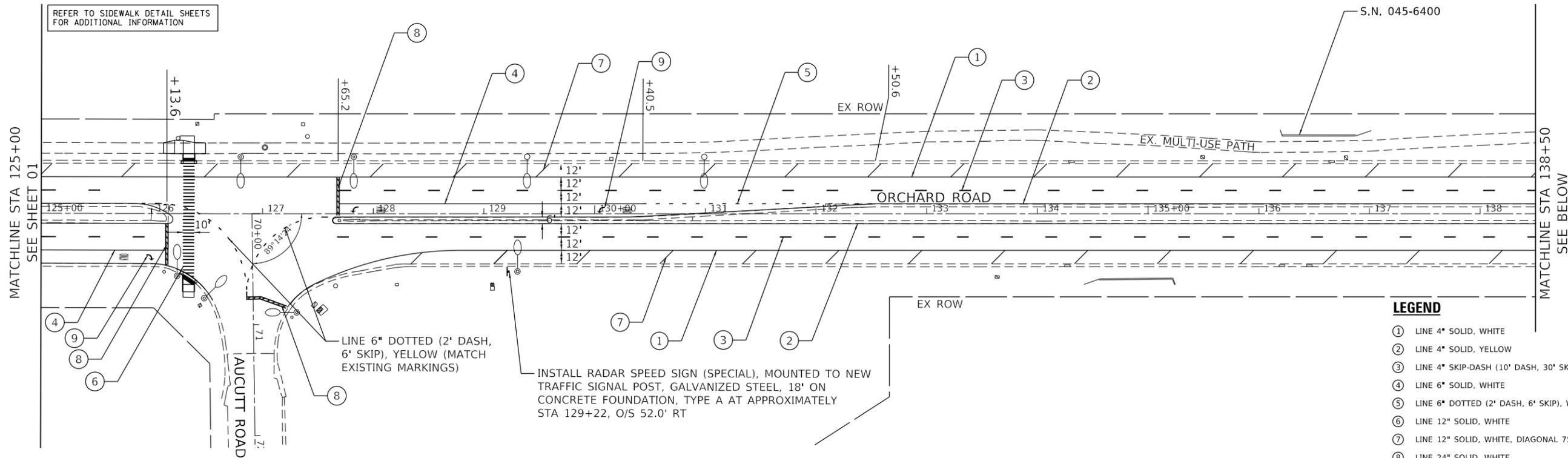
**KDOT 2018 HSIP: ORCHARD ROAD, US 30 TO JERICO ROAD
PAVEMENT MARKING AND SIGNING PLANS**

SCALE: 1" = 50' SHEET 1 OF 3 SHEETS STA. 100+00 TO STA. 125+00

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 15
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

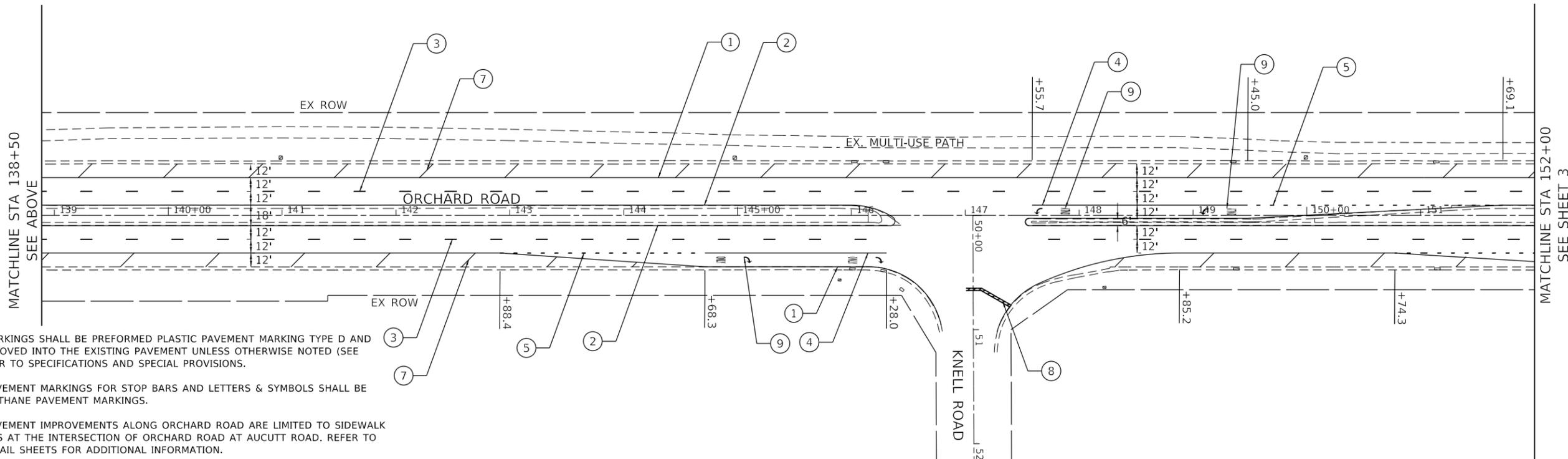


REFER TO SIDEWALK DETAIL SHEETS FOR ADDITIONAL INFORMATION



LEGEND

- ① LINE 4" SOLID, WHITE
- ② LINE 4" SOLID, YELLOW
- ③ LINE 4" SKIP-DASH (10' DASH, 30' SKIP), WHITE
- ④ LINE 6" SOLID, WHITE
- ⑤ LINE 6" DOTTED (2' DASH, 6' SKIP), WHITE
- ⑥ LINE 12" SOLID, WHITE
- ⑦ LINE 12" SOLID, WHITE, DIAGONAL 75° C-C
- ⑧ LINE 24" SOLID, WHITE
- ⑨ LETTERS AND SYMBOLS, WHITE
- ⑩ LINE 4", SOLID, YELLOW, 2 @ 11" C-C
- ⑪ LINE 12" SOLID, YELLOW, DIAGONAL 75° C-C



NOTES:

1. PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING TYPE D AND SHALL BE GROOVED INTO THE EXISTING PAVEMENT UNLESS OTHERWISE NOTED (SEE NOTE 2). REFER TO SPECIFICATIONS AND SPECIAL PROVISIONS.
2. PROPOSED PAVEMENT MARKINGS FOR STOP BARS AND LETTERS & SYMBOLS SHALL BE MODIFIED URETHANE PAVEMENT MARKINGS.
3. PROPOSED PAVEMENT IMPROVEMENTS ALONG ORCHARD ROAD ARE LIMITED TO SIDEWALK IMPROVEMENTS AT THE INTERSECTION OF ORCHARD ROAD AT AUCUTT ROAD. REFER TO SIDEWALK DETAIL SHEETS FOR ADDITIONAL INFORMATION.
4. FLASHING YELLOW ARROW (FYA) SIGNAL HEADS AND SIGNING IS PROPOSED FOR THE INTERSECTIONS OF ORCHARD ROAD AT AUCUTT ROAD, AND ORCHARD ROAD AT ROCHESTER DRIVE. REFER TO TRAFFIC SIGNAL PLANS FOR ADDITIONAL INFORMATION.

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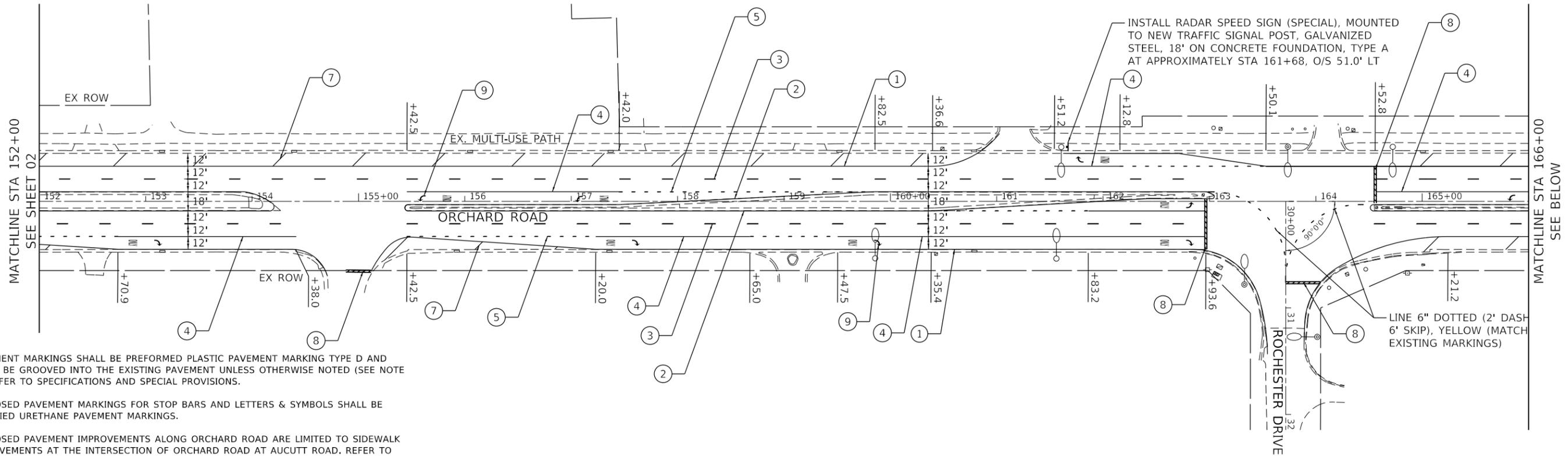
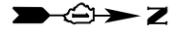
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PLOT DATE = 1/11/2021	CHECKED - JAC/MET	REVISED -
	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KDOT 2018 HSIP: ORCHARD ROAD, US 30 TO JERICHO ROAD
PAVEMENT MARKING AND SIGNING PLANS**

SCALE: 1" = 50' SHEET 2 OF 3 SHEETS STA. 125+00 TO STA. 152+00

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 16
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

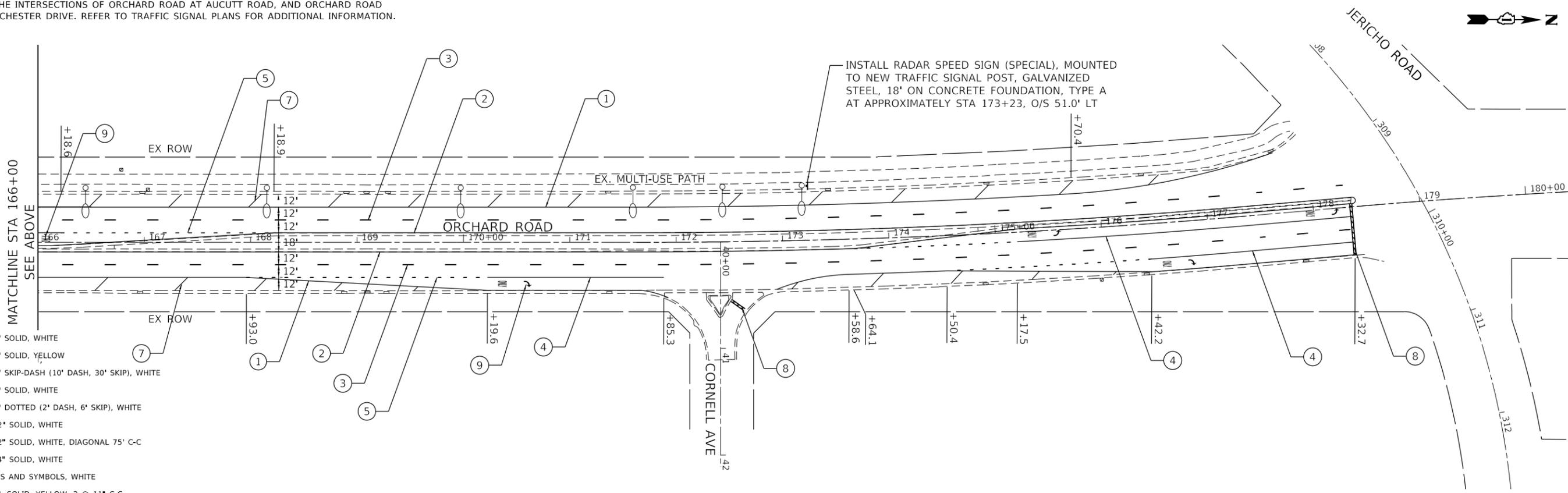


NOTES:

- PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING TYPE D AND SHALL BE GROOVED INTO THE EXISTING PAVEMENT UNLESS OTHERWISE NOTED (SEE NOTE 2). REFER TO SPECIFICATIONS AND SPECIAL PROVISIONS.
- PROPOSED PAVEMENT MARKINGS FOR STOP BARS AND LETTERS & SYMBOLS SHALL BE MODIFIED URETHANE PAVEMENT MARKINGS.
- PROPOSED PAVEMENT IMPROVEMENTS ALONG ORCHARD ROAD ARE LIMITED TO SIDEWALK IMPROVEMENTS AT THE INTERSECTIONS OF ORCHARD ROAD AT AUCUTT ROAD. REFER TO SIDEWALK DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- FLASHING YELLOW ARROW (FYA) SIGNAL HEADS AND SIGNING IS PROPOSED FOR THE INTERSECTIONS OF ORCHARD ROAD AT AUCUTT ROAD, AND ORCHARD ROAD AT ROCHESTER DRIVE. REFER TO TRAFFIC SIGNAL PLANS FOR ADDITIONAL INFORMATION.

INSTALL RADAR SPEED SIGN (SPECIAL), MOUNTED TO NEW TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18' ON CONCRETE FOUNDATION, TYPE A AT APPROXIMATELY STA 161+68, O/S 51.0' LT

LINE 6" DOTTED (2' DASH 6' SKIP), YELLOW (MATCH EXISTING MARKINGS)



INSTALL RADAR SPEED SIGN (SPECIAL), MOUNTED TO NEW TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18' ON CONCRETE FOUNDATION, TYPE A AT APPROXIMATELY STA 173+23, O/S 51.0' LT

LEGEND

- ① LINE 4" SOLID, WHITE
- ② LINE 4" SOLID, YELLOW
- ③ LINE 4" SKIP-DASH (10' DASH, 30' SKIP), WHITE
- ④ LINE 6" SOLID, WHITE
- ⑤ LINE 6" DOTTED (2' DASH, 6' SKIP), WHITE
- ⑥ LINE 12" SOLID, WHITE
- ⑦ LINE 12" SOLID, WHITE, DIAGONAL 75° C-C
- ⑧ LINE 24" SOLID, WHITE
- ⑨ LETTERS AND SYMBOLS, WHITE
- ⑩ LINE 4", SOLID, YELLOW, 2 @ 11" C-C
- ⑪ LINE 12" SOLID, YELLOW, DIAGONAL 75° C-C

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PLOT DATE	= 1/11/2021

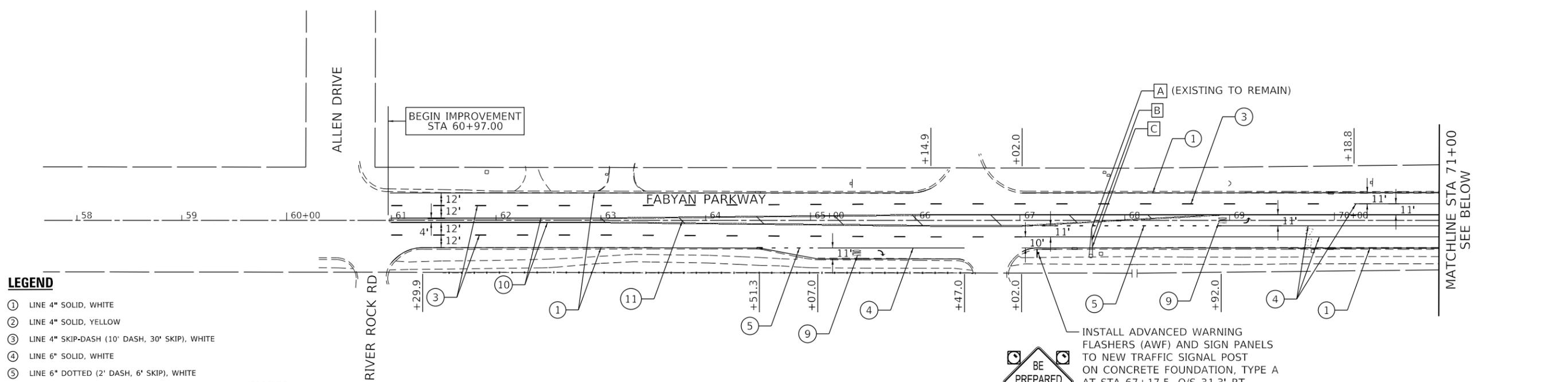
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DRAWN	- JSM/AH	REVISED	-
CHECKED	- JAC/MET	REVISED	-
DATE	- 01/13/2021	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

USDOT 2018 HSIP: ORCHARD ROAD, US 30 TO JERICO ROAD
PAVEMENT MARKING AND SIGNING PLAN

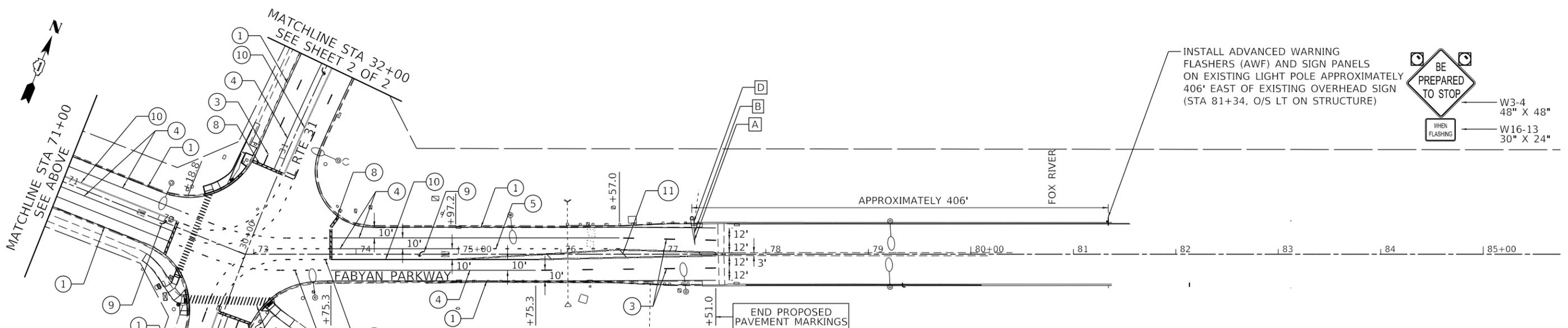
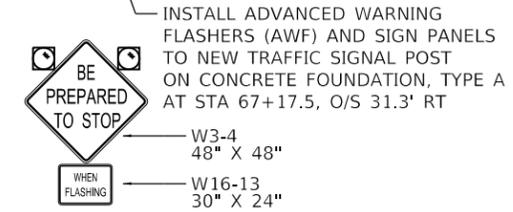
SCALE: 1" = 50' SHEET 3 OF 3 SHEETS STA. 152+00 TO STA. 180+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363/336	18-00493-00-5P	KANE	46	17
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				



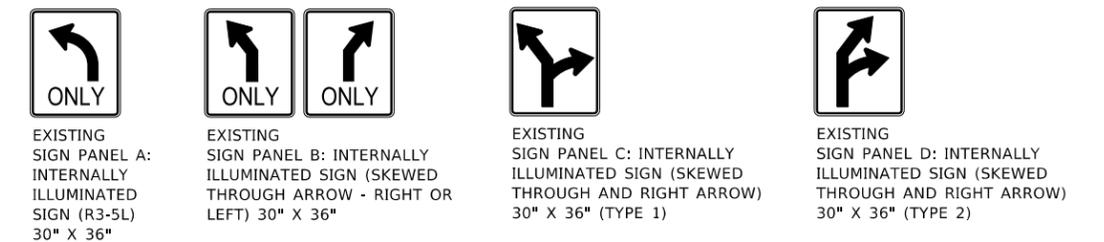
- LEGEND**
- ① LINE 4" SOLID, WHITE
 - ② LINE 4" SOLID, YELLOW
 - ③ LINE 4" SKIP-DASH (10' DASH, 30' SKIP), WHITE
 - ④ LINE 6" SOLID, WHITE
 - ⑤ LINE 6" DOTTED (2' DASH, 6' SKIP), WHITE
 - ⑥ LINE 12" SOLID, WHITE
 - ⑦ LINE 12" SOLID, WHITE, DIAGONAL 75° C-C
 - ⑧ LINE 24" SOLID, WHITE
 - ⑨ LETTERS AND SYMBOLS, WHITE
 - ⑩ LINE 4", SOLID, YELLOW, 2 @ 11" C-C
 - ⑪ LINE 12" SOLID, YELLOW, DIAGONAL 75° C-C

- NOTES:**
- ALL PAVEMENT MARKINGS SHALL BE PREFORMED PLASTIC PAVEMENT MARKING TYPE D AND SHALL BE GROOVED INTO THE EXISTING PAVEMENT UNLESS OTHERWISE NOTED (SEE NOTE 2). REFER TO SPECIFICATIONS AND SPECIAL PROVISIONS.
 - PROPOSED PAVEMENT MARKINGS FOR STOP BARS AND LETTERS & SYMBOLS SHALL BE MODIFIED URETHANE PAVEMENT MARKINGS.



- CONSTRUCTION NOTES:**
- SIGNS A, B, C, D: THE CONTRACTOR SHALL RETROFIT THE EXISTING INTERNALLY ILLUMINATED SIGNS WITH AN LED INTERNALLY ILLUMINATED EQUIVALENT. ALL COSTS ASSOCIATED WITH THE WORK, INCLUDING BUT NOT LIMITED TO REMOVAL, DISPOSAL, MOUNTING HARDWARE, NEW SIGN FACE, AND SYSTEM MAINTENANCE, IS INCLUDED IN THE COST OF THE INTERNALLY ILLUMINATED SIGN. EQUIPMENT VENDOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE NON STANDARD SIGN GRAPHICS FOR KANE COUNTY APPROVAL.
 - SIGNS A, B, C, D: SEE MISCELLANEOUS DETAIL SHEETS FOR ASSEMBLY DETAILS. LEGEND AND BORDER SHALL BE NON REFLECTIVE BLACK (OPAQUE). BACKGROUND SHALL BE REFLECTIVE WHITE (TRANSLUCENT). CONTRACTOR SHALL REFER TO SPECIFICATIONS AND COORDINATE SIGN PANELS WITH KANE COUNTY.

