03-08-2024 LETTING ITEM 146

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

PROPOSED PERU ST / MAIN ST IMPROVEMENTS CITY OF PRINCETON

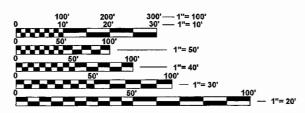
SECTION 22-00078-00-TL PROJECT 91ZW(501) BUREAU COUNTY JOB NO. C-93-021-24

INDEX OF SHEETS

COVER SHEET

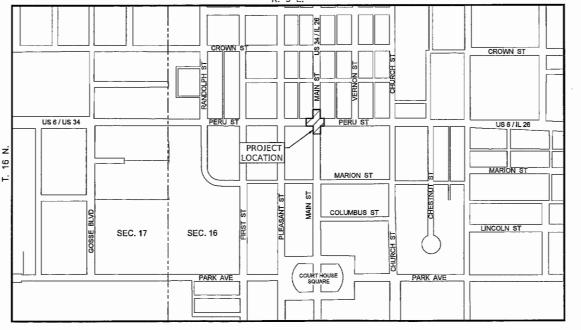
0

- GENERAL NOTES COMMITMENTS & HIGHWAY STANDARDS
- SUMMARY OF QUANTITIES
- ROADWAY REMOVAL PLAN SHEET ROADWAY PLAN SHEETS
- PERU ST / MAIN ST ADA RAMP DETAILS
- 10-17 TRAFFIC SIGNAL PLANS
- TRAFFIC SIGNAL BORING LOG
- 19-20 DETAILS



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 OR 811



N.T.S.

GROSS LENGTH = 755.7 FT (0.14 MI) NET LENGTH = 755.7 FT (0.14 MI)



FUNCTIONAL CLASS	MAIN ST MINOR	PERU ST MINOR
	ARTERIAL	ARTERIAL
ADT (2021)	9,000	7,500
PV	96.3%	95.2%
SU	3.1%	4.0%
MU	0.6%	0.8%

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** LOCAL PUBLIC AGENCY December 29 20_23_ PASSED Many DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS RELEASING FOR BID BASED ON LIMITED mul Almod SC **REGION 2 ENGINEER**

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 87811

PERIL MORRIS



DESIGNED -REVISED REVISED CHECKED - DJD DATE - 11/2022 PLOT DATE = SDATE\$ REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

COVER SHEET SHEET 1 OF 1 SHEETS STA.

12/28/2023

LICENSED

Daniel O Drage

COUNTY SHEETS NO. BUREAU 20 CONTRACT NO. 87811

GENERAL NOTES

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MATERIAL (TACK COAT)	0.05	LB / SQ FT
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (\$15-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE, THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES,
CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE
SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT,
THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE
FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE
PERMANENT REPAIRS, SPLICING OF ELECTRIC CABLE WILL NOT BE
ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE
OR CONTROLLER

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

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

CITY OF PRINCETON NICOR GAS COMCAST FRONTIER WINDSTREAM KDL/MCLEOD MTCO COMMUNICATIONS

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

COMMITMENTS

NONE,

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-09	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-11	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

HMA MIXTURE REQUIREMENT TABLE						
LOCATIONS	ENTIRE PROJECT					
MIXTURE USE(S):	HMA					
	SURFACE					
BINDER GRADE (PG)	SBS PG70-28					
DESIGN AIR VOIDS:	4.0% @ N70					
MIXTURE COMPOSITION:	IL 9.5					
(MIXTURE GRADATION)						
FRICTION AGGREGATE	MIXTURE D					
MIXTURE WEIGHT	112.0 LB/SY/IN					
QUALITY MANAGEMENT PROGRAM:	QCQA					
SUBLOT SIZE:	N/A					
DENSITY TEST METHOD:	CORES/NUCLEAR					
MATERIAL TRANSFER DEVICE (REQUIRED)	NO					

87811 - INTERSECTION OF US 6 AND IL 26 IN PRINCETON

SCALE:

PERU MORRIS OTTAWA MENDOTA ILLINOIS

USER NAME = \$USER\$	DESIGNED - DJD	REVISED -
	DRAWN KED	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - DJD	REVISED -
PLOT DATE = \$DATE\$	DATE - 11/2022	REVISED =

GENERAL NOTES COMMITMENTS AND	F.A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
HIGHWAY STANDARDS		22-00078-00-TL	BUREAU	20	2
			CONTRACT	NO. 87	811
SHEET 1 OF 1 SHEETS STA. TO STA.	LILLINGIS SED AID BROJECT				

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	40
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	711
	40600370	LONGITUDINAL JOINT SEALANT	FOOT	1275
	40600990	TEMPORARY RAMP	SQ YD	159
	40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	236
	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	2044
	42400800	DETECTABLE WARNINGS	SQ FT	80
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	2105
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	200
	44000600	SIDEWALK REMOVAL	SQ FT	1998
	60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	200
*	66900200	NON SPECIAL WASTE DISPOSAL	CU YD	95
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	4
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	4
	67100100	MOBILIZATION	L SUM	1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	24
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	810
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	267
	72000100	SIGN PANEL - TYPE 1	SQ FT	144
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	552
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	488
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	277
*	78003101	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LETTERS AND SYMBOLS	SQ FT	125
*	78003181	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - STANDARD - LINE 24"	гоот	78
*	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	125
*	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	552
*	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	488
*	78011045	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	277
*	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	78
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	18
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18
*	80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
*	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	172
*	81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	165
*	81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	104

SUMMARY OF QUANTITIES

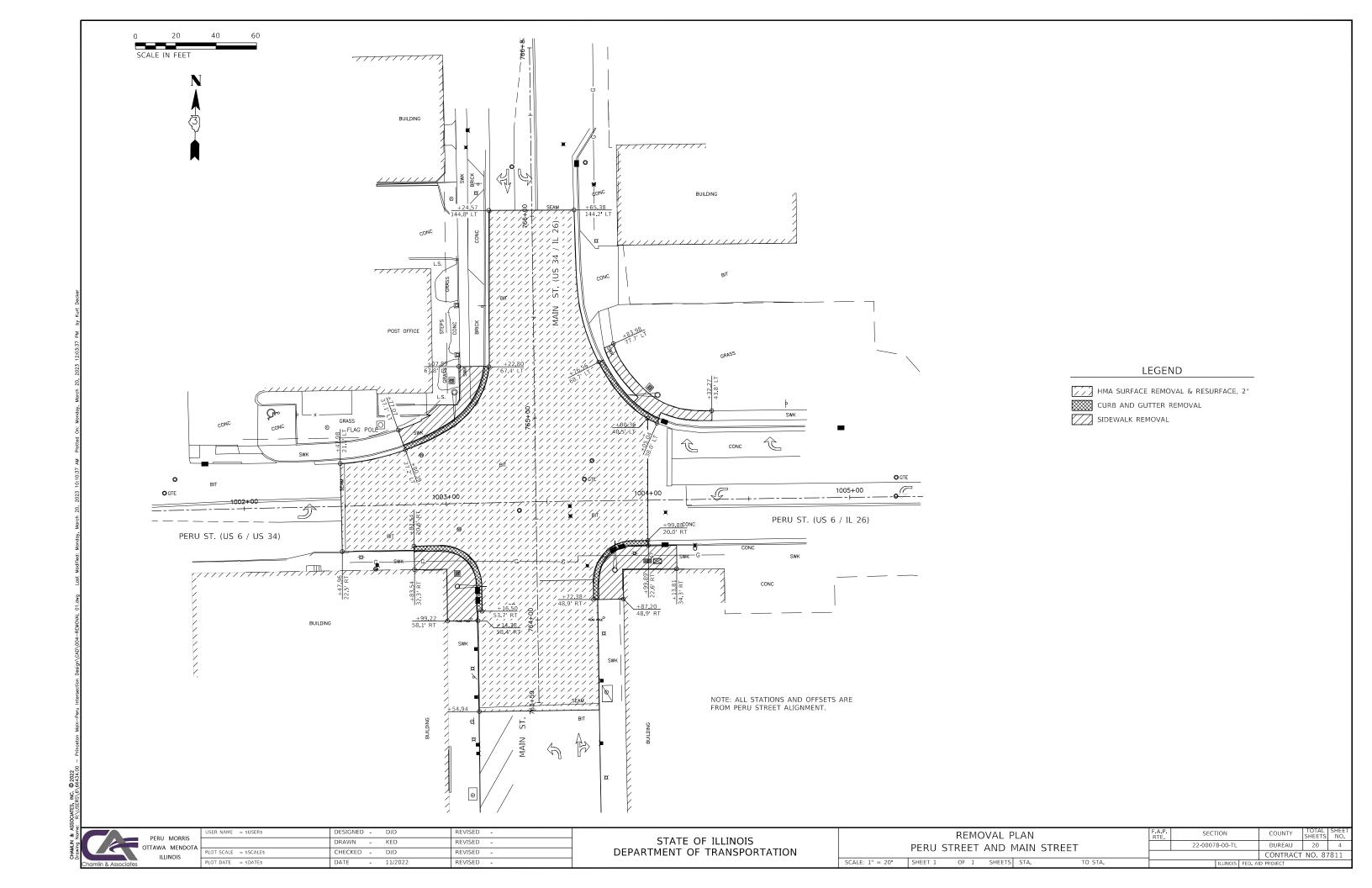
COD	DE NO.	ITEM	UNIT	TOTAL QUANTITY
8140	00700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
8140	00720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
8620	00300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
8730	01215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1190
8730	01225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1190
8730	01245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1154
8730	01255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1320
8730	01805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	153
8730	01900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	495
8750	00600	TRAFFIC SIGNAL POST, 10 FT.	EACH	4
8750	01100	TRAFFIC SIGNAL POST, 15 FT.	EACH	4
8770	00210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
8770	00250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
8770	00300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	2
8780	00100	CONCRETE FOUNDATION, TYPE A	FOOT	24
8780	00150	CONCRETE FOUNDATION, TYPE C	FOOT	3
8780	00415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
8804	40070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
8804	40090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
8804	40150	SIGNAL HEAD, POLYCARBONATE, LED, 1 FACE, 5 SECTION, BRACKET MOUNTED	EACH	4
8804	40160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	5
8810	02825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
8900	00100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
8950	02300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5440
8950	02375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
8950	02380	REMOVE EXISTING HANDHOLE	EACH	3
8950	02382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
8950	02385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
X032	25839	SIGNAL TIMING	L SUM	1
X032	22765	RELOCATE VIDEO VEHICLE DETECTION SYSTEM	EACH	1
X602	26624	VALVE BOXES TO BE ADJUSTED (SPECIAL)	EACH	3
X603	30310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5
X140	00318	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	EACH	17
X70:	10216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
X85	70226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
X876	60200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
Z007	73510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SPECI	CIALTY IT	ЕМ	1	1
		F.A.P.	SEC	TION

