

04-27-2018 LETTING ITEM 112

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	* 53	1
		ILLINOIS	CONTRACT NO. 62C15	

D-91-281-16

*53+2 = 55 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN
THE VILLAGE OF SCHAUMBURG

PROPOSED HIGHWAY PLANS

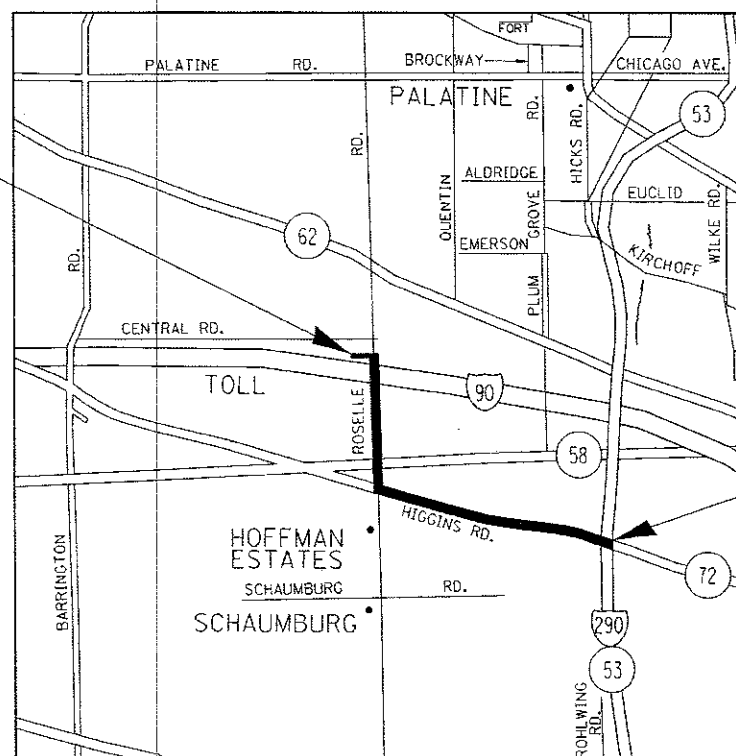
FAP 342, 339
IL RTE 72 (HIGGINS RD), ROSELLE RD
SECTION 2016-0061
IDOT DISTRICT 1 HEADQUARTERS ALTERNATE FIBER ROUTE
FIBER OPTIC CABLE AND PTZ CAMERA INSTALLATION
COOK COUNTY

C-91-281-16

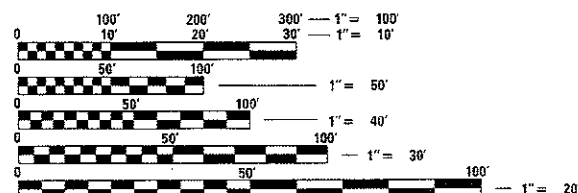
PROJECT NHPP-YXNE(543)



BEGIN PROJECT
IDOT DISTRICT 1 HEADQUARTERS



END PROJECT
IL RTE 72 AT I-290



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: IOVAN PLASCENCIA 847-705-4504
PROJECT MANAGER: ROLAND TOMSONS 847-705-4372

CONTRACT NO. 62C15

GROSS LENGTH = 22,200 FT. = 4.21 MILE
NET LENGTH = 22,200 FT. = 4.21 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Feb 8 2018*
Anthony Chaffey
REGIONAL ENGINEER

Mar 23 2018
E.A. ETS
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 23 2018
David P. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHT. NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6	SYMBOLS LEGEND DETAIL
7-16	PROPOSED IDOT DISTRICT 1 HQ ALTERNATE FIBER ROUTE PLANS
17	CONDUIT ATTACHED TO STRUCTURE DETAIL
18	IDOT DISTRICT 1 HEADQUARTERS BUILDING DETAIL
19	EXISTING FIBER OPTIC INFRASTRUCTURE - IDOT DISTRICT 1 HEADQUARTERS
20-24	FIBER SPLICING DIAGRAM
25-32	FIBER ASSIGNMENTS
33-43	TRAFFIC SIGNAL PLANS -IL RTE 58 (GOLF RD) AT ROSELLE RD -IL RTE 72 (HIGGINS RD) AT ROSELLE RD -IL RTE 72 (HIGGINS RD) AT MEACHAM RD
44	COMMUNICATION VAULT DETAIL SHEET (BE-705)
44A	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
44B	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
45	ARTERIAL ROAD INFORMATION SIGN (TC-22)
46-53	TOLLWAY HIGHWAY STANDARDS -CONSTRUCTION SIGNS (E1-06) -LANE CLOSURE DETAILS (E2-07) -SHOULDER CLOSURE DETAILS (E3-06) -TEMPORARY GORE DETAILS (E5-06)

HIGHWAY STANDARDS

STD. NO.	TITLE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN LANE CLOSURE, MULTILANE, SINGLE LANE CLOSURE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

GENERAL NOTES

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

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

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

RESTORATION OF THE WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

THIS PROJECT HAS RECEIVED AN IN-HOUSE ENVIRONMENTAL SIGN-OFF. ANY SOIL EXCAVATED SHALL REMAIN ON SITE. CONTRACTOR SHALL SPREAD THE SOIL AT THE SAME AREA FROM WHICH IT WAS EXCAVATED. THE GRADING SHALL BE DONE SO THAT THE EXISTING DITCH PROFILES AND WATER FLOW PATTERNS ARE MAINTAINED. THIS WORK SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, HANDHOLE, GRADING AND SHAPING DITCHES, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. FINAL GROUND SURFACE SHALL BE COVERED WITH TOPSOIL, SEED AND EROSION CONTROL BLANKET. THIS WORK IS SHALL BE PART OF THE RESTORATION OF THE WORK AREA.

THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.

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

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

MAINTENANCE OF TRAFFIC FOR ROSELLE RD SHALL BE RESTRICTED TO DAY-TIME TEMPORARY LANE CLOSURES UTILIZING THE APPLICABLE STATE STANDARDS INCLUDED IN THIS CONTRACT DURING OFF-PEAK PERIODS BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.

IF COORDINATION IS NECESSARY WITH RECENT CONTRACT I-13-4166 (ROSELLE RD OVER I-90 BRIDGE) AND/OR FUTURE CONTRACT 61E68 (ROSELLE RD BIKE PATH), CONTACT:

AARON LEBOWITZ EMAIL: AARON.LEBOWITZ@COOKCOUNTYIL.GOV
PHONE: (312) 603-1610

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	2
			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FEDERAL, 20% STATE			
				FIBER	IL RTE 58 @ ROSELLE RD	IL RTE 72 @ ROSELLE RD	IL RTE 72 @ MEACHAM RD
				ITS			
0043							
URBAN							
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CA MO	3	0.75	0.75	0.75	0.75
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25	0.25	0.25	0.25
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.25	0.25	0.25	0.25
81028230	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	110	110			
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	5,245	5,245			
81100900	CONDUIT ATTACHED TO STRUCTURE, 3 1/2" DIA., GALVANIZED STEEL	FOOT	260	260			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3		1	1	1
87900200	DRILL EXISTING HANDHOLE	EACH	3	3			
88500100	INDUCTIVE LOOP DETECTOR	EACH	11				11
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1				1
89502380	REMOVE EXISTING HANDHOLE	EACH	1	1			
X0320023	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	3		1	1	1

14

REV

LEGEND

(NOT TO SCALE)

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

IDOT DISTRICT 1 HEADQUARTERS

TO JUNCTION BOX (JB-HQ-01)
SEE SHEET 18 FOR ROUTING INSIDE
IDOT DISTRICT 1 HEADQUARTERS

ⓑ IN EX. 4" CONDUIT

CMV-HQ-06

(60')
ⓑ IN EX. 4" CONDUIT

CMV-HQ-05

ⓑ IN EX. 4" CONDUIT

(475')

SEE SHEET 19 FOR EXISTING
FIBER OPTIC INFRASTRUCTURE

IDOT DISTRICT 1 MATERIALS LAB

COMMUNICATION HUT

CMV-HQ-03

CMV-HQ-04

INTERSTATE 90

APPROX. EX. R.O.W.

(900')

Ⓐ

CMV-HQ-01

TO TOLLWAY VAULT

APPROX. EX. R.O.W.

ROSELLE RD

CMV-CHV60-02

Ⓐ IN 145'-UC-4"

Ⓐ IN 50'-UC-3/2"

CMV-CHV60-01

FO

INTERSTATE 90

APPROX. EX. R.O.W.

Ⓐ 2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-HQ-01
2	96F SM	DCF-HQ-01
3		
4		
5		
6		
7		

Ⓑ EXISTING DUCT	
CABLE	DESIGNATION
144F SM	TCF-HQ-01
96F SM	DCF-HQ-01

NOTES:

1. THE CONTRACTOR SHALL PERFORM THE FIBER DOCUMENTATION PER THE SPECIAL PROVISION "DOCUMENTATION OF EXISTING HO FIBER OPTIC CABLE SYSTEM" PRIOR TO THE INSTALLATION OF ANY PROPOSED FIBER OPTIC CABLE.

Ⓐ IN 260'-UC-3/2"
ATTACHED TO STRUCTURE
(SEE SHEET 17 FOR DETAIL)

Ⓐ IN 60'-UC-3/2"

MATCH LINE STA. 225+75
SEE SHEET 8

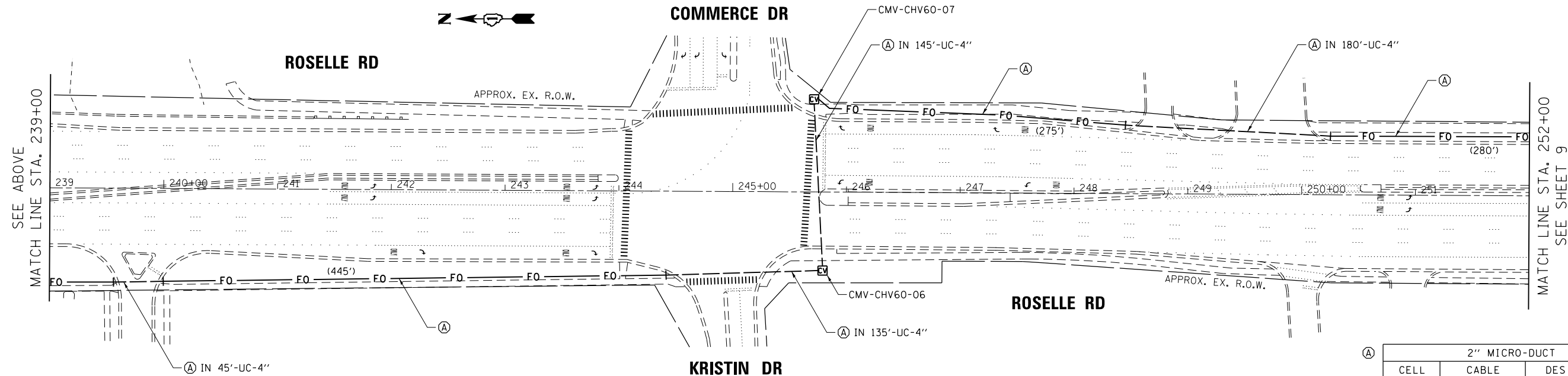
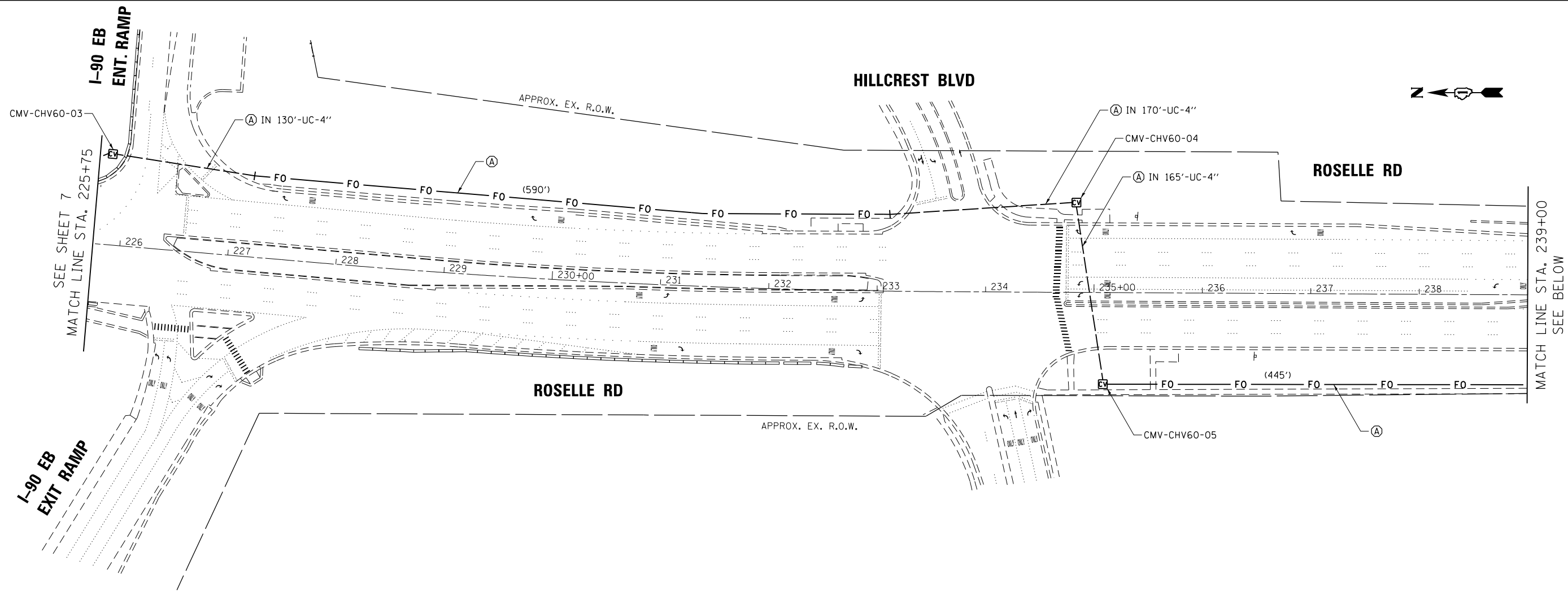
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 1 OF 10)
IDOT DISTRICT 1 HEADQUARTERS TO
IL RTE 72 (HIGGINS RD) & I-290**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	7
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



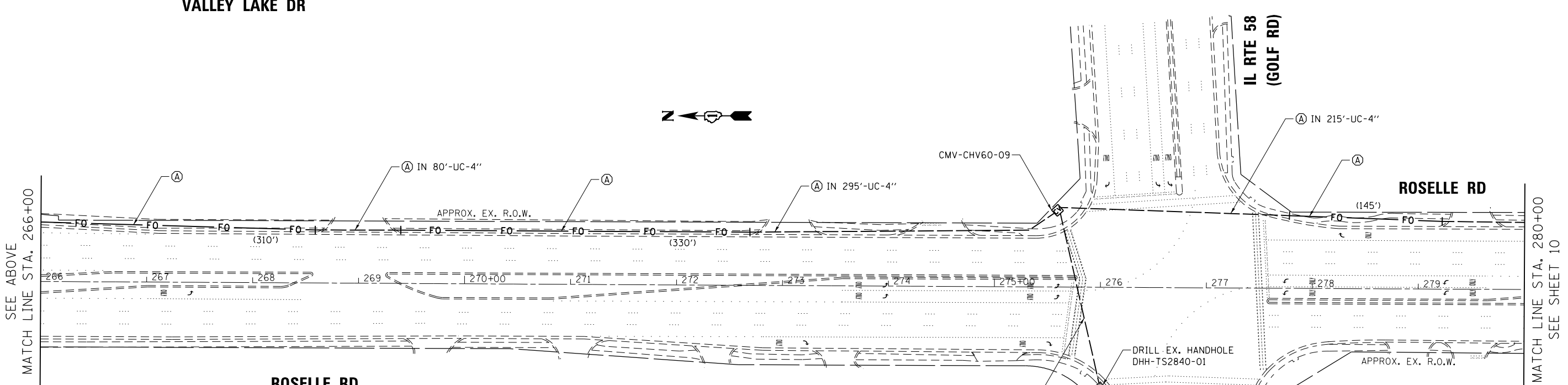
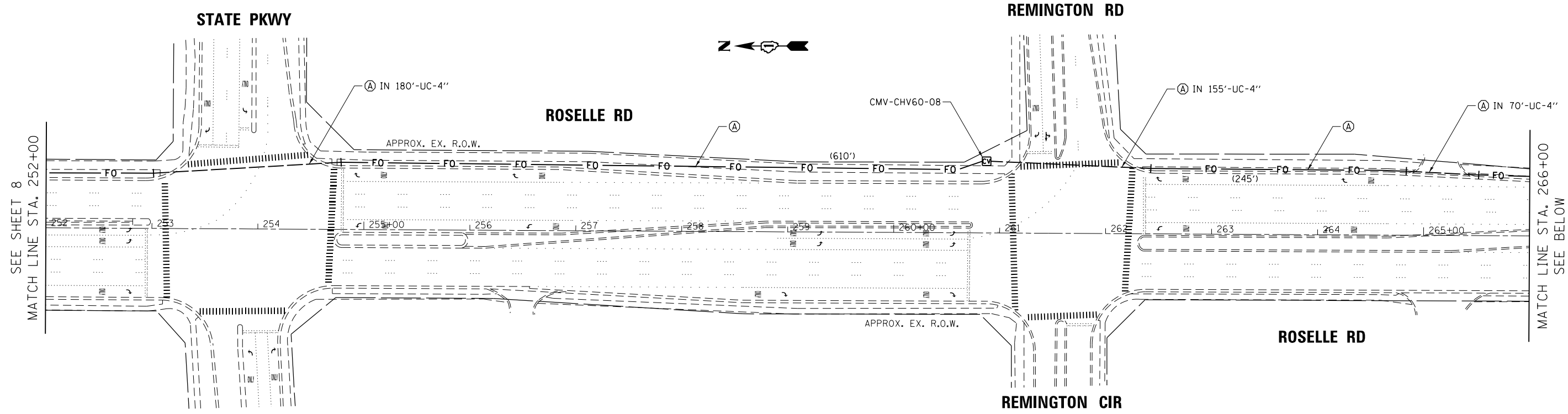
2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-HQ-01
2	96F SM	DCF-HQ-01
3		
4		
5		
6		
7		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 2 OF 10)			
IDOT DISTRICT 1 HEADQUARTERS TO IL RTE 72 (HIGGINS RD) & I-290			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2016-0061	COOK	53	8
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



(A) 2" MICRO-DUCT

CELL	CABLE	DESIGNATION
1	144F SM	TCF-HO-01
2	96F SM	DCF-HO-01
3		
4		
5		
6		
7		

(C) LATERAL

CABLE	DESIGNATION
24F SM	LCF-CHV60-01A

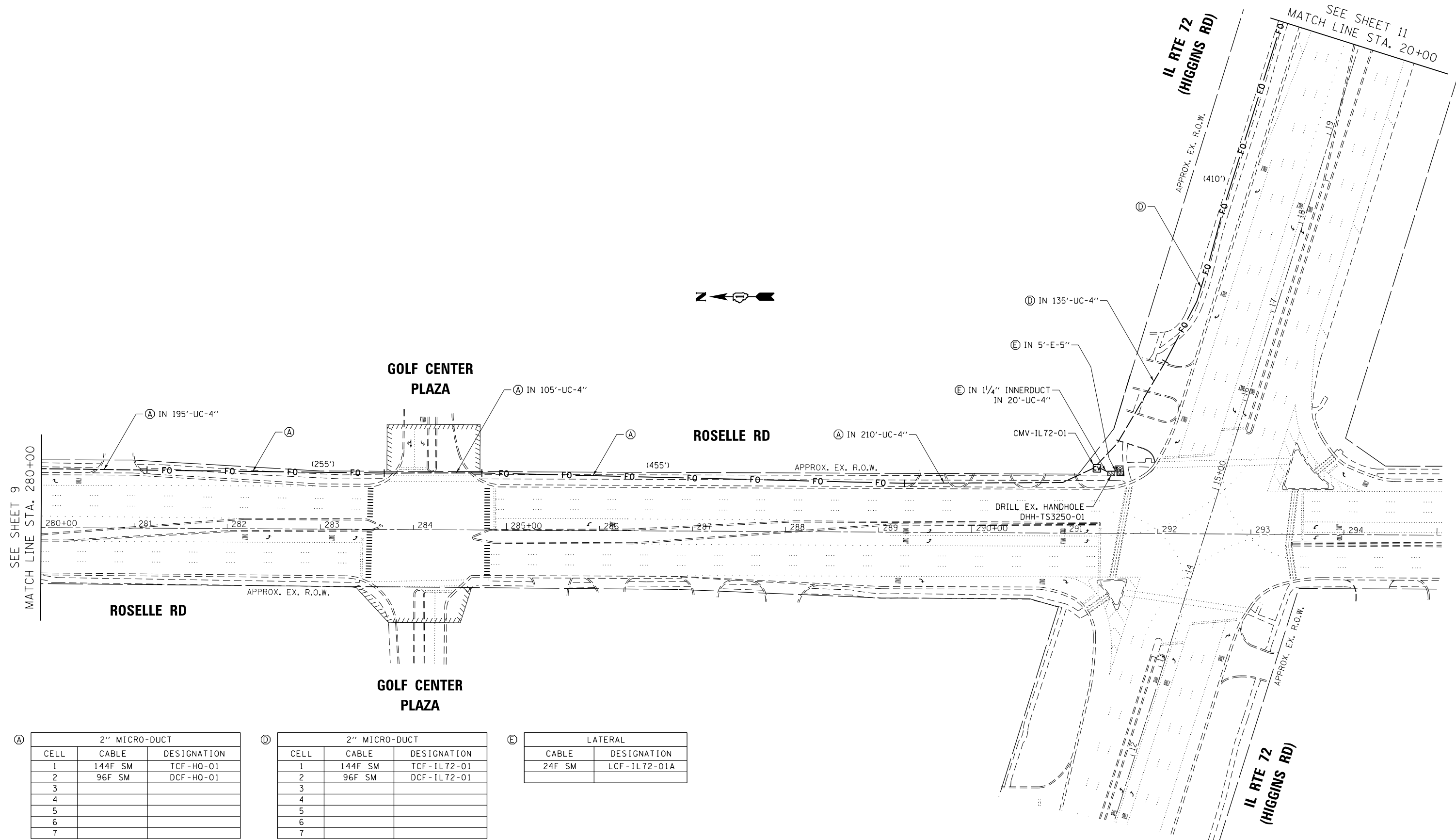
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 3 OF 10)
IDOT DISTRICT 1 HEADQUARTERS TO
IL RTE 72 (HIGGINS RD) & I-290**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	9
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



①

2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-HO-01
2	96F SM	DCF-HO-01
3		
4		
5		
6		
7		

②

2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-IL72-01
2	96F SM	DCF-IL72-01
3		
4		
5		
6		
7		

③

LATERAL	
CABLE	DESIGNATION
24F SM	LCF-IL72-01A

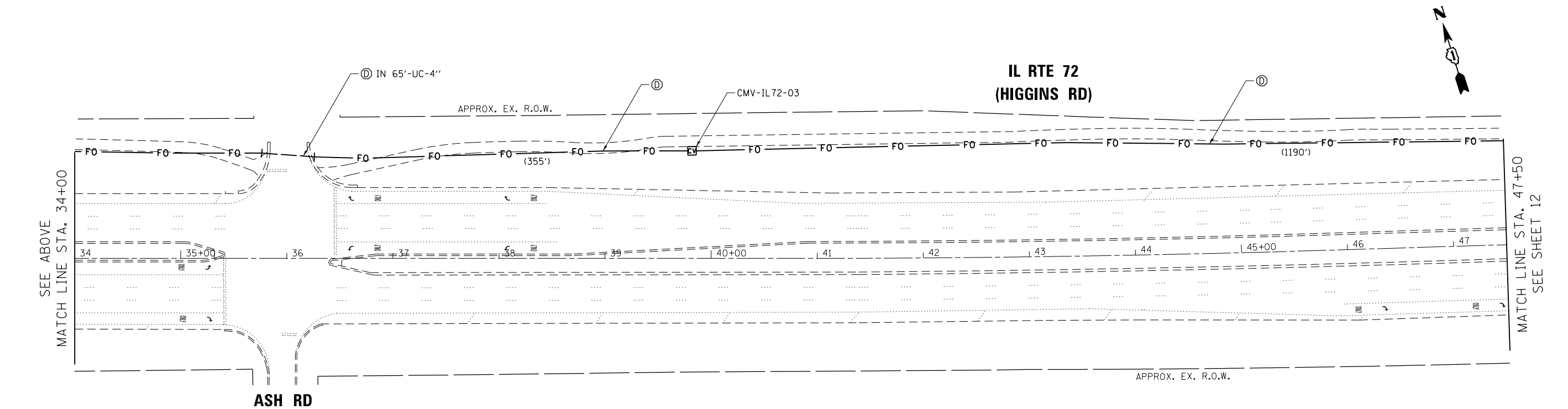
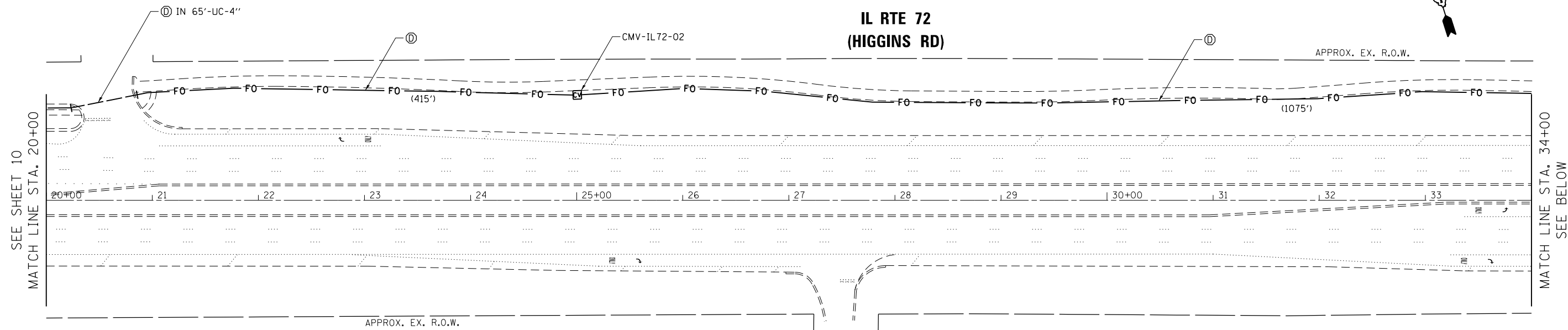
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 4 OF 10)
 IDOT DISTRICT 1 HEADQUARTERS TO
 IL RTE 72 (HIGGINS RD) & I-290

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	10
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



① 2" MICRO-DUCT

CELL	CABLE	DESIGNATION
1	144F SM	TCF-IL72-01
2	96F SM	DCF-IL72-01
3		
4		
5		
6		
7		

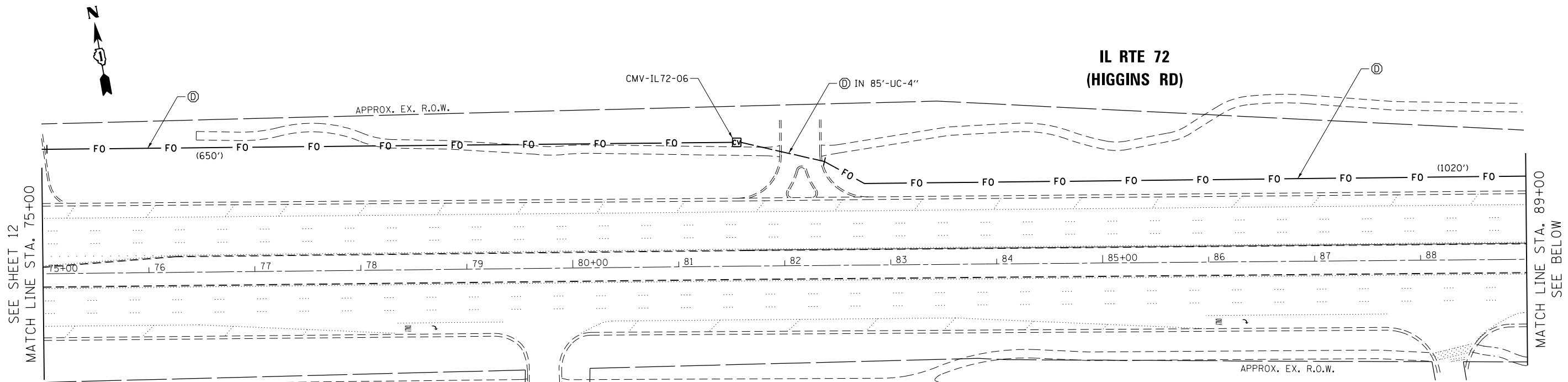
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