EXISTING ILLUMINATED SIGNS (CONTRACTOR TO COORDINATE WITH KANE COUNTY FOR LED RETROFIT)



MODEL: Default; FILE NAME: Z:\313P-0007-01_KDOT_2018_HSIP\50_Design\CADD\51\Phase_III\80007-2\21\pmm04.dgn



USER NAME =	DESIGNED - JSM/AH	REVISED -
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PLOT DATE =	CHECKED - JAC/MET	REVISED -
	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**KDOT 2018 HSIP: FABYAN PARKWAY AT IL ROUTE 31
PAVEMENT MARKING AND SIGNING PLAN**

SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. 60+97 TO STA. 85+00

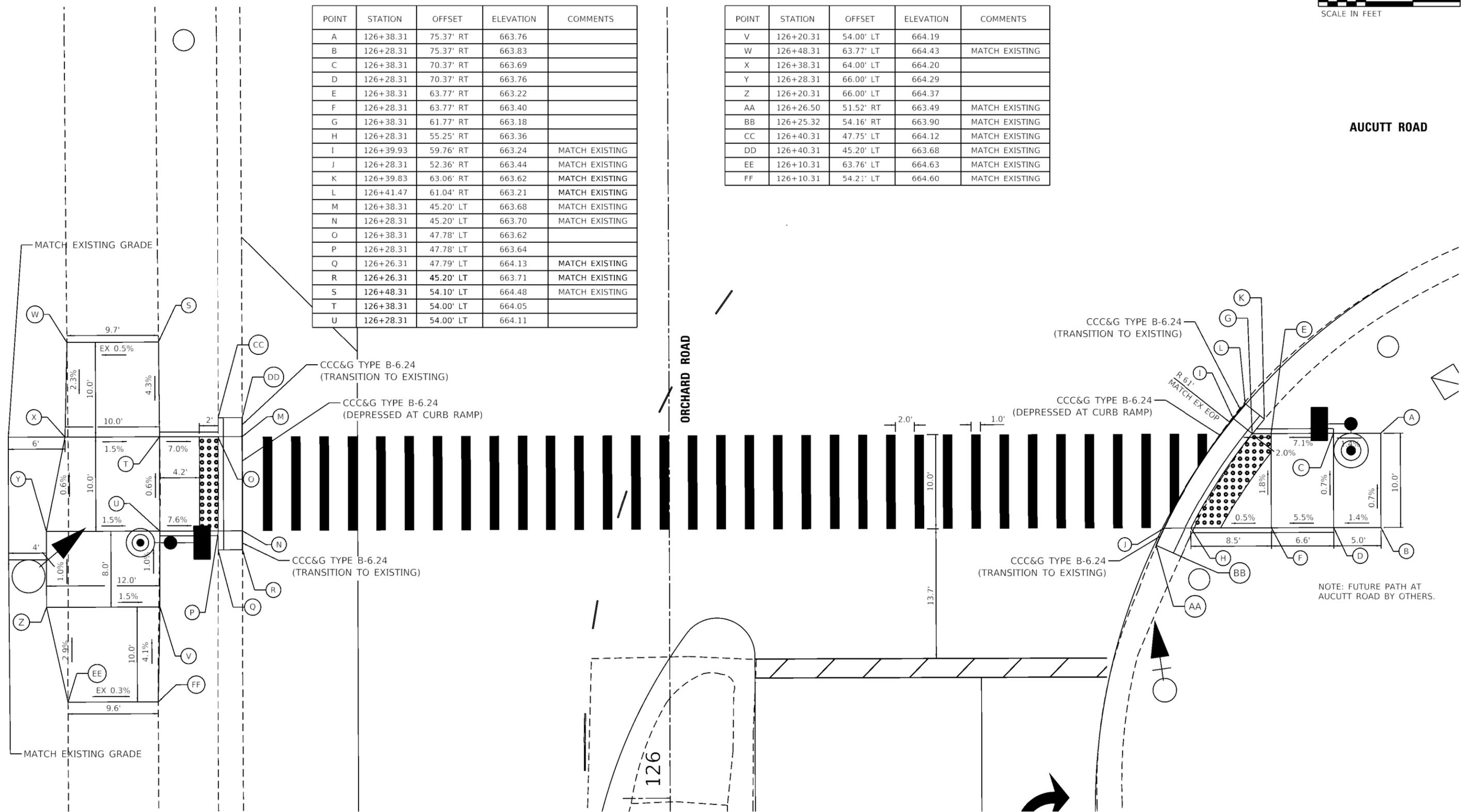
F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 18
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				



AUCUTT ROAD

POINT	STATION	OFFSET	ELEVATION	COMMENTS
A	126+38.31	75.37' RT	663.76	
B	126+28.31	75.37' RT	663.83	
C	126+38.31	70.37' RT	663.69	
D	126+28.31	70.37' RT	663.76	
E	126+38.31	63.77' RT	663.22	
F	126+28.31	63.77' RT	663.40	
G	126+38.31	61.77' RT	663.18	
H	126+28.31	55.25' RT	663.36	
I	126+39.93	59.76' RT	663.24	MATCH EXISTING
J	126+28.31	52.36' RT	663.44	MATCH EXISTING
K	126+39.83	63.06' RT	663.62	MATCH EXISTING
L	126+41.47	61.04' RT	663.21	MATCH EXISTING
M	126+38.31	45.20' LT	663.68	MATCH EXISTING
N	126+28.31	45.20' LT	663.70	MATCH EXISTING
O	126+38.31	47.78' LT	663.62	
P	126+28.31	47.78' LT	663.64	
Q	126+26.31	47.79' LT	664.13	MATCH EXISTING
R	126+26.31	45.20' LT	663.71	MATCH EXISTING
S	126+48.31	54.10' LT	664.48	MATCH EXISTING
T	126+38.31	54.00' LT	664.05	
U	126+28.31	54.00' LT	664.11	

POINT	STATION	OFFSET	ELEVATION	COMMENTS
V	126+20.31	54.00' LT	664.19	
W	126+48.31	63.77' LT	664.43	MATCH EXISTING
X	126+38.31	64.00' LT	664.20	
Y	126+28.31	66.00' LT	664.29	
Z	126+20.31	66.00' LT	664.37	
AA	126+26.50	51.52' RT	663.49	MATCH EXISTING
BB	126+25.32	54.16' RT	663.90	MATCH EXISTING
CC	126+40.31	47.75' LT	664.12	MATCH EXISTING
DD	126+40.31	45.20' LT	663.68	MATCH EXISTING
EE	126+10.31	63.76' LT	664.63	MATCH EXISTING
FF	126+10.31	54.21' LT	664.60	MATCH EXISTING



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

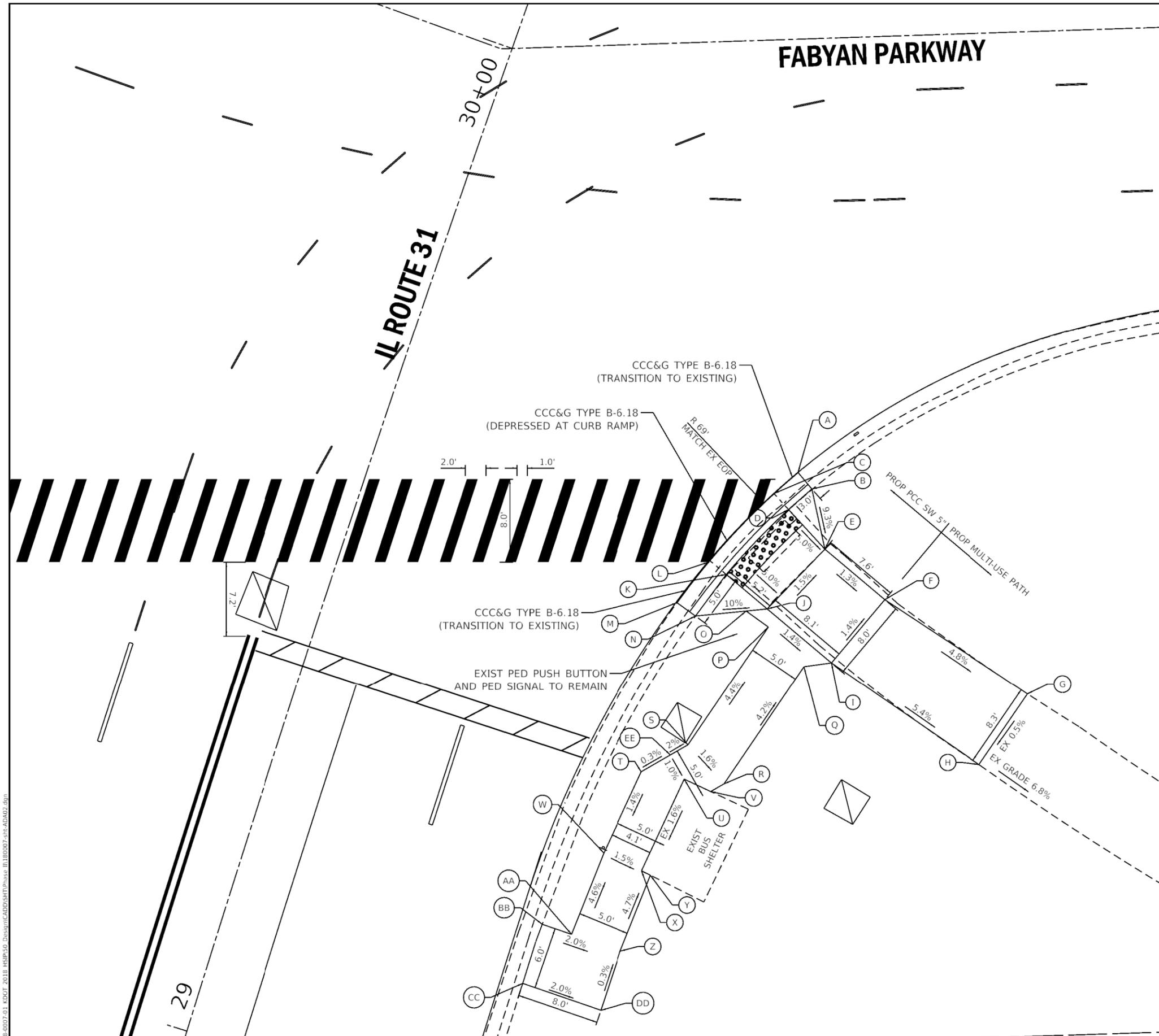
**ADA DETAILS
ORCHARD ROAD AT AUCUTT ROAD**

SCALE: 1" = 5' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 20
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

FABYAN PARKWAY

IL ROUTE 31



POINT	STATION	OFFSET	ELEVATION	COMMENTS
A	29+70.13	39.57' RT	699.84	MATCH EXISTING
B	29+69.03	41.35' RT	700.13	MATCH EXISTING
C	29+67.41	38.02' RT	699.87	MATCH EXISTING
D	29+66.39	39.85' RT	699.84	
E	29+63.85	44.40' RT	699.58	
F	29+61.03	51.44' RT	699.48	
G	29+56.68	67.47' RT	698.69	MATCH EXISTING
H	29+48.52	65.16' RT	698.65	MATCH EXISTING
I	29+53.45	48.50' RT	699.59	
J	29+56.49	40.96' RT	699.70	
K	29+58.42	36.15' RT	699.96	
L	29+59.19	34.21' RT	699.99	MATCH EXISTING
M	29+54.27	32.50' RT	700.07	MATCH EXISTING
N	29+53.60	34.61' RT	700.39	MATCH EXISTING
O	29+55.64	39.09' RT	699.90	
P	29+54.84	41.62' RT	699.75	
Q	29+52.24	46.10' RT	699.70	
R	29+38.84	42.32' RT	700.28	
S	29+41.37	37.83' RT	700.36	
T	29+37.44	34.35' RT	700.41	
U	29+38.07	38.52' RT	700.39	MATCH EXISTING
V	29+37.72	41.33' RT	700.30	MATCH EXISTING
W	29+28.75	33.31' RT	700.29	
X	29+28.25	37.33' RT	700.23	MATCH EXISTING
Y	29+28.11	38.28' RT	700.21	MATCH EXISTING
Z	29+20.18	37.73' RT	700.58	
AA	29+20.23	32.72' RT	700.68	
BB	29+20.29	29.73' RT	700.74	MATCH EXISTING
CC	29+14.23	29.66' RT	700.76	MATCH EXISTING
DD	29+14.05	37.66' RT	700.60	
EE	29+39.89	36.52' RT	700.42	

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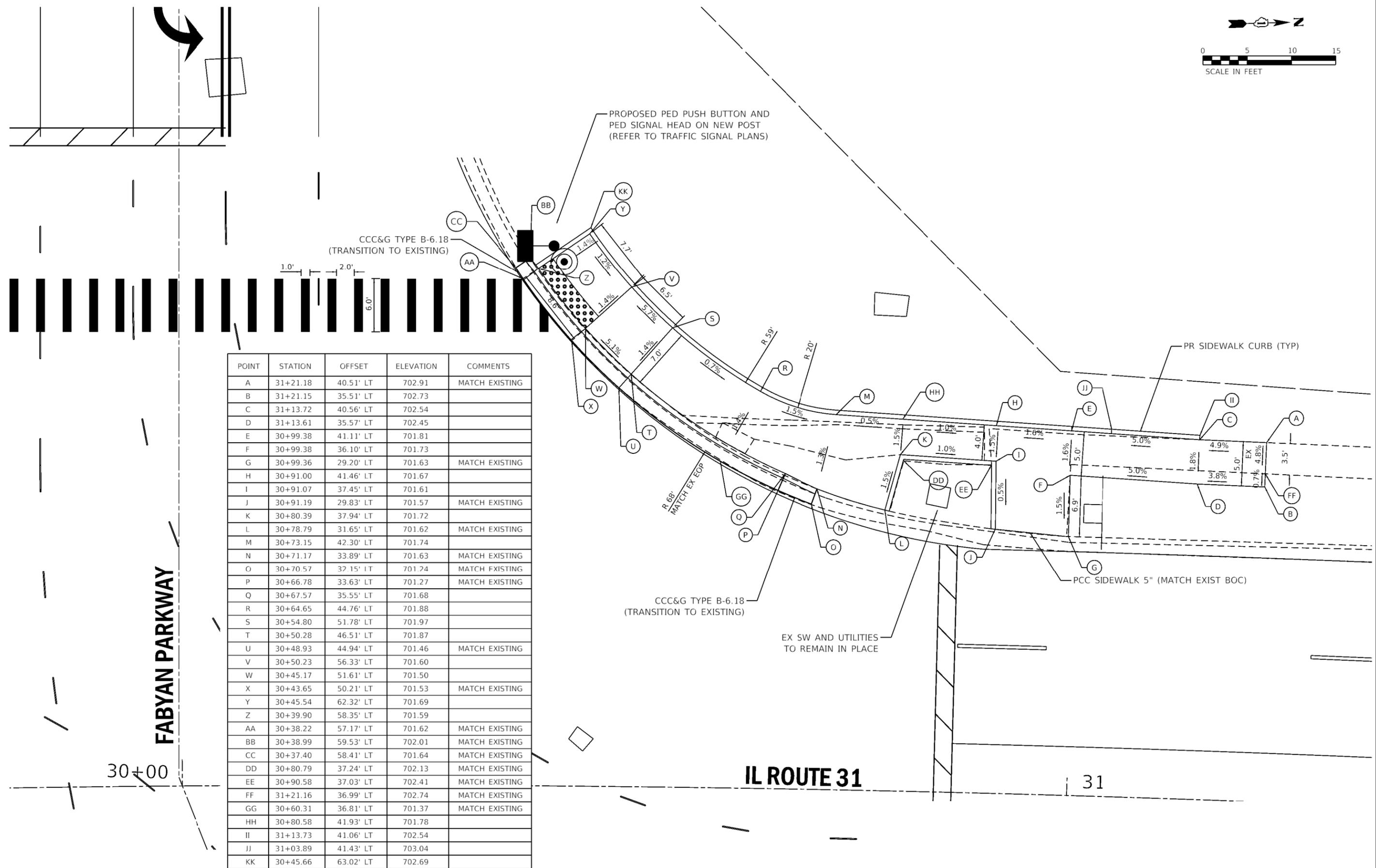
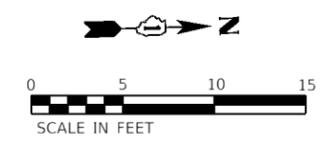
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PLOT DATE =	CHECKED - JAC/MET	REVISED -
	DATE - 01/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA DETAILS
SE CORNER OF FABYAN PARKWAY AT IL 31

SCALE: 1" = 5' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 21
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	



POINT	STATION	OFFSET	ELEVATION	COMMENTS
A	31+21.18	40.51' LT	702.91	MATCH EXISTING
B	31+21.15	35.51' LT	702.73	
C	31+13.72	40.56' LT	702.54	
D	31+13.61	35.57' LT	702.45	
E	30+99.38	41.11' LT	701.81	
F	30+99.38	36.10' LT	701.73	
G	30+99.36	29.20' LT	701.63	MATCH EXISTING
H	30+91.00	41.46' LT	701.67	
I	30+91.07	37.45' LT	701.61	
J	30+91.19	29.83' LT	701.57	MATCH EXISTING
K	30+80.39	37.94' LT	701.72	
L	30+78.79	31.65' LT	701.62	MATCH EXISTING
M	30+73.15	42.30' LT	701.74	
N	30+71.17	33.89' LT	701.63	MATCH EXISTING
O	30+70.57	32.15' LT	701.74	MATCH EXISTING
P	30+66.78	33.63' LT	701.27	MATCH EXISTING
Q	30+67.57	35.55' LT	701.68	
R	30+64.65	44.76' LT	701.88	
S	30+54.80	51.78' LT	701.97	
T	30+50.28	46.51' LT	701.87	
U	30+48.93	44.94' LT	701.46	MATCH EXISTING
V	30+50.23	56.33' LT	701.60	
W	30+45.17	51.61' LT	701.50	
X	30+43.65	50.21' LT	701.53	MATCH EXISTING
Y	30+45.54	62.32' LT	701.69	
Z	30+39.90	58.35' LT	701.59	
AA	30+38.22	57.17' LT	701.62	MATCH EXISTING
BB	30+38.99	59.53' LT	702.01	MATCH EXISTING
CC	30+37.40	58.41' LT	701.64	MATCH EXISTING
DD	30+80.79	37.24' LT	702.13	MATCH EXISTING
EE	30+90.58	37.03' LT	702.41	MATCH EXISTING
FF	31+21.16	36.99' LT	702.74	MATCH EXISTING
GG	30+60.31	36.81' LT	701.37	MATCH EXISTING
HH	30+80.58	41.93' LT	701.78	
II	31+13.73	41.06' LT	702.54	
JJ	31+03.89	41.43' LT	703.04	
KK	30+45.66	63.02' LT	702.69	

FABYAN PARKWAY

IL ROUTE 31

30+00

31

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PLOT DATE =	CHECKED - JAC/MET	REVISED -
	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA DETAILS
NW CORNER OF FABYAN PKWY AT IL RTE 31**

SCALE: 1" = 5' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 22
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

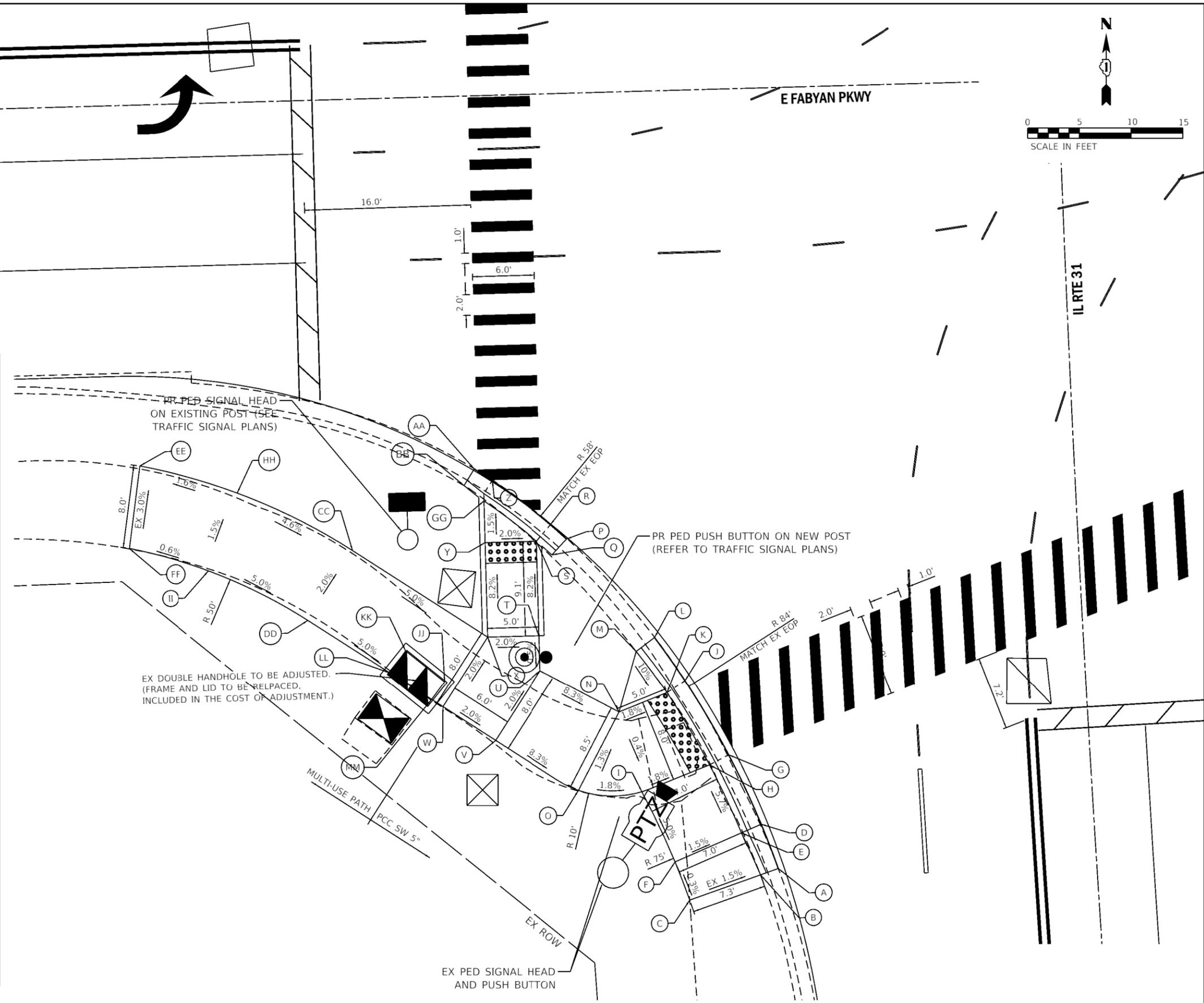


IL RTE 31

E FABYAN PKWY

ONLY

POINT	STATION	OFFSET	ELEVATION	COMMENTS
A	29+25.30	30.81' LT	701.44	MATCH EXISTING
B	29+24.80	32.56' LT	701.85	MATCH EXISTING
C	29+22.83	39.54' LT	701.96	MATCH EXISTING
D	29+29.60	32.19' LT	701.45	MATCH EXISTING
E	29+28.90	34.15' LT	701.86	
F	29+26.54	40.73' LT	701.95	
G	29+36.39	34.93' LT	701.48	MATCH EXISTING
H	29+35.54	36.83' LT	701.45	
I	29+33.37	43.52' LT	701.58	
J	29+43.68	38.74' LT	701.53	MATCH EXISTING
K	29+42.63	40.53' LT	701.50	
L	29+47.96	41.45' LT	701.55	MATCH EXISTING
M	29+46.73	43.29' LT	702.01	MATCH EXISTING
N	29+41.05	45.27' LT	701.59	
O	29+33.86	49.63' LT	701.69	
P	29+57.73	49.45' LT	701.61	MATCH EXISTING
Q	29+56.29	50.93' LT	702.01	MATCH EXISTING
R	29+59.15	50.93' LT	701.61	MATCH EXISTING
S	29+57.67	52.36' LT	701.58	
T	29+48.72	52.59' LT	702.33	
U	29+45.39	52.68' LT	702.31	
V	29+39.04	57.37' LT	702.47	
W	29+42.05	62.27' LT	702.59	
X	29+48.85	57.59' LT	702.43	
Y	29+61.75	57.25' LT	701.68	
Z	29+63.60	56.37' LT	701.65	MATCH EXISTING
AA	29+64.78	58.06' LT	701.66	MATCH EXISTING
BB	29+63.09	59.23' LT	702.10	MATCH EXISTING
CC	29+57.67	70.18' LT	703.20	
DD	29+51.33	74.84' LT	703.36	
EE	29+66.57	90.33' LT	703.61	MATCH EXISTING
FF	29+58.93	91.74' LT	703.84	MATCH EXISTING
GG	29+61.72	57.27' LT	701.62	
HH	29+63.59	81.02' LT	703.77	HIGH POINT
II	29+56.46	84.17' LT	703.89	
JJ	29+44.83	61.98' LT	702.61	EX EL 703.16, DIFF 6.6"
KK	29+47.98	65.57' LT	702.84	EX EL 703.48, DIFF 7.7"
LL	29+45.99	67.21' LT	702.89	EX EL 703.68, DIFF 9.5"
MM	29+43.25	63.32' LT	702.65	EX EL 703.25, DIFF 7.2"



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	DATE - 01/13/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA DETAILS
SW CORNER OF FABYAN PARKWAY AT IL RTE 31

SCALE: 1" = 5' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-SP	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 23
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

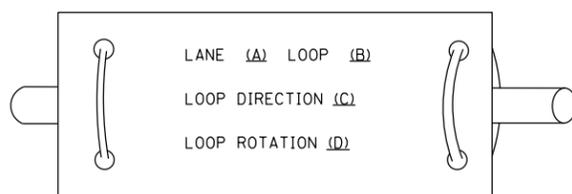
SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00493-00-SP	KANE	46	24
TS-05		CONTRACT NO. 61G91		
ILLINOIS FED. AID PROJECT				

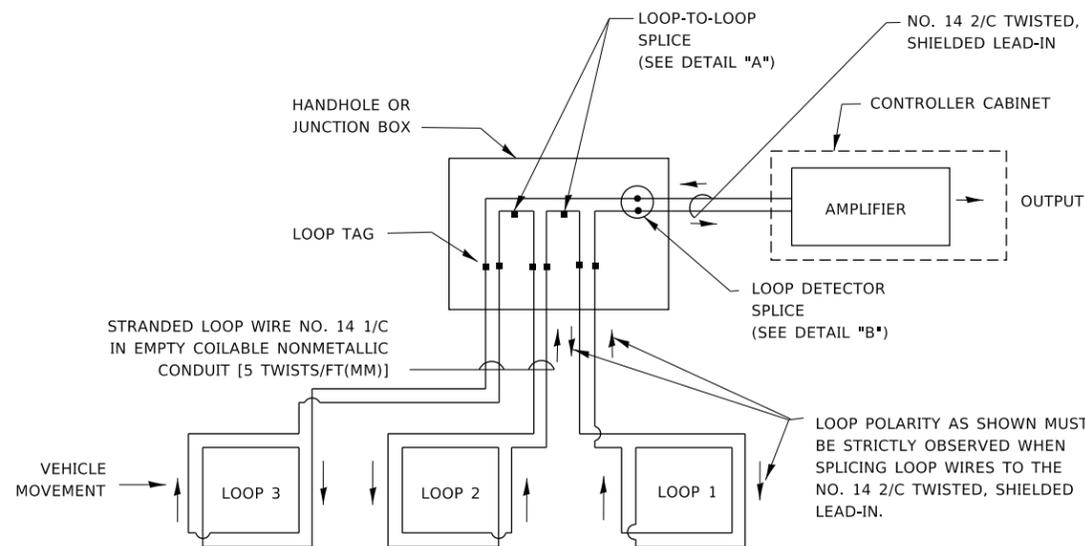
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

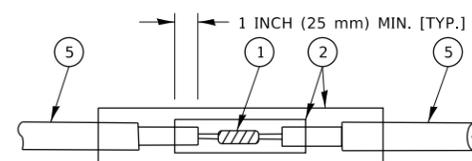


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

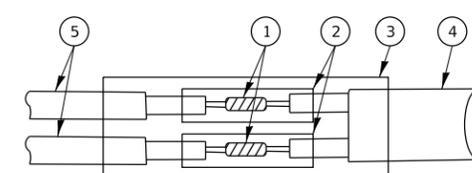


DETECTOR LOOP WIRING SCHEMATIC

- 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.

