11-09-2018 LETTING ITEM 082

TRAFFIC DATA

POSTED SPEED

25 MPH (PROPOSED)

25 MPH (EXISTING)

SCHAUMBURG,

26TH STREET 14,800 (2017)

RIVERSIDE DRIVE 4,250 (2017)

FOR INDEX OF SHEETS AND HIGHWAY STANDRARDS, SEE SHEET 2

DESIGN DESIGNATION

MAJOR COLLECTOR

MAJOR COLLECTOR

FAU 1459 26TH STREET)

PROJECT BEGINS

STA. 0+00

DESIGN SPEED

25 MPH (PROPOSED)

1"=100"

1"=50" 1"=40" 1"=30"

25 MPH (EXISTING)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 1459 (26th STREET) / FAU 3569 (RIVERSIDE DRIVE)

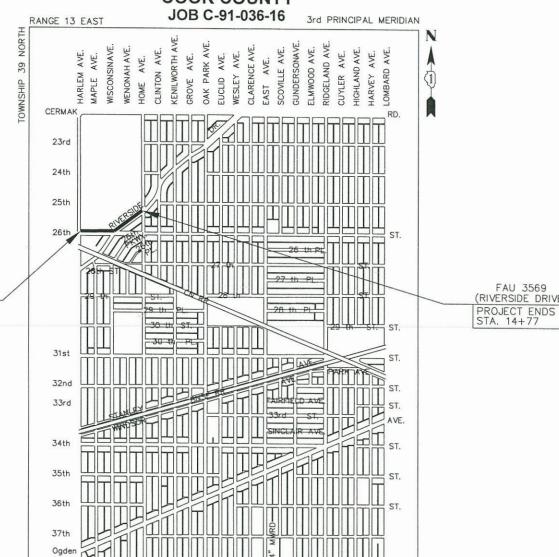
FAP 0348 (HARLEM AVENUE) TO HOME AVENUE

SIDEWALKS

SECTION 15-00173-00-SW PROJECT PTB4(661)

CITY OF BERWYN

COOK COUNTY

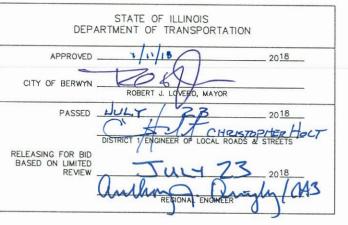


(RIVERSIDE DRIVE)

1459/3569 15-00173-00-SW COOK F.H.W.A. REG. ILLINOIS PROJECT PTB4(661)

CONTRACT NO. 61F03





7-11-18

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

JOINT UTILITY LOCATION

CALL 811

INFORMATION FOR EXCAVATION

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.

Know what's below. Call before you dig. CONTRACT NO. 61F03

GROSS LENGTH OF PROJECT = NET LENGTH OF PROJECT =

PROJECT LOCATION MAP

BERWYN TOWNSHIP

1,477 FEET (0.28 MILES) 1,477 FEET (0.28 MILES)

INDEX OF SHEETS

- 1.) COVER SHEET: LOCA'TION MAP
- INDEX OF SHEETS, LIST OF DISTRICT 1 STANDARD DETAILS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS, 2.) GENERAL NOTES, SPECIAL PROJECT NOTES, TYPICAL SECTIONS
- SUMMARY OF QUANTITIES
- PLAN AND PROFILE: FAP 0348 (HARLEM AVENUE) TO HOME AVENUE FAU 1459 (26th STREET) / FAU 3569 (RIVERSIDE DRIVE) -4.-5.)
 - (EXISTING & PROPOSED SIDEWALK PLAN)
- FAU 1459 (26th STREET) AND FAP 0348 (HARLEM AVENUE) ADA RAMP DETAILS 6.)
- FAU 1459 (26th STREET) AND FAU 3569 (RIVERSIDE DRIVE) ADA RAMP DETAILS 7.)
- TRAFFIC SIGNAL MODIFICATION PLAN 8.)
- 9.) CABLE PLAN, DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMP'TION SEQUENCE, AND SCHEDULE OF QUANTITIES

- BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT 10.)
 - TC-10 TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
- 12.) TC-22 ARTERIAL ROAD INFORMATION SIGN
- 13.-19.) TS-05 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- 20.-21.) CROSS SECTIONS

11.)

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

280001-07 TEMPORARY EROSION CONTROL SYSTEMS

424001-10 PERPENDICULAR CURB RAMPS FOR SIDEWALKS

606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER

701101-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY

701501-06 URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED

701701~10 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE

701901-07 TRAFFIC CONTROL DEVICES

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES

862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)

GENERAL NOTES

SPECIFICATIONS
THE APRIL 1, 2016 EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

THE CONTRACTOR SHALL EXERCISE CARE DURING EARTH AND/OR TRENCHING OPERATIONS TO AVOID DAMAGE TO LOCAL UTILITY SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES. ALL DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 105.07 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIAL OF THE PUBLIC WORKS DEPARTMENT OF THE THE CITY OF BERWYN AT (708) 749-4700, J.U.L.I.E. AT 1-800-892-0123 OR 811, AND OTHER PUBLIC AND PRIVATE UTILITIES TO MAKE ARRANGEMENTS TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AND TO PROVIDE ADEQUATE PROTECTION AND INSPECTION. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. N ADDITION, ALL MAIL BOXES THA INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

SUPERINTENDENCE

THE CONTRACTOR SHALL HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR, FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

PROJECT SAFETY

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

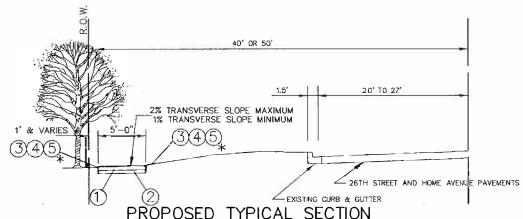
SPECIAL PROJECT NOTES

- 1.) MEET EXISTING CURB AND FLOW LINE ELEVATIONS AT REPLACEMENT LIMITS.
- 2.) MEET EXISTING SIDEWALK FLEVATIONS AT NEW CONSTRUCTION LIMITS.
- 3.) "TOPSOIL FURNISH AND PLACE, 4 INCH" SHALL BE INSTALLED IN DISTURBED AREAS.

LIMITS OF PERIMETER EROSION BARRIER, TREE REMOVAL, AND ROOT PRUINING AS DIRECTED BY THE ENGINEER 40' OR 50" 20' TO 27' 1 & VARIES ∠ 26TH STREET AND HOME AVENUE PAVEMENTS EXISTING CHAIN LINK FENC - EXISTING CURB & GUTTER EXISTING TYPICAL SECTION

26TH STREET AND RIVERSIDE DRIVE - STA. 0+00 TO STA. 14+77

//// INDICATES REMOVAL ITEMS AS APPLICABLE "EARTH EXCAVATION"



26TH STREET AND RIVERSIDE DRIVE - STA. 0+00 TO STA. 14+77

- 1) PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH OR PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH (FOR FIELD ENTRANCE DRIVEWAYS)
- (2) SUBBASE GRANULAR MATERIAL TYPE B, 4 INCH
- (3) TRANSITION TO EXISTING GROUND LEVEL, 4:1 MAXIMUM SLOPE
- (4) TOPSOIL FURNISH & PLACE, 4 INCH (ALL DISTURBED AREAS AND AS DIRECTED)

TO STA

*5 SODDING (ALL DISTURBED AREAS AND AS DIRECTED)

NOTE: MINIMUM TRANSVERSE SLOPE FOR SIDEWALK SHALL BE 1%. MAXIMUM TRANSVERSE SLOPE FOR SIDEWALK SHALL BE 2%. MAXIMUM LONGITUDINAL SLOPE FOR SIDEWALK SHALL BE 5%.