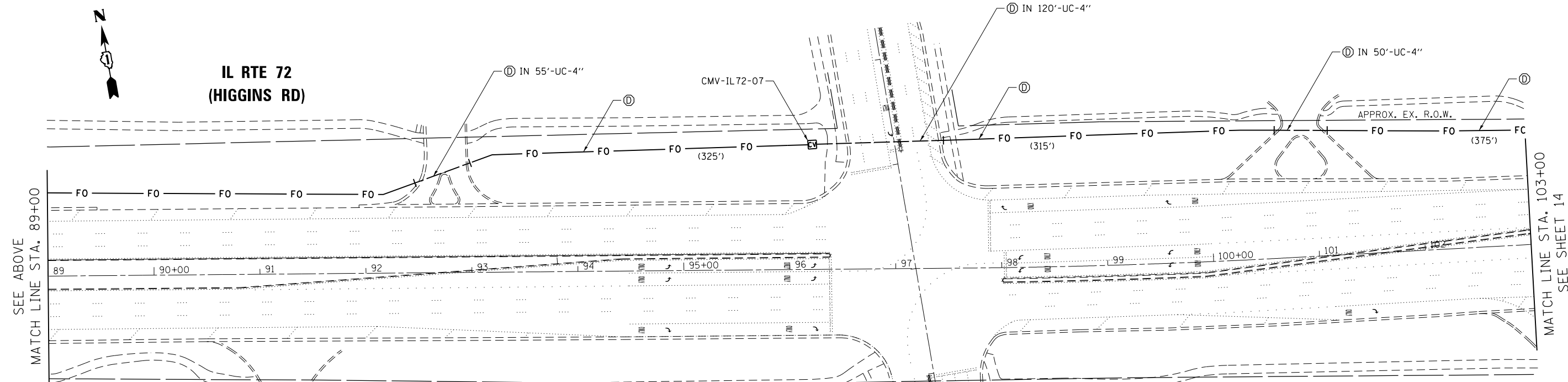
**PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 5 OF 10)
IDOT DISTRICT 1 HEADQUARTERS TO
IL RTE 72 (HIGGINS RD) & I-290**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	11
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



**IL RTE 72
(HIGGINS RD)**



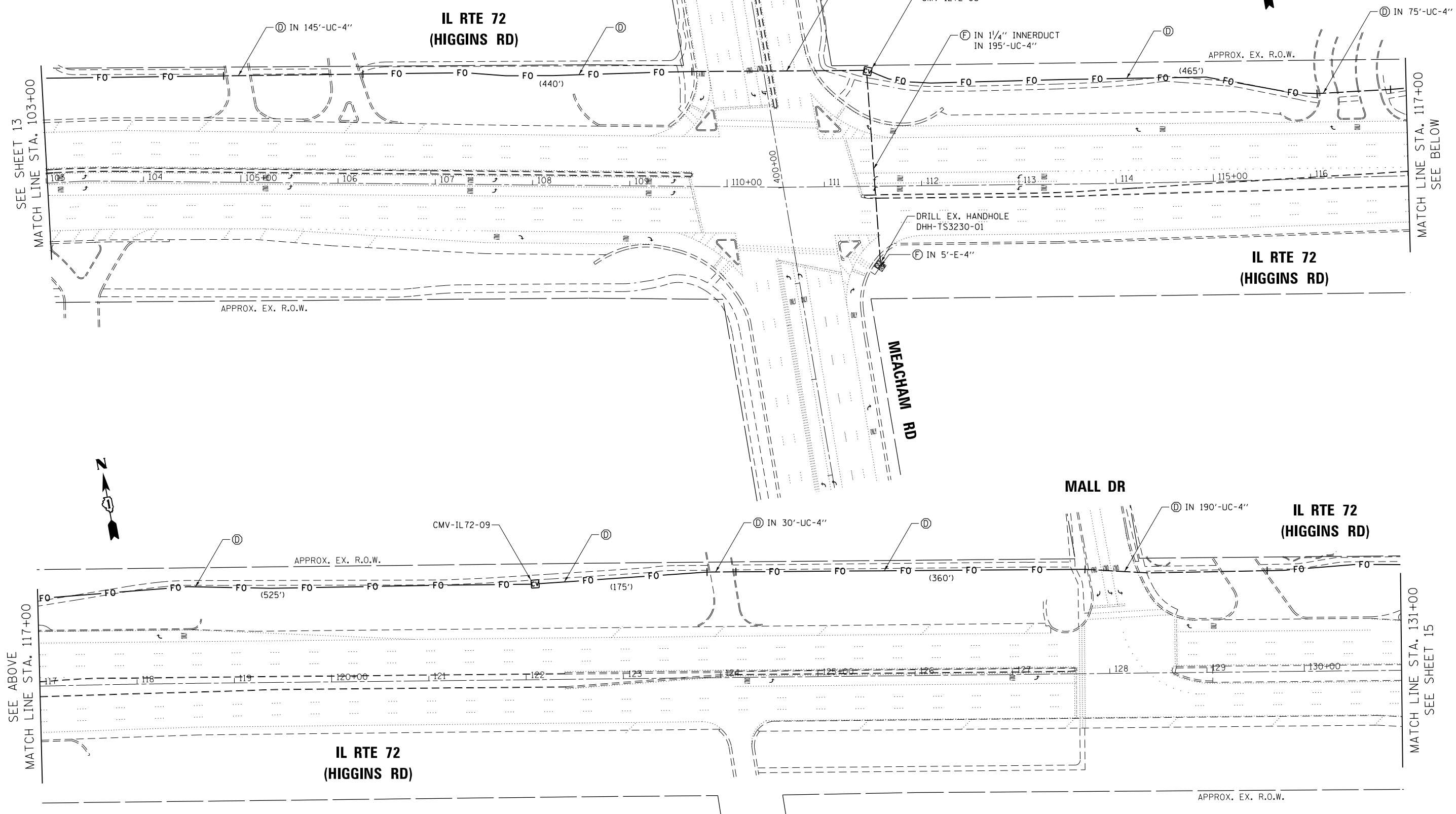
**IL RTE 72
(HIGGINS RD)**

NATIONAL PKWY

2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-IL72-01
2	96F SM	DCF-IL72-01
3		
4		
5		
6		
7		

2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-IL72-01
2	96F SM	DCF-IL72-01
3		
4		
5		
6		
7		

LATERAL	
CABLE	DESIGNATION
24F SM	LCF-IL72-01B



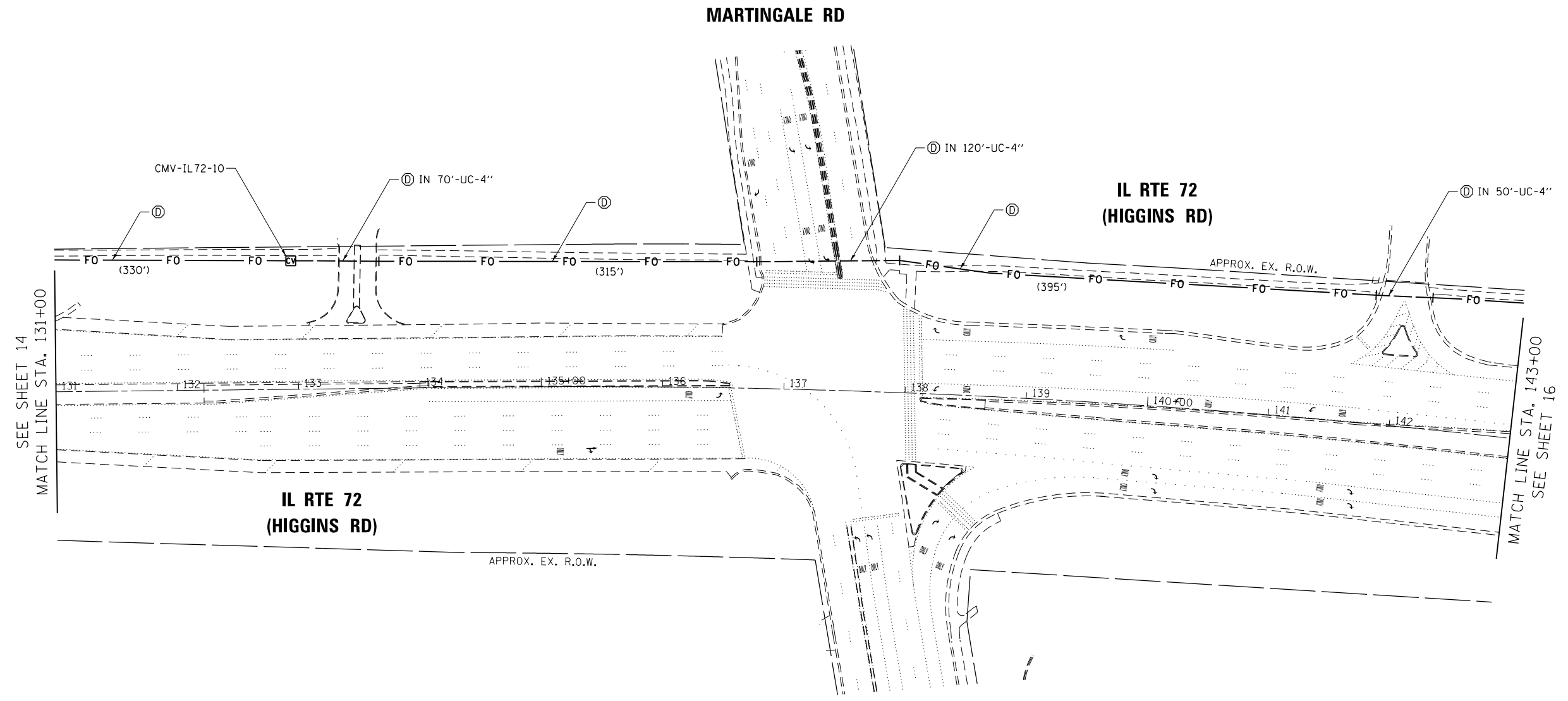
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 8 OF 10)
IDOT DISTRICT 1 HEADQUARTERS TO
IL RTE 72 (HIGGINS RD) & I-290**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-006I	COOK	53	14
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



①

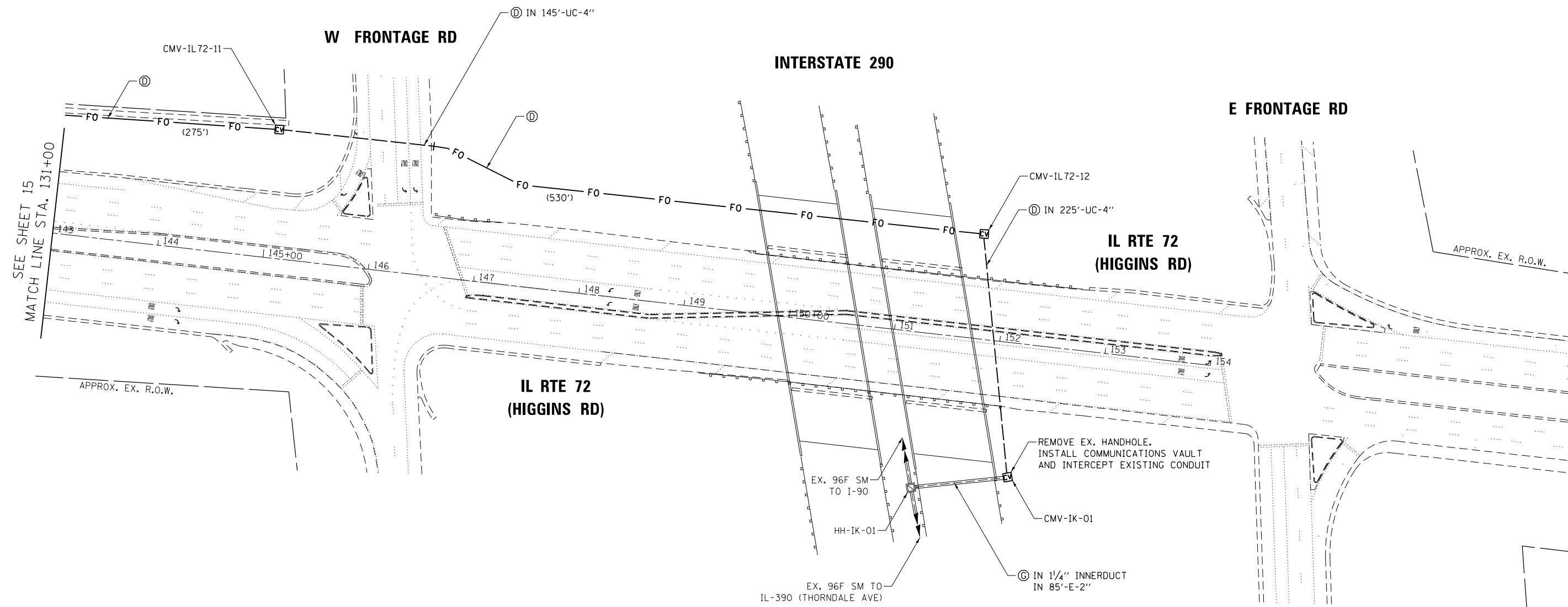
2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-IL72-01
2	96F SM	DCF-IL72-01
3		
4		
5		
6		
7		

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	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 9 OF 10)			
IDOT DISTRICT 1 HEADQUARTERS TO IL RTE 72 (HIGGINS RD) & I-290			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	15
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



2" MICRO-DUCT		
CELL	CABLE	DESIGNATION
1	144F SM	TCF-IL72-01
2	96F SM	DCF-IL72-01
3		
4		
5		
6		
7		

LATERAL	
CABLE	DESIGNATION
24F SM	LCF-IL72-01C

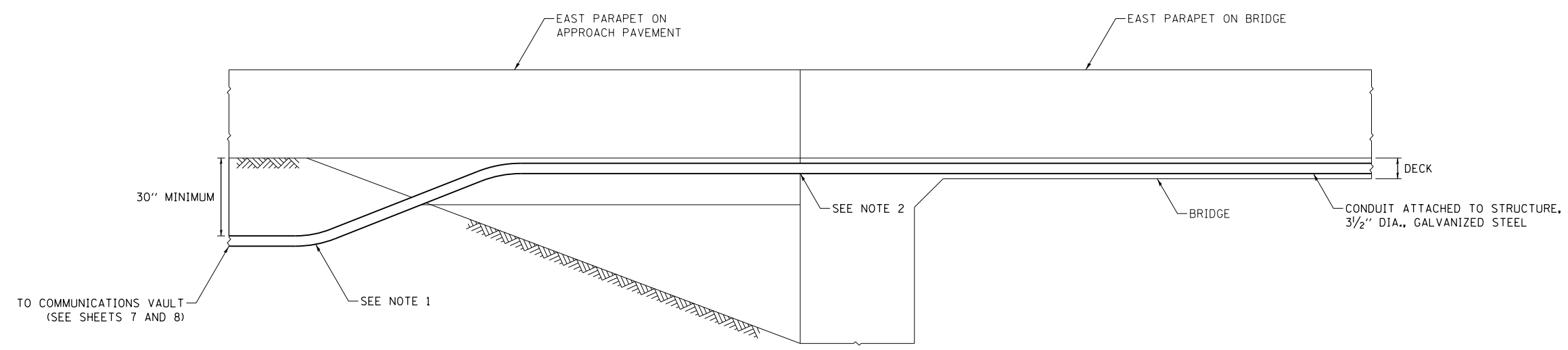
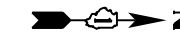
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Default	PLOT SCALE = 100.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED IDOT D1 HQ ALTERNATE FIBER ROUTE PLANS (SHEET 10 OF 10)
IDOT DISTRICT 1 HEADQUARTERS TO
IL RTE 72 (HIGGINS RD) & I-290**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	16
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



ROSELLE RD OVER I-90 TOLLWAY
SOUTH APPROACH - LOOKING WEST
 (NOT TO SCALE)

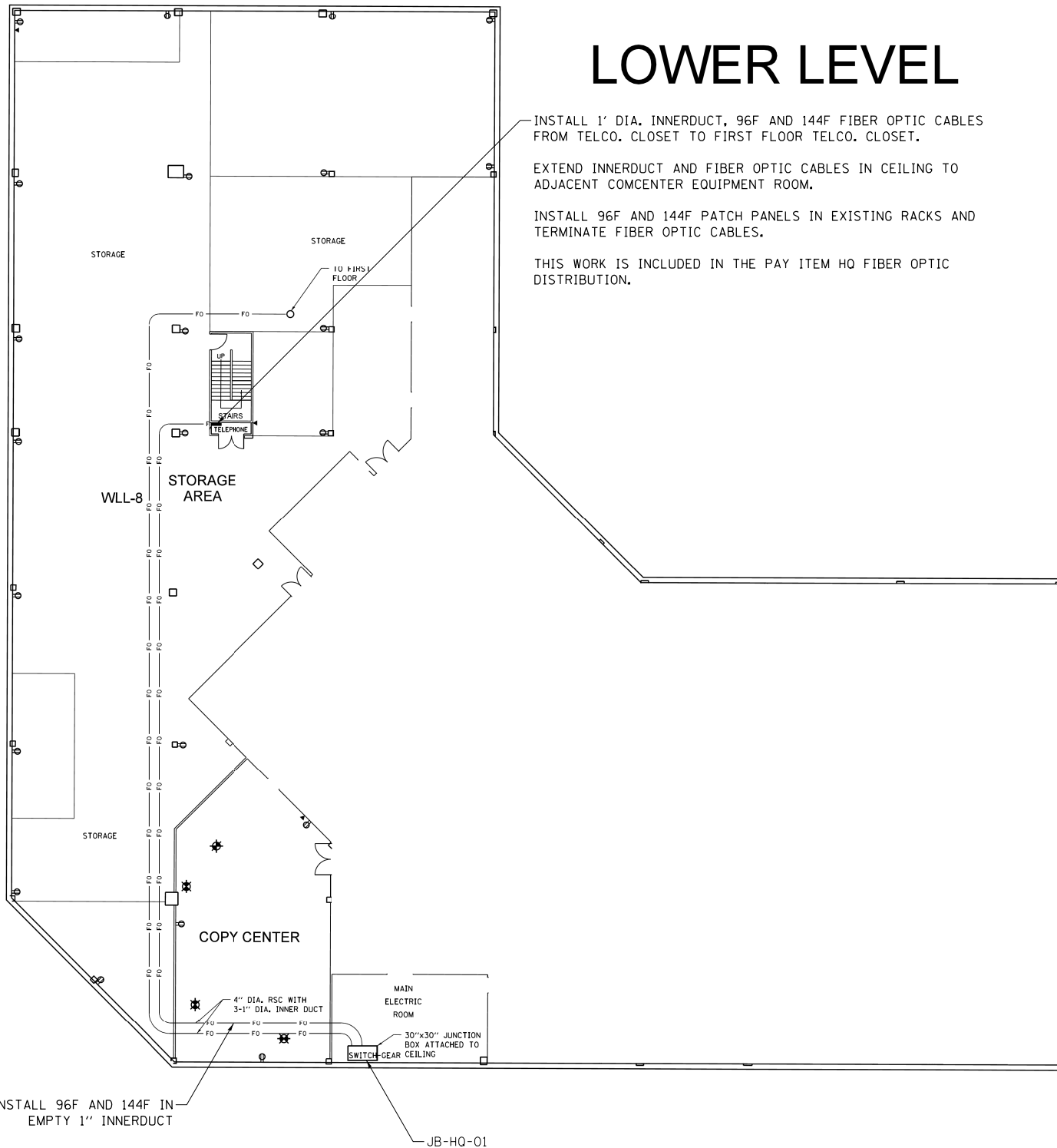
NOTES:

1. THE CONDUIT SHALL BE INSTALLED SUCH THAT THE BEND RADIUS DOES NOT EXCEED THE MINIMUM BEND RADIUS OF THE MICRODUCT.
2. EXPANSION/DEFLECTION FITTINGS SHALL BE INSTALLED AS NEEDED PER THE SPECIAL PROVISION.

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONDUIT ATTACHED TO STRUCTURE DETAIL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI28116\Traffic\0128116-shr-ts						VAR	2016-0061	COOK	53	17	
PLOT SCALE = 100.0000' / 1".						CONTRACT NO. 62C15					
Default						ILLINOIS FED. AID PROJECT					
		CHECKED - LP		SCALE:		SHEET OF SHEETS		STA. TO STA.			
		DATE - 2/8/2018									
		REVISED -									
		REVISED -									
		REVISED -									
		REVISED -									



LOWER LEVEL



INSTALL 1" DIA. INNERDUCT, 96F AND 144F FIBER OPTIC CABLES FROM TELCO. CLOSET TO FIRST FLOOR TELCO. CLOSET.

EXTEND INNERDUCT AND FIBER OPTIC CABLES IN CEILING TO ADJACENT COMCENTER EQUIPMENT ROOM.

INSTALL 96F AND 144F PATCH PANELS IN EXISTING RACKS AND TERMINATE FIBER OPTIC CABLES.

THIS WORK IS INCLUDED IN THE PAY ITEM HQ FIBER OPTIC DISTRIBUTION.

INSTALL 96F AND 144F IN EMPTY 1" INNERDUCT

JB-HQ-01

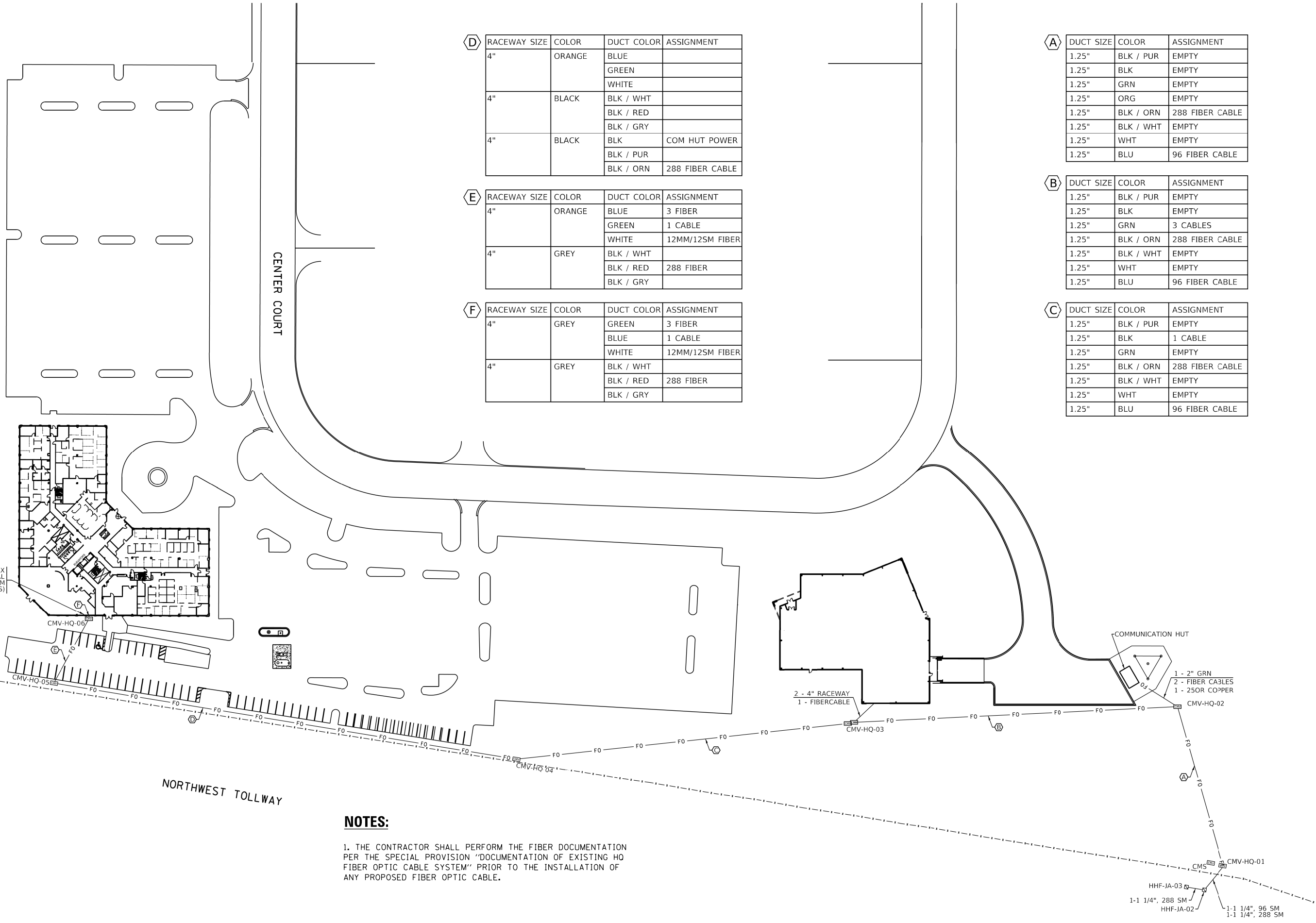
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Default	PLOT SCALE = 100.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT DISTRICT 1 HEADQUARTERS BUILDING DETAIL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	18
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



D

RACEWAY SIZE	COLOR	DUCT COLOR	ASSIGNMENT
4"	ORANGE	BLUE	
		GREEN	
		WHITE	
4"	BLACK	BLK / WHT	
		BLK / RED	
		BLK / GRY	
4"	BLACK	BLK	COM HUT POWER
		BLK / PUR	
		BLK / ORN	288 FIBER CABLE

E

RACEWAY SIZE	COLOR	DUCT COLOR	ASSIGNMENT
4"	ORANGE	BLUE	3 FIBER
		GREEN	1 CABLE
		WHITE	12MM/12SM FIBER
4"	GREY	BLK / WHT	
		BLK / RED	288 FIBER
		BLK / GRY	

F

RACEWAY SIZE	COLOR	DUCT COLOR	ASSIGNMENT
4"	GREY	GREEN	3 FIBER
		BLUE	1 CABLE
		WHITE	12MM/12SM FIBER
4"	GREY	BLK / WHT	
		BLK / RED	288 FIBER
		BLK / GRY	

A

DUCT SIZE	COLOR	ASSIGNMENT
1.25"	BLK / PUR	EMPTY
1.25"	BLK	EMPTY
1.25"	GRN	EMPTY
1.25"	ORG	EMPTY
1.25"	BLK / ORN	288 FIBER CABLE
1.25"	BLK / WHT	EMPTY
1.25"	WHT	EMPTY
1.25"	BLU	96 FIBER CABLE

B

DUCT SIZE	COLOR	ASSIGNMENT
1.25"	BLK / PUR	EMPTY
1.25"	BLK	EMPTY
1.25"	GRN	3 CABLES
1.25"	BLK / ORN	288 FIBER CABLE
1.25"	BLK / WHT	EMPTY
1.25"	WHT	EMPTY
1.25"	BLU	96 FIBER CABLE

C

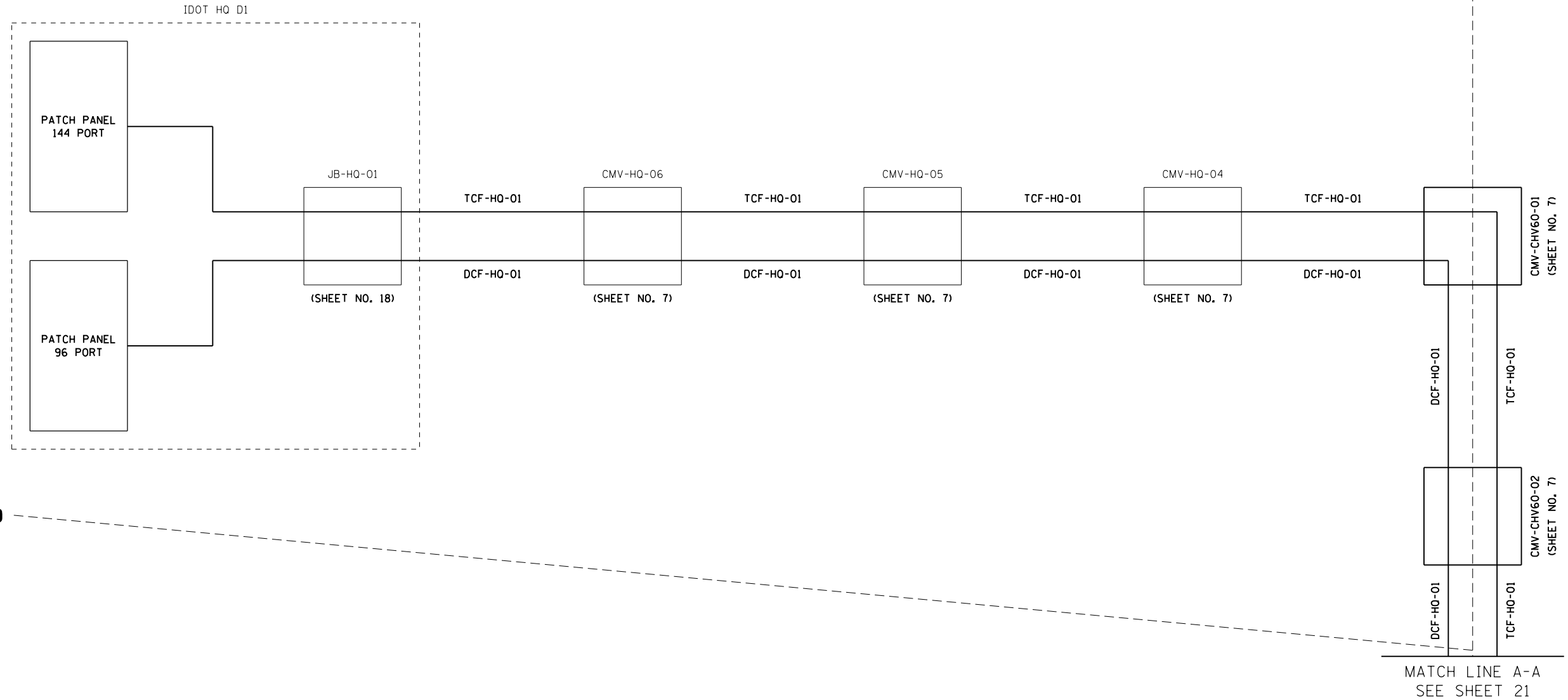
DUCT SIZE	COLOR	ASSIGNMENT
1.25"	BLK / PUR	EMPTY
1.25"	BLK	1 CABLE
1.25"	GRN	EMPTY
1.25"	BLK / ORN	288 FIBER CABLE
1.25"	BLK / WHT	EMPTY
1.25"	WHT	EMPTY
1.25"	BLU	96 FIBER CABLE

NOTES:

1. THE CONTRACTOR SHALL PERFORM THE FIBER DOCUMENTATION PER THE SPECIAL PROVISION "DOCUMENTATION OF EXISTING HO FIBER OPTIC CABLE SYSTEM" PRIOR TO THE INSTALLATION OF ANY PROPOSED FIBER OPTIC CABLE.

