

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9122	06-00088-00-TL	MADISON	57	1
FED ROAD DIST NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 97440		57+7 = 64		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
CITY OF COLLINSVILLE
**BELTLINE ROAD (FAU 9122) &
KEEBLER AVENUE (FAU 9135)
INTERSECTION IMPROVEMENTS**
SECTION 06-00088-00-TL
MADISON COUNTY
PROJECT NO. CMM-5011 (235)
JOB NO. C-98-323-07

INDEX OF SHEETS

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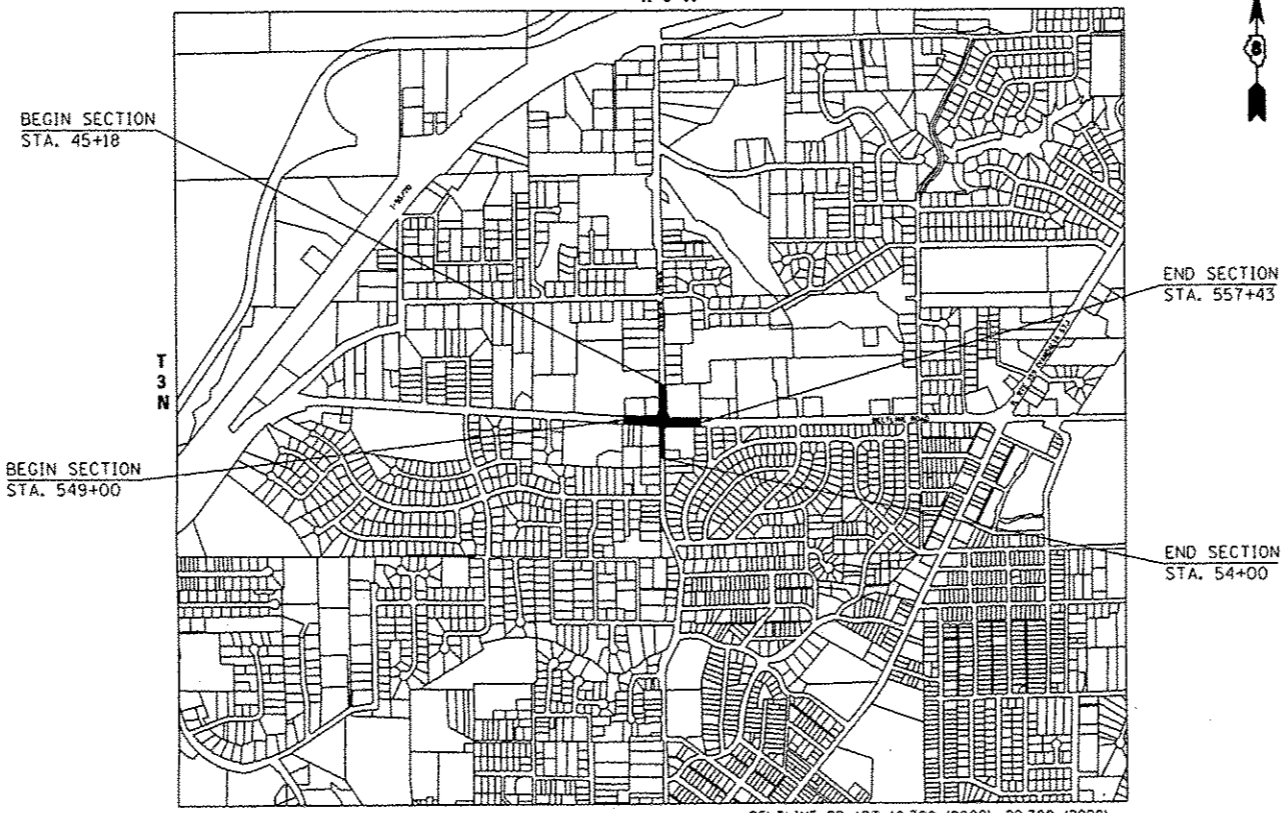
39A MAST ARM FOUNDATION
39B-39C SOIL BORINGS

