STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS: SEE SHEET 2 FOR INDEX OF SHEETS

PROPOSED HIGHWAY PLANS

FAI 74 (I-74)
PROJECT NUMBER: HSIP-ZD5E(422)
SECTION D4 DYNAMIC MESSAGE SIGNS 2020
DYNAMIC MESSAGE SIGN INSTALLATION
PEORIA & TAZEWELL COUNTY

C-94-010-19

DMS LOCATION #1 I-74 EB AT NEBRASKA AVE.

_DMS LOCATION #2 I-74 EB AT GLEN OAK AVE.

HIGHWAY STANDARDS: SEE SHEET 2 FOR A LIST OF APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION:
INSTALLATION OF DYNAMIC MESSAGE SIGNS AND
ASSOCIATED WORK AT FOUR LOCATIONS ALONG
I-74 IN PEORIA AND TAZEWELL COUNTY

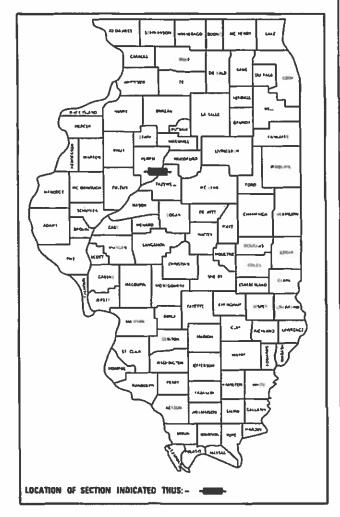
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

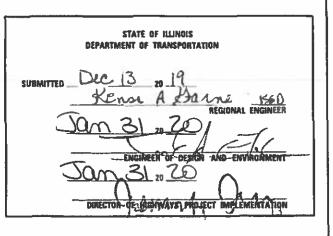
PROJECT ENGINEER: ERIC HOWALD (309) 671-4481
PROJECT MANAGER: BEN TELLEFSON (309) 671-4477

CATALOG NO. 03523-03D CONTRACT NO. 68E72

DMS LOCATION #3 I-74 WB AT IL 116 (MAIN ST.)

_ DMS LOCATION #4 I-74 WB AT WASHINGTON ST. D-94-007-19





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NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

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701400-12	ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP,
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701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
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814001-03	HANDHOLES
836001-04	LIGHT POLE FOUNDATION
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING

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SHEET

URBAN 90% FEDERAL 10% STATE 10% ST					PEORIA COUNTY	TAZEWELL COUNTY
20200100 EARTH EXCAVATION		SUMMARY OF QUANTITIES		URBAN	CODE 0021 SAFETY FUNDS 90% FEDERAL	CODE 0021 SAFETY FUNDS 90% FEDERAL
6300000 STEL PLATE BEAM GUARDRAL, TYPE A. 6 FOOT POSTS FOOT 75.0 75.0 75.0	CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	QTY.	QTY.
63100015 TRAFFIC BARRIER TERMINAL, TYPE 2	20200100	EARTH EXCAVATION	CU YD	18.5	18.5	
BACH 1.0	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75.0	75.0	
B-613001-50 MPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.0	1.0	
64301090 ATTENUATOR BASE SQ YD 9.5 9.5 9.5 64301090 MOBILIZATION L. SUM 1.0 0.5 0.5 64301090 MOBILIZATION L. SUM 1.0 0.5 0.5 7200300 SIGN PANIL - IYPL 3 SQ I I 332.5 178.5 154.0 72700100 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY POUND 3503.5 1642.3 1861.2 73301805 OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A FOOT 154.8 77.4 77.4 73301900 OVERHEAD SIGN STRUCTURE WALKWAY BUTTERFLY, TYPE A FOOT 25.2 12.6 12.6 73400100 CONCRETE FOUNDATIONS CU YD 7.6 3.8 3.8 73400200 DRILLED SHAFT CONCRETE FOUNDATIONS CU YD 29.8 15.6 14.2 73700200 REMOVE CONCRETE FOUNDATIONS CU YD 29.8 15.6 14.2 73700200 REMOVE CONCRETE FOUNDATION - GROUND MOUNT EACH 6.0 3.0 3.0 81028350 UNDERGROUND CONDUIT, PYC. 2" DIA. FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PYC. 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 816003078 UNIT DUCT, 600V, 3.1 C NO.2 GROUND, (XLP TYPE USE), 1.1/2" DIA, POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) IX NO. 6 FOOT 2844.0 1525.0 1319.0 87301900 ELECTRIC CABLE IN CONDUIT, EOUPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1.0	1.0	
C7100100 MOBILIZATION L SUM 1.0 0.5 0.5 0.5	64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1.0		1.0
TOOUSOO SIGN PANEL - TYPE 3 SQ FT 332.5 178.5 154.0	64301090	ATTENUATOR BASE	SQ YD	9.5		9.5
72700100 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY POUND 3503.5 1642.3 1861.2 73301805 OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A FOOT 154.8 77.4 77.4 73301806 OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A FOOT 25.2 12.6 12.6 73400100 CONCRETE FOUNDATIONS CU YD 7.6 3.8 3.8 73400200 DRILLED SHAFT CONCRETE FOUNDATION CU YD 29.8 15.6 14.2 73700200 REMOVE CONCRETE FOUNDATION GROUND MOUNT EACH 6.0 3.0 3.0 81028350 UNDERGROUND CONDUIT, PVC, 2" DIA. FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA, POLYETHYLENE FOOT 2660.0 2660.0 81702130 E-ECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0	67100100	MOBILIZATION	L SUM	1.0	0.5	0.5
73301805 OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A FOOT 154.8 77.4 77.4 73301900 OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A FOOT 25.2 12.6 12.6 73400100 CONCRETE FOUNDATIONS CU YD 7.6 3.8 3.8 73400200 DRILLED SHAFT CONCRETE FOUNDATIONS CU YD 29.8 15.6 14.2 73700200 REMOVE CONCRETE FOUNDATION - GROUND MOUNT EACH 6.0 3.0 3.0 81028350 UNDERGROUND CONDUIT, PVC, 2" DIA. FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0<	72000300	SIGN PANEL - TYPE 3	SQ FT	332.5	178.5	154.0
73301900 OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A FOOT 25.2 12.6 73400100 CONCRETE FOUNDATIONS CU YD 7.6 3.8 3.8 73400200 DRILLED SHAFT CONCRETE FOUNDATIONS CU YD 29.8 15.6 14.2 73700200 REMOVE CONCRETE FOUNDATION GROUND MOUNT EACH 6.0 3.0 3.0 81028350 UNDERGROUND CONDUIT, PVC, 2" DIA. FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83003355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6" EACH 2.0 2.0 87301900	72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	3503.5	1642.3	1861.2
73400100 CONCRETE FOUNDATIONS CU YD 7.6 3.8 3.8 73400200 DRILLED SHAFT CONCRETE FOUNDATIONS CU YD 29.8 15.6 14.2 73700200 REMOVE CONCRETE FOUNDATION - GROUND MOUNT EACH 6.0 3.0 3.0 81028350 UNDERGROUND CONDUIT, PVC, 2" DIA. FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 E.ECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83000355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 E.ECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 </td <td>73301805</td> <td>OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A</td> <td>FOOT</td> <td>154.8</td> <td>77.4</td> <td>77.4</td>	73301805	OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	154.8	77.4	77.4
73400200 DRILLED SHAFT CONCRETE FOUNDATIONS CU YD 29.8 15.6 14.2 73700200 REMOVE CONCRETE FOUNDATION - GROUND MOUNT EACH 6.0 3.0 3.0 81028350 UNDERGROUND CONDUIT, PVC, 2" DIA. FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0 <td>73301900</td> <td>OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A</td> <td>FOOT</td> <td>25.2</td> <td>12.6</td> <td>12.6</td>	73301900	OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	25.2	12.6	12.6
73700200 REMOVE CONCRETE FOUNDATION - GROUND MOUNT EACH 6.0 3.0 3.0 81028350 UNDERGROUND CONDUIT, PVC, 2" DIA. FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	73400100	CONCRETE FOUNDATIONS	CU YD	7.6	3.8	3.8
81028350 UNDERGROUND CONDUIT, PVC, 2" DIA, FOOT 205.0 60.0 145.0 81028370 UNDERGROUND CONDUIT, PVC, 3" DIA, FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	29.8	15.6	14.2
81028370 UNDERGROUND CONDUIT, PVC, 3" DIA. FOOT 1375.0 422.0 953.0 81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0 1.0 1.0	73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	6.0	3.0	3.0
81400200 HEAVY-DUTY HANDHOLE EACH 2.0 2.0 81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	205.0	60.0	145.0
81400700 HANDHOLE, PORTLAND CEMENT CONCRETE EACH 1.0 1.0 81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	1375.0	422.0	953.0
81603078 UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE FOOT 2660.0 2660.0 81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	81400200	HEAVY-DUTY HANDHOLE	EACH	2.0		2.0
81702130 ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6 FOOT 2844.0 1525.0 1319.0 83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' EACH 2.0 2.0 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C FOOT 1020.0 534.5 485.5 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0	1.0	
83600355 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6' 87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	81603078	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	2660.0		2660.0
87301900 ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C 87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2844.0	1525.0	1319.0
87900100 DRILL EXISTING FOUNDATION EACH 1.0 1.0	83600355	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" X 6'	EACH	2.0	2.0	
	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1020.0	534.5	485.5
INSER MANE - Propositi DESIGNED DEVICED	87900100	DRILL EXISTING FOUNDATION	EACH	1.0		1.0
DRAWN - REVISED - STATE OF ILLINOIS SUMMARY OF QUANTITIES 74 DA DYNAMIC MES	USER NAME = hansor					F.A.I. SECTION

COUNTY SHEETS NO.

10 PEORIA 6 43 4

CONTRACT NO. 68E72

		SUMMARY OF QUANTITIES		URBAN	PEORIA COUNTY CONST. TYPE CODE 0021 SAFETY FUNDS 90% FEDERAL 10% STATE	TAZEWELL COUNTY CONST. TYPE CODE 0021 SAFETY FUNDS 90% FEDERAL 10% STATE
	CODE	ITEM DESCRIPTION	UNIT	TOTAL QTY.	QTY.	QTY.
*	87900200	DRILL EXISTING HANDHOLE	EACH	6.0	4.0	2.0
*	X0320023	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	11.0	8.0	3.0
*	X0320024	ETHERNET MANAGE SWITCH	EACH	5.0	5.0	
	X0323388	TRAFFIC COUNTER	EACH	6.0	5.0	1.0
	X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	1.0		1.0
	X0323920	POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	4.0	2.0	2.0
	X0323923	SUPPORT EQUIPMENT AND MAINTENANCE	L SUM	1.0	0.5	0.5
*	X0324597	CLOSED CIRCUIT TELEVISION CABINET	EACH	1.0	1.0	
*	X0325485	TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	4.0	2.0	2.0
	X0325941	ACCESS LADDER	EACH	4.0	2.0	2.0
*	X0326812	CAT 5 ETHERNET CABLE	FOOT	514.0	427.0	87.0
	X0326952	STEP-DOWN TRANSFORMER	EACH	1.0		1.0
	X0327466	TRAFFIC COUNTER POST, GALVANIZED STEEL	EACH	2.0	2.0	
*	X0327739	MISCELLANEOUS ELECTRICAL WORK	L SUM	1.0	0.5	0.5
*	X1400222	BLUETOOTH DETECTOR	EACH	8.0	7.0	1.0
	X6010005	SHOULDER REMOVAL AND REPLACEMENT FOR ELECTRICAL WORK	FOOT	10.0	10.0	
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.5	0.5
	X7240205	REMOVE SIGN COMPLETE	EACH	2.0	1.0	1.0
*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1890.0	838.0	1052.0
*	X8710050	FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	5.0	3.0	2.0
	X8780107	CONCRETE FOUNDATION (SPECIAL)	FOOT	4.5		4.5
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	25.0	25.0	
	USER NAME = h	ensontj DESIGNED - REVISED - STATE OF ILLINOIS	CILLA	MARY OF OUANTITIE	S CONTINUED	F.A.I. SECTION CO

TO STA.

ITEM DESCRIPTION	UNIT	TOTAL QTY.	PROPOSED DMS LOCATION #1 I-74 EB AT NEBRASKA AVE.	PROPOSED DMS LOCATION #2 I-74 EB AT GLEN OAK AVE.	PROPOSED DMS LOCATION #1 I-74 WB AT IL 116 (MAIN ST.)	PROPOSED DMS LOCATION #4 I-74 WB AT WASHINGTON ST.	I-74 @ STERLING AVE.	I-74 @ DRIES LN.	I-74 @ FORREST HILL AVE.	I-74 @ UNIVERSITY ST.	I-74 @ SHERIDAN AVE.	I-74 @ IL 40 (KNOXVILLE AVE.)/ PENNSYLVANIA AVE.	I-74 @ IL 29 (JEFFERSON ST.)	I-74 WB RAMP @ WASHINGTON ST.	I-74 @ PINECREST OVERPASS
EARTH EXCAVATION	CU YD	18.5		18.5											
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75.0		75.0											
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.0		1.0											
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1.0		1.0											
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1.0				1.0									
ATTENUATOR BASE	SQ YD	9.5				9.5									
MOBILIZATION	L SUM	1.0	0.2	0.2	0.2	0.3					0.1				
SIGN PANEL - TYPE 3	SQ FT	332.5	178.5		154.0										
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	3503.5	1642.3		1861.2										
OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	154.8	38.7	38.7	38.7	38.7									
OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	25.2	6.3	6.3	6.3	6.3									
CONCRETE FOUNDATIONS	CU YD	7.6	3.8		3.8										
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	29.8	7.8	7.8	7.8	6.4									
REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	6.0	3.0		3.0										
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	205.0				145.0					60.0				
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	1375.0	25.0	397.0	460.0	493.0									
HEAVY-DUTY HANDHOLE	EACH	2.0			1.0	1.0									
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0		1.0											
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP- TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	2660.0				2660.0									
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	2844.0	224.0	1301.0	1319.0										
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1020.0	112.0	422.5	485.5										
DRILL EXISTING FOUNDATION	EACH	1.0				1.0									

MODEL: Default

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE	REVISED

STATE OF	ILLINOIS
DEPARTMENT OF 1	TRANSPORTATION

						F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	
SCHEDULE OF QUANTITIES				74	D4 DYNAMIC MESSAGE SIGNS 20	20 PEORIA & TAZEWELL	43	6		
								CONTRACT	NO. 6	3E72
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEE	AID PROJECT		

ITEM DESCRIPTION	UNIT	TOTAL QTY.	PROPOSED DMS LOCATION #1 I-74 EB AT NEBRASKA AVE.	PROPOSED DMS LOCATION #2 I-74 EB AT GLEN OAK AVE.	PROPOSED DMS LOCATION #1 I-74 WB AT IL 116 (MAIN ST.)	PROPOSED DMS LOCATION #4 I-74 WB AT WASHINGTON ST.	I-74 @ STERLING AVE.	I-74 @ DRIES LN.	I-74 @ FORREST HILL AVE.	I-74 @ UNIVERSITY ST.	I-74 @ SHERIDAN AVE.	I-74 @ IL 40 (KNOXVILLE AVE.)/ PENNSYLVANIA AVE.	I-74 @ IL 29 (JEFFERSON ST.)	I-74 WB RAMP @ WASHINGTON ST.	I-74 @ PINECREST OVERPASS
DRILL EXISTING HANDHOLE	EACH	6.0	1.0	1.0	1.0	1.0					2.0				
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	11.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0		1.0	1.0	1.0	1.0
ETHERNET MANAGE SWITCH	EACH	5.0	1.0	1.0	1.0		1.0				1.0				
TRAFFIC COUNTER	EACH	6.0	1.0				1.0		1.0		2.0				1.0
FIBER OPTIC CABLE SPLICE - LATERAL	EACH	1.0				1.0									
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	4.0	1.0	1.0	1.0	1.0									
CLOSED CIRCUIT TELEVISION CABINET	EACH	1.0									1.0				
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	4.0	1.0	1.0	1.0	1.0									
ACCESS LADDER	EACH	4.0	1.0	1.0	1.0	1.0									
CAT 5 ETHERNET CABLE	FOOT	514.0	17.0	52.0	35.0	35.0	17.0		17.0	17.0	307.0				17.0
STEP-DOWN TRANSFORMER	EACH	1.0				1.0									
TRAFFIC COUNTER POST, GALVANIZED STEEL	EACH	2.0									2.0				
MISCELLANEOUS ELECTRICAL WORK	L SUM	1.0	0.3	0.2	0.2	0.3									
HELIX FOUNDATION AND BREAKAWAY DEVICE	EACH	2.0									2.0				
BLUETOOTH DETECTOR	EACH	8.0	1.0	1.0			1.0		1.0	1.0	2.0				1.0
SHOULDER REMOVAL AND REPLACEMENT FOR ELECTRICAL WORK	FOOT	10.0									10.0				
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0	0.2	0.2	0.2	0.3					0.1				
REMOVE SIGN COMPLETE	EACH	2.0	1.0		1.0										
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1890.0	149.0	689.0	701.0	351.0									
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	5.0	1.0	1.0	1.0	1.0			1.0						
CONCRETE FOUNDATION (SPECIAL)	FOOT	4.5				4.5									
GUARDRAIL AGGREGATE EROSION CONTROL	TON	25.0		25.0											

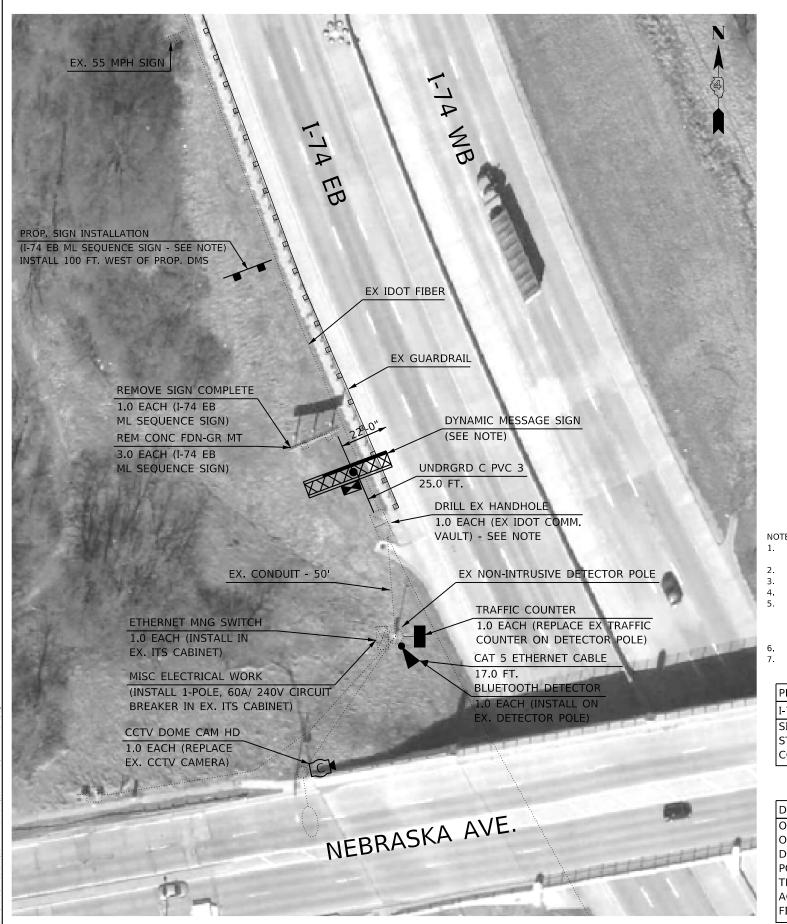
MODEL: Default

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
BLOT DATE - 12/12/2019	DATE	DEVICED

STATE OF	ILLINOIS
DEPARTMENT OF T	TRANSPORTATION

SCHEDULE	0F	QUANTITIE	s – c	ONTINUED
SHEET	OF	SHEETS	STA.	TO STA.