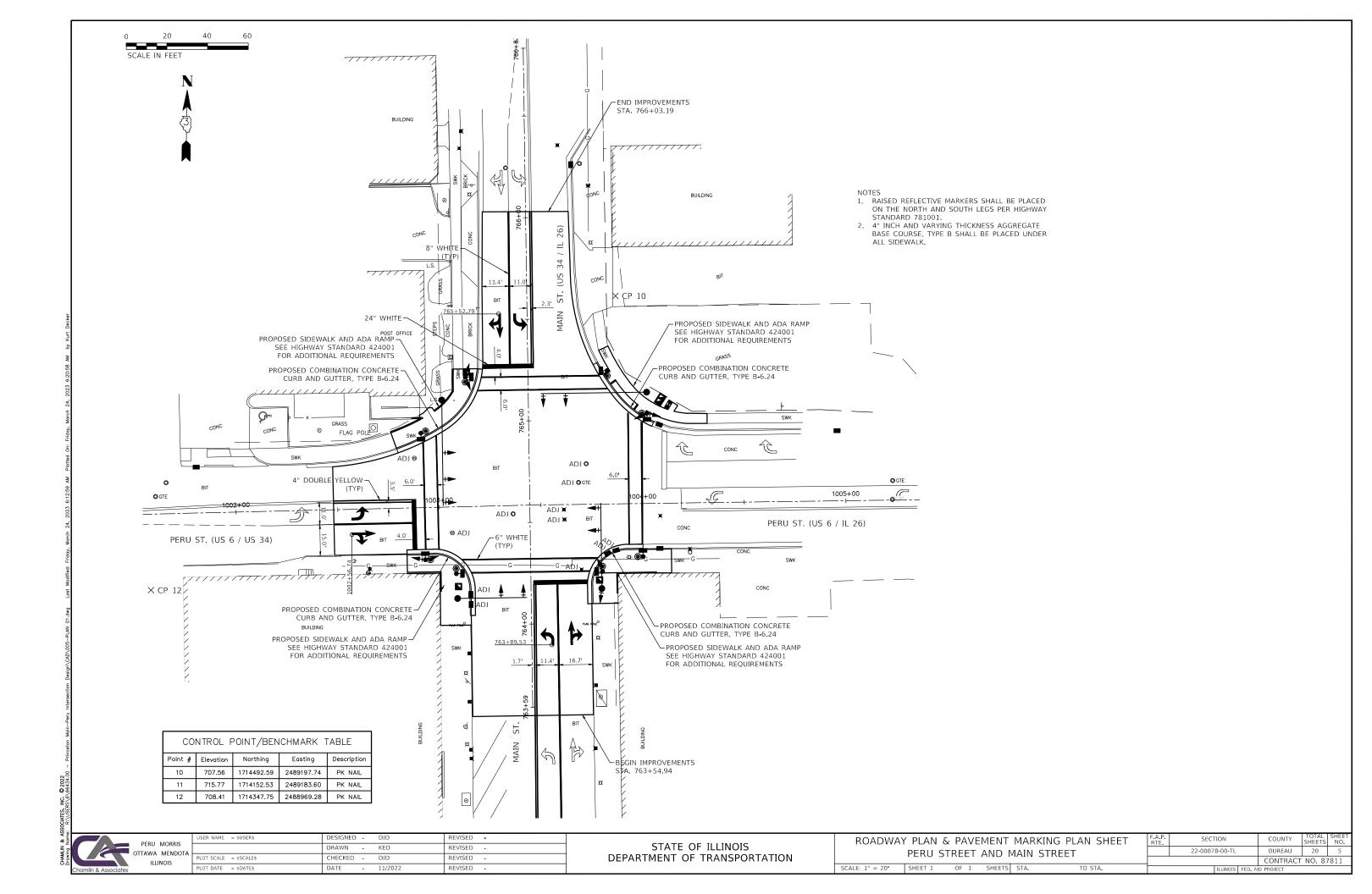


REVISED -REVISED REVISED REVISED -DRAWN - KED
CHECKED - DJD
DATE - 11/2022

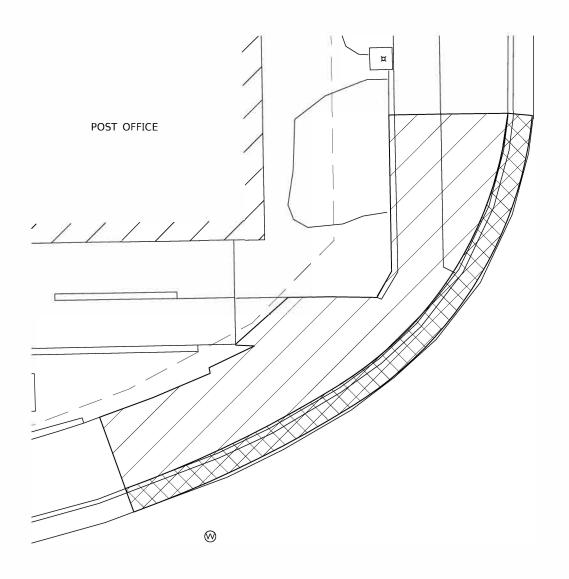
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

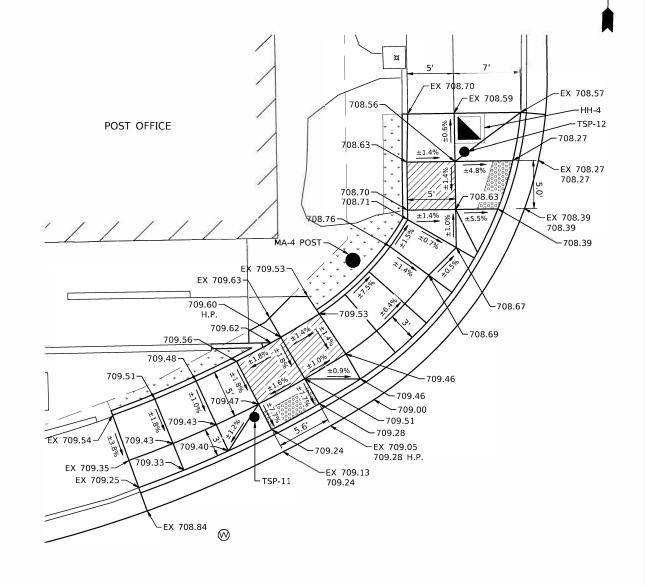
						RTE.	SECTION	COUNTY	SHEETS	NO.
SUMMARY OF QUANTITIES					22-00078-00-TL	BUREAU	20	3		
								CONTRACT	NO. 87	7811
	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT			





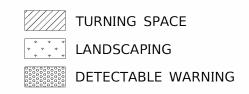






ADA CONSTRUCTION NOTES

- 1. SEE HIGHWAY STANDARDS 424001 FOR MAX SLOPES AND ADDITIONAL REQUIREMENTS.
- 2. SEE HIGHWAY STANDARD 606001 FOR CURB AND GUTTER REQUIREMENTS ADJACENT TO ADA RAMPS.
- 3. ALL CROSS SLOPES IN THE DIRECTION OF TRAVEL ARE AN ABSOLUTE MAXIMUM OF 2%. LAYOUT SHOULD BE AT 1.5% TO ALLOW FOR ERROR WHILE REMAINING WITHIN THE MAXIMUM SLOPE.
- 4. SIDEWALK CURBS ARE SHOWN ONLY AS REQUIRED BY FIELD CONDITIONS AND MAY BE OMITTED IF FOUND TO BE UNNECESSARY.