STANDARDS

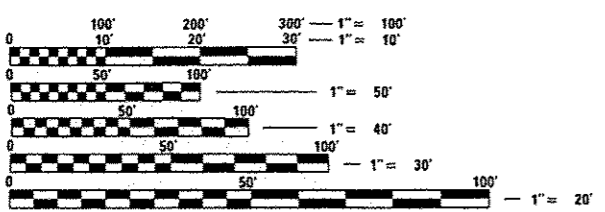
000001-06	701502-06
280001-07	701602-07
424001-08	701701-09
442201-03	701801-05
482001-02	701901-04
542301-03	720001-01
602301-04	720006-04
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604091-03	805001-01
606001-06	814001-03
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606101-04	857001-01
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606301-04	876001-03
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701306-03	886006-01
701311-03	BLR17-4
701326-04	BLR18-6
701501-06	

SCALE IN FEET
PLAN 1"=20'
CROSS SECTION (HORIZ) 1"=10'
(VERT) 1"=5'

R 8 W



LOCATION OF SECTION INDICATED THUS: -



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

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

REVISION 12/16/15

LOCATION MAP
SCALE 1"=1,000'

BELTLINE ROAD LENGTH OF PROJECT: 843' (0.160 MILES)
KEEBLER AVENUE LENGTH OF PROJECT: 882' (0.167 MILES)
NET LENGTH OF PROJECT: 1725' (0.327 MILES)

PHILIP A. MURPHY
062-054536
REGISTERED PROFESSIONAL ENGINEER
OF ILLINOIS
ILLINOIS
PHILIP A. MURPHY
IL P.E. NO. 062-054536
EXPIRES: 11/30/2015

CAES ASSOCIATES
Engineering + Architecture
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720 Olive, Suite 1660
St. Louis, MO 63101
tel 314.588.8381
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: *John Miller* 9-28-15 DATE
JOHN MILLER MAYOR OF COLLINSVILLE

PASSED: 11/12/15 DATE
John Miller DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: 11/12/15 DATE
John Miller DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
						CMAQ	TRAFFIC SIGNAL 0021
	SI	87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1		1
	SI	87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1		1
	SI	87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	2		2
	SI	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3		3
	SP SI	87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3		3
△	SP SI	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	76		76
	SI	87900200	DRILL EXISTING HANDHOLE	EACH	2		2
	SI	88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4		4
	SI	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10		10
	SI	88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4
	SI	88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4
	SI	88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8		8
	SI	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	14		14
	SI	88500100	INDUCTIVE LOOP DETECTOR	EACH	4		4

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
						CMAQ	TRAFFIC SIGNAL 0021
	SP SI	88600100	DETECTOR LOOP, TYPE 1	FOOT	2,655		2,655
	SP SI	89500300	RELOCATE EXISTING ILLUMINATED SIGN	EACH	2		2
	SP SI	89501100	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1		1
	SI	89502200	MODIFY EXISTING CONTROLLER	EACH	1		1
	SI	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,000		4,000
	SP SI	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	19		19
	SP SI	89502380	REMOVE EXISTING HANDHOLE	EACH	7		7
	SP SI	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7		7
	SP	Z0056672	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE, 24"	FOOT	130	130	
	SP SI	X0322951	CABLE SPLICE SPECIAL	EACH	2		2
	SP	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	205	205	
	SP	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
	SP SI	X8880010	ADA PEDESTRIAN PUSH-BUTTON	EACH	8		8
△	SP	Z0076600	TRAINEES	HOOR	500		
	SP	XX006066	SIGN TO BE RELOCATED	EACH	1	1	
△	SP	Z0076600A	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	500		

△ REVISED 12/16/15

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS
SI - SPECIALTY ITEM

△ 0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

FILE NAME *	USER NAME * travis.helmkamp	DESIGNED - PAM	REVISED -
H:\P\26041\dgn\Cadd Sheets\0826041-sh1-04.dgn		DRAWN - JTH	REVISED -
PLOT SCALE = 42,8888' / in.		CHECKED -	REVISED -
PLOT DATE = 10/8/2015		DATE -	REVISED -

SCALE: NONE SHEET NO. 5 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9122	06-00088-00-TL	MADISON	57	7
BELTLINE/KEEBLER INT. IMPROVEMENTS			CONTRACT NO. 97440	
CITY OF COLLINGSVILLE, ILLINOIS FED. AID PROJECT				