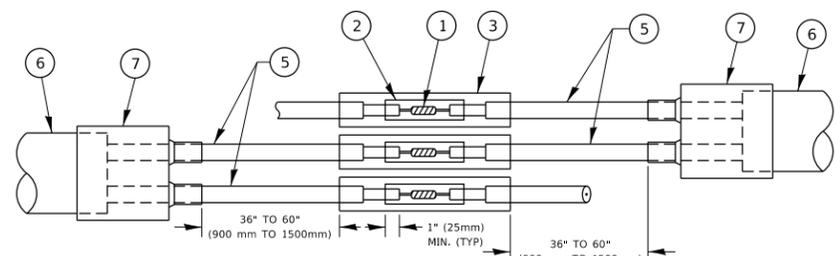


DETAIL "A"
LOOP-TO-LOOP SPLICE

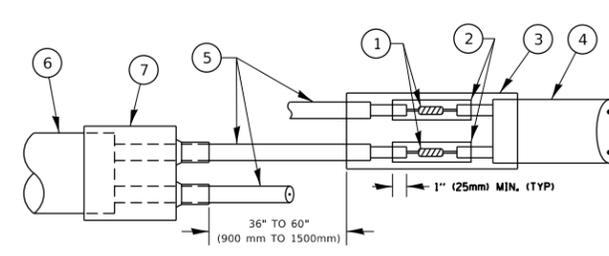


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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. PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

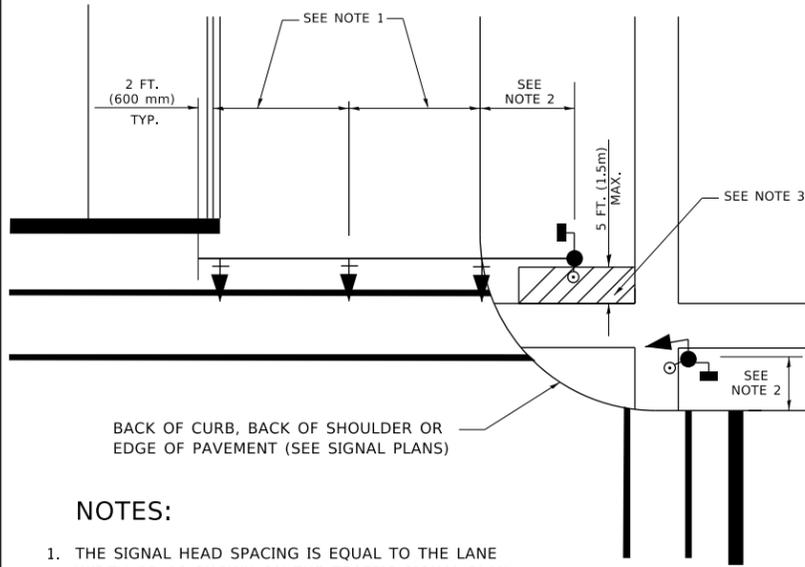
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00493-00-SP	KANE	46	25
TS-05			CONTRACT NO. 61G91	
ILLINOIS		FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

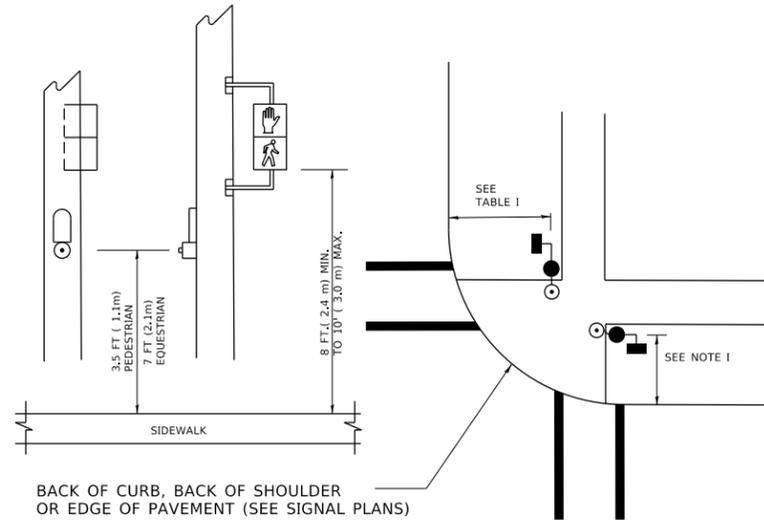
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

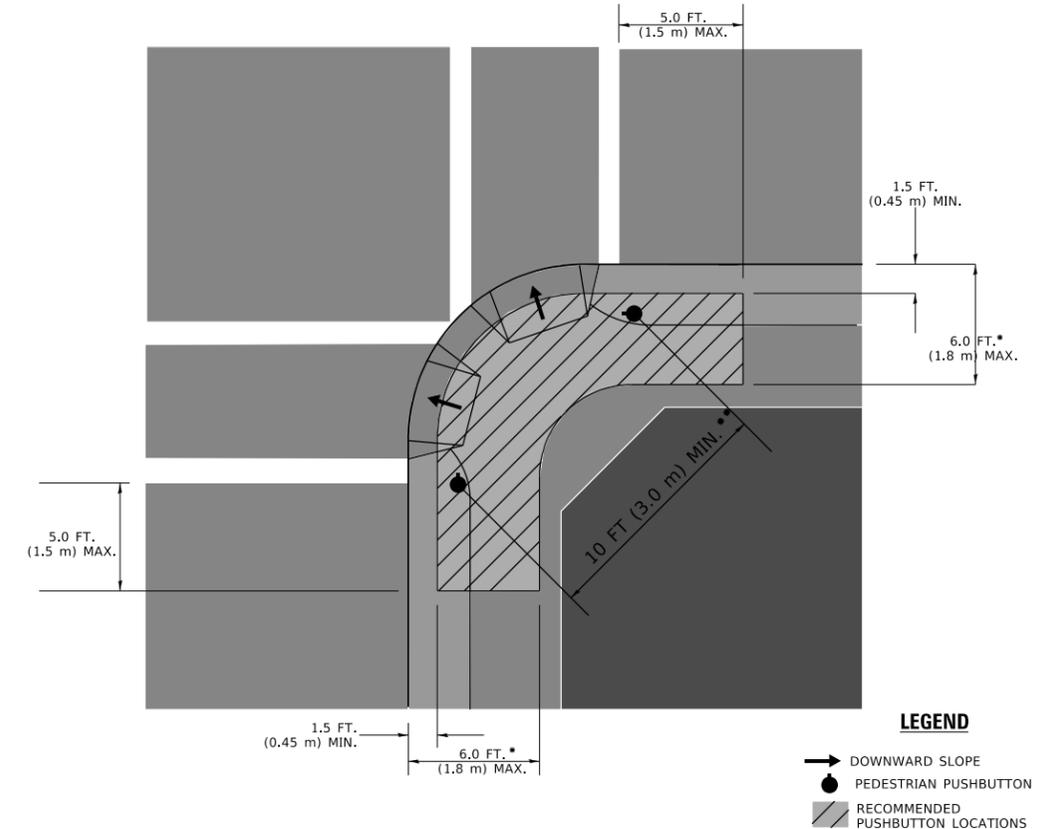
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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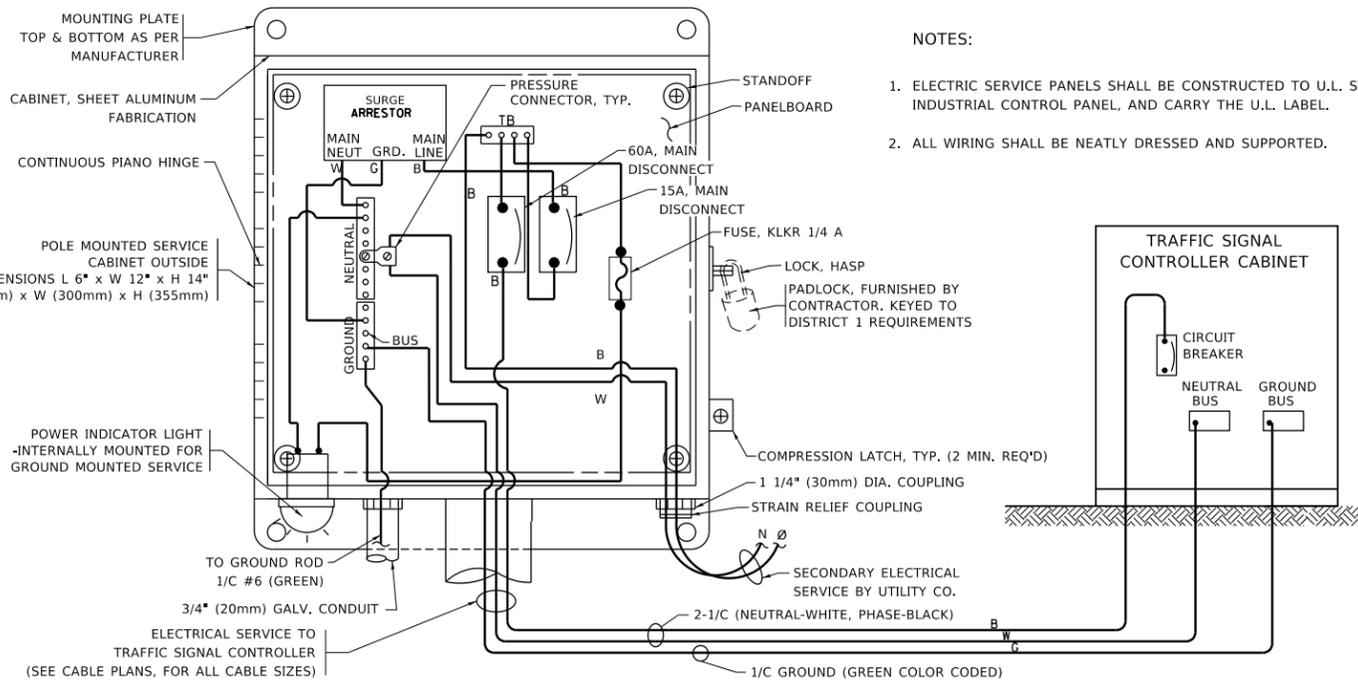
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

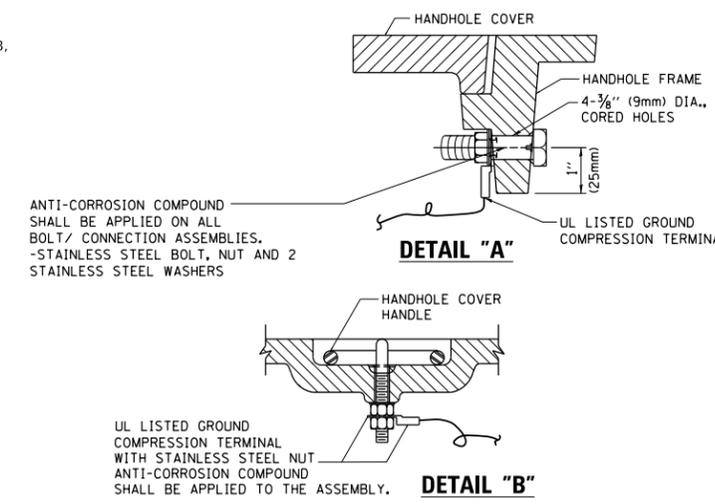
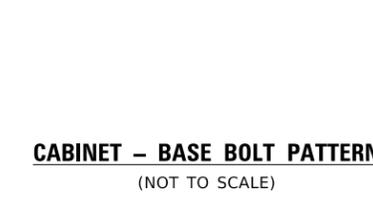
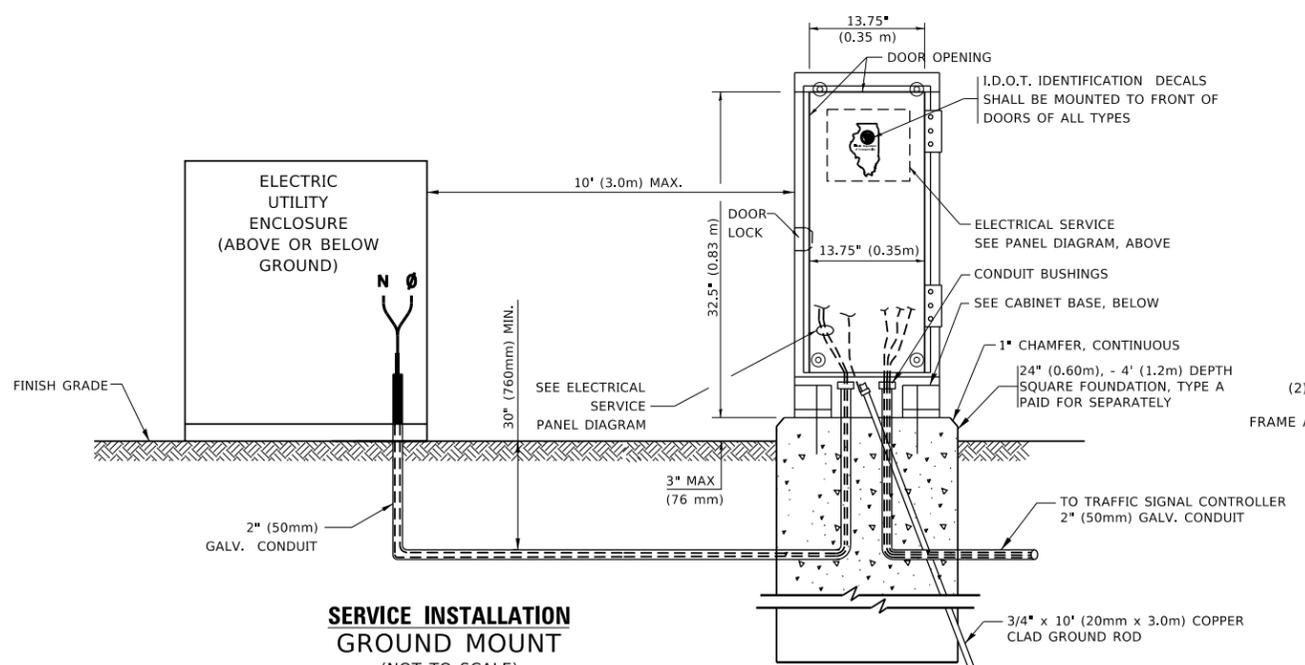
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 61G91		
ILLINOIS FED. AID PROJECT				

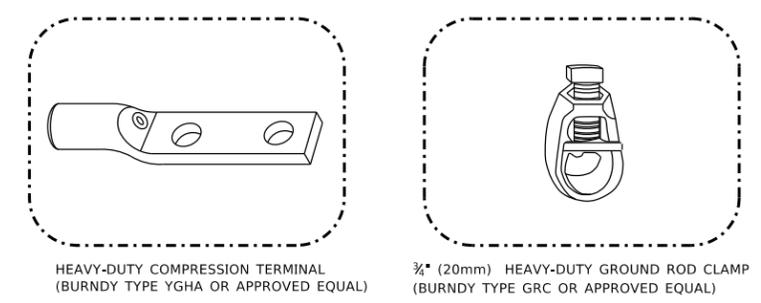
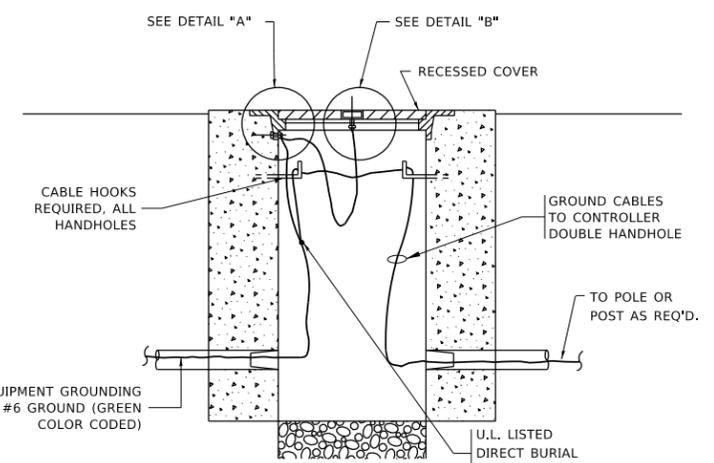


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



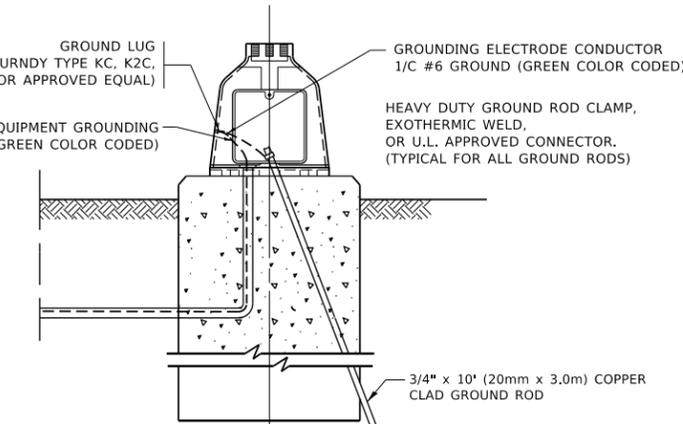
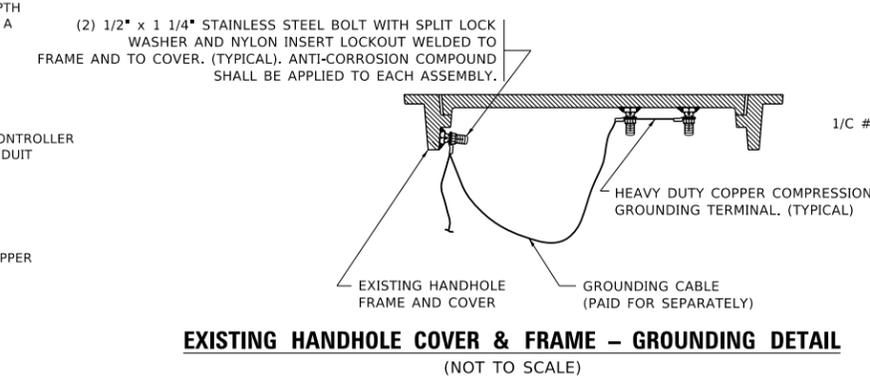
NOTES:
GROUNDING SYSTEM

- 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

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



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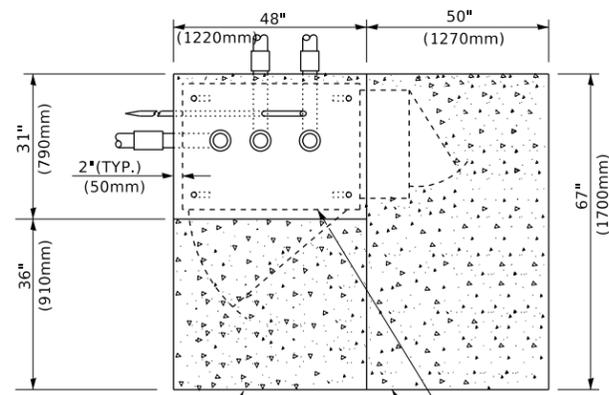
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

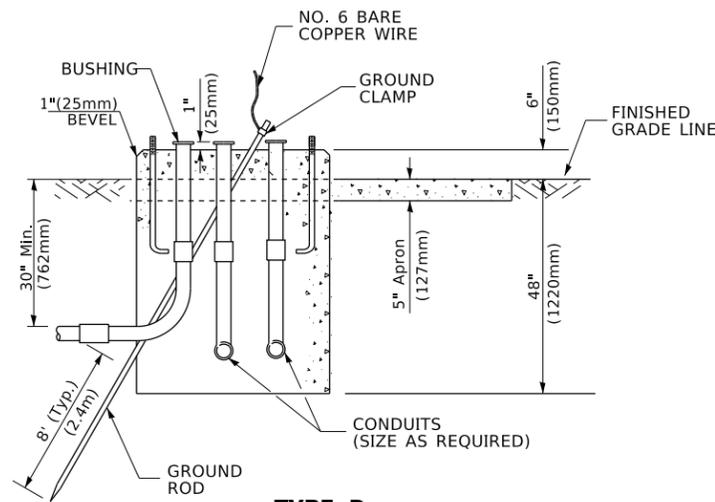
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

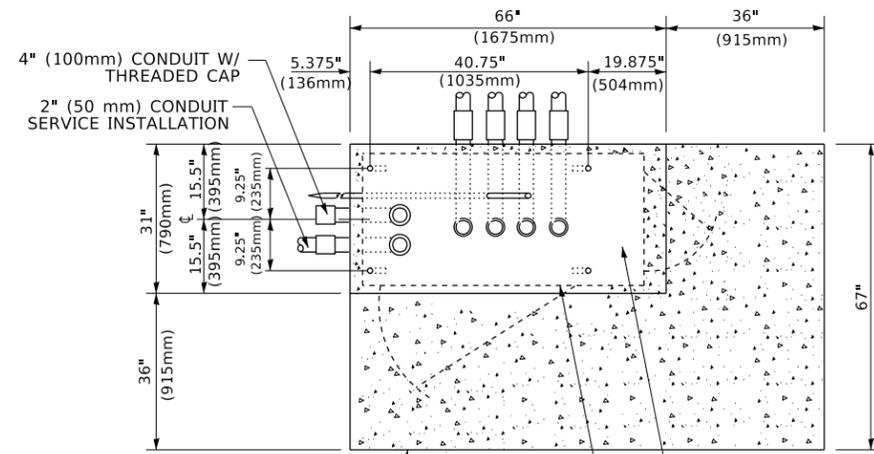
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00493-00-SP	KANE	46	27
	TS-05		CONTRACT NO. 61G91	
		ILLINOIS	FED. AID PROJECT	



TOP VIEW



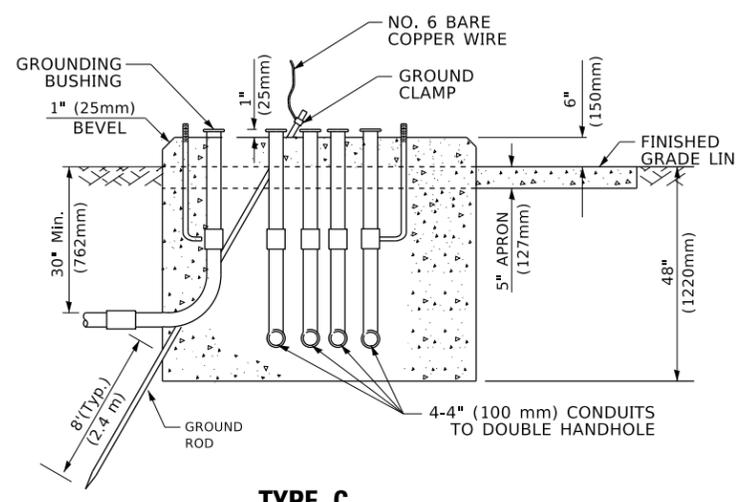
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



