01-15-2016 LETTING ITEM 084

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITY OF BRAIDWOOD

**FUNCTIONAL CLASSIFICATION** 

**MAJOR COLLECTOR (IL 113)** 2013 ADT = 7.450DESIGN SPEED = 30 MPH P.V. = NA S.U. = NA M.U. = NA

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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: ANDY E. RABADI (847) 705-4256 UNIT CHIEF: JOSE A. DOMINGUEZ (847) 705-4385 TOWNSHIP: REED

CONTRACT NO. 62B35

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS** 

# **PROPOSED HIGHWAY PLANS**

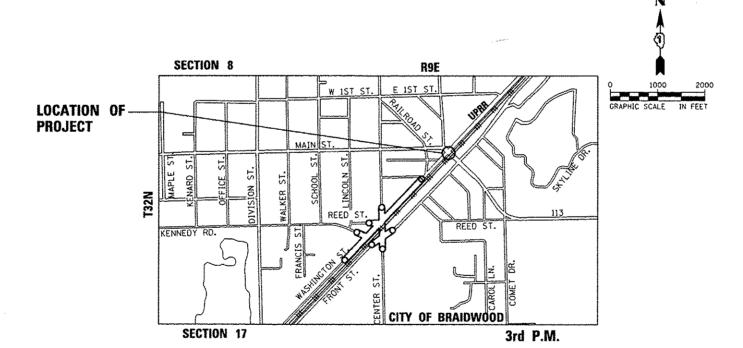
F.A.S. ROUTE 2320 (IL RTE 113 /MAIN STREET)

SECTION: D1HSRR2016-04

AT UNION PACIFIC RR (HIGH SPEED RAIL)

PROJECT: HSR-2320(002) TRAFFIC SIGNAL RELOCATION **WILL COUNTY** 

C-91-017-16





MATTHEW J. LETOURNEAU, P.E. LICENSE NO.: 062-055763 EXPIRES: NOVEMBER 30, 2015

DANIEL A. DUZAN, P.E. LICENSE NO.: 062-059108 EXPIRES: NOVEMBER 30, 2015

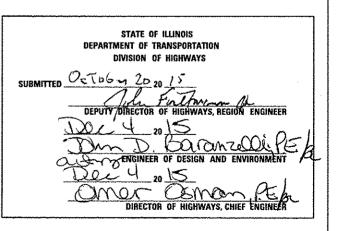
WILL 36 1

ILLINOIS CONTRACT NO. 62B35

D-91-017-16

DOT# 290506L MP 57.31





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

AECOM TECHNICAL SERVICES, INC.
303 E WACKER DRIVE, SUITE 1400
CHICAGO, ILLINOIS 60601
PH. 312-373-7700

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# INDEX OF SHEETS

	·
1	COVER SHEET
2	HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
3 - 7	SUMMARY OF QUANTITIES
8	ALIGNMENT AND TIES
9	TRAFFIC CONTROL DETAILS
Ħ	TRAFFIC SIGNAL MODIFICATION PLAN, IL ROUTE 129 AT IL ROUTE 113
12	TRAFFIC SIGNAL CABLE PLAN, IL ROUTE 129 AT IL ROUTE 113
13	UTILITY PLAN, IL ROUTE 129 AT IL ROUTE 113
14	EXISTING TRAFFIC SIGNAL PLAN, IL ROUTE 53 AT IL ROUTE 113
15	EXISTING TRAFFIC SIGNAL CABLE PLAN, IL ROUTE 53 AT IL ROUTE 113
18	IL ROUTE 113 AT UPRR, SEQUENCE OF OPERATIONS
17 - 18	IL ROUTE 113 AT UPRR, EVP SEQUENCE OF OPERATIONS
19	IL ROUTE 113 AT UPRR, RAILROAD PREEMPTION SEQUENCE OF OPERATIONS
20	PROPOSED LIGHTING PLAN, IL ROUTE 129 AT IL ROUTE 113
21	TEMPORARY LICHTING PLAN, IL ROUTE 129 AT IL ROUTE 113
22- 28	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
29	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS,
	AND DRIVEWAYS
30	ARTERIAL ROAD INFORMATION AND SIGN DETAIL
31	CONDUIT INSTALLATION UNDER RAILROAD TRACKS DETAIL
32	LUMINAIRE LIGHT POLE DETAILS
33	TEMPORARY LIGHT POLE DETAILS
34	MISC. ELECTRICAL DETAILS SHEET A
35	TEMPORARY AERIAL CABLE INSTALLATION

	HIGHWAY STANDARDS
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701006 <i>-05</i>	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701336 - <i>O</i> 6	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701501- <i>06</i>	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-06	URBAN LANE CLOSURE. 2L. 2W. WITH BIDIRECTIONAL LEFT TURN LANE
701701 - 09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801 - 05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901 - 04	TRAFFIC CONTROL DEVICES
720001 - <i>Ol</i>	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
814001 - 03	HANDHOLES
814006 <i>~02</i>	DOUBLE HANDHOLES
857006~ <i>O</i> /	SUPERVISED RAILROAD INTERCONNECT CIRCUIT
862001 - 01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001 - 02	TRAFFIC SIGNAL GROUNDING & BONDING
877012-02	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001 - /0	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

# DISTRICT DETAILS

TC-10	TRAFFIC	CONTRO	L &	PROTECT	ION	FOR	SIDE	ROADS
TC-22	ARTERIAL	ROAD	INFO	RMATION	SIG	N		

# **GENERAL NOTES**

THE CONTRACTOR SHALL DEVELOP A PLAN TO ACCOMPLISH THIS WORK AND MINIMIZE DISRUPTION OF ACCESS. THIS PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN. WET. OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ABANDONED UNDERCROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

THE CONTRACTOR SHALL KEEP EXISTING ADJACENT STREETS CLEAN OF DIRT. MUD. AND OTHER DEBRIS AND, WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS OR WHEN DIRECTED BY THE ENGINEER. NO EXTRA COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR THIS WORK.

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS, REDUCED SIZED PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELD.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK, METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. THE COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 DR BIL FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE AND GAS FACILITIES. THE
CONTRACTOR SHALL CONTACT THE MUNICIPALITY FOR ANY MUNICIPAL OWNED UTILITIES. (MINIMUM 48 HOURS NOTIFICATION IS REQUIRED) THE CONTRACTOR SHALL CALL THE UNION PACIFIC "CALL" BEFORE YOU DIG" OPERATION AT 1-800-336-9193 FOR FIELD LOCATIONS OF BURIED FIBER OPTIC CABLES IN UNION PACIFIC RIGHT-OF-WAY.

EXISTING UTILITIES ARE SHOWN ON THE PLANS ACCORDING TO INFORMATION OBTAINED FROM THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

1. SPRINT (EO)

2. LEVEL 3 COMMUNICATIONS (FO)

3. COMMONWEALTH EDISON (E)

4. AT&T (FQ)

5. COMCAST (FO)

6. CITY OF BRAIDWOOD (W)

7. NICOR GAS (G)

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

1. UNION PACIFIC RAILROAD COMPANY (FIBER OPTIC)

2. UNION PACIFIC RAILROAD, IL HSR PROGRAM (RAILROAD SIGNALS)

3. ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) DISTRICT ONE

4, IDOT DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR

ALIGNMENT AND STATIONING TO BE ESTABLISHED AS PART OF AN ADJACENT ROADWAY CONTRACT BY

THE CONTRACTOR SHALL SECURE THE PROPOSED PROPOSED COMBINATION MAST ARM ASSEMBLY AND ALL REQUIRED BID ITEM MATERIALS IN ADVANCE OF THE SCHEDULED ROAD CLOSURE FOR THE ADJACENT RAILROAD CROSSING MODIFICTION CONTRACT.

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

ANY PROPOSED ACTIVITY IN THE VICINITY OF A HIGHWAY-RAIL GRADE CROSSING MUST ADHERE TO THE GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), UNDER SECTION 6G.18, WHICH STATES: "WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS, IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED. A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

# COMMITMENTS

ALL EMERGENCY SERVICES, LOCAL POLICE. FIRE DEPARTMENTS, UTILITIES, AND SCHOOL DISTRICTS, SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 7 DAYS PRIOR ANY ROAD CLOSURES OR CHANGES IN TRAFFIC PATTERNS.

THE RESIDENT ENGINEER SHALL ENSURE THAT AN OPER 2410 HAS BEEN SUBMITTED TO SPRINGFIELD NO LESS THAN 21 DAYS PRIOR TO ANY ROAD CLOSURE.

# UNION PACIFIC RAILROAD GENERAL NOTES

- 1. WITHIN THESE NOTES. THE UNION PACIFIC RAILROAD SHALL BE REFERRED TO AS THE
- 2. A CONTRACTOR'S RIGHT-OF-ENTRY PERMIT IS REQUIRED BEFORE ANY WORK CAN COMMENCE ON RAILROAD PROPERTY, THE COST TO OBTAIN THIS PERMIT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT
- 3. NO DISRUPTIONS OF RAILROAD OPERATIONS WILL BE PERMITTED.
- 4. ALL WORK WITHIN 25 FEET OF THE NEAREST TRACK WILL REDUIRE A RAILROAD FLAGMAN. TO SCHEDULE A FLAGMAN FOR WORK ON A COMMUTER LINE, CALL CANDICE MILLER AT (312) 496-4738, A MINIMUM 72 HOURS IN ADVANCE OF START OF WORK. TO SCHEDULE A FLAGMAN FOR WORK ON FREIGHT LINES, CALL DARYL CLARK AT (708) 649-5273, A MINIMUM OF 72 HOURS IN ADVANCE OF START OF WORK.
- 5. WORK WINDOWS WITHIN THE 25 FOOT ZONE ARE ONLY AVAILABLE FROM 9:00 AM ~ 3:00 PM. MONDAY THROUGH FRIDAY. NIGHT WORK WINDOWS ARE AVAILABLE FROM 8:00 PM - 4:00 AM. PLEASE PROVIDE AT LEAST 72 HOURS OF ADDITIONAL NOTICE WHEN REQUESTING TO WORK AT NIGHT TO ENSURE APPROPRIATE FLAGGING COVERAGE, EXTENDED WORK WINDOWS MAY BE AVAILABLE ON THE WEEKENDS, NOT WITHSTANDING THE FORGOING, DUE TO INTERSTATE FREIGHT TRAIN AND COMMUTER PASSENGER TRAIN OPERATIONS AND SCHEDULES ALL WORK WINDOWS WITHIN THE TIMES LISTED ABOVE ARE SUBJECT TO ON SITE UNILATERAL ADJUSTMENT OR DENIAL FROM THE RAILROAD'S LOCAL FIFED MANAGER AND/OR CORRIDOR MANAGER, THIS MAY RESULT IN DENIAL OR ADJUSTMENT OF ACCESS FOR ANY AND ALL CONTRACTORS, SUBCONTRACTORS AND MATERIAL MEN DURING WORK
- NO UN-USED WORK EQUIPMENT WILL BE ALLOWED TO REMAIN ON THE RAILROAD'S COMMUTER PLATFORM IF PRESENT.
- 7. RAILROAD UTILITIES ARE NOT INCLUDED UNDER JULIE. CALL CANDICE MILLER AT (312) 495-4738 FOR LOCATES.
- 8. FIBER OPTICS MAY BE PRESENT IN THIS AREA. CALL (800) 336-9193 TO COORDINATE ANY REQUIRED PROTECTION OR RELOCATION, PRIOR TO CONSTRUCTION.
- 9. RAILROAD REVIEW AND APPROVAL OF SHORING, DEMOLITION, ERECTION, AND FALSEWORK IS
- 10. ERECTION OVER THE RAILROAD'S RIGHT-OF-WAY SHALL BE DESIGNED TO CAUSE NO INTERRUPTIONS TO RAILROAD'S OPERATIONS. ERECTION OVER THE RAILROAD'S TRACK SHALL BE DEVELOPED SUCH THAT IT ENABLES THE TRACKS(S) TO REMAIN OPEN TO TRAIN TRAFFIC PER RAILROAD'S REQUIREMENTS.
- 11. MINIMUM CONSTRUCTION CLEARANCE ENVELOPE OF 21 FEET VERTICAL ABOVE THE PLANE OF TOP-OF-RAIL AND 12 FEET HORIZONTAL AT RIGHT ANGLE FROM CENTERLINE OF TRACK SHALL BE MAINTAINED AT ALL TIME DURING CONSTRUCTION.
- 12. FALSEWORK CLEARANCE SHALL COMPLY WITH THE RAILROAD'S MINIMUM CONSTRUCTION CLEARANCE ENVELOPE.
- 13. FOR RAILROAD COORDINATION PLEASE REFER TO THE RAILROAD MINIMUM REQUIREMENTS AS PART OF SPECIAL PROVISIONS.
- 14. THE CONTRACTOR MUST SUBMIT A PROPOSED METHOD OF EROSION AND SETTLEMENT CONTROL AND HAVE THE METHOD APPROVED BY THE RAILROAD.
- 15. THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION, ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RAILROAD PRIOR TO CONSTRUCTION.

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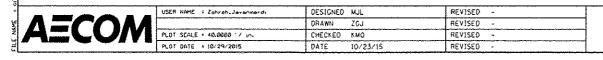
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

		H	IGHW	AY :	STA	NDARDS	S. GENER	RAL	F.A.S. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
******						COMM			2320	D1HSRR2016-04	CONTRACT	35	2
SCALE:	NTS	SHEET	í	OF	1	SHEETS	STA.	TO STA.	┪	ILLINOIS FED. A	1	NU. b	2835

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% FE SIGNAL 0021
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	10	10
66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1
66900530	SOIL DISPOSAL ANALYSIS	EACH	i	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	LSUM		1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	ŁSUM	1	. 1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	Ì	1
70102622	TRAFFIC CONTROL AND PROTECTION. STANDARD 701502	LSUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	ŁSUM	1	1
72000100	SIGN PANEL - TYPE I	SO FT	15	15
72400710	RELOCATE SICN PANEL - TYPE 1	SO FT	7	7
72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	13	13
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL. 2" DIA.	FOOT	60	60
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	105	105

\* =SPECIALTY ITEM



SUMMARY OF QUANTITIES IL RTE 113 AT UPRR													
SCALE:	NTS	SHEET	1	OF	5	SHEETS	STA.	τç	STA.				

CODE	1754	(13.17.7	TOTAL	100% FE SIGNAL
NO. 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	QUANTITY 116	0021
0100000	Sideronosio odiodir, vaeranteed oreer, o ora	note in the second	110	110
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	25	25
81028250	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.	FOOT	50	50
81400100	HANDHOLE	EACH	3	3
81603051	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	220	220
81800330	AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE	FOOT	360	360
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	2	2
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	1	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
85700310	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20	FOOT	770	770
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1, 195	1, 195
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 50	FOOT	802	802
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 70	FOOT	237	237
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	483	483

\* =SPECIALTY ITEM

DESIGNED MJL
DRAWN ZGJ
CHECKED KMO
DATE 10/23/15 REVISED -PLOT SCALE + 48,0000 1/ 10.
PLOT DATE + 10/29/2015 REVISED -REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL RTE 113 AT UPRR SCALE: NTS SHEET 2 OF 5 SHEETS STA. TO STA.

D1HSRR2016-04

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% FEX SIGNAL 0021
87301750	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	F00T	93	93
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 10	FDOT	177	177
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2	2
87703040	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12	12
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21	21
87900200	DRILL EXISTING HANDHOLE	EACH	15	15
88500100	INDUCTIVE LOOP DETECTOR	EACH	19	19
88600100	DETECTOR LOOP, TYPE I	FOOT	334	334
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	4	4
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3	3
89500300	RELOCATE EXISTING ILLUMINATED SIGN	EACH	1	1
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	3	3
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1	1
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1	

3

\* =SPECIALTY ITEM

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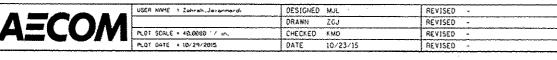
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	PLOT DATE . 18/29/2015	DATE	10/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						OF QUANTITIES 113 AT UPRR		
CALE: N	175	SHEET	3	OF	5	SHEETS STA.	TO	STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% <i>FE 0</i> SIGNAL 0021
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3, 205	3, 205
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3, 615	3, 615
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	ì
89502376	REBUILD EXISTING HANDHOLE	EACH	2	5
89502380	REMOVE EXISTING HANDHOLE	EACH	4	4
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2	2
X0322141	REMOVE TEMPORARY WOOD POLE	EACH		1
x0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	194	194
X0325815	REMOVE EXISTING CABLE	FOOT	168	168
X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	2	1
X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	1	1
X8100863	INTERCEPT EXISTING CONDUIT	EACH	7	7
×8161000	EXPOSE AND RELOCATE EXISTING UNIT DUCT	FOOT	110	110
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1

<sup>\* =</sup>SPECIALTY ITEM



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						OF QU/ 113 AT	ANTITIES UPRR	<b>S</b>
CALE	NTS	SHEET	4	OF	5	SHEETS	STA.	TO STA.

CTION COUNTY TOTAL SHEETS NO.