F.A.I. RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHE
74	D4 DYNAMIC MES	SAGE SIGN	IS 2020	PEORIA & TAZEWELL	43	7
				CONTRACT	NO. 68	3E72
		ILLINOIS	FED. A	ID PROJECT		



BILL OF MATERIALS									
ITEM DESCRIPTION	UNIT	QTY.							
SIGN PANEL - TYPE 3	SQ FT	178.5							
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1642.3							
OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	38.7							
OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	6.3							
CONCRETE FOUNDATIONS	CU YD	3.8							
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	7.8							
REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	3.0							
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	25.0							
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	224.0							
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	112.0							
DRILL EXISTING HANDHOLE	EACH	1.0							
TRAFFIC COUNTER	EACH	1.0							
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0							
ETHERNET MANAGE SWITCH	EACH	1.0							
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1.0							
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1.0							
ACCESS LADDER	EACH	1.0							
CAT 5 ETHERNET CABLE	FOOT	17.0							
BLUETOOTH DETECTOR	EACH	1.0							
REMOVE SIGN COMPLETE	EACH	1.0							
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	149.0							
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0							

- THE CONTRACTOR SHALL RE-GRADE AROUND THE EXISTING IDOT COMMUNICATIONS VAULT, TO MATCH THE SURROUNDING GRADE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID PRICE FOR DRILL EXISTING HANDHOLE.
- THE CENTER OF THE PROPOSED CONCRETE FOUNDATION SHALL BE PLACED 22'-0" FROM THE I-74 EB EDGE OF THE TRAVELED WAY.
- REFER TO SHEETS 21-34 FOR THE DYNAMIC MESSAGE SIGN DETAILS.
- THE CONTRACTOR SHALL LOCATE THE ACCESS DOOR AND WALKWAY ON THE RIGHT SIDE OF THE DMS STRUCTURE (FURTHEST AWAY FROM TRAFFIC.)
- THE CONTRACTOR HAS THE OPTION OF REMOVING SECTIONS OF EXISTING GUARDRAIL IF NECESSARY TO ACCESS THE FOUNDATION LOCATION AT NO ADDITIONAL COST TO THE DEPARTMENT. ANY RAIL ELEMENTS THAT ARE REMOVED SHALL BE RE-ERECTED BEFORE THE END OF THE WORK DAY. ANY GUARDRAIL REMOVED SHALL BE STORED IN A SAFE AND SECURE LOCATION. DAMAGED GUARDRAIL SECTIONS OR POSTS WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VERIFY PRESENCE AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL DELIVER THE REMOVED SIGN PANELS TO THE IDOT TRAFFIC BUILDING AT 1025 W. DETWEILLER DR. PEORIA 61615.

PROPOSED SIGN INSTALLATION I-74 EB ML SEQUENCE SIGN INSTALLATION INCLUDES: SIGN PANEL T3 - QTY. 178.5 SQ FT STR STL SIN SUP BA - QTY. 1642.3 POUND CONC FOUNDATION - QTY. 3.8 CU YD

COMMUNICATIONS VAULT SLACK ELECTRIC CABLE - 13.0 FT.

FIBER OPTIC CABLE SLACK DOUBLE HANDHOLE - 30 FT. HANDHOLE - 10 FT. CABINET - 10 FT. COMMUNICATIONS VAULT - 50 FT.

DYNAMIC MESSAGE SIGN INSTALLATION INCLUDES:

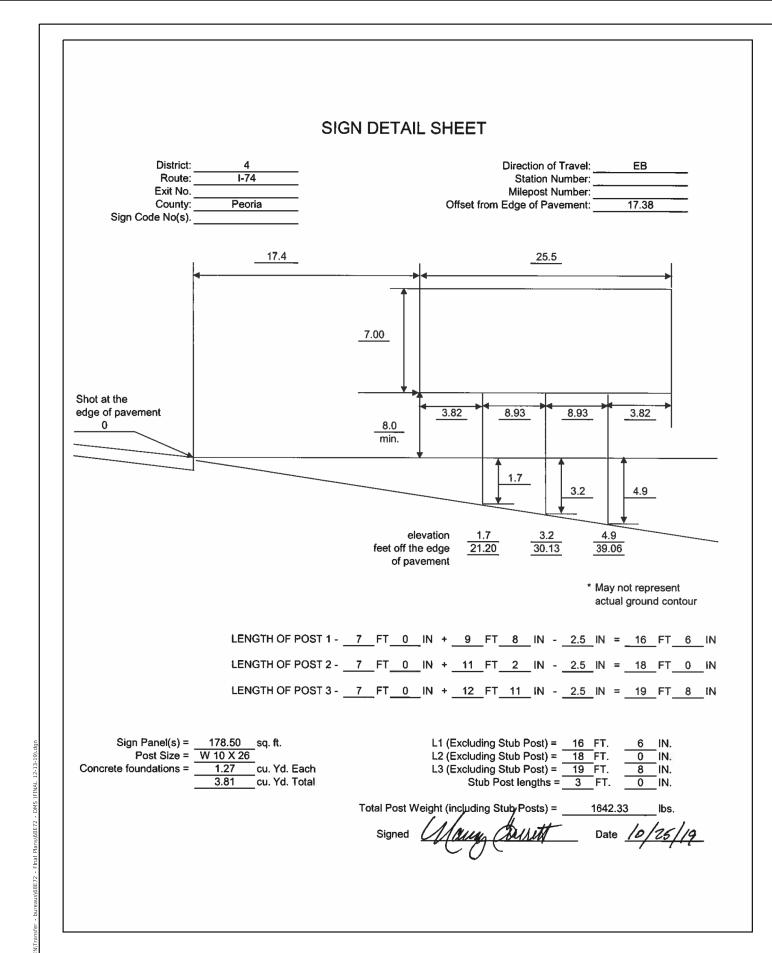
OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A - QTY. 38.7 FT. OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A - QTY. 6.3 FT. DRILLED SHAFT CONCRETE FOUNDATIONS - QTY. 7.8 CU. YD. POLE MOUNTED EQUIPMENT CABINET, TYPE B - QTY. 1.0 EACH TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN - QTY. 1.0 EACH ACCESS LADDER - QTY. 1.0 EACH FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH - QTY. 1.0 EACH

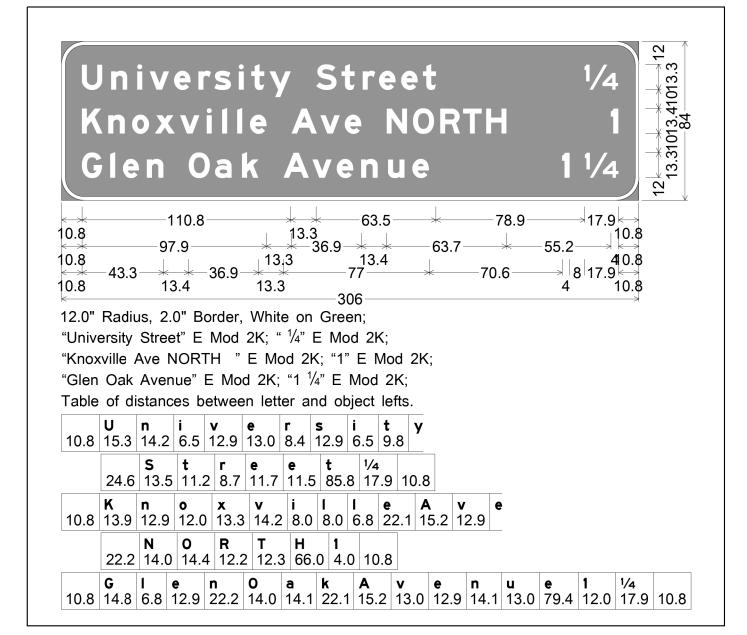
EX. ITS CABINET $\{[],[]\cdots \}\} \quad \text{ EX. LIGHT POLE }$ EX. COMMUNICATIONS VAULT PROP. PVC CONDUIT EX. GUARDRAIL

C PROP. CCTV CAMERA ····· EX. CONDUIT PROP. POLE MOUNTED EQUIPMENT EX. DETECTOR POLE ... EX. SERVICE INSTALLATION

NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -





NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

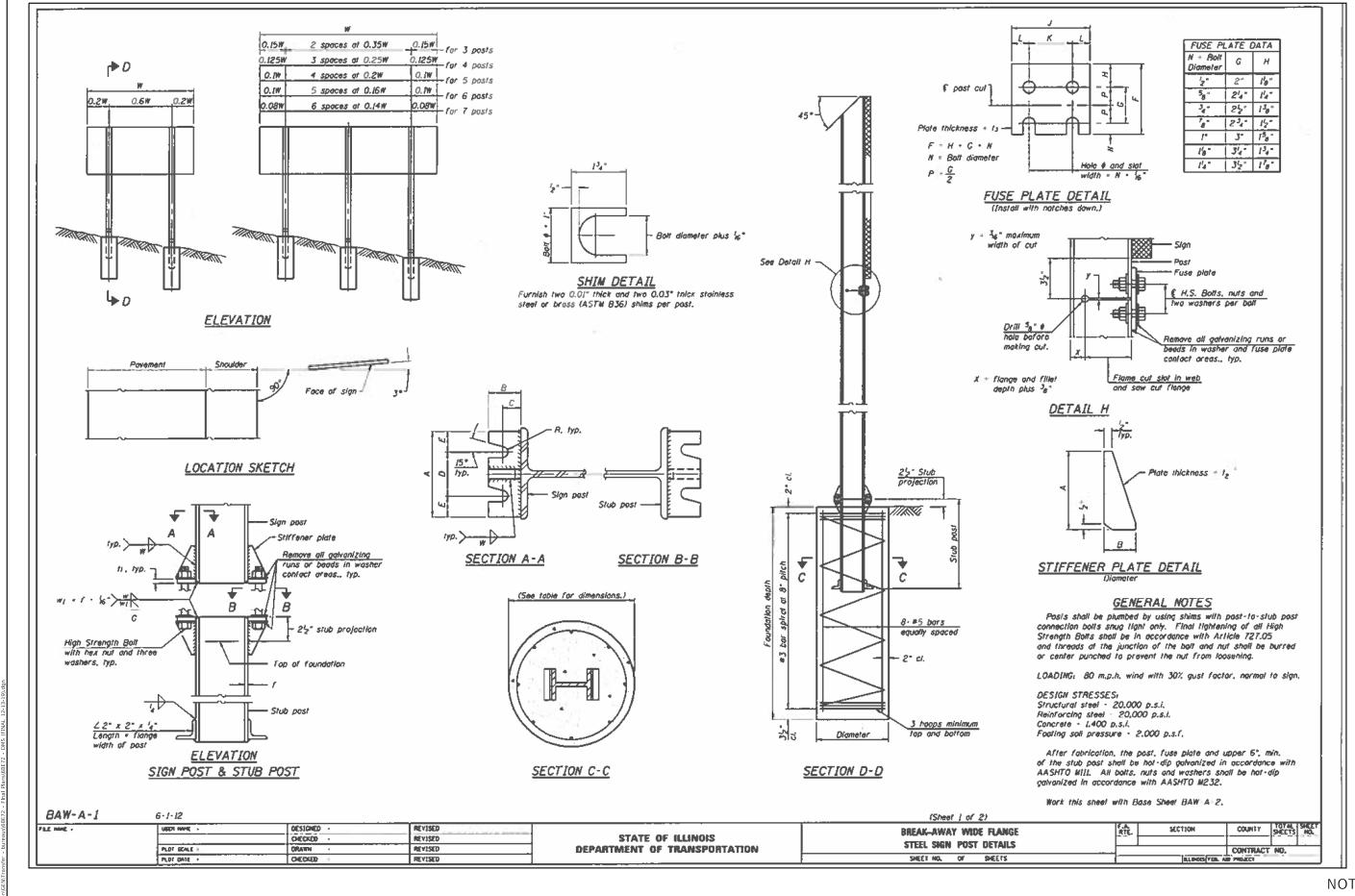
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGN INSTALLATION DETAILS

I-74 EB AT NEBRASKA AVE. – PEORIA COUNTY

SHEET OF SHEETS STA. TO STA.

ALI. SECTION COUNTY TOTAL SHEET NO. 74 D4 DYNAMIC MESSAGE SIGNS 2020 PEORIA 43 9 CONTRACT NO. 68E72



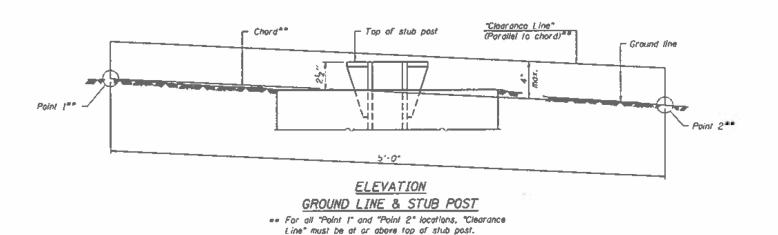
NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -		DDODO	SED SIGN	INICTAL	LATION	DETAILS	CONTINUED	F.A.I. RTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	STATE OF ILLINOIS					THOUGHT STATE STATES					NO.
PLOT SCALE = 81.9197 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	I–74 EB AT NEBRASKA AVE. – PEORIA COUNTY			COUNTY	, ,	D-F D-FINANCE NEDS/FOE SIGNS 2020	CONTRACT N		3E72		
PLOT DATE = 12/13/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AII	D PROJECT		

POST TO STUB POST CONNECTION DATA FUSE PLATE DATA CONCRETE FOUNDATION TABLE Stub Post Reinforcement PQ57 Diameter Length lbs. Minimum Concrete (1) Vertical Bars | Bar Spirals Boll Size O Length Depth cu. yds.) 58" x 3'4" 6" 2'4" 14" 35" 14 3,0 5- 15-4" 79'-0" 21:3" 1'-85" W6x9 2'-0" 6'-0" 0.70 51.9" 78 14" 35" 3,0 4- 6-1'-85" 79'-0" 38" A 314" 6" 24" Ta* 5- 5-78 2'-5" 0.70 5'-9" 2'-0" 6'-0" 12- 132 - 36- 514- 234- 114-34" x 334" 6" 22" 136" 34" 136" 1" 78 2'-6" W8x18 2'-0" 6'-0" 0.70 5'-9" 11-85 791-01 92 3'-0" 12" x 332" 6" 212" 138" 314" 138" 1" 12" 132" 36" 534" 234" 12" W10x22 6'-3" 2'-2'2" 105'-0" 2'-6" 6'-6" 1.18 78" x 4" 7" 234" 12" 4" 12" 1" 34" 59 " 36" 534" 234" 12" 36" 1.27 6' 9" 2' 25" 112' 0" 38 31-01 W10x26 2'-5" 7'-0" 107 5' 0" 18" x 4" 7" 234" 12" 4" 12" 1" 34" 52 " 34" 62" 32" 12" 38" W12x26 7"-6" 2'-25" 119'-0" 2'.5" L4I $\begin{bmatrix} t_8 & x & 4^* & 7^* & 2^3 4^* & 1^5 2^* & 4^* & 1^5 2^* & 1^6 & 3^4 & 6^3 2^* & 3^8 & 6^3 4^* & 3^5 2^* & 1^5 8^* & 5^8 \end{bmatrix}$ 7'-0" 21 85" 145'-0" 113 3'-0" W/4×30 7'-5" 1.90 3'-0" 1" x 412" 712" 3" 13" 4" 13" 14" 34" 14" 34" 15" 634" 312" 158" 5" W!4×38 7'-9" 2'-8'2" 153'-0" 122 3'-6" 2.09 3'-0" 81-0" $2^{\prime \cdot \cdot} 8^{\prime}_{2} = 162^{\prime \cdot \cdot} 0^{\prime \cdot} - 130 \qquad 3^{\prime \cdot \cdot} 6^{\prime \cdot} - 1^{\prime \cdot} \times 4^{\prime}_{2} = 7^{\prime}_{2} = 3^{\circ \cdot} - 1^{\prime \cdot}_{3} = 4^{\circ \cdot} - 1^{\prime}_{4} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{4} = 1^{\prime$ 3'-0" 2.23

^{*}Dimensional changes required for varying site conditions shall be approved by the Engineer.