BUREAU 20

CONTRACT NO. 87811



DESIGNED - DJD DRAWN KED REVISED -CHECKED - DJD REVISED -PLOT DATE = \$DATE\$ REVISED

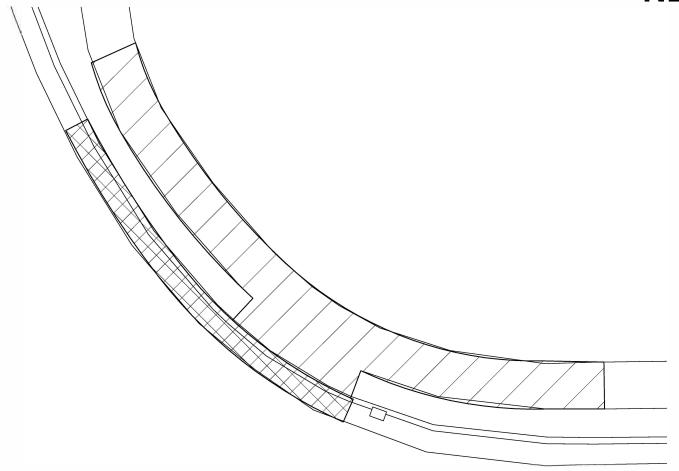
SIDEWALK REMOVAL

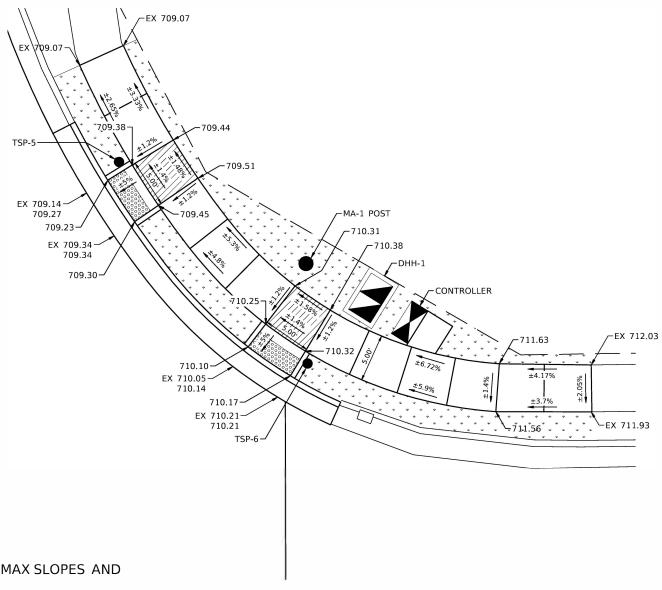
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION PERU ST ADA DETAILS 22-00078-00-TL SCALE: 1" = 5' SHEET 1 OF 4 SHEETS STA.

CC&G REMOVAL

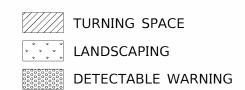






ADA CONSTRUCTION NOTES

- 1. SEE HIGHWAY STANDARDS 424001 FOR MAX SLOPES AND ADDITIONAL REQUIREMENTS.
- 2. SEE HIGHWAY STANDARD 606001 FOR CURB AND GUTTER REQUIREMENTS ADJACENT TO ADA RAMPS.
- 3. ALL CROSS SLOPES IN THE DIRECTION OF TRAVEL ARE AN ABSOLUTE MAXIMUM OF 2%. LAYOUT SHOULD BE AT 1.5% TO ALLOW FOR ERROR WHILE REMAINING WITHIN THE MAXIMUM SLOPE.
- 4. SIDEWALK CURBS ARE SHOWN ONLY AS REQUIRED BY FIELD CONDITIONS AND MAY BE OMITTED IF FOUND TO BE UNNECESSARY.







	USER NAME = \$USER\$	DESIGNED	-	שט	REVISED	*:
OOTA		DRAWN	75	K Đ	REVISED	23
DOIA	PLOT SCALE = \$SCALE\$	CHECKED		DJD	REVISED	\$4
- 1	PLOT DATE = \$DATE\$	DATE	(÷)	11/2022	REVISED	÷(

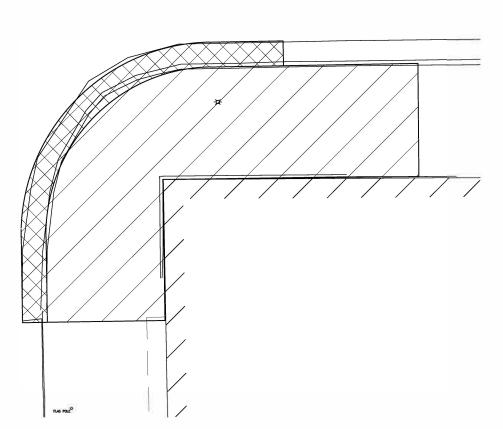
SIDEWALK REMOVAL

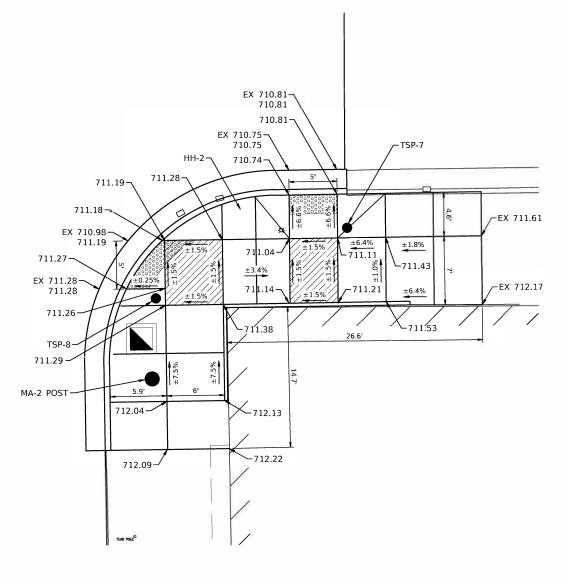
CC&G REMOVAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						RTE.	SECTION		COUNTY	SHEETS	NO.	
	PERU ST ADA DETAILS					22-00078-00	-TL	BUREAU	20	7.		
										CONTRAC	NO. 87	7811
	SCALE: 1" = 5'	SHEET 2	OF 4	SHEETS	STA.	TO STA.		ILLIN	OIS FED. A	ID PROJECT		

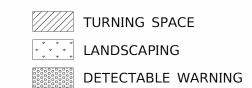
SE QUAD





ADA CONSTRUCTION NOTES

- 1. SEE HIGHWAY STANDARDS 424001 FOR MAX SLOPES AND ADDITIONAL REQUIREMENTS.
- 2. SEE HIGHWAY STANDARD 606001 FOR CURB AND GUTTER REQUIREMENTS ADJACENT TO ADA RAMPS.
- 3. ALL CROSS SLOPES IN THE DIRECTION OF TRAVEL ARE AN ABSOLUTE MAXIMUM OF 2%. LAYOUT SHOULD BE AT 1.5% TO ALLOW FOR ERROR WHILE REMAINING WITHIN THE MAXIMUM SLOPE.
- 4. SIDEWALK CURBS ARE SHOWN ONLY AS REQUIRED BY FIELD CONDITIONS AND MAY BE OMITTED IF FOUND TO BE UNNECESSARY.







- 21	USER NAME = \$USER\$	DESIGNED		DJD	REVISED	*:
Α		DRAWN	75	KED	REVISED	2)
^	PLOT SCALE = \$SCALE\$	CHECKED		DJD	REVISED	\$
- 5	PLOT DATE = \$DATE\$	DATE	4	12/2022	REVISED	€(

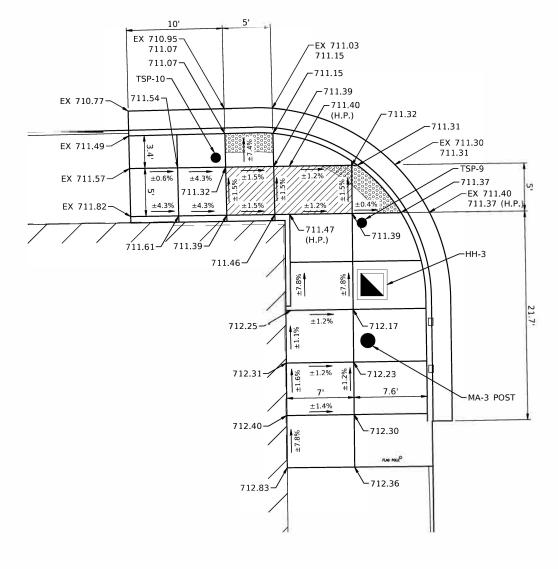
SIDEWALK REMOVAL

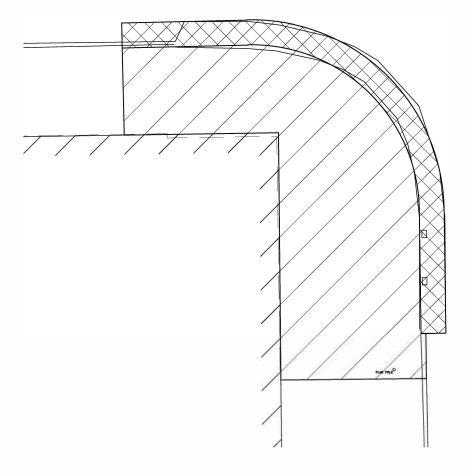
CC&G REMOVAL

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEDIT CT ADA DETAILC	F.A.P. RTE.	SECTION	COUNTY
PERU ST ADA DETAILS		22-00078-00-TL	BUREAU
			CONTRA
SCALE: 1" = 5' SHEET 3 OF 4 SHEETS STA. TO STA.		ILLINOIS FED	AID PROJECT

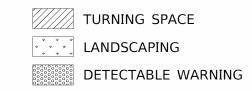






ADA CONSTRUCTION NOTES

- 1. SEE HIGHWAY STANDARDS 424001 FOR MAX SLOPES AND ADDITIONAL REQUIREMENTS.
- 2. SEE HIGHWAY STANDARD 606001 FOR CURB AND GUTTER REQUIREMENTS ADJACENT TO ADA RAMPS.
- 3. ALL CROSS SLOPES IN THE DIRECTION OF TRAVEL ARE AN ABSOLUTE MAXIMUM OF 2%. LAYOUT SHOULD BE AT 1.5% TO ALLOW FOR ERROR WHILE REMAINING WITHIN THE MAXIMUM SLOPE.
- 4. SIDEWALK CURBS ARE SHOWN ONLY AS REQUIRED BY FIELD CONDITIONS AND MAY BE OMITTED IF FOUND TO BE UNNECESSARY.