ELECTRICAL GENERAL NOTES

- PRIOR TO COMMENCING CONSTRUCTION OF ANY COMPONENT OF THE PROPOSED TRAFFIC SIGNAL SYSTEM, ALL UNDERGROUND UTILITIES SHALL BE FIELD LOCATED ACCORDING TO ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED IN THE GENERAL NOTES OF THE PLANS. CALL J.U.L.I.E. (800) 892-0123 ONE WEEK BEFORE PLANNING TO DIG. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
- STREET NAME SIGNS SHALL BE FABRICATED, DELIVERED AND INSTALLED AS SHOWN ON THE PLANS. SIGNS AND INSTALLATION SHALL CONFORM TO SECTION 720 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND HIGHWAY STANDARDS 720001 AND 720016.
- CONTROLLER CABINETS SHALL BE UNPAINTED ALUMINUM. TRAFFIC SIGNAL POSTS, PEDESTRIAN PUSH-BUTTON POSTS, MAST ARM ASSEMBLIES AND POLES AND BASES SHALL BE UNPAINTED ALUMINUM OR STEEL.
- TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
- MOUNTING HARDWARE, SIGNAL POSTS AND BASES SHALL BE UNPAINTED ALUMINUM. BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- 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 SECTIONS, 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.
- THE DEPTH OF ALL CONCRETE FOUNDATIONS FOR MAST ARM POLES IS ESTIMATED TO BE 15' 0". FINAL DEPTHS WILL BE DETERMINED BY THE ENGINEER FROM SOIL BORING DATA.
- FOUR (4) GROUND RODS (3/4" DIAMETER X 12' LONG) AND #6 BARE COPPER GROUND CONDUCTORS SHALL BE INSTALLED IN THE CONTROLLER FOUNDATION ACCORDING TO THE SPECIAL PROVISION FOR "CONCRETE FOUNDATION, TYPE D".
- THE LOCATION OF SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE MAST ARMS ARE INSTALLED.
- THE OPTICAL UNIT OF ALL TRAFFIC SIGNAL HEADS SHALL BE LIGHT EMITTING DIODES (LED) INSTEAD OF INCANDESCENT BULBS.
- BACK PLATES SHALL BE ABS PLASTIC
- INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL BE RACK MOUNTED AND SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE. "CALL CARRY-OVER" SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DETECTOR LOOPS LOCATED WITHIN HOT-MIX ASPHALT SURFACE LIMITS SHALL BE INSTALLED IN THE PAVEMENT PRIOR TO HMA SURFACE PLACEMENT. DETECTOR LOOPS SHALL BE A MAXIMUM OF 4 INCHES DEEP, MEASURED FROM THE FINAL PAVEMENT SURFACE ELEVATION.
- PROPOSED CONDUIT SHALL BE PVC UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE PLACED AND BACKFILLED PRIOR TO CONSTRUCTION OF NEW PAVEMENT, SHOULDER AND CURB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PUSHING OR PULLING CONDUIT AFTER SUCH WORK HAS BEEN COMPLETED.
- A 1/4" DIAMETER NYLON PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS.
- WHEN CUTTING PROPOSED DETECTOR LOOPS, THE CONTRACTOR SHALL CONTROL DUST SO THAT DUST DOES NOT BECOME AIRBORNE AND BLOW ONTO TRAFFIC OR ADJACENT PROPERTY.
- CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED PART OF THE NEW CONDUIT INSTALLATION.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD WITH NON-HARDENING EPOXY FILLER. RESIN CORE SOLDER SHALL BE USED.
- HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE ACCORDING TO ARTICLE 814.03(B) OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". HANDHOLE COVERS SHALL BE SLOPED TO MATCH PROPOSED ELEVATIONS AND CONTOURS.
- SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
- SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND CONSTRUCTION STAGING REQUIREMENTS.

TRAFFIC SIGNAL SCHEDULE

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES
72000100	SIGN PANEL - TYPE 1	50 FT	40
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2
80500100	SERVICE INSTALLATION, TYPE A	EACH	1
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	294
81028330	UNDERGROUND CONDUIT, PVC, 1 1/4" DIA.	FOOT	424
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	49
81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	16
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	21
81028380	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	10
81028770	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA.	FOOT	252
81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	112
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	4
81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
86300400	CONTROLLER CABINET TYPE IV	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,782
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,379
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,788
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,601
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3,599
87301525	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 6 PAIR	FOOT	634
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	15
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,944
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	1
87602000	PEDESTRIAN PUSH-BUTTON POST	EACH	4
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3
8780045	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	76
87900200	DRILL EXISTING HANDHOLE	EACH	2
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	10
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
88040180	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	14