										FUS	E PLATE	BOLT SIZ	Έ								
										•••	S/gn i	Heighl									
POST	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9.0	100.	H'-0*	12'-0"	13'-0"	141-0"	151-0-	<i>16*-0</i> *	17'-0"	18'-0"	19:-0"	201-011	21'-0"	22'-0"	23'-0"	24'-0"
W5×9		5° x 12°																	_		
W6x15	2" x 134"	5" x 13"	2" x 13"	5g x 2"	50° x 2°	3" x 2"	54" x 2"	34° x 2°	34" x 2"						<u> </u>			<u> </u>			
₩8×18	2" × 134"	5° x 134°	2° x 130°	5° x 134°	50° x 2°	58° x 2°	34" x 2"	3," x 2"	5, x 2"	35 x 2"	_					_		<u> </u>		<u> </u>	
W10×22	5" x 2"	2. 12.	5. × 5.	5" x 2"	2" x 2"	58" x 2"	20, × 5.	4 × 24	4 × 2'4"	4" x 2'4"	34" x 24"	34" x 214"	3 × 2'4"							<u> </u>	<u> </u>
₩10×26	5 x 2"	2" x 2"	2° x 2°	5" x 2"	5" x 2"	8" x 214"	38" x 24"	54° x 212°	4" x 25"	4" x 25"	4" x 25"	4" x 2'2"	3, x 2'2"	34" x 25"							
W12x26	5" x 2"	2" x 2"	5° 12"	5" x 2"	5" x 2"	30" x 2'4"	50° x 2'4°	34" x 2'2"	%° x 25°	1 x 22	34" x 22"	34" x 2'2"	3, 1 22	34" x 2'2"	5 x 25			<u> </u>	<u> </u>	<u> </u>	
W14×30	5" x 2"	2.12.	5° x 2°	5° x 2°	2" x 2"	5g" x 2"	58" x 2"	34" x 214"	34" x 24"	34" x 24"	34" x 24"	3," x 214"	5, x 2'4"	34 x 24	34" x 2"4"	34" x 24"	34" x 24"				
W/4×38	5- x 2"	2" x 2"	5" x 2"	5" x 2"	5" x 2"	50" x 24"	58" x 24"	7. × 52.	3, x 25	3 × 25	3, 1 25.	70° x 25°	ъ° х 25°	1' x 234"	1" x 23s	1" x 234"					
W/6x45		5" x 2"	5" x 2"	5" x 2"	5" x 2"	5' x 2'	5" x 2"	50 × 214	5 × 2'4"	50° x 24°	3. x 25.	34" x 2'5"	78 x 25	78" x 212"	10. × 25.	1" x 23,"	1" x 234"	1" x 234"	I" x 234"	1" x 234"	1" x 234"



- Quantity includes all concrete necessary for one foundation.
- Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

PLOT DATE 4

FILE HARE I

PROP. SIGN POST

(W10X26)

PROP. SIGN POST (W10X26)

6-1-12

| UNION NAME | DESIGNED | REVISED | RE

CHECKED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Sheet 2 of 2)

BREAK-AWAY WIDE FLANGE

STEEL SIGN POST TABLES

SHEET NO. OF SHEETS

RTE, SECTION

CONTRACT NO.

NOT TO SCALE

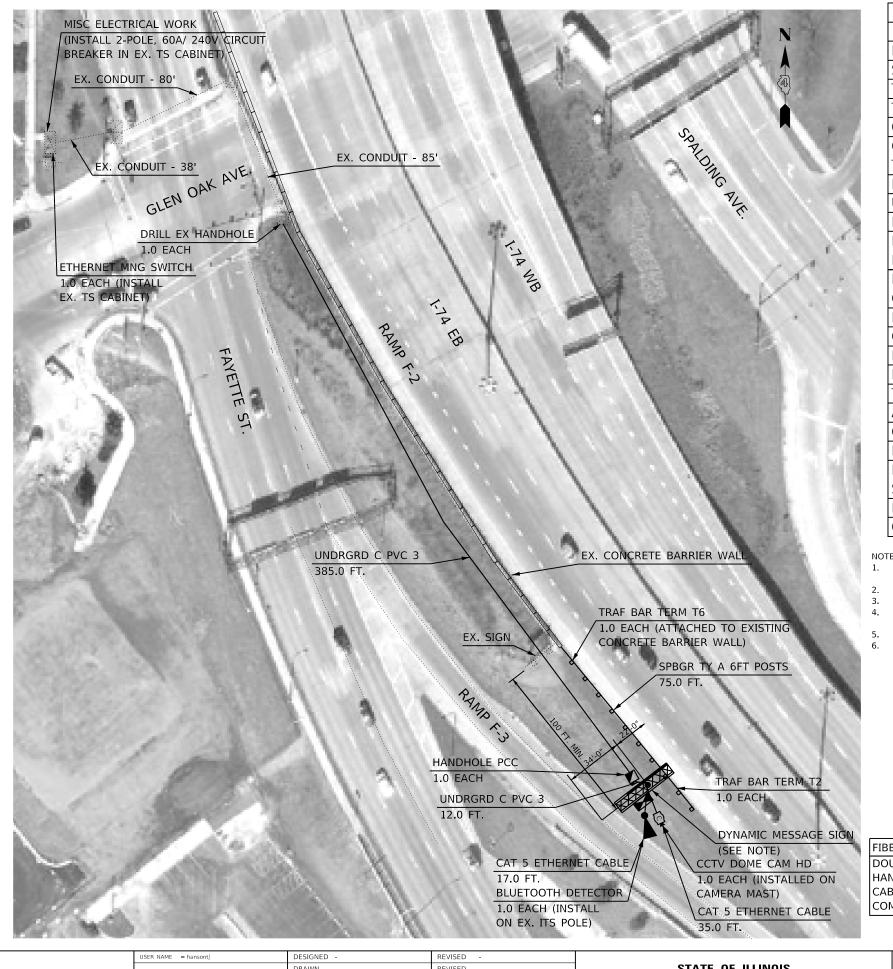
SHEETS NO.

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

REVISED

PROPOSED SIGN INSTALLATION DETAILS - CONTINUED							
I-7	4 EB AT	NEBRAS	SKA AVE.	- PEOF	RIA COUNTY		_
	SHEET	OF	SHEETS	STA.	TO STA.		-

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
74	D4 DYNAMIC MESSAGE SIGN:	PEORIA	43	11	
			CONTRACT	NO. 68	3E72
	ILLINOIS	ID PROJECT			



		BILL OF MATERIALS										
ITEM DESCRIPTION	UNIT	QTY.										
EARTH EXCAVATION	CU YD	18.5										
STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75.0										
TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.0										
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1.0										
OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	38.7										
OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	6.3										
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	7.8										
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	397.0										
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1.0										
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1301.0										
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	422.5										
DRILL EXISTING HANDHOLE	EACH	1.0										
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0										
ETHERNET MANAGE SWITCH	EACH	1.0										
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1.0										
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1.0										
ACCESS LADDER	EACH	1.0										
CAT 5 ETHERNET CABLE	FOOT	52.0										
BLUETOOTH DETECTOR	EACH	1.0										
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	689.0										
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0										
GUARDRAIL AGGREGATE EROSION CONTROL	TON	25.0										

- THE CENTER OF THE PROPOSED CONCRETE FOUNDATION SHALL BE PLACED 22-0" FROM THE RAMP F-2 EDGE OF TRAVELED WAY AND 34'-0" FROM THE RAMP F-3 EDGE OF TRAVELED WAY.
- THE PROPOSED DMS SHALL BE PLACED 100 FT DOWNSTREAM OF THE EXISTING SIGN AT STA. 149+340.
- REFER TO SHEETS 21-34 FOR THE DYNAMIC MESSAGE SIGN DETAILS.
- THE CONTRACTOR SHALL LOCATE THE ACCESS DOOR AND WALKWAY ON THE RIGHT SIDE OF THE DMS STRUCTURE (FURTHEST AWAY FROM RAMP F-2 TRAFFIC.)
- THE CONTRACTOR SHALL VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- THE GUARDRAIL SHALL BE INSTALLED PRIOR TO STARTING WORK ON THE SIGN FOUNDATION.

DYNAMIC MESSAGE SIGN INSTALLATION INCLUDES:

OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A - QTY. 38.7 FT. OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A - QTY. 6.3 FT. DRILLED SHAFT CONCRETE FOUNDATIONS - QTY. 7.8 CU. YD. POLE MOUNTED EQUIPMENT CABINET, TYPE B - QTY. 1.0 EACH TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN - QTY. 1.0 EACH ACCESS LADDER - QTY. 1.0 EACH FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH - QTY. 1.0 EACH

FIBER OPTIC CABLE SLACK DOUBLE HANDHOLE - 30 FT. HANDHOLE - 10 FT. CABINET - 10 FT. COMMUNICATIONS VAULT - 50 FT.

XXXXXXXX EX. CONCRETE BARRIER EX. DOUBLE HANDHOLE EX. HANDHOLE EX. TRAFFIC SIGNAL CABINET C PROP. CCTV CAMERA ····· EX. CONDUIT NOT TO SCALE PROP. BLUETOOTH DETECTOR "::::"::::: EX. SIGN

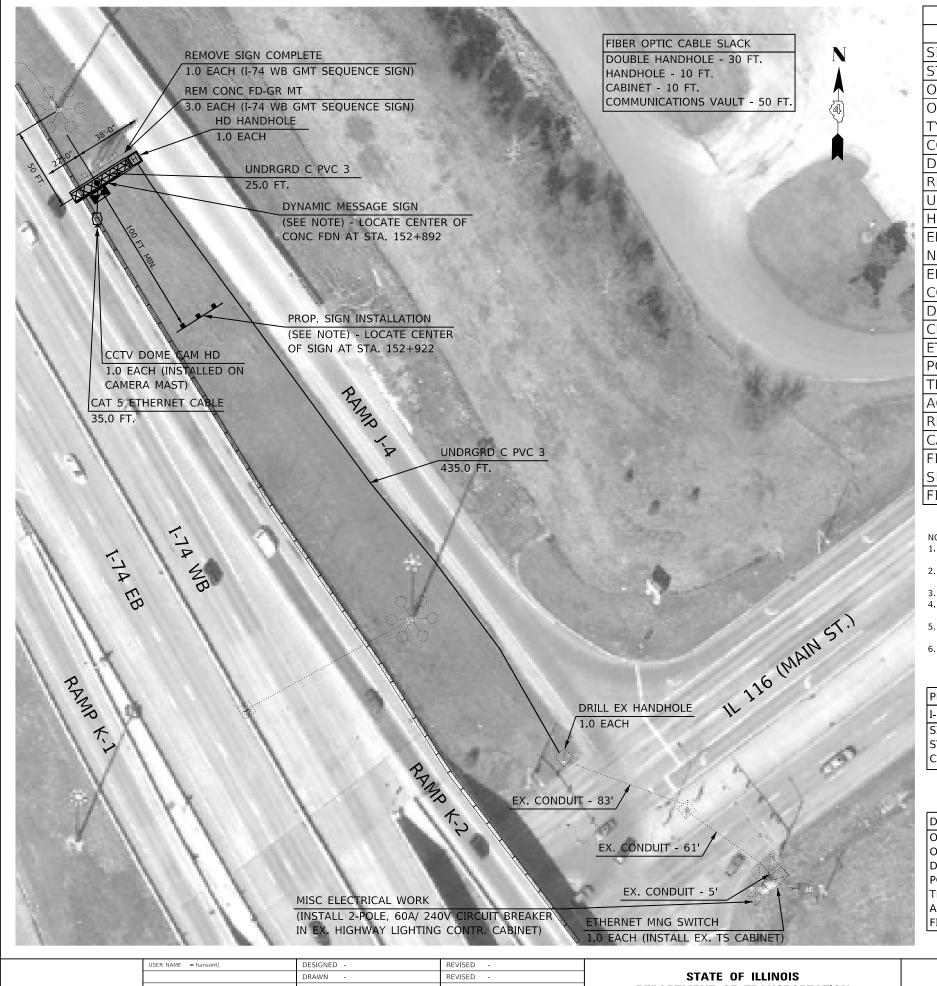
PROP. POLE MOUNTED EQUIPMENT EX. ELECTRICAL SERVICE CABINET, TYPE B

DRAWN REVISED LOT SCALE = 81.9197 ' / in. HECKED REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED DMS LOCATION #2 I-74 EB AT GLEN OAK AVE. - PEORIA COUNTY

SHEETS NO. CONTRACT NO. 68E72



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
SIGN PANEL - TYPE 3	SQ FT	154.0
STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1861.2
OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	38.7
OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	6.3
CONCRETE FOUNDATIONS	CU YD	3.8
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	7.8
REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	3.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	460.0
HEAVY-DUTY HANDHOLE	EACH	1.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	1319.0
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING		
CONDUCTOR, NO. 6 1C	FOOT	485.5
DRILL EXISTING HANDHOLE	EACH	1.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
ETHERNET MANAGE SWITCH	EACH	1.0
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1.0
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1.0
ACCESS LADDER	EACH	1.0
REMOVE SIGN COMPLETE	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	35.0
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	701.0
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0

- THE CENTER OF THE PROPOSED CONCRETE FOUNDATION SHALL BE PLACED 22'-0" FROM THE RAMP K-2 EDGE OF TRAVELED WAY AND 38'-0" FROM THE RAMP J-4 EDGE OF TRAVELED WAY.
- THE PROPOSED DMS SHALL BE PLACED 50 FT UPSTREAM OF THE EXISTING HIGH MAST LIGHT TOWER JAB-2, IN THE SAME LOCATION AS THE EXISTING SIGN TO BE REMOVED.
- REFER TO SHEETS 21-34 FOR THE DYNAMIC MESSAGE SIGN DETAILS.
- THE CONTRACTOR SHALL LOCATE THE ACCESS DOOR AND WALKWAY ON THE RIGHT SIDE OF THE DMS STRUCTURE (FURTHEST AWAY FROM RAMP K-2 TRAFFIC.)
- THE CONTRACTOR SHALL VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL DELIVER THE REMOVED SIGN PANELS TO THE IDOT TRAFFIC BUILDING AT 1025 W. DETWEILLER DR. PEORIA 61615.

PROPOSED SIGN INSTALLATION

I-74 WB GMT SEQUENCE SIGN INSTALLATION INCLUDES: SIGN PANEL T3 - QTY. 154.0 SQ FT

STR STL SIN SUP BA - QTY. 1861.2 POUND CONC FOUNDATION - QTY. 3.8 CU YD

*******	PROP. DMS ASSEMBLY		EX. CONCRETE BAR
Н	PROP. HEAVY-DUTY HANDHOLF	1919	EX. DOUBLE HANDH
0 0	PROP. GUARDRAIL	151	EX. HANDHOLE
_	PROP. PVC CONDUIT	CEG	EX. TRAFFIC SIGNAL
© •	PROP. CCTV CAMERA	11 0 12 0 11 11 0	EX. HIGH MAST LIGH
	PROP. SIGN	-(1)-	EX. ELECTRICAL SER
	PROP. POLE MOUNTED	100	EX. JUNCTION BOX
\blacksquare	EQUIPMENT CABINET, TYPE B	133	EX. LIGHTING CONT
		177 - 177 - 177	EX. SIGN

DYNAMIC MESSAGE SIGN INSTALLATION INCLUDES:

OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A - QTY. 38.7 FT. OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A - QTY. 6.3 FT. DRILLED SHAFT CONCRETE FOUNDATIONS - QTY. 7.8 CU. YD. POLE MOUNTED EQUIPMENT CABINET, TYPE B - QTY. 1.0 EACH TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN - QTY. 1.0 EACH ACCESS LADDER - QTY. 1.0 EACH FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH - QTY. 1.0 EACH