CENTRAL AVE

ROSELLE RD



CABLE MARKING SLACK JB-HQ-01		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-HQ-06		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-HQ-05		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-HQ-04		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-CHV60-01		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-CHV60-02		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

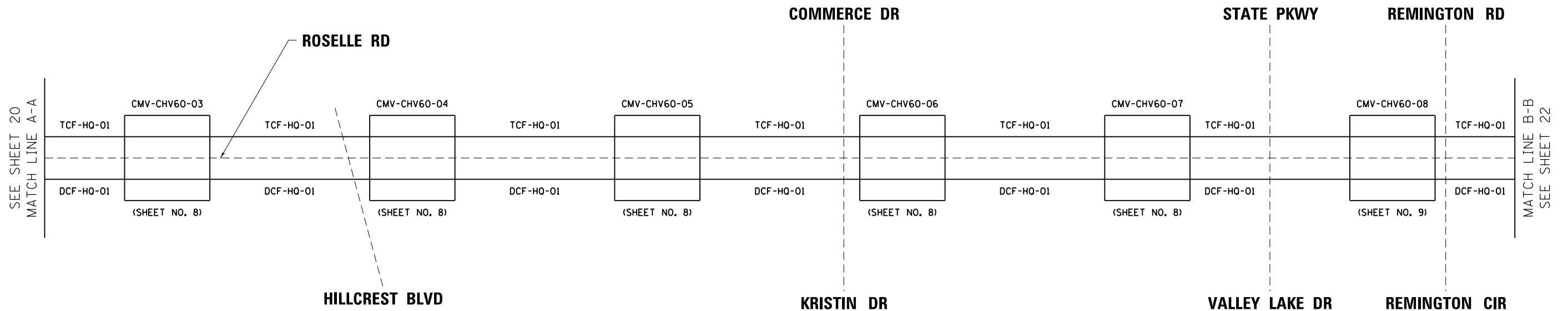
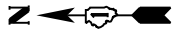
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING DIAGRAM (SHEET 1 OF 5)
IDOT D1 HQ, ROSELLE RD, IL RTE 72 (HIGGINS RD), AND I-290

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	20
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				



CABLE MARKING SLACK CMV-CHV60-03		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-CHV60-04		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-CHV60-05		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-CHV60-06		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-CHV60-07		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

CABLE MARKING SLACK CMV-CHV60-08		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018
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Default	PLOT SCALE = 100.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING DIAGRAM (SHEET 2 OF 5)
IDOT D1 HQ, ROSELLE RD, IL RTE 72 (HIGGINS RD), AND I-290**

SCALE: SHEET OF SHEETS STA. TO STA.

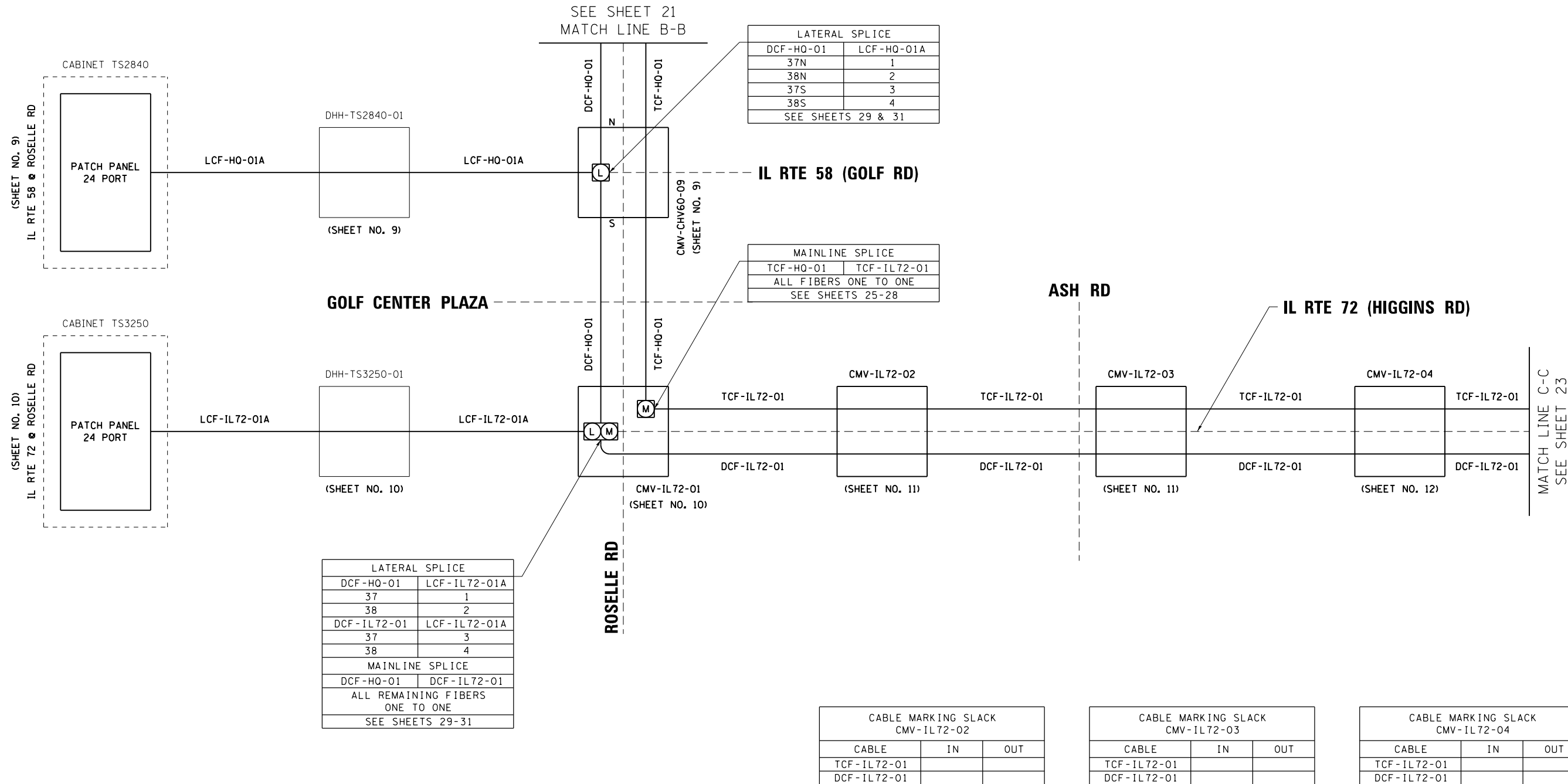
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	21
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

CABLE MARKING SLACK CMV-CHV60-09		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		
LCF-HQ-01A		

CABLE MARKING SLACK DHH-TS2840-01		
CABLE	IN	OUT
LCF-HQ-01A		

CABLE MARKING SLACK CMV-IL72-01		
CABLE	IN	OUT
TCF-HQ-01		
DCF-HQ-01		
TCF-IL72-01		
DCF-IL72-01		
LCF-IL72-01A		

CABLE MARKING SLACK DHH-TS3250-01		
CABLE	IN	OUT
LCF-IL72-01A		



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Default	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPlicing DIAGRAM (SHEET 3 OF 5)
IDOT D1 HQ, ROSELLE RD, IL RTE 72 (HIGGINS RD), AND I-290

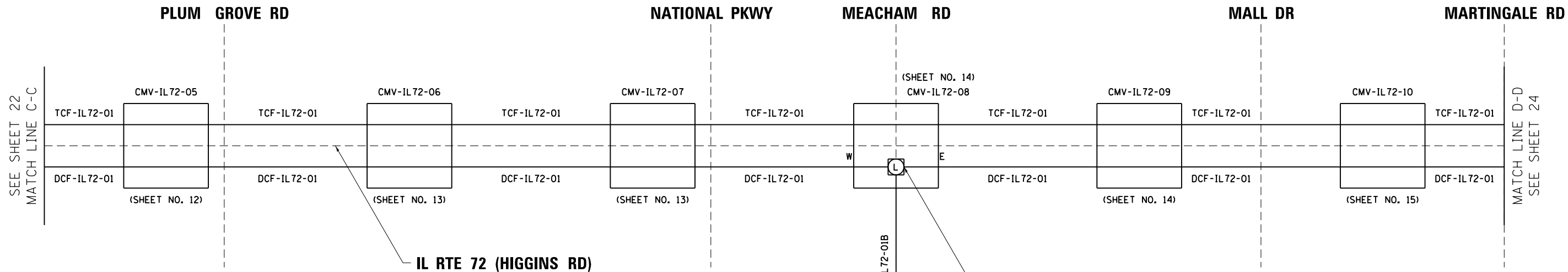
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	22
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

CABLE MARKING SLACK CMV-IL72-05			
CABLE	IN	OUT	
TCF-IL72-01			
DCF-IL72-01			

CABLE MARKING SLACK CMV-IL72-06			
CABLE	IN	OUT	
TCF-IL72-01			
DCF-IL72-01			

CABLE MARKING SLACK CMV-IL72-07			
CABLE	IN	OUT	
TCF-IL72-01			
DCF-IL72-01			



LATERAL SPLICE	
DCF-IL72-01	LCF-IL72-01B
37W	1
38W	2
37E	3
38E	4
SEE SHEETS 30-31	

CABLE MARKING SLACK CMV-IL72-08			
CABLE	IN	OUT	
TCF-IL72-01			
DCF-IL72-01			
LCF-IL72-01B			

CABLE MARKING SLACK DHH-TS3230-01			
CABLE	IN	OUT	
LCF-IL72-01B			

CABLE MARKING SLACK CMV-IL72-09			
CABLE	IN	OUT	
TCF-IL72-01			
DCF-IL72-01			

CABLE MARKING SLACK CMV-IL72-10			
CABLE	IN	OUT	
TCF-IL72-01			
DCF-IL72-01			

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018
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Default	PLOT SCALE = 100.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER SPLICING DIAGRAM (SHEET 4 OF 5)
IDOT D1 HQ, ROSELLE RD, IL RTE 72 (HIGGINS RD), AND I-290**

SCALE: SHEET OF SHEETS STA. TO STA.

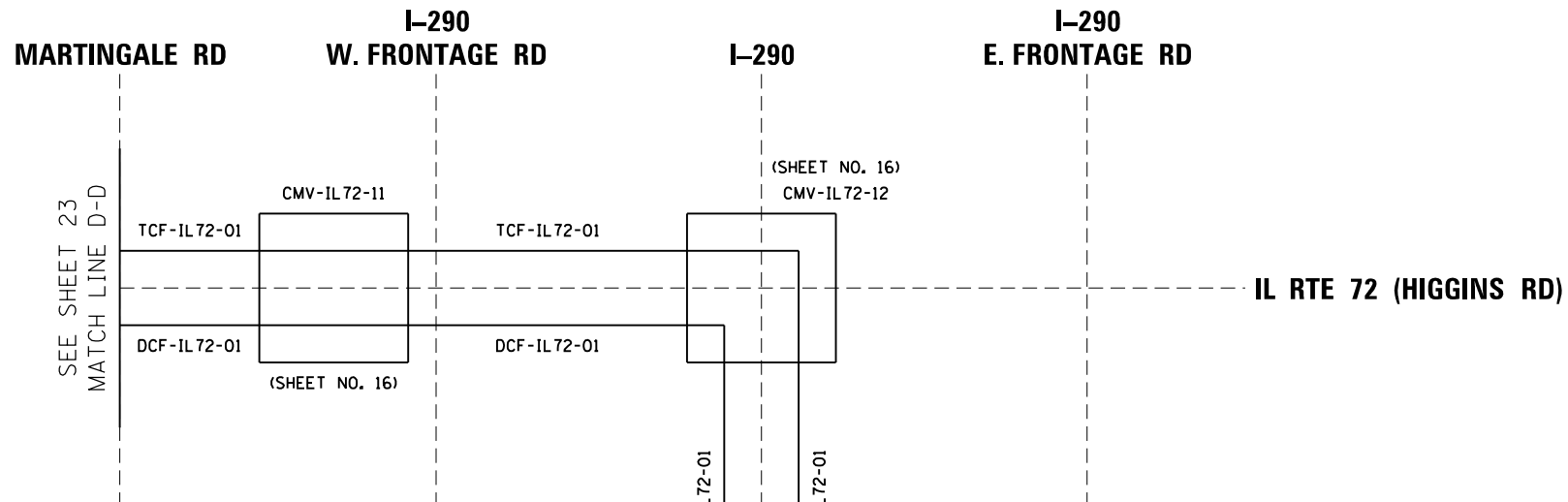
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	23
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

CABLE MARKING SLACK CMV-IL72-11		
CABLE	IN	OUT
TCF-IL72-01		
DCF-IL72-01		

CABLE MARKING SLACK CMV-IL72-12		
CABLE	IN	OUT
TCF-IL72-01		
DCF-IL72-01		

CABLE MARKING SLACK CMV-IK-01		
CABLE	IN	OUT
TCF-IL72-01		
DCF-IL72-01		
LCF-IL72-01C		

CABLE MARKING SLACK HH-IK-01		
CABLE	IN	OUT
LCF-IL72-01C		



SEE SHEET 23
MATCH LINE D-D

(SHEET NO. 16)
CMV-IL72-12

(SHEET NO. 16)

(SHEET NO. 16)

(SHEET NO. 16)

LATERAL SPLICE	
TCF-IL72-01	LCF-IL72-01C
25	1
26	2
73	3
74	4

SEE SHEETS 27, 28 & 31

LATERAL SPLICE	
LCF-IL72-01C	TCF-IK-07
1	25
2	26
3	73
4	74

SEE SHEETS 31-32

EX. 96F SM TO
IL-390 (THORNDALE AVE)

LEGEND

PREFIX	COMPONENT
JB	JUNCTION BOX
CMV	COMMUNICATIONS VAULT
HH	HANDHOLE
DHH	DOUBLE HANDHOLE
TCF	TRUNK CABLE, FIBER OPTIC
DCF	DISTRIBUTION CABLE, FIBER OPTIC
LCF	LATERAL CABLE, FIBER OPTIC

PREFIX	LOCATION
HQ	HEADQUARTERS (DISTRICT 1)
CHV60	COUNTY HIGHWAY V60 (ROSELLE RD)
IL72	IL RTE 72 (HIGGINS RD)
IK	EISENHOWER EXPY (I-290)
TS----	TRAFFIC SIGNAL CABINET

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	110
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	5,245
CONDUIT ATTACHED TO STRUCTURE, 3 1/2" DIA., GALVANIZED STEEL	FOOT	260
DRILL EXISTING HANDHOLE	EACH	3
REMOVE EXISTING HANDHOLE	EACH	1
FIBER OPTIC CABLE SPLICE - LATERAL	EACH	5
FIBER OPTIC CABLE SPLICE - MAINLINE	EACH	2
FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	465
UNDERGROUND CONDUIT, MULTI-DUCT, 7-16MM MICRODUCTS	FOOT	22,550
FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	800
COMMUNICATIONS VAULT	EACH	22
DOCUMENTATION OF EXISTING HO FIBER OPTIC CABLE SYSTEM	EACH	1
FIBER OPTIC CABLE, MICRO, 96 FIBERS, SINGLE MODE	FOOT	24,785
FIBER OPTIC CABLE, MICRO, 144 FIBERS, SINGLE MODE	FOOT	24,685
FIBER OPTIC PATCH PANEL, 96 PORT, RACK MOUNT	EACH	1
FIBER OPTIC PATCH PANEL, 144 PORT, RACK MOUNT	EACH	1
HO FIBER OPTIC DISTRIBUTION	L SUM	1
HO FIBER OPTIC CONNECTIVITY	L SUM	1

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION		D1 HEADQUARTERS		
TRUNK CABLE DESIGNATION		TCF-HQ-01		DESTINATION		CMV-IL72-01		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	1	SLATE	Blue	1	49	
	Orange	2	2		Orange	2	50	
	Green	3	3		Green	3	51	
	Brown	4	4		Brown	4	52	
	Slate	5	5		Slate	5	53	
	White	6	6		White	6	54	
	Red	7	7		Red	7	55	
	Black	8	8		Black	8	56	
	Yellow	9	9		Yellow	9	57	
	Violet	10	10		Violet	10	58	
	Rose	11	11		Rose	11	59	
	Aqua	12	12		Aqua	12	60	
ORANGE	Blue	1	13	WHITE	Blue	1	61	
	Orange	2	14		Orange	2	62	
	Green	3	15		Green	3	63	
	Brown	4	16		Brown	4	64	
	Slate	5	17		Slate	5	65	
	White	6	18		White	6	66	
	Red	7	19		Red	7	67	
	Black	8	20		Black	8	68	
	Yellow	9	21		Yellow	9	69	
	Violet	10	22		Violet	10	70	
	Rose	11	23		Rose	11	71	
	Aqua	12	24		Aqua	12	72	
GREEN	Blue	1	25	RED	Blue	1	73	VDS
	Orange	2	26		Orange	2	74	VDS
	Green	3	27		Green	3	75	
	Brown	4	28		Brown	4	76	
	Slate	5	29		Slate	5	77	
	White	6	30		White	6	78	
	Red	7	31		Red	7	79	
	Black	8	32		Black	8	80	
	Yellow	9	33		Yellow	9	81	
	Violet	10	34		Violet	10	82	
	Rose	11	35		Rose	11	83	
	Aqua	12	36		Aqua	12	84	
BROWN	Blue	1	37	BLACK	Blue	1	85	
	Orange	2	38		Orange	2	86	
	Green	3	39		Green	3	87	
	Brown	4	40		Brown	4	88	
	Slate	5	41		Slate	5	89	
	White	6	42		White	6	90	
	Red	7	43		Red	7	91	
	Black	8	44		Black	8	92	
	Yellow	9	45		Yellow	9	93	
	Violet	10	46		Violet	10	94	
	Rose	11	47		Rose	11	95	
	Aqua	12	48		Aqua	12	96	

TRUNK CABLE FIBER ASSIGNMENTS			
TRUNK CABLE DESIGNATION		TCF-HQ-01	
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
YELLOW	Blue	1	97
	Orange	2	98
	Green	3	99
	Brown	4	100
	Slate	5	101
	White	6	102
	Red	7	103
	Black	8	104
	Yellow	9	105
	Violet	10	106
	Rose	11	107
	Aqua	12	108
VIOLET	Blue	1	109
	Orange	2	110
	Green	3	111
	Brown	4	112
	Slate	5	113
	White	6	114
	Red	7	115
	Black	8	116
	Yellow	9	117
	Violet	10	118
	Rose	11	119
	Aqua	12	120
ROSE	Blue	1	121
	Orange	2	122
	Green	3	123
	Brown	4	124
	Slate	5	125
	White	6	126
	Red	7	127
	Black	8	128
	Yellow	9	129
	Violet	10	130
	Rose	11	131
	Aqua	12	132
AQUA	Blue	1	133
	Orange	2	134
	Green	3	135
	Brown	4	136
	Slate	5	137
	White	6	138
	Red	7	139
	Black	8	140
	Yellow	9	141
	Violet	10	142
	Rose	11	143
	Aqua	12	144

FILE NAME =	USER NAME = plascencia	DESIGNED - RT	REVISED - IP 3/15/2018
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Default	PLOT SCALE = 100.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER ASSIGNMENTS
144 FIBER TRUNK CABLE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	26
BE-2105			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION		CMV-IL72-01		
TRUNK CABLE DESIGNATION		TCF-IL72-01		DESTINATION		CMV-1K-01		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	1	SLATE	Blue	1	49	
	Orange	2	2		Orange	2	50	
	Green	3	3		Green	3	51	
	Brown	4	4		Brown	4	52	
	Slate	5	5		Slate	5	53	
	White	6	6		White	6	54	
	Red	7	7		Red	7	55	
	Black	8	8		Black	8	56	
	Yellow	9	9		Yellow	9	57	
	Violet	10	10		Violet	10	58	
	Rose	11	11		Rose	11	59	
	Aqua	12	12		Aqua	12	60	
ORANGE	Blue	1	13	WHITE	Blue	1	61	
	Orange	2	14		Orange	2	62	
	Green	3	15		Green	3	63	
	Brown	4	16		Brown	4	64	
	Slate	5	17		Slate	5	65	
	White	6	18		White	6	66	
	Red	7	19		Red	7	67	
	Black	8	20		Black	8	68	
	Yellow	9	21		Yellow	9	69	
	Violet	10	22		Violet	10	70	
	Rose	11	23		Rose	11	71	
	Aqua	12	24		Aqua	12	72	
GREEN	Blue	1	25	RED	Blue	1	73	VDS
	Orange	2	26		Orange	2	74	VDS
	Green	3	27		Green	3	75	
	Brown	4	28		Brown	4	76	
	Slate	5	29		Slate	5	77	
	White	6	30		White	6	78	
	Red	7	31		Red	7	79	
	Black	8	32		Black	8	80	
	Yellow	9	33		Yellow	9	81	
	Violet	10	34		Violet	10	82	
	Rose	11	35		Rose	11	83	
	Aqua	12	36		Aqua	12	84	
BROWN	Blue	1	37	BLACK	Blue	1	85	
	Orange	2	38		Orange	2	86	
	Green	3	39		Green	3	87	
	Brown	4	40		Brown	4	88	
	Slate	5	41		Slate	5	89	
	White	6	42		White	6	90	
	Red	7	43		Red	7	91	
	Black	8	44		Black	8	92	
	Yellow	9	45		Yellow	9	93	
	Violet	10	46		Violet	10	94	
	Rose	11	47		Rose	11	95	
	Aqua	12	48		Aqua	12	96	

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Default	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER ASSIGNMENTS
144 FIBER TRUNK CABLE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	27
BE-2105		CONTRACT NO. 62C15		
ILLINOIS FED. AID PROJECT				

TRUNK CABLE FIBER ASSIGNMENTS			
TRUNK CABLE DESIGNATION		TCF-IL72-01	
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
YELLOW	Blue	1	97
	Orange	2	98
	Green	3	99
	Brown	4	100
	Slate	5	101
	White	6	102
	Red	7	103
	Black	8	104
	Yellow	9	105
	Violet	10	106
	Rose	11	107
	Aqua	12	108
VIOLET	Blue	1	109
	Orange	2	110
	Green	3	111
	Brown	4	112
	Slate	5	113
	White	6	114
	Red	7	115
	Black	8	116
	Yellow	9	117
	Violet	10	118
	Rose	11	119
	Aqua	12	120
ROSE	Blue	1	121
	Orange	2	122
	Green	3	123
	Brown	4	124
	Slate	5	125
	White	6	126
	Red	7	127
	Black	8	128
	Yellow	9	129
	Violet	10	130
	Rose	11	131
	Aqua	12	132
AQUA	Blue	1	133
	Orange	2	134
	Green	3	135
	Brown	4	136
	Slate	5	137
	White	6	138
	Red	7	139
	Black	8	140
	Yellow	9	141
	Violet	10	142
	Rose	11	143
	Aqua	12	144

FILE NAME =	USER NAME = plascencia	DESIGNED - RT	REVISED - IP 3/15/2018
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FIBER ASSIGNMENTS
144 FIBER TRUNK CABLE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	28
BE-2105			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION		D1 HEADQUARTERS	
DISTRIBUTION CABLE DESIGNATION		DCF-HQ-01		DESTINATION		CMV-IL72-01	
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	1	SLATE	Blue	1	49
	Orange	2	2		Orange	2	50
	Green	3	3		Green	3	51
	Brown	4	4		Brown	4	52
	Slate	5	5		Slate	5	53
	White	6	6		White	6	54
	Red	7	7		Red	7	55
	Black	8	8		Black	8	56
	Yellow	9	9		Yellow	9	57
	Violet	10	10		Violet	10	58
	Rose	11	11		Rose	11	59
	Aqua	12	12		Aqua	12	60
ORANGE	Blue	1	13	WHITE	Blue	1	61
	Orange	2	14		Orange	2	62
	Green	3	15		Green	3	63
	Brown	4	16		Brown	4	64
	Slate	5	17		Slate	5	65
	White	6	18		White	6	66
	Red	7	19		Red	7	67
	Black	8	20		Black	8	68
	Yellow	9	21		Yellow	9	69
	Violet	10	22		Violet	10	70
	Rose	11	23		Rose	11	71
	Aqua	12	24		Aqua	12	72
GREEN	Blue	1	25	RED	Blue	1	73
	Orange	2	26		Orange	2	74
	Green	3	27		Green	3	75
	Brown	4	28		Brown	4	76
	Slate	5	29		Slate	5	77
	White	6	30		White	6	78
	Red	7	31		Red	7	79
	Black	8	32		Black	8	80
	Yellow	9	33		Yellow	9	81
	Violet	10	34		Violet	10	82
	Rose	11	35		Rose	11	83
	Aqua	12	36		Aqua	12	84
BROWN	Blue	1	37	BLACK	Blue	1	85
	Orange	2	38		Orange	2	86
	Green	3	39		Green	3	87
	Brown	4	40		Brown	4	88
	Slate	5	41		Slate	5	89
	White	6	42		White	6	90
	Red	7	43		Red	7	91
	Black	8	44		Black	8	92
	Yellow	9	45		Yellow	9	93
	Violet	10	46		Violet	10	94
	Rose	11	47		Rose	11	95
	Aqua	12	48		Aqua	12	96

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION		CMV-IL72-01	
DISTRIBUTION CABLE DESIGNATION		DCF-IL72-01		DESTINATION		CMV-1K-01	
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	1	SLATE	Blue	1	49
	Orange	2	2		Orange	2	50
	Green	3	3		Green	3	51
	Brown	4	4		Brown	4	52
	Slate	5	5		Slate	5	53
	White	6	6		White	6	54
	Red	7	7		Red	7	55
	Black	8	8		Black	8	56
	Yellow	9	9		Yellow	9	57
	Violet	10	10		Violet	10	58
	Rose	11	11		Rose	11	59
	Aqua	12	12		Aqua	12	60
ORANGE	Blue	1	13	WHITE	Blue	1	61
	Orange	2	14		Orange	2	62
	Green	3	15		Green	3	63
	Brown	4	16		Brown	4	64
	Slate	5	17		Slate	5	65
	White	6	18		White	6	66
	Red	7	19		Red	7	67
	Black	8	20		Black	8	68
	Yellow	9	21		Yellow	9	69
	Violet	10	22		Violet	10	70
	Rose	11	23		Rose	11	71
	Aqua	12	24		Aqua	12	72
GREEN	Blue	1	25	RED	Blue	1	73
	Orange	2	26		Orange	2	74
	Green	3	27		Green	3	75
	Brown	4	28		Brown	4	76
	Slate	5	29		Slate	5	77
	White	6	30		White	6	78
	Red	7	31		Red	7	79
	Black	8	32		Black	8	80
	Yellow	9	33		Yellow	9	81
	Violet	10	34		Violet	10	82
	Rose	11	35		Rose	11	83
	Aqua	12	36		Aqua	12	84
BROWN	Blue	1	37	BLACK	Blue	1	85
	Orange	2	38		Orange	2	86
	Green	3	39		Green	3	87
	Brown	4	40		Brown	4	88
	Slate	5	41		Slate	5	89
	White	6	42		White	6	90
	Red	7	43		Red	7	91
	Black	8	44		Black	8	92
	Yellow	9	45		Yellow	9	93
	Violet	10	46		Violet	10	94
	Rose	11	47		Rose	11	95
	Aqua	12	48		Aqua	12	96

LATERAL CABLE FIBER ASSIGNMENTS		
LATERAL CABLE DESIGNATION		LCF-HQ-01A
FIBER NO.	FUNCTION	CONNECTION
1	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-HQ-01-37N
2	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-HQ-01-38N
3	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-HQ-01-37S
4	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-HQ-01-38S
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24		