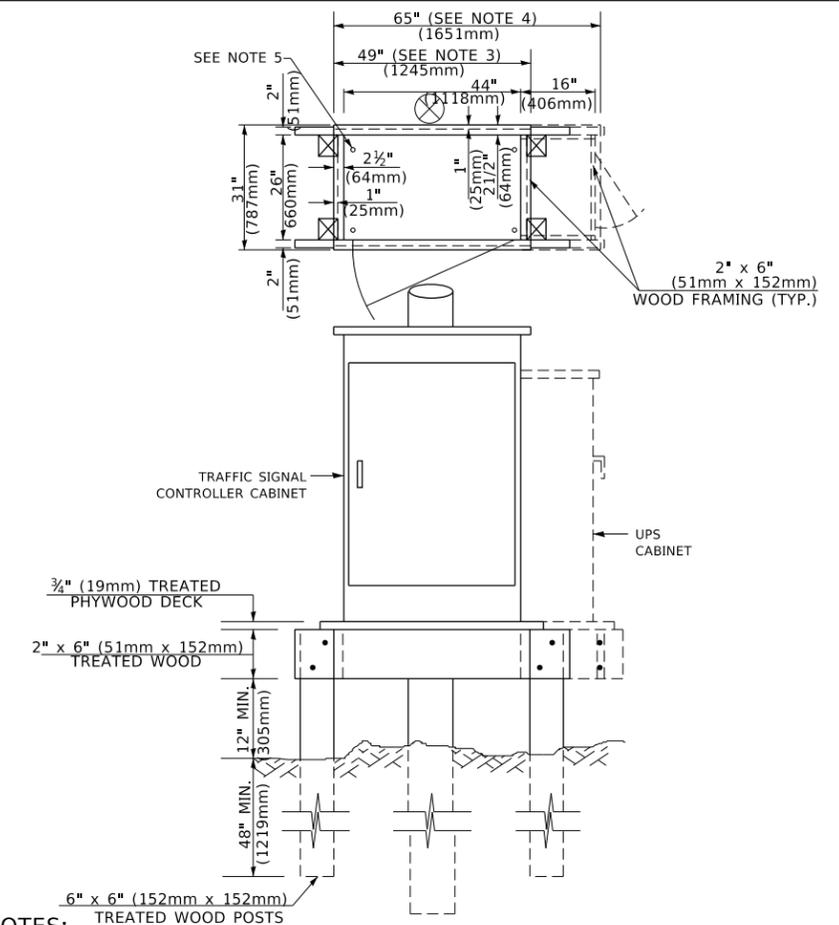
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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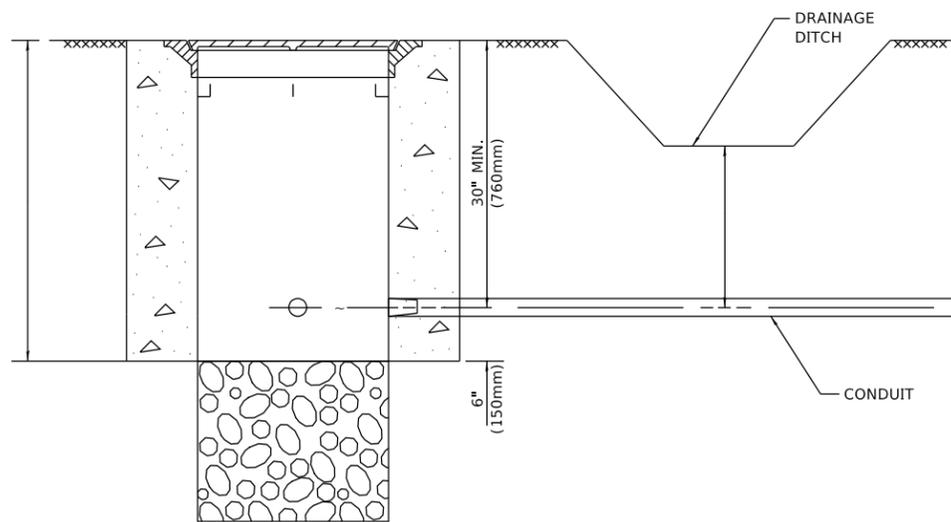
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PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

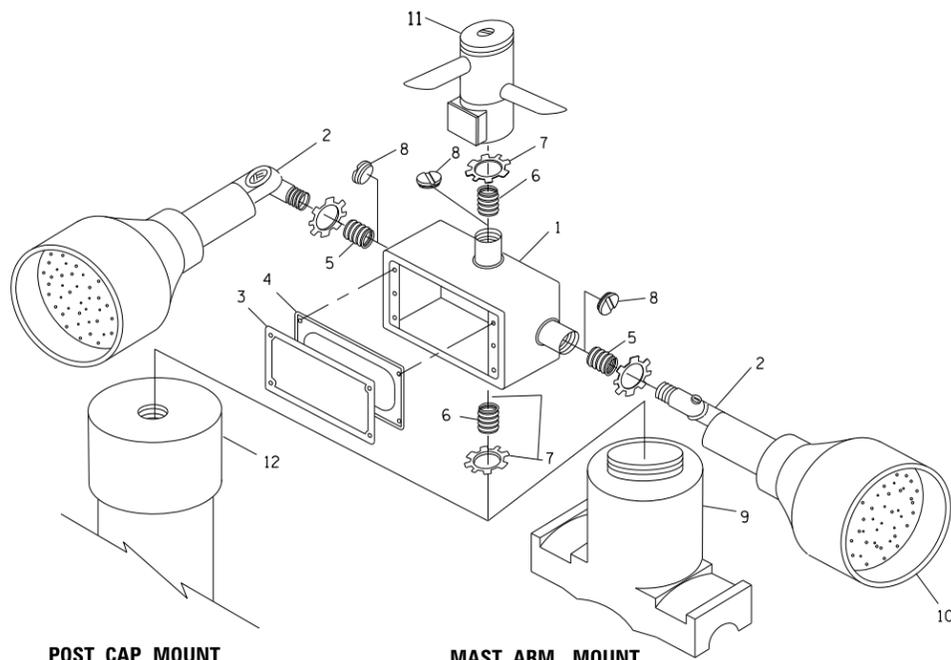
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18-00493-00-SP		KANE	46	28
TS-05			CONTRACT NO. 61G91	
ILLINOIS		FED. AID PROJECT		



NOTES:

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

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

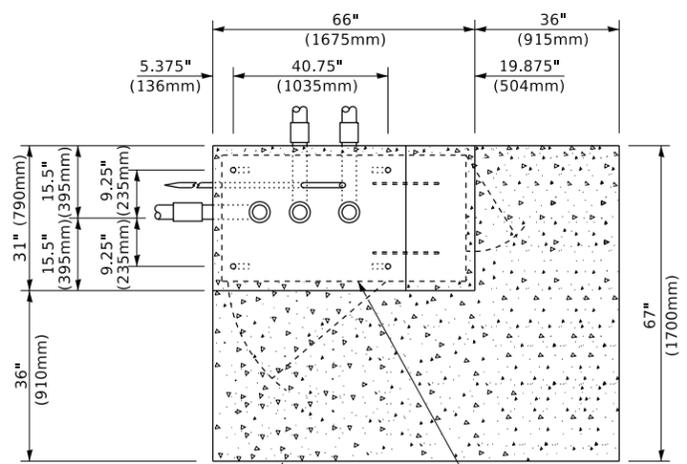


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL

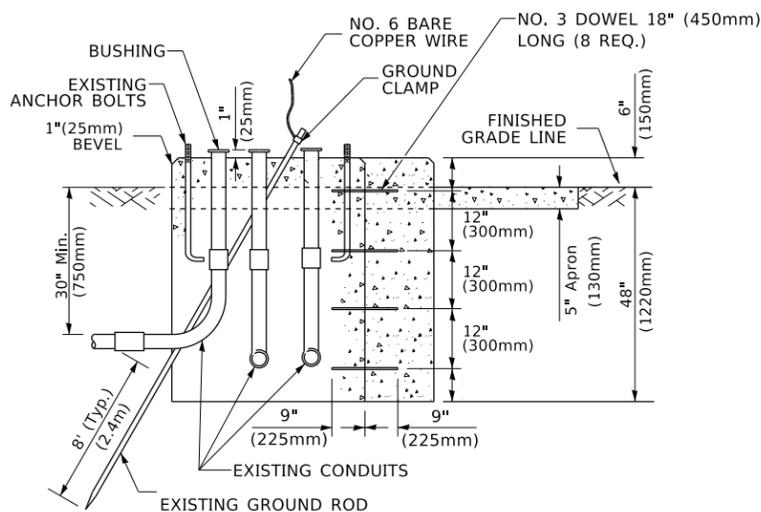
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

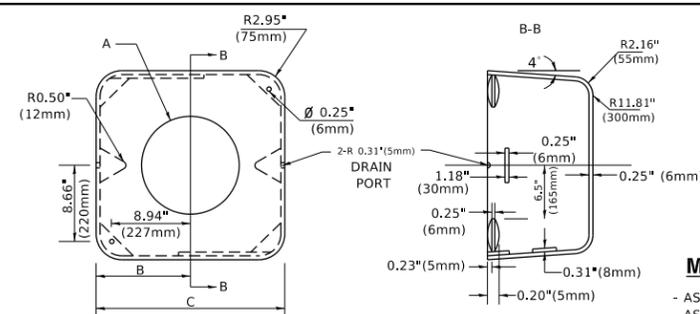
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE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



TOP VIEW
(NOT TO SCALE)



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



MATERIAL

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

A	B	C	HEIGHT	WEIGHT
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)

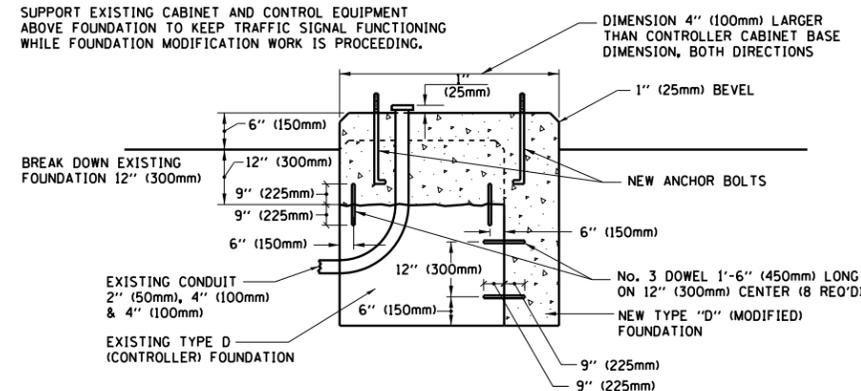
SHROUD

NOTES:

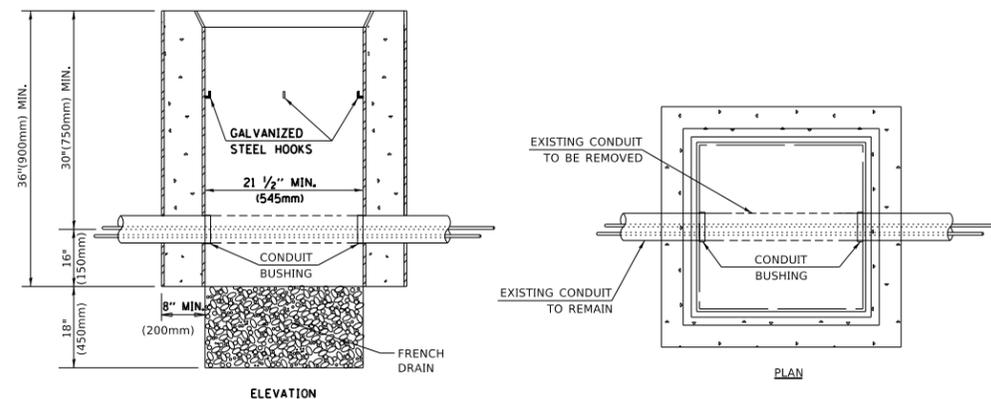
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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

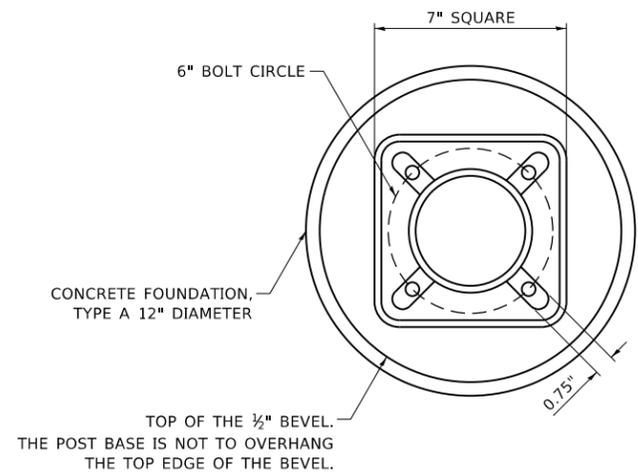
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00493-00-SP	KANE	46	29
	TS-05	CONTRACT NO. 61G91		

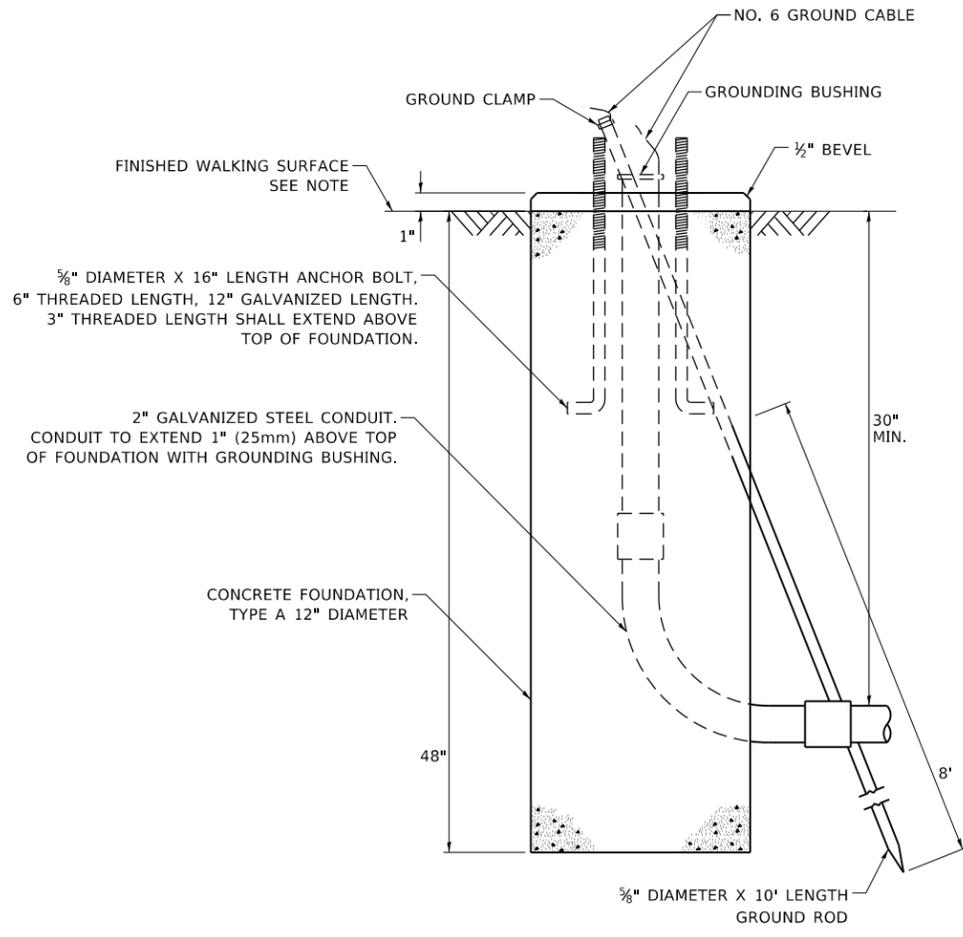
SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

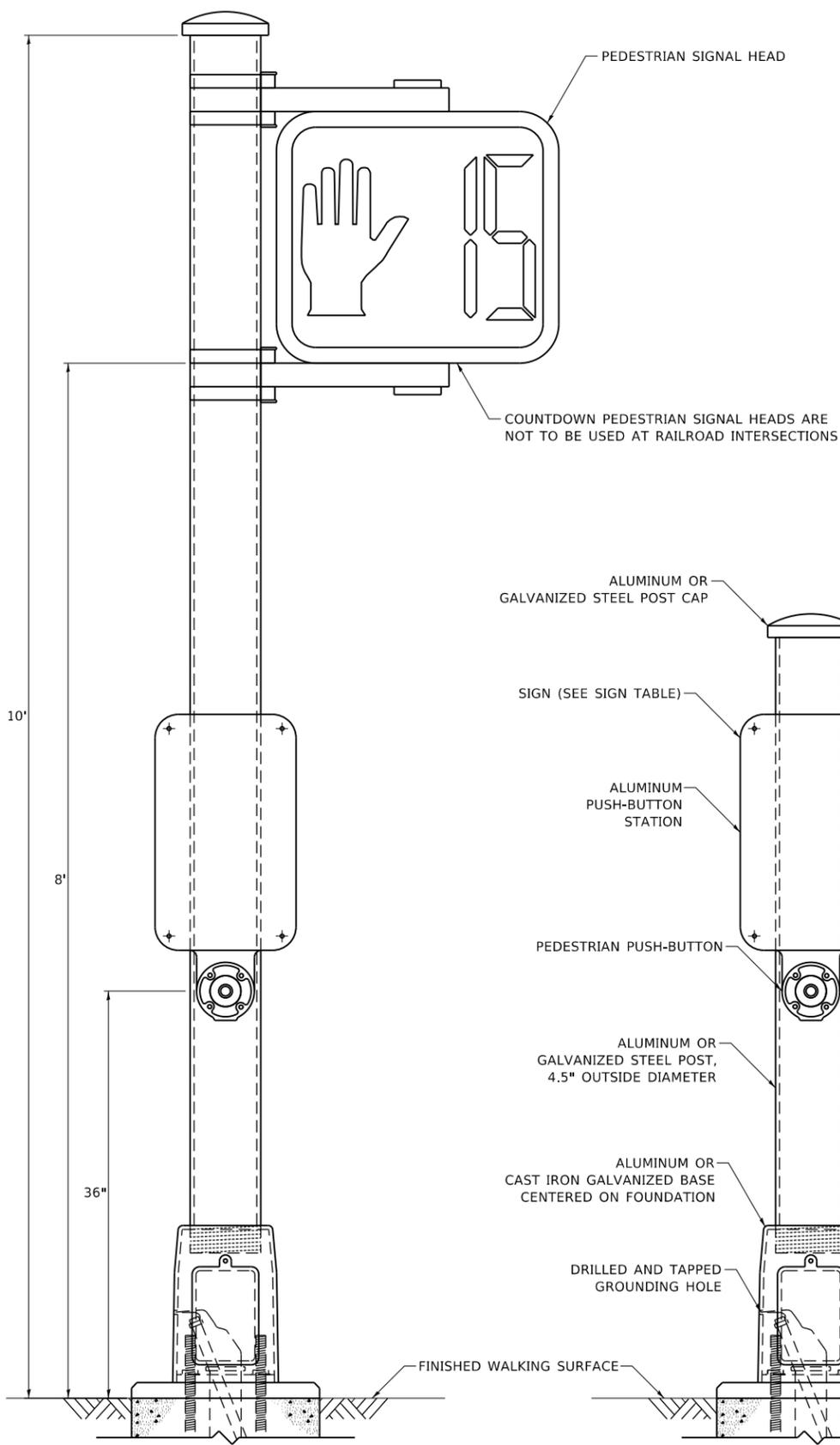


BOLT PATTERN

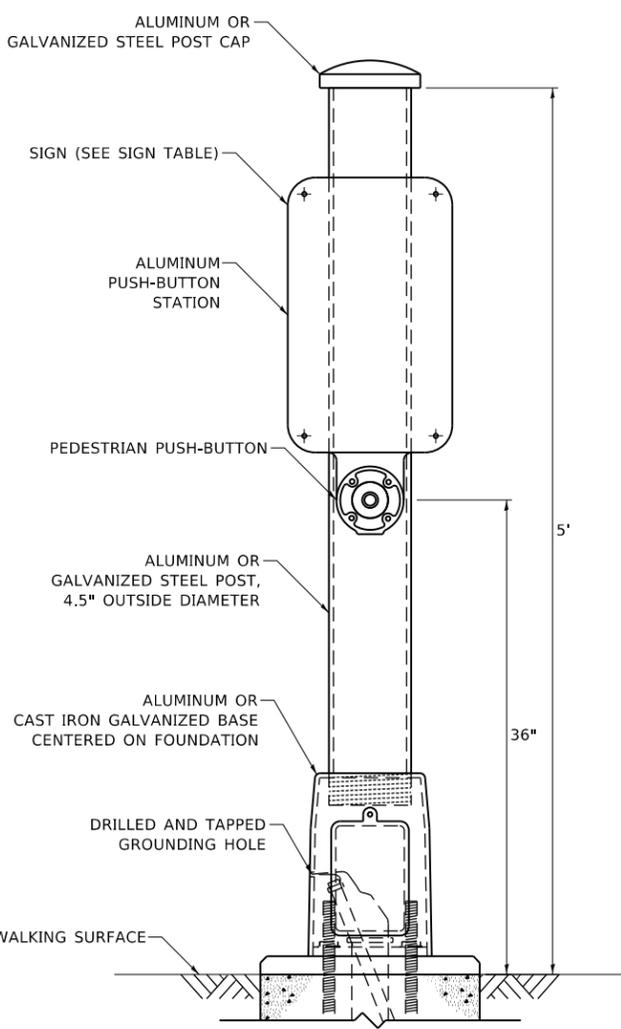
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



PEDESTRIAN SIGNAL POST, 5 FT.



SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

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

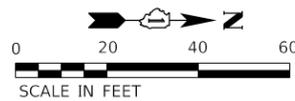
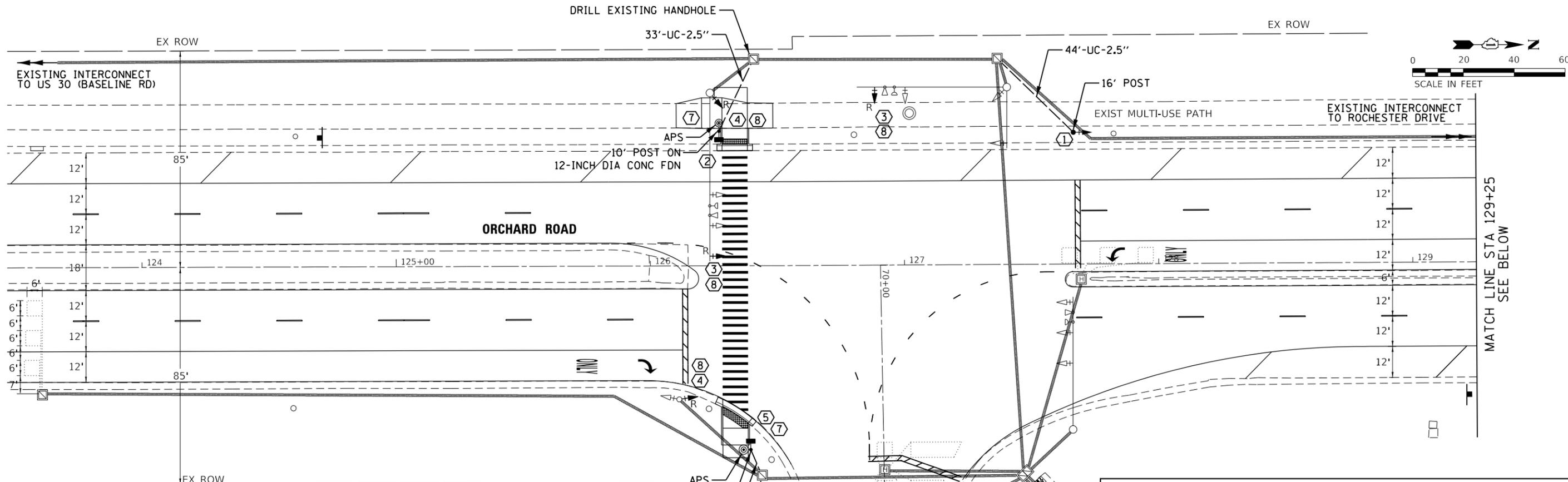
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

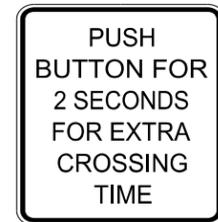
**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**
 SCALE: NTS SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00493-00-SP	KANE	46	30
TS-05		CONTRACT NO. 61G91		
ILLINOIS		FED. AID PROJECT		



CONSTRUCTION NOTES:

- ① INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 3-SECTION, POST MOUNTED WITH BACKPLATE ON PROPOSED 16' TRAFFIC SIGNAL POST. PULL NEW CABLE TO CONTROL CABINET.
- ② INSTALL NEW PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL (PUSHBUTTON) ON PROPOSED PEDESTRIAN SIGNAL POST, 10-FT AT STA 126+25, O/S 52' LT. PULL NEW CABLES TO CONTROL CABINET. CONCRETE FOUNDATION SHALL BE 12-INCH DIAMETER.
- ③ REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION OR 3-SECTION, MAST ARM MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED WITH BACKPLATE. RE-USE EXISTING CABLES. INSTALL FYA SIGN, SEE DETAIL.
- ④ REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION OR 3-SECTION, BRACKET MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED WITH BACKPLATE. RE-USE EXISTING CABLES. INSTALL FYA SIGN, SEE DETAIL.
- ⑤ INSTALL NEW PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL (PUSHBUTTON) ON PROPOSED PEDESTRIAN SIGNAL POST, 10-FT AT STA 126+39, O/S 72' RT. PULL NEW CABLES TO CONTROL CABINET. CONCRETE FOUNDATION SHALL BE 12-INCH DIAMETER.
- ⑥ INSTALL NEW CONTROLLER, MALFUNCTION MANAGEMENT UNIT (MMU), AND ANY OTHER REQUIRED CABINET MODIFICATIONS OR NEW HARDWARE TO DELIVER FUNCTIONAL REQUIREMENTS OUTLINED IN SIGNAL AND CABLE PLANS.
- ⑦ INSTALL R10-32P SIGNAGE ABOVE PUSH BUTTON ASSEMBLY. PUSH BUTTON INSTALLED AT THIS LOCATION SHALL ADDITIONALLY BE CAPABLE AND COMPATIBLE WITH SIGNAL CONTROLLER TO FACILITATE EXTENDED PRESS / EXTENDED WALK FUNCTIONALITY MEETING MUTCD REQUIREMENTS ESTABLISHED IN SECTION 4E.06 AND 4E.08. THE PUSH BUTTON SHALL SUPPORT FEATURES TO DIFFERENTIATE A MOMENTARY PUSH VERSUS A TWO SECOND PUSH REQUEST AND SEND APPROPRIATE INPUTS TO THE CONTROLLER TO FACILITATE THE DESIRED FUNCTION AND ALTERNATE WALK TIME SELECTION.
- ⑧ A "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE INSTALLED ADJACENT TO EVERY VEHICULAR TRAFFIC SIGNAL HEAD WHICH CONTAINS A FLASHING YELLOW ARROW INDICATION.
- ⑨ CONTRACTOR SHALL REMOVE EXISTING TRAFFIC SIGNAL BACKPLATES AND INSTALL TRAFFIC SIGNAL BACKPLATES, RETROREFLECTIVE FOR ALL EXISTING SIGNAL HEADS AT THE INTERSECTION.