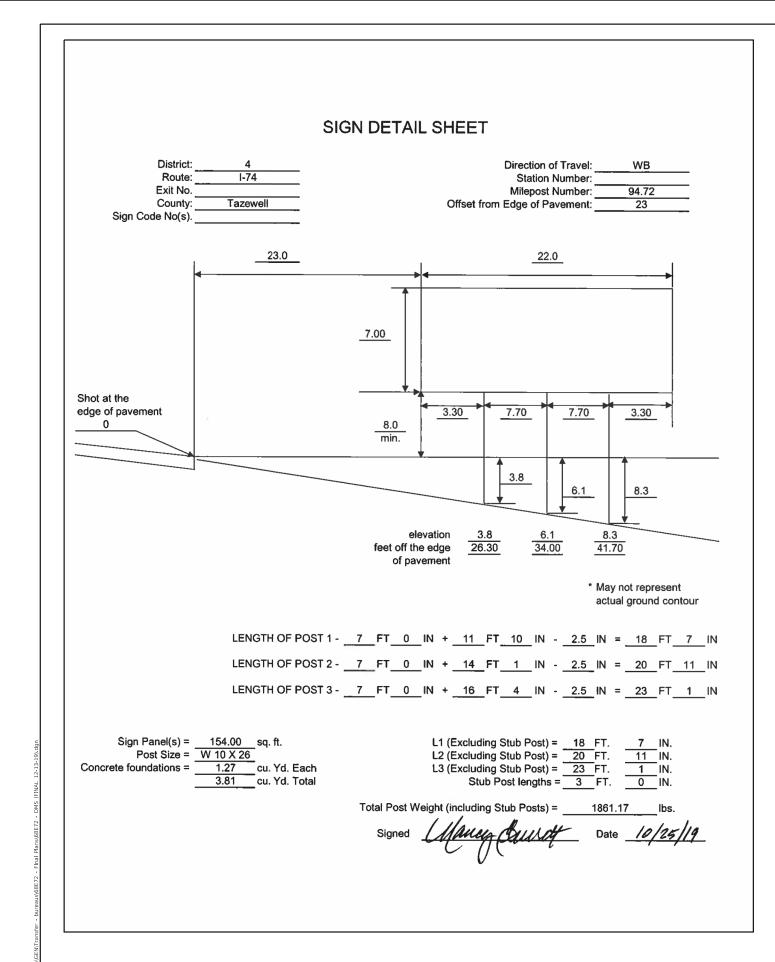
NOT TO SCALE

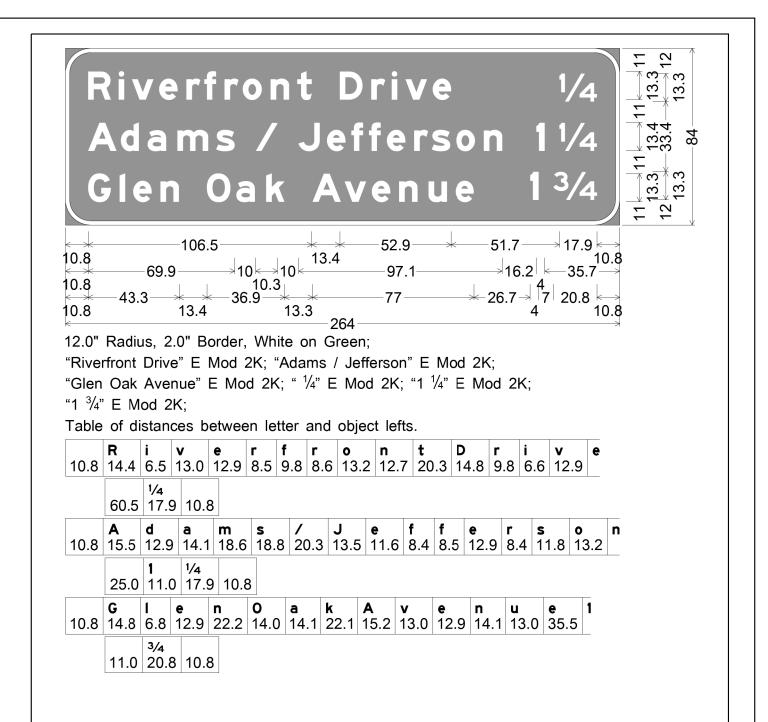
EX. CONDUIT

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

DEPARTMENT OF TRANSPORTATION

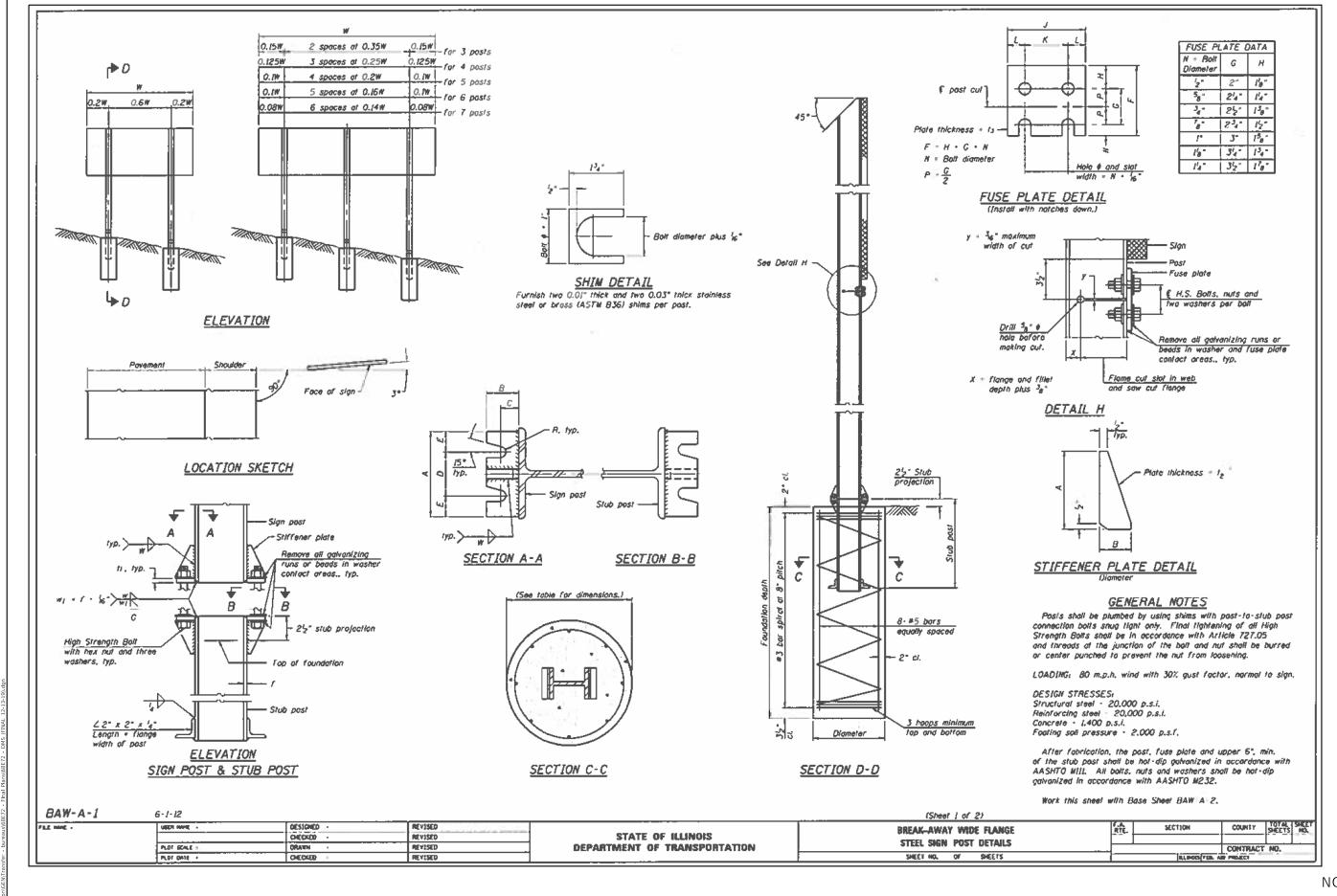
	PRO	POSE	D DMS LOC	ATION #	#3	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS
-7/	WR AT II	116	(TO MIAIN)	_ TAZEV	VELL COUNTY	74	D4 DYNAMIC MESSAGE SIGNS 2020	TAZEWELL	43
-/-	VVD AI II	- 110	(IVIAIIV 51.)	- IAZLV	VLLE COOKII			CONTRACT	NO. 68
	SHEET	ΩE	SHEETS	STA	TO STA		TILLINOIS SED A	ID DDOJECT	





NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -



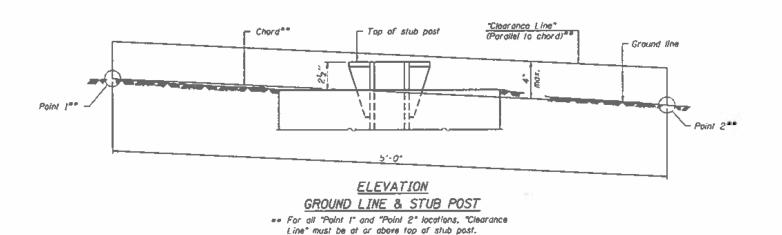
NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -		PROPO	SED SIGN	INISTA	ΜΙΙ ΔΤΙΩΝ	DETAILS -	- CONTINUED	F.A.I. BTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	1 1101 0			VIAIN ST.		ELL COUNTY	74 D	94 DYNAMIC MESSAGE SIGNS 2020	TAZEWELL	43	15
PLOT SCALE = 81.9197 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	I-/4	WB AI IL	L IID (IV	MAIN 51.) – IAZEVVI	ELL COUNTY			CONTRACT	T NO. 68	8E72
PLOT DATE = 12/13/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

POST TO STUB POST CONNECTION DATA FUSE PLATE DATA CONCRETE FOUNDATION TABLE Stub Post Reinforcement PQ57 Diameter Length lbs. Minimum Concrete (1) Vertical Bars | Bar Spirals Boll Size O Length Depth cu. yds.) 38" x 3'4" 6" 2'4" 1'4" 3'2" 14 3,0 5- 15-4" 79'-0" 21:3" 1'-85" W6x9 2'-0" 6'-0" 0.70 51.9" 78 14" 35" 3,0 4- 6-38" A 314" 6" 24" Ta* 5° 5° 79'-0" 78 2'-5" 0.70 5'-9" 1'-85" M5x15 2'-0" 6'-0" 12- 132 - 36- 514- 234- 114-34" x 334" 6" 22" 136" 34" 136" 1" 78 2'-6" W8x18 2'-0" 6'-0" 0.70 5'-9" 11-85 791-01 92 3'-0" 34" x 334" 6" 212" 138" 314" 138" 1" 12" 132" 36" 534" 234" 112" 6'-3" 2'-2'2" 105'-0" W10x22 2'-6" 6'-6" 1.18 78" x 4" 7" 234" 12" 4" 12" 1" 34" 59 " 36" 534" 234" 12" 36" 1.27 6' 9" 2' 25" 112' 0" 38 31-01 W10x26 2'-5" 7'-0" 107 5' 0" 18" x 4" 7" 234" 112" 4" 112" 1" 34" 522" 34" 612" 312" 112" 38" W12x26 7"-6" 2'-25" 119'-0" 2'.5" L4I $\begin{bmatrix} t_8 & x & 4^* & 7^* & 2^3 4^* & 1^5 2^* & 4^* & 1^5 2^* & 1^6 & 3^4 & 6^3 2^* & 3^8 & 6^3 4^* & 3^5 2^* & 1^5 8^* & 5^8 \end{bmatrix}$ 7'-0" 21 85" 145'-0" 113 3'-0" W/4×30 7'-5" 1.90 3'-0" 3'-6" 1" x 412" 712" 3" 13" 4" 13" 14" 34" 14" 34" 15" 634" 312" 158" 5" W!4×38 7'-9" 2'-8'2" 153'-0" 122 2.09 3'-0" 81-0" $2^{\prime \cdot \cdot} 8^{\prime}_{2} = 162^{\prime \cdot \cdot} 0^{\prime \cdot} - 130 \qquad 3^{\prime \cdot \cdot} 6^{\prime \cdot} - 1^{\prime \cdot} \times 4^{\prime}_{2} = 7^{\prime}_{2} = 3^{\circ \cdot} - 1^{\prime \cdot}_{3} = 4^{\circ \cdot} - 1^{\prime}_{4} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{4} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{3} = 1^{\prime \cdot}_{4} = 1^{\prime$ W15x45 3'-0" 8'-6" 2.23

^{*}Dimensional changes required for varying site conditions shall be approved by the Engineer.

										FUS	E PLATE	BOLT SIZ	Έ								
	Sign Height																				
POST	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9.0	100.	H'-0*	12'-0"	13'-0"	141-0"	151-0-	<i>16*-0</i> *	17'-0"	18'-0"	19:-0"	201-011	21'-0"	22'-0"	23'-0"	24'-0"
W5×9		5° x 12°																	_		
W6x15	2" x 134"	5" x 13"	2" x 13"	5g x 2"	50" x 2"	3" x 2"	54" x 2"	34° x 2°	34" x 2"						<u> </u>			<u> </u>			
₩8×18	2" × 134"	5° x 134°	2° x 130°	5° x 134°	50° x 2°	58° x 2°	34" x 2"	3," x 2"	5, x 2"	35 x 2"	_					_		<u> </u>		<u> </u>	
W10×22	5" x 2"	2. 12.	5. × 5.	5" x 2"	2" x 2"	58" x 2"	20, × 5.	4 × 24	4 × 2'4"	4" x 2'4"	34" x 24"	34" x 214"	3 × 2'4"							<u> </u>	<u> </u>
₩10×26	5 x 2"	2" x 2"	2° x 2°	5" x 2"	5" x 2"	8" x 214"	38" x 24"	54° x 212°	4" x 25"	4" x 25"	4" x 25"	4" x 2'2"	3, x 2'2"	34" x 25"							
W12x26	5" x 2"	2" x 2"	5° 12"	5" x 2"	5" x 2"	30" x 2'4"	50° x 2'4°	34" x 2'2"	%° x 25°	1 x 22	34" x 22"	34" x 2'2"	3, 1 22	34" x 2'2"	5 x 25			<u> </u>	<u> </u>	<u> </u>	
W14×30	5" x 2"	2.12.	5° x 2°	5° x 2°	2" x 2"	5g" x 2"	58" x 2"	34" x 214"	34" x 24"	34" x 24"	34" x 24"	3," x 214"	5, x 2'4"	34 x 24	34" x 2"4"	34" x 24"	34" x 24"				
W/4×38	5- x 2"	2" x 2"	5" x 2"	5" x 2"	5" x 2"	50" x 24"	58" x 24"	7. × 52.	3," x 25"	3 × 25	3, 1 25.	70° x 25°	ъ° х 25°	1' x 234"	1" x 23s	1" x 234"					
W/6x45		5" x 2"	5" x 2"	5" x 2"	5" x 2"	5' x 2'	5" x 2"	50 × 214	5 × 2'4"	50° x 24°	3. x 25.	34" x 2'5"	78 x 25	78" x 212"	10. × 25.	1" x 23,"	1" x 234"	1" x 234"	I" x 234"	1" x 234"	1" x 234"



- Quantity includes all concrete necessary for one foundation
- Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

PROP. SIGN POST

(W10X26)

PROP. SIGN POST (W10X26)

6-1-12 REVISED DESIGNED LINETE HAVE -FILE HARE I REVISED CHECKED REVISED PLOT SCOLE + DRAWN REVISED PLOT DATE 4 CHECKED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(Sheat 2 of 2) BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES SHEET HOL OF SHEETS

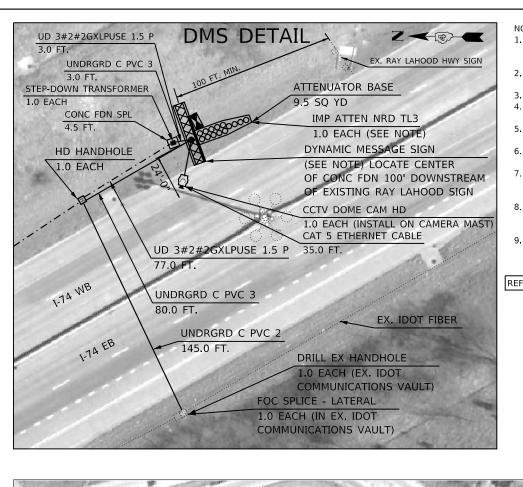
SHEETS NO. CONTRACT NO.

NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** PROPOSED SIGN INSTALLATION DETAILS - CONTINUED I-74 WB AT IL 116 (MAIN ST.) - TAZEWELL COUNTY OF SHEETS STA.

SECTION 74 D4 DYNAMIC MESSAGE SIGNS 2020 TAZEWELL 43 16 CONTRACT NO. 68E72



NOTES:

- THE CENTER OF THE PROPOSED CONCRETE FOUNDATION SHALL BE PLACED 24'-0" FROM I-74 WB EDGE OF TRAVELED WAY. THE PROPOSED CONCRETE FOUNDATION SHALL BE LOCATED TO AVOID THE EXISTING STORM SEWER.
- THE PROPOSED DMS SHALL BE PLACED 100 FT DOWNSTREAM OF THE EXISTING RAY LAHOOD HIGHWAY SIGN.
- REFER TO SHEETS 21-34 FOR THE DYNAMIC MESSAGE SIGN DETAILS.
- THE CONTRACTOR SHALL LOCATE THE ACCESS DOOR AND WALKWAY ON THE RIGHT SIDE OF THE DMS STRUCTURE (FURTHEST AWAY FROM I-74 WB TRAFFIC.)
- THE CONTRACTOR SHALL VERIFY PRESENCE AND LOCATION OF ANY AND ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- THE IMPACT ATTENUATOR SHALL BE INSTALLED ACCORDING TO THE HIGHWAY STANDARD 643001-02 AND GRADING DETAILS ON SHEET 19.
- THE STEP-DOWN TRANSFORMER SHALL BE INSTALLED 3 FT. BEHIND THE CONCRETE FOUNDATION FOR THE DMS STRUCTURE, IN THE LOCATION THAT IS BEST PROTECTED
- WORK REQUIRED TO MAINTAIN FLOW OF WATER AROUND THE PROPOSED DMS AND ATTENUATOR ARRAY WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE BID PRICE OF THE ATTENUATOR BASE.
- ATTENUATOR ARRAY AND BASE SHALL BE INSTALLED PRIOR TO STARTING WORK ON THE SIGN FOUNDATION.

REFER TO STEP-DOWN TRANSFORMER DETAIL ON SHEET 20

FIBER OPTIC CABLE SLACK DOUBLE HANDHOLE - 30 FT. HANDHOLE - 10 FT. CABINET - 10 FT. COMMUNICATIONS VAULT - 100 FT



PROP. CCTV CAMERA



EX. CONDUIT

PROP. STEP-DOWN TRANSFORMER & CONCRETE FOUNDATION

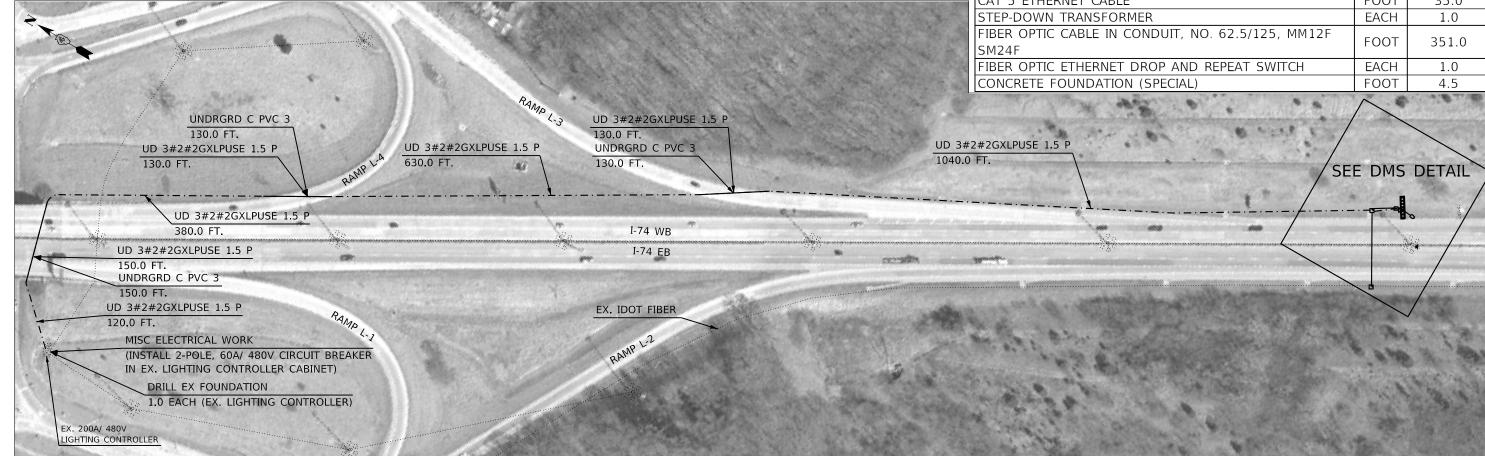
EX. HIGH MAST LIGHT TOWER EX. ELECTRICAL SERVICE

DYNAMIC MESSAGE SIGN INSTALLATION INCLUDES:

OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A - QTY. 38.7 FT. OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A - QTY. 6.3 FT. DRILLED SHAFT CONCRETE FOUNDATIONS - QTY. 6.4 CU. YD. POLE MOUNTED EQUIPMENT CABINET, TYPE B - QTY. 1.0 EACH TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN - QTY. 1.0 EACH ACCESS LADDER - QTY. 1.0 EACH

FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH - QTY. 1.0 EACH

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1.0
ATTENUATOR BASE	SQ YD	9.5
OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE III-F-A	FOOT	38.7
OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY,	FOOT	6.3
DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	6.4
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	145.0
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	493.0
HEAVY-DUTY HANDHOLE	EACH	1.0
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.2 GROUND, (XLP-	FOOT	2660.0
TYPE USE), 1 1/2" DIA. POLYETHYLENE	F001	2000.0
DRILL EXISTING FOUNDATION	EACH	1.0
DRILL EXISTING HANDHOLE	EACH	1.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
FIBER OPTIC CABLE SPLICE - LATERAL	EACH	1.0
POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	1.0
TRUSS MOUNTED LED DYNAMIC MESSAGE SIGN	EACH	1.0
ACCESS LADDER	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	35.0
STEP-DOWN TRANSFORMER	EACH	1.0
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F	ГООТ	251.0
SM24F	FOOT	351.0
FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0
CONCRETE FOUNDATION (SPECIAL)	FOOT	4.5
	W. Talley and Co.	17, 14, 18, 77, 18, 18