NEW SIGNAL EQUIPMENT SHALL BE EAGLE BRAND FOR COMPATIBILITY WITH EXISTING EQUIPMENT

REVISED 12/16/15

TRAFFIC SIGNAL SCHEDULE

88500100	INDUCTIVE LOOP DETECTOR	EACH	4
88600100	DETECTOR LOOP, TYPE 1	FOOT	2,655
89500300	RELOCATE EXISTING ILLUMINATED SIGN	EACH	2
89501200	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER	EACH	1
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,000
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	19
89502380	REMOVE EXISTING HANDHOLE	EACH	7
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
90322950	CABLE SPLICE SPECIAL	EACH	2
K8880010	ADA PEDESTRIAN PUSH-BUTTON	EACH	8

STANDARDS FOR TRAFFIC SIGNAL SHEETS

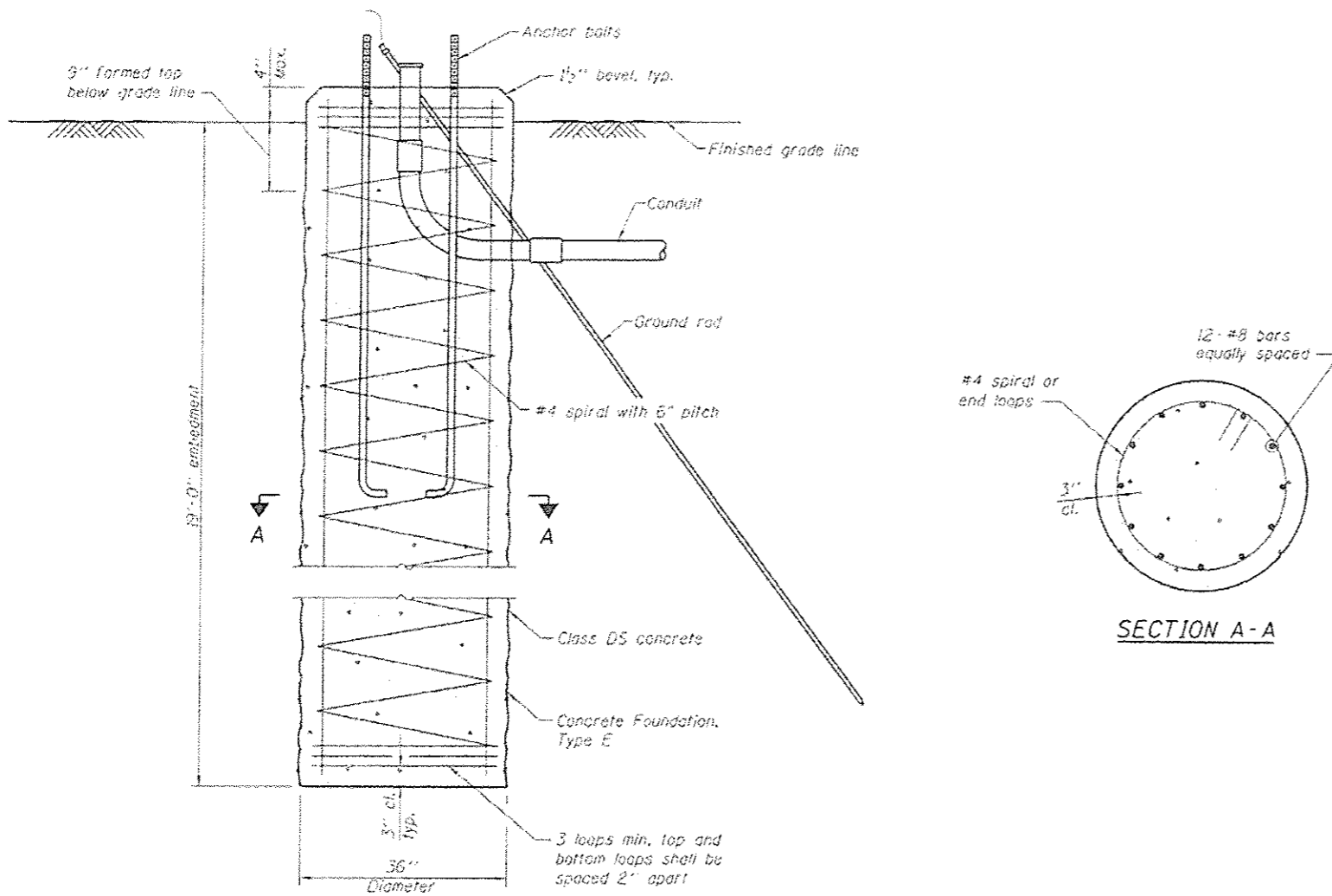
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720016-04	876001-03
805001-01	877001-05
814001-03	878001-10
814006-02	880006-01
837001-01	886001-01
	886006-01