NOVOTNY
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: [630] 887.8640

INDEX OF SHEETS, LIST OF DISTRICT 1 STANDARD DETAILS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS, GENERAL NOTES, SPECIAL PROJECT NOTES

SCALE: NONE SHEET NO. OF SHEETS STA.

SECTION COUNTY 1459/3569 15-00173-00-SW COOK 21 2 CONTRACT NO. 61F03

FED ROAD DIST, NO. LILLINOIS FED. AD PROJECT

STATE OF ILLINOIS

REVISED - TRB 5/22/18 DESIGNED - AMS CITY OF BERWYN REVISED - TRB 7/18/18 DRAWN - JFP FAU 1459 (26th STREET) / FAU 3569 (RIVERSIDE DRIVE) CHECKED -REVISED -FAP 0348 (HARLEM AVENUE) TO HOME AVENUE PLOT SCALE = -5/1/18PLOT DATE = DATE REVISED SIDEWALK

DEPARTMENT OF TRANSPORTATION

Specialty	Special	Code	The state of the s		Total	Construction Code
Item Provision No		No	o Item		Quantity	Roadway 00 2 S
*		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	105	105
		20101100	TREE TRUNK PROTECTION	EACH	30	30
		20101100	# 1994 # 1994 # 1994 # 1994 # 1994 # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		30	20
*	17-1-41 33 34 44 44 47 47 47 47 47 47 47 47 47 47 47	20101200	TREE ROOT PRUNING	EACH	60	60
		20200100	EARTH EXCAVATION	CUYD	350	350
-tour or and a graph among a graph of		21101600	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH	SQYD	2,000	2000
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	40	40
antart de la le single de la constant de la constan				******************************		4614-124
		25000800	POTASSIUM FERTILIZER NUTRIENT	POUND	40	40
***************************************		25200110	SODDING, SALTTOLERANT	SQYD	2,000	2000
. Handbirte S. (d. 14.44.41)	***************************************	25200200	SUPPLEMENTAL WATERING	UNIT	20	20
		28000400	PERIMETER EROSION CONTROL BARRIER	FOOT	600	600
***************************************	/	28000510	INLET FILTERS	EACH		
** ** ** ** ** ** ** ** ** * * * * * * *		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQYD	1,015	1016
		42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 8 INCH	SQYD	100	100
t to come to the tendent transfer or to	- Lo Jee Fag. Nov. 10 To	42400200	PORTLAND CEMENT CONCRETE SIDE WALK 5 INCH	SQFT	8,500	8500
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQYD	100	100
		(Additional)	**************************************			4
and otherwise desired desired or makes which we have the	of Hell 17s may consequence declaration	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	135	135
		42400800	DETECTABLE WARNINGS	SQFT	20	20
1-00-1-01-01-01-1-1-1-1-1-1-1-1-1-1-1-1	**************************************	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	135	135
·		67100100	MOBILIZATION	LSUM	i	1
	***************************************	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD, 701501	LSUM	4	4
en loude a se inclumation has not been assets. •	and the sales were the second of the second of	The state of the s	A STANDER OF THE COURT TO A COURT OF A COURT	www.mmanananan	252565A.2432.A23A.2425	***************************************
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD, 701701	LSUM	1	1
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD, 701801	LSUM	1	1

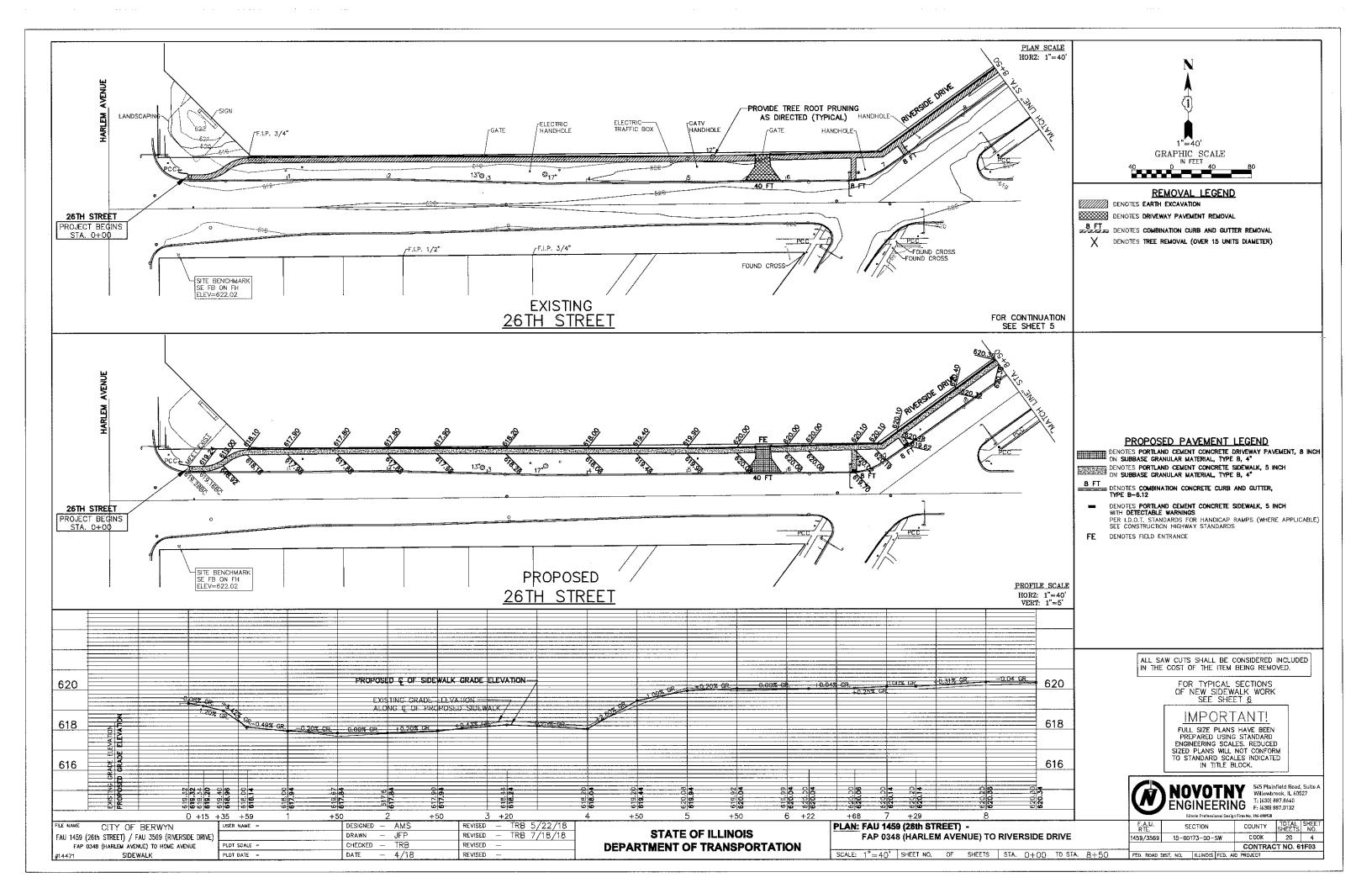
Specialty	Special	Code			Total	Construction Code
ltem	Provision	No	ltem	Unit	Quantity	Roadway 00,2 8
*		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	650	650
*		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150
*		B102B210 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2* DIA.			40	40
*			MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
*		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,080	1080
	\$	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	848	848
* -		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8	8
*		87900200	DRILL EXISTING HANDHOLE	EACH	2	2
*	A STATE OF THE SALES AND ADDRESS OF THE SALES	88102717	PEDESTRIAN SIGNAL HEAD, LED, T-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	4
*		88800100	PEDESTRIAN PUSH-BUTTON	FACH	4	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
*		B9500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2	2
*	. 17) 15 15 184 14461441 41 4844419999	89502200	MODIFY EXISTING CONTROLLER	EACH	1	1
*		89502210	MODIFY EXISTING CONTROLLER CABINET	ÉACH	1	e and a service of the service of th
*		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	261	261
*	SP	89502376	REBUIL DEXISTING HANDHOLE	EACH	2	2
	· SP	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1	1
************************************	SP	X0326806	WASHOUT.BASIN	LSUM	1	1
	SP	X0327979	PAVEMENT MARKING REMOVAL-GRINDING	SQFT	200	200
		X0327980	PAVEMENT MARKING REMOVAL-WATER BLASTING	SQFT	200	200
*		X8760055	PEDESTRÍAN PUSH-BUTTON POST, TYPE A	EACH	2	2
		20030850	TEMPORARY INFORMATION SIGNING	SQFT	65	65