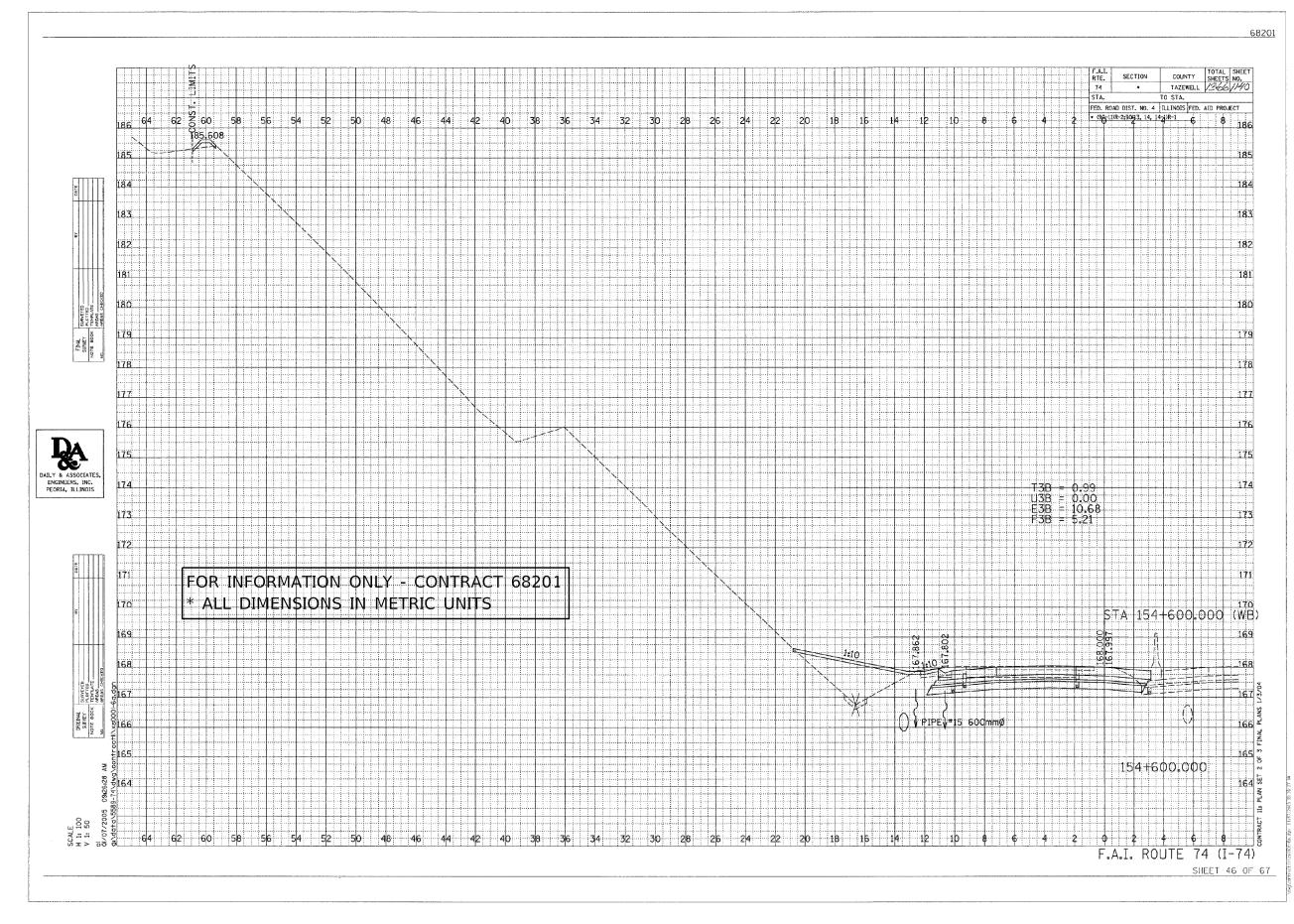
NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED DMS LOCATION #4 I-74 WB AT WASHINGTON ST. - TAZEWELL COUNTY

43 17 CONTRACT NO. 68E72



MODEL: Default

LOT SCALE = 81.9197 ' / in.

 DESIGNED REVISED

 DRAWN REVISED

 CHECKED REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING CROSS SECTION
I-74 WB AT WASHINGTON ST. - TAZEWELL COUNTY

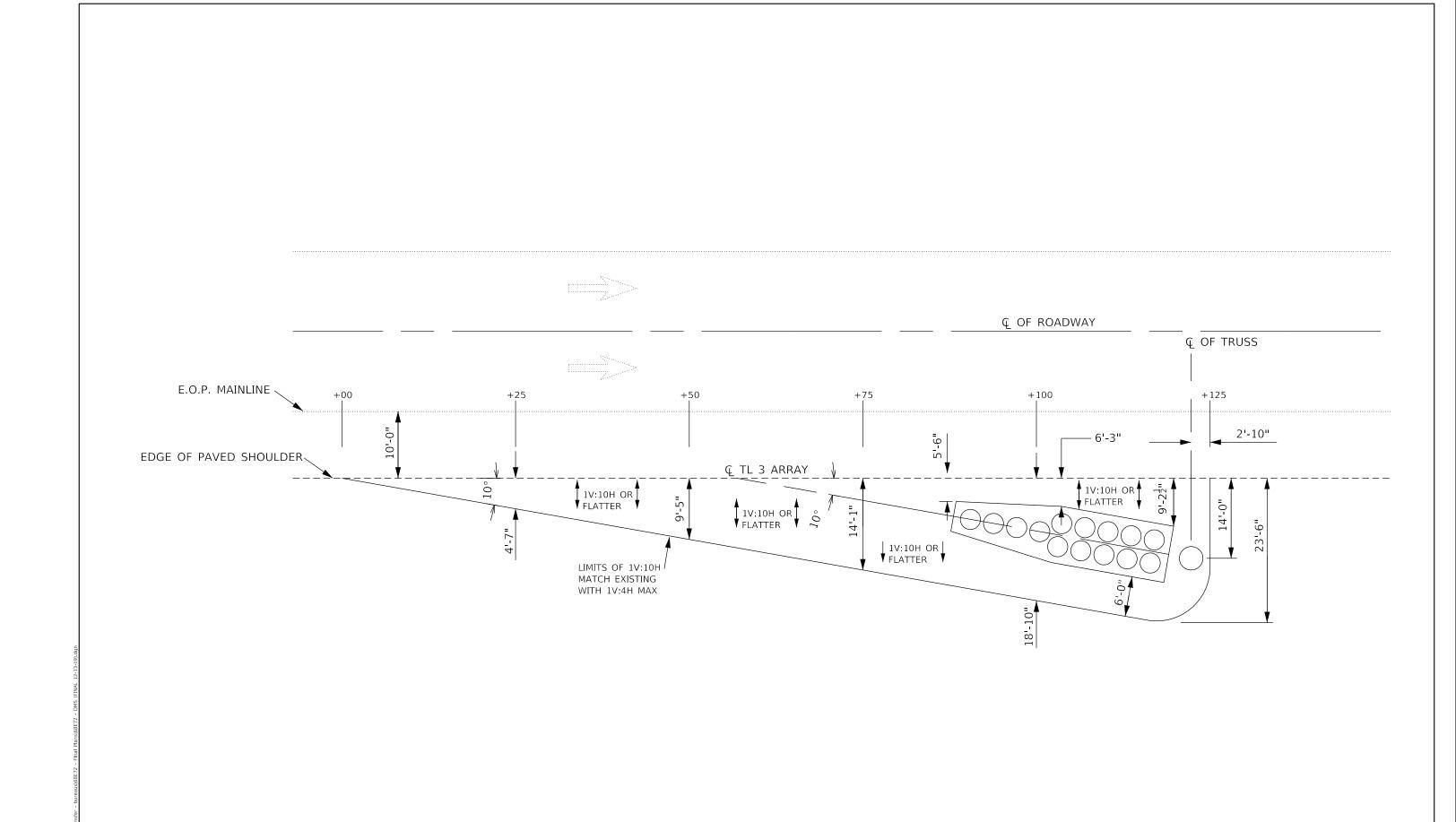
LILLINOIS FED. AID PROJECT

COUNTY TOTAL SHEETS NO. 18

COUNTY SHEETS NO. 18

TAZEWELL 43 18

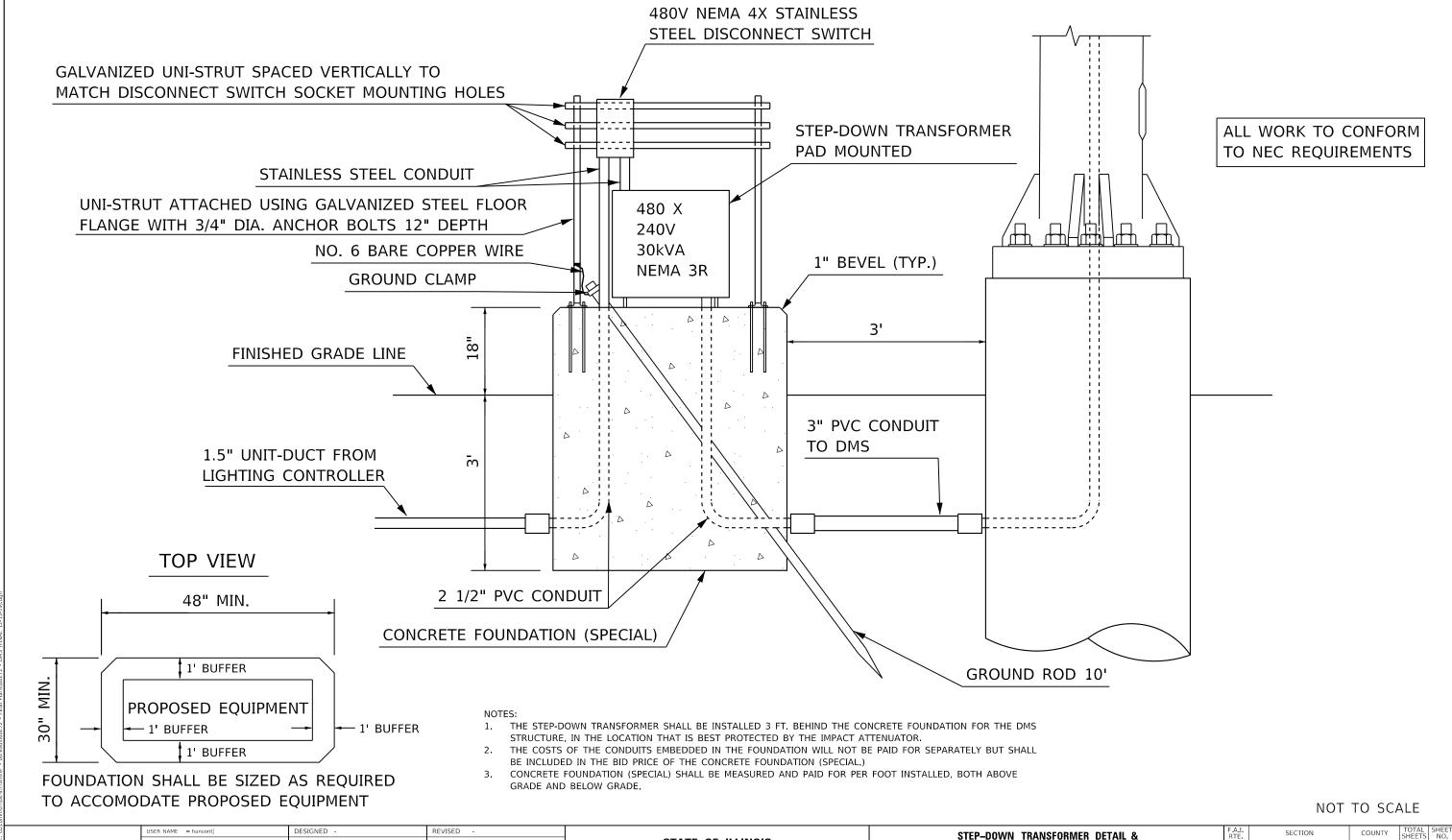
CONTRACT NO. 68E72



NOT TO SCALE

USER NAME = hansontj	DESIGNED -	REVISED -		IMPACT	ATTENU	ATORS	(NON-	REDIRE	CTIVE) TES	ST LEVEL 3	F.A.I. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS				•				74	D4 DYNAMIC MESSAGE SIGNS 2020	TAZEWELL	43	19
PLOT SCALE = 81.9197 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GK	ADING PL	AN (PR	10PUSE	בואוט חב	S LOCATIO	N #4)			CONTRAC	T NO. 68	3E72
PLOT DATE = 12/13/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHE	EETS STA	۹.	TO STA.		ILLINOIS FED. A	AID PROJECT		

STEP-DOWN TRANSFORMER & CONCRETE FOUNDATION (SPECIAL) DETAIL



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

CONCRETE FOUNDATION (SPECIAL) DETAIL

OF SHEETS STA.

43 20

CONTRACT NO. 68E72

MODEL: Default

DRAWN

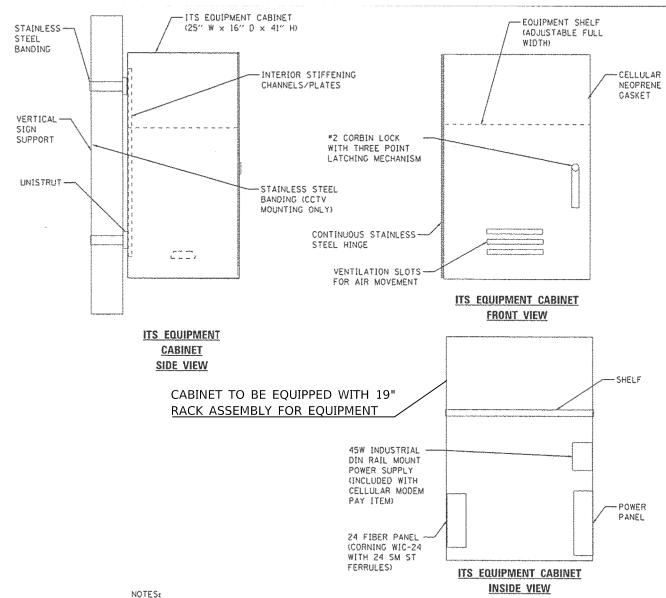
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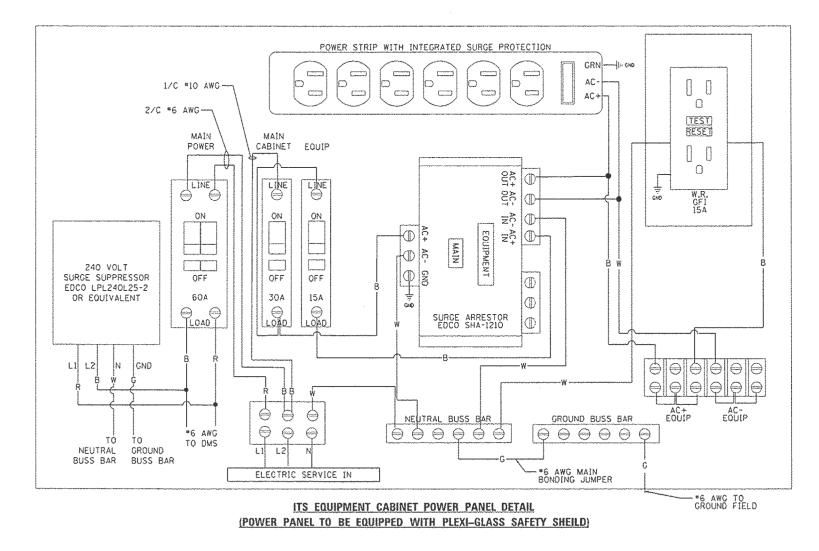
LOT SCALE = 81,9197 ' / in.

LOT DATE = 12/13/2019

REVISED

REVISED





NOTES:

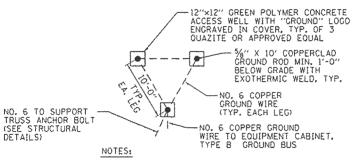
- 1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 41" (H) X 25" (W) X 16" (D). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
- 2. THE CABINET SHALL BE FURNISHED WITH ONE ADJUSTABLE HEIGHT SHELF. THREE POSITION DOOR STOP (90,120,180 DEGREES), NEOPRENE DOOR GASKET, AIR VENT LOUVERS, CONTINUOUS STAINLESS STEEL DOOR HINGE, INTERIOR STIFFENERS FOR MOUNTING, THREE POINT LATCHING MECHANISM WITH *2 CORBIN LOCK, 24 FIBER INTERCONNECT CENTER, POWER PANEL, AND ALL STAINLESS STEEL HARDWARE.
- 3. THE CABINET SHALL BE EQUIPPED WITH A THERMOSTATICALLY CONTROLLED VENTILATION FAN, 250 WATT HEATER STRIP (WITH GUARD). AND DELUXE PLEATED AIR FILTER.
- 4. THE CONTRACTOR SHALL INSTALL ALL DIN RAIL MOUNTED EQUIPMENT IN THE CABINET.
- 5. ALL ITEMS SHOWN ON THIS DRAWING (EXCEPT CELLULAR MODEM) SHALL BE INCLUDED IN THE EQUIPMENT CABINET PAY ITEM (INCLUDING ALL UNISTRUT, MTG. BRACKETS, CONDUIT/WIRE ATTACHED TO STRUCTURE & METER FITTING).
- 6. ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION, OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.

- 7. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED: R = REDBL = BLUEW = WHITEB = BLACKY = YELLOWG = GREEN
- 8. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 9. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE *12AWG STRANDED UNLESS OTHERWISE INDICATED.
- 10. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

SCALE:

11. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".