TRAFFIC SIGNAL LEGEND

- REC REMOVE ELECTRIC CABLE FROM CONDUIT
- CNC COILABLE NON-METALLIC CONDUIT
- PVCC POLYVINYL CHLORIDE CONDUIT
- EXISTING SIGNAL POST
- EXISTING SIGNAL POST WITH BACKPLATE
- EXISTING TRAFFIC SIGNAL MAST ARM
- EXISTING HANDHOLE
- EXISTING DOUBLE HANDHOLE
- EXISTING HEAVY DUTY HANDHOLE
- EXISTING DETECTOR LOOP
- EXISTING CONTROLLER
- EXISTING STREET NAME SIGN/TRAFFIC SIGN
- EXISTING ILLUMINATED SIGN
- EXISTING SERVICE INSTALLATION
- EXISTING SIGNAL HEAD, PEDESTRIAN
- EXISTING PEDESTRIAN PUSHBUTTON DETECTOR
- PROPOSED SIGNAL HEAD WITH BACKPLATE, MAST ARM MOUNTED
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED DETECTOR LOOP
- PROPOSED CONTROLLER
- PROPOSED ADA PEDESTRIAN PUSHBUTTON DETECTOR
- PROPOSED SIGNAL HEAD, PEDESTRIAN, WITH COUNT DOWN TIMER
- PROPOSED CONDUIT: "T" TRENCH, "P" PUSH, SIZE SPECIFIED
- PROPOSED STREET NAME SIGN/TRAFFIC SIGN
- RELOCATED ILLUMINATED SIGN
- PROPOSED SERVICE INSTALLATION
- PROPOSED SIGNAL POST
- PROPOSED SIGNAL POST WITH BACKPLATE

FILE NAME: 1011262841\signal\add sheets\0262841-sig	USER NAME: phil.murphy	DESIGNED: PAM	REVISION: REVISED 12/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLANS	F.A.U. RFE: 9122	SECTION: 06-00088-00-TL	COUNTY: MADISON	TOTAL SHEETS: 57	SHEET NO.: 35
	PLOT SCALE: 1/8" = 1'-0"	CHECKED: JTH								
	PLOT DATE: 12/16/2015	DATE:				SCALE: N.T.S.	SHEET NO. 1 OF 4 SHEETS			CONTRACT NO. 97440

SHELLYNE/KEESLER INT. IMPROVEMENTS CITY OF COLLINGSVILLE ILLINOIS FED. AID PROJECT CMM-5011 1234



50', 52', & 55' MAST ARM FOUNDATIONS

GENERAL NOTES

The design shown on this sheet is for the foundation only and does not include the design of structural elements above the top of the foundation including the anchor bolts, base plates, mast arm assembly, etc.

The Design Loading Diagram depicts the loading used in the foundation design. The minimum loading shown in IDOT Highway Standard 877001-06 governed the design. The Engineer shall be notified if the sign and signal head configuration changes from that shown in the contract plans for this project.

The foundation and its construction shall conform to Section 878 of the IDOT Standard Specifications for Road and Bridge Construction.

Backfill shall be clean sand thoroughly compacted by tamping layers not more than 8 inches thick.

Foundation details not shown shall conform to IDOT Standard 878001.