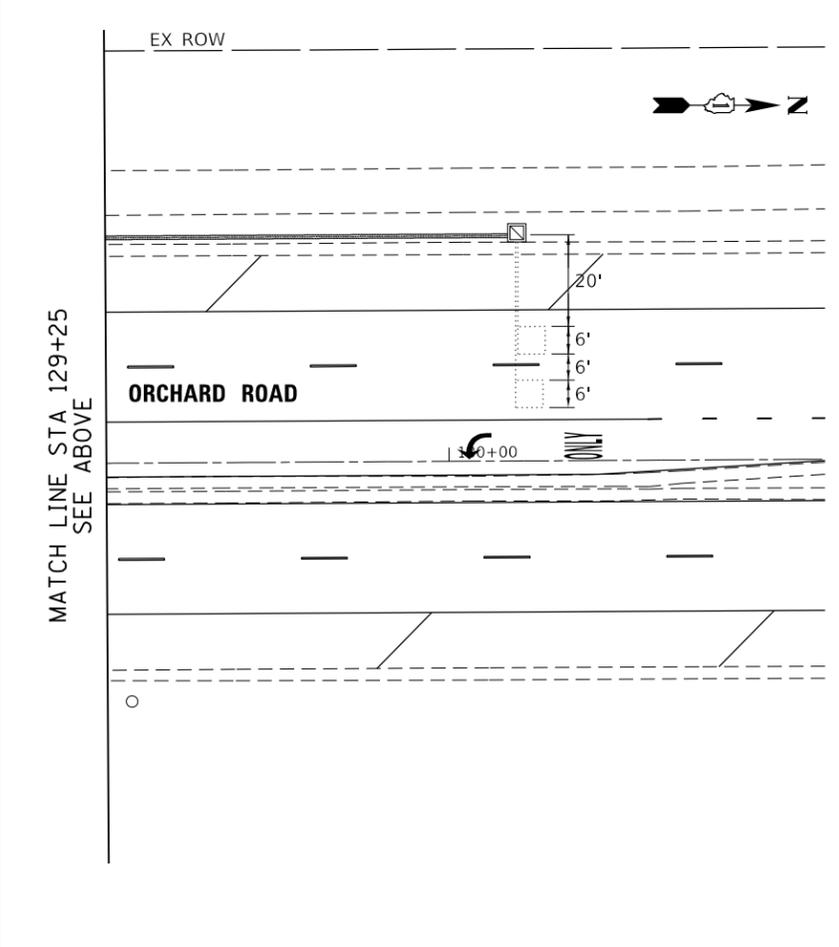
R10-32P

GENERAL NOTES

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

- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 14 EACH TRAFFIC SIGNAL BACKPLATE

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE WORK PERFORMED AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALK, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.



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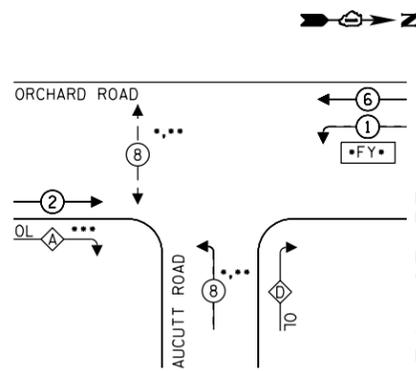
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
ORCHARD ROAD AT AUCUTT ROAD

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

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 31
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

CONTROLLER SEQUENCE



•CONTROLLER SHALL BE CAPABLE OF DYNAMIC CONTROL TO DRIVE VEHICLE PHASE 8 SIGNALS TO SHOW GREEN ARROW OR FLASHING YELLOW ARROW BASED UPON PEDESTRIAN PHASE 8 STATE OR PEDESTRIAN PHASE 8 DETECTION.

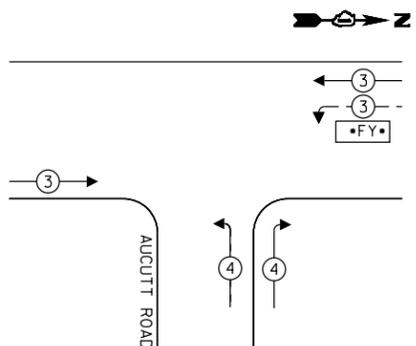
••CONTROLLER AND PEDESTRIAN EQUIPMENT SHALL BE CAPABLE OF EXTENDED PUSH BUTTON PRESS FUNCTIONALITY, SEE CONSTRUCTION NOTE 7.

•••CONTROLLER SHALL OMIT OVERLAP BASED UPON PEDESTRIAN PHASE 8 STATE OR PEDESTRIAN PHASE 8 DETECTION.

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PROTECTED PHASE
A	= 8
D	= 1 + 8

EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

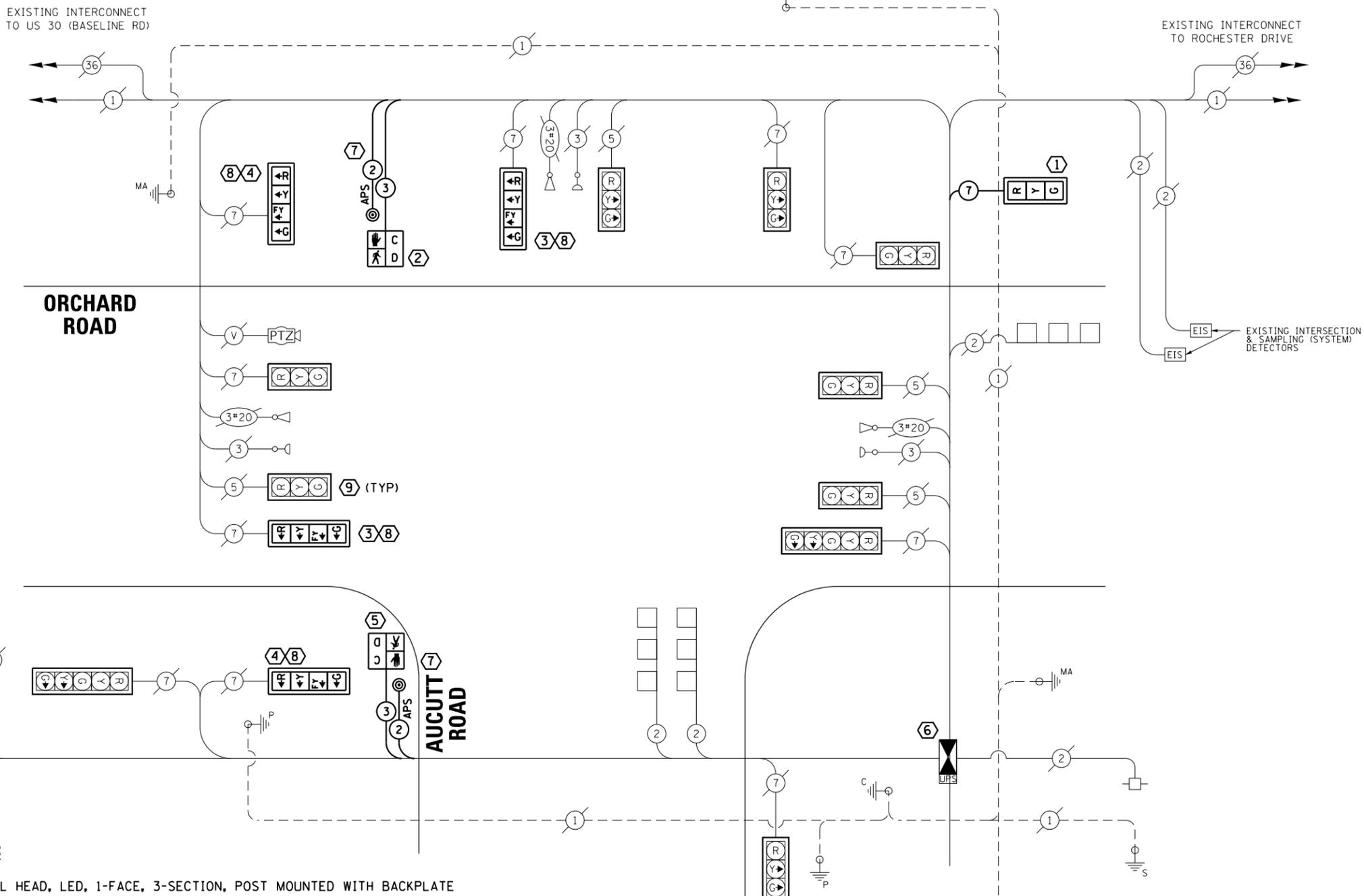
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
ARROW-EXCEPT FY	20	10	50	100.0
ARROW-FY	4	12	50	24.0
PED. SIGNAL	2	25	100	50.0
CONTROLLER	1	100	100	100.0
UPS	1	50	100	50.0
PTZ/SURVEILLANCE	1	60	100	60
TOTAL =				506.7

ENERGY COSTS - BILLED TO:
 (ADDRESS) KANE COUNTY DOT
41W011 BURLINGTON ROAD
ST. CHARLES, IL 60175

ENERGY SUPPLY - CONTACT: MIKE WIDHALM
 PHONE: (847) 608-2376
 COMPANY: COMMONWEALTH EDISON

CONSTRUCTION NOTES:

- INSTALL NEW SIGNAL HEAD, LED, 1-FACE, 3-SECTION, POST MOUNTED WITH BACKPLATE ON PROPOSED 16' TRAFFIC SIGNAL POST. PULL NEW CABLE TO CONTROL CABINET.
- INSTALL NEW PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER AND INSTALL NEW PEDESTRIAN PUSH-BUTTON WITH APS ON PROPOSED PEDESTRIAN SIGNAL POST AT STA 126+25, O/S 52' LT. PULL NEW CABLES TO CONTROL CABINET.
- REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION OR 3-SECTION, MAST ARM MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED WITH BACKPLATE. RE-USE EXISTING CABLES. INSTALL FYA SIGN, SEE DETAIL.
- REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION OR 3-SECTION, BRACKET MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED WITH BACKPLATE. RE-USE EXISTING CABLES. INSTALL FYA SIGN, SEE DETAIL.
- INSTALL NEW PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER AND INSTALL NEW PEDESTRIAN PUSH-BUTTON WITH APS ON PROPOSED PEDESTRIAN SIGNAL POST AT APPROXIMATELY STA 126+39, O/S 72' RT. PULL NEW CABLES TO CONTROL CABINET.
- INSTALL NEW CONTROLLER, MALFUNCTION MANAGEMENT UNIT (MMU), AND ANY OTHER REQUIRED CABINET MODIFICATIONS OR NEW HARDWARE TO DELIVER FUNCTIONAL REQUIREMENTS OUTLINED IN SIGNAL AND CABLE PLANS.
- INSTALL R10-32P SIGNAGE ABOVE PUSH BUTTON ASSEMBLY. PUSH BUTTON INSTALLED AT THIS LOCATION SHALL ADDITIONALLY BE CAPABLE AND COMPATIBLE WITH SIGNAL CONTROLLER TO FACILITATE EXTENDED PRESS/EXTENDED WALK FUNCTIONALITY MEETING MUTCD REQUIREMENTS ESTABLISHED IN SECTION 4E.06 AND 4E.08. THE PUSH BUTTON SHALL SUPPORT FEATURES TO DIFFERENTIATE A MOMENTARY PUSH VERSUS A TWO SECOND PUSH REQUEST AND SEND APPROPRIATE INPUTS TO THE CONTROLLER TO FACILITATE THE DESIRED FUNCTION AND ALTERNATE WALK TIME SELECTION.
- A "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE INSTALLED ADJACENT TO EVERY VEHICULAR TRAFFIC SIGNAL HEAD WHICH CONTAINS A FLASHING YELLOW ARROW INDICATION.
- CONTRACTOR SHALL REMOVE EXISTING TRAFFIC SIGNAL BACKPLATES AND INSTALL NEW RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES FOR ALL EXISTING SIGNAL HEADS AT THE INTERSECTION.



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PLOT SCALE =	CHECKED - JAC/MET	REVISED -
PLOT DATE =	DATE - 01/13/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM ORCHARD ROAD AT AUCUTT ROAD

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 32
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	500
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	500
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	862
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMERS	EACH	2
ACCESSIBLE PEDESTRIAN SIGNAL	EACH	2
PEDESTRIAN SIGNAL POST, 10 FT	EACH	1
TRAFFIC SIGNAL POST, 16 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	2
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2.5" DIA	FOOT	87
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	14
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	950
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
REOPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

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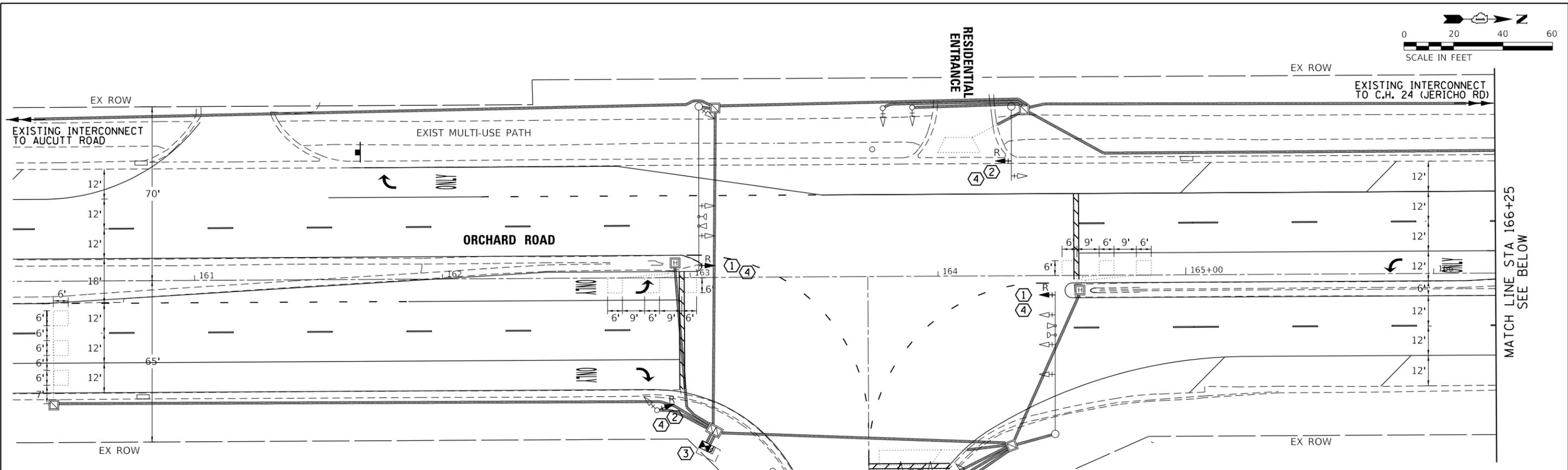
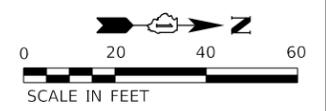
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PLOT DATE =	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ORCHARD ROAD AT AUCUTT ROAD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 336	18-00493-00-5P	KANE	46	33
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	



CONSTRUCTION NOTES:

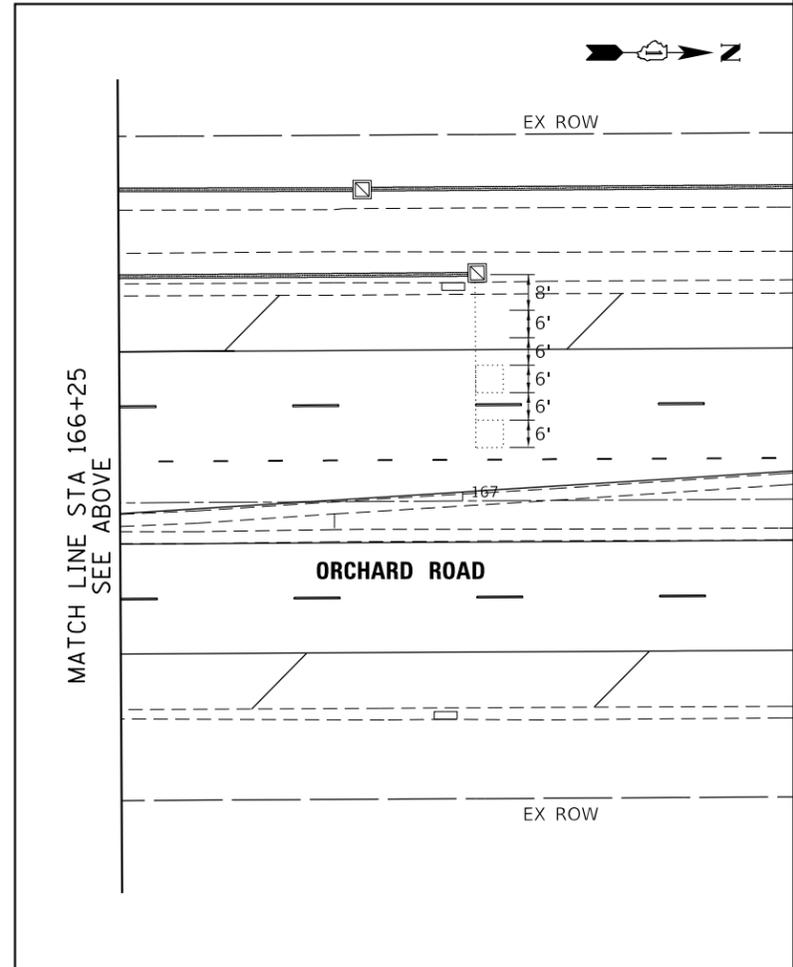
- ① REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED WITH BACKPLATE. PULL NEW CABLE TO CONTROL CABINET. INSTALL FYA SIGN.
- ② REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED WITH BACKPLATE. PULL NEW CABLE TO CONTROL CABINET. INSTALL FYA SIGN.
- ③ INSTALL NEW CONTROLLER, MALFUNCTION MANAGEMENT UNIT (MMU), AND ANY OTHER REQUIRED CABINET MODIFICATIONS OR NEW HARDWARE TO DELEIVER FUNCTIONAL REQUIREMENTS OUTLINED IN SIGNAL AND CABLE PLANS.
- ④ A "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE INSTALLED ADJACENT TO EVERY VEHICULAR TRAFFIC SIGNAL HEAD WHICH CONTAINS A FLASHING YELLOW ARROW INDICATION.
- ⑤ CONTRACTOR SHALL REMOVE EXISTING TRAFFIC SIGNAL BACKPLATES AND INSTALL NEW RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES FOR ALL EXISTING SIGNAL HEADS AT THE INTERSECTION.

GENERAL NOTES

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

4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
18	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	LEFT ON GREEN ARROW ONLY SIGN (R10-5)

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE WORK PERFORMED AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALK, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.