LATERAL CABLE FIBER ASSIGNMENTS		
LATERAL CABLE DESIGNATION		LCF-IL72-01B
FIBER NO.	FUNCTION	CONNECTION
1	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-IL72-01-37W
2	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-IL72-01-38W
3	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-IL72-01-37E
4	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-IL72-01-38E
5		
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21		
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23		
24		

LATERAL CABLE FIBER ASSIGNMENTS		
LATERAL CABLE DESIGNATION		LCF-IL72-01A
FIBER NO.	FUNCTION	CONNECTION
1	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-HQ-01-37
2	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-HQ-01-38
3	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-IL72-01-37
4	TRAFFIC SIGNAL CONTROLLER - PTZ CAMERA	DCF-IL72-01-38
5		
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LATERAL CABLE FIBER ASSIGNMENTS		
LATERAL CABLE DESIGNATION		LCF-IL72-01C
FIBER NO.	FUNCTION	CONNECTION
1	D1HQ TO JRTC IDOT LAN (HIGGINS-ROSELLE)	TCF-IL72-01-25 / TCF-1K-07-25
2	D1HQ TO JRTC IDOT LAN (HIGGINS-ROSELLE)	TCF-IL72-01-26 / TCF-1K-07-26
3	VDS	TCF-IL72-01-73 / TCF-1K-07-73
4	VDS	TCF-IL72-01-74 / TCF-1K-07-74
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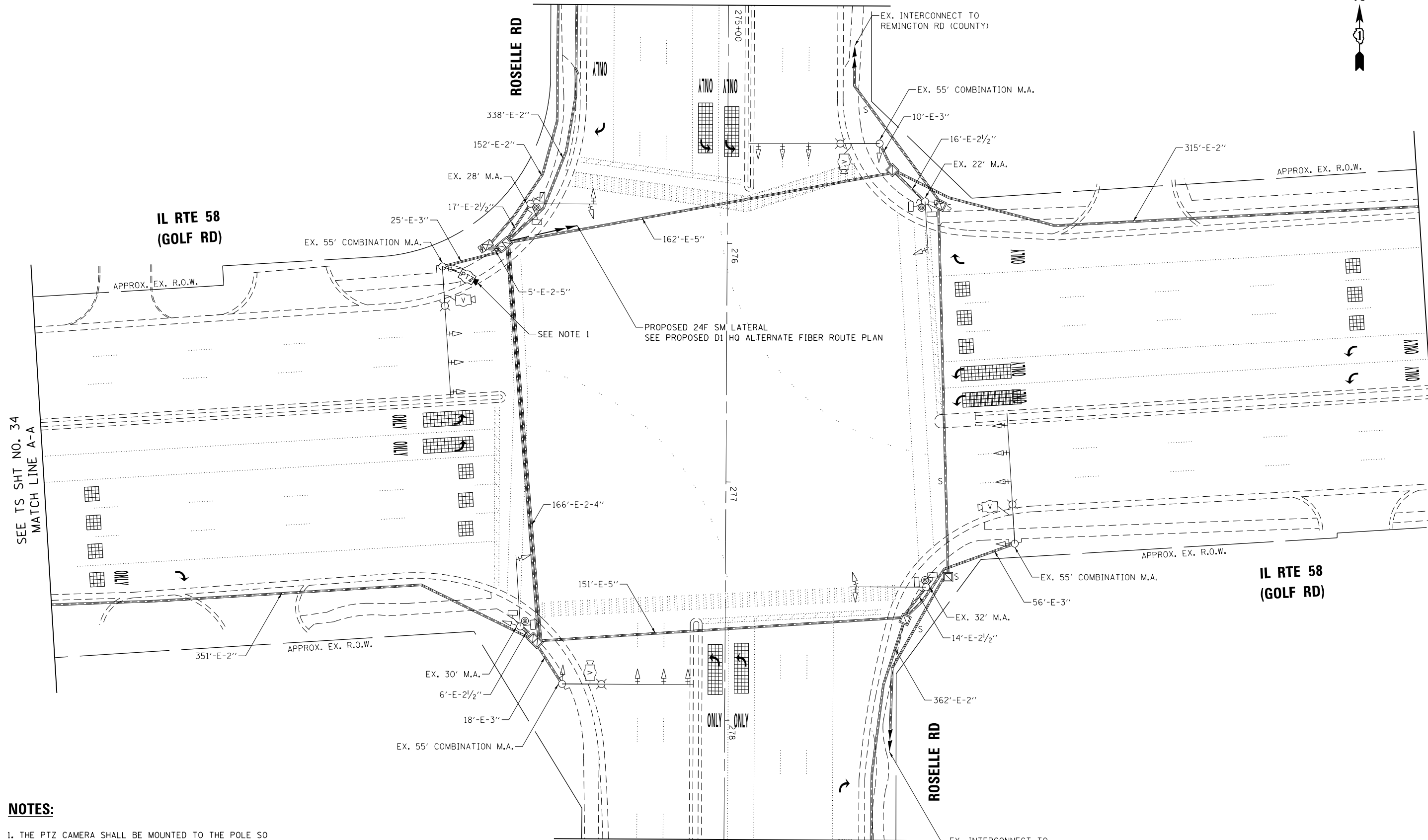
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FIBER ASSIGNMENTS 24 FIBER LATERAL CABLE	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	31
BE-2135			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION	HH-1K-01		
TRUNK CABLE DESIGNATION		TCF-1K-07 (NORDIC TOWER)		DESTINATION			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	Cam IK 29C	SLATE	Blue	49	
	Orange	2	Surveillance Cabinets P129, N130, M124, L123, 118		Orange	50	
	Green	3	Cam IK 29A		Green	51	
	Brown	4	Surveillance Cabinets 0127, 128, 123A, 119, 116		Brown	52	
	Slate	5	Meridian Chasis RXF-02-03-CAM-10 (Cam IK 28B)		Slate	53	
	White	6	Surveillance Cabinets 0132, 126, 122, 121, 117		White	54	
	Red	7	Meridian Chasis RXF-02-04-CAM-9 (Cam IK 28A)		Red	55	
	Black	8			Black	56	
	Yellow	9			Yellow	57	
	Violet	10	Meridian Chasis RXF-02-06-CAM-7 (Cam IK 27A)		Violet	58	
	Rose	11	Meridian Chasis RXF-02-07-CAM-6 (Cam IK 27)		Rose	59	
	Aqua	12	Meridian Chasis RXF-02-08-CAM-5 (Cam IK 26A)		Aqua	60	
ORANGE	Blue	13	Meridian Chasis RXF-02-09-CAM4/8 (BOY/IK 26)	WHITE	Blue	61	
	Orange	14	Meridian Chasis RXF-03-01-CAM-3 (Cam IK 25B)		Orange	62	
	Green	15	Meridian Chasis RXF-03-02-CAM-2 (Cam IK 25A)		Green	63	
	Brown	16			Brown	64	
	Slate	17	Meridian Chasis RXF-01-01-Camera 19 IK 30B		Slate	65	
	White	18	Meridian Chasis RXF-01-06-Camera 14 IK 29		White	66	
	Red	19	Meridian Chasis RXF-01-05-Camera 15 IK 29B		Red	67	
	Black	20	Meridian Chasis RXF-01-04-Camera 16 IK 29D		Black	68	
	Yellow	21	Meridian Chasis RXF-01-03-Camera 17 IK 30		Yellow	69	
	Violet	22	Meridian Chasis RXF-01-02-Camera 18 IK 30A		Violet	70	
	Rose	23	Blesterfield DMS		Rose	71	
	Aqua	24			Aqua	72	
GREEN	Blue	25	DIHQ TO JRTC IDOT LAN (HIGGINS-ROSELLE)	RED	Blue	73	VDS
	Orange	26	DIHQ TO JRTC IDOT LAN (HIGGINS-ROSELLE)		Orange	74	VDS
	Green	27			Green	75	
	Brown	28			Brown	76	
	Slate	29			Slate	77	
	White	30			White	78	
	Red	31			Red	79	
	Black	32			Black	80	
	Yellow	33			Yellow	81	Lighting SCADA
	Violet	34			Violet	82	Lighting SCADA
	Rose	35			Rose	83	CISCO 3750 G4-CISCO 4506 DIHQ
	Aqua	36			Aqua	84	CISCO 3750 G4-CISCO 4506 DIHQ
BROWN	Blue	37	JRTC IDOT LAN TO DIHQ	BLACK	Blue	85	Optelecom MultiPlexer 24 TRUNK
	Orange	38	JRTC IDOT LAN TO DIHQ		Orange	86	TELE-CONFERENCE TSC/Schaumburg Jumpered to Fiber Can 3 Port 15 to East
	Green	39	GCM HILLSIDE to DIHQ		Green	87	REVLAC DATA TO HQ Jumpered to Fiber Can 3 Port 1 to East
	Brown	40	GCM HILLSIDE to DIHQ		Brown	88	REVLAC DATA TO HQ Jumpered to Fiber Can 3 Port 2 to East
	Slate	41			Slate	89	IDOT LAN TO TSC Jumpered to Fiber Can 3 Port 87 to East
	White	42			White	90	IDOT LAN TO TSC Jumpered to Fiber Can 3 Port 88 to East
	Red	43	OC48 HILLSIDE to DIHQ		Red	91	REVLAC REDUNDANT FIBER Jumpered to Fiber Can 3 Port 91 to East
	Black	44	OC48 HILLSIDE to DIHQ		Black	92	REVLAC REDUNDANT FIBER Jumpered to Fiber Can 3 Port 92 to East
	Yellow	45			Yellow	93	155 VDS Jumper to Fiber Can 5 Port 73 to South
	Violet	46			Violet	94	155 VDS Jumper to Fiber Can 5 Port 74 to South
	Rose	47			Rose	95	IDOT HQ Jumpered to RuggedComm Port 10 TX I-80
	Aqua	48			Aqua	96	IDOT HQ Jumpered to RuggedComm Port 10 RX I-80

SEE TS SHT NO. 35
MATCH LINE STA. 275+00

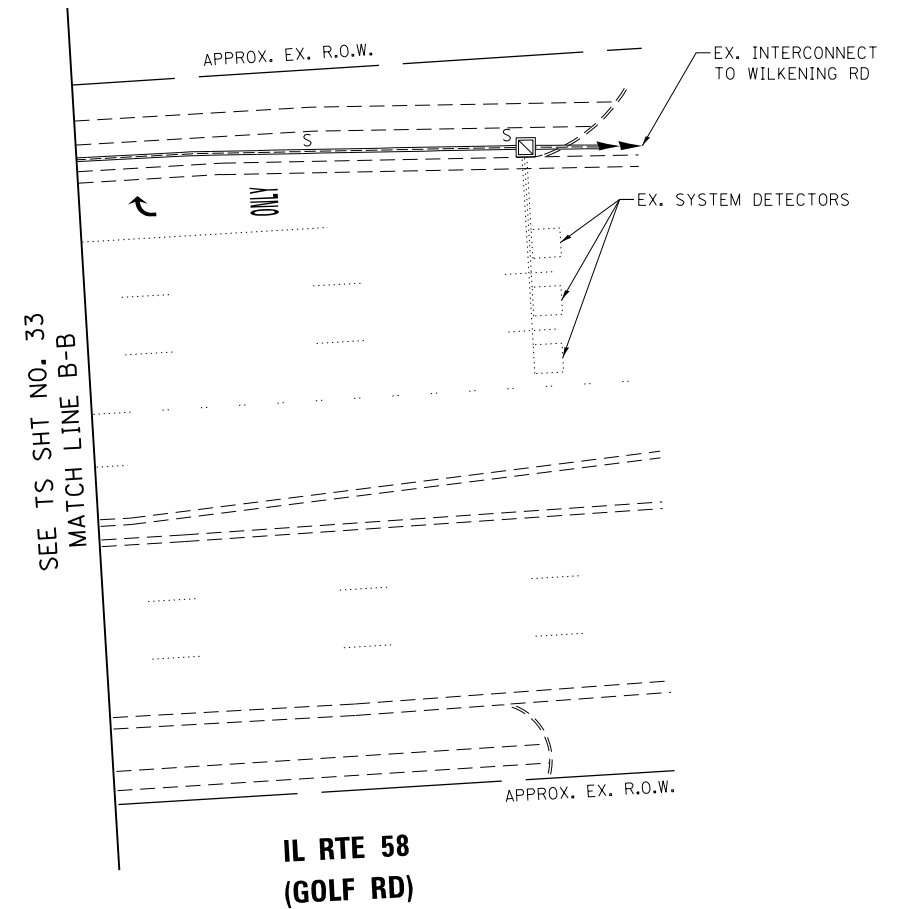
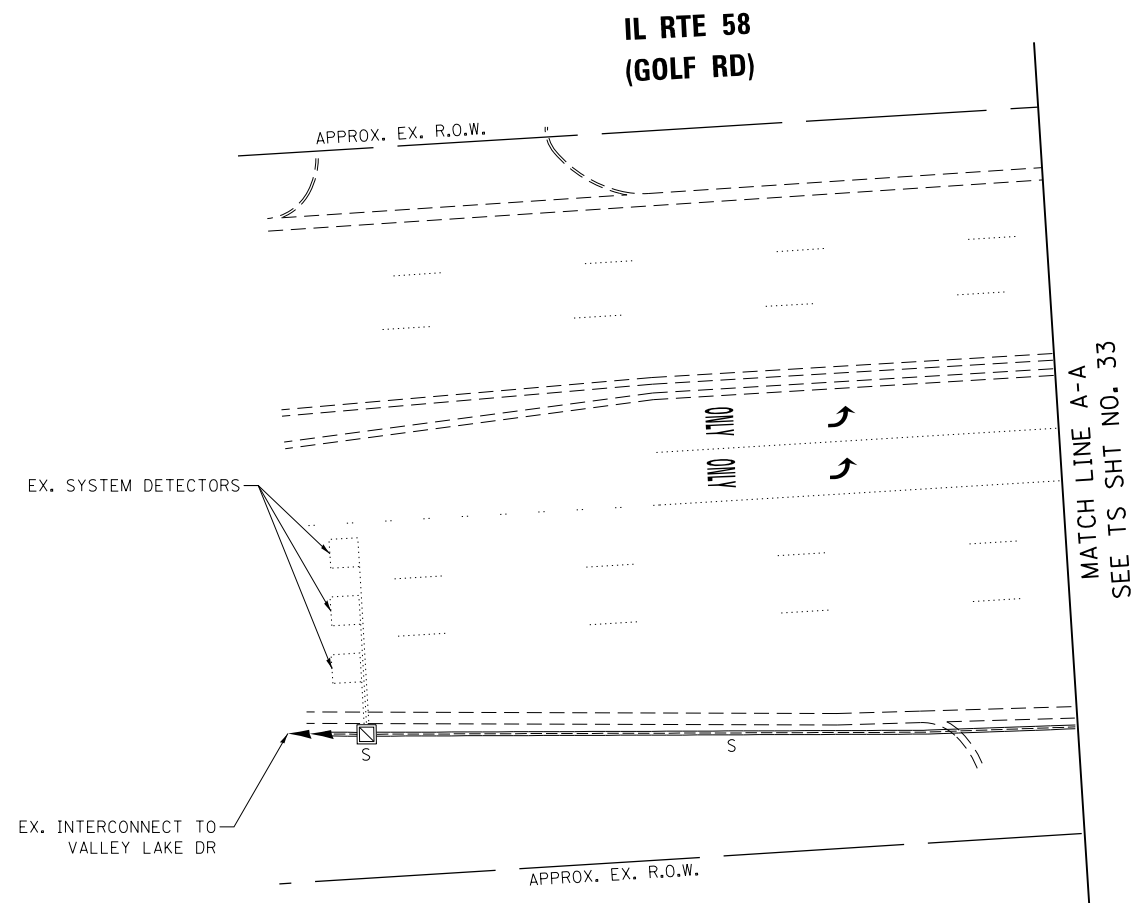


1. THE PTZ CAMERA SHALL BE MOUNTED TO THE POLE SO THAT THE PTZ CAMERA MOUNTING ARM IS DIRECTED TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL OF THE APPROACHES.

MATCH LINE STA. 278+50
SEE TS SHT NO. 35

**TS 2840
ECON 81**

FILE NAME = p:\IL\084EBID\INTEG\Illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI2811\Traffic\28116-sht-ts	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 3) IL RTE 58 (GOLF RD) AT ROSELLE RD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000' / in.	CHECKED - LP	REVISED -			VAR	2016-0061	COOK	53	33
Default	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 62C15 ILLINOIS FED. AID PROJECT				



**TS 2840
ECON 81**

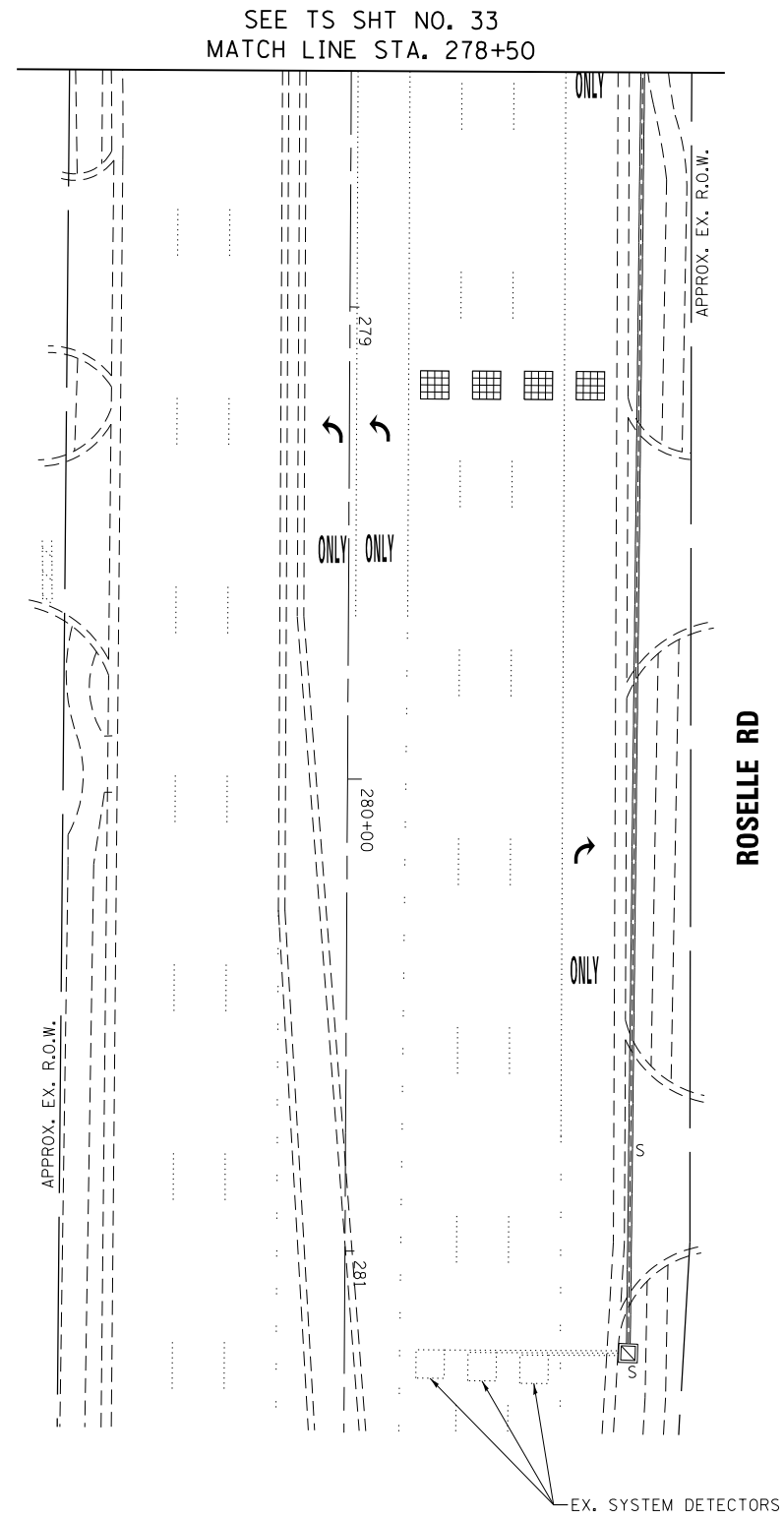
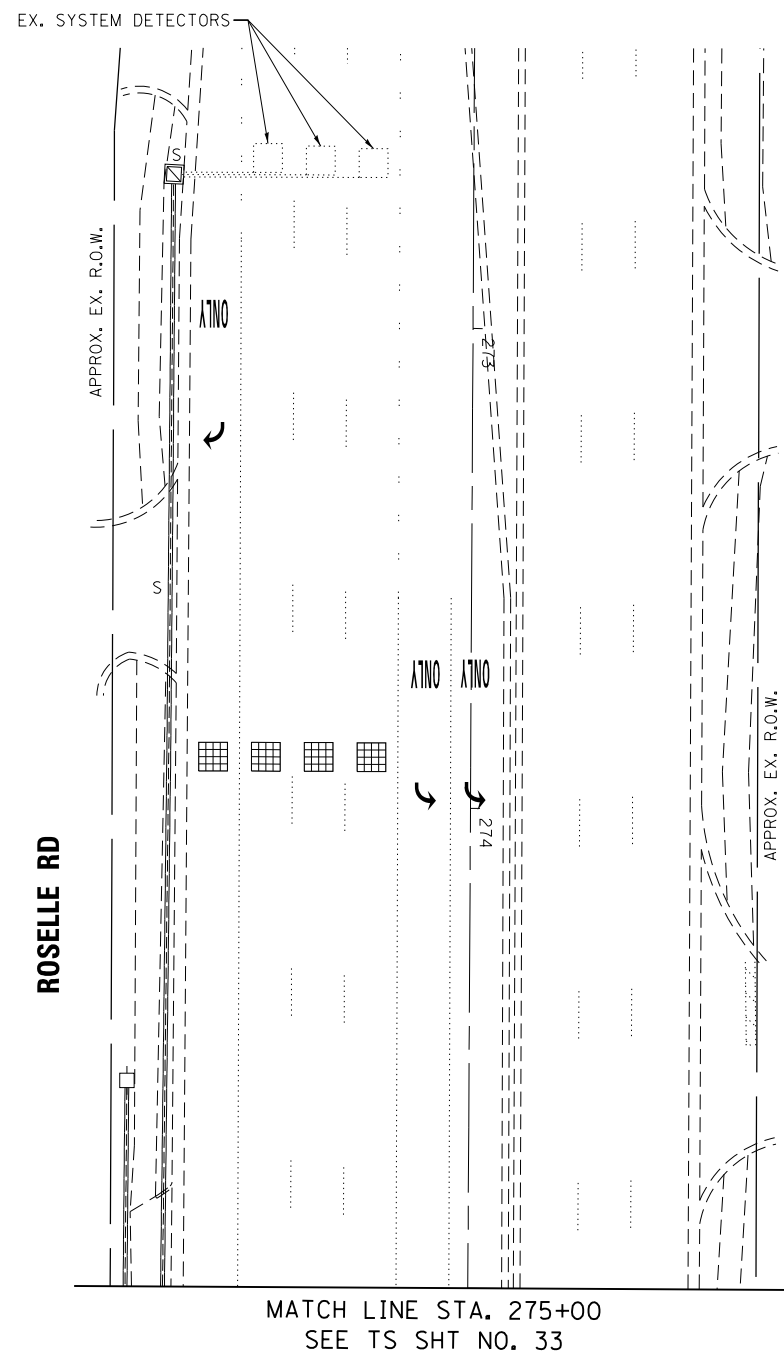
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	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 3)
IL RTE 58 (GOLF RD) AT ROSELLE RD**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	34
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62C15	



**TS 2840
ECON 81**

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018
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	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 3 OF 3)
IL RTE 58 (GOLF RD) AT ROSELLE RD**

SCALE: SHEET OF SHEETS STA. TO STA.

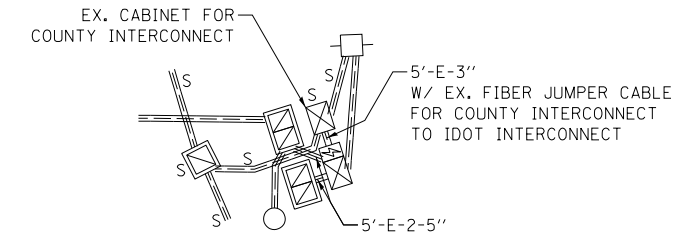
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	35
			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				



**IL RTE 72
(HIGGINS RD)**

SEE TS SHT NO. 39
MATCH LINE STA. 290+75

ROSELLE RD



EX. INTERCONNECT TO GOLF CENTER/HOFFMAN PLAZA SHOPPING CENTER (COUNTY)
PROPOSED 24F SM LATERAL
SEE PROPOSED D1 HQ ALTERNATE FIBER ROUTE PLAN



SEE TS SHT NO. 38
MATCH LINE STA. 11+50

MATCH LINE STA. 17+25
SEE TS SHT NO. 38

**IL RTE 72
(HIGGINS RD)**

ROSELLE RD

MATCH LINE STA. 294+25
SEE TS SHT NO. 39

NOTES:

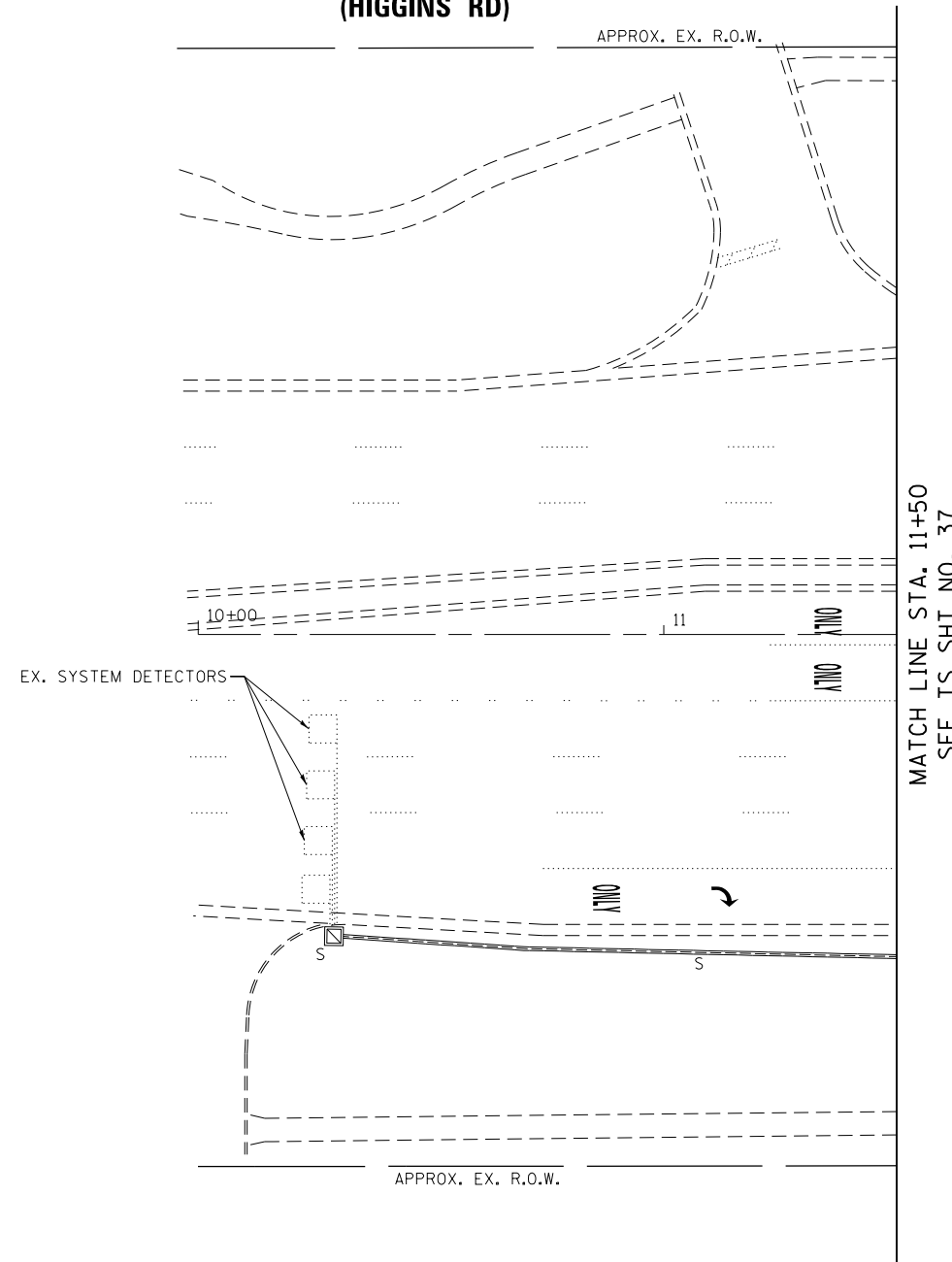
1. THE PTZ CAMERA SHALL BE MOUNTED TO THE POLE SO THAT THE PTZ CAMERA MOUNTING ARM IS DIRECTED TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL OF THE APPROACHES.