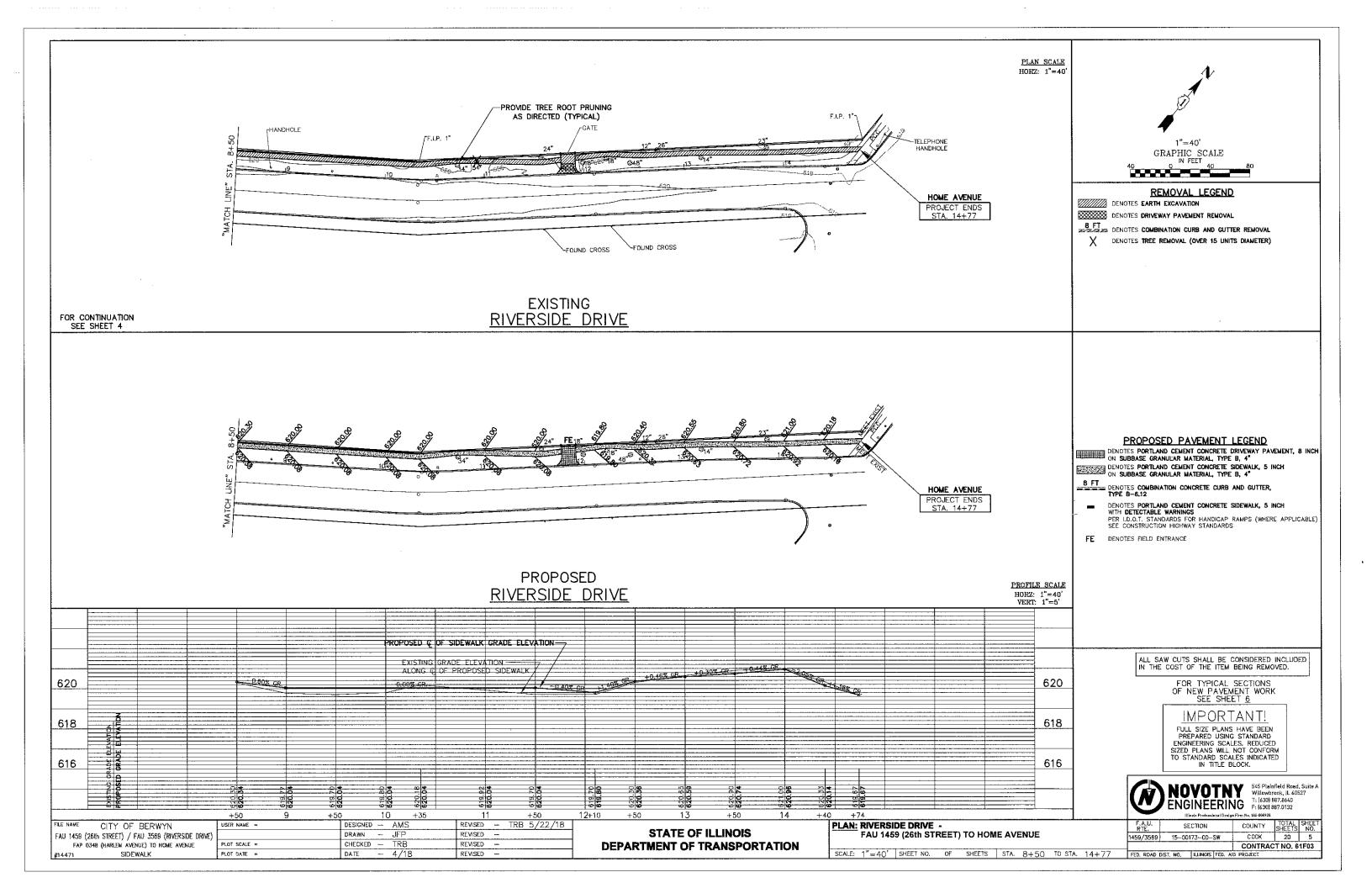
NOVOTNY ENGINEERING	545 Plainfield Road, Suite A Willowbrook, IL 60527 T: I630) 887.8640 F: I630) 887.0132
Killnois Professional Design Firm No	

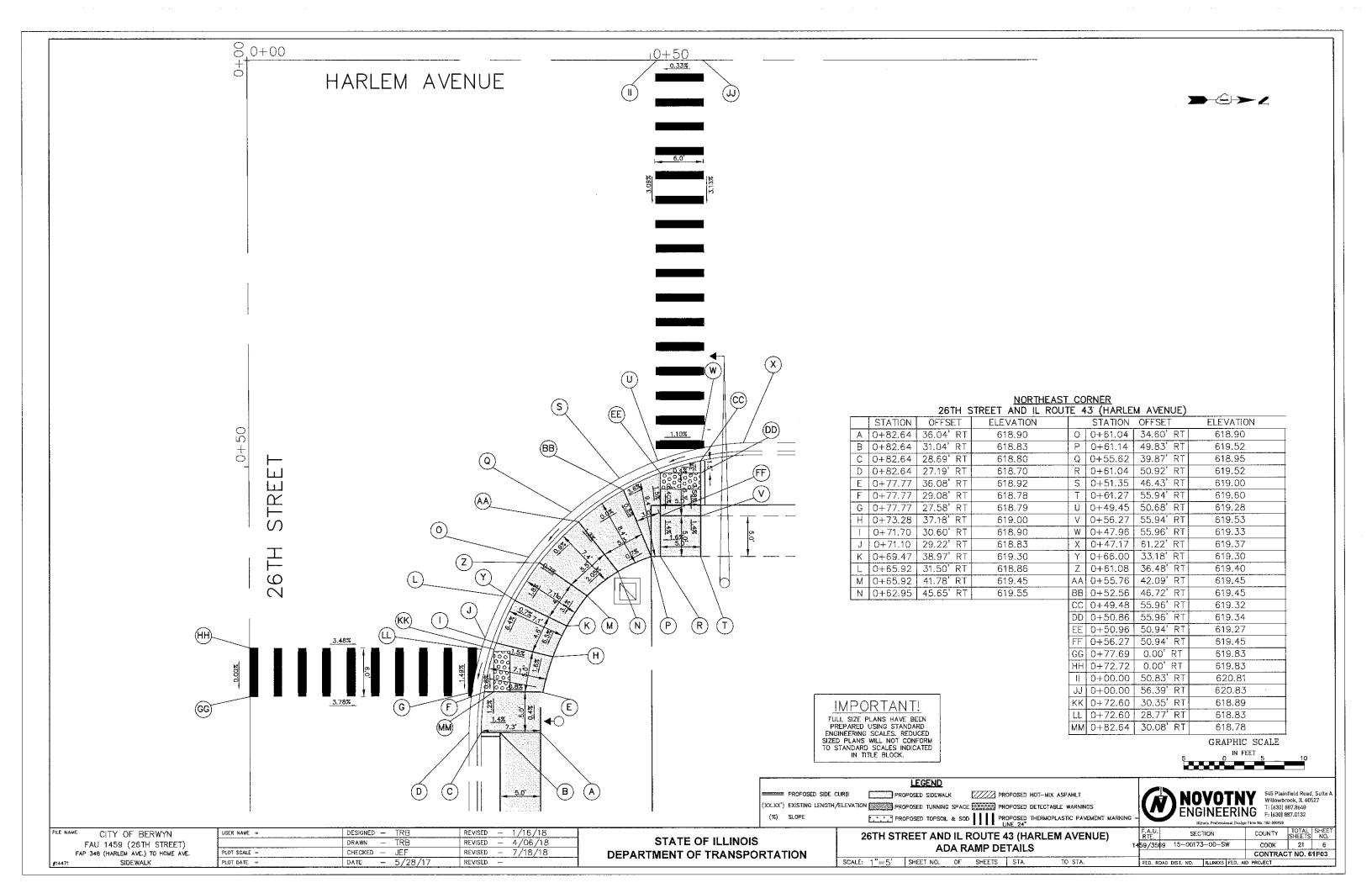
FILE NAME	CITY OF BERWYN	
FAU 1459	(26th STREET) / FAU 3569 (RIVERSIDE I	ORIVE)
	0348 (HARLEM AVENUE) TO HOME AVENUE	•
#14471	SIDEWALK	