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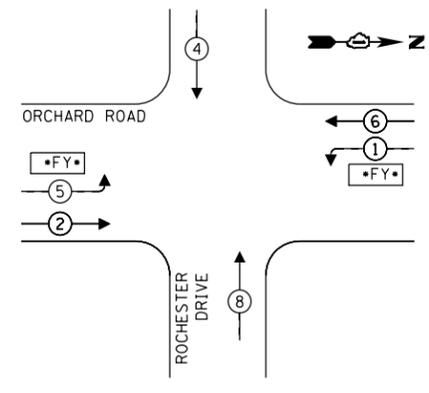
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
ORCHARD ROAD AT ROCHESTER DRIVE

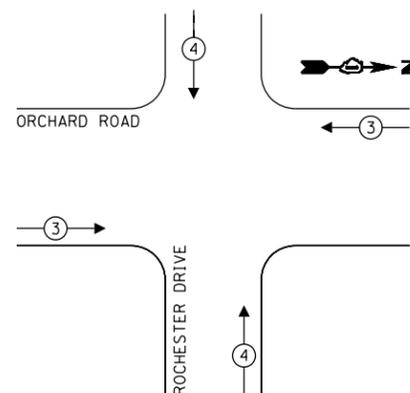
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F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 34
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

CONTROLLER SEQUENCE



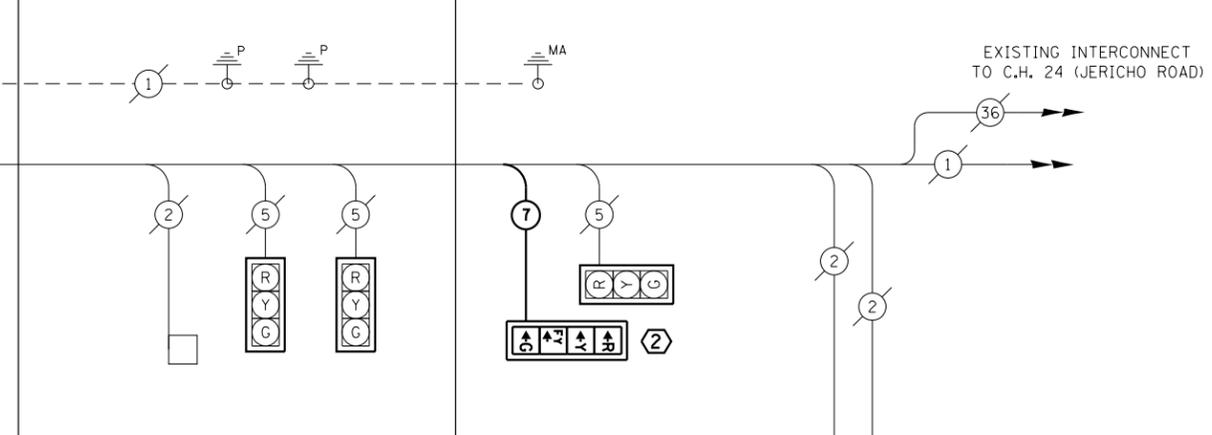
**EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	762
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	18
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	800
REOPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

**RESIDENTIAL
ENTRANCE**



**TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	11	50	77.0
(YELLOW)	14	20	5	14.0
(GREEN)	14	12	45	75.6
ARROW-EXCEPT FY	16	10	50	80.0
ARROW-FY	4	12	50	24.0
PED. SIGNAL	0	25	100	0.0
CONTROLLER	1	100	100	100.0
UPS	1	50	100	50.0
PTZ/SURVEILLANCE	1	60	100	60.0
TOTAL =				480.6

ENERGY COSTS - BILLED TO:
 (ADDRESS) KANE COUNTY DOT
41W011 BURLINGTON ROAD
ST. CHARLES, IL 60175

ENERGY SUPPLY - CONTACT: MIKE WIDHALM
 PHONE: (847) 608-2376
 COMPANY: COMMONWEALTH EDISON

CONSTRUCTION NOTES:

- ① REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED WITH RETROREFLECTIVE BACKPLATE. PULL NEW CABLE TO CONTROL CABINET. INSTALL FYA SIGN.
- ② REMOVE EXISTING TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED WITH BACKPLATE. INSTALL NEW SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED WITH RETROREFLECTIVE BACKPLATE. PULL NEW CABLE TO CONTROL CABINET. INSTALL FYA SIGN.
- ③ MODIFY EXISTING CONTROLLER AND CABINET. INSTALL NEW HARDWARE, MALFUNCTION MANAGEMENT UNIT (MMU), AND ANY OTHER REQUIRED CABINET MODIFICATIONS OR NEW HARDWARE TO DELIVER FUNCTIONAL REQUIREMENTS OUTLINED IN SIGNAL AND CABLE PLANS.
- ④ A "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE INSTALLED ADJACENT TO EVERY VEHICULAR TRAFFIC SIGNAL HEAD WHICH CONTAINS A FLASHING YELLOW ARROW INDICATION.
- ⑤ CONTRACTOR SHALL REMOVE EXISTING TRAFFIC SIGNAL BACKPLATES AND INSTALL NEW RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES FOR ALL EXISTING SIGNAL HEADS AT THE INTERSECTION.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ORCHARD ROAD AT ROCHESTER DRIVE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 336	18-00493-00-5P	KANE	46	35
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

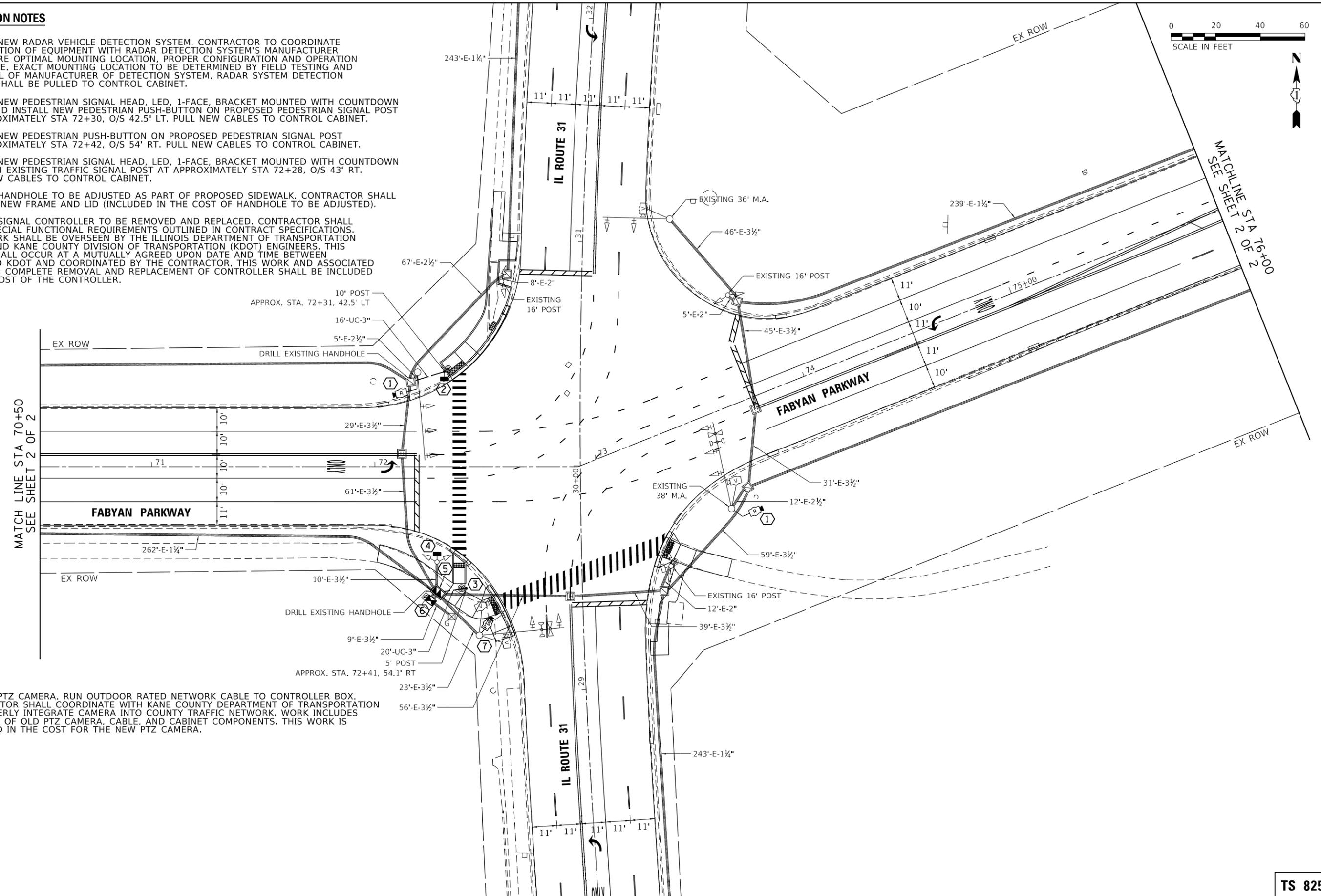
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PLOT DATE =	CHECKED - JAC/MET	REVISED -
	DATE - 01/13/2021	REVISED -

CONSTRUCTION NOTES

- ① INSTALL NEW RADAR VEHICLE DETECTION SYSTEM. CONTRACTOR TO COORDINATE INSTALLATION OF EQUIPMENT WITH RADAR DETECTION SYSTEM'S MANUFACTURER TO ENSURE OPTIMAL MOUNTING LOCATION, PROPER CONFIGURATION AND OPERATION OF DEVICE. EXACT MOUNTING LOCATION TO BE DETERMINED BY FIELD TESTING AND APPROVAL OF MANUFACTURER OF DETECTION SYSTEM. RADAR SYSTEM DETECTION CABLES SHALL BE PULLED TO CONTROL CABINET.
- ② INSTALL NEW PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER AND INSTALL NEW PEDESTRIAN PUSH-BUTTON ON PROPOSED PEDESTRIAN SIGNAL POST AT APPROXIMATELY STA 72+30, O/S 42.5' LT. PULL NEW CABLES TO CONTROL CABINET.
- ③ INSTALL NEW PEDESTRIAN PUSH-BUTTON ON PROPOSED PEDESTRIAN SIGNAL POST AT APPROXIMATELY STA 72+42, O/S 54' RT. PULL NEW CABLES TO CONTROL CABINET.
- ④ INSTALL NEW PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER ON EXISTING TRAFFIC SIGNAL POST AT APPROXIMATELY STA 72+28, O/S 43' RT. PULL NEW CABLES TO CONTROL CABINET.
- ⑤ DOUBLE HANDHOLE TO BE ADJUSTED AS PART OF PROPOSED SIDEWALK. CONTRACTOR SHALL PROVIDE NEW FRAME AND LID (INCLUDED IN THE COST OF HANDHOLE TO BE ADJUSTED).
- ⑥ TRAFFIC SIGNAL CONTROLLER TO BE REMOVED AND REPLACED. CONTRACTOR SHALL NOTE SPECIAL FUNCTIONAL REQUIREMENTS OUTLINED IN CONTRACT SPECIFICATIONS. THIS WORK SHALL BE OVERSEEN BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) AND KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) ENGINEERS. THIS WORK SHALL OCCUR AT A MUTUALLY AGREED UPON DATE AND TIME BETWEEN IDOT AND KDOT AND COORDINATED BY THE CONTRACTOR. THIS WORK AND ASSOCIATED WORK TO COMPLETE REMOVAL AND REPLACEMENT OF CONTROLLER SHALL BE INCLUDED IN THE COST OF THE CONTROLLER.



MATCH LINE STA 70+50
SEE SHEET 2 OF 2

MATCHLINE STA 76+00
SEE SHEET 2 OF 2

- ⑦ INSTALL PTZ CAMERA. RUN OUTDOOR RATED NETWORK CABLE TO CONTROLLER BOX. CONTRACTOR SHALL COORDINATE WITH KANE COUNTY DEPARTMENT OF TRANSPORTATION TO PROPERLY INTEGRATE CAMERA INTO COUNTY TRAFFIC NETWORK. WORK INCLUDES REMOVAL OF OLD PTZ CAMERA, CABLE, AND CABINET COMPONENTS. THIS WORK IS INCLUDED IN THE COST FOR THE NEW PTZ CAMERA.

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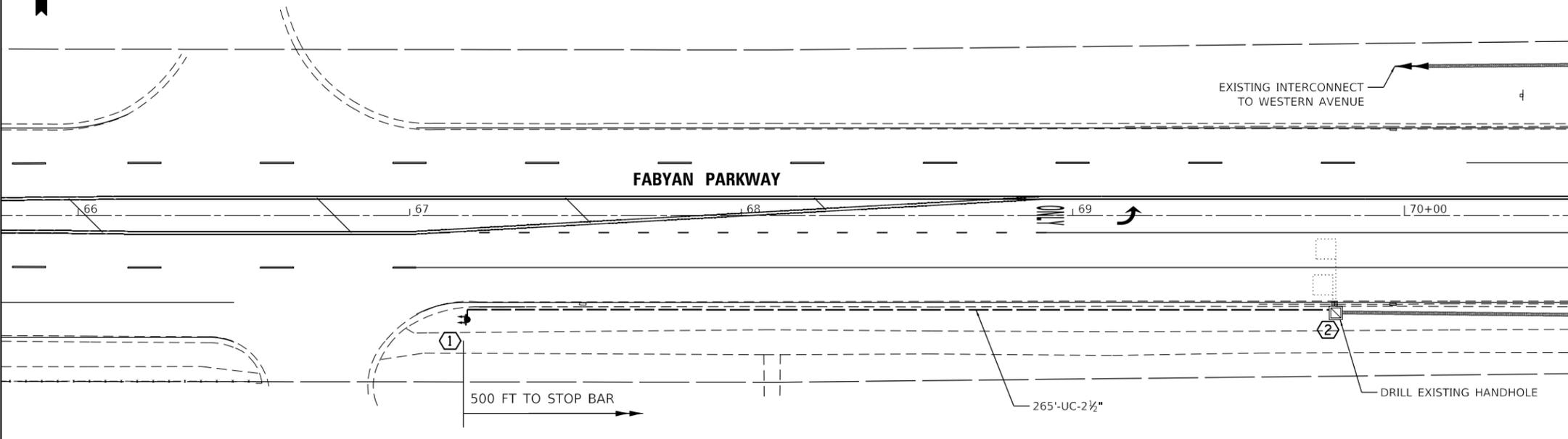
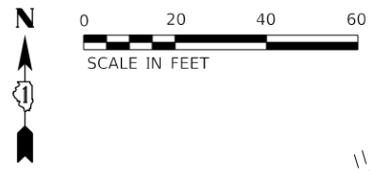
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AT IL ROUTE 31**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 36
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	

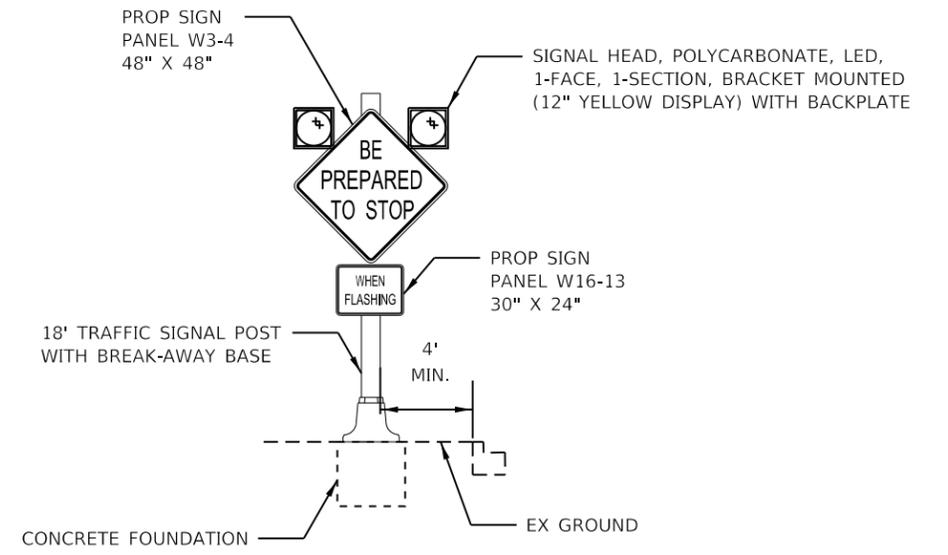
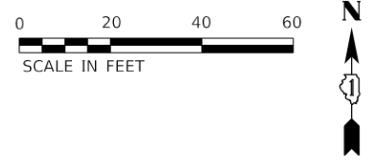
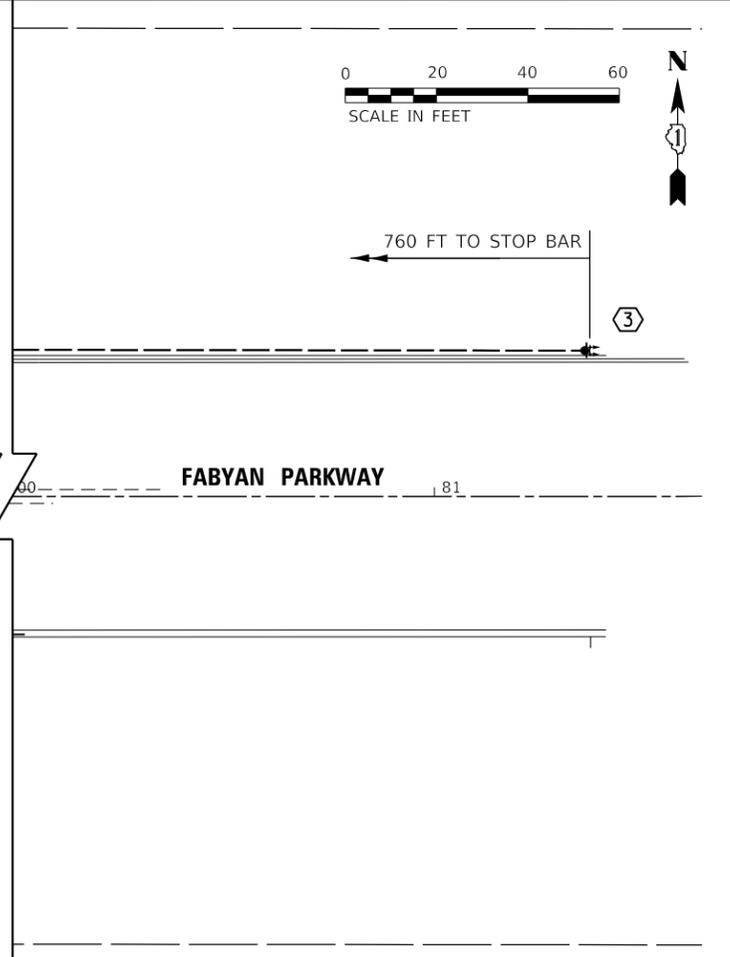
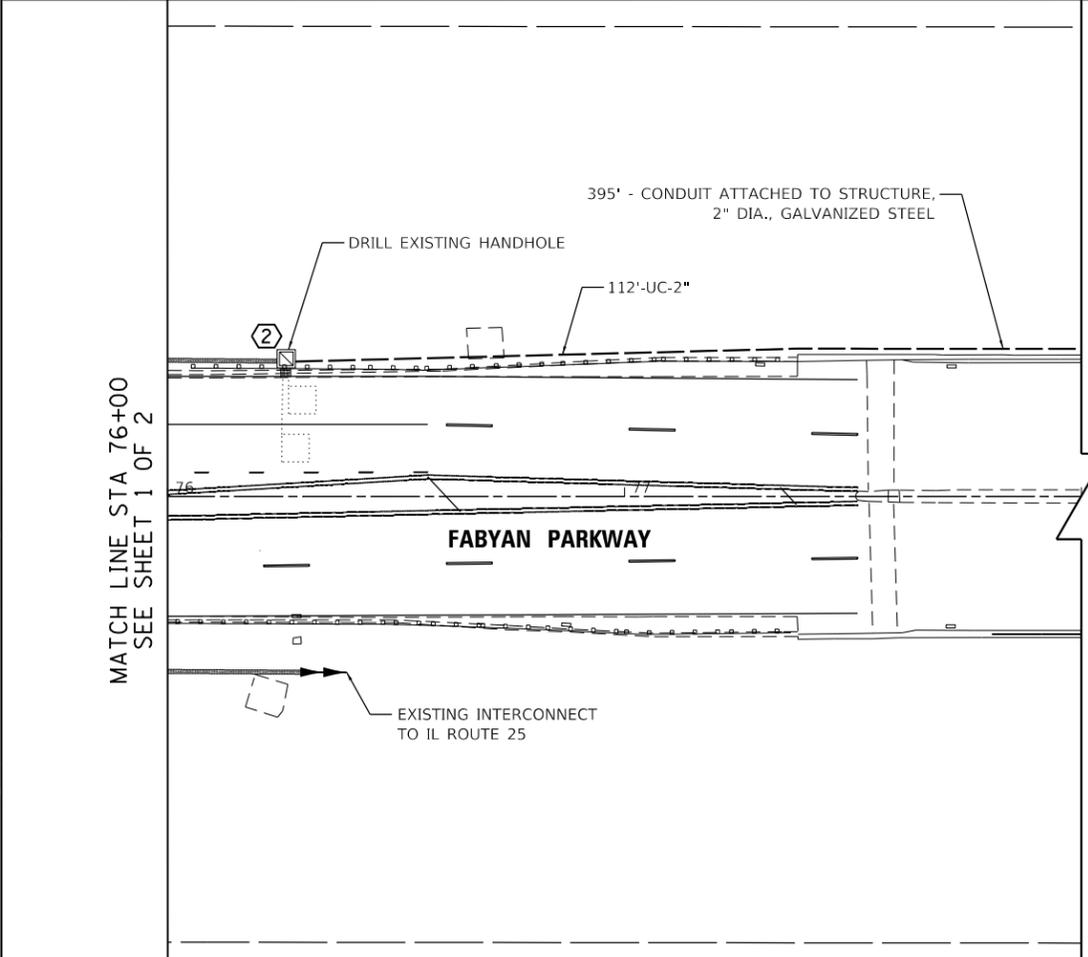
TS 825



MATCH LINE STA 70+50
SEE SHEET 1 OF 2

CONSTRUCTION NOTES

- ① INSTALL TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18' AT APPROXIMATELY STA 67+18, O/S 31' RT WITH BREAK-AWAY BASE. INSTALL TWO FLASHING BEACONS (SIGNAL HEAD, POLYCARBONATE, LED, 1-SECTION), BRACKET MOUNTED WITH BACKPLATES. RUN NEW CABLES TO CONTROL CABINET.
- ② EXISTING HANDHOLE TO REMAIN. CORE HANDHOLE FOUNDATION CONDUIT OPENINGS FOR 2" GALVANIZED STEEL CONDUIT. SEAL WITH MORTAR ONCE NEW 2" GALVANIZED STEEL CONDUIT IS PLACED. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF 2.5" GALVANIZED STEEL CONDUIT.
- ③ INSTALL TWO FLASHING BEACONS (SIGNAL HEAD, POLYCARBONATE, LED, 1-SECTION), BRACKET MOUNTED WITH BACKPLATE TO EXISTING LIGHT POLE AT APPROXIMATELY STA 81+34, O/S LT ON STRUCTURE. RUN NEW CABLES TO CONTROL CABINET.



**SIGNAL POST MOUNTED
ADVANCED WARNING FLASHERS (AWF) / BEACONS**

1. YELLOW FLASHING BEACONS SHALL BE ACTIVATED IN ADVANCE OF STEADY YELLOW AND RED SIGNAL INDICATIONS FOR FABYAN PARKWAY THROUGH PHASES. WHEN ACTIVATED, YELLOW BEACONS SHALL FLASH IN AN ALTERNATING, WIG-WAG PATTERN.
2. PROPOSED SIGNS TO BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT. REFER TO PAVEMENT MARKING AND SIGNING PLANS FOR ADDITIONAL INFORMATION.
3. BREAK-AWAY BASE SHALL BE INCLUDED IN THE COST OF TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18'.
4. ALL SIGN PANELS SHALL BE INSTALLED WITH STIFFENING SIGN CHANNELS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

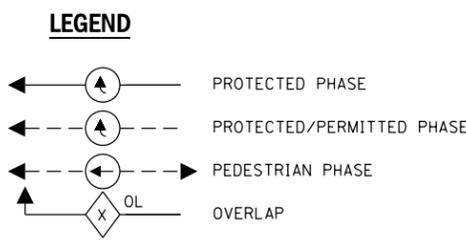
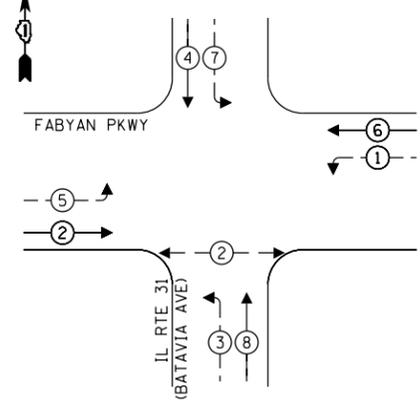
TRAFFIC SIGNAL MODIFICATION PLAN
FABYAN PARKWAY AT IL ROUTE 31

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. TO STA.

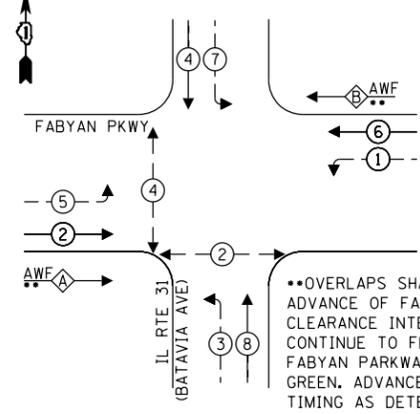
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CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				

TS 825

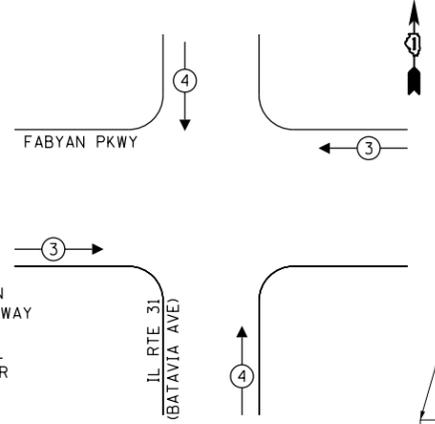
EXISTING CONTROLLER SEQUENCE



PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



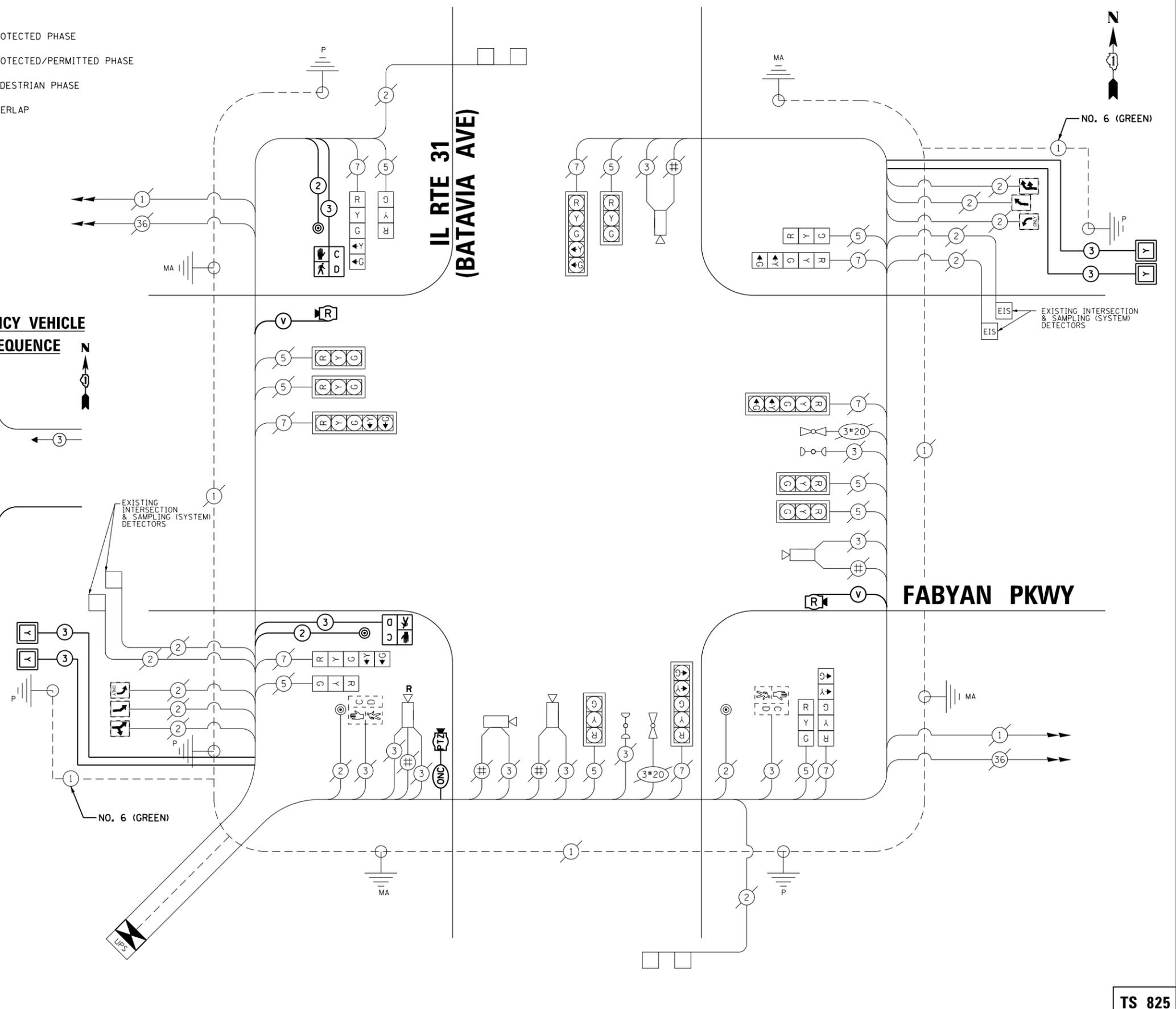
••OVERLAPS SHALL RUN IN ADVANCE OF FABYAN PARKWAY CLEARANCE INTERVAL AND CONTINUE TO FLASH UNTIL FABYAN PARKWAY CIRCULAR GREEN. ADVANCED TIMING AS DETERMINED BY RE-OPT LEVEL 2.