R2016-04 WILL 35 6

CONTRACT NO. 62835

||ILLINOIS||FED. AID ||PROJECT| SECTION D1HSRR2016-04

<sup>\* =</sup>SPECIALTY ITEM



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

IL RTE 113 AT UPBR

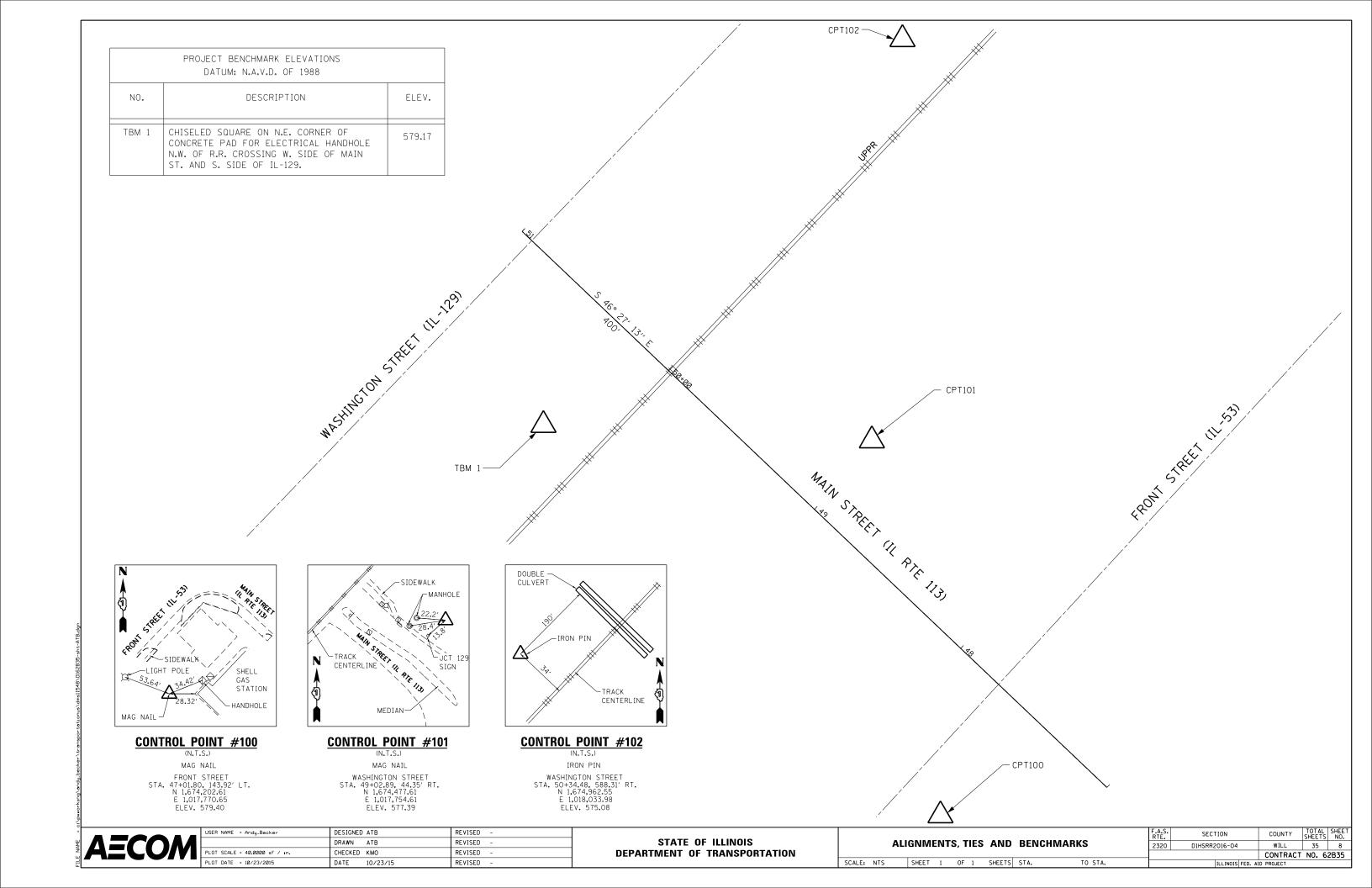
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TO STA.

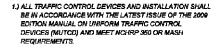
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# FOR INFORMATION ONLY



- 2.) SUFFICIENT TYPE III BARRICADES SHALL BE ERECTED TO ADEQUATELY CLOSE THE ENTIRE ROADWAY WIDTH AT THE RAILROAD CROSSING PER STANDARD 701901.
- 3.) ALL EXISTING SIGNS IN CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE COVERED IN PLACE, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL UNCOVER SIGNS WHEN CONSTRUCTION IS COMPLETE, AS DIRECTED BY THE ENGINEER
- 4.) ALL NON-REGULATORY CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS
- 5.) PLACE ATTACHED ARTERIAL ROAD INFORMATION SIGNS (SP-1) AT WORK ZONE 14 DAYS PRIOR TO CROSSING CLOSURE AND
- 6.) CONTRACTOR TO COORDINATE CLOSURE WITH THE TOWN OF BRAIDWOOD, WILL COUNTY AND IDOT 60 DAYS PRIOR
- 7.) IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN THE SPECIAL SIGNS AND HAVE THEM APPROVED BY THE ENGINEER.
- 8.) ADJACENT ROADWAY CROSSINGS MAY NOT BE CLOSED AT ANY ONE TIME. CLOSURES REQUIRED FOR ROADWAY CROSSINGS WORK MUST BE SCHEDULED A MINIMUM (7) DAYS APART TO ALLOW MOTORISTS TIME FOR TRAFFIC PATTERN ADJUSTMENTS.
- 9.) PROVIDE FLAGGERS AT EACH ACTIVE CROSSING DURING SIGNAL OUTAGES RELATED TO THIS CROSSING CONSTRUCTION WORK, INCLUDING 2 FLAGGERS AND 2 FLAGGER SIGNS (W20-7) AT EACH
- 10.) USE IDOT STDS 701008-03, 701011-02, 701308-03, 701901-02, AND DISTRICT ONE DETAIL TC-21
- 11.) PER IDOT STANDARD SPECIFICATIONS, ARTICLE 701.14, WHEN WORK OPERATIONS EXCEED FOUR DAYS, TRAFFIC CONTROL SIGNS SHALL BE POST MOUNTED AT MINIMUM OF T FROM
- 12.) WITHIN THE CITY OF BRAIDWOOD, THE CONTRACTOR MUST FIRST CONSTRUCT MAIN STREET (MP 57.31), FOLLOWED BY CENTER STREET (MP 57.71) AND THEN DIVISION STREET (MP 58.41).
  NEITHER OF THESE CROSSINGS MAY BE CLOSED CONCURRENTLY WITH DETOURS POSTED SIMULTANEOUSLY.
- 13.) CONTRACTOR MUST MAINTAIN PEDESTRIAN ACCESS AT A MINIMUM OF ONE SIDE ALONG MAIN STREET. ANY CLOSURE OF THE SIDEWALK MUST BE COORDINATED WITH THE CITY OF BRAIDWOOD.

LIST OF TRAFFIC CONTROL DEVICES (PER CLOSURE)

ПЕМ	MUTCD DEVICE NO.	SIZE	QTY
STOP/9	R1-1	36" x 36"	6
ROAD CLOSED	R11-2	48" x 30"	2
RIGHT ARROW	M5-1R (FO)	24" x 18"	4
LEFT ARROW	M6-1L (FO)	24" x 18"	4
RIGHT AHEAD ARROW	MB-1R (FO)	24" x 18"	4
LEFT AHEAD ARROW	M6-1L (FO)	24" x 18"	4
DETOUR AHEAD	W20-2 (FO)	48" x 48"	8
ROAD CLOSED 500 FT	W20-3 (FO)	48" x 48"	2
ROAD CLOSED AHEAD	W20-3a (FO)	48" x 48"	2
DETOUR	M4-8 (FO)	24" x 12"	30
END DETOUR	M4-8a (FO)	24" x 12"	2
DETOUR, RIGHT ARROW	M4-10R (FO)	48" x 18"	1
DETOUR, LEFT ARROW	M4-10L (FC)	48" x 18"	1
NORTH	M3-1 (FO)	24" x 12"	15
SOUTH	M3-3 (FO)	24" x 12"	16
DIRECTIONAL UP ARROW AUXILLARY SIGN	M5-3 (FO)	24" x 18"	14
ILLINOIS 113	M1-50	30" x 24"	41
ILLINOIS 113 CLOSED AT RR	M1-50 *	60" x 48"	2
SPECIAL SIGN	\$P-1	48" x 66"	2
BARRICADES - TYPE III	-	-	8
FLAGGERS	-	DAYS	28
FLAGGERS SIGN	W20-7 (FO)	36" x 36"	-
<b>*FO*-</b> F	LUORESCENT ORAN	GE	

WILMINGTON LEGEND M4-8 M3-1 M1-50 M5-1L M4-8 M3-3 M1-50 M5-1L M3-1 M1-50 M6-1L TYPE III BARRICADE WITH SIGN (W20-2 TYPE III BARRICADE M4-8 M3-1 M1-50 M6-1R M4-8 M3-3 WARNING LIGHT SIGN POST-MOUNTED COAL CITY RD CONSTRUCTION AREA M6-1L M4-8 M3-1 M1-50 M6-3 M4-8 M3-3 M1-50 M5-1R W20-2 M1-50 M3-1 M1-60 M6-1L M4-8 M3-3 M1-50 M6-3 M4-8 M3-3 M1-50 M6-3 M4-8 M3-1 M1-50 M5-1L M6-3 M4-8 M3-3 M1-50 M6-1R M3-3 M1-50 M6-1R M4-8 M3-3 M1-50 M3-3 M1-50 M6-3 M4-8 M3-1 M1-50 M6-3 M4-8 M3-3 M4-8 M3-3 M1-50 M5-1L M3-3 M1-50 M6-3 R11-2 M4-8 M3-3 M1-50 M5-3 - TYPE III M4-10R R11-2 4 - TYPE III M1-50 BRAIDWOOD M4-8 M3-1 M1-50 M6-3 BRAIDWOOD ILLINOIS DIVISION OF HIGHWAYS DISTRICT 1 (R1-1 M4-8 M3-1 M1-50 SP-1 (SEE NOTE 5) M3-1 M1-50 M5-1R ILLINOIS 113 M3-3 FROM MONTH XX M6-1R M1-50 THRU MONTH M6-3 IL RIE. 113 ILLINOIS 113 CLOSED M1-50 R1-1 CROSSING M4-8 M3-1 M1-50 M6-3 UNION PACFIC Office of Assistant Vice President Engineering Design DTC-HNTB SCALE: N.T.S. CHECKED BY: JAG-HNTB **PRELIMINARY** HIGH-SPEED RAIL - TIER 7 MAZONIA MAIN ST. (MP 57.31) DOT # 290506L DATE: 30 JUL 2015 HNTB CORPORATION
CONTRAL PARK PLAZA MONTH
22 SOUTH 100 97, 3UTE 549-M
ONTH, NES 9429 SHEET NUMBER ROO4 of RO38 SHEET TITLE: NOT FOR CONSTRUCTION DATE: 30 JUL 2015 ROADWAY TRAFFIC CONTROL

\$color\_able\$\$ sentable\$\$ Street) - Traf-

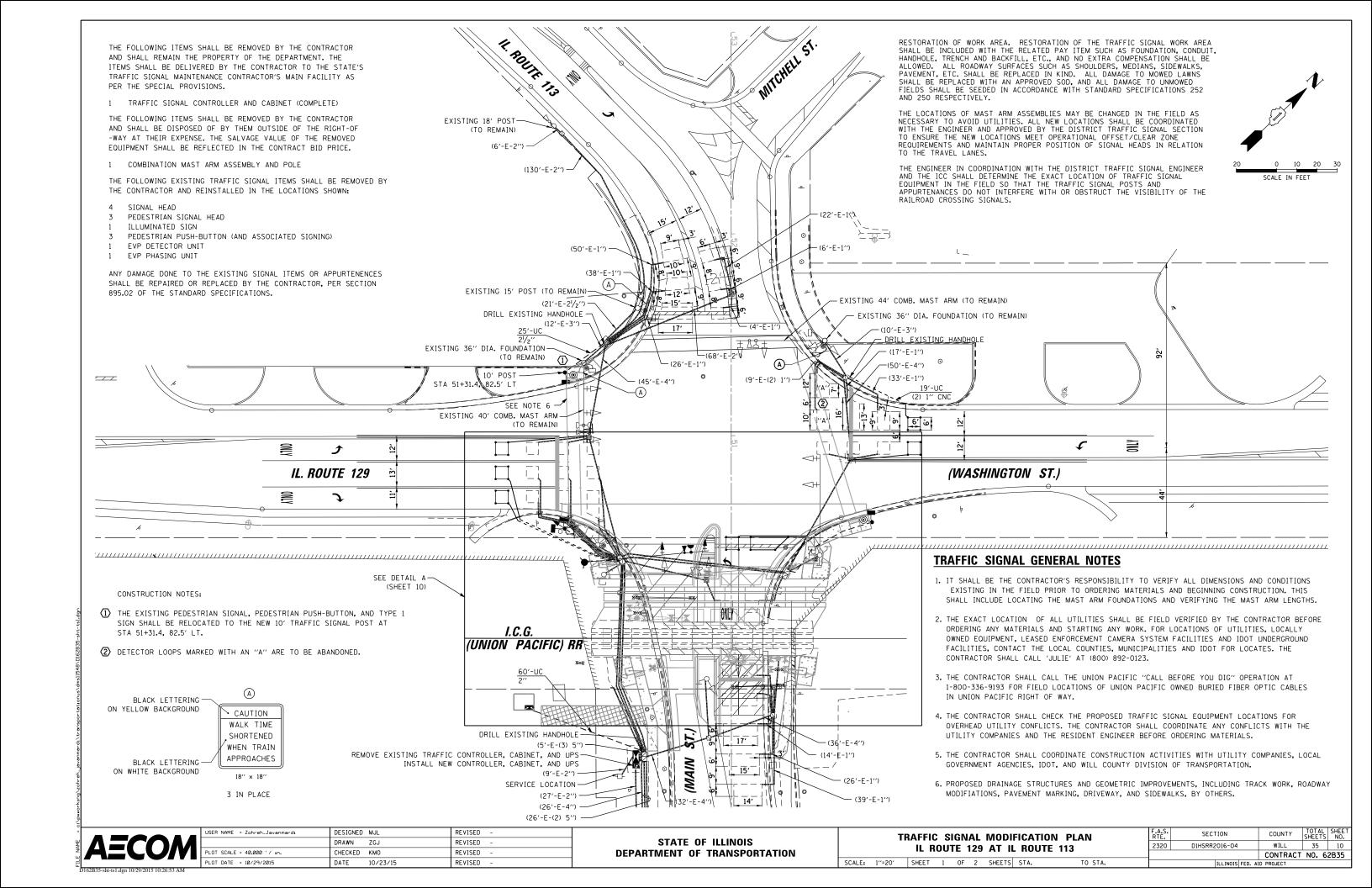
USER NAME = Andy_Becker	DESIGNED MJL	REVISED -
	DRAWN ZGJ	REVISED -
PLOT SCALE = 2.0000 sf / in.	CHECKED KMO	REVISED -
PLOT DATE = 10/23/2015	DATE 10/23/15	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		1			_		OL DETAILS AT UPRR
SCALE:	NTS	SHEET	1	OF	1	SHEETS	

SECTION COUNTY 2320 D1HSRR2016-04 WILL 35 9 CONTRACT NO. 62B35

MP 57-31(Main Street) - Traffie Control



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED WITH THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, 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

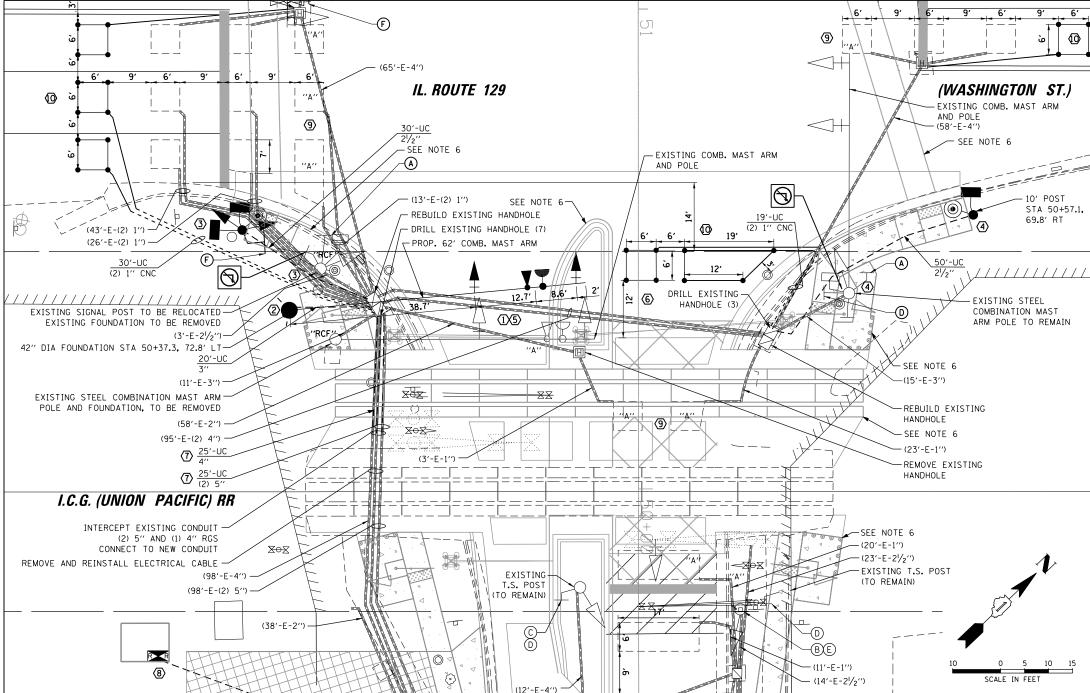
THE LOCATIONS OF MAST ARM ASSEMBLIES MAY BE CHANGED IN THE FIELD AS NECESSARY TO AVOID UTILITIES. ALL NEW LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER AND APPROVED BY THE DISTRICT TRAFFIC SIGNAL SECTION TO ENSURE THE NEW LOCATIONS MEET OPERATIONAL OFFSET/CLEAR ZONE REQUIREMENTS AND MAINTAIN PROPER POSITION OF SIGNAL HEADS IN RELATION TO THE TRAVEL LANES.