1. ACCESS WELLS SHALL BE INCLUDED IN THE EQUIPMENT CABINET PAY ITEM.

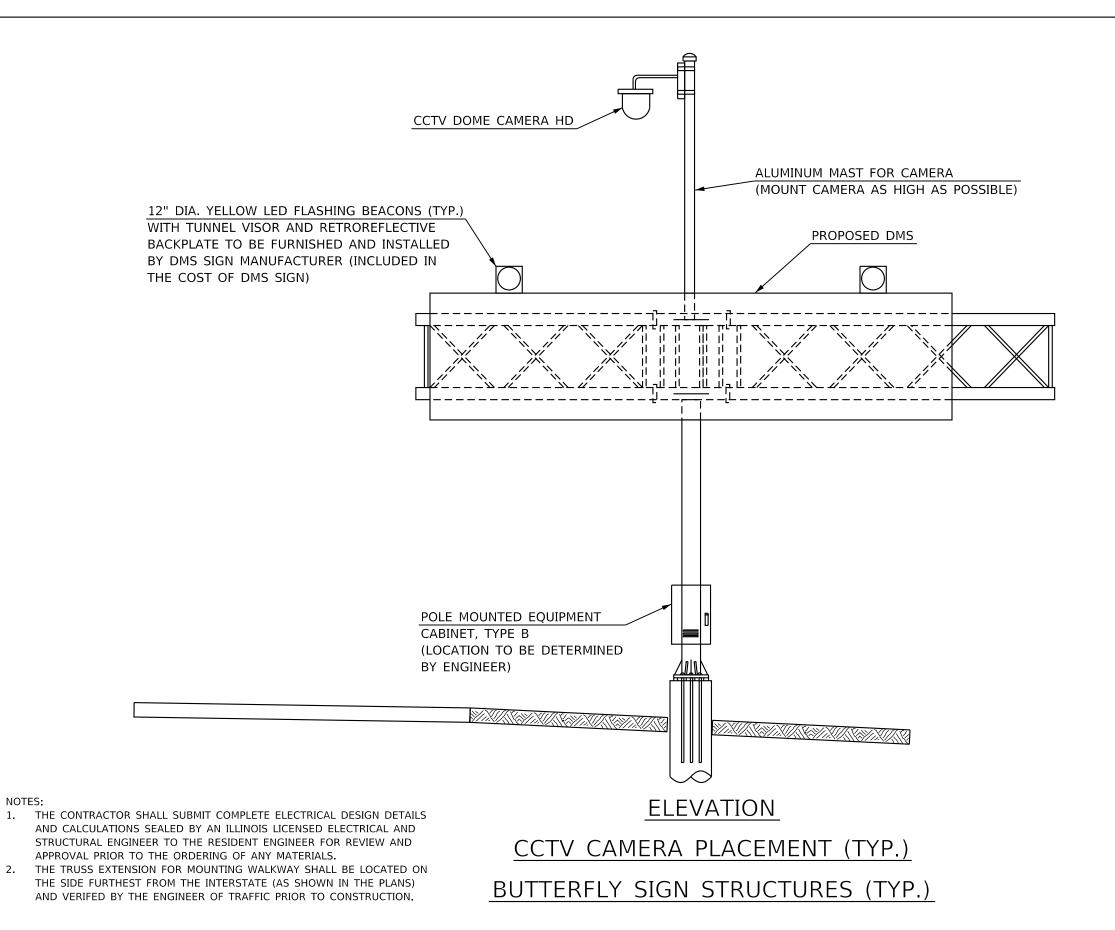
GROUND FIELD DETAIL (TYP.)

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

P	OLE MOUN	TED	EQUIPMENT	CABINET,	TYPE E	3
	CHEET	0.5	CHEETC	CTI		

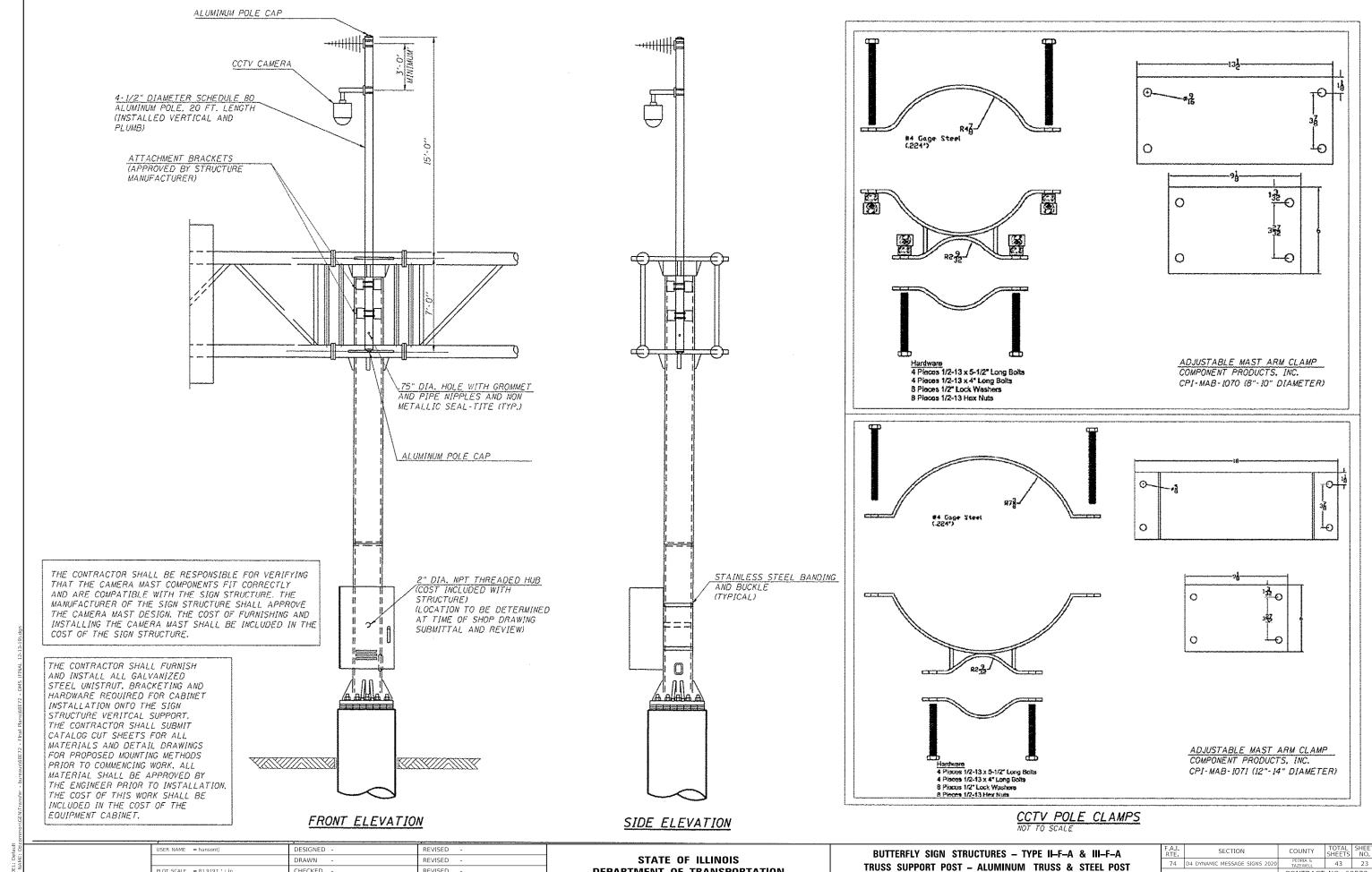
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				CONTRACT	NO. 68	3E72
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NOTES:

NOT TO SCALE

JSER NAME = hansontj DESIGNED -REVISED **BUTTERFLY TRUSS SIGN STRUCTURE -**STATE OF ILLINOIS PEORIA & 43 22 DRAWN REVISED DMS AND CCTV CAMERA DETAILS HECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 68E72 OF SHEETS STA. PLOT DATE = 12/13/2019



DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 68E72

SHEETS STA.

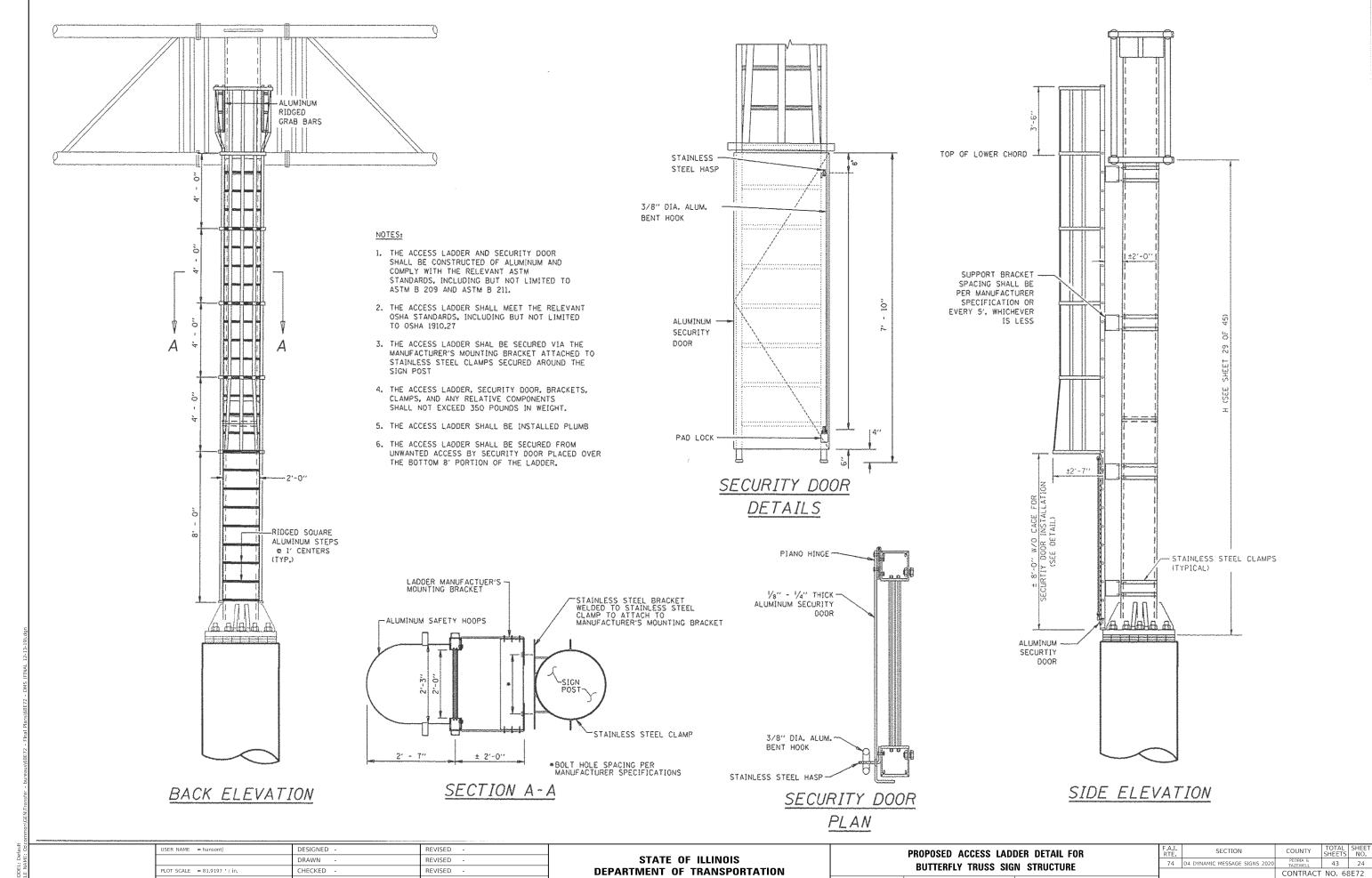
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DATE

PLOT DATE = 12/13/2019

REVISED

REVISED



REVISED

SCALE:

SHEETS STA.

PLOT DATE = 12/13/2019

DATE

** Elevation A2 and dimension D2 not used when butterfly structure is mounted on right side of the shoulder.

TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when signs are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure

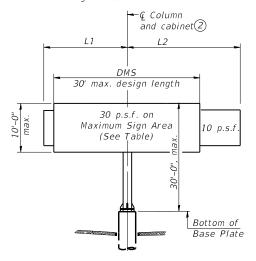
Structure Number	Station (m)	Total Butterfly Length (L)	Elev. A1 (ft)	Elev. A2 (ft)	Dim. D1	Dim. D2	Ds	Sign	Access door and walkway location (Right or Left end)
4F072I074R090.9	146+410	38'-8"	558.76	**	22'-0"	**	10'-0"	300 SQ FT	RIGHT
4F072I074R092.8	149+350	38'-8"	555.22	540.38	22'-0"	34'-0"	10'-0"	300 SQ FT	RIGHT
4F090I074L094.9	152+900	38'-8"	490.47	477.65	22'-0"	38'-0"	10'-0"	300 SQ FT	RIGHT
4F090I074L096.1	154+600	38'-8"	550.53	**	24'-0"	**	10'-0"	300 SQ FT	RIGHT

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE BUTTERFLY TYPE III-F-A	Foot	154.7
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	25.4
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	29.8

MAXIMUM TOTAL TRUSS TYPE DMS SIGN CABINET AREA III-F-A 300 Sq. Ft.

Mamimum DMS weight = 5000 LB.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

Note.

Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- After adjustments to level truss and insure adequate vertical clearance, all top and bottom leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.
- Centerline cabinet must be located at centerline of column.
 - If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to DMS Cabinet Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES FIELD UNITS f'c = 3,500 p.s.i.

fv = 60.000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W* (M183, M223 Gr. 50, or M222). Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Evebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

NOTE:

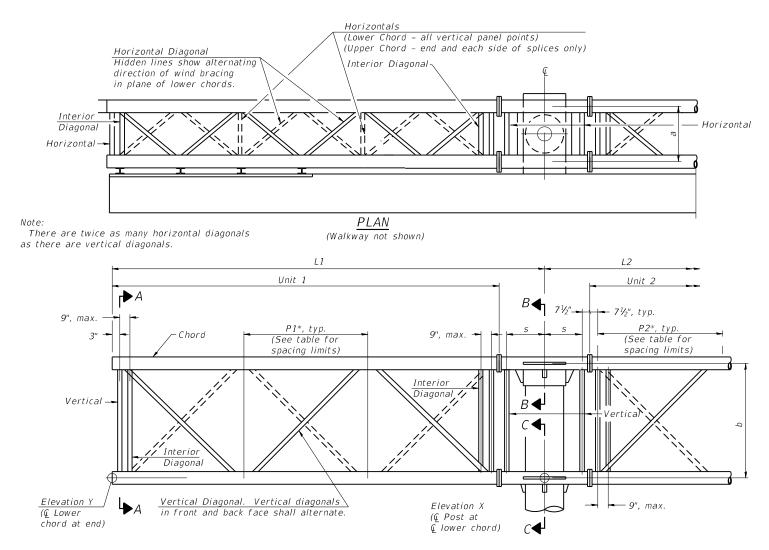
- ALL STATIONS ALONG I-74 ARE DESCRIBED USING METRIC UNITS. ELEVATIONS AND ALL OTHER DIMENSIONS ARE IN US CUSTOMARY UNITS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL STATIONS AND ELEVATIONS AND CONSULT WITH THE RESIDENT ENGINEER PRIOR TO ORDERING MATERIALS.

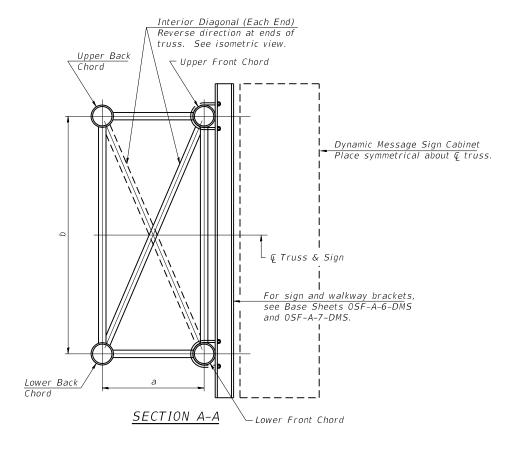
OSF-A-1-DMS 2-17-2017

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PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY **BUTTERFLY SIGN STRUCTURES - ALTERNATE PLAN & ELEVATION** 74 D4 DYNAMIC MESSAGE SIGNS 2020 43 25 FOR DMS - ALUMINUM TRUSS & STEEL POST CONTRACT NO 68E72 SHEETS STA.





ELEVATION

(Sign and walkway omitted for clarity)

TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSF-A-3-DMS

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Chi O.D.	Low. ord Wall	Vertical Ho	orizontals;
III-F-A	36"	84"	21"	48" min. to 66" max.	7"	3/8″	31/2"	3/8"

Structure Number	Station (m)	Truss Type	L1	L2	Number of Panels Unit 1	Panel Length (P1)*	Number of Panels Unit 2	Panel Length (P2)*
4F072I074R090.9	146+410	III-F-A	17'-4"	21'-4"	4	54"	3	56 "
4F072I074R092.8	149+350	III-F-A	17'-4"	21'-4"	4	54"	3	56"
4F090I074L094.9	152+900	III-F-A	17'-4"	21'-4"	4	54"	3	56"
4F090I074L096.1	154+600	III-F-A	17'-4"	21'-4"	4	54"	3	56"

*P = $\frac{L-s-1'-6''}{\# Panels}$

NOTE:

- 1. ALL STATIONS ALONG I-74 ARE DESCRIBED USING METRIC UNITS. ELEVATIONS AND ALL OTHER DIMENSIONS ARE IN US CUSTOMARY UNITS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL STATIONS AND ELEVATIONS AND CONSULT WITH THE RESIDENT ENGINEER PRIOR TO ORDERING MATERIALS.

OSF-A-2-DMS 2-17-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

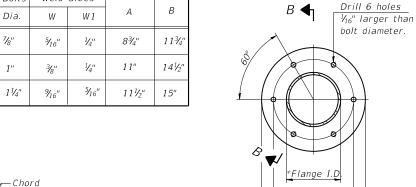
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l		ΔΙΙΙΝ	MUNIN	TRUSS &	STEEL POS	ST.	74	D4 DYNAMIC MESSAGE SIGNS 20	20 PEORIA & TAZEWELL	43	26
L		ALUMINUM THOSS & STEEL 1031							CONTRACT	F NO. 68	8E72
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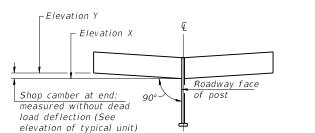
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SHOP CAMBER TABLE

Unit Length L1 or L2	Shop Camber at End
15'	11/2"
16'-17'	1¾,"
18'-20'	2"
21'-22'	21/4"
23'-25'	21/2"
26'-27'	2³/₄"
28'-30'	3"
31'-32'	31/4"
33'-35'	3½"







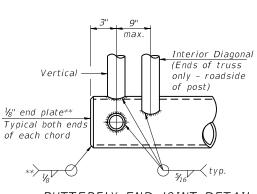
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Horizontal Diagonal

> SPLICING FLANGE ASTM b221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651

* To fit O.D. of Chord with maximum gap of $\frac{1}{16}$ ".

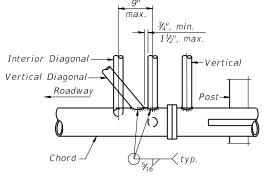




BUTTERFLY END JOINT DETAIL

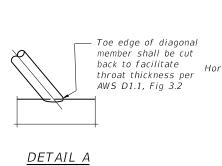
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.