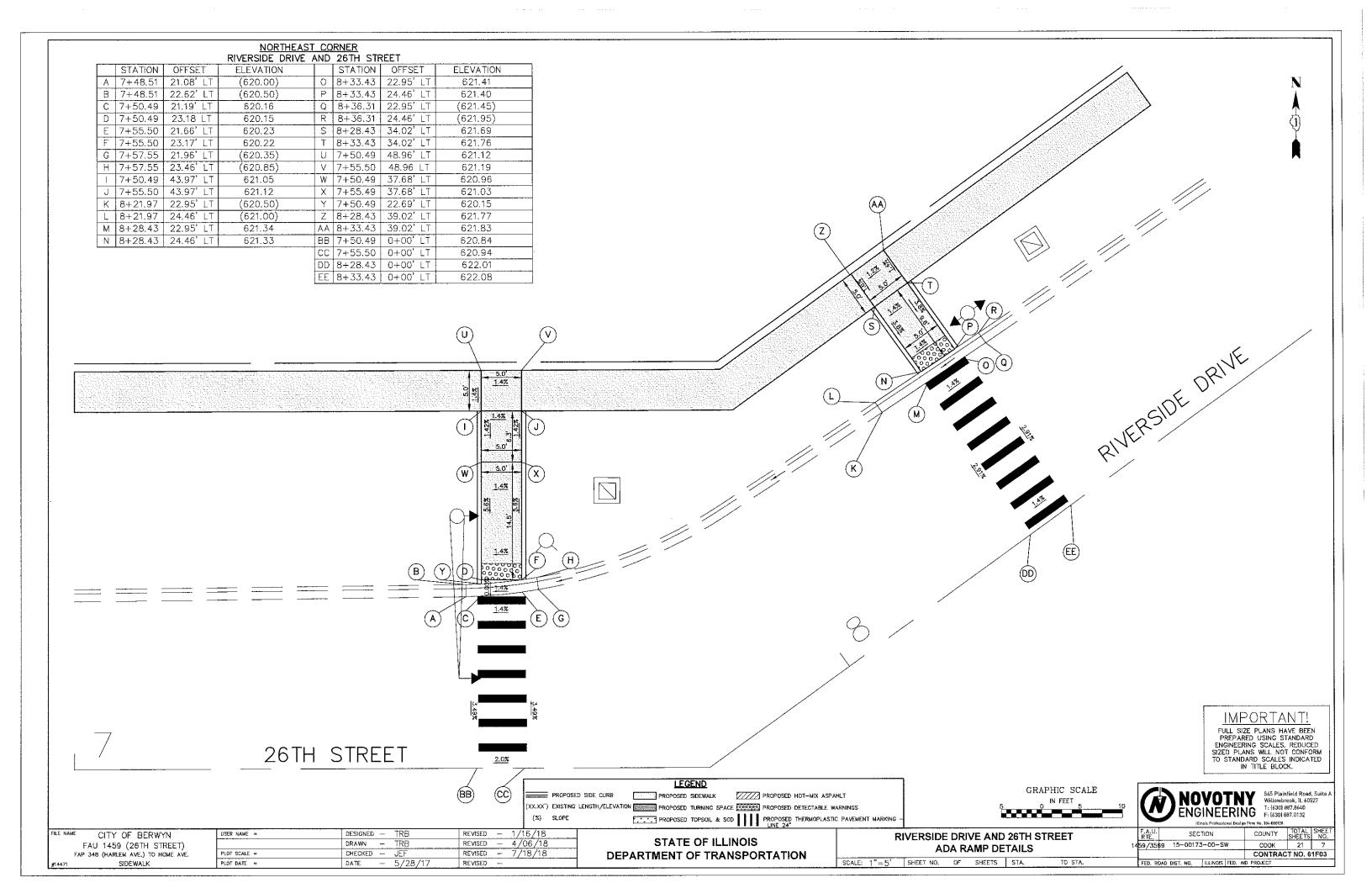
U SE RNAME	DESIGNED - AMS_	REVISED		TRB 5/22/18
	DRAWN - JFP	REVISED	=	TRB 7/18/18
PLO T SOA LE =	CHECKED - TRB	REVISED		
PLOT DATE =	DATE - 5/1/18	REVISED	_	

		RHI	ione Protessio	onal De	sign t	inn 240. 184-0001	25	
	F.A.U. RTE.	SE	CTION			COUNTY	SHEETS	SHEET NO.
	1459/3569	15-001	73-00-	SW		COOK	21	3
_						CONTR	ACT NO. (31F03
	FED. ROAD I	DIST. NO.	ILLINOIS	FED.	AID	PROJECT		









RELOCATION NOTES:

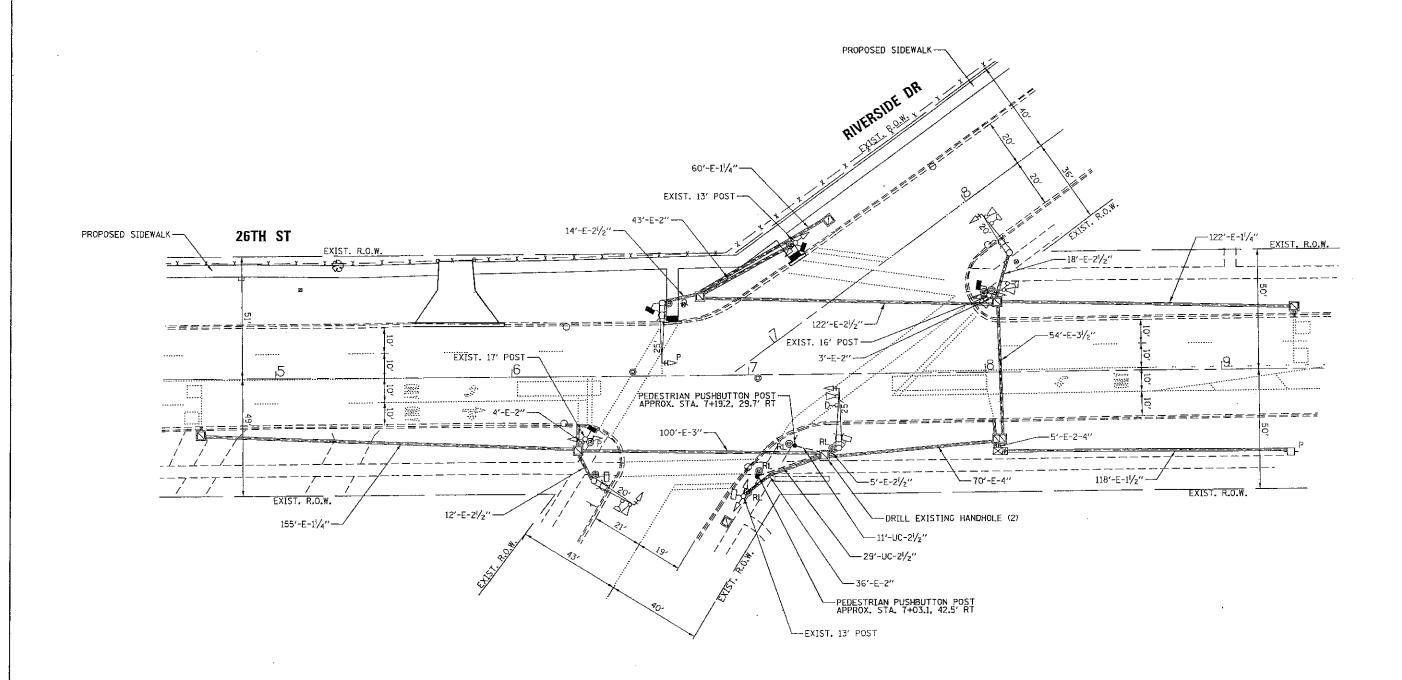
NOTES:

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED SIGNAL POSTS:

1. THIS PLAN IS FOR THE ADDITION/MODIFICATION OF PEDESTRIAN SIGNAL EQUIPMENT. ALL OTHER ITEMS ARE FOR INFORMATION ONLY.

2 EACH PEDESTRIAN PUSH BUTTON





SHT NO.1 TS

FILE NAME =	USER NAME = dischnobel	DESIGNED	-	MD	REVISED -
08 - Signal 26th Riverside.dgn		DRAWN	-	MD	REVISED -
	PLOT SCALE = 40.0000 '/ in.	CHECKED		DWS -	REVISED -
	PLOT DATE = 5/5/2018	DATE	-	06/05/2018	REVISED -

9575 West Higgins Road, Suite 400 Rosemont, Illinois 60018 P: {847} 518–9990 F: {847} 518–9987 PROJECT # 18-048

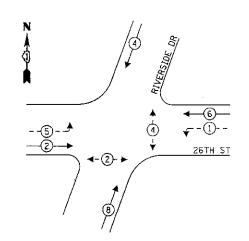
TRAFFIC SIGNAL MODIFICATION PLAN 26TH ST AND RIVERSIDE DR SCALE: 1'=20' SHEET OF SHEETS STA. TO STA.

COUNTY SHEETS NO.

COOK 21 8 SECTION 1459/3569 15-00173-00-SW CONTRACT NO. 61F03

TS 7910





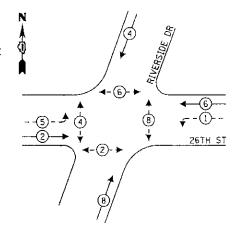
LEGEND:

◆ PROTECTED PHASE

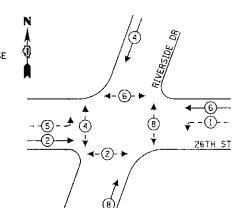
← -(*)- - PROTECTED/PERMITTED PHASE

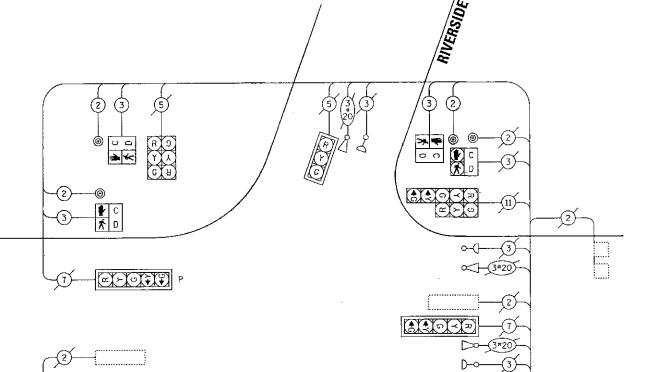
→ PEDESTRIAN PHASE

♦ OL OVERLAP

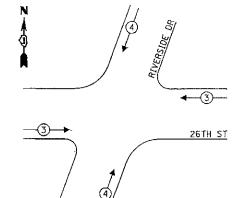


PROPOSED CONTROLLER SEQUENCE





EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL **ELECTRICAL SERVICE REQUIREMENTS** NO. OF LED % TOTAL

			101111
LAMPS	WATTAGE	OPERATION	WATTAGE
12	11	50	66.0
12	20	5	12.0
12	12	45	64,8
8	10	10	8.0
8	20	100	160.0
1	100	100	100.0
1	25	100	25.0
	150	100	-
-	25	5	-
-	-	50	-
-	120	50	- :
-	-	-	-
		TOTAL =	435.8
	12 12 8	LAMPS WATTAGE 12 11 12 20 12 12 8 10 8 20 1 100 1 25 - 150 - 25	LAMPS WATTAGE OPERATION 12 11 50 12 20 5 12 12 45 8 10 10 8 20 100 1 100 100 1 25 100 - 150 100 - 25 5 - 50 - - 120 50

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION 201 W CENTER CT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT:

PHONE:__-COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER: --

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	מדואט	TOTAL OTY.
UNDERGROUND -CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	40
MAINTENANCE OF EXISTING TRAFFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1080
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	848
CONCRETE FOUNDATION, TYPE A	FOOT	8
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
RELOCATED EXISTING PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	261
PEDESTRIAN PUSH-BUTTON POST, TYPE A	EACH	2

CABLE PLAN (NOT TO SCALE)

TS 7910

FILE NAME = 89 - Cable 26th Riverside.dgn

SHT

DRAWN - MD REVISED CHECKED -- DMS PLOT SCALE = 40.0000 ' / 10. REVISED -PLOT DATE = 6/5/2018 DATE - 06/05/2018 REVISED -



PROJECT # 18-048

SECTION 15-00173-00-SW 1459/3569 26TH ST AND RIVERSIDE DR SHEETS STA.

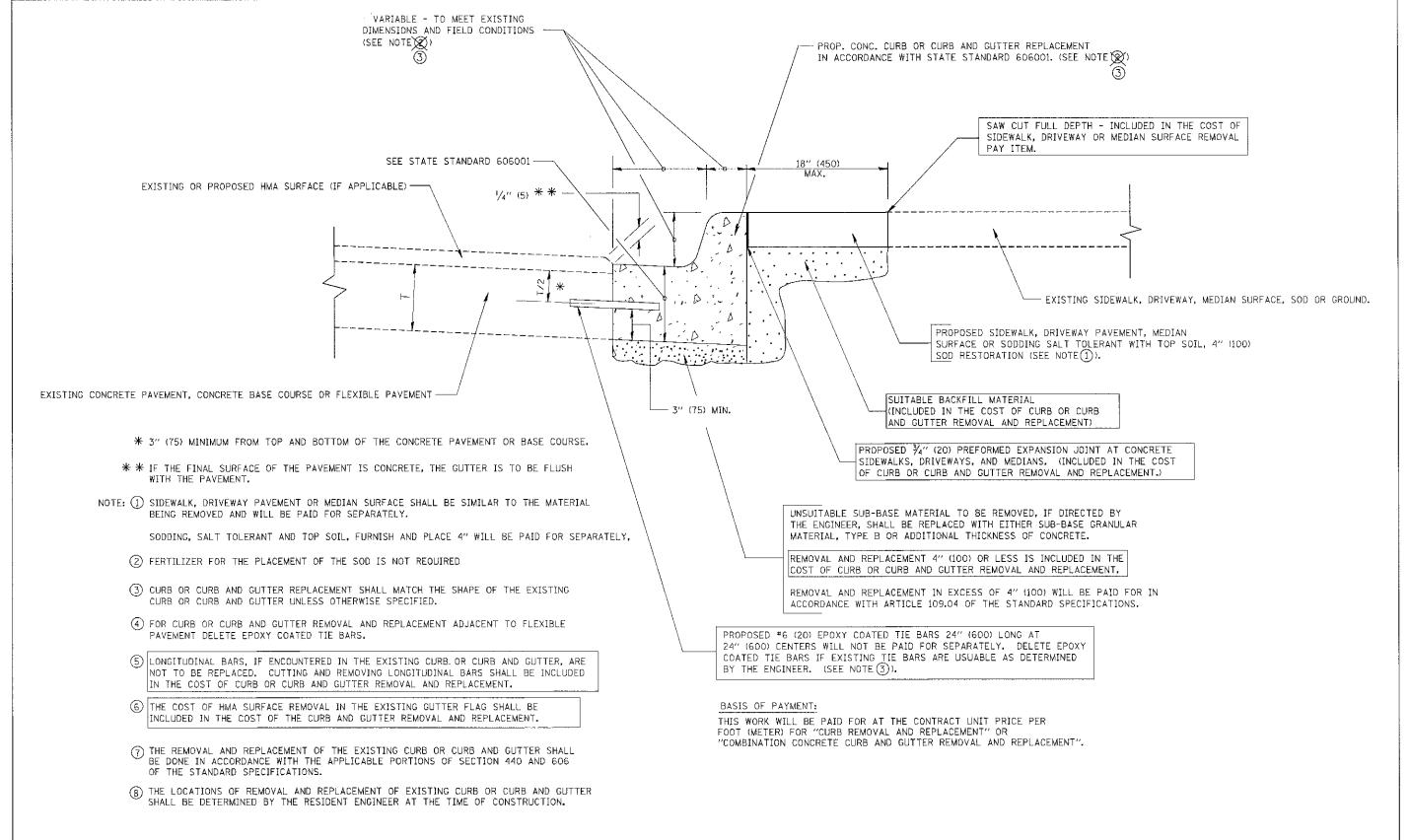
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COUNTY TOTAL SHEET NO.
COOK 21 9
CONTRACT NO. G1F03