THE ENGINEER IN COORDINATION WITH THE DISTRICT TRAFFIC SIGNAL ENGINEER AND THE ICC SHALL DETERMINE THE EXACT LOCATION OF TRAFFIC SIGNAL EQUIPMENT IN THE FIELD SO THAT THE TRAFFIC SIGNAL POSTS AND APPURTENANCES DO NOT INTERFERE WITH OR OBSTRUCT THE VISIBILITY OF THE RAILROAD CROSSING SIGNALS.

## CONSTRUCTION NOTES:

AND 250 RESPECTIVELY.

- (I) TRAFFIC SIGNAL SHOULD NOT OBSTRUCT RAILROAD SIGNAL.
- (2) TWO 2 1/2 " CONDUITS SHALL BE INSTALLED IN MAST ARM FOUDATION AND STUBBED FOR USE AS RACEWAY FOR COMBINATION STREET LIGHTING. SEE LIGHTING PLANS.
- 3 THE EXISTING TRAFFIC SIGNALS, RIGHT TURN BLANK-OUT SIGN, PEDESTRIAN SIGNAL, PEDESTRIAN PUSH-BUTTON, AND TYPE 1 SIGN SHALL BE RELOCATED WITH THE TRAFFIC SIGNAL POLE TO STA 50+54.0, 82.6' LT.
- 4 THE EXISTING PEDESTRIAN SIGNAL, PEDESTRIAN PUSH-BUTTON, AND TYPE 1 SIGN SHALL BE RELOCATED TO THE NEW 10' TRAFFIC SIGNAL POST AT STA 50+57.1, 69.8' RT.
- 5 THE EXISTING SIGNAL HEADS, EMERGENCY VEHICLE EQUIPMENT, AND STREET NAME SIGN SHALL BE RELOCATED TO THE NEW 62' STEEL COMBINATION MAST ARM AT STA 50+37.3, 72.8' LT. MAST ARM TO BE ORIENTED TO AVOID CONFLICTS WITH THE RAILROAD WARNING DEVICES, AS DIRECTED BY THE ENGINEER.
- (6) TRAFFIC SIGNAL DETECTOR LOOPS SHALL BE INSTALLED AT LEAST 10 FEET FROM RAILROAD CROSSING DETECTOR LOOPS.
- (7) INSTALL CONDUIT UNDER THE PROPOSED RAILROAD TRACK WITHIN AN 8" RGS SLEEVE A MINIMUM OF 5.5 FT BELOW GRADE, PER UPRR DESIGN REQUIREMENTS. SEE DETAIL SHEET 31.
- (8) CONDUIT TO BE TERMINATED INTO THE BUNGALOW OR JUNCTION BOX MOUNTED TO THE BUNGALOW (IF PRESENT), CONTRACTOR TO COORDINATE EXACT CONDUIT TERMINATION AND TERMINATION OF CONDUCTORS/CABLE WITH RAILROAD FORCES IN THE FIELD.
- (9) DETECTOR LOOPS MARKED WITH AN "A" ARE TO BE ABANDONED AND DISCONNECTED FROM THE HANDHOLE DETECTOR LOOP SPLICE.
- PROPOSED DETECTOR LOOPS SHALL BE ADDED TO THE HANDHOLE DETECTOR LOOP SPLICE FOR THE TRAFFIC LANE THAT THE DETECTOR LOOP IS BEING ADDED TO.



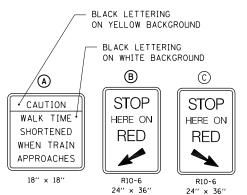
SCALE: 1"=10"

**DETAIL A** 

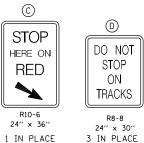
# TRAFFIC SIGNAL GENERAL NOTES

DRILL EXISTING HANDHOLE

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- 2. 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.
- 3. THE CONTRACTOR SHALL CALL THE UNION PACIFIC "CALL BEFORE YOU DIG" OPERATION AT 1-800-336-9193 FOR FIELD LOCATIONS OF UNION PACIFIC OWNED BURIED FIBER OPTIC CABLES IN UNION PACIFIC RIGHT OF WAY.
- 4. THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.
- 5. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES, IDOT, AND WILL COUNTY DIVISION OF TRANSPORTATION.
- 6. PROPOSED DRAINAGE STRUCTURES AND GEOMETRIC IMPROVEMENTS, INCLUDING TRACK WORK, ROADWAY MODIFIATIONS, PAVEMENT MARKING, DRIVEWAY, AND SIDEWALKS, BY OTHERS.
- 7. SEE LIGHTING PLANS FOR TEMPORARY AND PERMANENT LIGHTING RELATED WORK.



1 IN PLACE



3 IN PLACE





F

LEFT ON

**GREEN** 

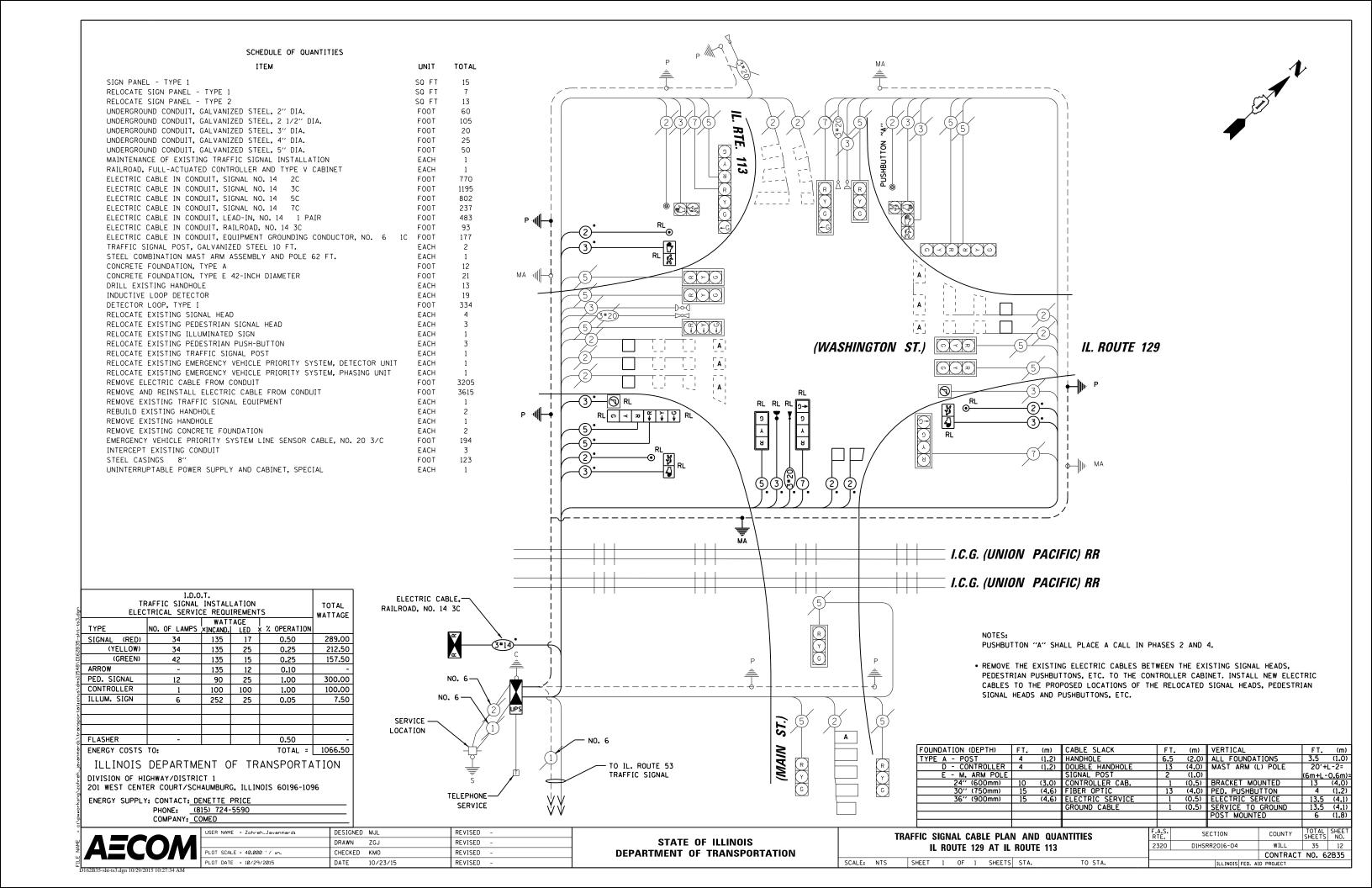


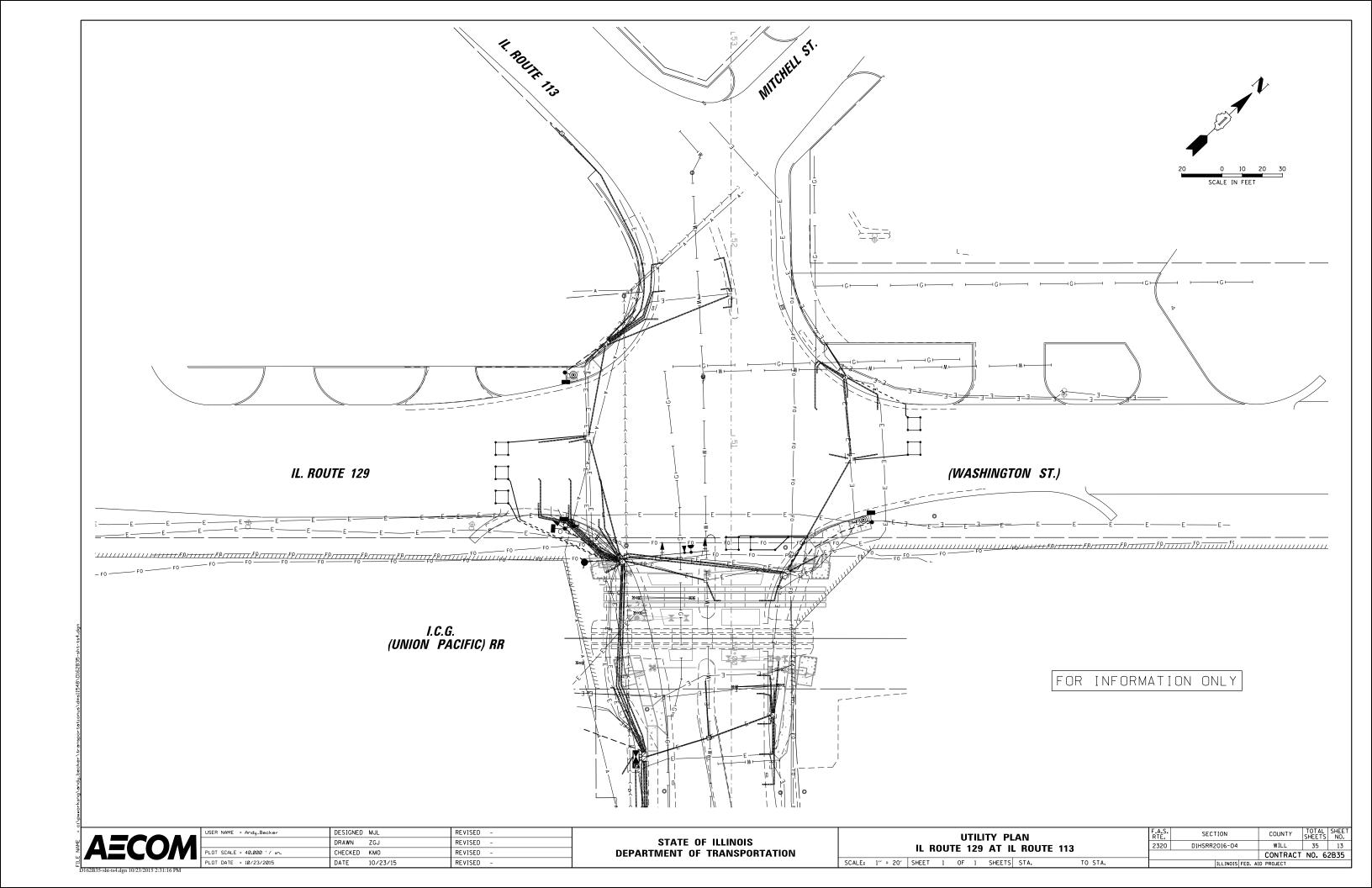
2 IN PLACE

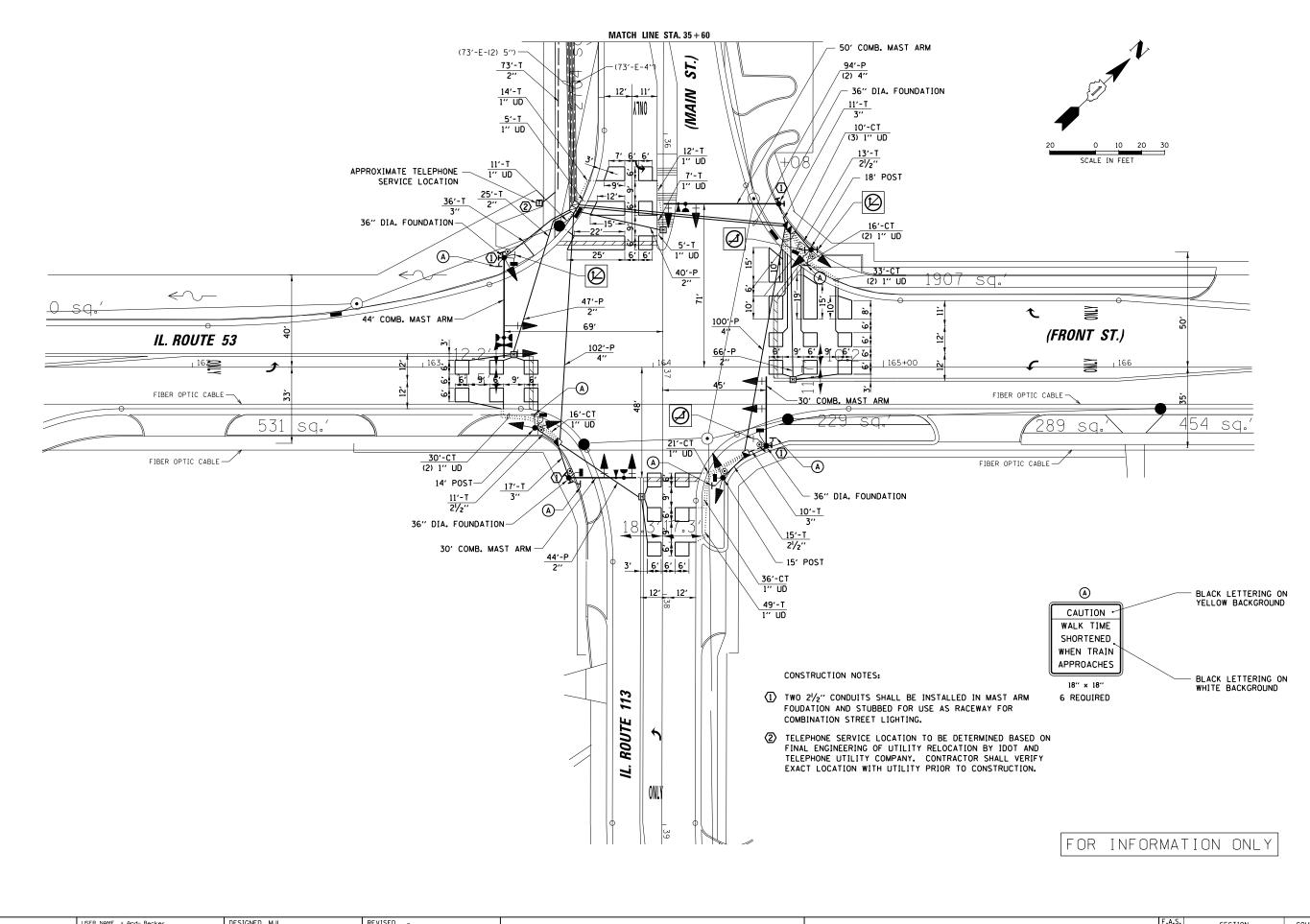
USER NAME = Zohreh_Javanmardı	DESIGNED MJL	REVISED -
	DRAWN ZGJ	REVISED -
PLOT SCALE = 20.000 '/ in.	CHECKED KMO	REVISED -
PLOT DATE = 10/29/2015	DATE 10/23/15	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