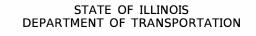




]	USER NAME = \$USER\$	DESIGNED	-	DJD	REVISED	*:
OOTA		DRAWN	75	KED	REVISED	21
JUIA	PLOT SCALE = \$SCALE\$	CHECKED		DJD	REVISED	\$c
	PLOT DATE = \$DATE\$	DATE	3 9 3	12/2022	REVISED	€(

SIDEWALK REMOVAL

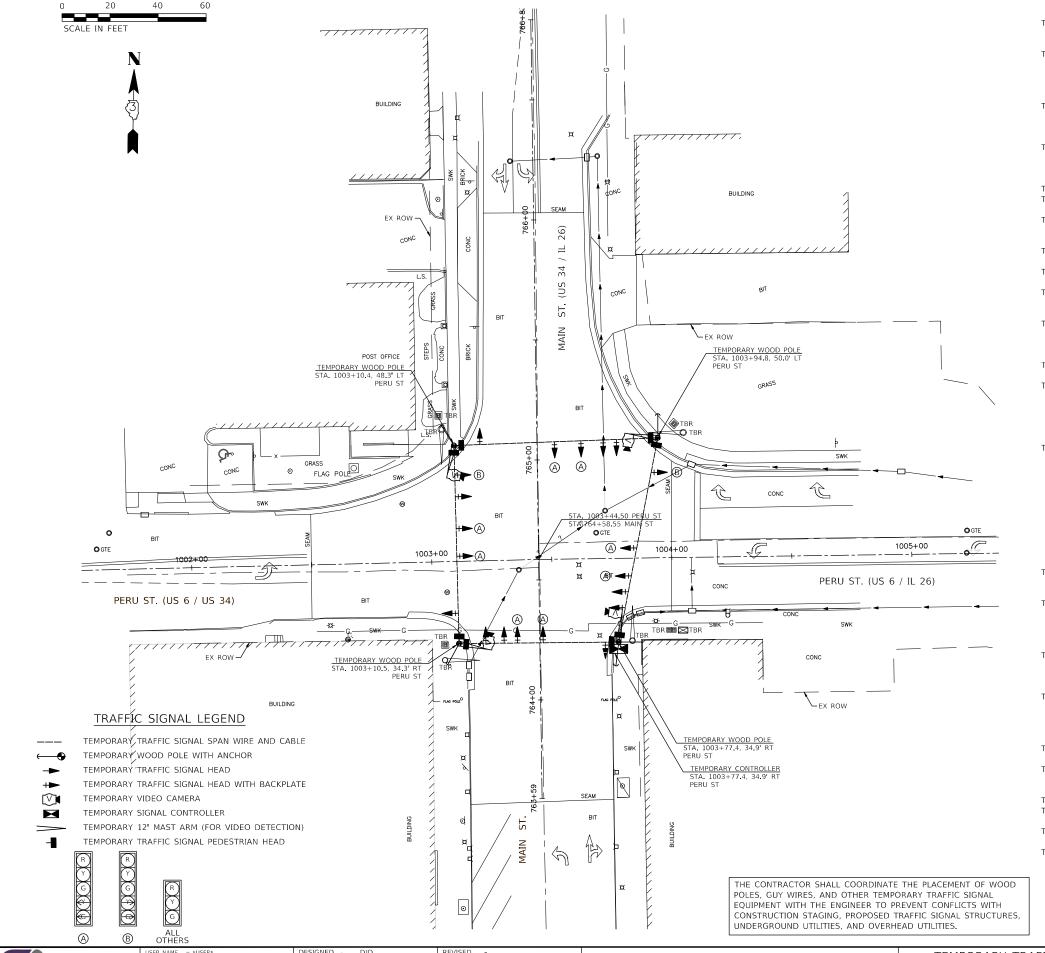
CC&G REMOVAL



DEDIT CT ADA DETAILS							SEC	TION		COUNTY	SHEETS	
PERU ST ADA DETAILS					22-0007	'8-00-TL		BUREAU	20	9		
										CONTRACT	NO. 87	7811
SCALE: 1" = 5'	SHEET 4	OF 4	SHEETS	STA.	TO STA.	ILLINOIS FEE		FED. AI	D PROJECT			

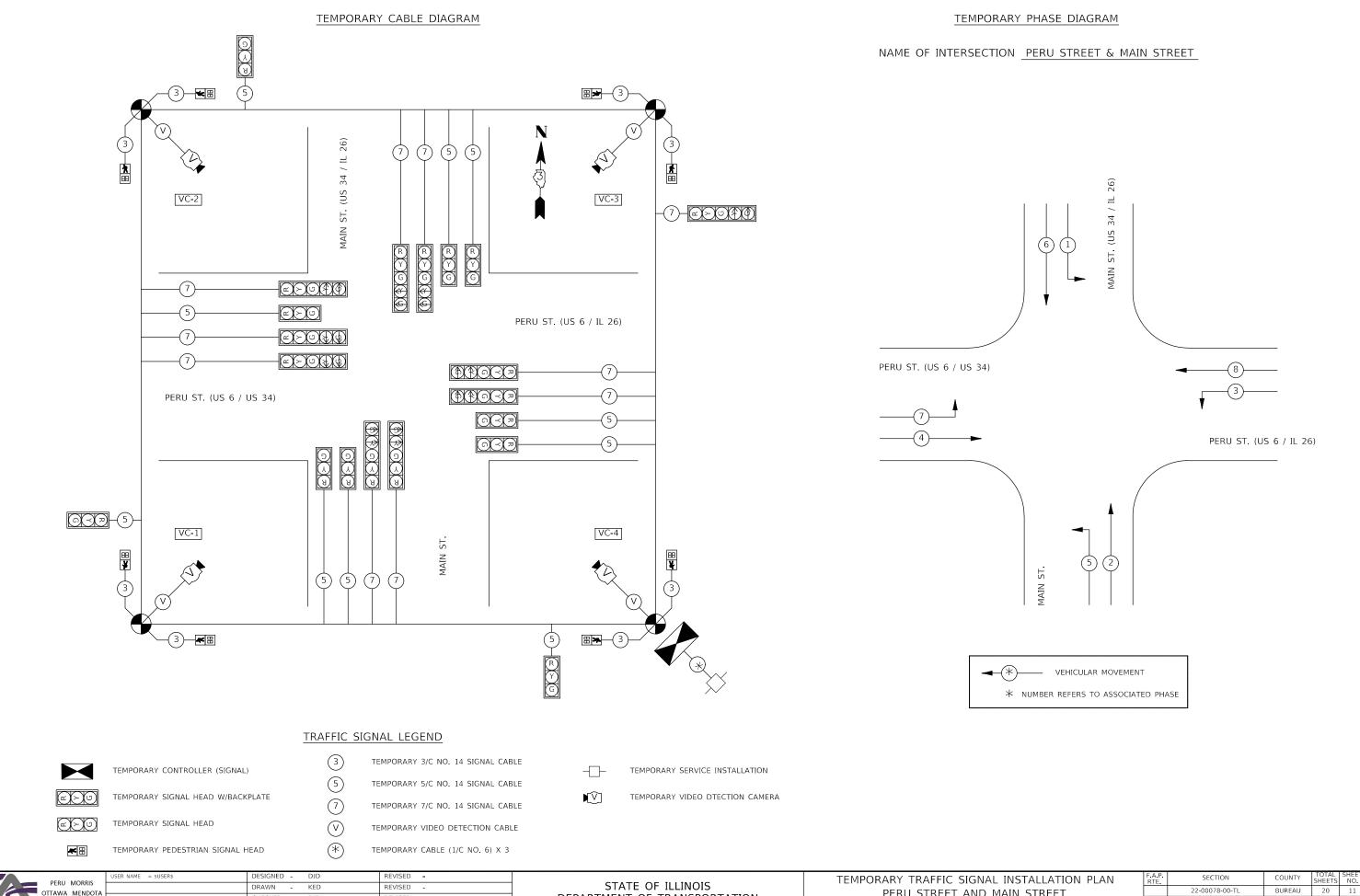
\009-ADA DTLS 04.dwg Last Modified: Monday, March 20, 2023 11