-MODIFY EXISTING CONTROLLER

26TH ST

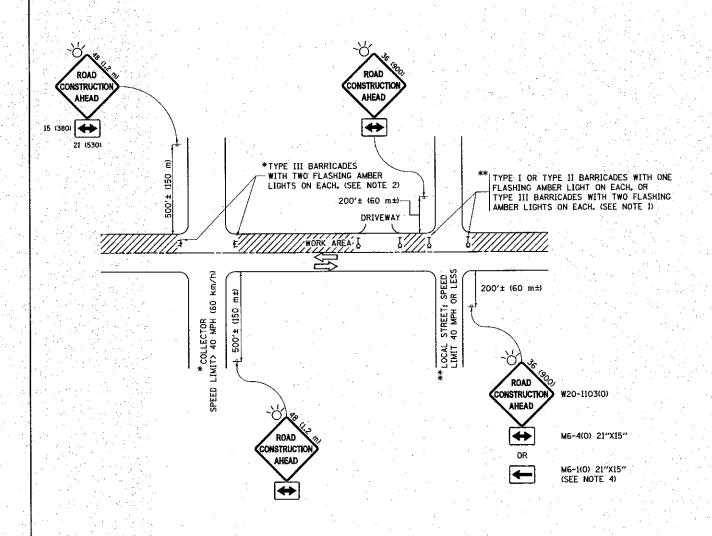
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES 9575 West Higgins Road, Suite 400 Rosemont, Illingis 60018



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = drivakoagn	DESIGNED - A, HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.U. SECTION COUNTY SHEETS NO.
g:/pw_work/p#idat/drivakosgn/dB16	8315\bd24.dgn	DRAWN -	REVISED ~ A. ABBAS 03-21-97	STATE OF ILLINOIS		1459/3569 15-00173-00-SW COOK 21 10
	PLDT SCALE = 50.000 '/ IN.	CHECKED +	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REMOVAL AND REPLACEMENT	BD600-06 (BD-24) CONTRACT NO. 61F03
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE; NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINGIS FED. AID PROJECT
	. '		······································			



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 (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

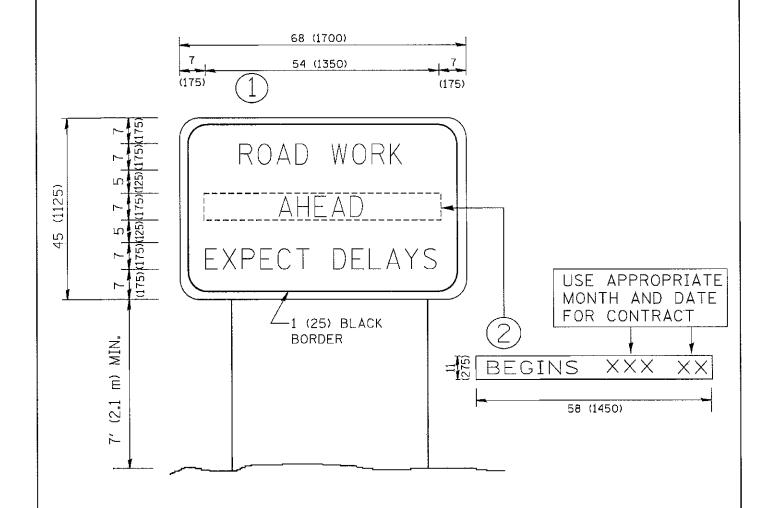
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY. FOLLOW THE APPLICABLE STANDARDIS). THE DIRECTIONAL ARROW (MG-1 OR MG-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE
- 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.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE NONE SHEET 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 = gaglianabt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.U. SECTION	COUNTY SHEETS NO.
Wi\distatd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN	1459/3569 15-00173-00-SW	COOK 21 12
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T, RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		TC-22	CONTRACT NO. 61F03
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 BLLINGIS FED	D. AID PROJECT

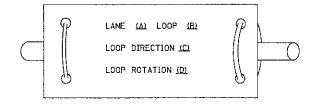
TRAFFIC SIGNAL LEGEND (NOT TO SCALE)

CONTROLLER CABINET COMMUNICATION CABINET MASTER CONTROLLER MASTER MASTER CONTROLLER UNINTERRUPTABLE POWER SUPPLY SERVICE INSTALLATION -(P) POLE MOUNTED SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED TELEPHONE CONNECTION STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	EXISTING ECC EMC EMC CM CM COM COM COM	PROPOSED CC MC MMC F F CG MC MMC F G MMC T	ITEM HANDHOLE -SOUARE -ROUND HEAVY DUTY HANDHOLE -SQUARE -ROUND DOUBLE HANDHOLE JUNCTION BOX RAILROAD CANTILEVER MAST ARM RAILROAD FLASHING SIGNAL RAILROAD CROSSING GATE RAILROAD CROSSBUCK	EXISTING CO XOZ X X	PROPOSED D X X X X X X X X X X X X	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	ENCOCKE ENCOCKED A CONTROL OF THE CO	PROPOSED RYGGYG RYGGYG REYGGYG RB RB
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ALUMINUM MAST ARM ASSEMBLY AND POLE STEEL COMBINATION MAST ARM		<u> </u>	RAILROAD CONTROLLER CABINET	<u> </u>	<u>-</u> ≽∢			
STEEL COMBINATION MAST ARM	O	→	UNDERGROUND CONDUIT (UC).			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	P C F D	₽ C A D
			GALYANIZED STEEL			ILLUMINATED SIGN		
	-o ¤	● <u>≭</u>	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			"NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	● ● BM	SYSTEM ITEM INTERSECTION ITEM	5 I	SP IP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	_ 5	_5_
WOOD POLE	⊗	9	REMOVE ITEM	-	R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	- 1*6 -	<u></u>
CUY WIRE	>	>-	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
SIGNAL HEAD	→	→	ABANDON ITEM		A	NO. 14 1/C	— <u>1</u>	-1-
SIGNAL HEAD WITH BACKPLATE	+t>> P P	+ > -> P +> P	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	<u>—©—</u>
SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION	-D' +D'		MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE	─ ♥	- V-
-(FS) SOLAR POWERED	or or FS	F FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	<u>6*18</u>	(6#18)
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	—	——————————————————————————————————————
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON		⊚ @ APS	PREFORMED DETECTOR LOOP	E (2)	P P	-NO. 62,5/125, MM12F SM12F -NO. 62,5/125, MM12F SM24F		—(24E)—
RADAR DETECTION SENSOR	RI	R	SAMPLING (SYSTEM) DETECTOR	[<u>E</u>] (<u>\$</u>)	S S		(36F)	—(36F)—
VIDEO DETECTION CAMERA	Ŷ	▼	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	$\widetilde{[is]}$ (\widehat{is})	[3] [S]			
RADAR/VIDEO DETECTION ZONE		=	QUEUE AND SAMPLING	<u> (05)</u> (05)	os os	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	T T T	T T T
PAN, TILT, ZOOM (PTZ) CAMERA	PTZþ	PTZ I	(SYSTEM) DETECTOR WIRELESS DETECTOR SENSOR	(<u></u> :	⊗	-(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	≈	~	WIRELESS ACCESS POINT		-			
CONFIMATION BEACON	~ √0	•-(
WIRELESS INTERCONNECT	0 -1 }	•+3 [
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						

LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG



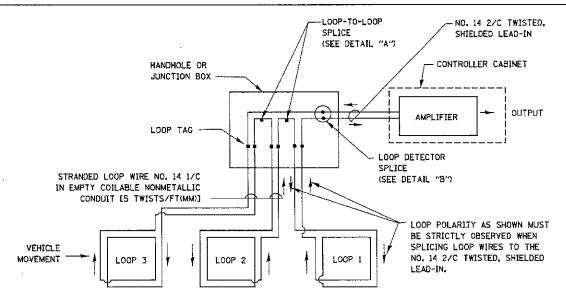
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

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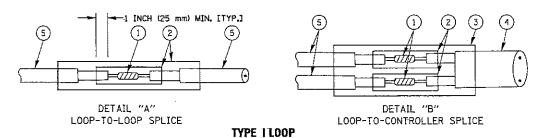
D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

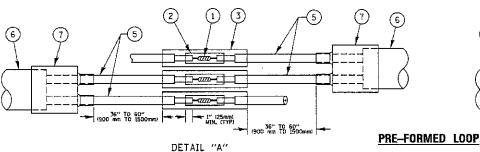
DESIGNED - DAD



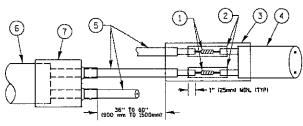
DETECTOR LOOP WIRING SCHEMATIC

- 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.





LOOP-TO-LOOP SPLICE



DETAIL "B"

LOOP-TO-CONTROLLER SPLICE

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 LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

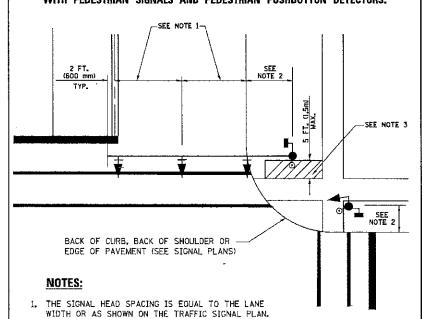
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- TL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

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c:\pw_work\pwidot\footemj\d0108315\ta05.	gn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = 56.2000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	
	PLCT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE

REVISED - DAG 1-1-14

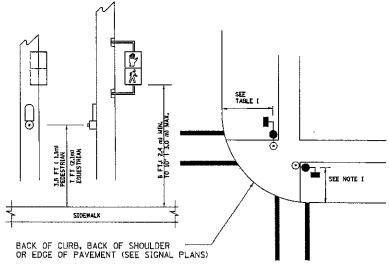
DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1459/3569	15-00173-00-SW	COOK	2!	14
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		T\$05	CONTRAC	NO.	61F03
SHEET NO. 2 OF 7 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		

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



- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 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 PUSH BUTTON POST



PEDESTRIAN SIGNAL 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 FACTI STIFS."

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN L5 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.

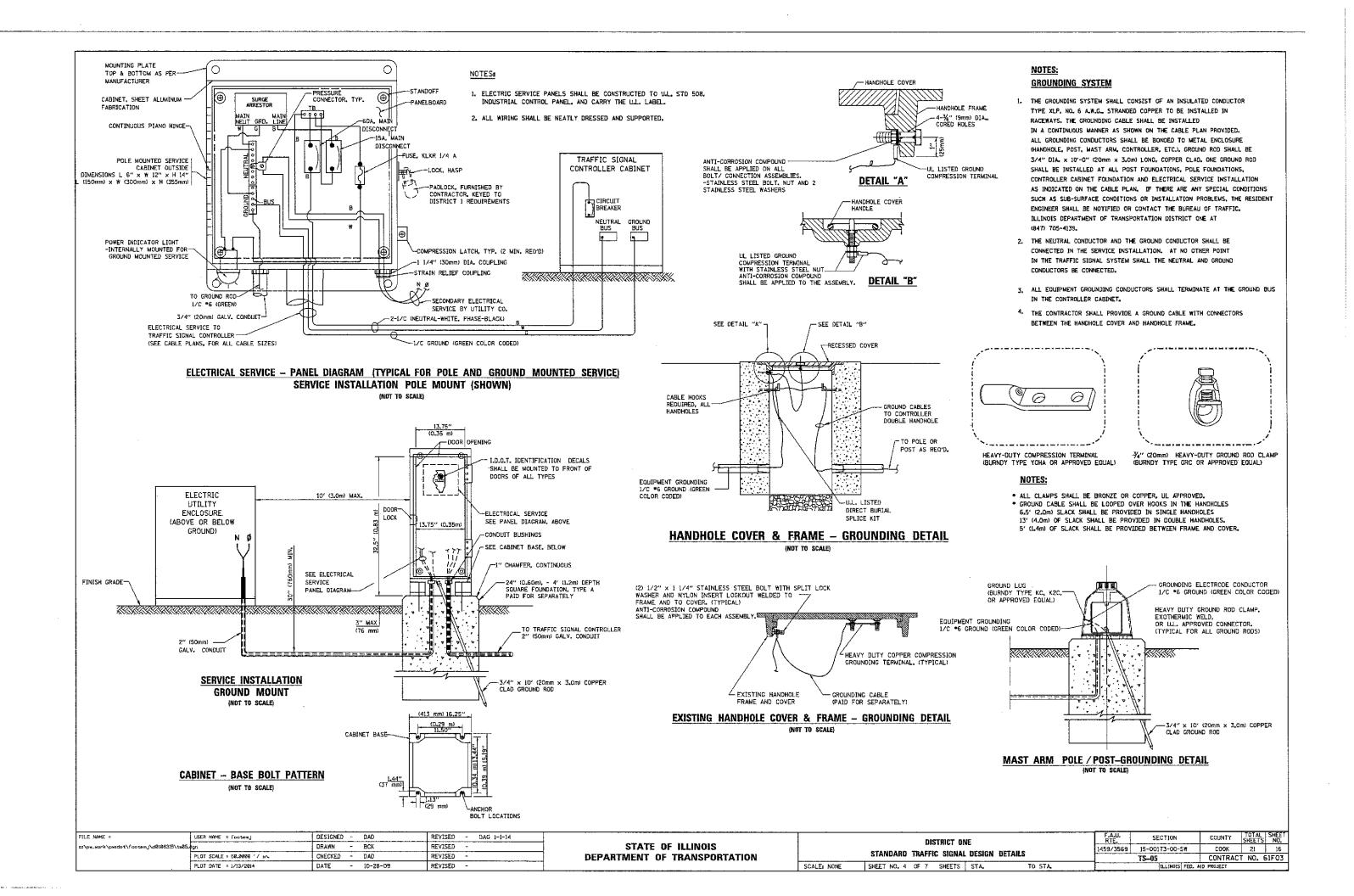
TRAFFIC SIGNAL EQUIPMENT OFFSET

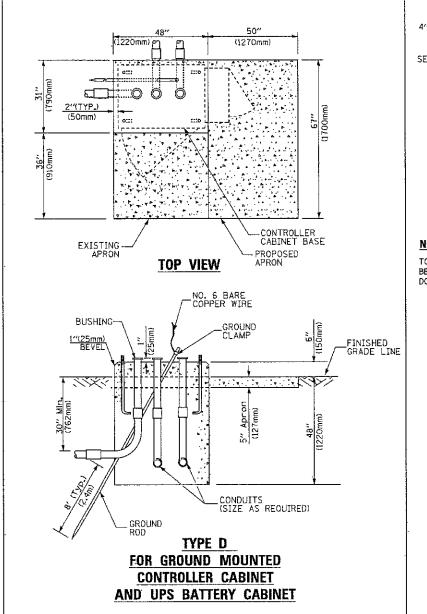
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