TRAFFIC SIGNAL MODIFICATION PL	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
IL ROUTE 129 AT IL ROUTE 113			D1HSRR2016-04	WILL	35	11
TE HOOTE 123 AT TE HOOTE 113				CONTRACT	NO. 6	2B35
SHEET 2 OF 2 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





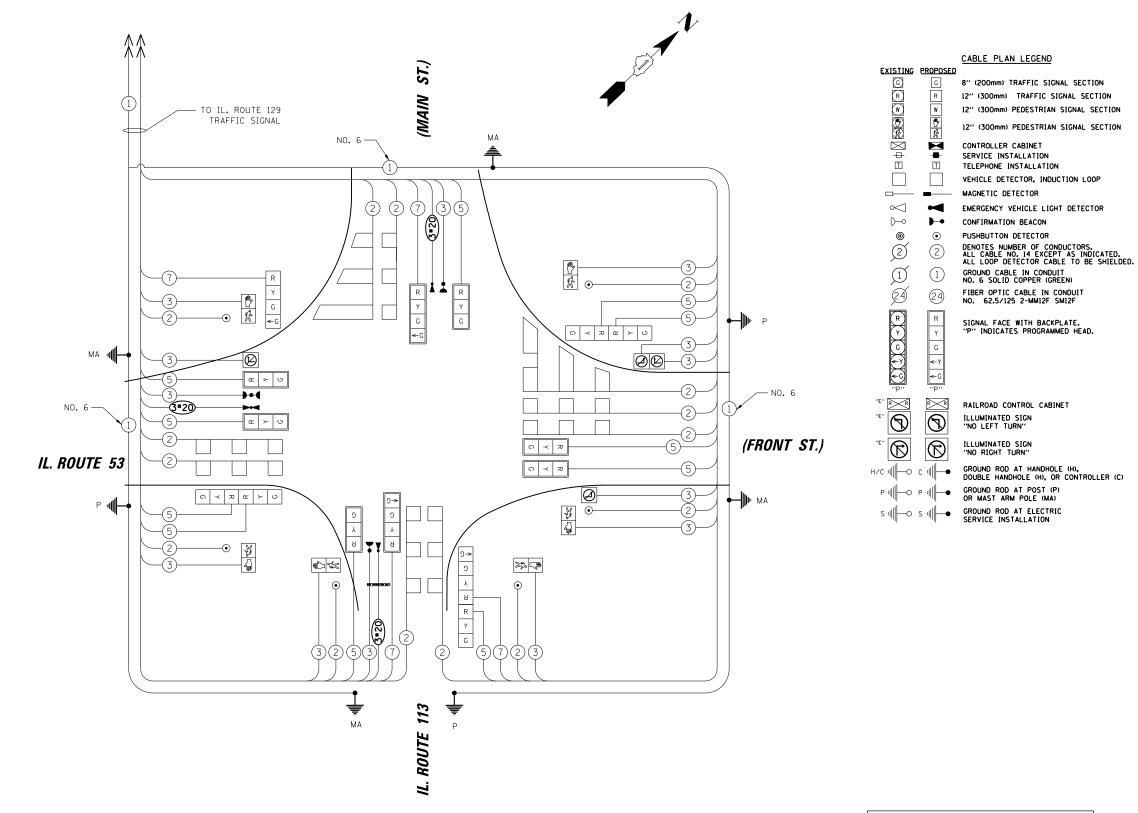


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	USER NAME - Andy-becker	DESIGNED	MJL	ME ATOED	-
l		DRAWN	ZGJ	REVISED	=
ı	PLOT SCALE = 40.000 ' / in.	CHECKED	KMO	REVISED	=
•	PLOT DATE = 10/23/2015	DATE	10/23/15	REVISED	=

EXISTING TRAFFIC SIGNAL PLAN								
		IL R	OU	TE	129	AT I	L ROUTE	53
SCALE:	20	SHEET	1	OF	1	SHEETS	STA.	TO STA.

		1001.010					
		ILLINOIS	FFD. Al	D PRO	JECT		
				COI	NTRACT	NO. 6	2B35
2320	20 D1HSRR2016-04				VILL	35	14
F.A.S. RTE.	SECT	TION	CC	UNTY	SHEETS	NO.	



FOR INFORMATION ONLY



	USER NAME = Andy_Becker	DESIGNED	MJL	REVISED	=
		DRAWN	ZGJ	REVISED	=
ı	PLOT SCALE = 40.000 '/ in.	CHECKED	KMO	REVISED	=
•	PLOT DATE = 10/23/2015	DATE	10/23/15	REVISED	=

EXISTING TRAFFIC SIGNAL CABLE PLAN IL ROUTE 129 AT IL ROUTE 53									
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.									
SCALE:	NTS	SHEET	1	OF	1	SHEETS	STA.	TO STA.	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2320	D1HSRR2016-04	WILL	35	15
		CONTRACT	NO. 6	2B35
	ILLINOIS FED. A	ID PROJECT		

# **SEQUENCE OF OPERATION**

MOVEMENT N				ال.	129	**	113	53	<b>3</b>			/		IL. 1 J[•	129	<b>↓</b>	_•-	53	=		II .	L. 1;	29	] [	IL.	- <u>1</u> 13	/	A	IL. 1	I29	13 -	JL.	53		IL.	129 IL.	113	JL	53	F
PHASE						1		1							2								3	<u> </u>						4					<u> </u> 1		5			A
INTERVAL		1	2 3	3A 3	B 4/	4B	4C	4D	4E	4F	5	6	7 A 7	В 8.	A 8B	80	8D	8E	8F	9	10 1	1A 1	1B 11	C 11D	12A	12B	13	14 1	5A 1	5B 15	SC 151	D 16A	161	B 17	7	18A	18B	18C	18D	•
CHANGE TO				2		.	0	.5   3 4 0R 5					1		.   00	(	3 4 DR 5	02	<u> </u>			<u> </u>	1	9 5			$\rightarrow$	<del>)</del>	<u> </u>	1			5				1		100	S H
IL RTE 53 AT IL RTE 113 ALL SIGNALS	N/B (	G	G	Y F	? Y	R	R	R	R	R	R	R	R F	R	R	R	R	R	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	R	2	R	R	R	R	R
IL RTE 53 AT IL RTE 113 ALL SIGNALS	S/B (	G	G	Y F	ł Y	R	R	R	R	R	R	R	R f	R	R	R	R	R	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	R	2	R	R	R	R	R
	E/B F	R	R	R F	R	R	R	R	R	R	R	R	R f	R	R	R	R	R	R	G <b>⊸</b> G	1 1		G Y <b>◆</b> G	R	G <b>⊸</b> G	G <b>⊸</b> G	I		G G	G Y	r R	G <b>⊸</b> G	G			G <b>→</b> G	G <b>→</b> G	Υ	R	R
IL RTE 113 AT IL RTE 53 FAR RIGHT MAST ARM SIGNAL	E/B F	R	R	R F	R	R	R	R	R	R	R	R	R f	R	R	R	R	R	R	G	G	G	G Y	R	G	G	G	G	G	G Y	R	G	G	G	;	G	G	Υ	R	R
IL RTE 113 AT IL RTE 53 END MAST ARM AND FAR LEFT SIGNALS	W/B F	R	R	R F	R	R	R	R	R	R	G <b>→</b> G	G <b>→</b> G	Y F	R Y	r R	R	R	R	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	R	2	R	R	R	R	R
IL RTE 113 AT IL RTE 53 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	W/B F	R	R	R F	R	R	R	R	R	R	G	G	Y F	R Y	r R	R	R	R	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	R	?	R	R	R	R	R
IL RTE 113 (EAST OF TRACKS) ALL SIGNALS	1/B (	G	G	G C	; G	G	Y	R	R	R	G	G	G (	G C	G	Y	R	R	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	R	₹	R	R	R	R	R
IL RTE 113 AT IL RTE 129 END MAST ARM AND FAR LEFT SIGNALS	N/B (	G - G <b>-</b>	· I	G G + G <del>≪</del>	G G <del>◄</del>		G <b>→</b> G	G <del>-</del> G	Y	R	G <b>→</b> G -		G ( + G <del>-</del>	G G - G <del>-</del>	G <del>&lt;</del> C		G <b>→</b> G	Y	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	R	₹	R	R	R	R	R
IL RTE 113 AT IL RTE 129 FAR RIGHT MAST ARM SIGNAL	N/B	G	G	G C	G	G	G	G	Y	R	G	G	G (	G C	G	G	G	Y	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	R	₹	R	R	R	R	R
IL RTE 113 AT IL RTE 129 END MAST ARM AND FAR LEFT SIGNALS	E/B F	R	R	R F	R	R	R	R	R	R	R	R	R f	R F	R	R	R	R	R	G <b>→</b> G	G <b>→</b> G	Υ	R F	R	Y	R	R	R	R	R R	R	R	R	R	₹	R	R	R	R	R
IL RTE 113 AT IL RTE 129 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	E/B F	R	R	R F	R	R	R	R	R	R	R	R	R f	R F	R	R	R	R	R	G	G	Υ	R F	R	Y	R	R	R	R	R R	R	R	R	R	₹	R	R	R	R	R
IL RTE 129 AT IL RTE 113 ALL SIGNALS	√B F	R	R	R F	R	R	R	R	R	R	R	R	R f	R F	R	R	R	R	R	R	R	R	R F	R	R	R	R	R	R	R R	R	R	R	G	;	Y	R	R	R	R
IL RTE 129 AT IL RTE 113 END MAST ARM AND FAR LEFT SIGNALS	5/B -	- R -	<b>+</b> R <b>−</b>	+ R <del>-</del>	R 🔫	R 🔫 R	<b>→</b> R	→ R	→ R	<b>→</b> R -	<b>→</b> R	<b>→</b> R <b>→</b>	+R <del>→</del>	- R 🚤	R 🔫 F	R - R	R R	<b>→</b> R	<b>→</b> R	→ R	<b>→</b> R -	<b>+</b> R <b>-</b>	+ R <b>→</b>	R 🔫 R	<b>→</b> R	<b>→</b> R	<b>→</b> G <b>→</b>	<b>-</b> G -	<b>→</b> Y <b>→</b>	+ R <del>-</del>	R 🔫 I	R 🔫 Y	4	R 🔫	R -	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R
IL RTE 129 AT IL RTE 113 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	S/B F	R	R	R F	R	R	R	R	R	R	R	R	R f	RF	R	R	R	Я	R	R	R	R	RF	R	R	R	G	G	Y	RR	R	G	G	G	;	Y	R	R	R	R
PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON EAST SIDE OF IL RTE 53	*	₽ *	<b>∗</b> FH	н н	Н	н	н	н	н	н	Н	Н	н	- Н	н	Н	н	Н	Н	н	н	н	н н	н	н	н	Н	н	н	н н	Н	н	н	Н	1	н	Н	Н	Н	
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON NORTH SIDE OF IL RTE 113	F	4	н	н н	н	н	н	н	н	н	*P	**FH	н	- Н	н	н	н	н	н	н	н	н	н н	н	н	н	н	н	н	н н	Н	Н	н	н	1	н	Н	Н	Н	ט
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON SOUTH SIDE OF IL RTE 113	F	-	н	н н	Н	н	н	н	Н	н	Н	Н	н	- Н	н	н	Н	н	Н	*P	**FH	н	н н	н	н	Н	Н	Н	н	н н	і н	Н	н	н	1	н	Н	Н	Н	Α
PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON WEST SIDE OF IL RTE 129	١	-	н	н н	Н	н	н	н	н	н	н	н	н	н н	н	н	н	н	н	Н	н	н	н н	н	н	Н	*P *	<b>*</b> F H	н	н н	н	Н	н	н		н	н	Н	н	R
PEDESTRIAN SIGNALS CROSSING IL RTE 129 ON NORTH SIDE OF IL RTE 113	F	-	н	н н	Н	н	н	н	Н	Н	*P	**FH	н	- Н	Н	Н	н	н	Н	Н	н	Н	н н	н	н	Н	Н	Н	н	н н	і н	Н	н	н	1	Н	Н	Н	Н	''
PEDESTRIAN SIGNALS CROSSING IL RTE 129 ON SOUTH SIDE OF IL RTE 113	F	-	н	н н	Н	н	н	н	н	н	н	н	н	н	н	н	н	Н	н	*P	**FH	н	н н	н	н	н	н	н	н	н н	Н	н	Н	н	1	н	н	н	н	К

SHALL DE LE

NORTHBOUND AND SOUTHBOUND IL ROUTE 53 SHALL BE PLACED ON RECALL

- \* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION
- \*\* FLASHING TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
- P = ILLUMINATED PERSON = WALK
- FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
- H = ILLUMINATED SOLID HAND = DON'T WALK

THIS "M" OR FLASHING "M" INTERVAL MAY FINISH TIMING IN THE
BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME
IS NOT SUFFICIENT TO COMPLETE "M" OR FLASHING "M" INTERVALS.

"M" AND FLASHING "M" TIMINGS TO BE SET ONLY ON PHASES WHERE
"M" AND FLASHING "M" ARE INDICATED IN THE SEQUENCE OF
OPERATION.

FOR INFORMATION ONLY

FILE NAME =	<b>AECOM</b>	
Í	D162B35-sht-ts7.dgn 10/23/2015 2:32:21 PM	Τ

USER NAME = Andy_Becker	DESIGNED	MJL	REVISED	-
	DRAWN	ZGJ	REVISED	=
PLOT SCALE = 2.3360 '/ in.	CHECKED	KMO	REVISED	=
PLOT DATE = 10/23/2015	DATE	10/23/15	REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		NOI	RMA	L SE	QUI	ENCE O	F OPERAT	ION	F.A.S. RTE.	SECT			
	IL ROUTE 113 AT UPRR												
	12 110012 110 711												
SCALE:	NTS	SHEET	1	OF	1	SHEETS	STA.	TO STA.		I			

# EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER				1				1		1			5				5		5		9		9			9		13	3		13				13	
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B 1C	1D	1E	1F	1G 1H	1J	1K	1L	1M	1N	1P 1	Q 1F	R 1S	17	Γ 1U	1V 1	.w 13	x 1	IY 1Z	1AA	1BB 1CC	C 1D	) IEE	1FF	1GG 1F	IH 1J	J IKI	< 1LL	1MM 1N	NN 1P	P 100	) IRR	ıss	117
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	1C 1C	1E	1F	1G	2 0R 1J 5	1K	3	4	1N	1P	10 1	R 15	S 1T	2 0F 5	3	1W :	x 4	1 :	2 1AA	1BB	1CC 1DE	3 D OF 4	1FF	1GG	5 1.	JJ 1K	K 2	1MM	1NN 1F	P 10	30 OF	155	177	5
IL RTE 53 AT IL RTE 113 ALL SIGNALS	N/B	G	Y R	R	R	R	R G	Y	R	G	R	R	R I	R F	R	R	R	R	R F	۱ ۶	R R	R	R R	R	R	R	R F	₹ R	R R	R	R F	R F	R R	R	R	R
IL RTE 53 AT IL RTE 113 ALL SIGNALS	S/B	G	Y R	R	R	R	R G	Y	R	G	R	R	R I	₹ F	R	R	R	R	R F	۱ ۶	R R	R	R R	R	R	R	R F	₹ R	R	R	R	R F	R R	R	R	R
IL RTE 113 AT IL RTE 53 END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R R	R	R	R	R R	R	R	R	R	R	R I	₹ F	R	R	R	R	R F	<i>(</i>	G G ◆G <del>&lt;</del> G	G <b>→</b> G	G Y	R	G •	G <b>→</b> G	G (		- 1		G C	G ►G	Y R	G <b>→</b> G	G <b>⊸</b> G	
IL RTE 113 AT IL RTE 53 FAR RIGHT MAST ARM SIGNAL	E/B	R	R R	R	R	R	R R	R	R	R	R	R	R I	₹ F	R	R	R	R	R F	١ ١	G G	G	G Y	R	G	G	G	G	G	G	G	G Y	Y R	G	G	G
IL RTE 113 AT IL RTE 53 END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R R	R	R	R	R R	R	R	R	G <b>→</b> G	Y	R I	₹ F	R	R	G <b>→</b> G	G <b>→</b> G	Y F	۱ ۶	R R	R	R R	: R	R	R	R F	₹ R	R	R	R F	R F	R R	R	R	R
IL RTE 113 AT IL RTE 53 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	W/B	R	R R	R	R	R	R R	R	R	R	G	Y	R I	₹ F	R	R	G	G	Y F	۱ ۱	R R	R	R R	: R	R	R	R F	₹ R	R	R	R	R F	R R	R	R	R
IL RTE 113 (EAST OF TRACKS) ALL SIGNALS	W/B	G	G G	Y	R	R	R G	G	G	G	G	G	G ,	r F	R	R	G	G	G C	; 1	R R	R	R R	R	R	R	R F	₹ R	R	R	R	R F	R R	R	R	R
IL RTE 113 AT IL RTE 129 END MAST ARM AND FAR LEFT SIGNALS	W/B	G <b>→</b> G	G G → G →	G G		Y	R G <b>→</b> (		-	G <b>→</b> G	G G-		- 1	G G + G <del>≪</del>	1 Y	R	G <b>→</b> G	G G	G C ♣ G <del>⋖</del>		R R	R	R R	R	R	R	R F	₹ R	R	R	R	R F	R R	R	R	R
IL RTE 113 AT IL RTE 129 FAR RIGHT MAST ARM SIGNAL	W/B	G	G G	G	G	Y	R G	G	G	G	G	G	G (	3 0	; Y	R	G	G	G C	; I	R R	R	R R	: R	R	R	R F	₹ R	R	R	R	R F	R R	R	R	R
IL RTE 113 AT IL RTE 129 END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R R	R	R	R	R R	R	R	R	R	R	R	R F	R	R	R	R	R F		G G ◆ G <del> </del>	Y	R R	R	G •	Y	R F	₹	R	R	R	R F	R R	R	R	R
IL RTE 113 AT IL RTE 129 FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	E/B	R	R R	R	R	R	R R	R	R	R	R	R	R I	₹ F	R	R	R	R	R F	۲ (	G G	Y	R R	: R	G	Y	R F	₹ R	R	R	R	R F	R R	R	R	R
IL RTE 129 AT IL RTE 113 ALL SIGNALS	N/B	R	R R	R	R	R	R R	R	R	R	R	R	R	₹ F	R	R	R	R	R F	۱ ۶	R R	R	R R	: R	R	R	R F	₹	R	R	R	R F	R R	R	R	R
IL RTE 129 AT IL RTE 113 END MAST ARM AND FAR LEFT SIGNALS	S/B _	<b>⊸</b> R	<b>→</b> R <b>→</b>	R 🔫	R <del>→</del> R	<b>→</b> R	<b>→</b> R <b>→</b> 1	₹ -	R <b>→</b> R	<b>→</b> R	<b>→</b> R -	<b>→</b> R -	<b>-</b> R <b>-</b>	+ R <del>-</del>	R 🔫	R 🔫	R 🕶 R	<b>→</b> R <b>→</b>	₽R <del>-</del>	- R 🔫	+R <del>→</del> R	<b>→</b> R	<b>→</b> R <b>→</b>	R <del>-</del>	R <del>→</del> F	<b>₹</b> F	R → R →	- G 🚤	· Y 🕶	R <del>→</del> G	, <b>Y</b>	+ R <b>→</b>	⊦R <del></del>	R <b>←</b> G	<b>→</b> Y	-
IL RTE 129 AT IL RTE 113 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	S/B	R	R R	R	R	R	R R	R	R	R	R	R	R	R F	R R	R	R	R	R F	۱ ۶	R R	R	R R	R	R	R	R (	; Y	r R	G	Y	R F	R R	G	G	G
PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON EAST SIDE OF IL RTE 53		FH	н н	н	Н	н	н ғн	Н	Н	FH	н	н	н	1 F	н	Н	Н	н	н н	4	н н	Н	н н	Н	н	н	н	1 Н	н	Н	н	н	н н	Н	н	Н
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON NORTH SIDE OF IL RTE 113		Н	н н	н	Н	н	н н	н	Н	н	FH	Н	н	1 F	н	н	FH	FH	н н	1 1	н н	Н	н н	н	Н	н	н	1 Н	н	н	н '	н і	н н	Н	н	н
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON SOUTH SIDE OF IL RTE 113		Н	н н	н	Н	Н	н н	н	н	н	н	н	н	4 F	Н	н	Н	н	н н	1 F	Н БН	н	н н	н	FH	н	н	1 Н	н	н	н	н н	н н	Н	н	н
PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON WEST SIDE OF IL RTE 129		Н	н н	н	Н	Н	н н	н	н	н	н	н	н	4 F	Н	н	Н	н	н н	1 1	н н	Н	н н	Н	н	Н	H F	н	н	FH	н	н н	н н	FH	н	н
PEDESTRIAN SIGNALS CROSSING IL RTE 129 ON NORTH SIDE OF IL RTE 113		Н	н н	н	Н	Н	н н	н	н	н	FH	н	н	4 F	н	н	FH	FH	н н	1 1	н н	н	н	Н	н	н	н	1 Н	н	н	н	н	н н	Н	н	Н
PEDESTRIAN SIGNALS CROSSING IL RTE 129 ON SOUTH SIDE OF IL RTE 113		Н	н н	Н	н	н	н н	Н	н	н	н	н	н	4 F	н	н	Н	н	н н	1 F	Н БН	Н	н н	Н	FH	н	н	1 Н	1 Н	н	н	н	н н	н	н	н

♦ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE 2, 3, 4, OR 5 IS TERMINATED.

FOR INFORMATION ONLY

SCALE:

FILE NAME =	<b>AECOM</b>	
1	D162B35-sht-ts8.dgn 10/23/2015 2:32:45 PM	

USER NAME = Andy_Becker	DESIGNED	MJL	REVISED -
	DRAWN	ZGJ	REVISED -
PLOT SCALE = 2.1300 '/ in.	CHECKED	KMO	REVISED -
PLOT DATE = 10/23/2015	DATE	10/23/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E	MERGEN	CY VEH	IICLE	PR	EEM	PTION	SEQUEN	CE OF OPERATION	F.A.S. RTE.	SECT	TION		COUNTY	5
IL ROUTE 113 AT UPRR					2320	D1HSRR2	016-04		WILL	T				
					•		• • • • • • • • • • • • • • • • • • • •						CONTRAC	T
.E:	NTS	SHEET	1	OF	2	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT	

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION								PREEMPTOR 3	PREEMPTOR 4	PREEMPTOR 5	PREEMPTOR 6	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		17		17			17					CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	100	1VV	1WW	1XX	1YY	1ZZ	1AAA	2	3	4	5	NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1VV	2	1XX	1YY	1ZZ	3 OR 4	5					$\Diamond$
IL RTE 53 AT IL RTE 113 N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	G	R	$\Diamond$
IL RTE 53 AT IL RTE 113 S/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	G	R	$\Diamond$
IL RTE 113 AT IL RTE 53 E/B END MAST ARM AND FAR LEFT SIGNALS	G <b>→</b> C	G <b>→</b> G	G <b>→</b> G	G <b>→</b> G	Y	R	G <b>→</b> G	G <b>⊸</b> G	R	R	G <b>→</b> G	$\Diamond$
IL RTE 113 AT IL RTE 53 E/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	Y	R	G	G	R	R	G	$\Diamond$
IL RTE 113 AT IL RTE 53 W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	G <b>→</b> G	R	R	$\Diamond$
IL RTE 113 AT IL RTE 53 W/B FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	G	R	R	$\Diamond$
IL RTE 113 (EAST OF TRACKS) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	G	G	R	$\Diamond$
IL RTE 113 AT IL RTE 129 W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	G <b>→</b> G	G <b>→</b> G	R	$\Diamond$
IL RTE 113 AT IL RTE 129 W/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	G	G	R	$\Diamond$
IL RTE 113 AT IL RTE 129 E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	G <b>→</b> G	R	R	R	$\Diamond$
IL RTE 113 AT IL RTE 129 E/B FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	R	R	R	$\Diamond$
IL RTE 129 AT IL RTE 113 N/B ALL SIGNALS	Y	R	Y	R	R	R	G	R	R	R	G	$\Diamond$
IL RTE 129 AT IL RTE 113 S/B END MAST ARM AND FAR LEFT SIGNALS	<b>→</b> F	R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	$\Diamond$
IL RTE 129 AT IL RTE 113 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	Y	R	Y	R	R	R	G	R	R	R	G	$\Diamond$
PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON EAST SIDE OF IL RTE 53	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	$\Diamond$
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON NORTH SIDE OF IL RTE 113	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	$\Diamond$
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON SOUTH SIDE OF IL RTE 113	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	$\Diamond$
PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON WEST SIDE OF IL RTE 129	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	<b>\Q</b>
PEDESTRIAN SIGNALS CROSSING IL RTE 129 ON NORTH SIDE OF IL RTE 113	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	$\Diamond$
PEDESTRIAN SIGNALS CROSSING IL RTE 129 ON SOUTH SIDE OF IL RTE 113	н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	$\Diamond$

FOR INFORMATION ONLY



USER NAME = Andy_Becker	DESIGNED MJL	REVISED -
	DRAWN ZGJ	REVISED -
PLOT SCALE = 2.1300 '/ in.	CHECKED KMO	REVISED -
PLOT DATE = 10/23/2015	DATE 10/23/15	REVISED -

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.		EMERGEN	CY VEH				IPTION : 113 AT		OF OPERATION	
SCALE: NIS SHEET 2 OF 2 SHEETS STA. TO STA.	SCALE:	NTS	SHEET	2	OF	2	SHEETS	STA.	TO STA.	

F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
2320	D1HSRR2016-04		WILL	35	18
			CONTRACT	NO. 6	2B35
	ILLINOIS F	ED. AID	PROJECT		

SEQUENCE INTERVAL NUMBER		PREEMPTOR NUMBER 2				PREEN NUMB															<u>N</u>	RAILROAD PREEMPTION SEQUENCE OF OPERATION
SECUENCE OF OPERATION NUMBER  RAIROAD PRECMPTION INTERVAL  1A 1B 1C 1D 1E 1F 1G 1H 1J 1K 1L 1M IN 1P 10 1R 1S 1T 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5											7	1	3	1	9		,	5	l	1		
CHANGE TO RAILROAD PREEMPTION   SEQUENCE INTERVAL NUMBER   18 2 10 2 1F 2 1H 2 1K 2 1M 2 1P 2 1R 2 1T 2 3 4 5			5		4		3	3	2	2												
SEQUENCE INTERVAL NUMBER	2 3 4 5 CLEAR TO	2	1T	15	1R	10	1P	1N	1M	1L	1K	1J	1H	1G	1F	1E	1D	1C	1B	1A		RAILROAD PREEEMPTION INTERVAL
ALL SIGNALS  IL RIE 53 AT IL RIE 13  S/B Y R R R R R R R R R R R R R R R R R R	3 4 5 NORMAL SEQUENCE	3	2	1T	2	1R	2	1P	2	1M	2	1K	2	1H	2	1F	2	1D	2	1B		
ALL SIGNALS  IL RTE 113 AT IL RTE 53  E/B R R R R R G G G G G G G R R R R R R G G G G G G G R R R R R G G G G Y R R R R	R R R G $\triangle$	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	Я	R	R	Y	N/B	
END MAST ARM AND FAR LEFT SIGNALS    R   R   R   R   R   R   R   R   R	R R R G 🛆	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	S/B	
FAR RIGHT MAST ARM SIGNAL  IL RTE 113 AT IL RTE 53  END MAST ARM AND FAR LEFT SIGNALS  W/B  R  R  Y  R  R  R  R  R  R  R  R  R  R		_	-	-	R	R	R	R	_	-	_	-	-	-	-		R	R	R	R	E/B	
END MAST ARM AND FAR LEFT SIGNALS    K	G Y R R $\triangle$	G	G	G	R	R	R	R	G	O	G	G	G	G	G	G	Я	R	R	R	E/B	
FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS    R	R R R A	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	W/B	
ALL SIGNALS  IL RTE 113 AT IL RTE 129 END MAST ARM AND FAR LEFT SIGNALS  W/B G G G G G G G G G G G G G G G G G G G	R R R A	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	W/B	
END MAST ARM AND FAR LEFT SIGNALS  ———————————————————————————————————	R R R R △	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	Y	W/B	
FAR RIGHT MAST ARM SIGNAL  IL RTE 113 AT IL RTE 129 END MAST ARM AND FAR LEFT SIGNALS  E/B R R R R R R R R R R R R R R R R R R R		_	R	R		_			R	R	R	R	R	R	R	R	-	_	_	_	W/B	
END MAST ARM AND FAR LEFT SIGNALS    R	G Y R R $\triangle$	G	R	R	G	G	G	G	R	R	R	R	R	R	R	R	G	G	G	G	W/B	
FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS  R R R R R R R R R R R R R R R R R R R	R R R A	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Υ	R	R	R	R	E/B	
ALL SIGNALS  R R R R R R R R R R R R R R R R R R R	R R R A	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Υ	R	R	R	R	E/B	
END MAST ARM AND FAR LEFT SIGNALS  IL RTE 129 AT IL RTE 113  NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS  R R R R R R R R R R R R R R R R R R R	R R R G 🛆	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	N/B	
NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS  R R R R R R R R R R R R R R R R R R R	$\blacksquare R \blacksquare R \blacksquare R \blacksquare A$	<b>→</b> R	R <b>→</b> R	₹ - F	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> R	<b>→</b> Y	<b>→</b> R	S/B						
	R R R G 🛆	R	R	Y	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	S/B	
	н н н н 🛆	Н	Н	Н	Н	Н	Н	н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	Н	FH		PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON EAST SIDE OF IL RTE 53
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON NORTH SIDE OF IL RTE 113	н н н н 🛆	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	н		
PEDESTRIAN SIGNALS CROSSING IL RTE 53 ON SOUTH SIDE OF IL RTE 113	н н н н Δ	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н		
PEDESTRIAN SIGNALS CROSSING IL RTE 113 ON WEST SIDE OF IL RTE 129  H H H H H H H H H H H H H H H H H H H	н н н н Δ	Н	Н	Н	Н	Н	Н	н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н		
PEDESTRIAN SIGNALS CROSSING IL RTE 129  ON NORTH SIDE OF IL RTE 113  H H FH H H H H H H H H H H H H H H H H	н н н н Δ	Н	н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	Н	Н	Н	Н	FH	Н	н		
PEDESTRIAN SIGNALS CROSSING IL RTE 129 ON SOUTH SIDE OF IL RTE 113	н н н н Δ	Н	н	Н	Н	н	Н	н	Н	Н	Н	н	Н	Н	н	FH	Н	н	Н	Н		
INTERNALLY ILLUMINATED NRT SIGNS NRT	IRT NRT NRT NRT $\triangle$	NRT	T NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT		INTERNALLY ILLUMINATED NRT SIGNS
INTERNALLY ILLUMINATED NLT SIGNS  NLT	ILT NLT NLT NLT $\triangle$	NL T	T NLT	NL T	NL T	NL T	NL T	NL T	NL T	NL T	NLT	NL T	NL T	NL T	NL T	NLT	NL T	NL T	NL T	NL T		INTERNALLY ILLUMINATED NLT SIGNS

A RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

NLT = "NO LEFT TURN" OR

NRT = "NO RIGHT TURN" OR

FOR INFORMATION ONLY



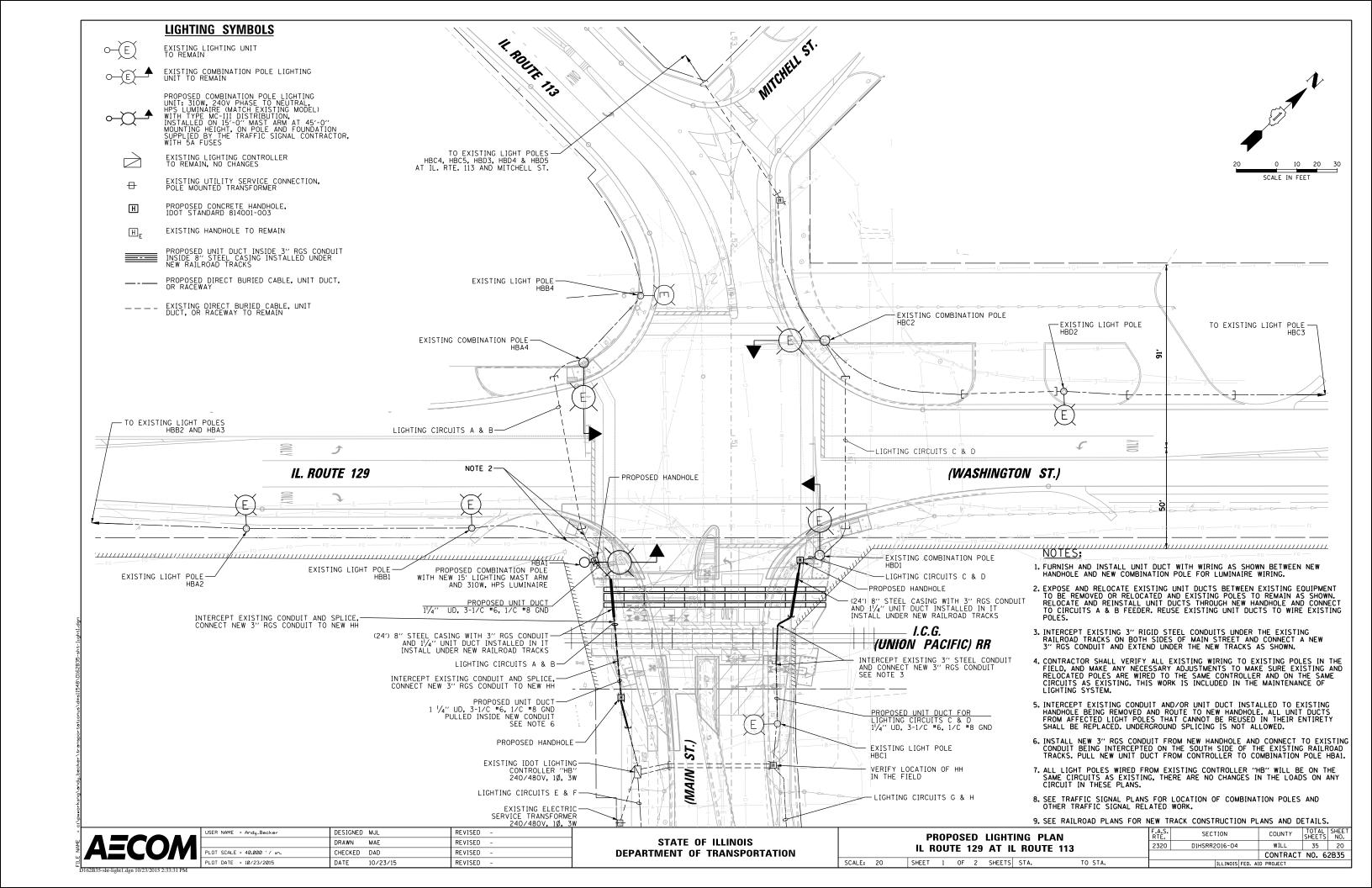
JSER NAME = Andy_Becker	DESIGNED	MJL	REVISED	-
	DRAWN	ZGJ	REVISED	=
PLOT SCALE = 2.1974 ' / in.	CHECKED	KMO	REVISED	=
PLOT DATE = 10/23/2015	DATE	10/23/15	REVISED	=