CIATES, INC. @ 2022 R:\USERS\6\66434.00 - Princeton



NOTES FOR TEMPORARY TRAFFIC SIGNAL

- T1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- T2. ALL TRAFFIC SIGNAL EQUIPMENT SCHEDULED FOR REMOVAL CAN BE USED FOR TEMPORARY TRAFFIC SIGNALS. ANY MAINTENANCE OF THIS EQUIPMENT WHEN USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL EQUIPMENT SHALL BE DELIVERED IN GOOD WORKING CONDITION UPON REMOVAL OF TEMPORARY TRAFFIC SIGNAL INSTALLATION TO THE CITY OF PRINCETON.
- T3. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 3 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
- T4. THE PROPOSED VIDEO DETECTION SYSTEM SHALL BE USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL TRANSFER ALL VIDEO DETECTION COMPONENTS TO THE PROPOSED SIGNAL INSTALLATION AND SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF THE EQUIPMENT.
- T5. ALL TRAFFIC SIGNALS AND PEDESTRIAN SECTIONS SHALL HAVE 12 INCH LENSES.
- TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE PLANS OR DIRECTED BY THE ENGINEER.
- T7. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- T8. THE SPAN WIRE MOUNTED TEMPORARY SIGNAL HEADS SHALL MAINTAIN AN UNIFORM 18 FOOT CLEARANCE OVER THE ROADWAY.
- ALL SIGNAL HEADS ON AN INDIVIDUAL SPAN WIRE SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
- T10. TEMPORARY WOOD POLES SHALL BE LOCATED A MINIMUM OF 6 FEET FROM THE FACE OF CURB OR A MINIMUM 18 FEET FROM THE EDGE OF PAVEMENT WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER
- T11. ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30 FOOT OF POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACK GUYED TO ALLOW INSTALLATION TO WITHSTAND A 70 M.P.H. SUSTAINED WIND LOADING.
- T12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE REQUIRED.
- T13. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 3, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- T14. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12 INCH DIAMETER, HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE FOR STAGING AND AS DIRECTED BY THE ENGINEER. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD. THIS WORK, INCLUDING ALL SIGNAL HEAD RELOCATIONS AS DIRECTED BY THE ENGINEER, SHALL BE INCLUDED IN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
- T15. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR NOT BE STAGED ON THE DAY OF THE TURN ON.
- T16. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL. TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
- T17. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
- T18. A FOUR CAMERA VEHICLE VIDEO DETECTION SYSTEM SHALL BE USED TO PROVIDE DETECTION FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL FURNISH A FOUR CAMERA VIDEO DETECTION SYSTEM (CAMERAS WITH BRACKETS AND PROCESSOR) FOR USE WITH THE TEMPORARY INSTALLATION. THE CONTRACTOR SHALL FURNISH ALL CABLE, HARDWARE, BRACKETS, AND ACCESSORIES REQUIRED FOR A COMPLETELY FUNCTIONAL SYSTEM.
- T19. AERIAL TRAFFIC SIGNAL CABLE SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE PLAN
- T20. THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO RELOCATE THE TEMPORARY TRAFFIC SIGNAL HEADS IN ACCORDANCE WITH THE PROPOSED CONSTRUCTION STAGING.
- T21. THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS.
- T22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING THE VIDEO DETECTION SYSTEM TO ACCOMMODATE CONSTRUCTION STAGING (INCLUDING CAMERA AIMING AND PROGRAMMING).
- T23. ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- T24. TEMPORARY SIGNAL HEADS SHALL BE RELOCATED AS NECESSARY TO LINE UP WITH STAGE TRAFFIC LANES. DO NOT INSTALL HEADS THAT BLOCK OPPOSING TRAFFIC HEADS. WHEN POSSIBLE PLACE TEMPORARY SIGNALS IN FRONT OF EXISTING TRAFFIC SIGNALS. THIS WORK WILL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGN INSTALLATION.





TRAFFIC SIGNAL QUANTITIES

			TOTAL
CODE NO.	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	144
80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	172
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	165
81028370	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	104
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
81400700	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	LACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1190
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1190
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1154
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1320
87301233	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	153
87301900	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	495
87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	493
87501100	TRAFFIC SIGNAL POST, 10 FT.	EACH	4
87700210	STEEL MAST ARM ASSEMBLY AND POLE. 34 FT.	EACH	1
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
87700230		EACH	2
87800100	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT. CONCRETE FOUNDATION, TYPE A	FOOT	24
87800100	CONCRETE FOUNDATION, TYPE A CONCRETE FOUNDATION. TYPE C	FOOT	3
87800415	CONCRETE FOUNDATION, TYPE C CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARMINIOUNTED	EACH	4
88040160		EACH	5
88102825	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8
89000100	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COU TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5440
89502300	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502375	REMOVE EXISTING HANDHOLE	EACH	3
89502382	REMOVE EXISTING HANDHOLE REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
89502385	REMOVE EXISTING DOUBLE HANDHOLE REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
X0325839	SIGNAL TIMING	LSUM	1
X0322765 X1400318	RELOCATE VIDEO VEHICLE DETECTION SYSTEM TRACEIC SIGNAL RACKRIATE LOUVERED, EQUARD BLASTIC SPECIAL	EACH EACH	1 17
X7010216	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL TRAFFIC CONTROL AND PROTECTION (SPECIAL)		1
	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS TEAMORADY TRAFFIC SIGNAL TRAINIC	EACH	8
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

SCHEDULE OF POST & FOUNDATION QUANTITIES

SCHEDGE OF FOST & FORDATION QUANTITIES												
				FOUNDATION								
REF.	LOCATION	TYPE	FOUNDATION TYPE	DEPTH (FT)	STATION	OFFSET						
MA-1	NORTHEAST QUADRANT	S MAA & P 52	CONC FDN TY E 36D	15.0	1004+02.7	54.8' LT						
MA-2	SOUTHEAST QUADRANT	S MAA & P 42	CONC FDN TY E 36D	13.0	1003+79.4	41.5' RT						
MA-3	SOUTHWEST QUADRANT	S MAA & P 34	CONC FDN TY E 36D	11.0	1003+07.9	45.1' RT						
MA-4	NORTHWEST QUADRANT	S MAA & P 52	CONC FDN TY E 36D	15.0	1003+02.4	52.7' LT						
TSP-5	NORTHEAST QUADRANT	TS POST 10	CONC FDN TY A	3.0	1003+83.4	65.6' LT						
TSP-6	NORTHEAST QUADRANT	TS POST 15	CONC FDN TY A	3.0	1004+02.7	44.4' LT						
TSP-7	SOUTHEAST QUADRANT	TS POST 10	CONC FDN TY A	3.0	1003+99.8	26.1' RT						
TSP-8	SOUTHEAST QUADRANT	TS POST 15	CONC FDN TY A	3.0	1003+79.9	33.2' RT						
TSP-9	SOUTHWEST QUADRANT	TS POST 10	CONC FDN TY A	3.0	1003+07.6	32.8' RT						
TSP-10	SOUTHWEST QUADRANT	TS POST 15	CONC FDN TY A	3.0	1002+92.5	25.7' RT						
TSP-11	NORTHWEST QUADRANT	TS POST 10	CONC FDN TY A	3.0	1002+91.8	36.7' LT						
TSP-12	NORTHWEST QUADRANT	TS POST 15	CONC FDN TY A	3.0	1003+14.3	63.8' LT						
	NORTHEAST QUADRANT	CONTROLLER	CONC FDN TY C	3.0	1004+13.4	48.6' LT						

SCHEDULE OF HANDHOLE QUANTITIES

REF.	LOCATION	TYPE	STATION	OFFSET								
DHH-1	NORTHEAST QUADRANT	DOUBLE HANDHOLE PCC	1004+09.4	51.1' LT								
HH-2	SOUTHEAST QUADRANT	HANDHOLE PCC	1003+78.3	37.3' RT								
HH-3	SOUTHWEST QUADRANT	HANDHOLE PCC	1003+08.5	39.3' RT								
HH-4	NORTHWEST QUADRANT	HANDHOLE PCC	1003+14.8	66.2' LT								

SCHEDULE OF SIGNAL HEAD QUANTITIES

QUANTITY	UNIT	ITEM	SIGNAL #
4	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	4,8,12,17
4	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	2,6,10,14
4	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	3,7,11,16
5	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	1,5,9,13,15
8	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	
17	EACH	TRAFFIC CICNIAL RACKRIATE LOUIVERED FORMED DI ACTIC CRECIAL	1,2,3,4,5,6,7,8,9,10,
17		CH TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC, SPECIAL	

USER NAME = KED	DESIGNED -	DJD	REVISED -
	DRAWN -	KED	REVISED -
PLOT SCALE = SSCALES	CHECKED -	DJD	REVISED -
PLOT DATE = SDATE\$	DATE -	11/2022	REVISED -

TRAFFIC SIGNAL SCHEDULE			F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEE NO.		
PERU STREET AND MAIN STREET					22-00078	8-00-TL		BUREAU	20	12	
								CONTRACT	NO. 87	7811	
SHE	T 3 OF 8	SHEETS	STA	TO STA	ILLINOIS FED. AID PROJECT						