**TS 3250
ECON 81**

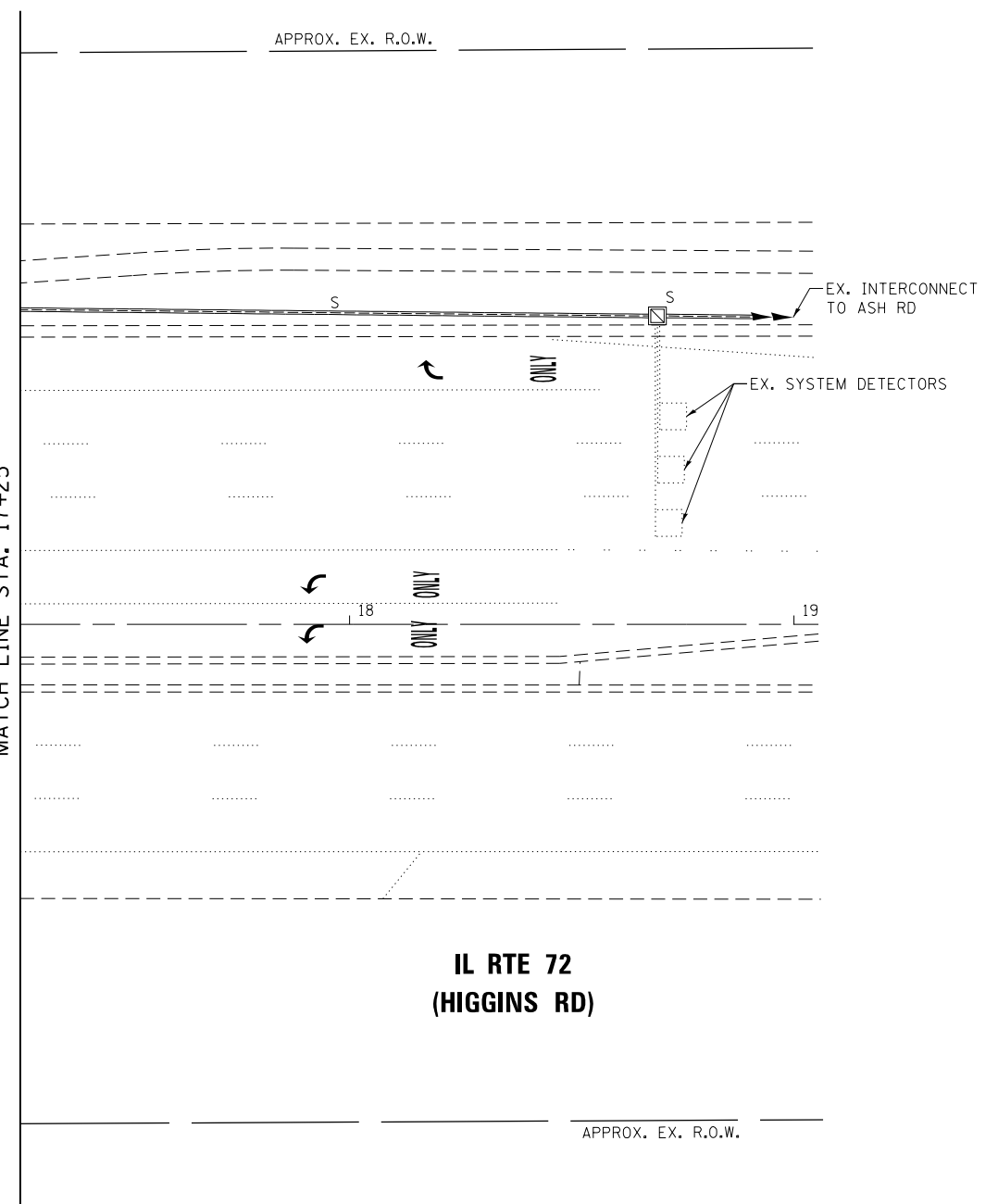
FILE NAME =	USER NAME = plescenci	DESIGNED - IP	REVISED - IP 3/15/2018	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 3) IL RTE 72 (HIGGINS RD) AT ROSELLE RD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pww\IL084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI2811\Drawings\Traffic\28116-sht-ts						REVISED -	VAR	2016-0061	COOK	53	37
PLOT SCALE = 48.0000' / in.						CHECKED - LP	CONTRACT NO. 62C15			ILLINOIS FED. AID PROJECT	
DATE - 2/8/2018						REVISED -	SCALE:	SHEET	OF	SHEETS	STA.



**IL RTE 72
(HIGGINS RD)**



SEE TS SHT NO. 37
MATCH LINE STA. 17+25



**IL RTE 72
(HIGGINS RD)**

**TS 3250
ECON 81**

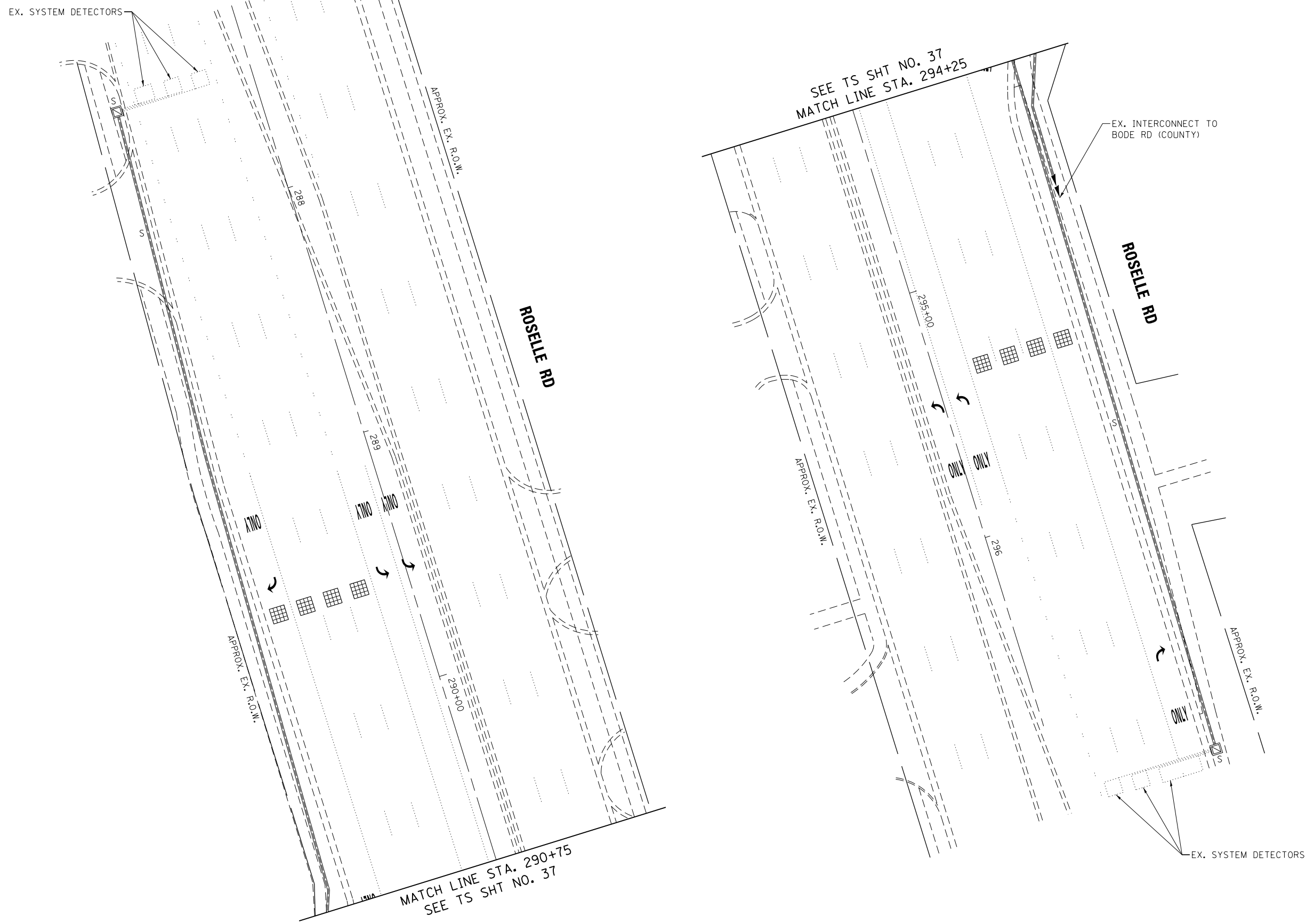
FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018
p:\11\084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI28116\Traffic\128116-sht-ts		DRAWN - LP	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 3)
IL RTE 72 (HIGGINS RD) AT ROSELLE RD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	38
			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				



**TS 3250
ECON 81**

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018
p:\work\084EBID\INTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\128116\Traffic\128116-sht-ts		DRAWN -	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

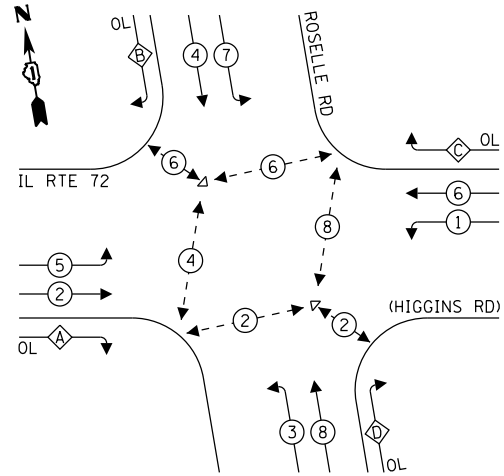
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 3 OF 3)
IL RTE 72 (HIGGINS RD) AT ROSELLE RD**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	39
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



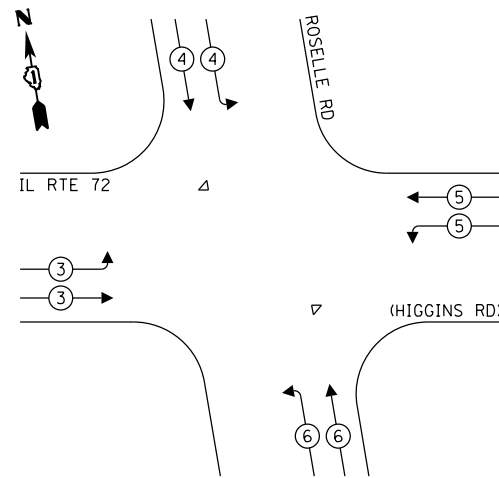
LEGEND:

- ⊙ — PROTECTED PHASE
- ⊖ — PROTECTED/PERMITTED PHASE
- ⊙ — PEDESTRIAN PHASE
- ⊙ — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2 +	3
B	4 +	5
C	6 +	7
D	8 +	1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	24	11	50	132.0
(YELLOW)	24	20	5	24.0
(GREEN)	24	12	45	129.6
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	12	20	100	240.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	120	50	240.0
LUMINAIRE	-	-	-	-
TOTAL =				1056.6

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER CT
 SCHAUMBURG, IL 60196
 ENERGY SUPPLY: CONTACT: DAVE SCHACHT
 PHONE: (630) 437-2129
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

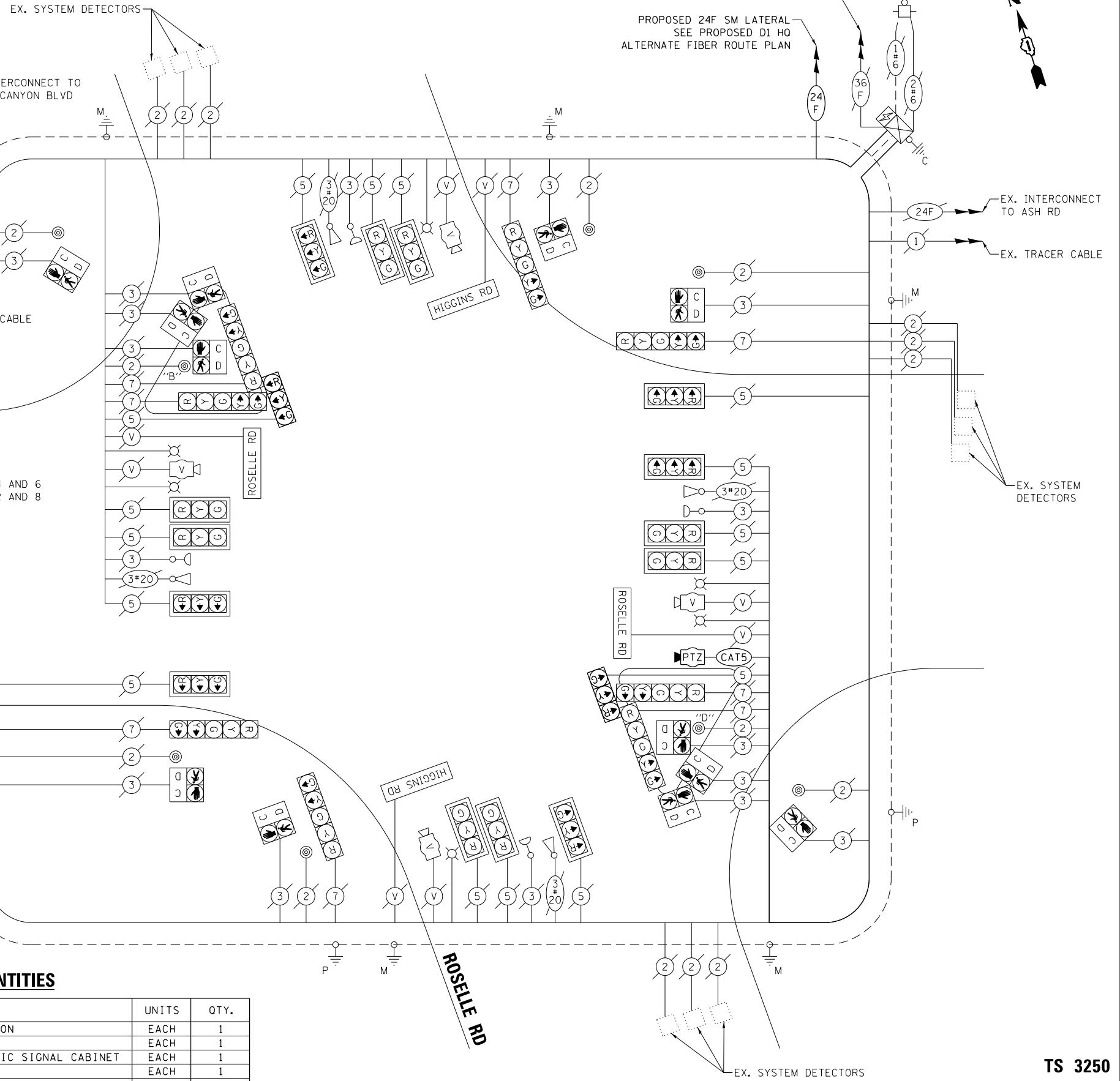
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT, TRAFFIC SIGNAL CABINET	EACH	1
FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	1

IL RTE 72 (HIGGINS RD)

EX. SYSTEM DETECTORS



FILE NAME = USER NAME =
 pw\11084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI2811\Traffic\128116-sht-ts
 DRAWN BY =
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 3/19/2018

DESIGNED - IP
 REVISIONS - IP 3/15/2018
 CHECKED - LP
 DATE - 2/8/2018

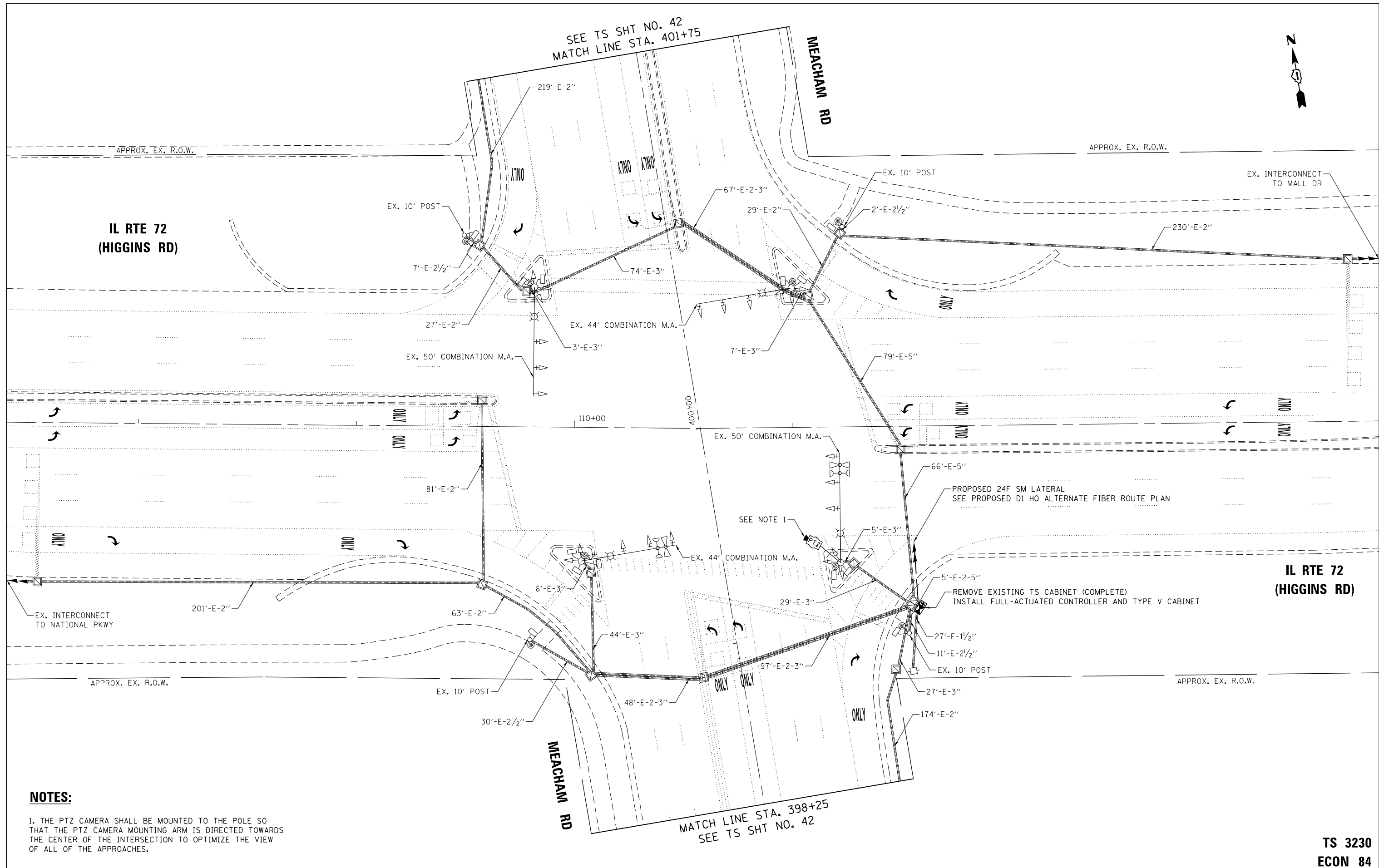
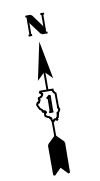
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 72 (HIGGINS RD) AT ROSELLE RD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	40
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

**TS 3250
ECON 81**



1. THE PTZ CAMERA SHALL BE MOUNTED TO THE POLE SO THAT THE PTZ CAMERA MOUNTING ARM IS DIRECTED TOWARDS THE CENTER OF THE INTERSECTION TO OPTIMIZE THE VIEW OF ALL OF THE APPROACHES.

**IL RTE 72
(HIGGINS RD)**

MATCH LINE STA. 398+25
SEE TS SHT NO. 42

SEE TS SHT NO. 42
MATCH LINE STA. 401+75

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018
p:\IL\084EBID\INTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI2811\Drawings\Traffic\08128116-sht-ts		DRAWN - LP	REVISED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

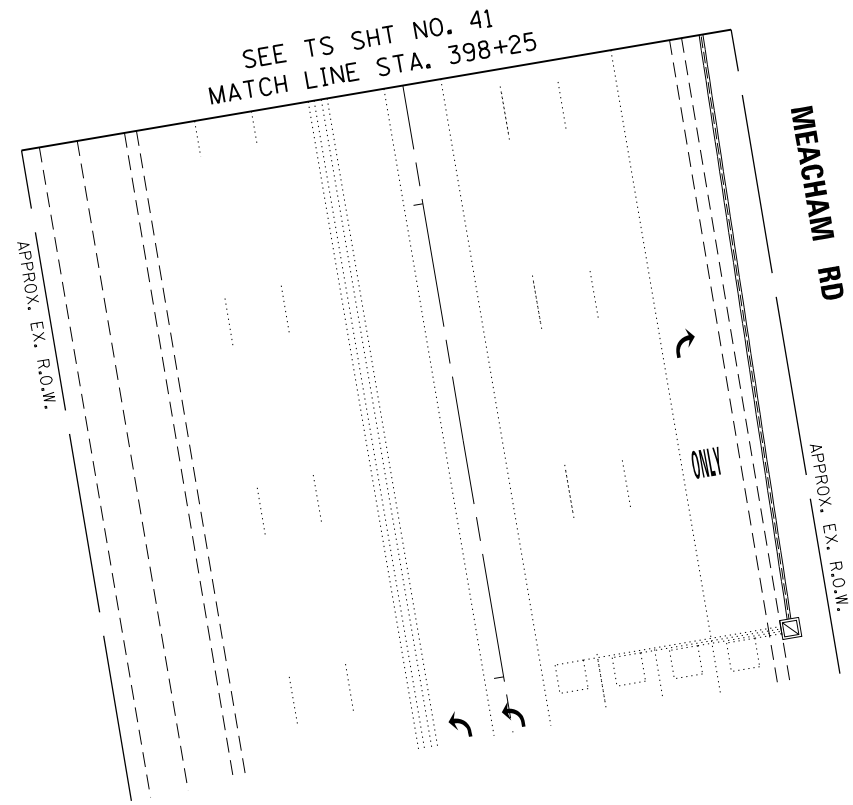
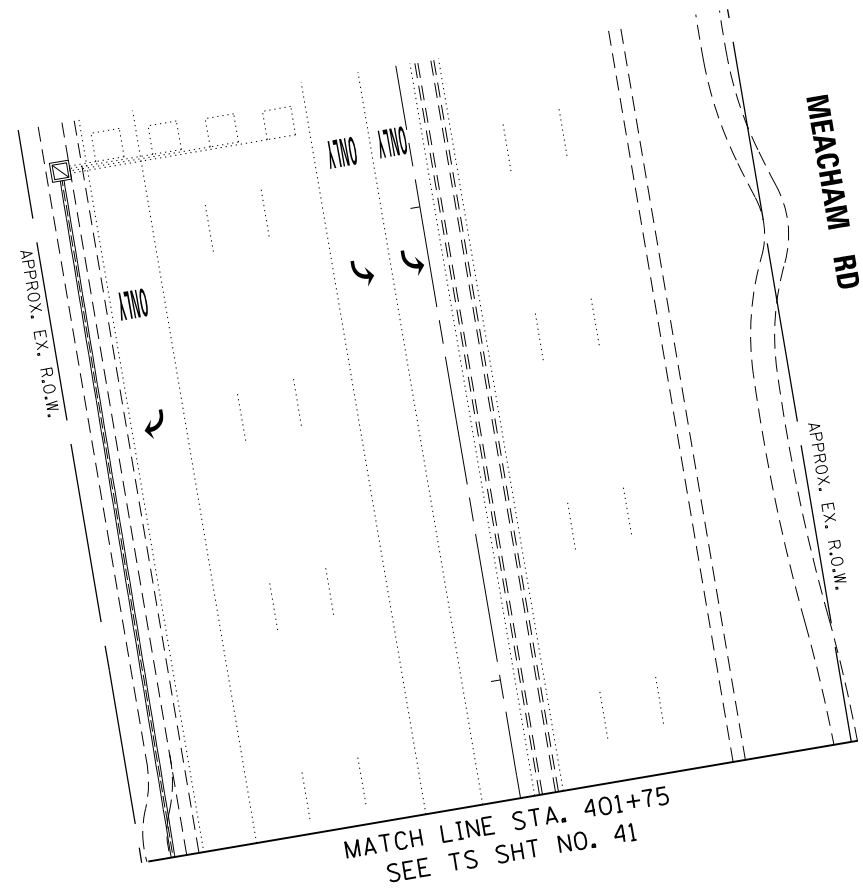
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 1 OF 2)
IL RTE 72 (HIGGINS RD) AT MEACHAM RD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	41
CONTRACT NO. 62C15				
ILLINOIS FED. AID PROJECT				

**TS 3230
ECON 84**



**TS 3230
ECON 84**

FILE NAME =	USER NAME = plascencia	DESIGNED - IP	REVISED - IP 3/15/2018
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI28116\Traffic\28116-sht-ts	DRAWN	CHECKED - LP	REVISED -
Default	PLOT DATE = 3/19/2018	DATE - 2/8/2018	REVISED -

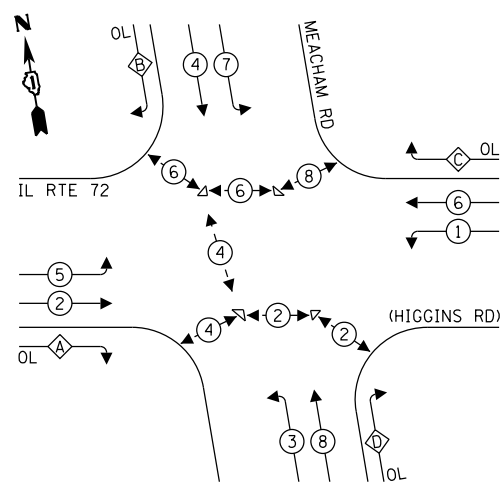
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN (SHEET 2 OF 2)
IL RTE 72 (HIGGINS RD) AT MEACHAM RD**

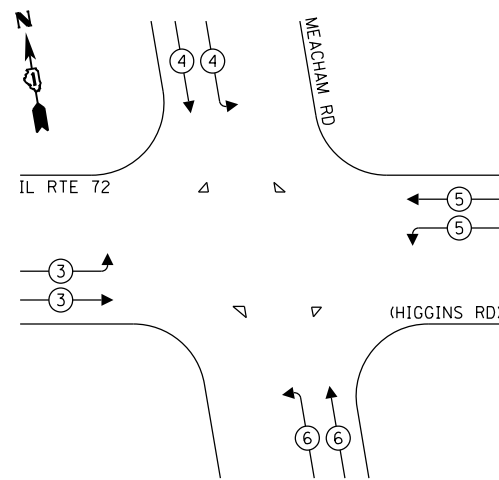
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	42
			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2 +	3
B	= 4 +	5
C	= 6 +	7
D	= 8 +	1

NOTE:

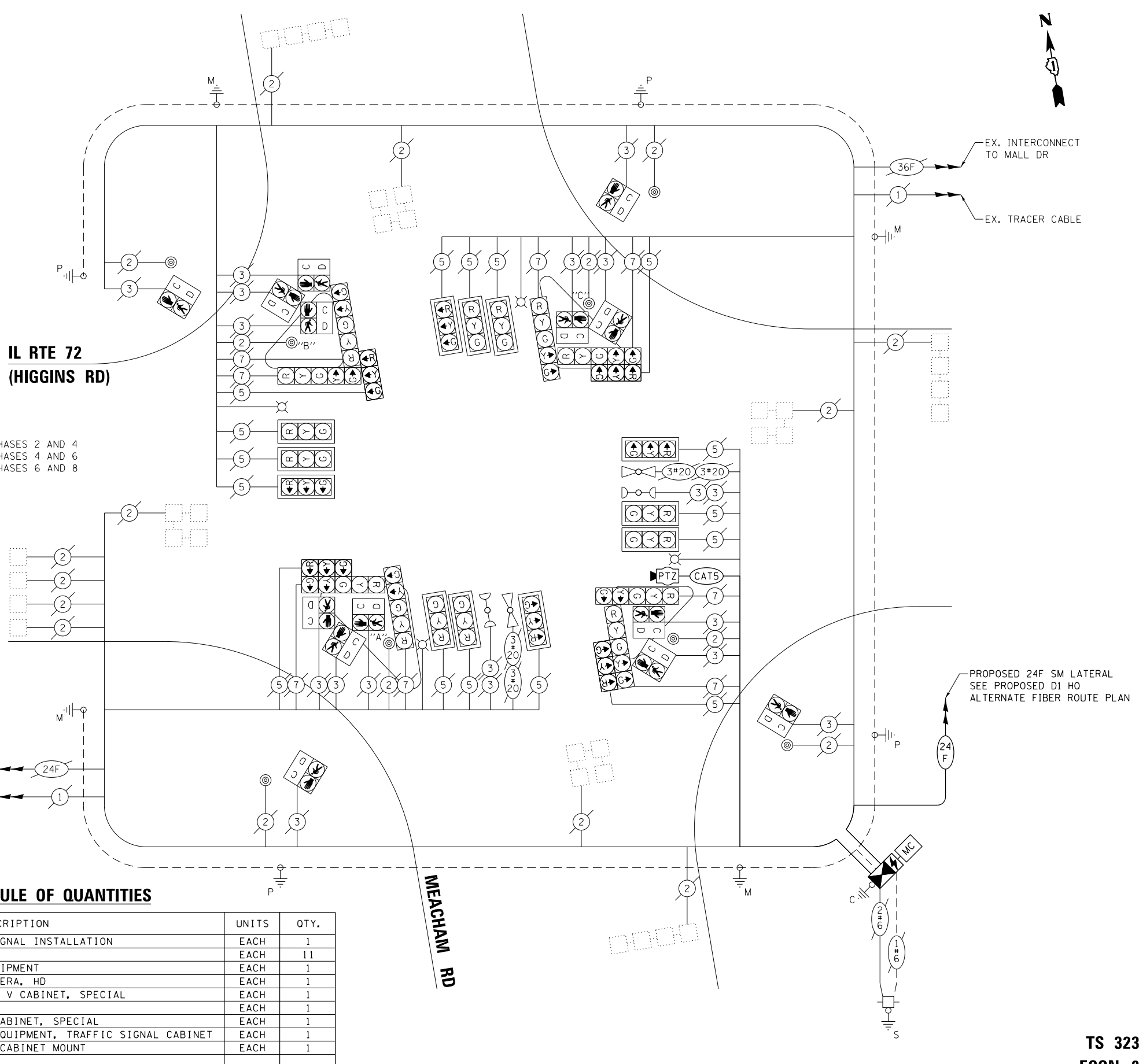
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