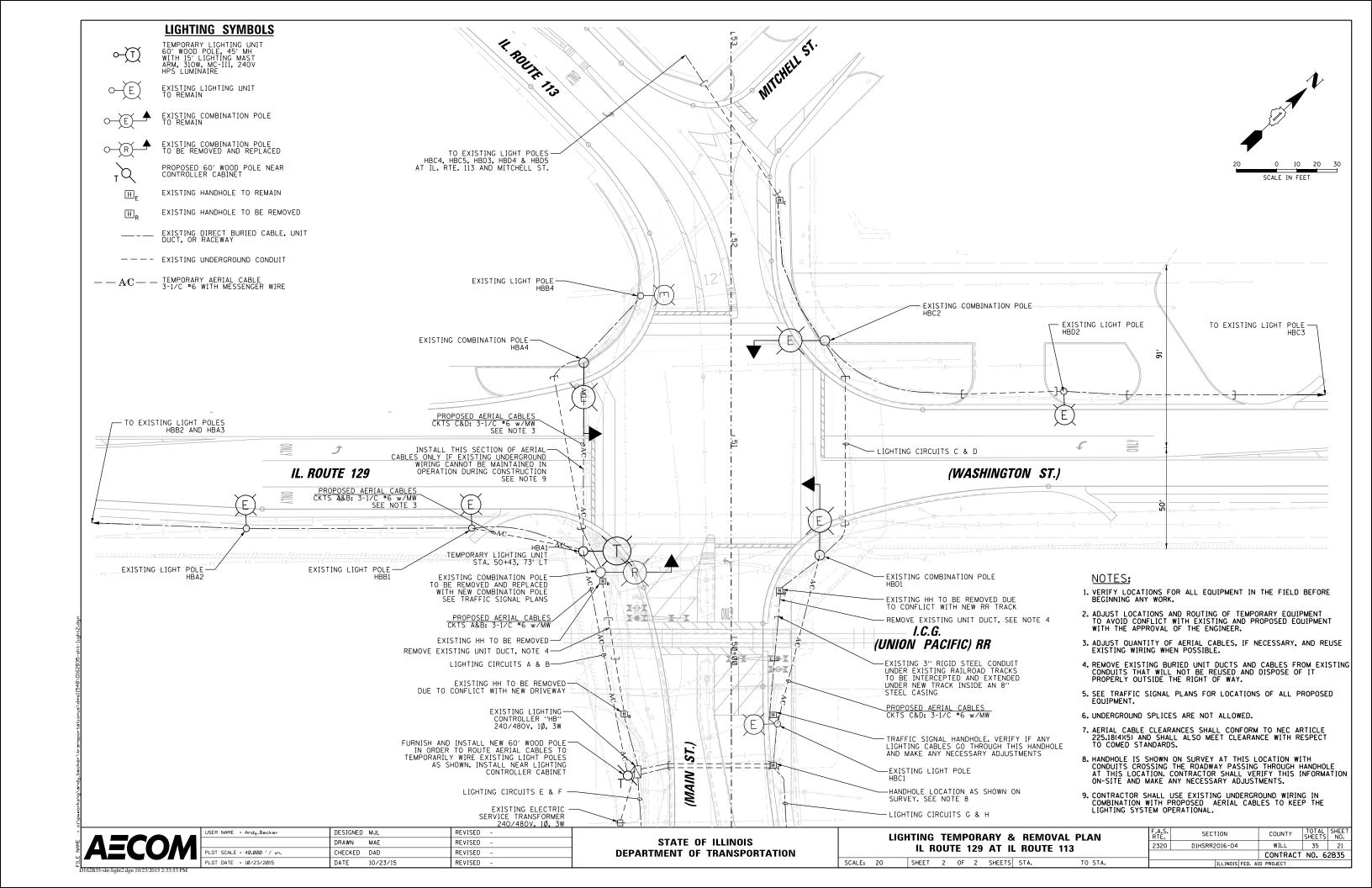
RAILRO	F.A.S. RTE.	ION									
	2320	D1HSRR2	016-04								
				113 AT							Ī
SCALE: NTS	SHEET	1	OF 1	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ī

COUNTY TOTAL SHEET NO.

WILL 35 19

CONTRACT NO. 62B35





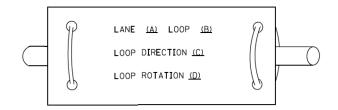
# TRAFFIC SIGNAL LEGEND

								1			
<u>ITEM</u>	REMOVAL	EXISTING	PROPOS <b>E</b> D	ITEM	REMOVA	L <u>EXISTING</u>	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	$\bowtie$ R	$\bowtie$	$\blacksquare$	EMERGENCY VEHICLE LIGHT DE	TECTOR R ≪	<b>≪</b>	<b>◄</b>	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON	$R_{o-0}$	$\circ \!\!\!\!-\!\!\!\!\!-\!\!\!\!\!\!\!\!\!-\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	<b>H</b>			-/	
COMMUNICATIONS CABINET	C C	ECC	CC	HANDHOLE	R⊠			COAXIAL CABLE		<u> </u>	<u> </u>
MASTER CONTROLLER		EMC	MC	HANDHOLL				VENDO ALBI E ESP. ALVEDI		$\prec$	
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	RH	Н	H	VENDOR CABLE FOR CAMERA		<del>_</del> Ø	
UNINTERRUPTABLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE	R 🗖		<b>X</b>	COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u> </u>	<u>—6</u> —
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	- <u></u> R	-□- <sup>P</sup>	<u>-</u> ■P	JUNCTION BOX	R	0	•	FIBER OPTIC CABLE		(2F)	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P.	UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				NO. 62,5/125, MM12F FIBER OPTIC CABLE		— <u>2</u> 4 <u>F</u> —	—(24F)—
STEEL MAST ARM ASSEMBLY AND POLE	R	0	•——	TEMPORARY SPAN WIRE, TETHE AND CABLE	R WIRE, R			NO. 62.5/125, MM12F SM12F			
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	FIBER OPTIC CABLE		<u> </u>	—36F)—
STEEL COMBINATION MAST ARM	R	0-¤	• <del>×</del>	COILABLE NONMETALLIC CONDU	JIT (EMPTY)		CNC	NO. 62.5/125, MM12F SM24F			
ASSEMBLY AND POLE WITH LUMINAIRE	"O-≭——	<del>-</del> Ω		SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		C I∥—∘	°⊪⊶
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	PIZI			INTERSECTION ITEM		I	<b>I</b> Ρ	OR (S) SERVICE		.111 ~	<b>4</b>    - *
SIGNAL POST	RO	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R⊗	⊗	•	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED			
BETTER) 45 FOOT (13.7m) MINIMUM	$\otimes$	ů.	•	ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
GUY WIRE	>R	>	$\succ$	12" (300mm) TRAFFIC SIGNAL	SECTION	R	R	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD	R →	$\rightarrow$	-	12" (300mm) RED WITH 8" (20)	(Omm)	R		FOUNDATION TO BE REMOVED	C RMF		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			<b>→</b> <sup>2</sup>	YELLOW AND GREEN TRAFFIC S		R Y C		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O–X———		
SIGNAL HEAD WITH BACKPLATE	+	+1>	+►			R	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R −D′′P′′	— <b>▷</b> ′′p′′	<b>→</b> "P"	SIGNAL FACE		- G Y G G	G <del>•</del> Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- <b>⊳</b> ′′F′′	O- <b>'</b> F''	<b>● →</b> "F"			<b>€</b> ©	<b>∢</b> G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	Is
PEDESTRIAN SIGNAL HEAD	<b>R</b> -□	-0	-			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	<b>©</b>	<b>©</b>	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED H		× (c)	Y G	QUEUE DETECTOR		[ <u>a</u> ]	0
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	@APS	APS	"RB" INDICATES REFLECTIVE E	BACKPLATE	<b>*</b>	<b>←</b> Y <b>←</b> G				
ILLUMINATED SIGN	R		•			"P"	"P"	PREFORMED QUEUE DETECTOR		PO	PQ
"NO LEFT TURN"		<b>S</b>		12" (300mm) PEDESTRIAN SIGN WALK/DON'T WALK SYMBOL	IAL HEAD	(W) (W)		PREFORMED INTERSECTION AND SAMPLING		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R R	8	<b>®</b>	12" (300mm) PEDESTRIAN SIGN	IAL HEAD			(SYSTEM) DETECTOR			
DETECTOR LOOP. TYPE I	<u></u> ,	[-]		INTERNATIONAL SYMBOL, OUTL				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
DETECTOR LOOF, TIPE 1		i j	<b>□</b>	12" (300mm) PEDESTRIAN SIGN	IAL HEAD	<b>(*)</b>	•	DAUBOAD			
PREFORMED DETECTOR LOOP		Î-Î	Р	INTERNATIONAL SYMBOL, SOLID	)		×	RAILROAD	2 AINIR	NF2	
MICROWAVE VEHICLE SENSOR	R M [1]	M	<u> </u>	PEDESTRIAN SIGNAL HEAD, INT SYMBOL, WITH COUNTDOWN TIM		<b>●</b> C <b>☆</b> D	<b>₽</b> C <b>★</b> D			<u>EXISTING</u>	<u>PROPOSED</u>
VIDEO DETECTION CAMERA	$\mathbb{Q}^{\mathbb{R}}$	(V)	<b>(</b> )	RADIO INTERCONNECT	##*C	) ##+•		RAILROAD CONTROL CABINET			R►◀R
VIDEO DETECTION ZONE				RADIO REPEATER	R ERR	"	RR	RAILROAD CANTILEVER MAST ARM		X <del>OX X</del> X	XXX X
PAN, TILT, ZOOM CAMERA	R ₽IZKJ	PIZ	₽TZ <b>I</b>	DENOTES NUMBER OF CONDUCT	ORS, ELECTRIC	~		FLASHING SIGNAL		<del>Zo</del> Z	<b>X⊕X</b>
WIRELESS DETECTOR SENSOR	RW	W	(W)	CABLE NO. 14, UNLESS NOTED ALL DETECTOR LOOP CABLE TO		(5)		CROSSING GATE		<del>X0</del> <del>X&gt;</del>	<del>***</del>
WIRELESS ACCESS POINT	R D			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1	CROSSBUCK		*	*
FILE NAME = USER NAME = footemy c:\pw_work\pwidot\footemy\d0108315\ts05-#gn		DESIGNED - DAG/BCK DRAWN - BCK	REVISED	- DAG 1-1-14	STATE OF ILLIN			DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.S. RTE. 2320	SECTION D1HSRR2016-04	COUNTY TOTAL SHEETS NO WILL 35 22
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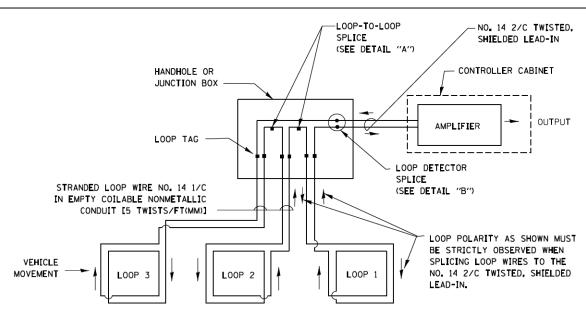
# LOOP DETECTOR NOTES

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

# LOOP LEAD-IN CABLE TAG

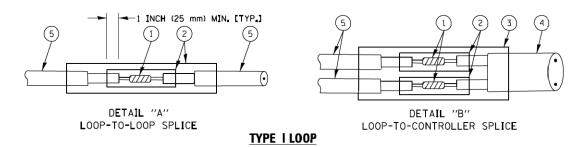


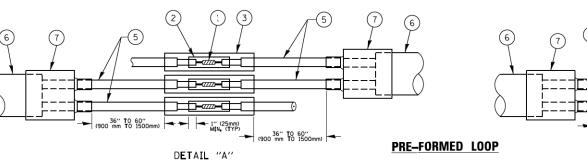
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP •1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

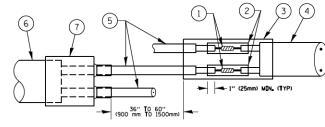


# DETECTOR LOOP WIRING SCHEMATIC

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







DETAIL "B"

LOOP-TO-CONTROLLER SPLICE

TOTAL SHEE NO.

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.

LOOP-TO-LOOP SPLICE

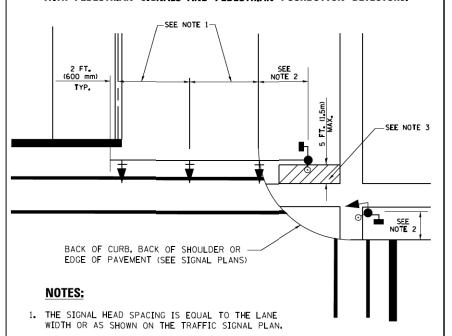
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

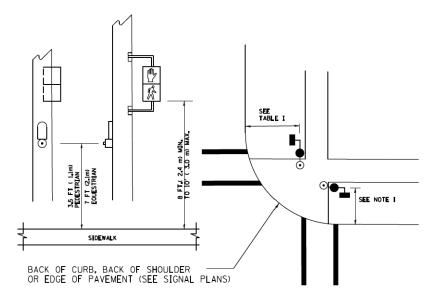
COUNTY DISTRICT ONE D1HSRR2016-04 WILL STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05 CONTRACT NO. 62B35 SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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



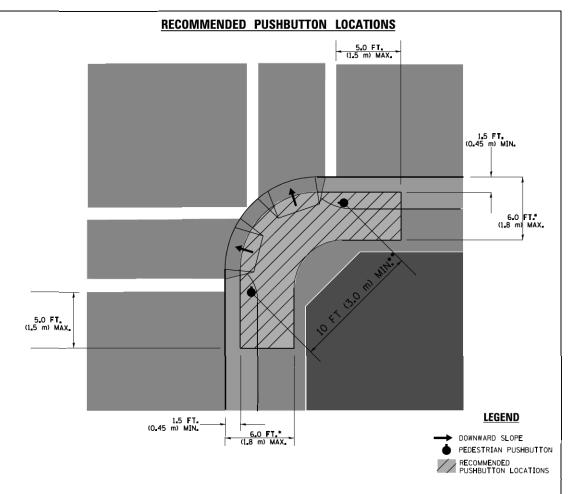
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO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

# PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



# NOTES:

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



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

# NOTES:

- 1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF
- 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.