ELECTRICAL GENERAL NOTES

- 1. ALL SIGNAL HEADS SHALL HAVE 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PAST COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE CONNECTIONS
- 2. BACKPLATES SHALL BE ABS PLASTIC, POLYCARBONATE, LOUVERED FORMED BACKPLATES WITH FLOURESCENT YELLOW SHEETING.
- 3. THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTION, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.
- 4. ALL TRAFFIC SIGNAL CABLES SHALL BE #14 A.W.G. STRANDED COPPER UNLESS OTHERWISE SPECIFIED
- 5. ALL HANDHOLE'S SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03). THE CAST-IN-PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS. HANDHOLE LIDS SHALL OPEN SO THAT YOU ARE FACING THE ROAD.
- 6. MAST ARM FOUNDATION DEPTHS SHOWN ARE APPROXIMATE. THE ENGINEER WILL PROVIDE SOIL BORINGS TO DETERMINE ACTUAL MAST ARM FOUNDATION DEPTHS. THE CONTRACTOR SHALL VERIFY REQUIRED DEPTHS PRIOR TO STEEL FABRICATION AND CONSTRUCTION OF CONCRETE FOUNDATIONS.
- 7. CENTER TO CENTER DISTANCE BETWEEN THE CONDUITS, WHERE TWO OR MORE LOOP LEAD-IN CONDUITS ARE INSTALLED FROM THE EDGE OF THE PAVEMENT TO THE NEAREST HANDHOLE, SHALL BE SIX INCHES MINIMUM AT THE EDGE OF PAVEMENT.
- 8. THERE SHALL BE FOUR (4) GROUND RODS IN THE CONTROLLER CABINET. GROUND WIRES SHALL BE TYPE XLP, NO. 6 A.W.G., STRANDED COPPER, GREEN COLOR CODED AND IN ACCORDANCE WITH STANDARD 873001 AND SECTION 873 OF THE STANDARD SPECIFICATIONS
- 9. PROPOSED CONTROLLER EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING DISTRICT MOBOTREX TRAFFIC SIGNAL EQUIPMENT MONITORING EQUIPMENT AND SOFTWARE.
- 10. CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED PART OF THE NEW CONDUIT INSTALLATION.
- 11. THE LOCATION OF SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE MAST ARMS ARE INSTALLED.
- 12. ALL CONDUIT IN TRENCH SHALL BE P.V.C. CONDUIT PUSHED MAY BE PVC OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED STEEL.
- 13. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANHOLES AND JUNCTION BOXES WILL NOT BE ALLOWED.
- 14. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND STEEL OR ALUMINUM BRACKETS.
- 15. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION. THE DOUBLE HANHOLES INSTALLED CLOSE TO THE ROADWAY SHALL OPEN UP TOWARDS THE ROADWAY SO THE ELECTRICAL MAINTAINER IS NOT EXPOSED TO TRAFFIC WHEN WORKING.
- 16. ALL TRAFFIC SIGNAL CONTROLLERS SHALL INCLUDE NTCIP AND THE VIDEO DETECTION SHALL USE VIDEO G.
- 17. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATIONS.
- 18. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS HAVE BEEN LOCATED AT THE TIME OF SURVEY, OR BASED ON AVAILABLE EXISTING INFORMATION. NO GUARANTEE IS IMPLIED THAT ALL UTILITIES HAVE BEEN LOCATED OR DEPICTED ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF ALL UTILITIES. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
- 19. SIGN SHEETING FOR MAST ARM SIGNS SHALL BE TYPE ZZ SHEETING.



M1-4 24" X 24" Α

TYPE AP SHEETING

FURNISH & INSTALL

(NOT TO SCALE)

FOUR (4) EACH SIGN

В

24" X 24" TYPE AP SHEETING FURNISH & INSTALL

FOUR (4) EACH SIGN

(NOT TO SCALE)



M1-5 24" X 24" С

TYPE AP SHEETING FURNISH & INSTALL FOUR (4) EACH SIGN (NOT TO SCALE) (NOT TO SCALE)

21" X 15" D TYPE AP SHEETING FURNISH & INSTALL TWO (2) EACH SIGN M6-3

E TYPE AP SHEETING FURNISH & INSTALL TWO (2) EACH SIGN (NOT TO SCALE)

21" X 15"

21" X 15' F TYPE AP SHEETING FURNISH & INSTALL

TYPE AP SHEETING FURNISH & INSTALL TWO (2) EACH SIGN TWO (2) EACH SIGN (NOT TO SCALE) (NOT TO SCALE)

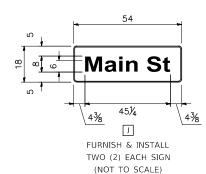
24" X 15" Н

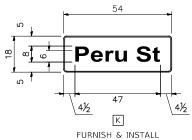
TYPE AP SHEETING FURNISH & INSTALL TWO (2) EACH SIGN (NOT TO SCALE)

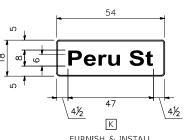


M6-4 24" X 15" I

TYPE AP SHEETING FURNISH & INSTALL TWO (2) EACH SIGN (NOT TO SCALE)







TWO (2) EACH SIGN

(NOT TO SCALE)

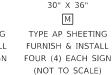


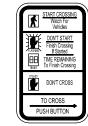


SCALE:



R10-12





24" X 15"

G



R10-3e



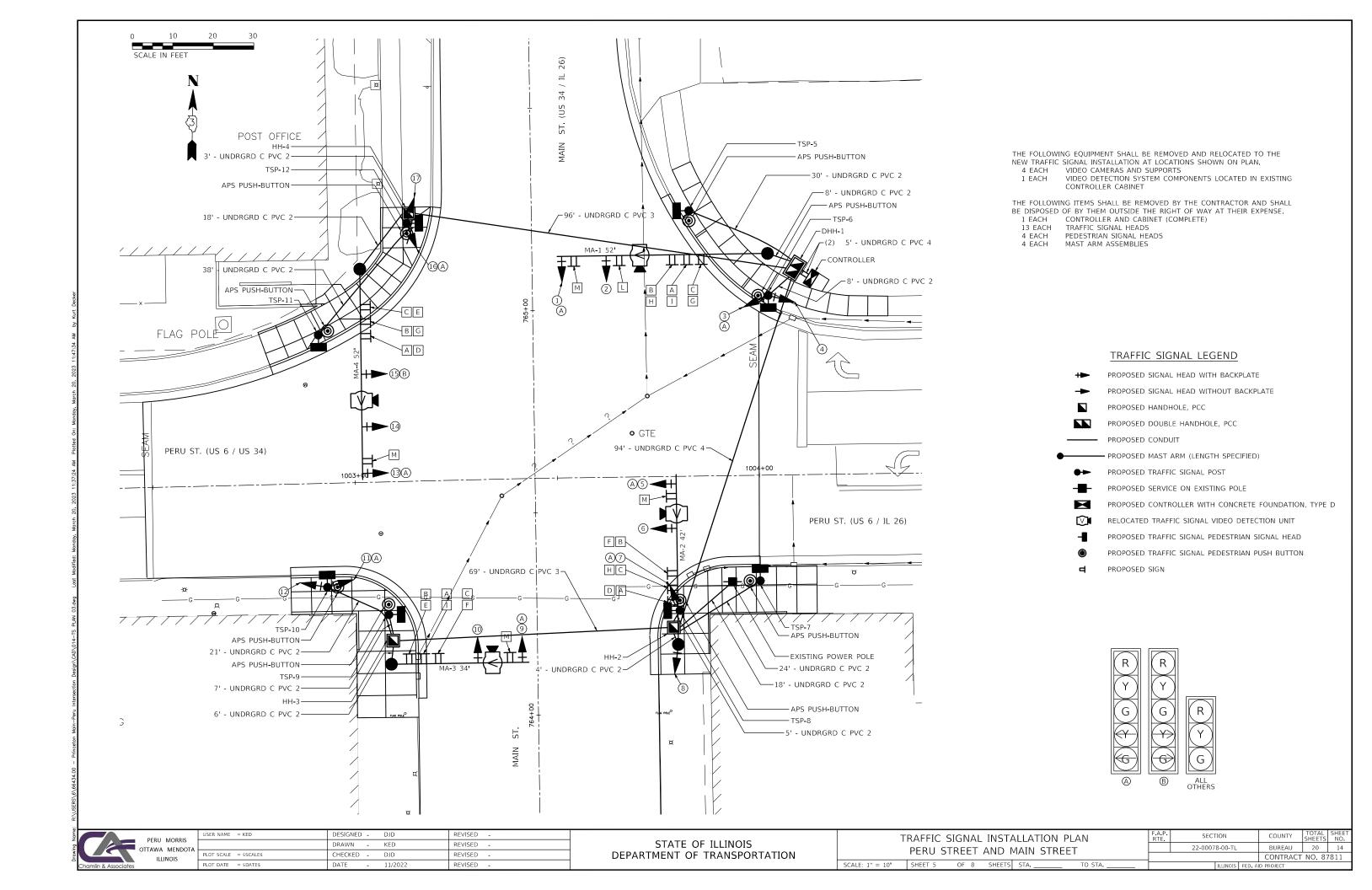
9"x15" TYPE AP SHEETING FURNISH & INSTALL (NOT TO SCALE)