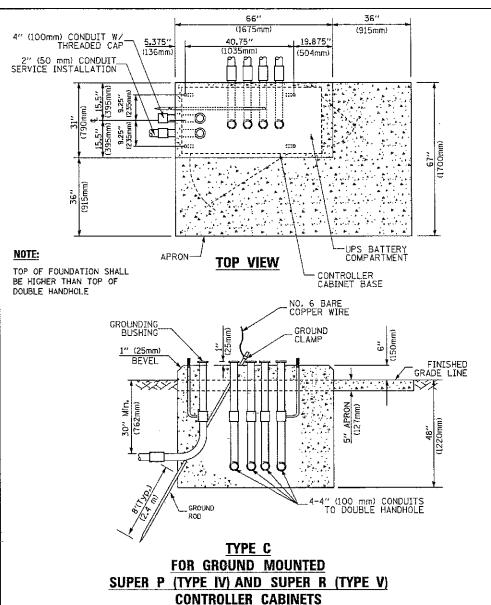
NOTES:

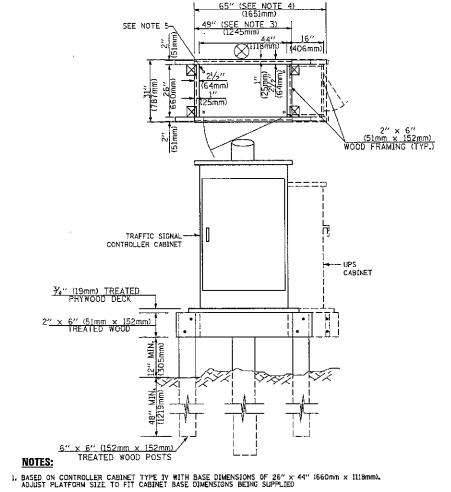
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE 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.

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14		NOTITION ONE	F.A.U.	SECTION .	COUNTY TOT	TAL SHEET
gr)pw_work/pwidot/footemj/d0108315/ts05.	gn gn	DRAWN - BCK	REVISED ~	STATE OF ILLINOIS	DISTRICT ONE	1459/3569	15-00173-00-SW	COOK 21	1 15
	PLOT SCALE = 56.9006 ' / xn.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO	O. 61FO3
	PLOT DATE = 1/13/2914	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	









- 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

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

CABLE SLACK

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 - SOUARE	4'-0" (1.2m

DEPTH OF FOUNDATION

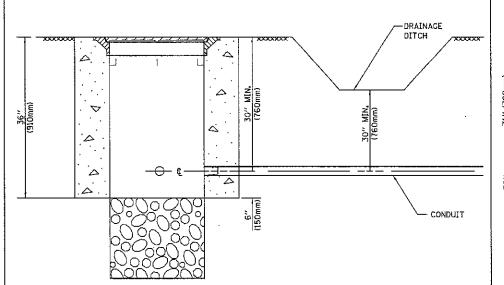
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebors
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-5" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12,2 m) and less than 50' (15,2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16,8 m) and less than 65' (19,8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7,6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- i. These foundation depths are for sites which have cohesive solis (clayey sit, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (00) > 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 most arm assemblies under 55 feet (16.8 m) shall use 35" (900 mm) diameter foundations.
- 3. Combination most arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001...

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

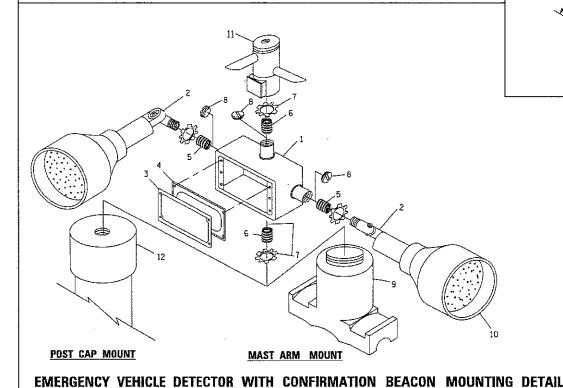
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FILE NAME	user user	R NAME = footemj	DESIGNED -	DAG	REVISED - DAG 1-1-14				DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEE	.T
c1/bx-xock	k/pxsdot/focremj/d0108315/ta85.egn		DRAWN	BCK	REVISED -	STATE OF IL	LINOIS			N.o.	1459/3569	15-00173-00-SW	COOK	21 17	愆
	PLOT	T SCALE = 58.9000 '/ an.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRA	ANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAI	IF2		T\$-05	CONTRACT	T NO. 61FO	3
	PLRT	T DATE = 1/13/2014	DATE -	10-28-09	REVISED -			SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA.	TO STA.	ſ	ILLINOIS FED.	AID PROJECT		

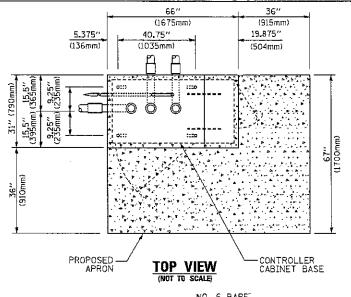


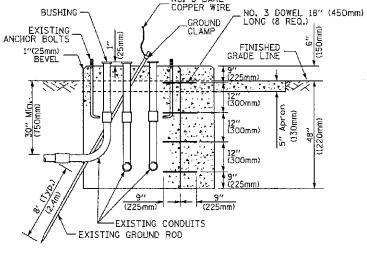
NOTES:

- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 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

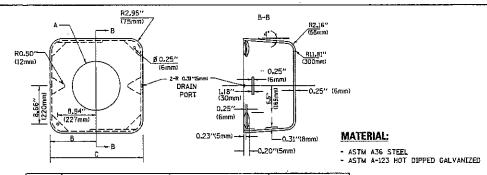






MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)

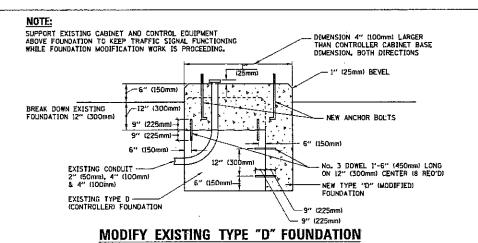


A	В	c	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10,75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13,0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm).	81 lbs (37 kg)
- VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

NOTES:

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



ITEM NO. IDENTIFICATION 1 OUTLET BOX- GAL V. 21 CU,IN. (0,000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 Y4"(19 mm) CLOSE NIPPLE 7 Y4"(19 mm) LOCKNUT 8 Y4"(19 mm) HOLE PLUG 9 SADOLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5,4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM *1- 02/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM *2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM *9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TICHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

CONDUIT BUSHING CONDUIT TO BE REMOVED CONDUIT TO REMAIN EXISTING CONDUIT TO REMAIN PLAN ELEVATION

NOTES:

SCALE: NONE

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 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