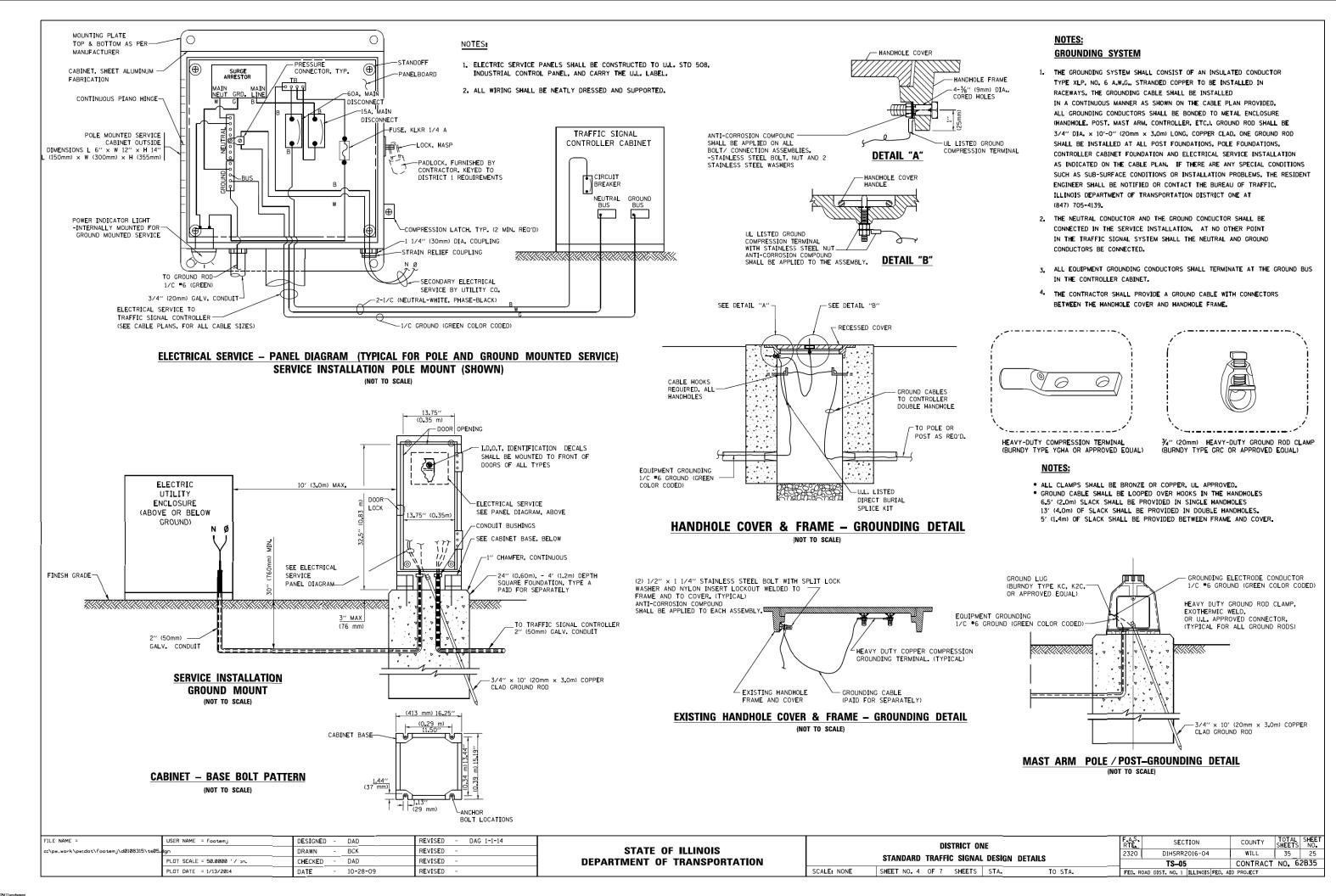
# TRAFFIC SIGNAL EQUIPMENT OFFSET

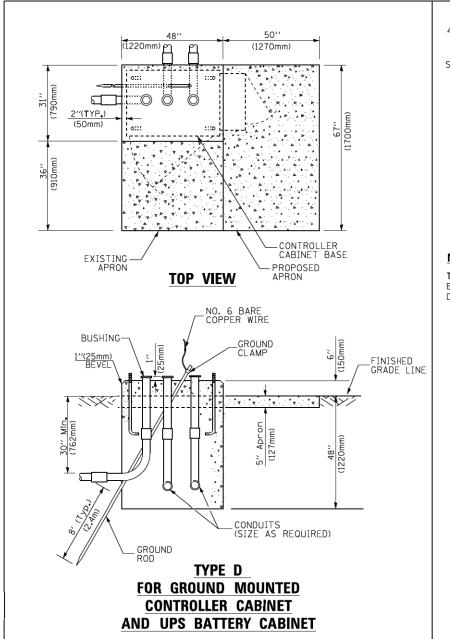
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

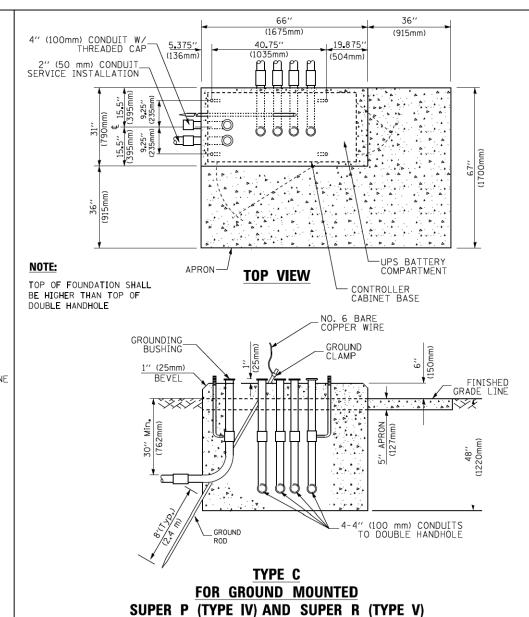
# NOTES:

- 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.

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**CONTROLLER CABINETS** 

METER

4.1

20**.**0+L 6.0+L

13.0 4.0 6.0 2.0

13.5 13.5 4.1 6.0 2.0

6.0

FOUNDATION DEPTH TYPE A - Signal Post 1'-0" (1**.**2m) TYPE C - CONTROLLER W/ UPS 4'-0" (1.2m TYPE D - CONTROLLER 4'-0" (1<u>.</u>2m) SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE 4'-0" (1<sub>•</sub>2m)

# **CABLE SLACK**

CABLE SLACK LENGTH

CONTROLLER CABINET

FIBER OPTIC AT CABINET

ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)

GROUND CABLE (BETWEEN FRAME AND COVER)

GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)

HANDHOLE DOUBLE HANDHOLE SIGNAL POST

MAST ARM

FEET

6.5

13.0

2.0

2.0

1.5 13.0

5.0

METER

0.6

0.6

0.5

4.0

0.5

0.5

1.6

VERTICAL CABLE LENGTH

PEDESTRIAN PUSH BUTTON

# **VERTICAL CABLE LENGTH**

FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)

MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)

BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)

SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP

SERVICE INSTALLATION POLE MOUNT TO GROUND

SERVICE INSTALLATION GROUND MOUNT

# **DEPTH OF FOUNDATION**

	NOTES:
1.	These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
	the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa).
	This strength shall be verified by boring data prior to construction or with testing by the Engineer
	during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
	design if other conditions are encountered

- 2. Combination mast arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
- 4. For most arm assemblies with dual arms refer to state standard 878001...

BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED

4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.

2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.

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.

**TEMPORARY SIGNAL CONTROLLER** 

WOOD SUPPORT PLATFORM

Diameter

36" (900mm)

36" (900mm)

42" (1060mm)

42" (1060mm)

30" (750mm) 24" (600mm

36" (900mm) 30" (750mm)

Diameter 24" (600mm

30" (750mm

30" (750mm

36" (900mm

① Foundation Depth

13'-6" (4<sub>4</sub>1 m)

11'-0" (3.4 m)

13'-0" (4.0 m)

15'-0" (4.6 m)

21'-0" (6.4 m)

6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

SEE NOTE 5-

TRAFFIC SIGNAL — CONTROLLER CABINET

3/4" (19mm) TREATED PHYWOOD DECK

6" x 6" (152mm x 152mm) TREATED WOOD POSTS

3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.

Mast Arm Length

Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m) and less than 50' (15.2 m) and less than 50' (15.2 m) and less than 50' (15.2 m) and up to 50' (15.2 m) and up to 55' (16.8 m)

Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)

Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)

NOTES:

2" × 6" (51mm × 152mm) WOOD FRAMING (TYP.)

Quantity of

12

12

12

7(22)

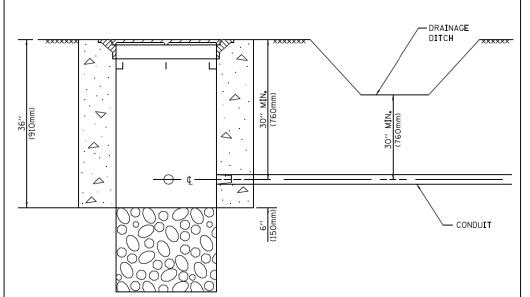
7(22)

8(25)

CABINET

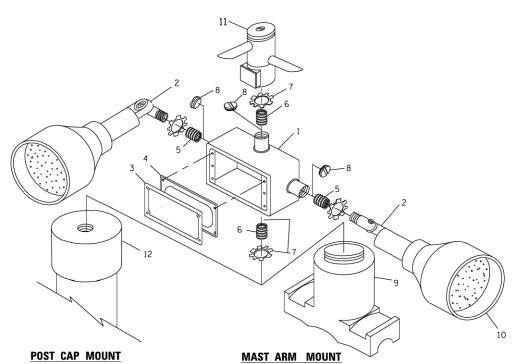
# DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14		DISTRICT ONE	F.A.S.	SECTION	COUNTY	TOTAL S	SHEET NO-
c:\pw_work\pwldot\footemj\d0108315\ts05	dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS		2320	D1HSRR2016-04	WILL	35	26
	PLOT SCALE = 50.0000 '/ in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT	NO. 62	.B35
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FFD RO	AD DIST NO 1 THE INDIS FED A	ID PROJECT		



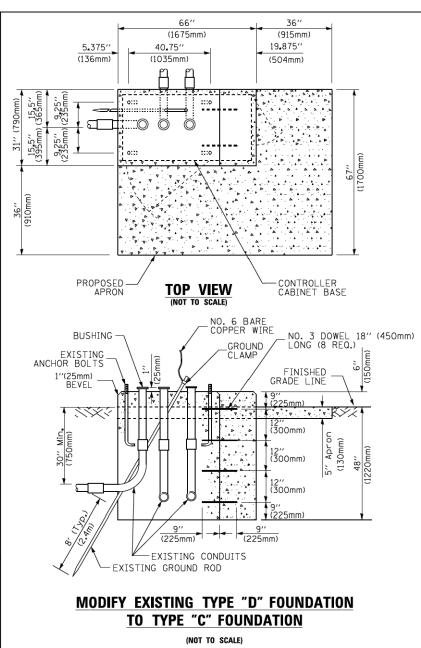
- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY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

# HANDHOLE WITH MINIMUM CONDUIT DEPTH (NOT TO SCALE)



# EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	DAD	REVISED - DAG 1-1-14	Г
c:\pw_work\pwidot\footemj\d0108315\ts05.	lgn	DRAWN -	BCK	REVISED -	
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	DAD	REVISED -	
	PLOT DATE = 1/13/2014	DA <b>TE</b> -	10-28-09	REVISED -	L



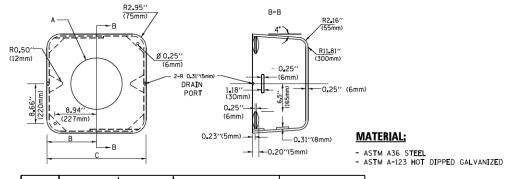
ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	¾''(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

# NOTES:

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

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

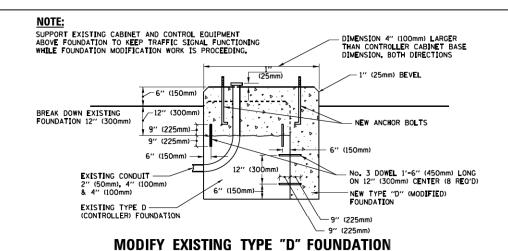


Α	В	С	HEIGHT	WEIGHT
VARIES	313 12 11111111		7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES			7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13 <sub>•</sub> 0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

# **SHROUD**

### NOTES

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

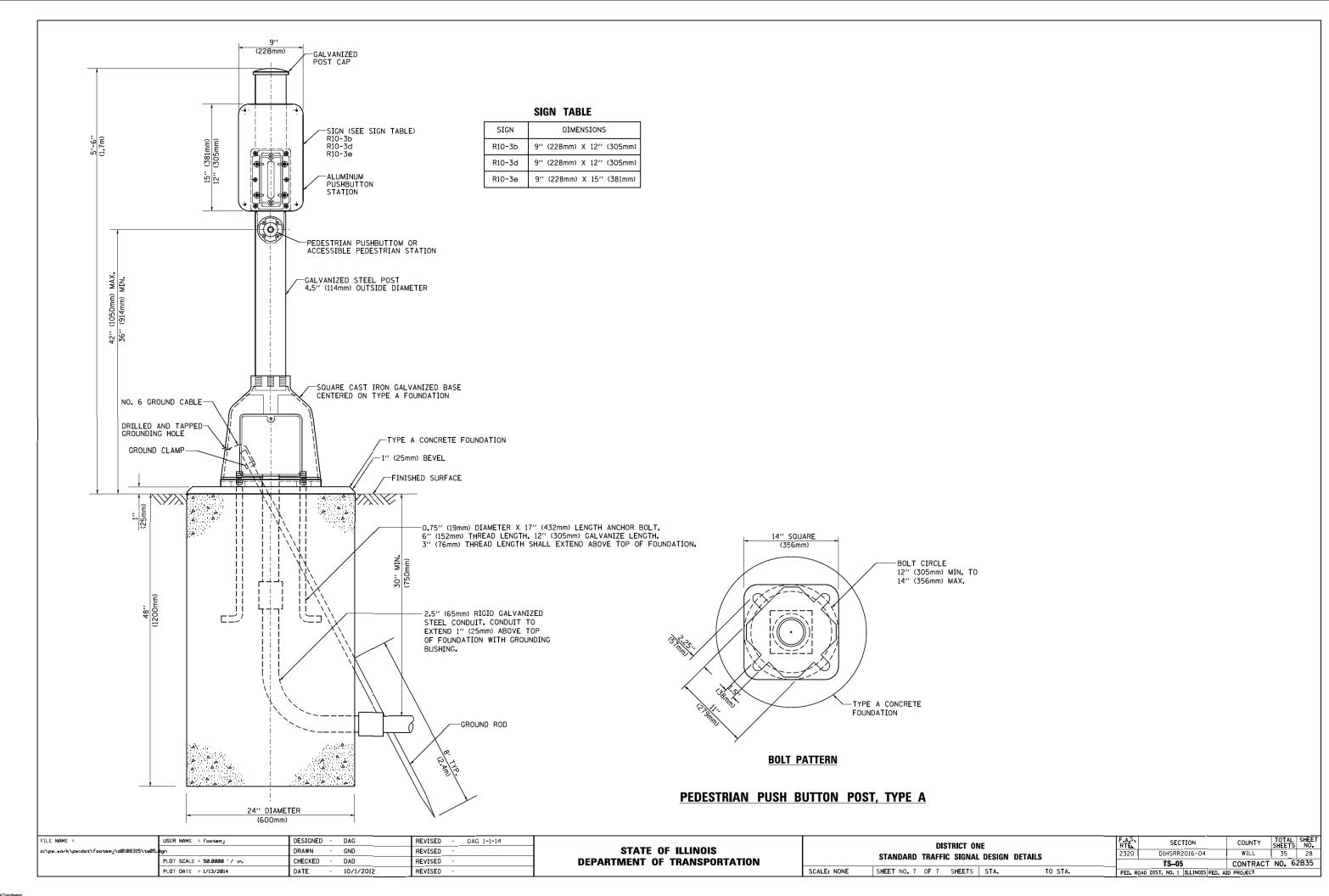


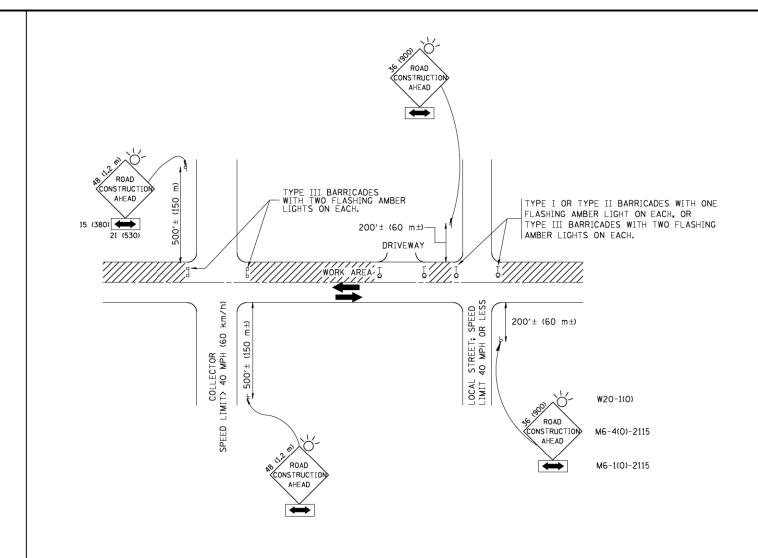
# GALVANIZED STEEL HOOKS 21 1/2" MIN. (545mm) CONDUIT TO BE REMOVED EXISTING CONDUIT TO BE REMOVED FRENCH DRAIN ELEVATION ELEVATION

# NOTES

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

# HANDHOLE TO INTERCEPT EXISTING CONDUIT





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

# NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
- d) one **road construction ahead** Sign 36 x 36 (900x900) With a flasher AND FLAG 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. 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).