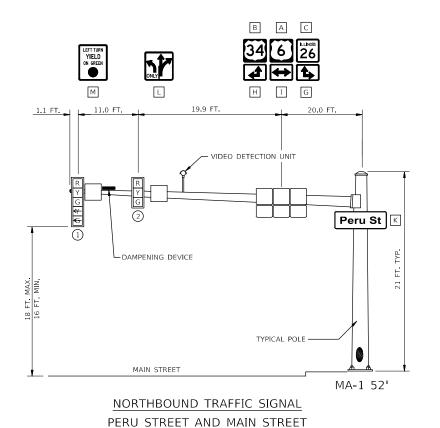
R 10-3e

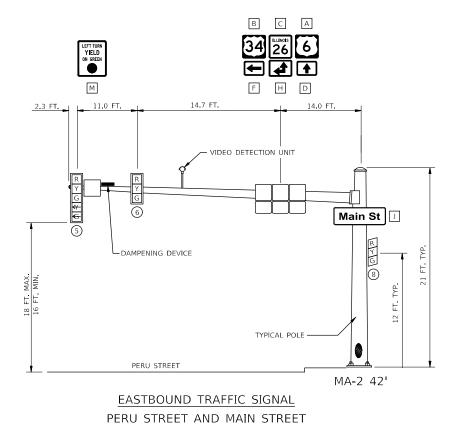


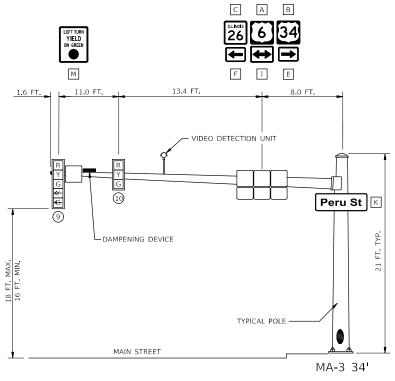
	USER NAME = KED	DESIGNED	-	DJD	REVISED -	
IS OOTA		DRAWN	-	KED	REVISED -	
OTA	PLOT SCALE = SSCALE\$	CHECKED	-	DJD	REVISED -	
	PLOT DATE = SDATE\$	DATE	-	11/2022	REVISED -	

20





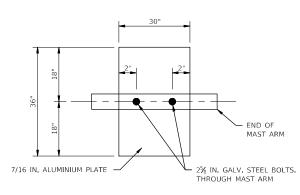




SOUTHBOUND TRAFFIC SIGNAL PERU STREET AND MAIN STREET

A B C LEFT TURN YIELD ON GREEN М D G E 1.5 FT. 11.5 FT. 13.0 FT. 13.0 FT. VIDEO DETECTION UNIT 15 Main St 📗 LDAMPENING DEVICE TYPICAL POLE -PERU STREET MA-4 52'

> WESTBOUND TRAFFIC SIGNAL PERU STREET AND MAIN STREET



DAMPENING PLATE DETAIL

(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY NOT TO SCALE

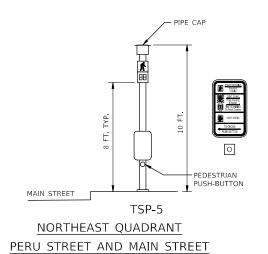
NOTE: DAMPENING DEVICE SHALL CONSIST OF A 30" X 36" TYPE 1 UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. THE COST OF THE DAMPENING DEVICE IS INCLUDED IN THE COST OF THE MAST ARM PAY ITEM.

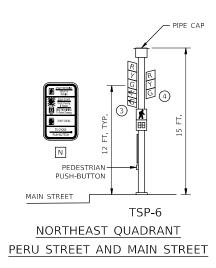
PERU MORRIS		USER NAME = KED	DESIGNED -	DJD	REVISED -	Τ
OTTAV	PERU MORRIS TTAWA MENDOTA		DRAWN -	KED	REVISED -	
	ILLINOIS	PLOT SCALE = SSCALE\$	CHECKED -	DJD	REVISED -	
Chamlin & Associates	IEEIIVOIS	PLOT DATE = SDATE\$	DATE -	11/2022	REVISED -	

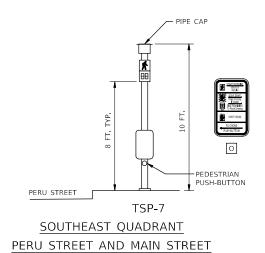
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

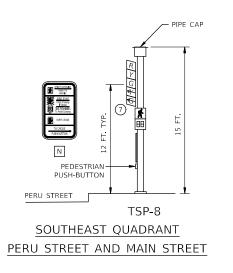
SCALE:

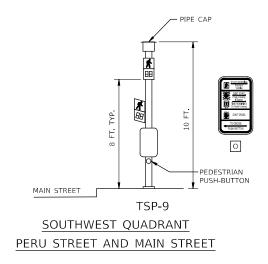
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST DETAILS							A.P. TE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
PERU STREET AND MAIN STREET								22-0007	8-00-TL		BUREAU	20	15
FERO STREET AND MAIN STREET											CONTRACT	NO. 87	7811
SCALE:	SHEET 6	OF 8	SHEETS	STA.	TO STA				ILLINOIS	FED. AI	ID PROJECT		

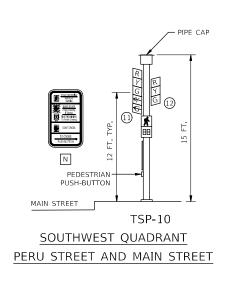


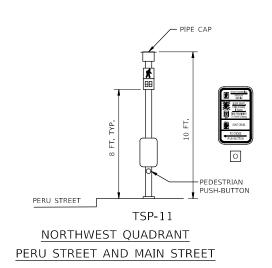


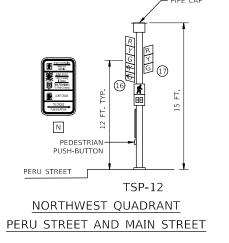








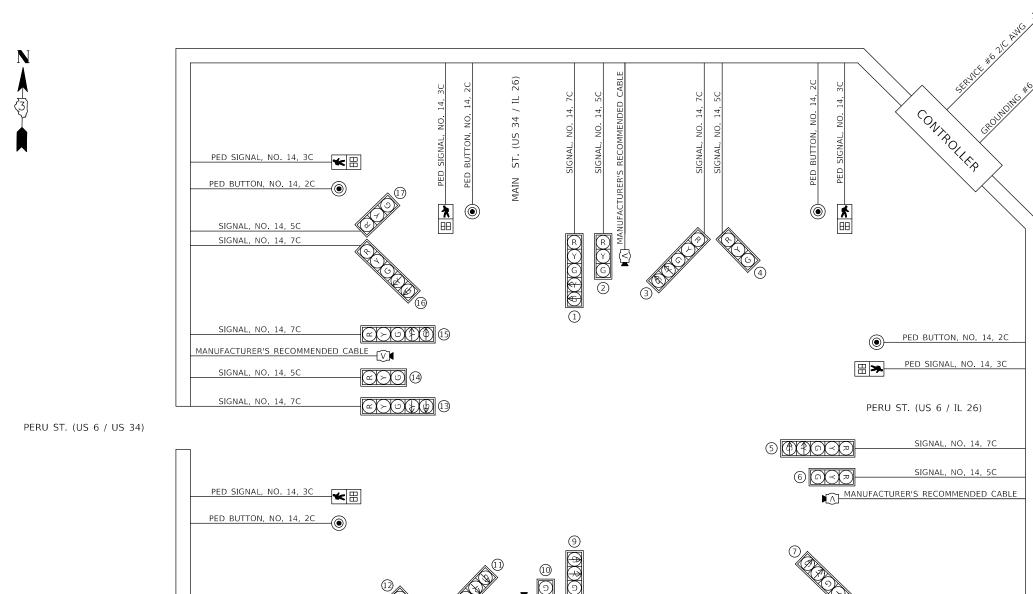




	PERU MORRIS	
	PERU MORRIS	Г
	OTTAWA MENDOTA	H
	ILLINOIS	L
Charalin 8 Associates	IEEHVOIS	Г
Chamlin & Associates		L

DRAWN - KED REVISED - PLOT SCALE = SSCALES CHECKED - DJD REVISED - PLOT DATE = SDATES DATE - 11/2022 REVISED -	USER NAME = KED	DESIGNED - DJD	REVISED -
		DRAWN - KED	REVISED -
PLOT DATE = SDATES DATE - 11/2022 REVISED -	PLOT SCALE = SSCALES	CHECKED - DJD	REVISED -
	PLOT DATE = SDATE\$	DATE - 11/2022	REVISED -

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST DETAILS PERU STREET AND MAIN STREET					F.A.P. RTE	SECTION	ON	COUNTY	TOTAL SHEETS	
						22-00078	-00-TL	BUREAU	20	16
PERU SINEEL AND MAIN SINEEL								CONTRACT	NO. 87	7811
SCALE:	SHEET 7 OF	8 SHEETS	STA	TO STA		II	LLINOIS FEE	D. AID PROJECT		



CABLE DIAGRAM LEGEND

ELECTRIC CABLE IN CONDUIT 5/C NUMBER OF CONDUCTORS IN CABLE

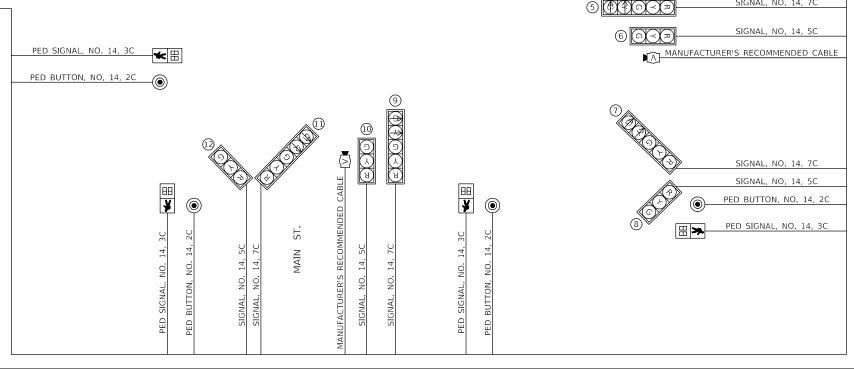
> PROPOSED SERVICE INSTALLATION AMERICAN WIRE GAUGE (AWG) SIZE 6 CONDUCTORS (SEE GENERAL NOTES)

PEDESTRIAN PUSH BUTTON PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN DISPLAY