IL RTE 72 (HIGGINS RD)

EX. INTERCONNECT TO NATIONAL PKWY
 EX. TRACER CABLE

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
INDUCTIVE LOOP DETECTOR	EACH	11
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT, TRAFFIC SIGNAL CABINET	EACH	1
FIBER OPTIC PATCH PANEL, 24 PORT, CABINET MOUNT	EACH	1



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	24	11	50	132.0
(YELLOW)	24	20	5	24.0
(GREEN)	24	12	45	129.6
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	14	20	100	280.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				438.9

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 W CENTER CT
 SCHAUMBURG, IL 60196
 ENERGY SUPPLY: CONTACT: DAVE SCHACHT
 PHONE: (630) 437-2129
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

FILE NAME = USER NAME = plascencia
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 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 3/19/2018

DESIGNED - IP
 REVISIONS - IP 3/15/2018
 CHECKED - LP
 DATE - 2/8/2018

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE IL RTE 72 (HIGGINS RD) AT MEACHAM RD

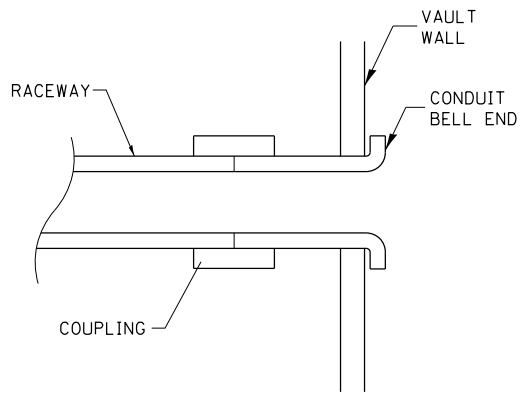
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	43
CONTRACT NO. 62C15				

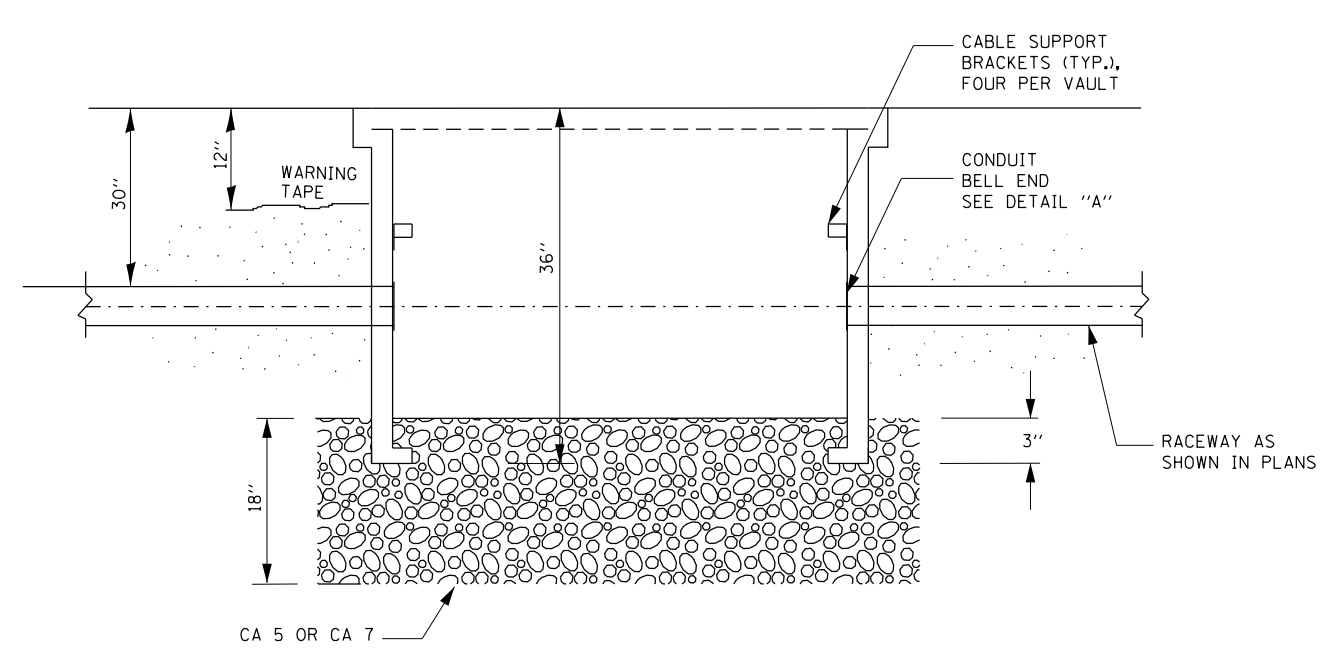
**TS 3230
 ECON 84**

PROPOSED 24F SM LATERAL
 SEE PROPOSED D1 HO
 ALTERNATE FIBER ROUTE PLAN

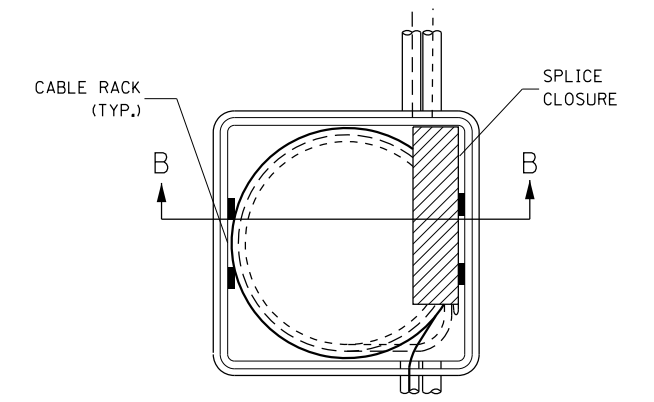
COMMUNICATIONS VAULT LOAD RATINGS			
COMPONENT	ANSI TIER	LOADING	
		DESIGN	TEST
BOX	22	22,500 lbs.	37,750 lbs.
COVER	22	22,500 lbs.	37,750 lbs.



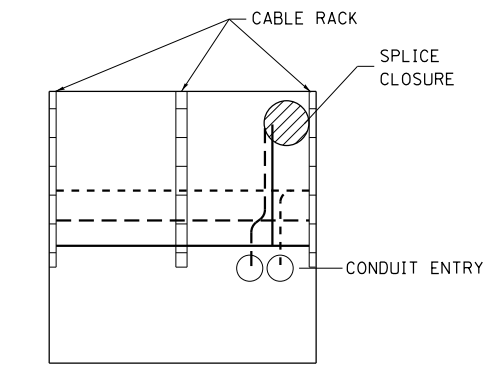
DETAIL A



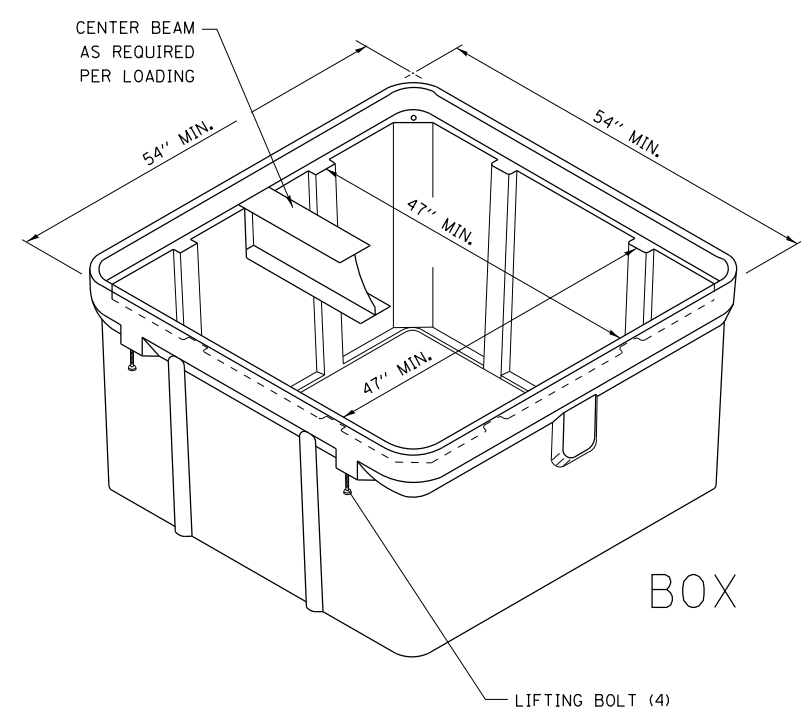
SECTION A-A



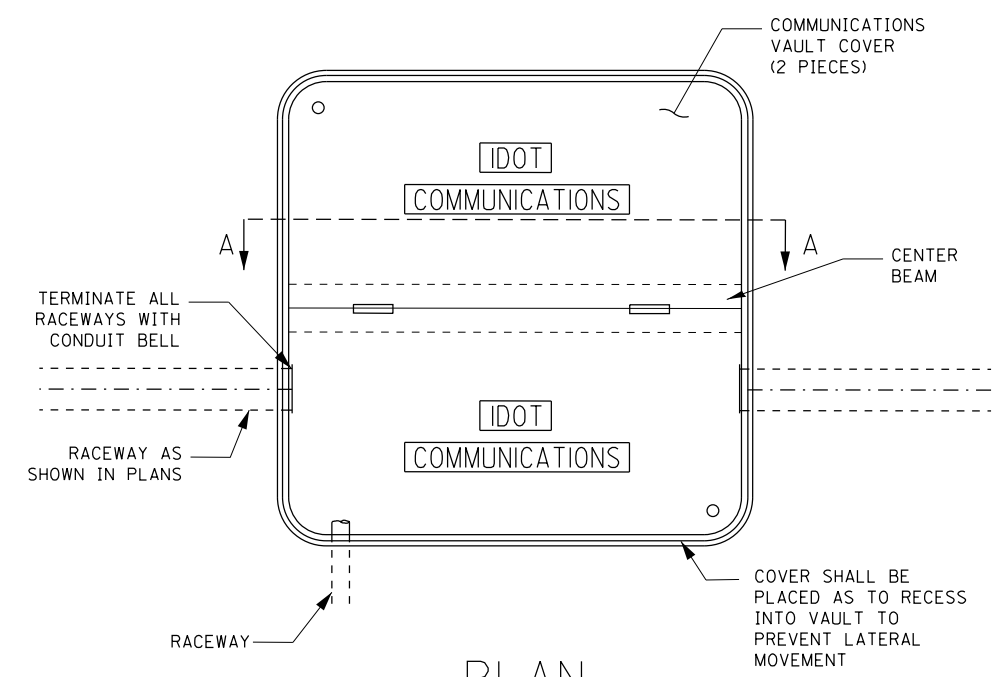
TOP VIEW



SECTION B-B



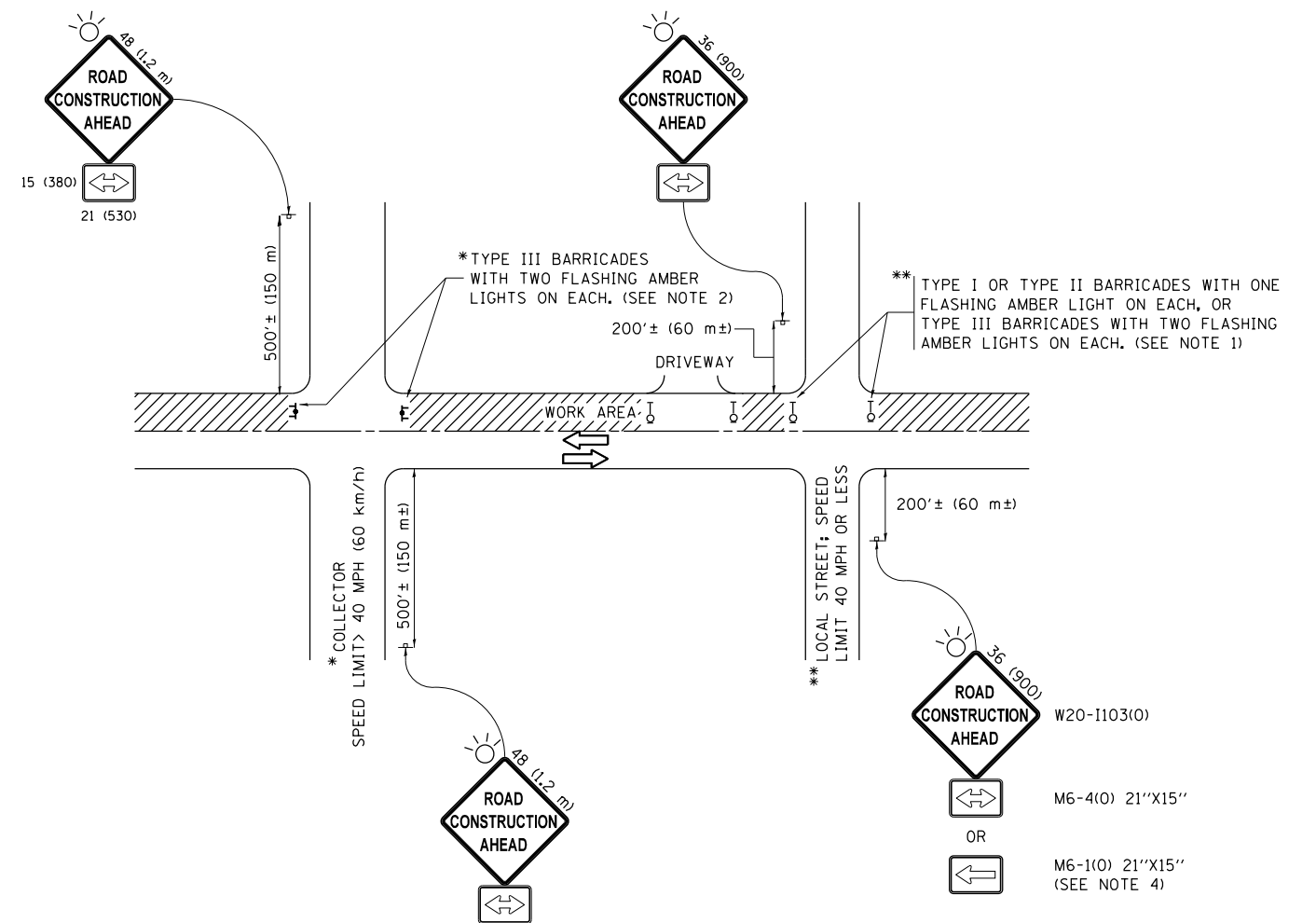
ISOMETRIC



PLAN

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
3. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
4. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.



NOTES:

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

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

FILE NAME =	USER NAME = plascencia	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI2811\Drawings\Traffic\DI28116-sht-ts			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 3/19/2018	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	44A
TC-10			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

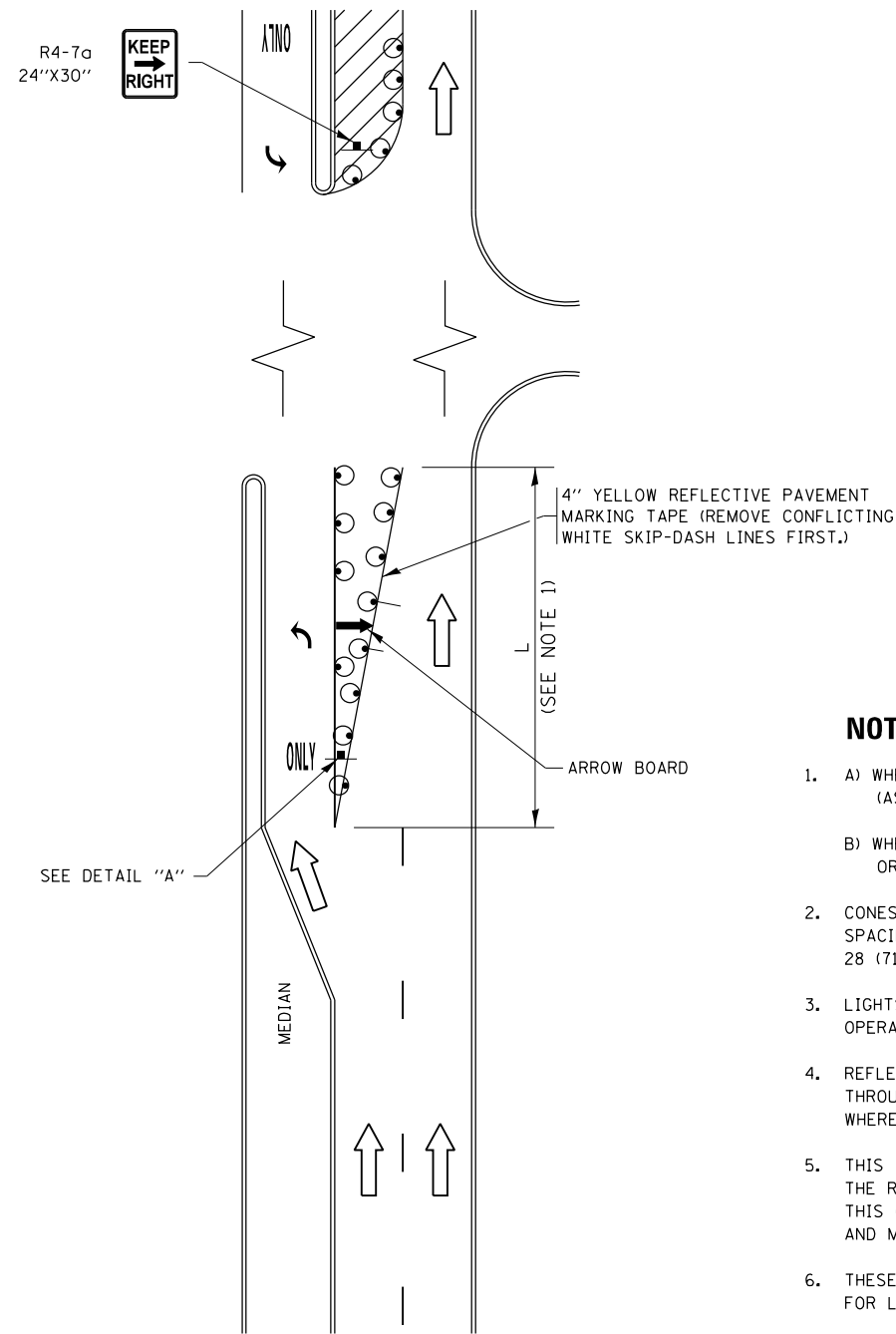


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

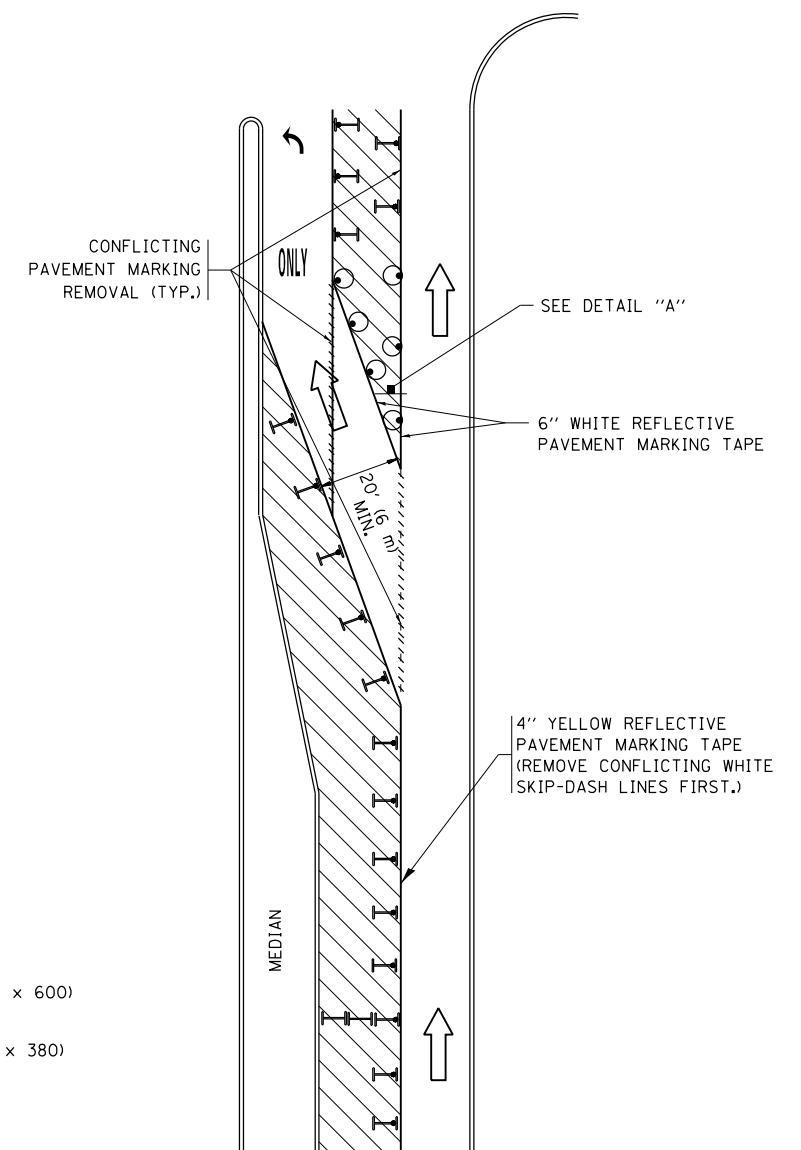


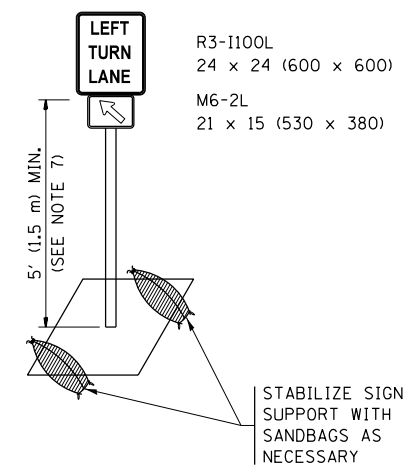
FIGURE 2

LEGEND

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

NOTES:

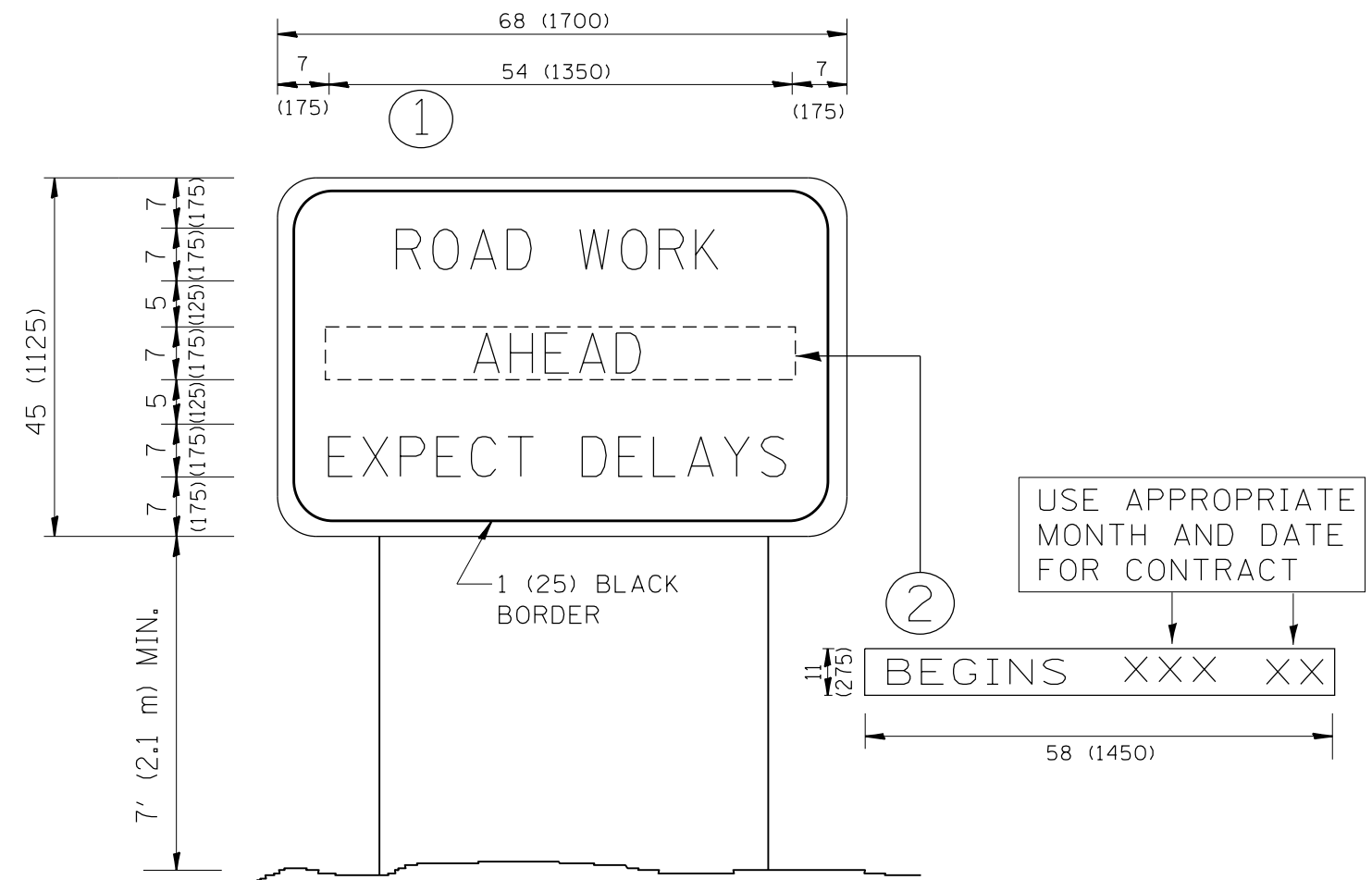
1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS.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



DETAIL A

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

FILE NAME =	USER NAME = plascencia	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI2811\REVISED Traffic AD HOUSEH-11-07-95	REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 07-01-13			VAR	2016-0061	COOK	53	44A
Default	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16			TC-14		CONTRACT NO. 62C15		ILLINOIS FED. AID PROJECT
	PLOT DATE = 3/19/2018	REVISED - T. RAMMACHER 01-06-00	REVISED -			SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.	



NOTES:

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

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

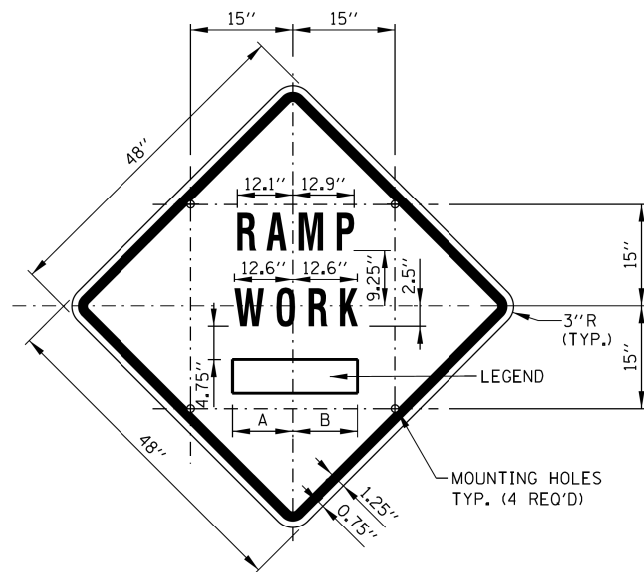
FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED - R. MIRS 09-15-97
p:\11\084EBIDINTEG.illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\128116\DRAWING\Traffic\128116-sht-ts		DRAWN -	REVISED - R. MIRS 12-11-97
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 2/8/2018	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.