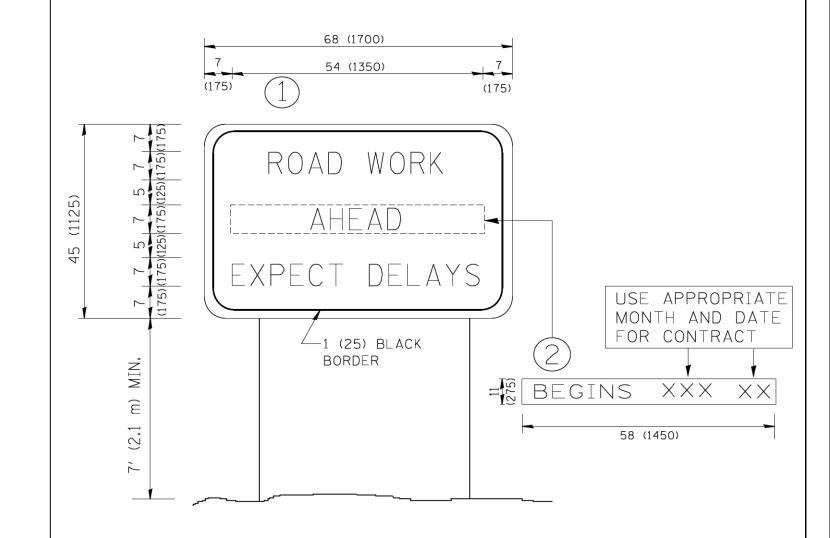
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS. AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\diststd\22x34\tc10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-0

STATI	E OI	F ILLINOIS
DEPARTMENT	<b>OF</b>	TRANSPORTATION

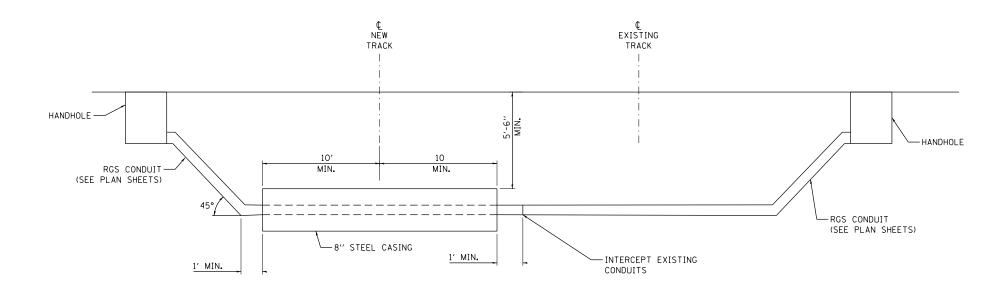
	TRAFFIC CONTROL AND I	ROTECTION	FOR	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SIDE ROADS, INTERSECTIONS	AND DE	JEWAVE	2320	D1HSRR2016-04	WILL	35	29
	SIDE RUADS, INTERSECTIONS	, AND DRIV	EWAIS		TC-10	CONTRACT	NO. 6	2B35
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. 1   ILLINOIS FED. A	D PROJECT		



- 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 = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD	F.A.S. SECTION	COUNTY TOTAL SHEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION CICH	2320 D1HSRR2016-04	WILL 35 30
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN	TC-22	CONTRACT NO. 62B35
	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 TILLINGIS	FED. AID PROJECT



- 1. ALL HORIZONTAL DISTANCES TO BE MEASURED AT RIGHT ANGLES FROM THE CENTERLINE OF TRACK.
- 2. A RAILROAD SIGNAL REPRESENTATIVE MUST BE PRESENT DURING INSTALLATION IF RAILROAD SIGNALS ARE IN THE VICINITY OF THE CROSSING.

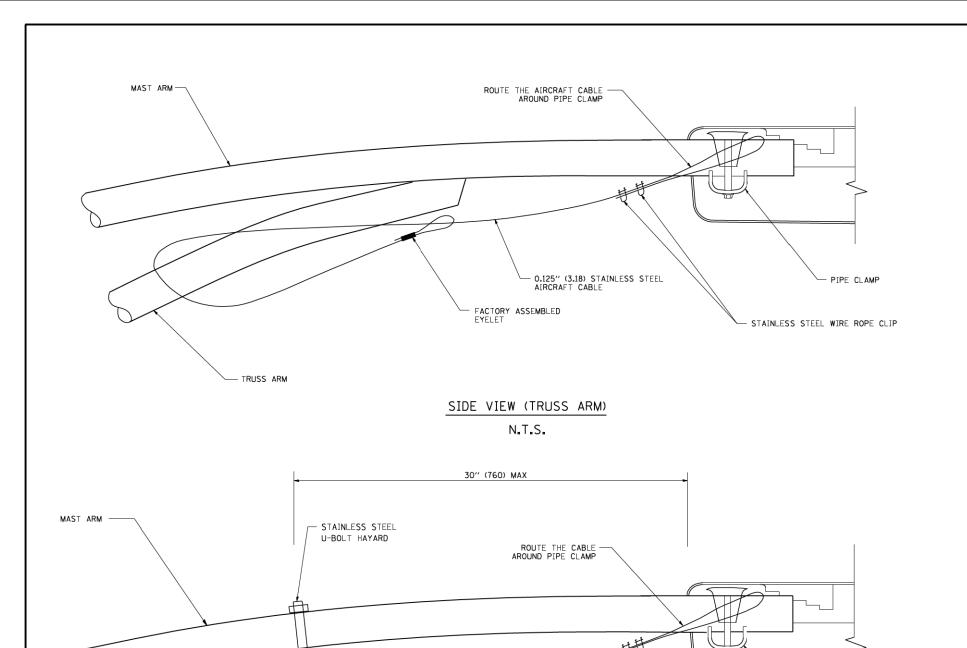
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NAME		
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FILE		F
I	D162B35-sht-details10.dgn 10/23/2015 2:42:07 PM	Τ

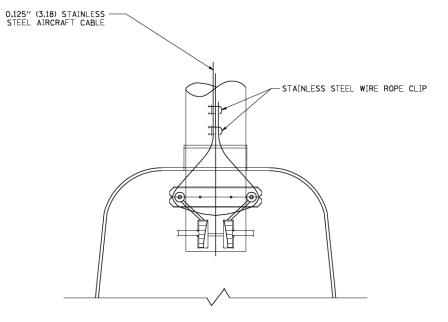
	USER NAME = Andy_Becker	DESIGNED	REVISED -
Г		DRAWN	REVISED -
Г	PLOT SCALE = 40.0000 ft / in.	CHECKED	REVISED -
_	PLOT DATE = 10/23/2015	DATE	REVISED -

STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

SCALE:

					OVO DETAIL	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONDUIT UNDER RAILROAD TRACKS DETAIL					2320	D1HSRR2016-04	WILL	35	31	
								CONTRACT	NO. 6	2B35
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	ID PROJECT		





BOTTOM VIEW N.T.S.

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

# SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)

O.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE

FACTORY ASSEMBLED

MAST ARM

-S.S. NUT & LOCK WASHER

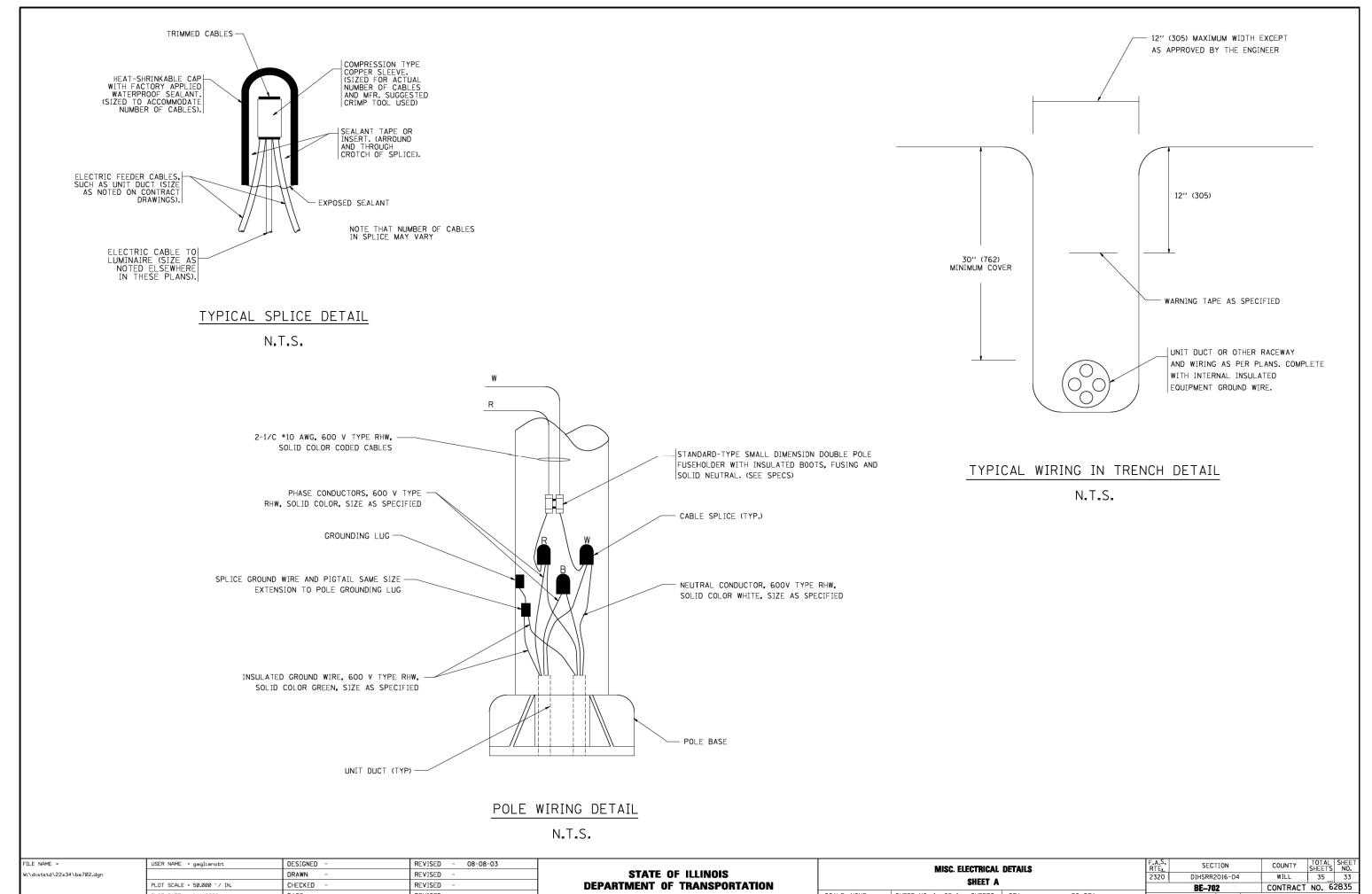
STAINLESS STEEL U-BOLT HAYARD EYELET

N.T.S.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03			LUMINAIRE SAFETY CABLE ASSEMBLY	F	F.A.S.	SECTION	COUNTY	TOTAL	SHEET
W:\diststd\22x34\be701.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		LUMINAINE SAFETT CABLE ASSEMBLY		2320	D1HSRR2016-04	WILL	35	32
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					BE-701	CONTRACT	NO. F	2B35
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	·A.	EED BOAD I		ATD PROJECT		

- STAINLESS STEEL WIRE ROPE CLIP

- PIPE CLAMP

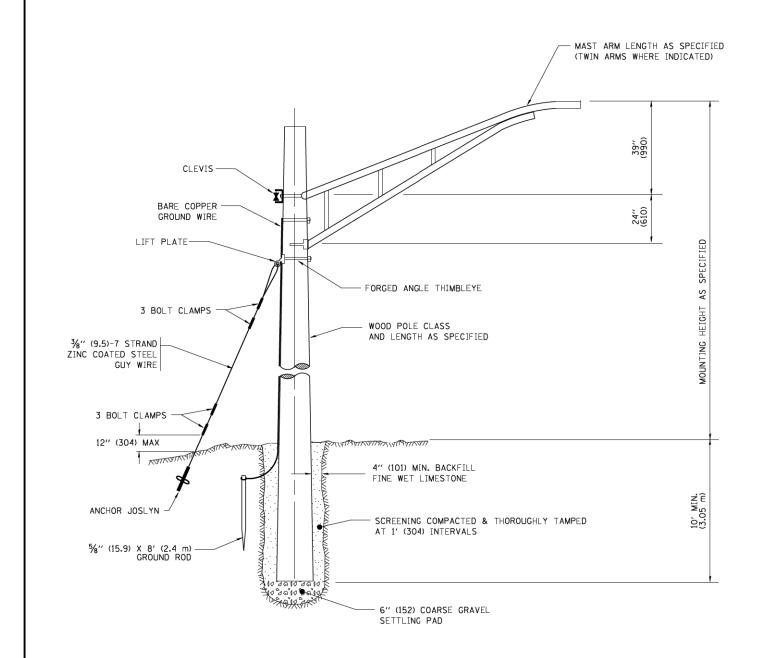


D1HSRR2016-04

BE-702
FED. ROAD DIST. NO. 1 ILLINOIS

TO STA.

MISC. ELECTRICAL DETAILS STATE OF ILLINOIS W:\diststd\22x34\be702.dgn DRAWN REVISED SHEET A PLOT SCALE = 50.000 '/ IN. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. PLOT DATE = 1/4/2008 DATE REVISED



# TEMPORARY LIGHT POLE DETAIL

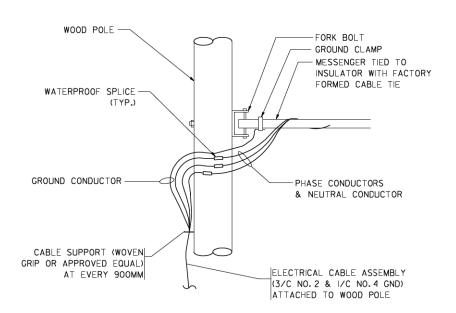
# MESSENGER TIED TO INSULATOR WITH FACTORY FORMED CABLE TIE AWG BARE COPPER GROUND CLAMP AWG BARE COPPER GROUND WIRE WATERPROOF INSULATION PIERCING TAP CONNECTOR WATERPROOF FUSEHOLDER & FUSE WATERPROOF FUSEHOLDER AND SOLID NEUTRAL SLUG

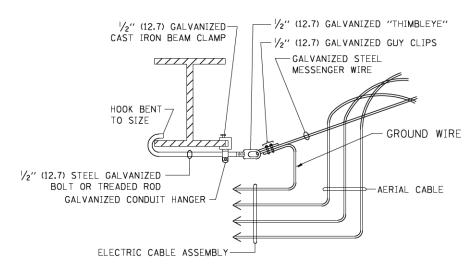
# TEMPORARY LIGHT POLE ATTACHMENT DETAIL

# NOTES

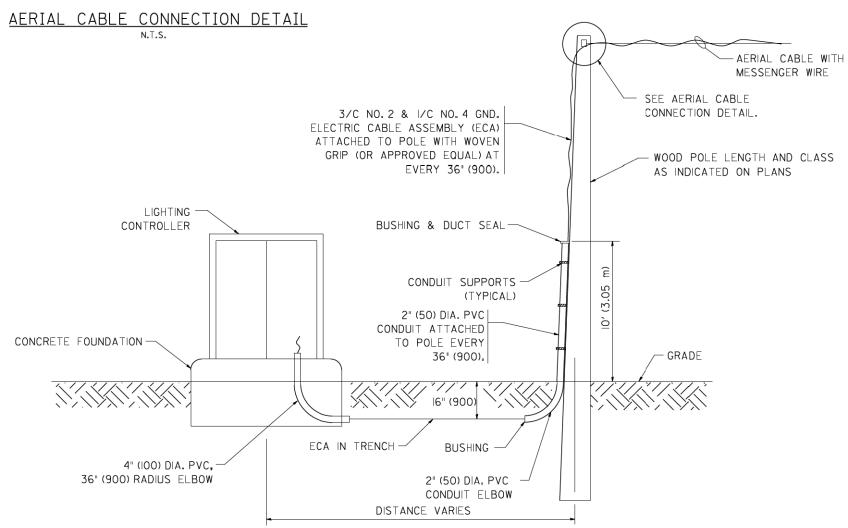
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

ſ	FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03			TEMPORARY LIGHT POLE DETAILS	F.A	SECTION	COUNTY	TOTAL SHEET
	W:\diststd\22x34\be800.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		IEMPURARY LIGHT PULE DETAILS	232	20 D1HSRR2016-04	WILL	35 34
		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				BE-800	CONTRACT	T NO. 62B35
		PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FFC		AID PROJECT	





# AERIAL CABLE ATTACHED TO STRUCTURE NOT TO SCALE



# NOTES:

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

# WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

N.T.S.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - 08-08-03
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	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS						
DEPARTMENT	0F	TRANSPORTATION				

SCALE:

TEMPORARY AERIAL CABLE INSTALLATION				F.A.S.	SECTION	COUNTY	SHEETS	NO.	
				2320	D1HSRR2016-04	WILL	35 _	35	
						BE-801	CONTRACT	NO. 6	2B35
NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				