EMERGENGY VEHICLE PREEMPTION DETECTOR AND BEACON

PROPOSED TRAFFIC SIGNAL VIDEO DETECTOR SYSTEM

GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM. OR (S) SERVICE





NO. 6

88

 \bigcirc

PERU MORRIS OTTAWA MENDOTA ILLINOIS

USER NAME = KED	DESIGNED - DJD	REVISED -
	DRAWN - KED	REVISED -
PLOT SCALE = SSCALES	CHECKED - DJD	REVISED -
PLOT DATE = SDATE\$	DATE - 11/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLA	F.A.P. RTE	SECT	ION		COUNTY	SH	
PERU STREET AND MAIN STREET		22-0007	8-00-TL		BUREAU		
TENO SINCEI AND MAIN SINCEI					CONTRACT	N	
SHEET 8 OF 8 SHEETS STA.	TO STA			ILLINOIS	FED. AI	D PROJECT	

MAIN STREET

3 3

PHASE DESIGNATION DIAGRAM

LEGEND * DUAL ENTRY PHASE * SINGLE ENTRY PHASE

* PEDESTRIAN PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

OL OVERLAP

-6-1

4 7

PERU STREET

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 12/8/22

ROUTE _	ROUTE US 6 / US 34 / IL 26 DESCRIPTION US 6 / US 34 / IL 26 Intersection LOGGED BY Larry M									Myers			
SECTION 22-00078-00-RS LOCATION NW 1/4, SEC. 16, TWP. 16N, RNG. 9E, 4 th PM, Latitude 41.37194, Longitude -89.46481													
COUNTY	Bureau DR	RILLING	ME	THOD			de 41.3/194, Longitud low Stem Auger		YPE _	С	ME A	utoma	tic
Station _	O1 (NE Quad)		D E P T	B L O W	U C S	M 0 1 8	Surface Water Elev Stream Bed Elev Groundwater Elev.:		ft ft	D E P T	B L O W	U C S	M O I S
Station _ Offset _	Surface Elev. 709.34	_	H (ft)	S (/6")	Qu (tsf)	(%)	First Encounter Upon Completion After Hrs.	Dry Dry	ft ft	H (ft)	S (/6")	Qu (tsf)	T (%)
	rown Silty Clay Loam	<u> </u>			,	(13)	Very Stiff to Hard Purp Silty Clay Loam Till - P Odor (continued)	lish Brown	-		4 4 6	3.9 B	14
Hard Brow Sand and	n Silty Clay Loam Fill, Gravel and Debris Fill	706.84	1 _	11	4.5	11			~		4	3.9	13
			-5		Р				-	-25	6	В	
Large Con	crete at 5'	702.34		7 3 2		8	End of Boring		682.84		4 4 7	3.9 B	14
Soft Blue/0 High Petro	Gray Silty Loam/Silt - leum Contamination	702.0-		2 1 1	0.5 P	29	Life of Borning		-	_			
Stiff to Ver	y Stiff Gray Silty Clay Strong Petroleum Odor	698.84	-10	1 3 4	2.0 P	15			_	-30			
Very Stiff t	o Hard Purplish Brown Loam Till - Petroleum	697.34		4 5	3.8	15			-	_			
			-15	4	В				-	-35			
				5 7	4.0 B	13			-	_			
			_	4 5 7	4.0 B	13			-	_			
			-20							-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



USER NAME = KED	DESIGNED -	DJD	REVISED -
	DRAWN -	KED	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	DJD	REVISED -
PLOT DATE = SDATE\$	DATE -	11/2022	REVISED -

TRAFFIC CICALAL BORING LOC	F.A RT	A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TRAFFIC SIGNAL BORING LOG			22-00078-00-TL	BUREAU	20	18
				CONTRACT	NO. 87	811
CHEET 1 OF 1 CHEETC CTA	TO CTA					

NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLIMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE $1\frac{1}{2}$ " IN DIA. AND 9" DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN A $1\frac{1}{4}$ "x18" SMOOTH DOWEL BAR SHALL BE GROUTED IN THE HOLE LONGITUDINALLY.

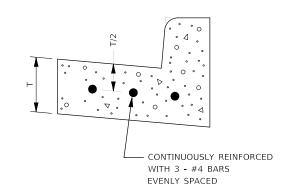
JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THE REMOVED.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

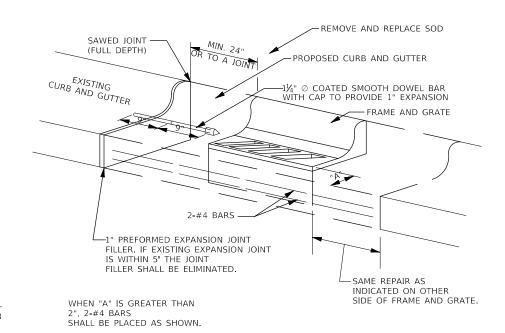
ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS AND INCLUDES THE REMOVAL AND REPLACEMENT OF SOD, CONCRETE PAVEMENT AND/OR CURB AND GUTTER ADJACENT TO CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AND SHALL BE INCLUDED IN THE PAY ITEM OF CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AS SPECIFIED.



REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.

FOR COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24



DETAILS FOR CURB & GUTTER REPLACEMENT CATCH BASIN OR INLETS TO BE ADJUSTED OR RECONSTRUCTED

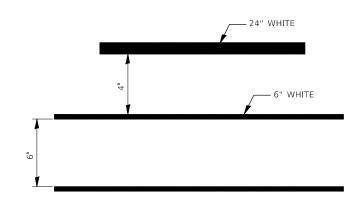
SCALE: N.T.S.



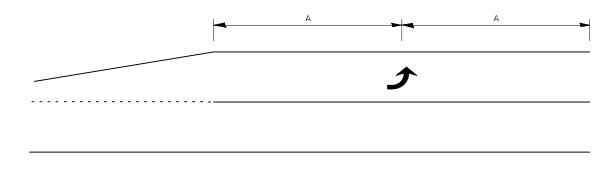
USER NAME = KED	DESIGNED -	DJD	REVISED -
	DRAWN -	KED	REVISED -
PLOT SCALE = SSCALE\$	CHECKED -	DJD	REVISED -
PLOT DATE = SDATE\$	DATE -	11/2022	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

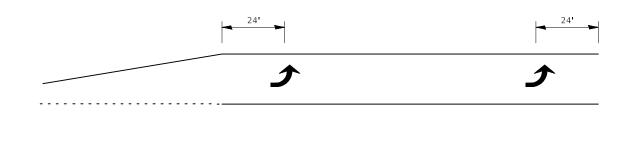
					F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
DETAILS					22-0007	8-00-TL		BUREAU	20	19		
									CONTRACT	NO. 87	7811	
	SHEET 1	OF 2	SHEETS	STA.	TO STA			ILLINOIS	FED. A	D PROJECT		



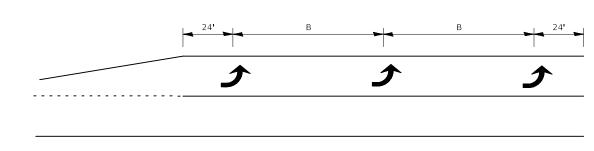
TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS



99' AND UNDER

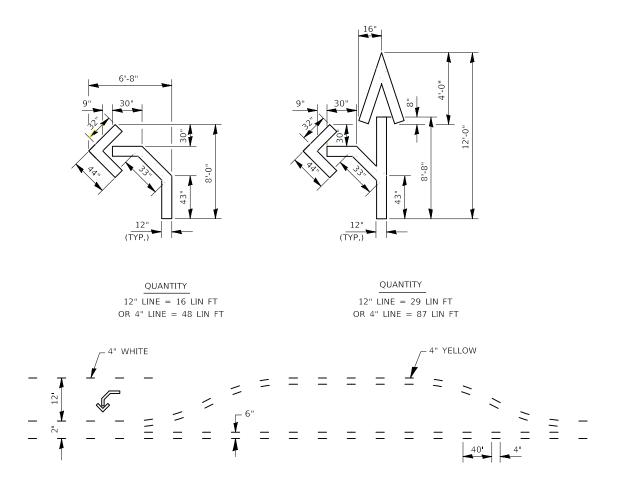


100' TO 149'



150' AND LONGER

TYPICAL PLACEMENT OF ARROWS IN TURN LANES



SHORT-TERM PAVEMENT MARKING FOR MEDIANS AND ARROWS

٠		
į	PERMI MARRIA	USE
	PERU MORRIS	
?	OTTAWA MENDO	гл 📖
Ę	OTTAWA WENDO	'^ PLO
í	ILLINOIS	1.20
	Chamlin & Associates	PLO

USER NAME = KED	DESIGNED	-	DJD	REVISED -
	DRAWN	-	KED	REVISED -
PLOT SCALE = SSCALE\$	CHECKED	-	DJD	REVISED -
PLOT DATE = SDATE\$	DATE	-	11/2022	REVISED -
	PLOT SCALE = SSCALE\$	DRAWN PLOT SCALE = SSCALES CHECKED	DRAWN - PLOT SCALE = SSCALES CHECKED -	DRAWN - KED PLOT SCALE = SSCALES CHECKED - DJD

DETAILS						RTE	SECTION	COUNTY	SHEETS	NO.	
							22-00078-00-TL	BUREAU	20	20	
							CONTRACT NO. 87811				
T.S.	SHEET 2	OF	2	SHEETS	STA	TO STA	ILLINOIS FED AID PROJECT				