DESIGN LOADS AND SPECIFICATIONS

IDOT Standard Specifications for Road and Bridge Construction

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals

Wind Speed = 90 mph

Ice Load = 3 psf

Dead Load as shown in loading diagram

DESIGN STRESSES

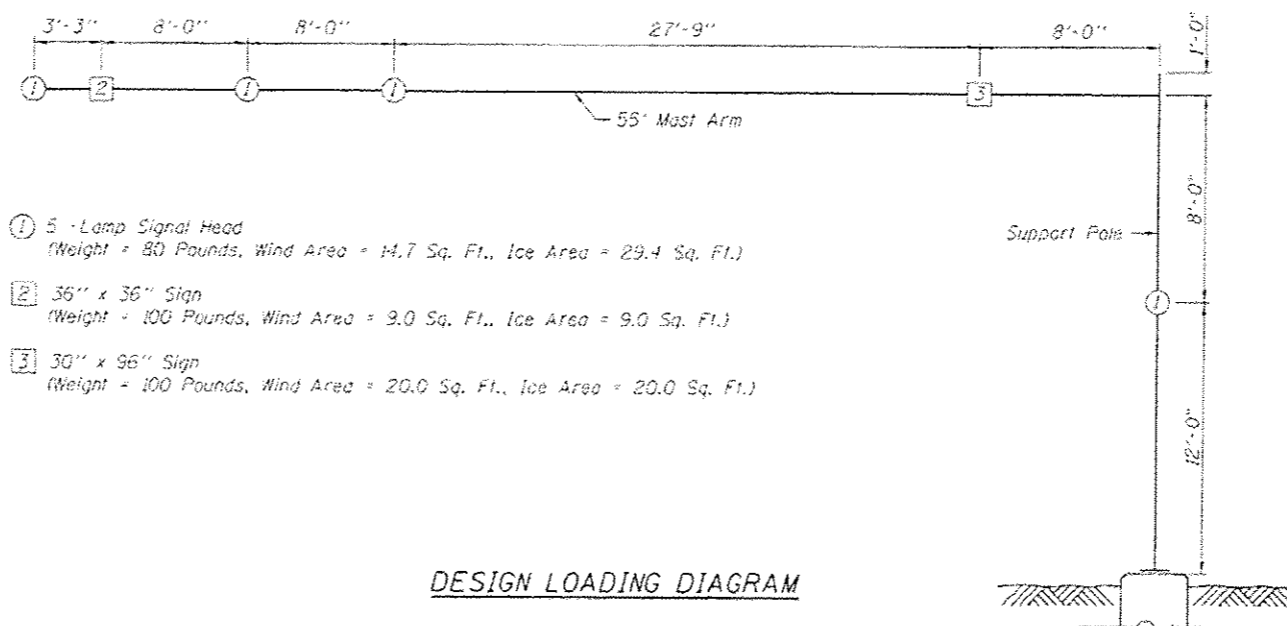
FIELD UNITS

$f'_c = 4,000$ psi

$f_y = 60,000$ psi (Reinforcement)

INDEX OF SHEETS

Sheet No.	Description
1	Mast Arm Foundation
2-3	Soil Boring Logs



DESIGN LOADING DIAGRAM

LICENSED STRUCTURAL ENGINEER
 DANIEL GEORGE LUTZ
 081 006772
 STATE OF ILLINOIS

DATE: 12/16/2015
 EXPIRATION: 11/30/2018

FILE NAME: I:\P\2015\Structural\50, 52, 55' Mast Arm Foundations.dwg

DATES ASSOCIATES
 ENGINEERING & ARCHITECTURE

ILLINOIS DESIGN FIRM LICENSE NO. 182-001515

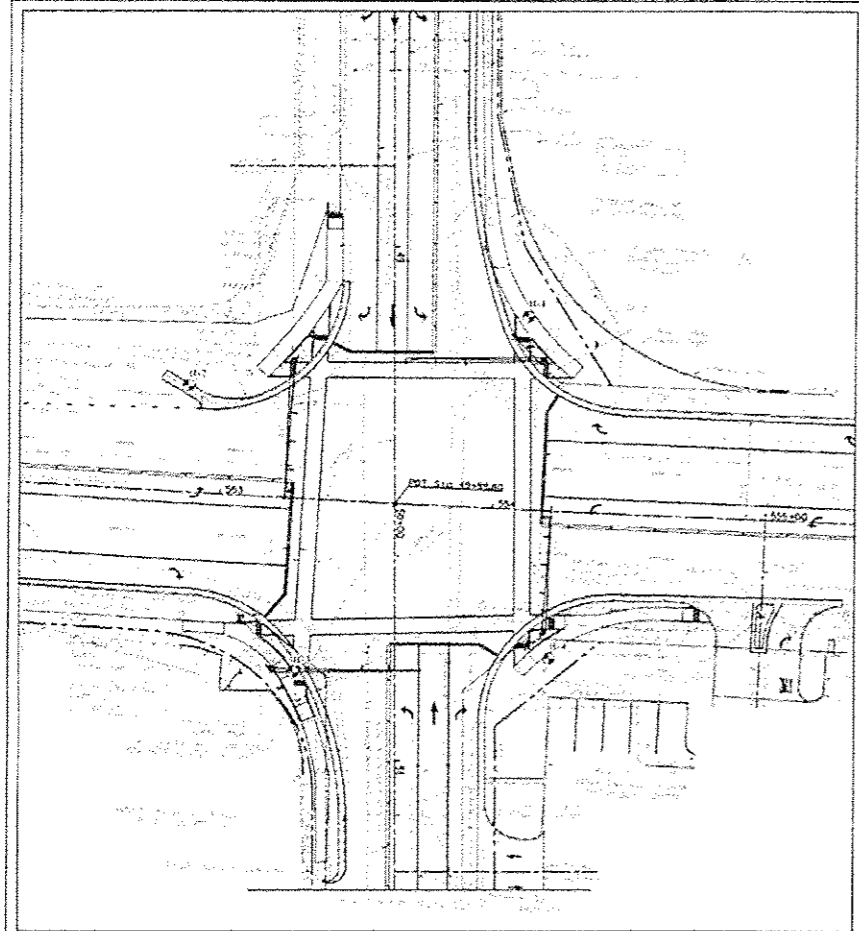
USER NAME	DESIGNED - JAD	REVISED - ADDED 12/16/15
PLLOT SCALE	CHECKED - DGL	REVISED -
PLLOT DATE	DRAWN - JAD	REVISED -
	CHECKED - DGL	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MAST ARM FOUNDATION