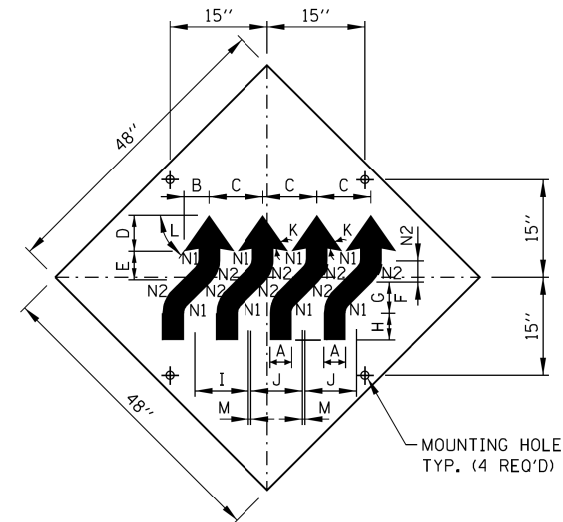
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2016-0061	COOK	53	45
TC-22			CONTRACT NO. 62C15	
ILLINOIS FED. AID PROJECT				



SIGN NO.	LEGEND	A	B
TS-2A	AHEAD	15.50"	15.50"
TS-2B	500 FT	14.25"	15.13"
TS-2C	1000 FT	14.88" L2	15.75" L2
TS-2D	1500 FT	14.88" L2	15.75" L2
TS-2E	1/2 MILE	15.75" L3	15.75" L3
TS-2F	1 MILE	13.06"	13.06"

SIGN TS-2 (O)

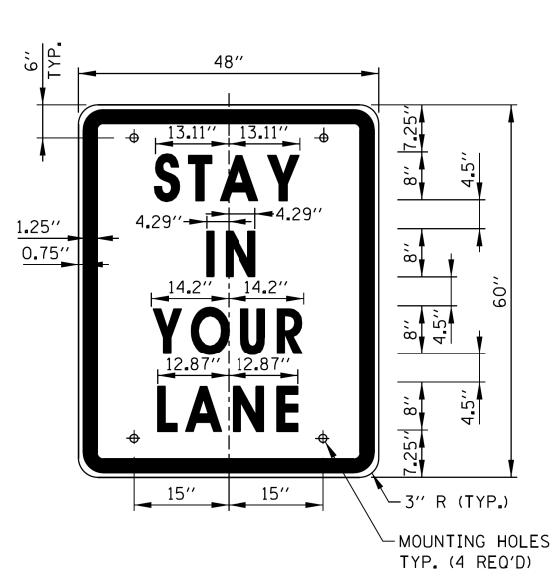
COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND SYMBOL - BLACK
 SIZE: 48"x48"
 LETTERING: 7" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN



A	4 1/2"
B	5 3/4"
C	12 1/2"
D	7 3/4"
E	6 1/2"
F	4 1/2"
G	6 1/2"
H	6"
I	12 3/4"
J	12"
K	45°
L	55°
M	3/4"
N1	2"
N2	6 1/2"

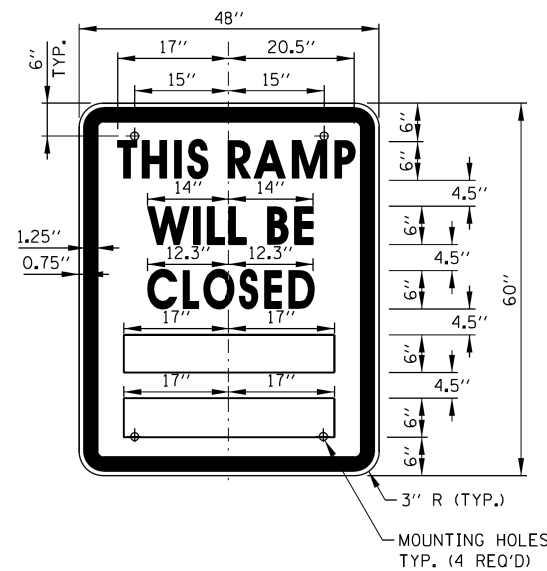
SIGN W1-4dR (O)

COLOR: BACKGROUND-FLUORESCENT ORANGE (O)
 TYPE A REFLECTIVE
 SHEETING PER STANDARD
 SPECIFICATIONS (* A)
 BORDER AND LETTERS-BLACK
 SIZE: 48"x48"
 MOUNTING HOLES: 7/16" DIA., 4 HOLES SPACED AS SHOWN.



SIGN TS-3

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: LEGEND - 8" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN

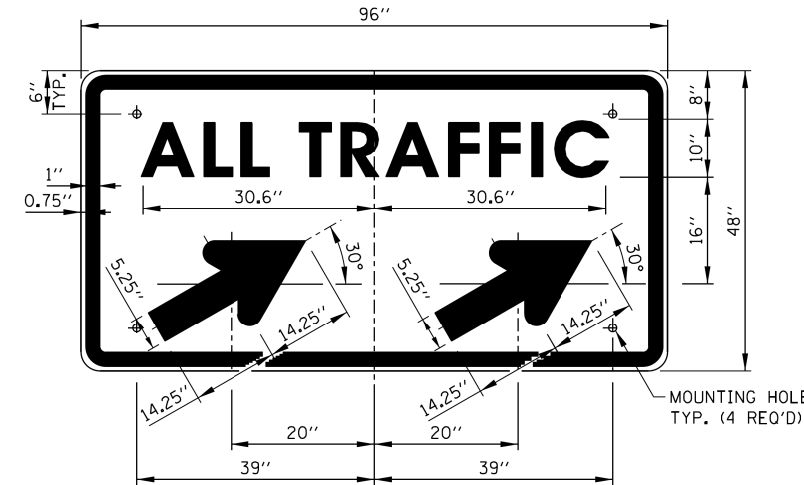


SIGN TS-4

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: LEGEND - 6" FEDERAL SERIES C
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN

RAMP CLOSURE ADVANCE INFORMATION SIGN

THE VARIABLE MESSAGE WITH DATES FOR THE BOTTOM TWO LINES SHALL BE DETERMINED BY THE ENGINEER AND GIVEN TO THE CONTRACTOR BEFORE THE REQUIRED FIELD ERECTION DATE.



SIGN TS-5a & TS-5b

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (* A)
 BORDER AND LETTERS - BLACK
 ARROW - BLACK
 SIZE: 96"x48"
 LETTERING: 10" FEDERAL SERIES D
 MOUNTING HOLES: 7/16" DIA., 4 HOLES, SPACED AS SHOWN
 NOTE: SIGN TS-5a IS SHOWN, SUBSTITUTE LEGEND "▲" FOR "▲▲" FOR SIGN TS-5b

NOTES:

- ALL LETTERING IS DESIGNATED BY SIZE AND SERIES IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. LETTERING SPACING SHALL BE IN ACCORDANCE WITH THIS GUIDE EXCEPT WHERE NOTED.
- SYMBOLS AND ARROWS SHALL CONFORM TO THE DETAILS SHOWN IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" AS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- SEE THE CONTRACT REQUIREMENTS FOR ADDITIONAL NOTES AND SPECIFICATIONS.
 (O) FLUORESCENT ORANGE REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
 (* A) - REFLECTIVE SHEETING PER THE STANDARD SPECIFICATIONS.
- DIMENSIONS INDICATED THUS L ARE BASED ON A REDUCTION IN STANDARD LETTERING SPACING AS SHOWN BELOW:
 L1 SPACING REDUCED BY 25%
 L2 SPACING REDUCED BY 40%
 L3 SPACING REDUCED BY 50%

SHEET 1 OF 2

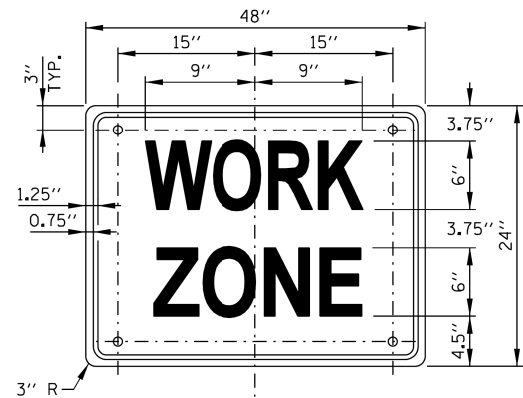


CONSTRUCTION SIGNS

STANDARD E1-06

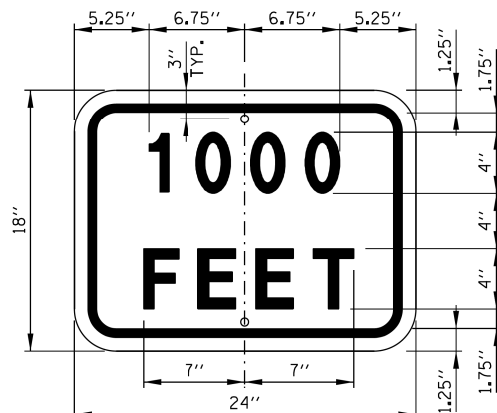
DATE	REVISIONS
05-01-09	DELETED FLASHING ARROW BOARDS
01-01-11	ADDED SIGN COLOR DESIGNATION
11-01-12	DELETED SIGN TS-1
03-31-14	REVISED FINE SIGN NUMBER AND ADDED LED SPEED LIMIT DISPLAY
3-11-2015	REVISED NOTES
3-31-2017	REVISED END WZSL SIGN COLOR

APPROVED: *Paul Kovacs* CHIEF ENGINEER DATE: 5-1-2009



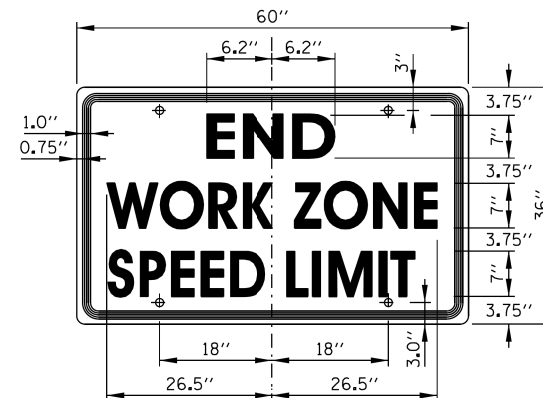
SIGN G20-I102 (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x24"
 LETTERING: 6" FEDERAL SERIES C
 MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN



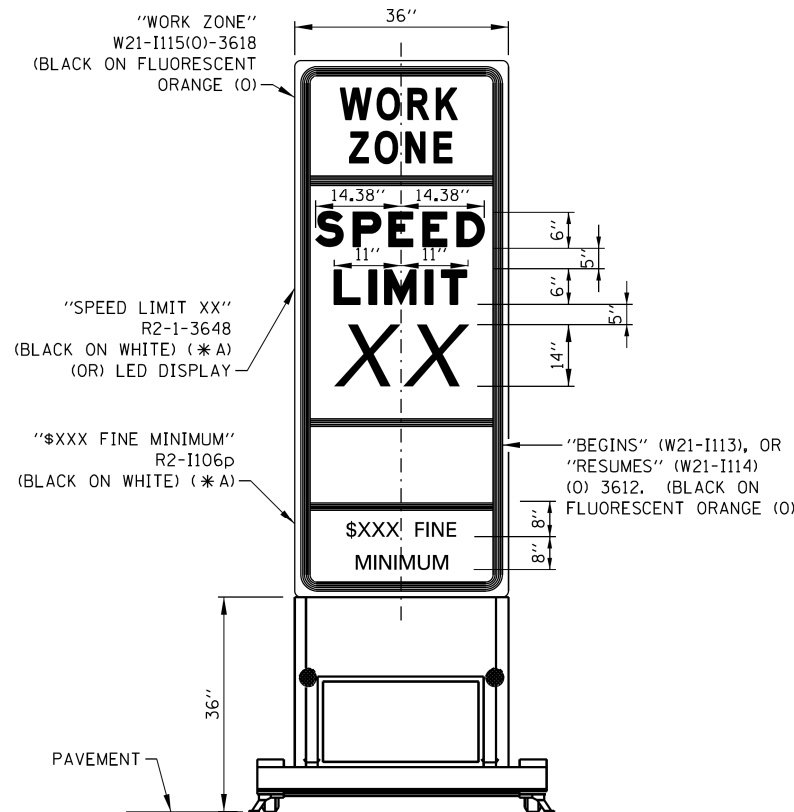
SUPPLEMENTAL PLATE (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND LETTERS - BLACK
 SIZE: 24"x18"
 LETTERING: 4" FEDERAL SERIES D
 MOUNTING HOLES: 1/16" DIA., 2 HOLES SPACED AS SHOWN

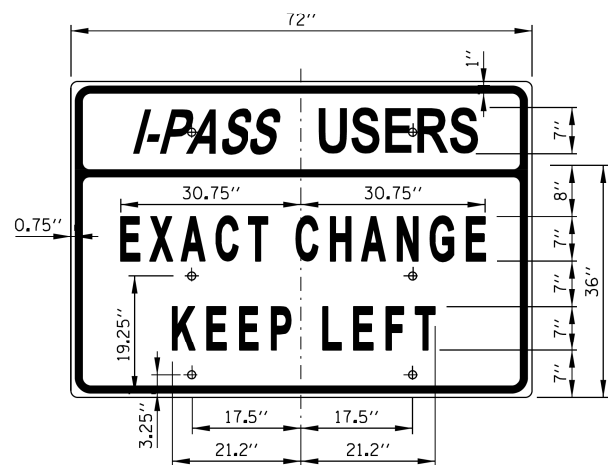


SIGN G20-I103

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
 BORDER AND LETTERS - BLACK
 SIZE: 60"x36"
 LETTERING: 6" FEDERAL SERIES C
 MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN

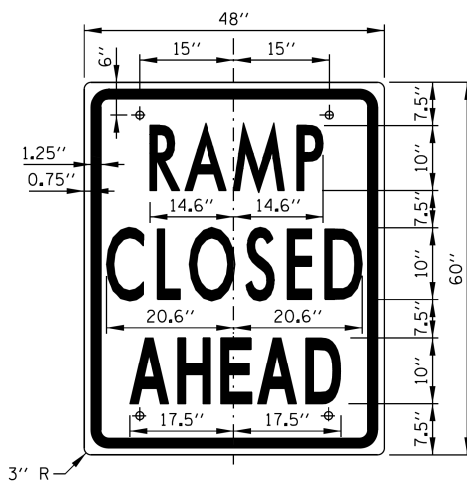


WORK ZONE SPEED LIMIT SIGN ASSEMBLY



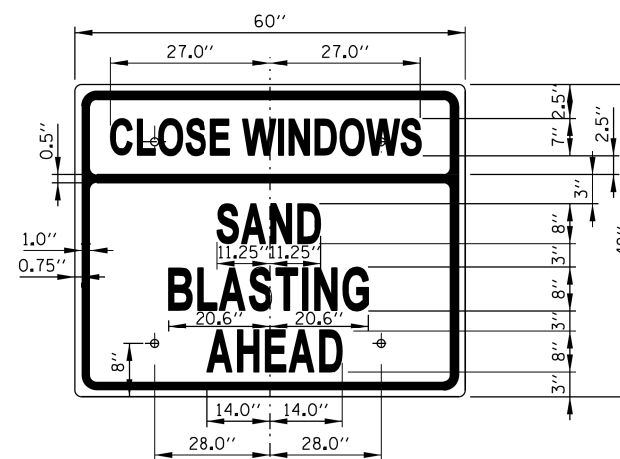
SIGN TS-7

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
 BORDER AND LETTERS - BLACK
 SIZE: 72"x36"
 LETTERING: 7" FEDERAL SERIES C
 MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN



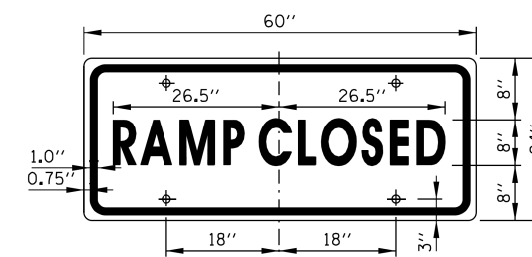
SIGN TS-9

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
 BORDER AND LETTERS - BLACK
 SIZE: 48"x60"
 LETTERING: 10" FEDERAL SERIES C
 MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-10 (O)

COLOR: BACKGROUND - FLUORESCENT ORANGE (O)
 BORDER AND LETTERS - BLACK
 SIZE: 60"x48"
 LETTERING: 8" FEDERAL SERIES C, 7" FEDERAL SERIES B
 MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN



SIGN TS-6

COLOR: BACKGROUND - WHITE (REFLECTORIZED) (*A)
 BORDER AND LETTERS - BLACK
 SIZE: 60"x24"
 LETTERING: 8" FEDERAL SERIES C
 MOUNTING HOLES: 1/16" DIA., 4 HOLES SPACED AS SHOWN

SHEET 2 OF 2



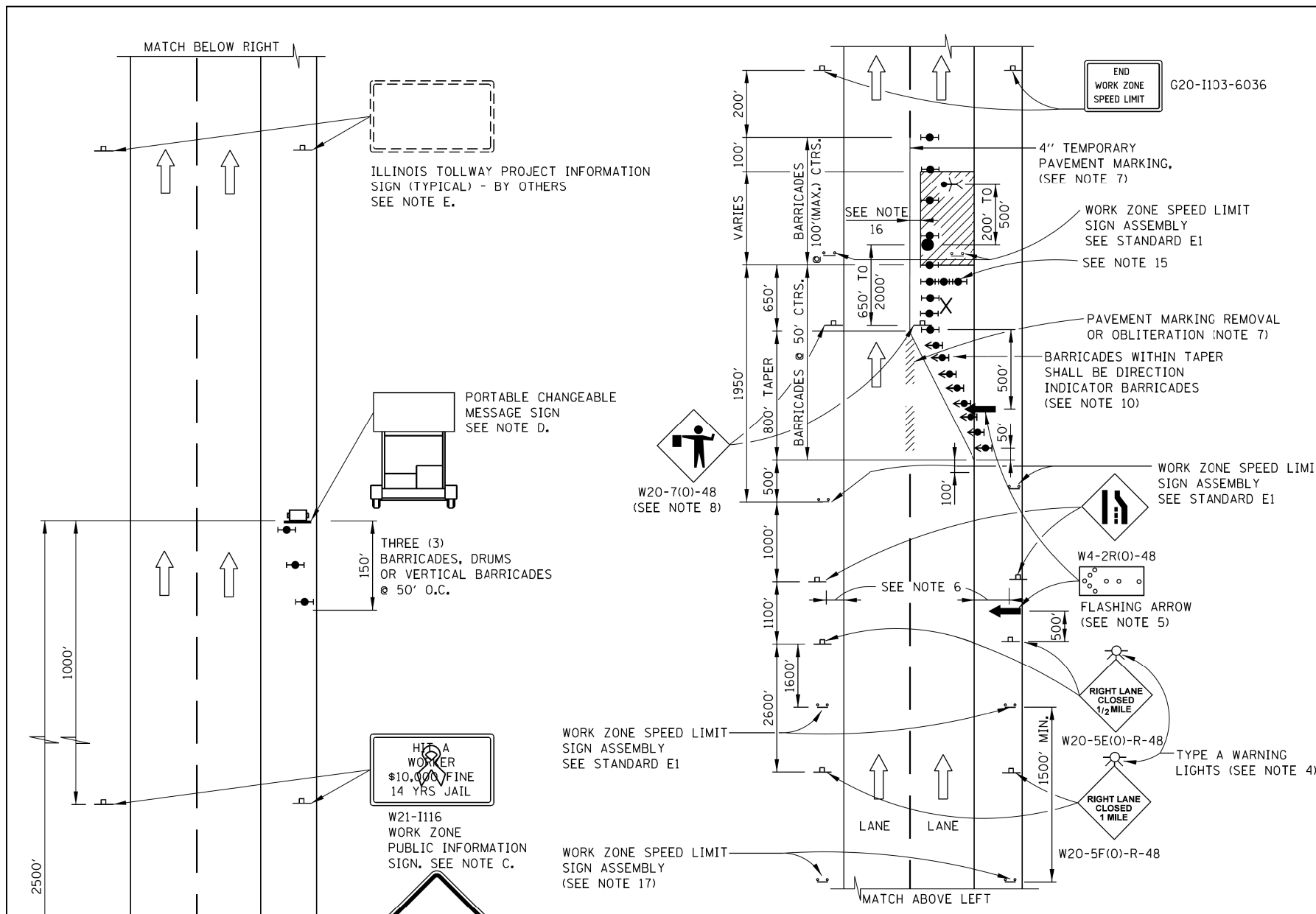
CONSTRUCTION SIGNS

STANDARD E1-06

NOTE:
 SEE SHEET 1 OF THIS SERIES FOR NOTES.

APPROVED: *Paul Kovacs* DATE: 5-1-2009
 CHIEF ENGINEER

FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOLLWAY HIGHWAY STANDARD E1-06 CONSTRUCTION SIGNS	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI2811\Drawings\Traffic\DI28116-sht-ts		DRAWN -	REVISED -			VAR	2016-0061	COOK	53	47	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62C15					
	PLOT DATE = 2/8/2018	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO



LANE CLOSURE NOTES:

- IF CLOSURES ARE EXPECTED TO PRODUCE TRAFFIC BACKUPS EXTENDING BEYOND THE FIRST WARNING SIGN SHOWN ON THE DETAILS, ADDITIONAL UPSTREAM SIGNS SHALL BE PLACED SO THAT THE TRAFFIC CONTROL ZONE ENCOMPASSES THE ANTICIPATED BACKUP ZONE.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- THESE DETAILS ALSO APPLY TO OPPOSITE HAND LANE CLOSURES BY CHANGING SIGN LEGENDS AND ARROW DIRECTIONS TO INDICATE THE APPROPRIATE CLOSURE.
- FOR NIGHT TIME CLOSURES, ONE TYPE A WARNING LIGHT SHALL BE INSTALLED ABOVE EACH OF THE 1 MILE AND 1/2 MILE ADVANCE WARNING SIGNS. FOR DAYLIGHT-ONLY CLOSURES, THE LIGHTS MAY BE OMITTED.
- FOR ANY LANE CLOSURE, FLASHING ARROW BOARDS SHALL BE REQUIRED AND IN OPERATION AT ALL TIMES. THE FLASHING ARROW BOARD IN ADVANCE OF THE TAPER SHALL BE PROTECTED WITH THREE TYPE II BARRICADES AT 50' O.C.
- CONSTRUCTION SIGNS SHALL GENERALLY BE POST-MOUNTED OR ATTACHED TO PORTABLE SUPPORTS AND SHALL BE INSTALLED 8' TO 12' FROM ADJACENT TRAVEL LANE WHEREVER POSSIBLE. IN NO CASE SHALL SIGNS BE LOCATED TO PROVIDE LESS THAN 2' CLEARANCE BETWEEN EDGE OF SIGN AND ADJACENT TRAVEL LANE.
- PAVEMENT MARKING TAPE AND REMOVAL OR OBLITERATION OF EXISTING MARKINGS SHALL BE REQUIRED WHEN THE CLOSURE TIME EXCEEDS FOUR DAYS. THIS WORK SHALL BE MEASURED AND PAID FOR SEPARATELY.
- WHEN A FLAGGER IS NOT ON STATION, THE FLAGGER SIGN SHALL BE PROMPTLY REMOVED, COVERED OR TURNED TO FACE AWAY FROM TRAFFIC. FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY, PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- WORK ZONE SPEED LIMIT SIGN ASSEMBLIES, SHALL BE PLACED ADJACENT TO THE OPEN TRAFFIC LANE(S). WORK ZONE SPEED SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN SIGNS AND THE WORKERS IN EACH SEPARATE WORK ACTIVITY PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS.
- DIRECTION INDICATOR BARRICADES SHALL BE USED IN LANE TAPERS.
- FOR CLOSURES OTHER THAN SHORT TERM (SUNRISE TO ONE HOUR BEFORE SUNSET), THE MINIMUM HEIGHT OF THE SIGN FROM SHOULDER ELEVATION SHALL BE 7'-0".
- CONES MAY BE USED IN LIEU OF BARRICADES IN THE BUFFER AND WORK AREAS, WHEN THE CLOSURE IS FOR MAINTENANCE OPERATIONS.
- BARRICADES ARE TO BE LOCATED AT JOINT LINE WHEN WORK AREA EXTENDS UP TO JOINT UNLESS OTHERWISE SHOWN ON THE PLANS.
- SEE MAINTENANCE OF TRAFFIC DRAWINGS FOR ADDITIONAL SIGNING IN THIS AREA.
- CHECK BARRICADES SHALL BE PLACED IN THE MIDDLE OF THE CLOSED LANE AND AT THE SHOULDER AT 1000 FOOT CENTERS.
- A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.
- ADDITIONAL WORK ZONE SPEED LIMIT SIGNS SHALL BE PLACED WHEN DIFFERENCE BETWEEN POSTED TO WORK ZONE SPEED LIMIT IS > 20 M.P.H.

ONE-LANE CLOSURE WITH BARRICADE

ADVANCE SIGNING NOTES:

- THE ADVANCE SIGNING SHOWN ON THIS STANDARD SHALL APPLY ANY TIME THE CONTRACTOR CLOSES ONE OR MORE LANES, OR IS REQUIRED TO SHIFT THE LANE ALIGNMENT. THE "ROAD WORK AHEAD" OR "ROAD CONSTRUCTION AHEAD" SIGNS, WORK ZONE PUBLIC INFORMATION SIGNS AND PORTABLE CHANGEABLE MESSAGE ARE STATIONARY.
- THE ROAD CONSTRUCTION AHEAD SIGN (W20-1A, WITH W16-3A SUPPLEMENTAL PLATE) OR ROAD WORK AHEAD SIGN (W20-1, WITH W16-3A SUPPLEMENTAL PLATE) SHALL BE LOCATED UP TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS, WITH THE LOCATION BEING DETERMINED BY THE ENGINEER.
- THE WORK ZONE PUBLIC INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
- THE PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE USED TO DISPLAY THE STATUS OF LANE WITHIN THE CONTRACT LIMITS. THE PRIMARY MESSAGES SHALL BE: "RIGHT LANE(S) CLOSED" / "X MILES AHEAD", "LEFT LANE(S) CLOSED" / "X MILES AHEAD", "LANE(S) SHIFT" / "X MILES AHEAD", "ALL LANES OPEN". THE PORTABLE CHANGEABLE MESSAGE SIGN MAY BE MOVED TO THE MEDIAN SHOULDER WHEN THE LANE CLOSURES ARE ON THE LEFT, PROVIDED THE EXISTING SHOULDER WIDTH IS ADEQUATE.
- THE ILLINOIS TOLLWAY WILL FURNISH AND INSTALL STATIC PROJECT INFORMATION SIGNS IN ADVANCE, THROUGH AND AT THE END OF THE WORK ZONE. THESE SIGNS WILL BE INSTALLED ALONG THE OUTSIDE SHOULDER WITH THE ADVANCE SIGNS LOCATED BEYOND THE PORTABLE CHANGEABLE MESSAGE SIGN. THE ENGINEER AND CONTRACTOR SHALL COORDINATE WITH THE ILLINOIS TOLLWAY REGARDING THE LOCATION OF THESE SIGNS AND NOTIFY THE ILLINOIS TOLLWAY OF ANY DAMAGE TO THE SIGNS OR SUPPORTS.