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
ILLUMINATED SIGN	6	120	50	360.0
TOTAL =				945.2

ENERGY COSTS - BILLED TO:
 (ADDRESS) IDOT, DIVISION OF HIGHWAYS
200 WEST CENTER COURT
SCHAUMBURG, IL 60194

ENERGY SUPPLY - CONTACT: MIKE WIDHALM
 PHONE: (847) 608-2376
 COMPANY: COMMONWEALTH EDISON



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	DATE - 01/13/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**CABLE PLAN AND PHASE DESIGNATION DIAGRAM
 FABYAN PARKWAY AT IL ROUTE 31**

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 38
CONTRACT NO. 61G91			ILLINOIS FED. AID PROJECT	

TS 825

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	211
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3477
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH BUTTON	EACH	2
PEDESTRIAN SIGNAL POST, 10-FT	EACH	1
PEDESTRIAN SIGNAL POST, 5-FT	EACH	1
CONCRETE FOUNDATION, TYPE A, 12-INCH DIAMETER	FOOT	8
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA	FOOT	265
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
OUTDOOR NETWORK RATED CABLE	FOOT	63
RADAR VEHICLE DETECTION SYSTEM	EACH	1
DOUBLE HANDHOLE TO BE ADJUSTED	EACH	1
DRILL EXISTING HANDHOLE	EACH	4
REOPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1

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TS 825



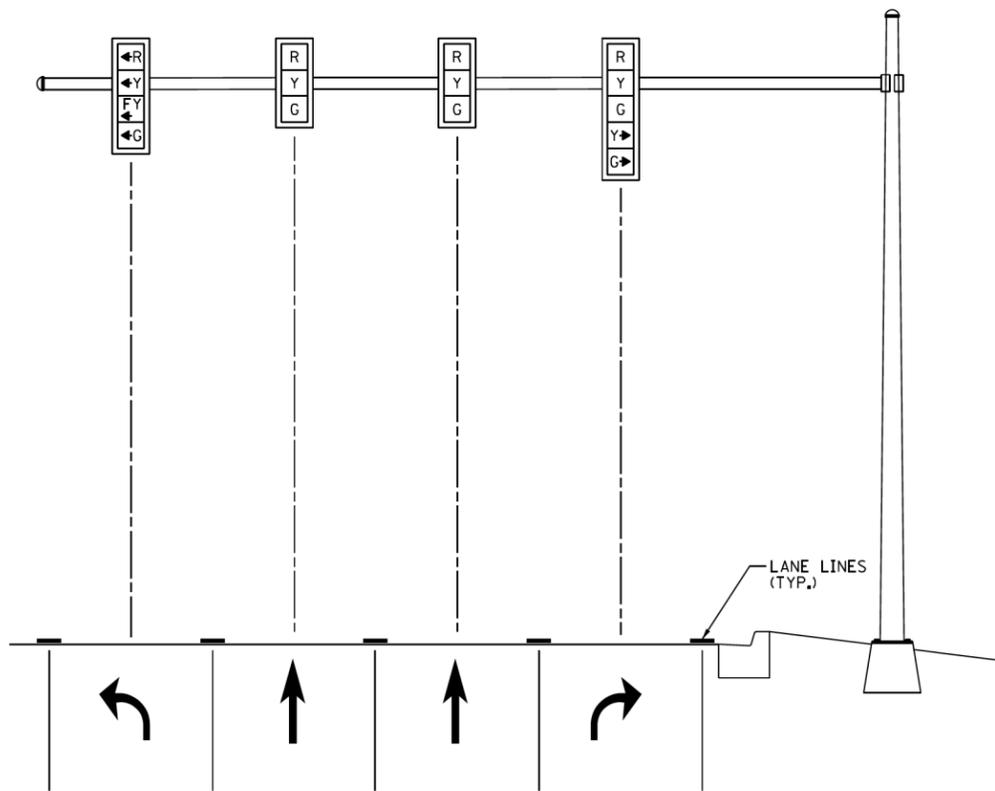
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

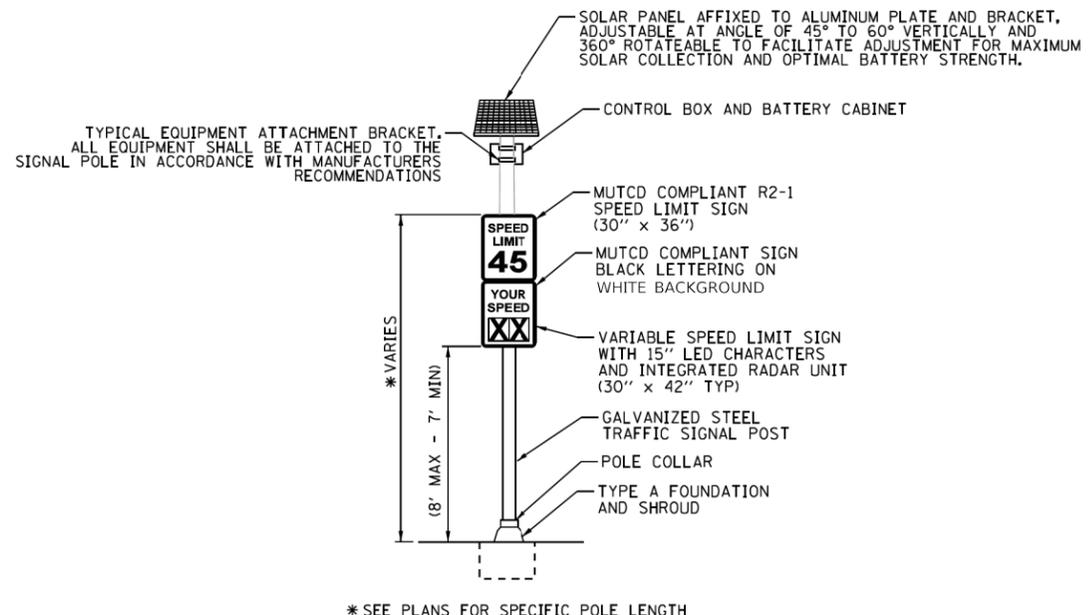
**CABLE PLAN AND PHASE DESIGNATION DIAGRAM
FABYAN PARKWAY AT IL ROUTE 31**

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

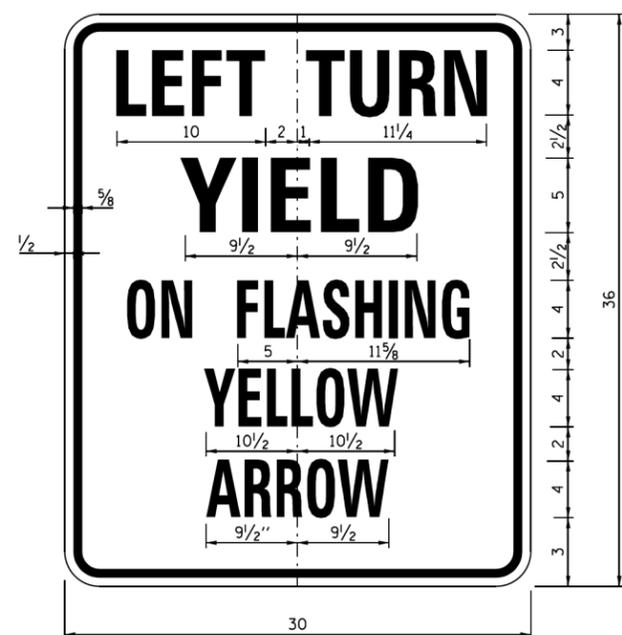
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 336	18-00493-00-5P	KANE	46	39
			CONTRACT NO. 61G91	
			ILLINOIS FED. AID PROJECT	



STANDARD MAST ARM SIGNAL HEAD ALIGNMENT
(NOT TO SCALE)
ORCHARD ROAD CORRIDOR



STANDARD CMS SPEED LIMIT SIGN ASSEMBLY DETAIL (SOLAR POWERED)
(NOT TO SCALE)
* SEE PLANS FOR SPECIFIC POLE LENGTH



- NOTES:**
- COLOR:
BACKGROUND: WHITE
MESSAGE: BLACK
 - LINE 1 IS SERIES C
LINE 2, 4 AND 5 ARE SERIES D
LINE 3 IS SERIES B
 - ALL DIMENSIONS SHOWN ARE IN INCHES
 - FYA SIGN TO BE INSTALLED WITH EACH FYA SIGNAL HEAD.

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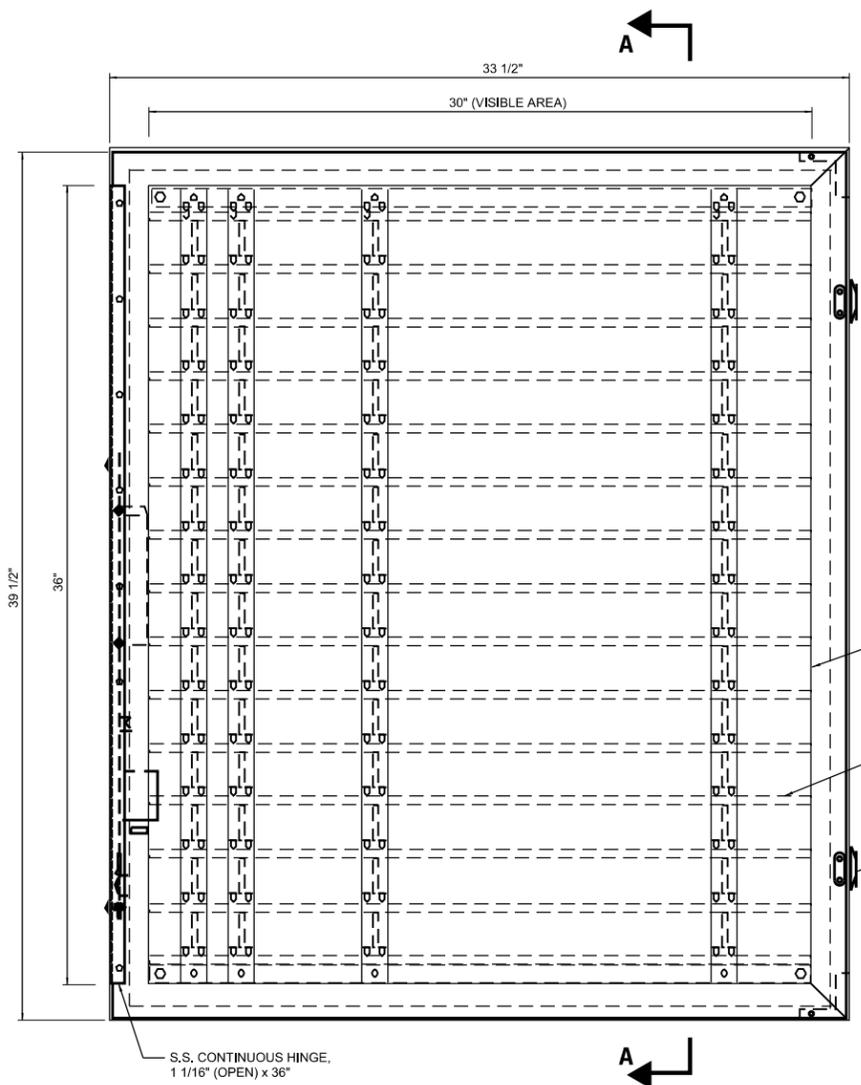


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
MICELLANEOUS DETAILS
SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
363 336	18-00493-00-5P	KANE	46	40
CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				



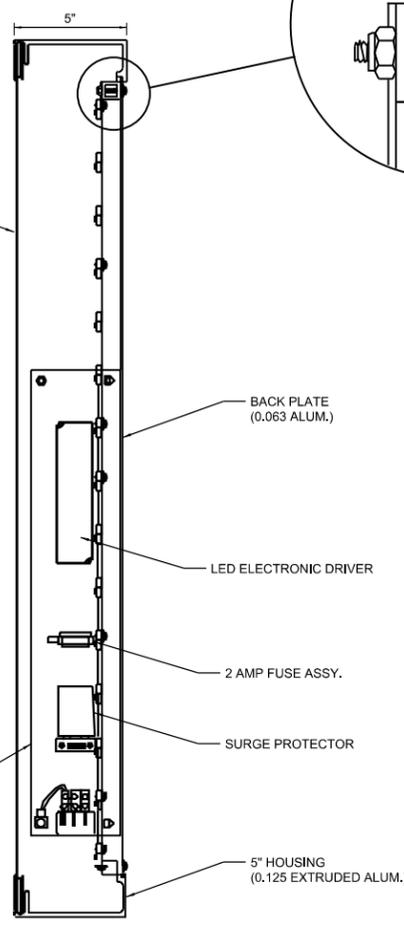
FACE, 0.125 THK CLEAR POLYCARBONATE

STD. DOOR (0.100 EXTRUDED ALUM.)

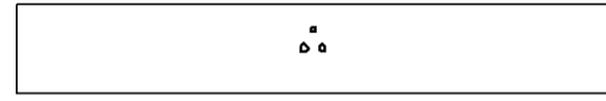
HIGH INTENSITY WHITE LED GRID ASSYS.

1/4 - TURN S.S. LINK LOCKS

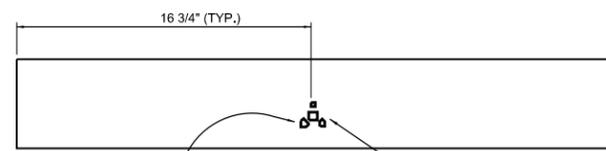
S.S. CONTINUOUS HINGE, 1 1/16\" (OPEN) x 36\"



SECTION A-A

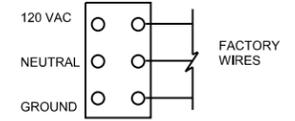


TOP VIEW (NOT TO SCALE)



BOTTOM VIEW (NOT TO SCALE)

3/8\" DIA. DRILL, 3 PLACES DRILLED TO MATCH BRACKET FOR MAST ARM MOUNT.



TERMINAL STRIP CONNECTION

NOTES:

- SIGN FACE SHALL BE 0.125\" THK. POLYCARBONATE AND BACKLIT BY HIGH INTENSITY WHITE LED GRID ASSYS.
- POWER REQUIREMENTS - 120 VAC.
- FACE COLORS:
LEGEND AND BORDER - NON REFLECTIVE BLACK (OPAQUE)
BACKGROUND - REFLECTIVE WHITE (TRANSLUCENT)
- HOUSING SHALL BE DRILLED TOP AND BOTTOM FOR BRACKET. 1/2\" DIA. HOLE PROVIDED IN BOTTOM OF HOUSING FOR WIRE ENTRANCE.
- SIGN SHALL BE FULLY GASKETED AND WATERTIGHT.
- HINGE AND FASTENERS SHALL BE STAINLESS STEEL.
- SIGN SHALL BE EQUIPPED WITH FOUR 3/16\" DIA. DRAIN HOLES LOCATED IN THE BOTTOM CORNERS OF THE HOUSING.
- HOUSING COLORS:
INTERIOR OF HOUSING - PAINTED WHITE ENAMEL FINISH
EXTERIOR OF HOUSING ASSY. - PAINTED SEMI-GLOSS BLACK ENAMEL FINISH.
- APPROX. WEIGHT OF SIGN AND ALL COMPONENTS - 50 LBS

EXISTING ILLUMINATED SIGN PANEL LEGEND (CONTRACTOR TO COORDINATE WITH KANE COUNTY FOR RETROFIT TO LED)

(NOT TO SCALE)



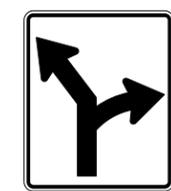
EXISTING SIGN PANEL A:
LED INTERNALLY ILLUMINATED SIGN (R3-5L)
30\" X 36\"



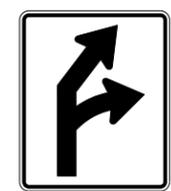
EXISTING SIGN PANEL B: LED INTERNALLY ILLUMINATED SIGN (SKEWED THROUGH ARROW - RIGHT OR LEFT) 30\" X 36\"



EXISTING SIGN PANEL C:
LED INTERNALLY ILLUMINATED SIGN (SKEWED THROUGH AND RIGHT ARROW)
30\" X 36\" (TYPE 1)



EXISTING SIGN PANEL D: LED INTERNALLY ILLUMINATED SIGN (SKEWED THROUGH AND RIGHT ARROW)
30\" X 36\" (TYPE 2)



EXISTING SIGN PANEL D: LED INTERNALLY ILLUMINATED SIGN (SKEWED THROUGH AND RIGHT ARROW)
30\" X 36\" (TYPE 2)

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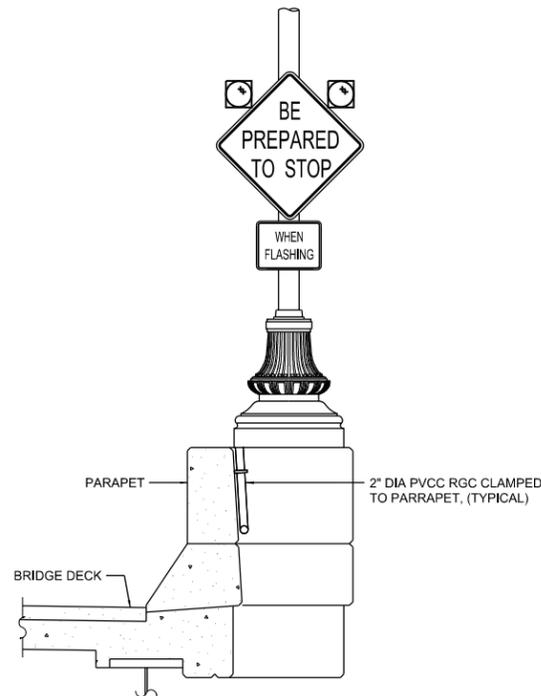
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

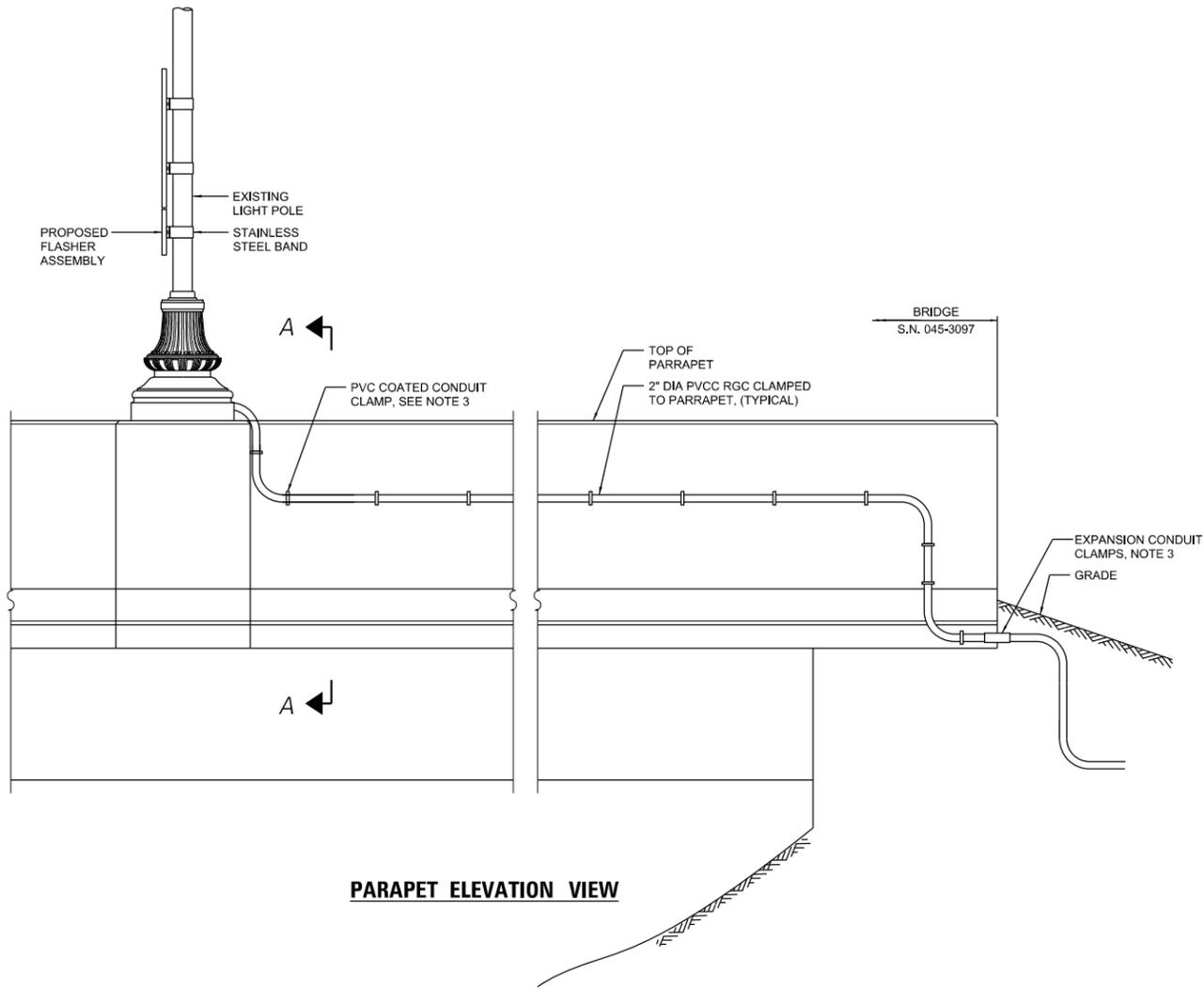
KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)
MICELLANEOUS DETAILS

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61G91				
ILLINOIS FED. AID PROJECT				



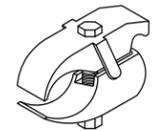
SECTION A-A



PARAPET ELEVATION VIEW

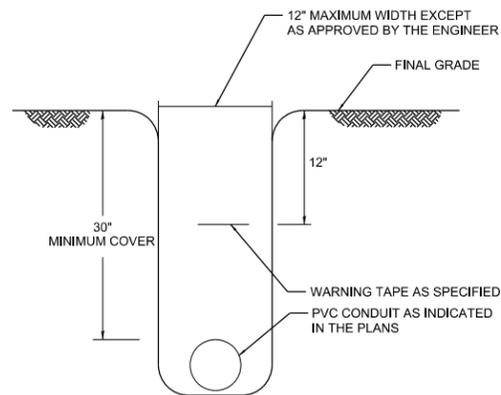


PVC COATED CONDUIT CLAMP

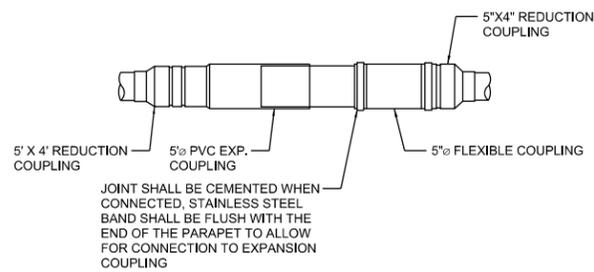


PVC COATED CONDUIT BEAM CLAMP

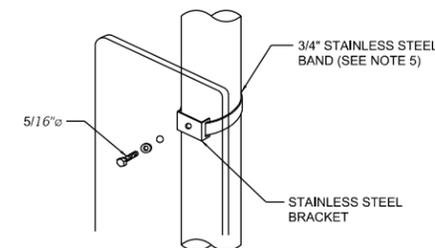
DETAIL B



TYPICAL CONDUIT IN TRANCH DETAIL



INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT



LIGHT POLE/SIGN STRUCTURE MOUNT DETAIL

NOTES

1. THE CONDUIT SHALL BE PVC PIPE, SCH. 40 MINIMUM WALL.
2. THE MAXIMUM SINGLE CONDUIT DIAMETER SHALL BE A STANDARD 2 IN.
3. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM SEE DETAIL B.
4. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC).
5. FOLLOWING ARE THE STEPS FOR FASTENING THE MILEPOST MARKER SIGN PANEL. ALL MOUNTING DETAILS SHOWN ON THIS SHEET APPLY:
 - a. CENTER ALL FASTENERS ON THE SIGN PANEL
 - b. START AND FINISH THE FASTENER SPACING USING A MINIMUM OF 3" TO A MAXIMUM OF 6" FROM THE TOP AND BOTTOM EDGE OF THE SIGN PANEL.
 - c. THE DISTANCE BETWEEN SUCCESSIVE FASTENERS SHALL NOT EXCEED 2'-0".