SHEET NO. 1 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9135	06-00088-00-TL	MADISON	57	39A
BELTLINE/KEESLER INT. IMPROVEMENTS			CONTRACT NO. 97440	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT CMM-5011 (234)	



	PROJECT NAME	BELTLINE/KEEBLER INTERSECTION IMPROVEMENTS COLLINGSVILLE, ILLINOIS	GENERAL NOTE/LEGEND	
	SHEET PLAN	DRAWN BY: RLK CHECKED BY: JLB DATE: 12/20/15 APP. NUMBER: 2015-1216-JR	SCALE: 1" = 30' PROJECT: 5	



SOIL BORING LOG

Page 1 of 1

ROUTE FAU 9122 / FAU 9135 DESCRIPTION Beltline-Keebler Intersection Improvements Mast Arm - NE Corner LOGGED BY SCI (BLB)

SECTION 06-00088-00-TL LOCATION NW 1/4 of the SW 1/4, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM

COUNTY Madison DRILLING METHOD CME 550 with CFA HAMMER TYPE Automatic

STRUCT. NO. --- Station ---

BORING NO. B-1 Station --- Offset --- Ground Surface Elev. 542.5 ft (ft) (ft) (ft) (%)

DEPTH	DEPTHS	UCS	MOIST	Surface Water Elev.	ft	DEPTHS	UCS	MOIST
ft	(ft)	(tsf)	(%)	ft	ft	(ft)	(tsf)	(%)
0				537.6	ft			
0				538.6	ft			
2						1	0.6	29
4						2		
5						3	0.4	29
7						2	1.0	27
10						3	0.3	29
13						3	1.2	26
16						3		
20						3	0.3	29

Boring terminated at 30 ft. Boring grouted to 30 ft.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 9/95)



SOIL BORING LOG

Page 1 of 1

ROUTE FAU 9122 / FAU 9135 DESCRIPTION Beltline-Keebler Intersection Improvements Mast Arm - NW Corner LOGGED BY SCI (BLB)

SECTION 06-00088-00-TL LOCATION NE 1/4 of the SE 1/4, SEC. 21, TWP. 3N, RNG. 8W, 3rd PM

COUNTY Madison DRILLING METHOD CME 550 with CFA HAMMER TYPE Automatic

STRUCT. NO. --- Station ---

BORING NO. B-2 Station --- Offset --- Ground Surface Elev. 541.3 ft (ft) (ft) (ft) (%)

DEPTH	DEPTHS	UCS	MOIST	Surface Water Elev.	ft	DEPTHS	UCS	MOIST
ft	(ft)	(tsf)	(%)	ft	ft	(ft)	(tsf)	(%)
0								
2						2	0.9	28
4						2		
5						4		
7						2	1.0	28
10						3	0.4	26
13						3	1.5	26
16						3		
20						3	0.4	26

Boring terminated at 30 ft. Boring grouted to 30 ft.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted. BBS, form 137 (Rev. 8/95)