LEGEND

- ARROW BOARD
- WORK AREA
- SIGN
- DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- WORKER
- LANE CLOSED

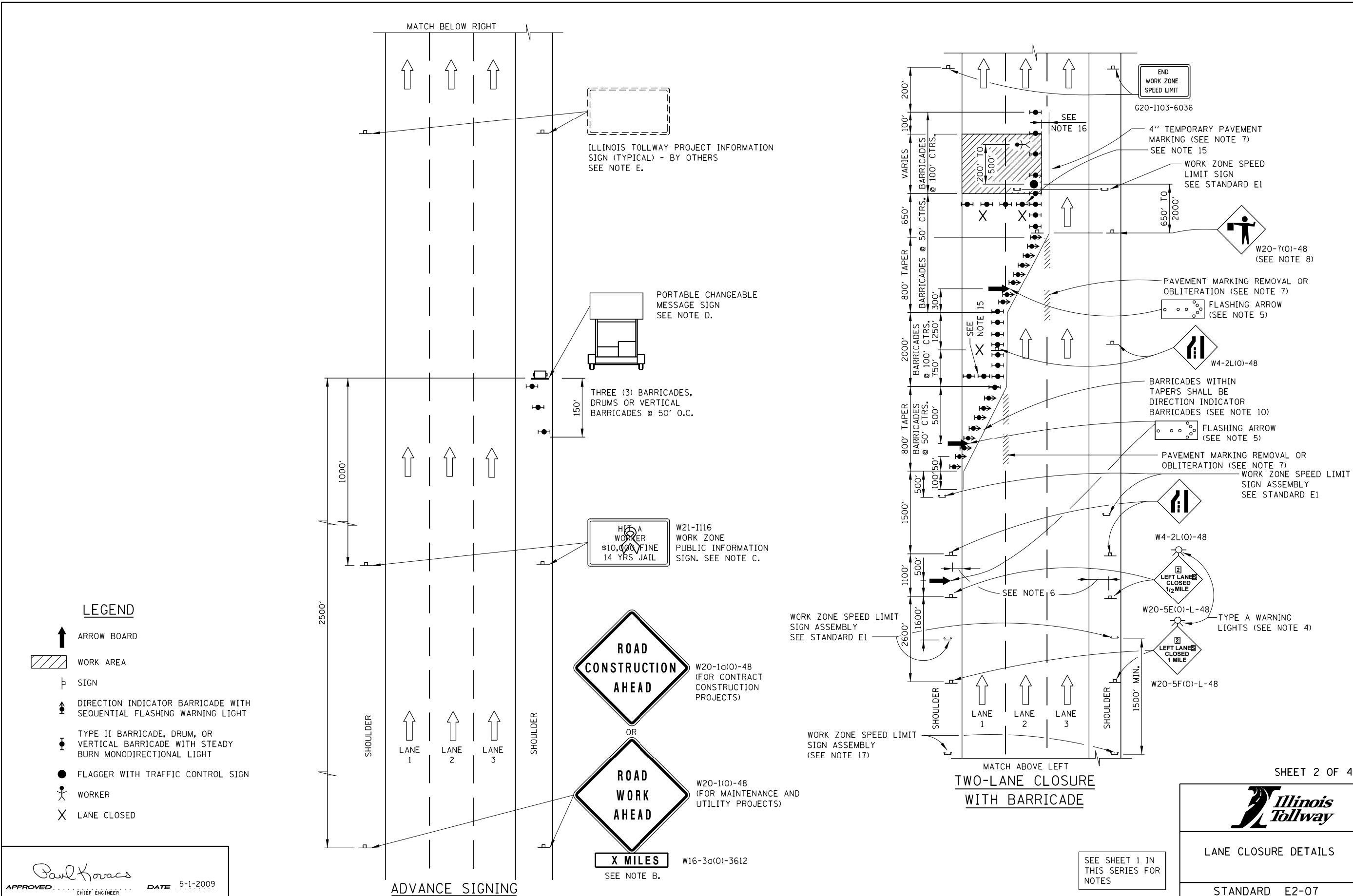


LANE CLOSURE DETAILS

STANDARD E2-07

DATE	REVISIONS
11-01-12	ADDED THREE LANE CLOSURE
03-31-14	REVISED BUFFER SPACE, TAPER DIMENSIONS AND REVISED NOTES.
3-11-2015	REVISED NOTES.
3-31-2016	ADDED LANE CLOSURE WITH BARRIER AND ADDED SEQUENTIAL FLASHING WARNING LIGHT.
3-31-2017	ADDED TAPER RATE TABLE

APPROVED *Paul Kovacs* CHIEF ENGINEER DATE 5-1-2009



SHEET 2 OF 4

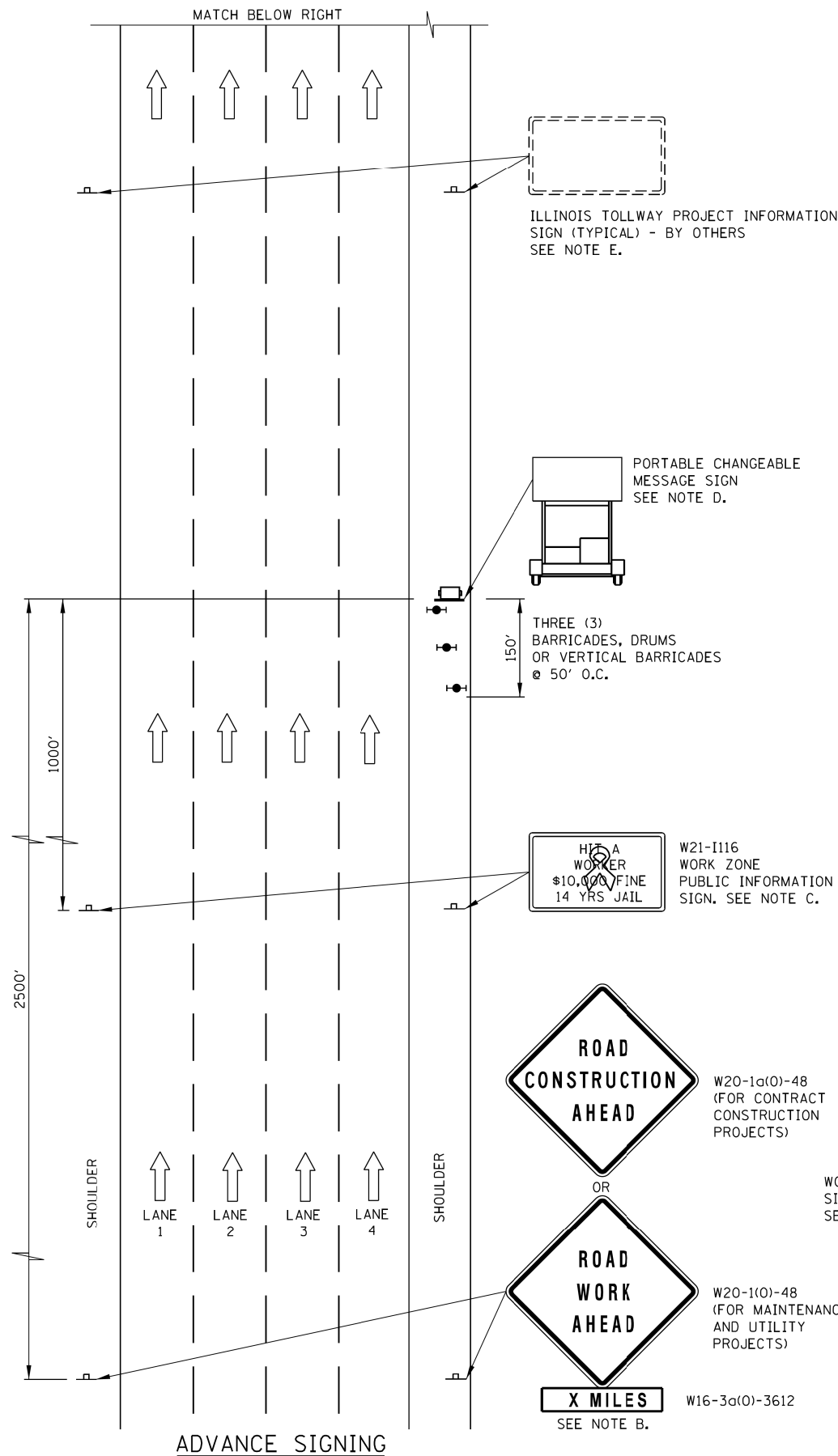
Illinois Tollway

LANE CLOSURE DETAILS

STANDARD E2-07

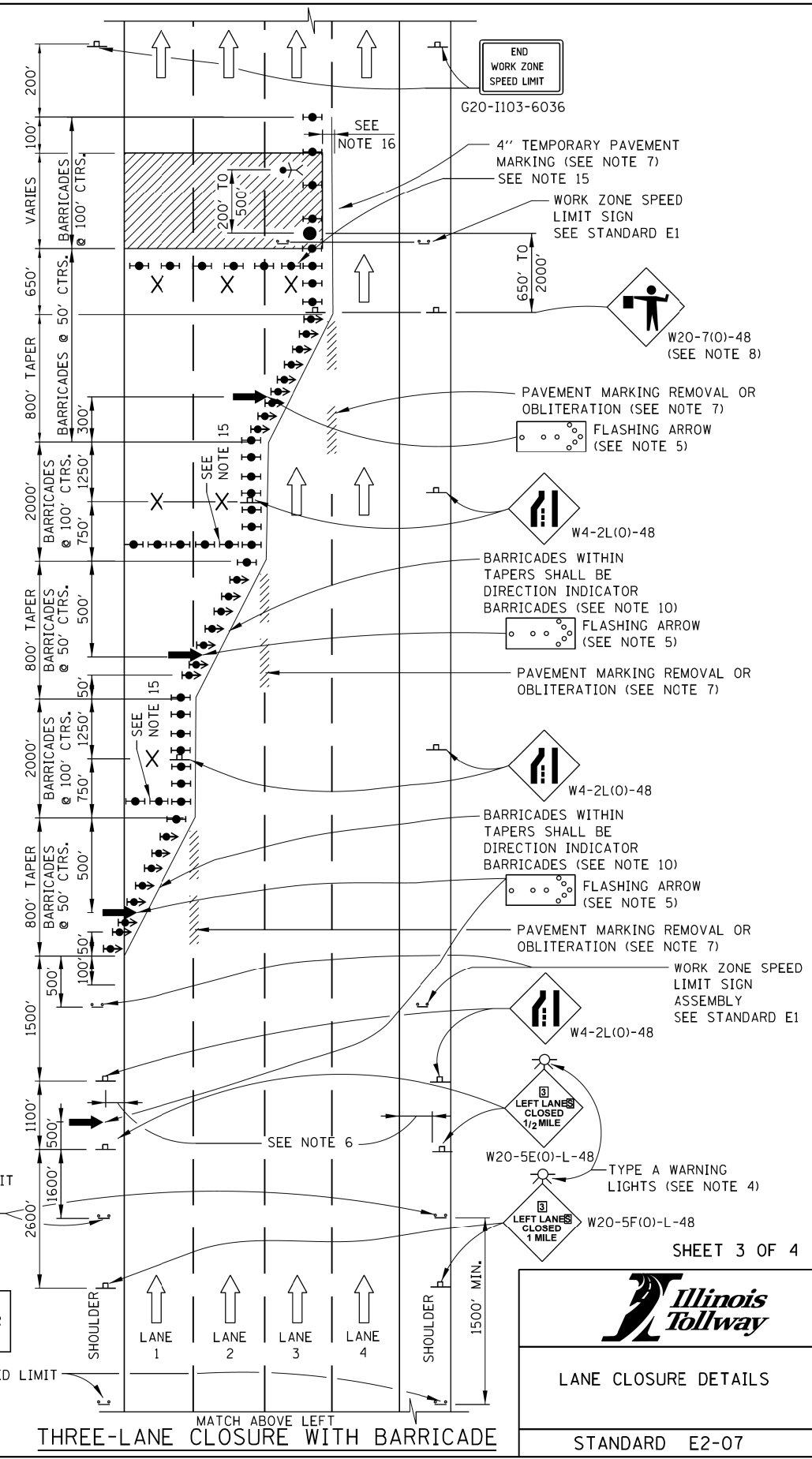
Paul Kovacs
 APPROVED CHIEF ENGINEER DATE 5-1-2009

FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOLLWAY HIGHWAY STANDARD E2-07 LANE CLOSURE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\l\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\12811\Drawings\Traffic\128116-sht-ts		CHECKED -	REVISED -			VAR	2016-0061	COOK	53	49	
PLOT SCALE = 100.0000' / in.		DATE - 2/8/2018	REVISED -			CONTRACT NO. 62C15					
Default						ILLINOIS FED. AID PROJECT					



- LEGEND**
- ARROW BOARD
 - WORK AREA
 - SIGN
 - DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
 - TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - FLAGGER WITH TRAFFIC CONTROL SIGN
 - WORKER
 - LANE CLOSED

Paul Kovacs
 APPROVED CHIEF ENGINEER DATE 5-1-2009

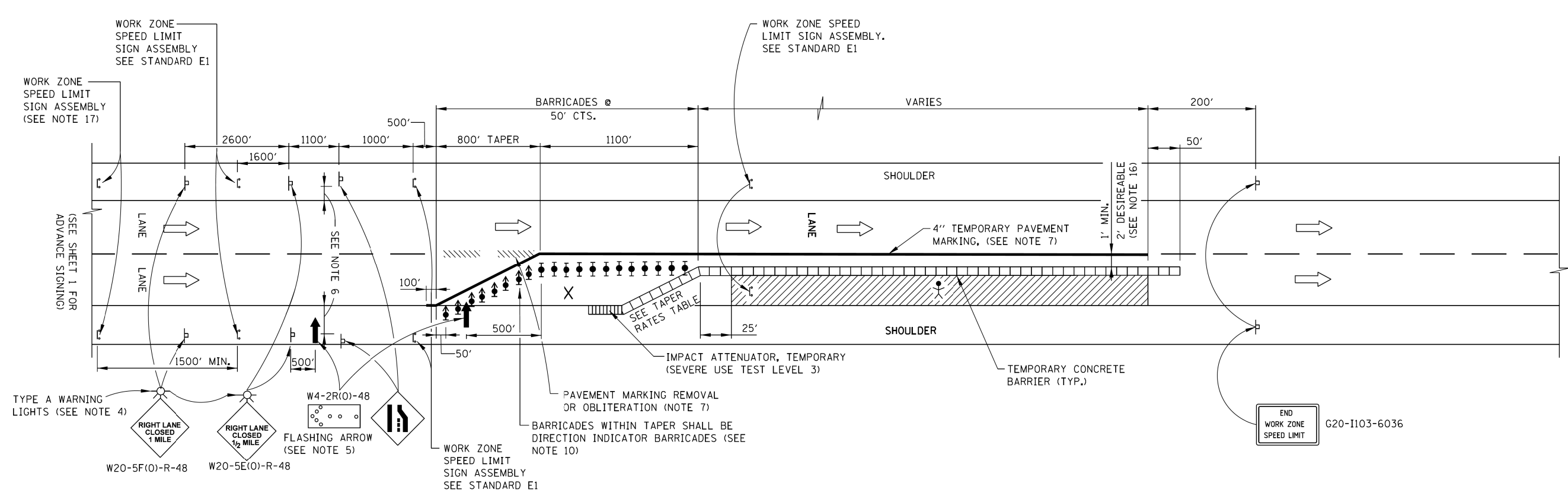


SHEET 3 OF 4

LANE CLOSURE DETAILS

STANDARD E2-07

FILE NAME =	USER NAME = plascencia	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOLLWAY HIGHWAY STANDARD E2-07 LANE CLOSURE DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
pw\l\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI2811\Drawings\Traffic\DI28116-sht-ts		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	VAR	2016-0061	COOK	53	50
Default		DATE - 2/8/2018	REVISED -		ILLINOIS FED. AID PROJECT	CONTRACT NO. 62C15										



ONE-LANE CLOSURE WITH BARRIER

TAPER RATES

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

- LEGEND**
- ARROW BOARD
 - WORK AREA
 - SIGN
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - DIRECTION INDICATOR BARRICADE WITH SEQUENTIAL FLASHING WARNING LIGHT
 - TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - WORKER
 - LANE CLOSED

NOTE:
SEE SHEET 1 OF THIS SERIES FOR NOTES.

SHEET 4 OF 4

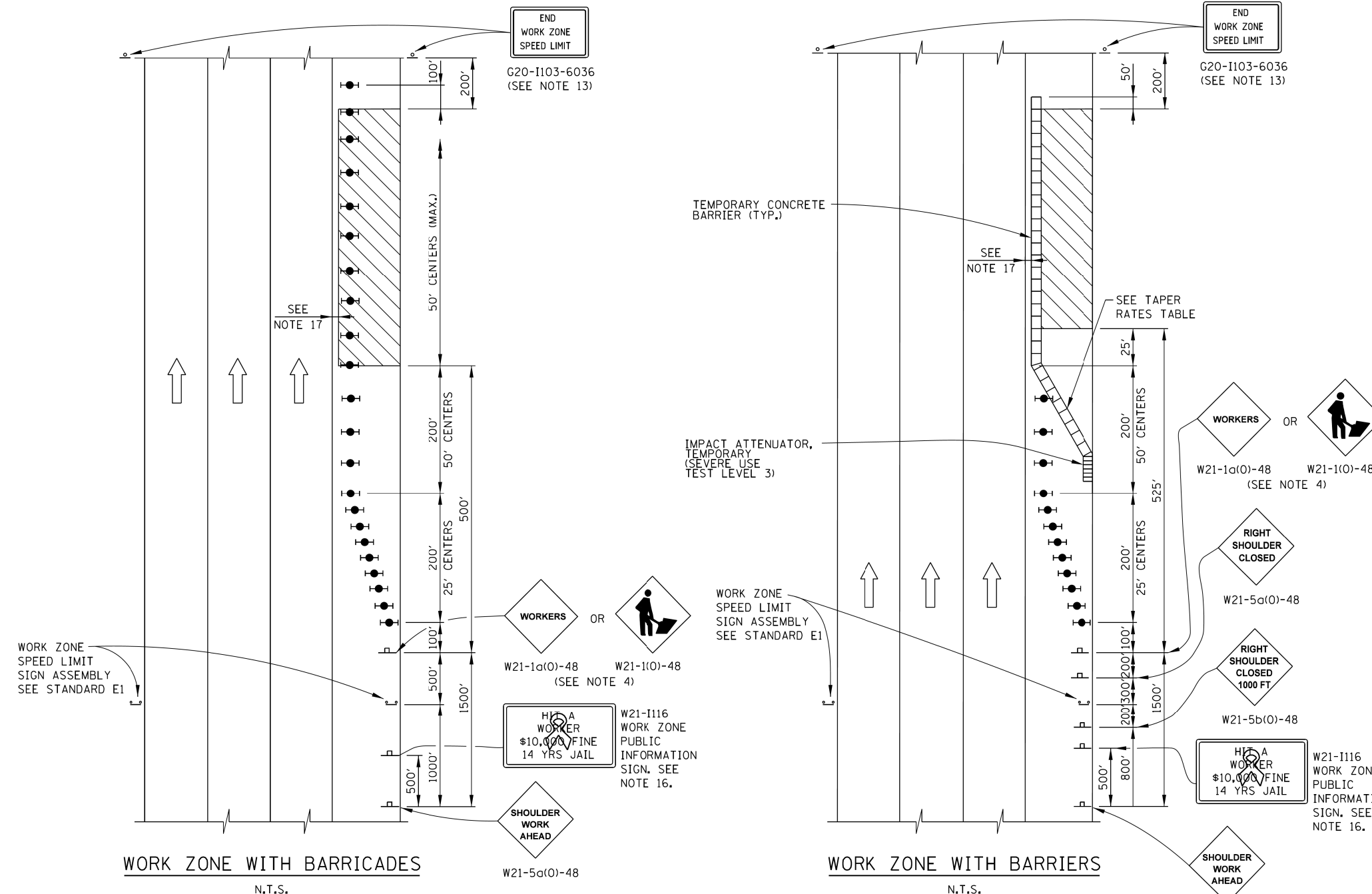
LANE CLOSURE DETAILS

STANDARD E2-07

APPROVED DATE 3-31-2016

GENERAL NOTES:

1. THE SHOULDER SHALL BE CLOSED WHEN A WORK ACTIVITY REQUIRING 15 OR MORE MINUTES IS PERFORMED AT A DISTANCE WHICH IS LESS THAN 15 FEET BUT NO CLOSER THAN 2 FEET FROM THE EDGE OF PAVEMENT.
2. THE ADJACENT EXTERIOR LANE SHALL BE CLOSED WHEN WORK IS PERFORMED WITHIN 2 FEET FROM THE EDGE OF PAVEMENT.
3. THE CHANNELIZING DEVICES WHICH SEPARATE THE WORK SPACE FROM THE ADJACENT TRAVEL LANE SHALL BE SPACED AT 25' FOR (200 FEET) AND AT A MAXIMUM OF 50' FOR ALL ADDITIONAL DEVICES.
4. WHEN THE WORKSITE IS UNATTENDED, SUBSTITUTE - "SHOULDER WORK AHEAD" SIGN.
5. WORKER SIGNS OR SHOULDER WORK SIGNS AND CHANNELIZATION DEVICES ARE PLACED ONLY ON THE SIDE OF THE ROADWAY ON WHICH THE ACTIVITY IS PERFORMED.
6. FOR SHOULDER CLOSURE EXTENDING OVERNIGHT, BARRICADE TYPE II WITH STEADY BURNING LIGHT, TYPE C SHALL BE USED.
7. FOR SHORT TERM CLOSURE (SUNRISE TO ONE HOUR BEFORE SUNSET) NOT EXTENDING INTO DARKNESS, CONES MAY BE USED.
8. ONE WORK ZONE SPEED LIMIT SIGN ASSEMBLY SHALL BE PLACED AT A DISTANCE OF 500' TO 2,500' MAXIMUM IN ADVANCE OF WORKERS THROUGHOUT THE SHOULDER CLOSURE. MOVING OPERATIONS MAY REQUIRE CONTINUOUS ADJUSTMENT OF THE SIGN ASSEMBLY LOCATION TO MAINTAIN THE ABOVE INTERVAL.
9. AN ADDITIONAL SIGN ASSEMBLY SHALL BE PLACED 500' BEYOND THE LAST ENTRANCE RAMP FOR EACH INTERCHANGE THAT FALLS WITHIN THE 2,500'.
10. THE SIGN ASSEMBLY SHALL BE PLACED NO CLOSER THAN 500' TO ANY OTHER SIGN.
11. THE WORK ZONE SPEED LIMIT SIGNS AND SIGN ASSEMBLY SHALL BE PROMPTLY REMOVED OR COVERED WHEN SHOULDER CLOSURE IS NOT IN USE.
12. ALL CONFLICTING SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED.
13. "END WORK ZONE SPEED LIMIT" SIGNS SHALL BE IN PLACE ONLY WHEN THE EXISTING POSTED SPEED > 55MPH.
14. FOR SHOULDER REPAIRS OR REPLACEMENT THE CHANNELIZING DEVICES SHALL BE PLACED AT THE EDGE OF PAVEMENT WHENEVER THE WORK ACTIVITIES RESULT IN A DROPOFF AT THE EDGE OF PAVEMENT.
15. ANY UNATTENDED OBSTACLE OR EXCAVATION LEFT ON THE SHOULDER OVERNIGHT SHALL BE IN COMPLIANCE WITH THE ROADWAY TRAFFIC CONTROL AND COMMUNICATIONS MANUAL.
16. THE WORK ZONE PUBLIC INFORMATION SIGN IS 60" WIDE BY 48" HIGH. THE CONTRACTOR SHALL OBTAIN THE CAMERA-READY ARTWORK REQUIRED FOR THE SIGN MESSAGE BY CONTACTING IDOT'S CENTRAL BUREAU OF OPERATIONS.
17. A 1'-0" MINIMUM/2'-0" DESIRABLE SHY DISTANCE SHALL BE PROVIDED, MEASURED BETWEEN EDGE OF PAVEMENT LANE MARKING TO THE EDGE OF THE TRAFFIC CONTROL DEVICE.



TAPER RATES

WORK ZONE SPEED (mph)	SHY LINE (ft.)	BARRIER INSIDE SHY LINE	BARRIER AT OR BEYOND SHY LINE
65	8.5	28:1	19:1
60	8	26:1	18:1
55	7	24:1	16:1
50	6.5	21:1	14:1
45	6	18:1	12:1
40	5	16:1	10:1
35	4.5	15:1	9:1
30	4	13:1	8:1

LEGEND

- WORK AREA
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT

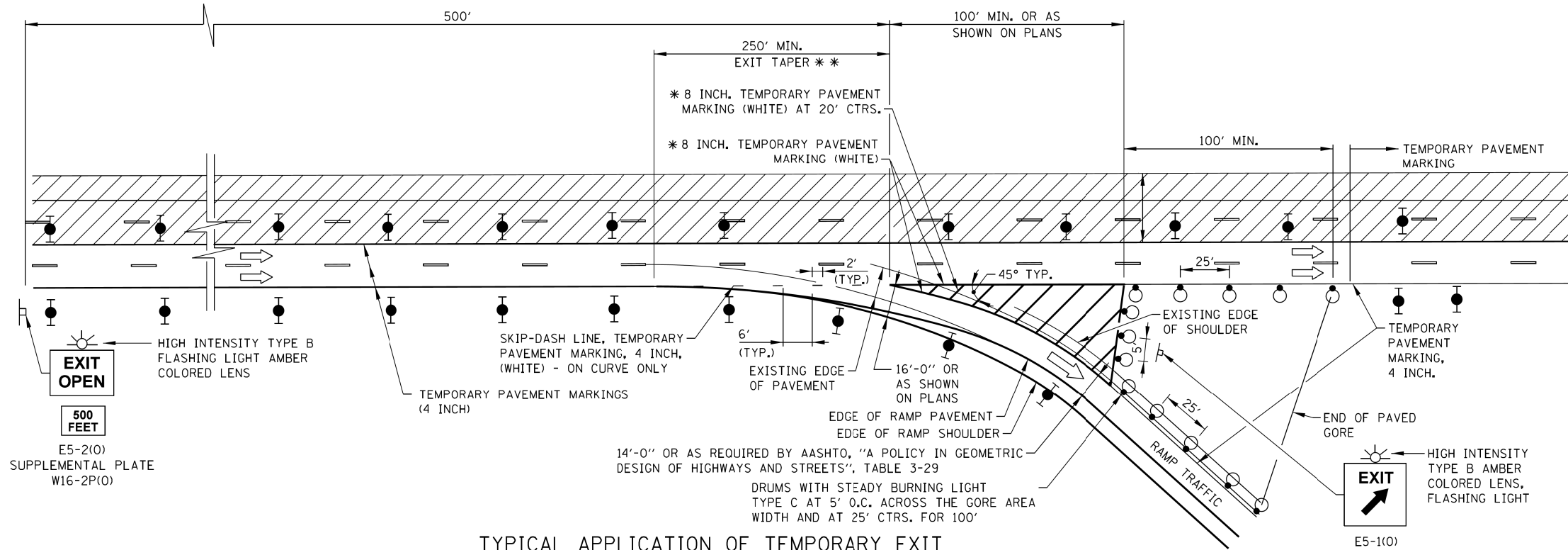
APPROVED *Paul Kovacs* CHIEF ENGINEER DATE 5-1-2009

DATE	REVISIONS
1-01-11	CHANGED SYMBOL DESIGNATION
	REVISED NOTES
3-31-14	REVISED WORKER SIGN NUMBERS PER "MUTCD" AND REVISED NOTES.
3-11-2015	REVISED NOTES
3-31-2016	ADD WORK ZONE WITH BARRIERS.
3-31-2017	ADDED TAPER RATE TABLE.

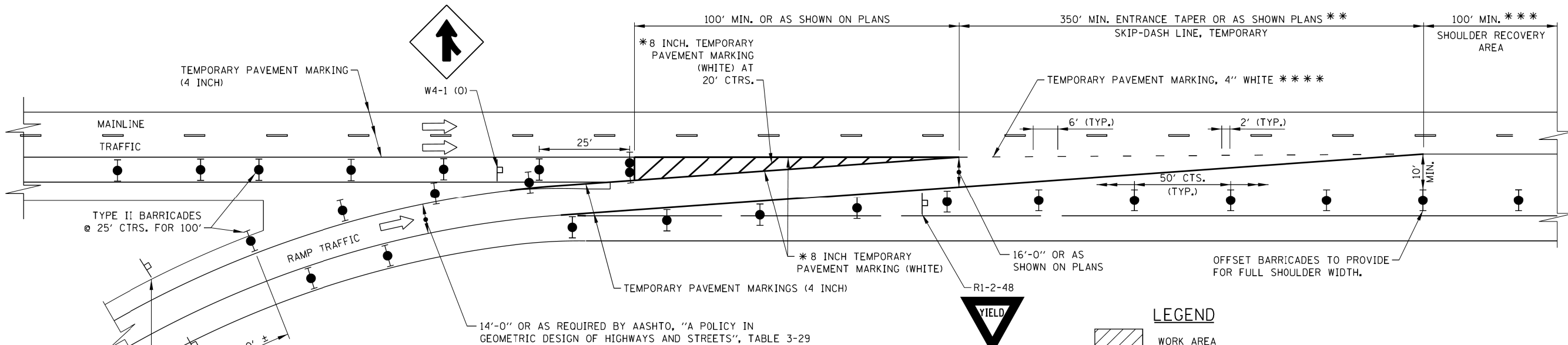
Illinois Tollway

SHOULDER CLOSURE DETAILS

STANDARD E3-06



TYPICAL APPLICATION OF TEMPORARY EXIT GORE DELINEATION AND SIGNING



TYPICAL APPLICATION OF TEMPORARY ENTRANCE GORE DELINEATION AND SIGNING

- LEGEND**
- WORK AREA
 - SIGN
 - TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - DRUM WITH STEADY BURNING LIGHT

NOTE:
 WHEN TEMPORARY PAVEMENT MARKING IS NOT REQUIRED, TEMPORARY GORES MAY BE DELINEATED BY DRUMS WITH STEADY BURN LIGHTS AT 25' C-C ACCORDING TO THE CONFIGURATIONS SHOWN.

* 8 INCH TEMPORARY PAVEMENT MARKING IS TO BE MADE OF 2-TEMPORARY PAVEMENT MARKING 4 INCH, WHITE OF THE TYPE SPECIFIED.

** BASED ON A MAINLINE WORK ZONE SPEED LIMIT OF 45 M.P.H.

*** WHERE VIABLE WITH STAGED CONSTRUCTION

**** WHEN MAINLINE IS WITHIN HORIZONTAL CURVE

DATE	REVISIONS
2-07-2012	REVISED MERGE SIGN.
3-31-2014	ADDED 45 MPH SPEED TO ENTRANCE TAPER.
3-11-2015	REVISED EXIT/ENTRANCE DETAIL LAYOUTS. REMOVED DETAILS NOT NEEDED.
3-31-2016	REVISED ENTRANCE GORE DETAIL.
3-31-2017	REVISED EXIT GORE DRUM LAYOUT

TEMPORARY GORE DETAILS

STANDARD E5-06

Paul Kovacs
 APPROVED CHIEF ENGINEER DATE 5-1-2009