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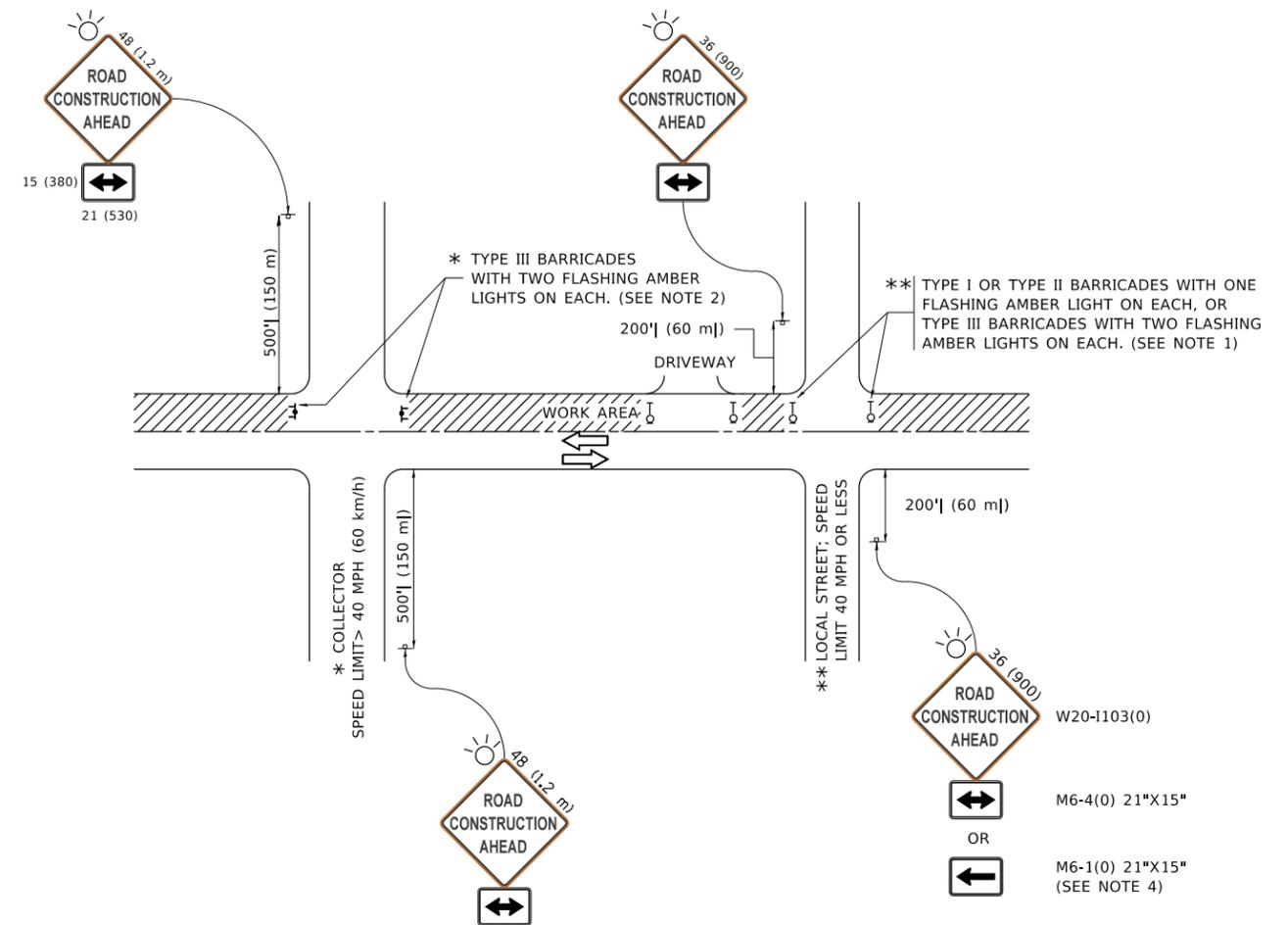


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	DATE - 01/13/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

KDOT 2018 HIGHWAY SAFETY IMPROVEMENT PROJECT (HSIP)			
MISCELLANEOUS DETAILS			
SCALE: N.T.S.	SHEET 3 OF 3 SHEETS	STA.	TO STA.

F.A.P. RTE. 363/336	SECTION 18-00493-00-5P	COUNTY KANE	TOTAL SHEETS 46	SHEET NO. 42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G91	



NOTES:

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

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

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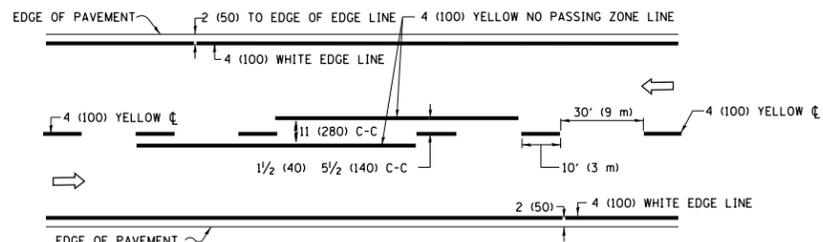
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

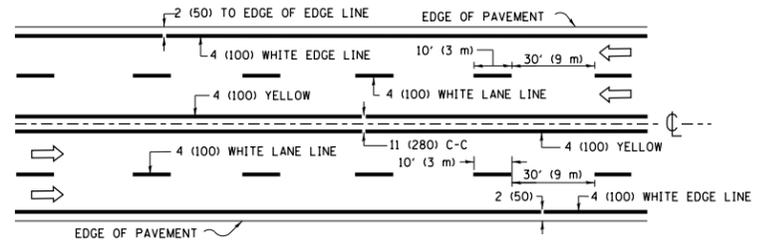
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SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

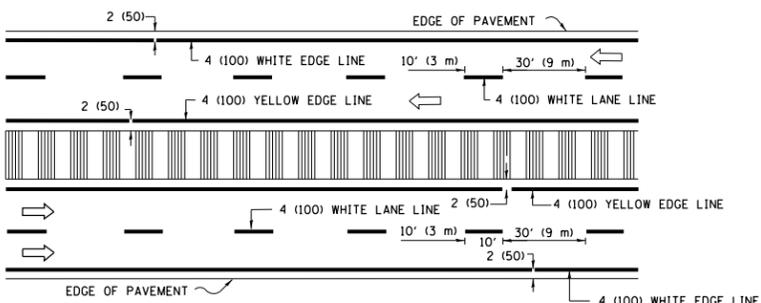
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TC-10			CONTRACT NO. 61G91	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

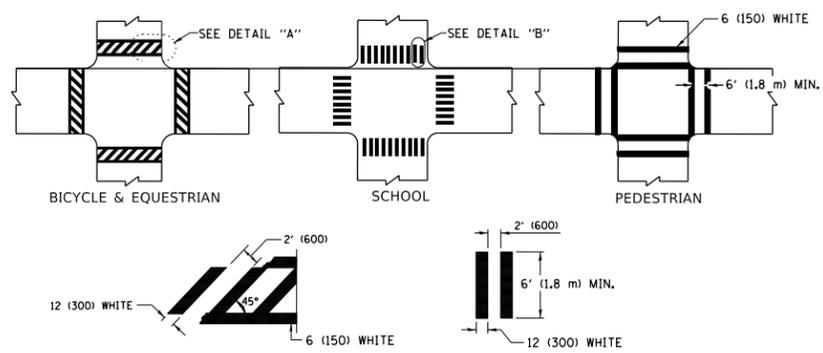


MULTI-LANE UNDIVIDED



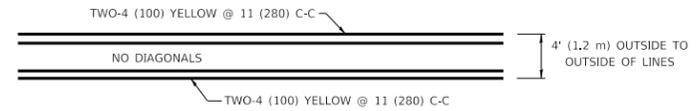
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

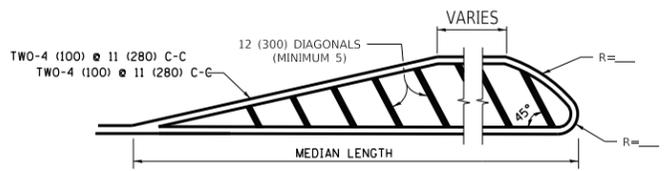


TYPICAL CROSSWALK MARKING

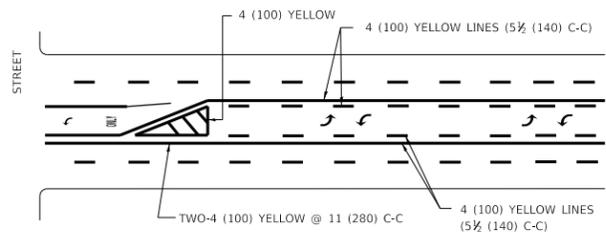
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



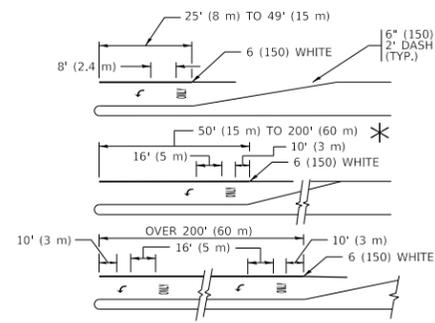
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



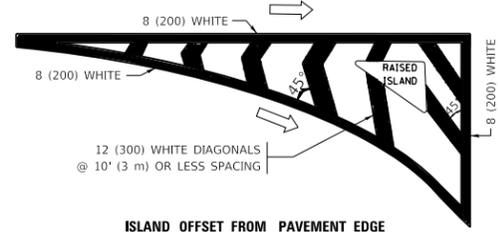
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



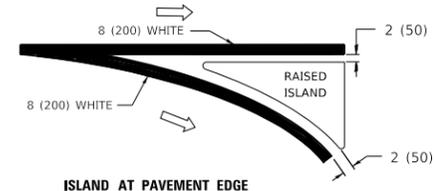
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

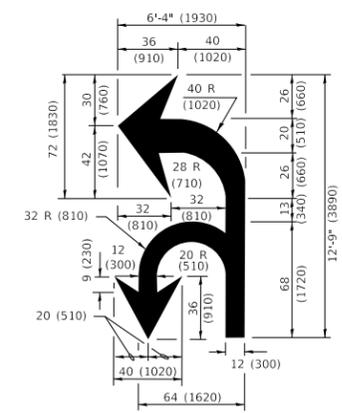


ISLAND OFFSET FROM PAVEMENT EDGE

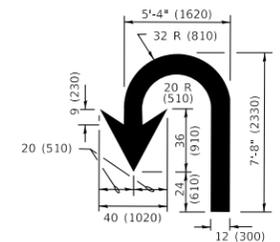


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 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: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-13		CONTRACT NO. 61G91		
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

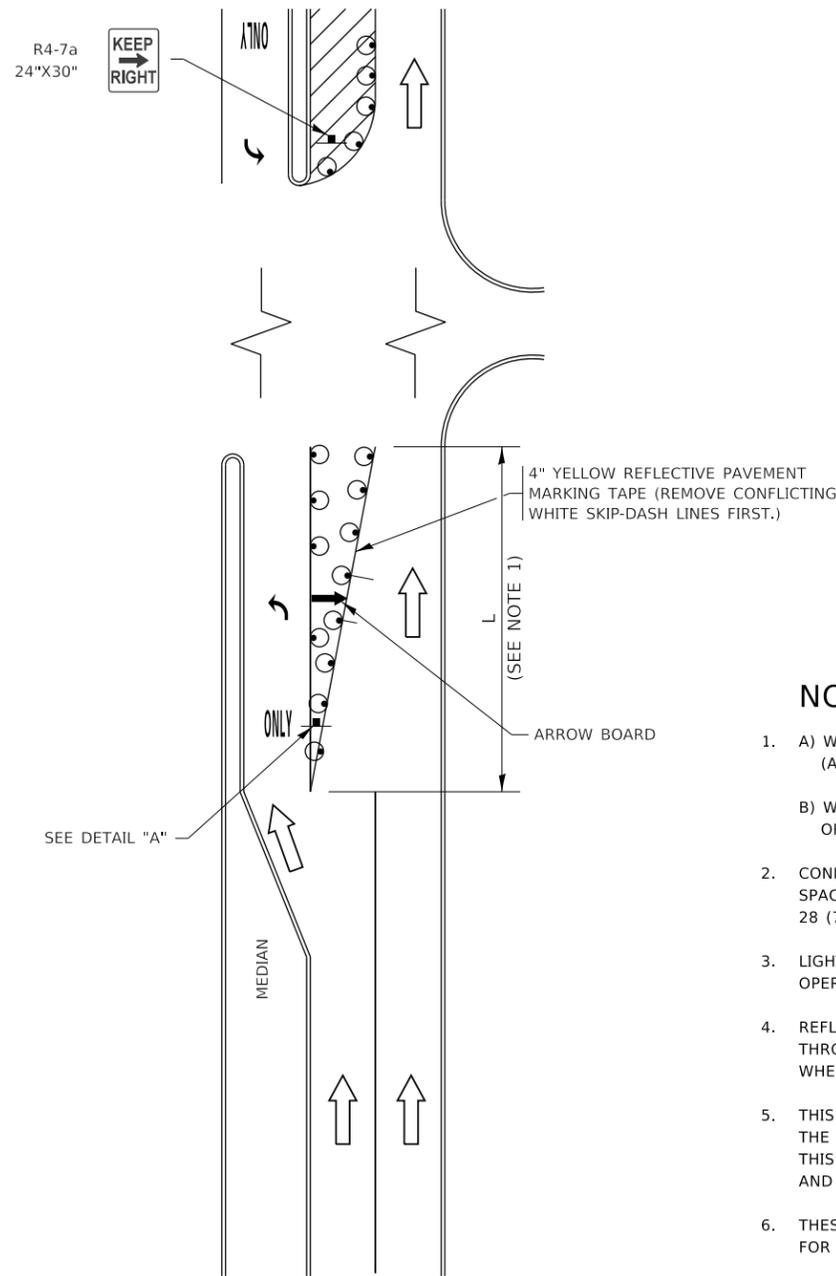


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

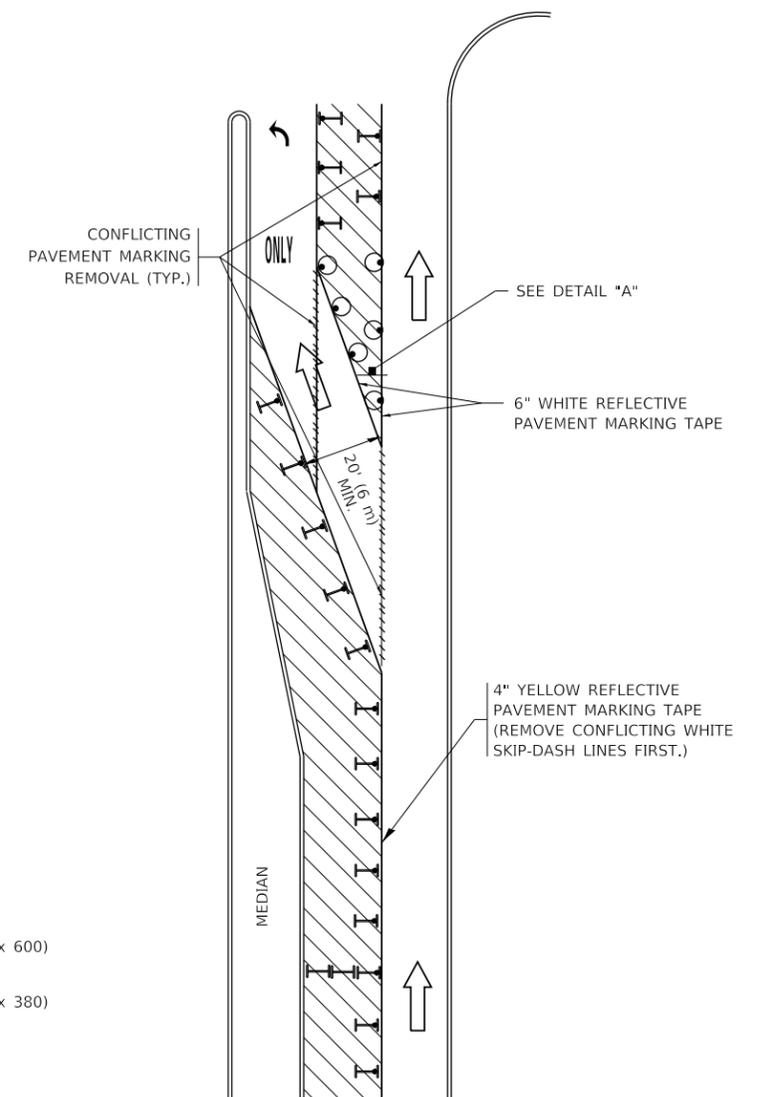
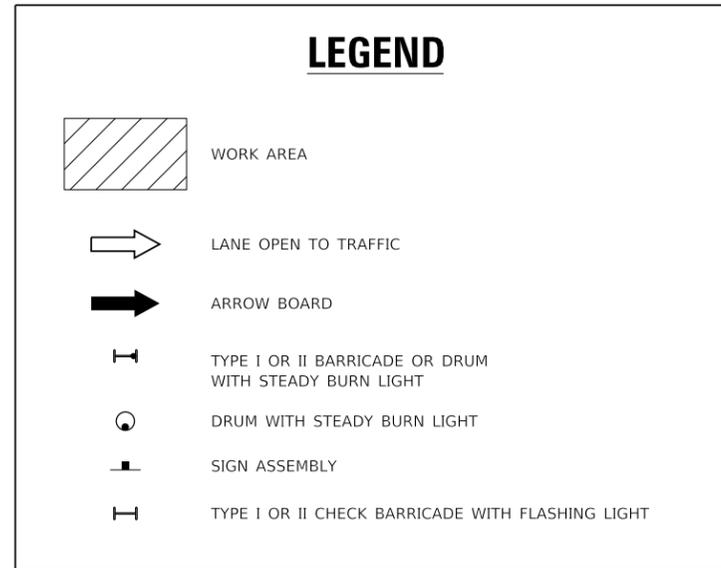
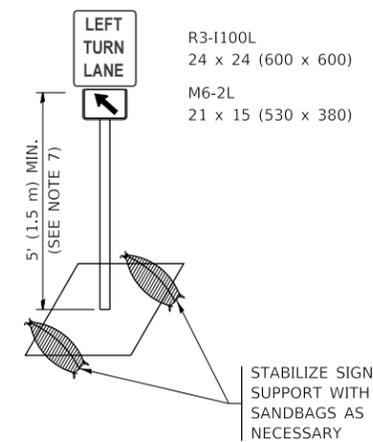


FIGURE 2



NOTES:

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



DETAIL A

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

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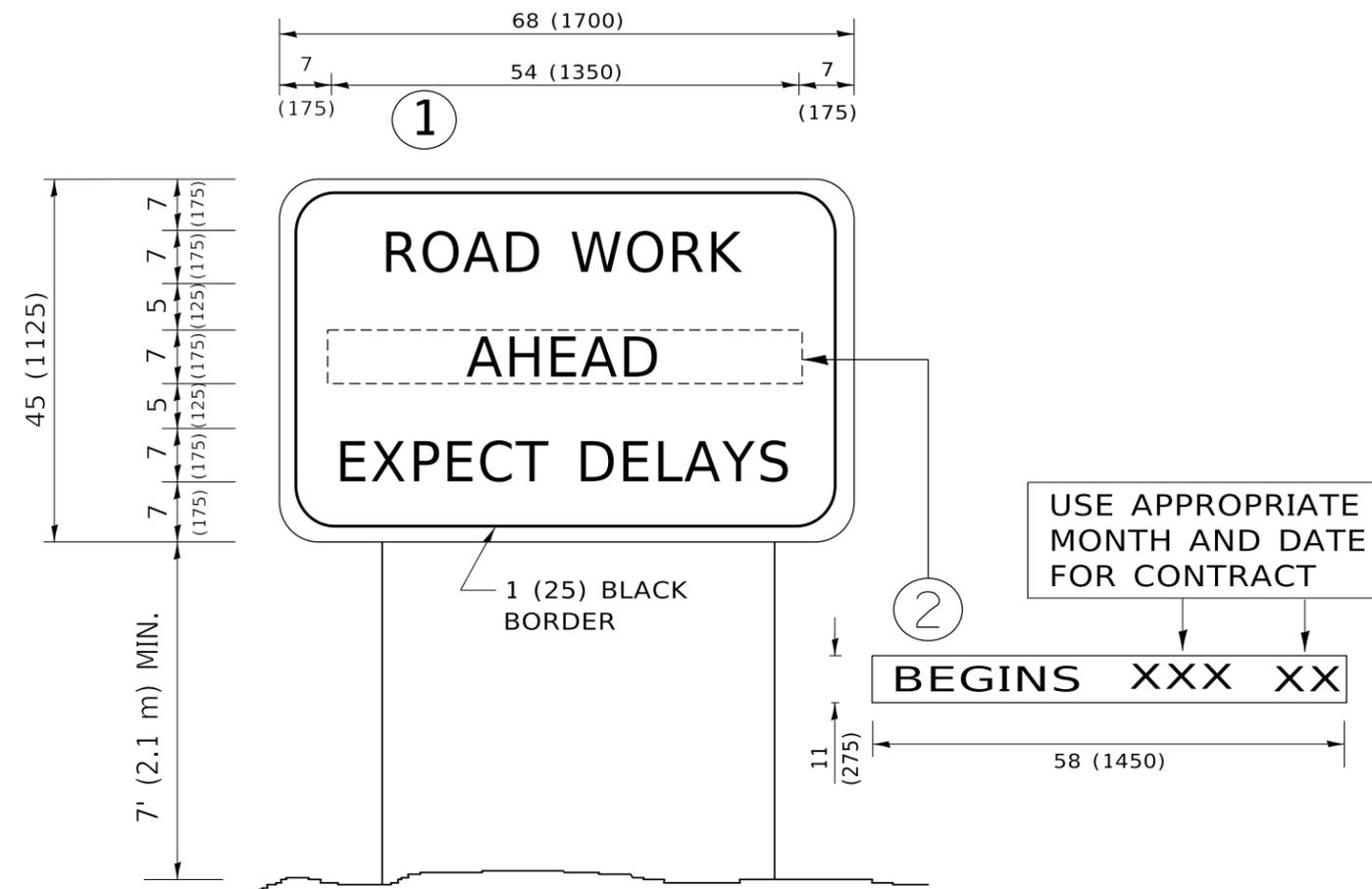
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00493-00-SP	KANE	46	45
	TC-14		CONTRACT NO. 61G91	
		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.

MODEL: D:\draft...
 FILE NAME: p:\u1108\BEBIDN\TEG...
 PROJECT: D:\draft...

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00493-00-SP	KANE	46	46
TC-22			CONTRACT NO. 61G91	
ILLINOIS FED. AID PROJECT				