ADDED 12/16/15

	USER NAME *	DESIGNED -	REVISED - ADDED 12/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS	F.A. RTE. 9135 SECTION 06-00088-00-TL COUNTY MADISON TOTAL SHEETS 57	SHEET NO. 2 OF 3 SHEETS
	PLOT SCALE * PLOT DATE * 12/16/2015	CHECKED - DRAWN - CHECKED -	REVISED - REVISED - REVISED -				



SOIL BORING LOG

Page 1 of 1

Date 09/22/15

ROUTE FAU 9122 / FAU 9135 DESCRIPTION Bellino-Keebler Intersection Improvements
Most Am - SW Corner LOGGED BY SCI (BLB)

SECTION 06-00088-00-TL LOCATION SE 1/4 of the SE 1/4, SEC. 21, TWP. 3N, RNG. 8W, 3rd PM

COUNTY Madison DRILLING METHOD CME 350 with CFA HAMMER TYPE Automatic

STRUCT. NO. --	D	B	U	M	Surface Water Elev.	--	ft	D	B	U	M
Station --	E	L	C	O	Stream Bed Elev.	--	ft	E	L	C	O
BORING NO. B-3	P	O	S	I	Groundwater Elev.:			P	O	S	I
Station --	T	W	S	S	First Encounter	None Obs.		T	W	S	S
Offset --	H	S	Qu	T	Upon Completion	--	ft	H	S	Qu	T
Ground Surface Elev. 543.3					After 24 Hrs.	536.6	ft				
	(ft)	(ft)	(%)	(%)				(ft)	(ft)	(%)	(%)

2' GRASS COVER											
SILTY CLAY LOAM Grayish-brown, A-4	2							2	1.4		27
	3		13					3	B		
	2							2			
No crushed rock	3							3	1.0		29
	2	0.8		23				2	B		
	1							1			
With asphalt fragments	2							2	0.8		25
	2	0.5		24	Becomes gray			2	B		
	1							1			
CLAY, Brown, A-6											
	3							3	1.2		27
	2	1.0		29				2	B		
	3							3			
	2							2			
	2	0.2		32				2			
	2							2			
	1							1			
SILTY CLAY Brownish-gray, trace iron stains, A-6	1	0.7		26				1			
	2							2			
	1							1	0.8		27
	2							2			
	3	2.3		20				3			
	2							2			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Booze, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted. BSS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 09/22/15

ROUTE FAU 9122 / FAU 9135 DESCRIPTION Bellino-Keebler Intersection Improvements
Most Am - SE Corner LOGGED BY SCI (BLB)

SECTION 06-00088-00-TL LOCATION SW 1/4 of the SW 1/4, SEC. 22, TWP. 3N, RNG. 8W, 3rd PM

COUNTY Madison DRILLING METHOD CME 350 with CFA HAMMER TYPE Automatic

STRUCT. NO. --	D	B	U	M	Surface Water Elev.	--	ft	D	B	U	M
Station --	E	L	C	O	Stream Bed Elev.	--	ft	E	L	C	O
BORING NO. B-4	P	O	S	I	Groundwater Elev.:			P	O	S	I
Station --	T	W	S	S	First Encounter	534.6	ft	T	W	S	S
Offset --	H	S	Qu	T	Upon Completion	--	ft	H	S	Qu	T
Ground Surface Elev. 544.6					After 24 Hrs.	536.5	ft				
	(ft)	(ft)	(%)	(%)				(ft)	(ft)	(%)	(%)

2' GRASS COVER											
SILTY CLAY LOAM Grayish-brown, A-4	3							3	0.4		29
	4				Becomes brownish gray			4	0.4		21
	3							3			
SILTY CLAY, Brown, trace iron stains, A-6	2							2	0.8		28
	3							3	0.8		28
	4							4			
	1							1	0.2		28
	2							2			
	1							1			
	2							2	0.4		30
	2							2			
	2							2			
	2							2			
	2							2			
	2							2			
	1							1	0.5		29
	1							1			
	2							2	0.4		29
	2							2			
	2							2	0.8		28
	2							2			
	1							1	0.4		26
	1							1			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Booze, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted. BSS, form 137 (Rev. 8-99)

ADDED 12/16/15



USER NAME	DESIGNED	REVISED
PLOT SCALE	CHECKED	REVISED
PLOT DATE	DRAWN	REVISED
	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SHEET NO. 3 OF 3 SHEETS

F.A. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9133	06-00088-00-TL	MADISON	57	39C
BELLINO/KEEBLER INT. IMPROVEMENTS		CONTRACT NO. 97440		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CMM-5011 (234)		