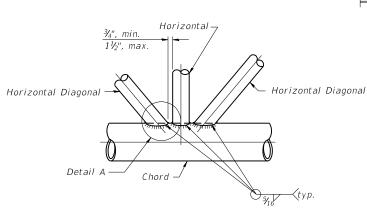
1/2" Ø Drain hole in end plate / drive-fit cap.



/Horizontal (Lower Chord Only)

POST END JOINT DETAIL





SCALE:

TRUSS INTERIOR JOINT DETAIL

See Table

Note 1

Not

SECTION B-B

1 Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.

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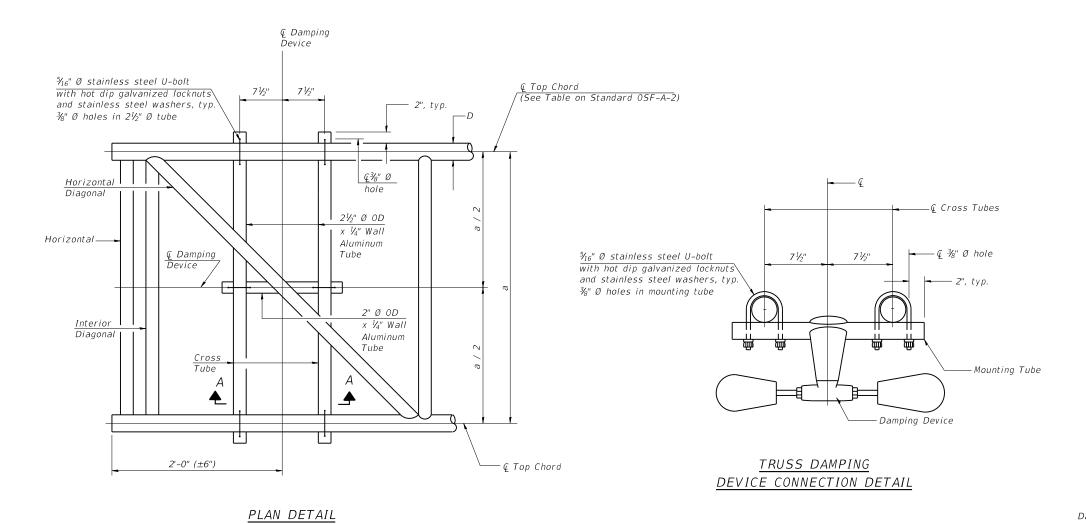
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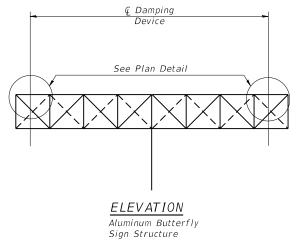
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BU			TRUCTURE TRUSS &		
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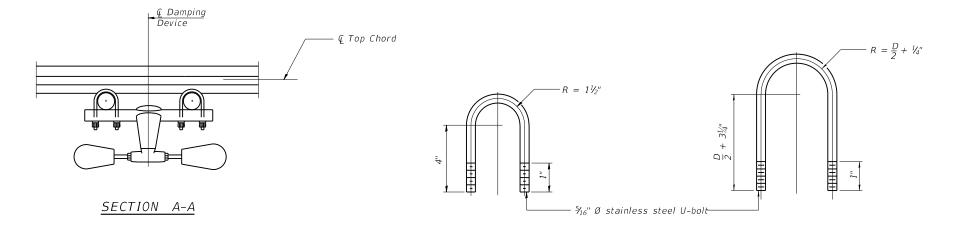
GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-

29" minimum between ends of weights)

Materials: Aluminum tubes shall be ASTM B221 alloy 6061

temper T6



<u>DAMPING DEVICE MOUNTING</u>

<u>TUBE U-BOLT DETAIL</u>

(Typical)

TOP CHORD TO CROSS TUBE

U-BOLT DETAIL

(Typical)

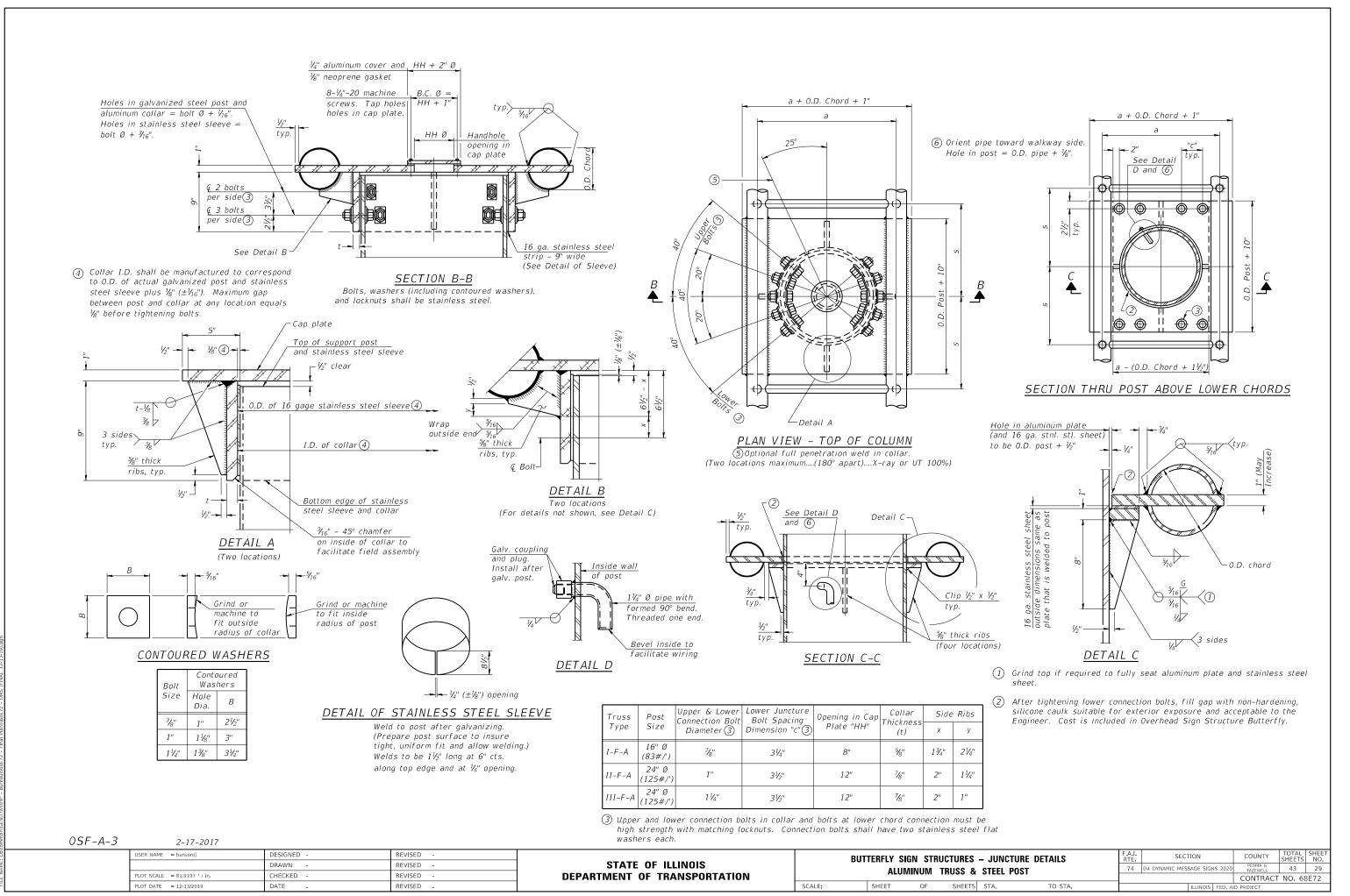
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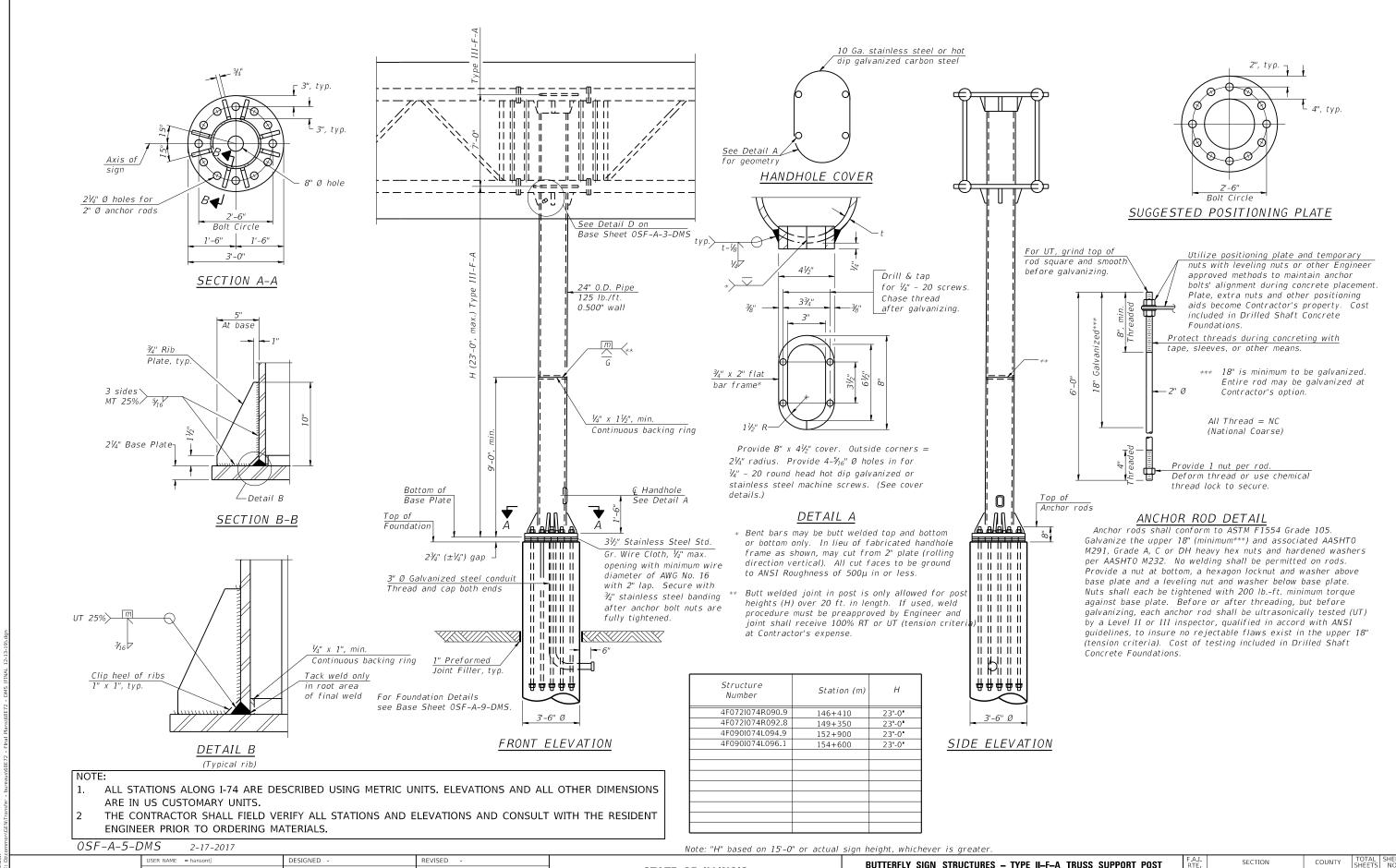
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	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	BUTTERFLY	TRUCTURE	F.A.I. RTE			COUNTY	TOTAL SHEETS	SHEET NO.			
	DAMPING DEVICE						AGE SIGI	NS 2020	PEORIA & TAZEWELL	43	28
	<i>D7</i> .111						CONTRACT	NO. 68	3E72		
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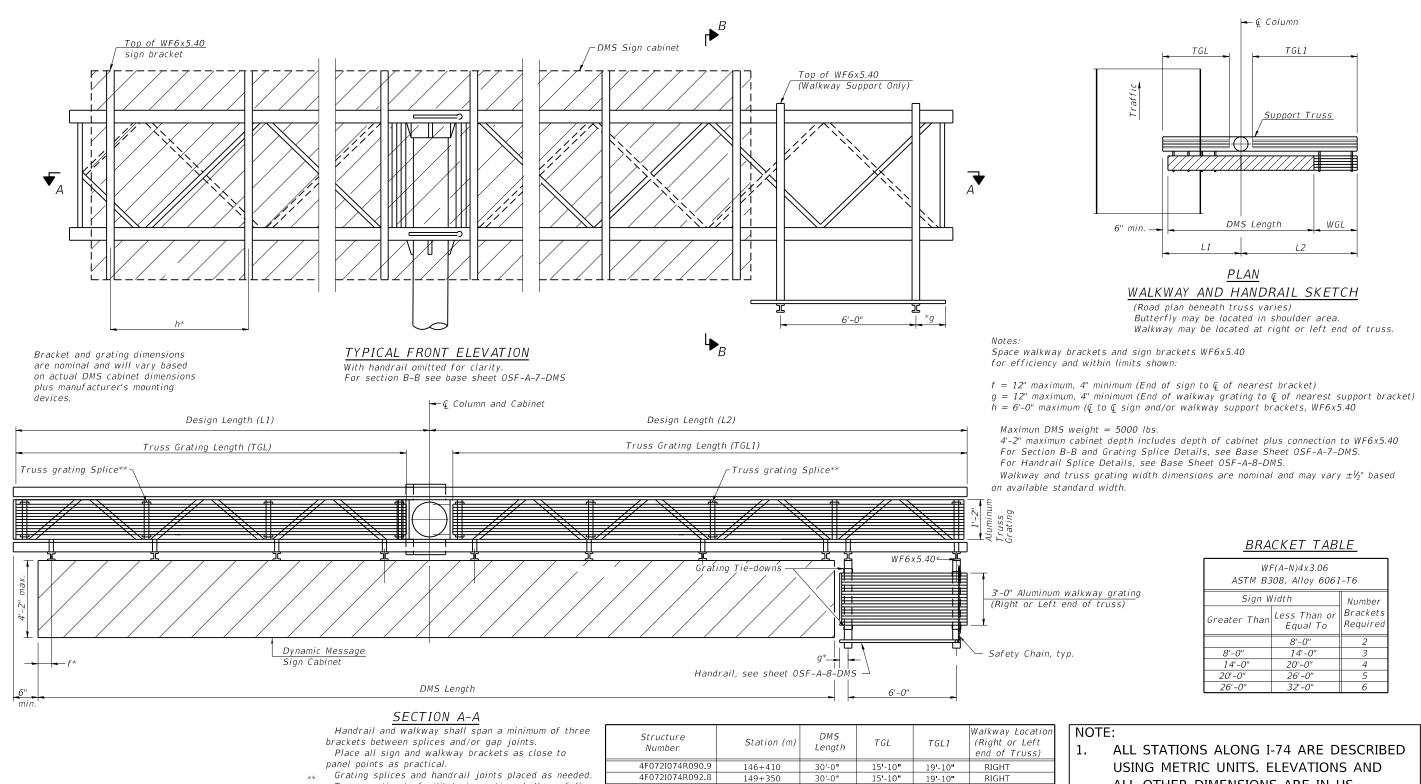
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 PLOT DATE
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Truss grating to facilitate inspection shall run full length (center to center of support frames) ± 12 " on overhead trusses. Cost of truss grating is included in Butterfly Sign Structure.

 $TGL = L1 (or L2) - (\frac{Post \ 0.D}{2} + 6")$

Structure Number	Station (m)	DMS Length	TGL	TGL1	Walkway Location (Right or Left end of Truss)
4F072I074R090.9	146+410	30'-0 "	15'-10"	19'-10"	RIGHT
4F072I074R092.8	149+350	30'-0"	15'-10"	19'-10"	RIGHT
4F090I074L094.9	152+900	30'-0"	15'-10"	19'-10"	RIGHT
4F090I074L096.1	154+600	30'-0"	15'-10"	19'-10"	RIGHT

SCALE:

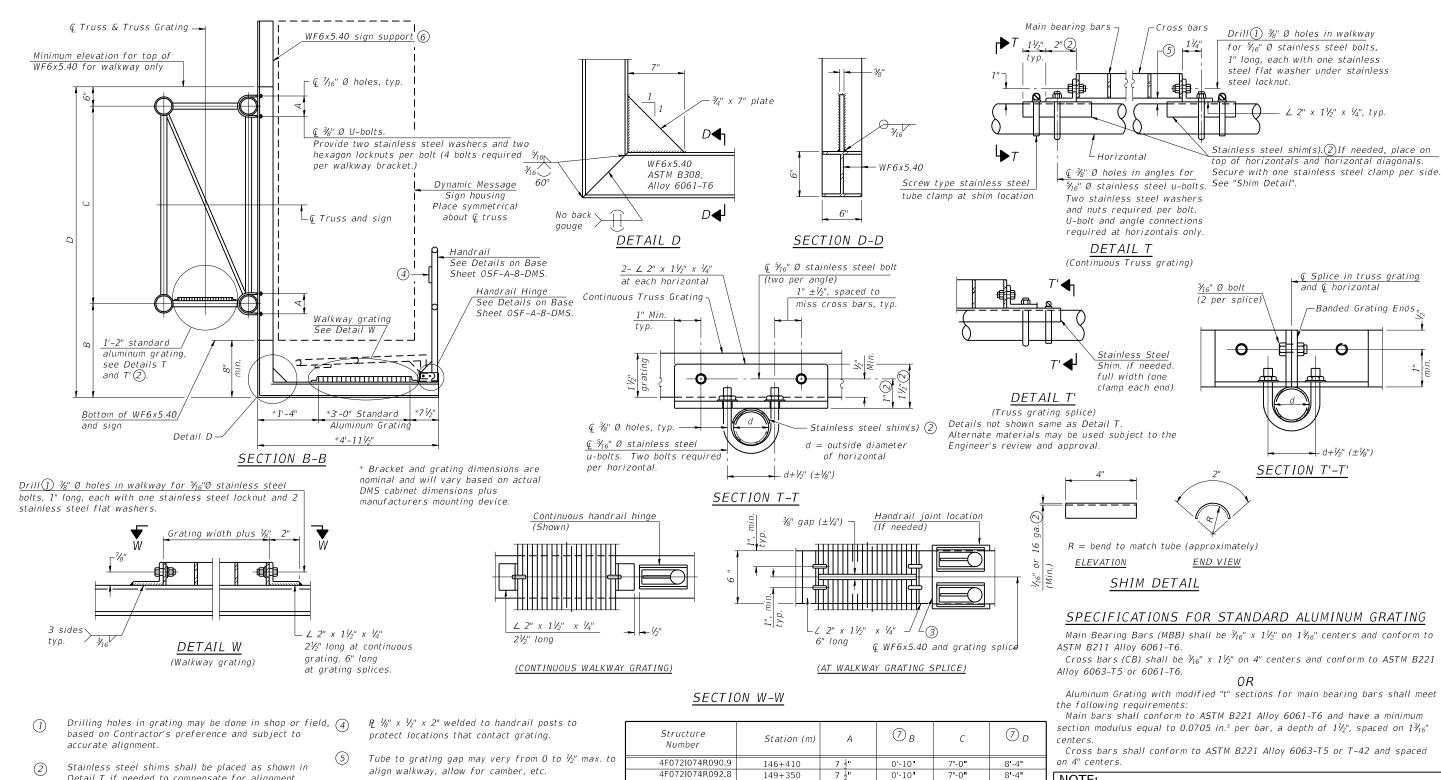
- ALL OTHER DIMENSIONS ARE IN US CUSTOMARY UNITS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL STATIONS AND ELEVATIONS AND CONSULT WITH THE RESIDENT ENGINEER PRIOR TO ORDERING MATERIALS.

OSF-A-6-DMS 2-17-2017

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BUTTERFLY	SIGN S	TRUCTUR	ies –	ALTERNATE	F.A.I. RTE	SECTION COUNTY		TOTAL SHEETS	SHEET NO.
ALUMINUM	I WAIK	WAY DE	2 II A T	FOR DMS	74	D4 DYNAMIC MESSAGE SIGNS 2020	PEORIA & TAZEWELL	43	31
ALOMINON	***************************************	WAT DE	IAILO	TON DINO			CONTRACT	NO. 68	3E72
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSF-A-8) Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolt must be stainless steel or hot dip galvanized high strength per IDOT specifications.

Based on actual sign height, Ds, given on OSF-A-1-DMS.

	Structure Number	Station (m)	А	⑦ _B	С	O D	2
0	4F072I074R090.9	146+410	7 ½"	0'-10"	7'-0"	8'-4"	c
	4F072I074R092.8	149+350	7 ½"	0'-10"	7'-0"	8'-4"	Ιг
	4F090I074L094.9	152+900	7 ½"	0'-10"	7'-0"	8'-4"	
	4F090I074L096.1	154+600	7 ½"	0'-10"	7'-0"	8'-4"	
15							
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NOTE:

ALL STATIONS ALONG I-74 ARE DESCRIBED USING METRIC UNITS. ELEVATIONS AND ALL OTHER DIMENSIONS ARE IN US CUSTOMARY UNITS.

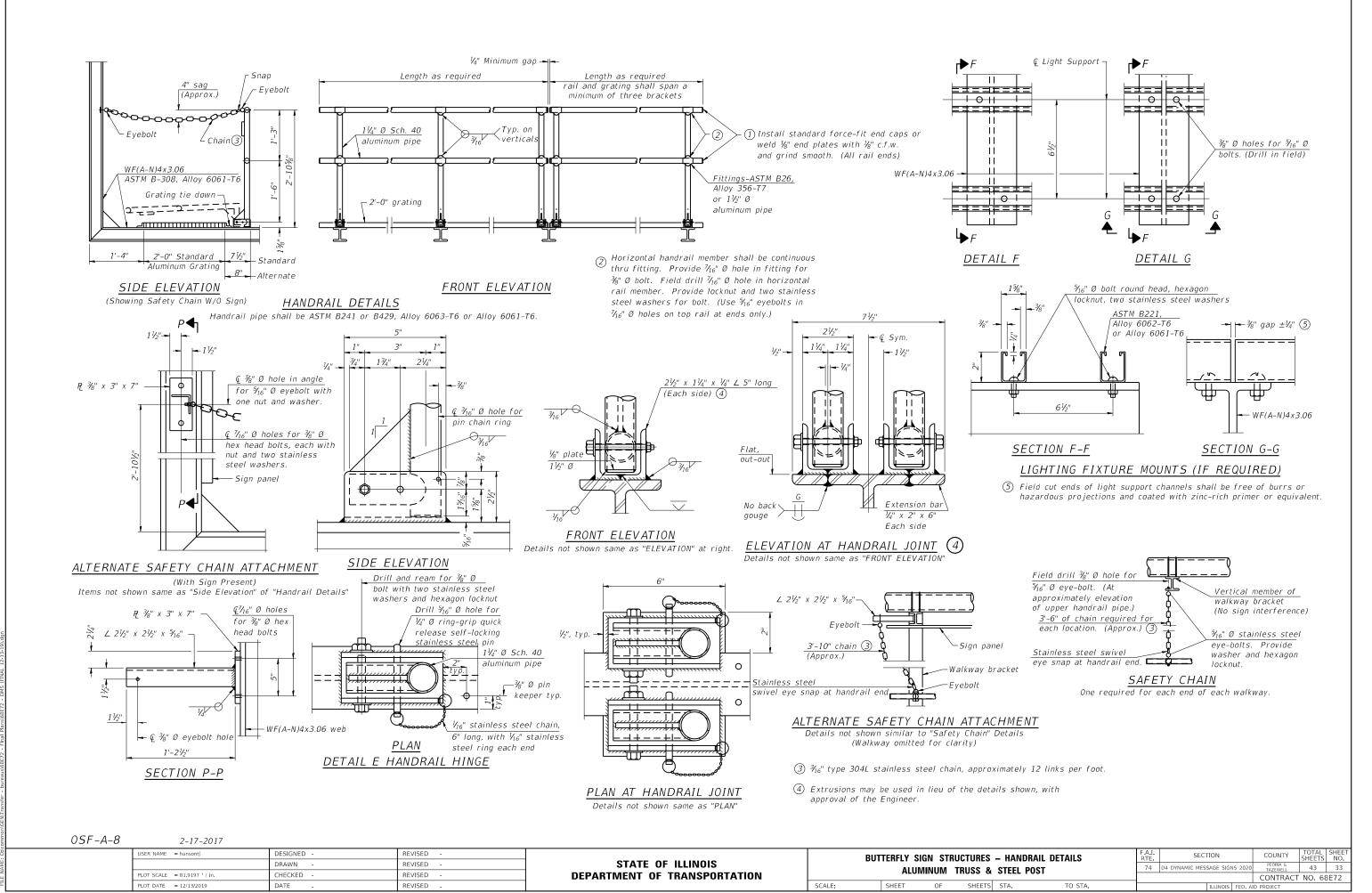
THE CONTRACTOR SHALL FIELD VERIFY ALL STATIONS AND ELEVATIONS AND CONSULT WITH THE RESIDENT ENGINEER PRIOR TO ORDERING MATERIALS.

OSF-A-7-DMS

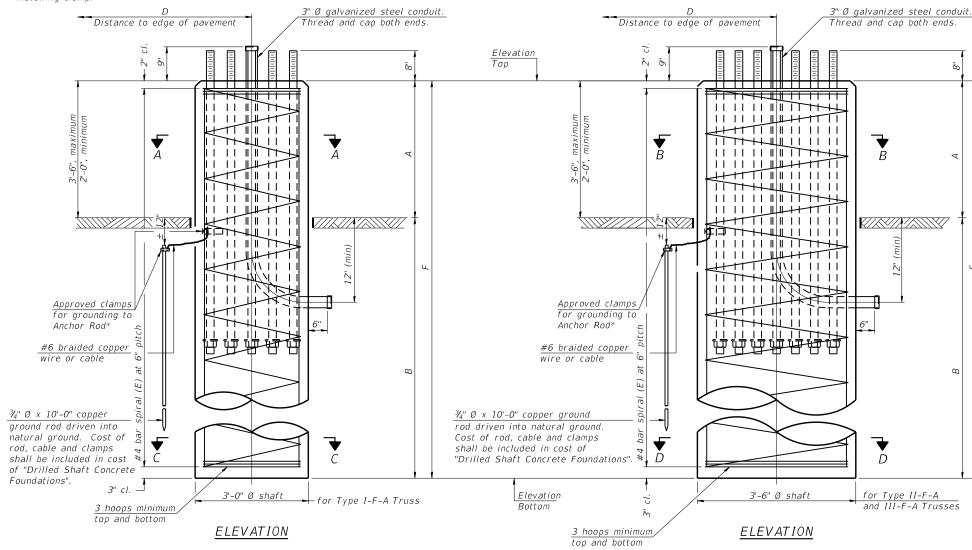
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	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

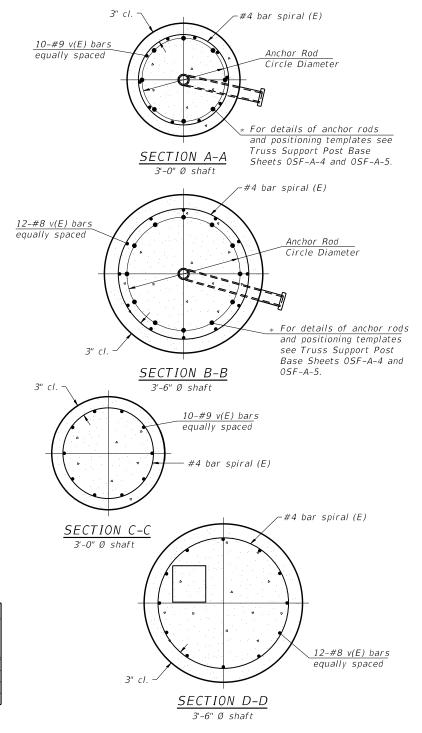
BUTTE	RFLY SIGN	STRUC	CTURES -	ALTERNA	F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DETAII	LS FOR DN	IS _ ΔI	иминим	TRUSS 8	74	D4 DYNAMIC MESSAGE SIGNS 202	0 PEORIA & TAZEWELL	43	32	
D							CONTRACT	NO. 68	3E72	
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



MODEL: Default



FOUNDATION DESIGN TABLE Maximum Anchor Rods Shaft Maximum Anchor Roo Post Base Diameter Circle Diamete Cantilever otal Sign Area Diamete. Type Sheet Length (ft) (sq ft) (in) (in) (in) I-F-A OSF-A-4 200 3.0 II-F-A OSF-A-5 400 3.5 III-F-A OSF-A-5 400 3.5



NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureauof Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

NOTE:

- . ALL STATIONS ALONG I-74 ARE DESCRIBED USING METRIC UNITS. ELEVATIONS AND ALL OTHER DIMENSIONS ARE IN US CUSTOMARY UNITS.
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FOUNDATION DATA TABLE									
Structure Number	Station (m)	Truss Type	Shaft Diameter	Elevation Top (ft)	Elevation Bottom (ft)	Α	В	F	Class DS Concrete Cubic Yards
4F072I074R090.9	146+410	III-F-A	3'-6"	557.38	535.38	2'-0"	20'-0"	22'-0"	7.8
4F072I074R092.8	149+350	III-F-A	3'-6"	552.97	530.97	2'-0"	20'-0"	22'-0"	7.8
4F090I074L094.9	152+900	III-F-A	3'-6"	488.42	466.42	2'-0"	20'-0"	22'-0"	7.8
4F090I074L096.1	154+600	III-F-A	3 -6	554.93	536.93	2'-0"	16 -0	18'-0"	6.4

0SF-A-9

2-17-2017

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BL	JTTERFLY	SIGN S	F.A.I. RTE	SECTION			
	ΔIU	MINUM	74	D4 DYNAMIC MESSAGE SIGNS 20			
			111000 u	OILLL	1 001		
	СПСЕТ	OF	сыссте	CTA	TO CTA		W. WOOLS SEE

PROPOSED DMS LOCATION: STA. 146+410* 72.0 FT RT.

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	` /

Illinois Department of Transportation

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Division of Highways ILLINOIS_DOT	Jitalio	71.1				O LOO	Date6/3/02
ROUTEFAI-74	DESC	CRIPTION	۱	Н	igh Mast Light Pole Fou	ndation LO	GGED BY DBR
SECTION 72-6,7,8,9-1,90-11,90 COUNTY Peoria & Tazewell 1				, SEC. Latitu	ıde , Longitude	HAMMER TYPE	AUTO
STRUCT. NO	— II	D B	U	M O	Surface Water Elev Stream Bed Elev	ft	
BORING NO. HMSB-041 Station 146+349 Offset 13.1 ft Lt of EB E Ground Surface Elev. 551.3	: I	P O T W H S ft) (/6")	Qu (tsf)	I S T (%)	Groundwater Elev.: First Encounter Upon Completion After 24 Hrs.	none ft none ft not taken ft	
No Sample Taken		_					
Brown Fine SAND w/ trace of gravel	549.84	8 - 10 - 7		7			
Brown / Gray SANDY GRAVEL w/ trace of clay	547.34	13 5 21 50		7			
Gray / Dark Gray GRAVEL w/ some silty clay / silt	544.84	36 27 31		3			
Light Brown / Gray SILTY CLAY w/ some sand	542.34		1.0 P	11			
Brown CLAY LOAM	539.84	6	2.3	11			
Brown / Gray CLAY LOAM	537.34	10	S	15			
End of Boring	535.84 	. ₁₅ 5 13	1.2 S	15			
	_	\exists					

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)

*STATIONING ALONG I-74 IS IN METRIC UNITS

PROPOSED DMS LOCATION: STA. 146+410* 72.0 FT RT.



No Sample Taken

Illinois Department of Transportation

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date ___5/30/02

ROUTE FAI-74 DESCRIPTION High Mast Light Pole Foundation LOGGED BY DH, DLR **SECTION** 72-6,7,8,9-1,90-11,90-12,13,14 **LOCATION** , **SEC.** , **TWP.** , **RNG.**

Latitude Longitude COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

Surface Water Elev. STRUCT. NO. Ε L С 0 Stream Bed Elev. Station Р S 0 Т W S BORING NO. ___ HMSB-042 Groundwater Elev.: Н Qu Т S Station 146+487.5 First Encounter none ft 9.8 ft Lt of EB BL Offset Upon Completion _ none ft ft (ft) (/6") (tsf) (%) Ground Surface Elev. 559.00 After 24 Hrs. not taken ft

558.00 Brown SANDY LOAM thin clay loam seam @ 2.5'(.76m) 13 15 -5 5 551.50 Gray CLAY LOAM TILL 1.9 -10 6 S 3 2.1 13 5 В 1.9 -15 4 2.1 4 В 3 3.7 539.00 -20 5 В

End of Boring
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)

*STATIONING ALONG I-74 IS IN METRIC UNITS

JSER NAME = hansontj DESIGNED -REVISED DRAWN REVISED HECKED REVISED PLOT DATE = 12/13/2019 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SOIL BORING LOGS - PROPOSED DMS LOCATION #1 **1**−74 & NEBRASKA AVE. DMS SHEETS STA. TO STA. SECTION PEORIA & 43 35 CONTRACT NO. 68E72

PROPOSED DMS LOCATION: STA. 149+378* 74.0 FT RT.

Illinois Departmen of Transportation

SOIL BORING LOG

Page 1 of 1

Division of Highways ILLINOIS_DOT										Date	3/1	1/02
ROUTEFAI-74	DESC	ÇRII	PTION	ı	(Bet	Retaining Wall 42 tween Ramp F-2 & SB	! Knoxville)	Lo	OGG	ED BY	D	PS
SECTION 72-6,7,8,9-1,90-11,90	-12,13,14	L	OCAT	ON _	, SEC.	, TWP. , RNG. ,						
COUNTY Peoria & Tazewell D	RILLING I	MET	THOD			HSA	_ HAMMER	TYPE		Αl	JTO	
STRUCT. NO. 072-8586 Station MAINLINE STATIO	NING	D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.		_ ft _ ft	D E P	B L O	U C S	M O I
BORING NO. RWF2-17A Station 149+225.4 Offset 37.4 ft Rt of EB I-74 Ground Surface Elev. 551.26	4 BL	T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After 24 Hrs.	523.5		H (ft)	W S (/6")	Qu (tsf)	S T (%)
No Sample taken 046m(0-1.5')	<u> </u>			, ,		Brown SILTY CLAY L		_ ''	_	6	P	
	549.76	-				(continued)		529.76			9);	
Brown SAND & GRAVEL		\neg	3		5	Lt Brown SILTY LOA	М	529.01		1 2	0.7 B	22
	_	\exists	1			Brown/Gray CLAY LC	DAM TILL		_	3	1.1	16
	547.26	\dashv							_		_B_/	
Brown CLAY LOAM w/gravel and coal fragments			1	4.0	10	Free Water @ 7.32	m(24.0')			3		40
w/graver and coar fragments	-	-5	4	1.0 B	13				-25	3 6	1.7 B	19
	544.76	\exists						524.76				
Brown SANDY CLAY LOAM w/gravel seams		_	1 1 3	0.4 S	17	Gray CLAY LOAM TI	LL	024.10	, _	3 4 6	2.3 B	17
	_	\exists		3		-			_		В	
Dk Gray LOAM	542.26▼	-	1	:						3		
w/gravel and coal fragments	_	-10	1 8		68				-30	6 9	2.5 B	17
	539.76											
Dk Gray SILTY CLAY LOAM		\neg	1	0.2	27					4 6	2.9	14
	_	\exists	4	S						8	B	
	537.26	\dashv		;					_			
Brown/Gray SILTY CLAY			2	2 1	24				_	4	27	45
	_	-15	5 8	3.1 B	24			515.76	35	5 7	2.7 B	15
	_	\dashv				End of Boring			_			
	_		3						_			
		\dashv	3 6						_			
	E22 25											
Brown SILTY CLAY LOAM	532.26	\exists	2						_			
		-20	4	0.1	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)

*STATIONING ALONG I-74 IS IN METRIC UNITS

PROPOSED DMS LOCATION: STA. 149+378* 74.0 FT RT.

Illinois Department of Transportation

FAI-74

ROUTE

SOIL BORING LOG

High Mast Light Pole Foundation

Page 1 of 1

Date __11/20/02

LOGGED BY DBR

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG. Latitude , Longitude COUNTY Peoria & Tazewell DRILLING METHOD HAMMER TYPE AUTO

DESCRIPTION

D В STRUCT. NO. __ Surface Water Elev. E P C L 0 Station Stream Bed Elev. S 0 W S HMSB-065 Groundwater Elev.: S Qu T 149+397 First Encounter none ft 26.6 ft LT EB BL Upon Completionfilled @ comp. ft

BORING NO. Station Offset ft (ft) (/6") (tsf) (%) Ground Surface Elev. 543.21 After 24 Hrs. NOT TAKEN ft PCC Pavement core 0-.254m 542.38 No sample taken 540.21 Brown/Gray SANDY CLAY LOAM 19 2.0 24 Р 15 1.3 5 21 Ρ 535.21 13 Dark Brown to Brown SANDY GRAVEL 25 5 w/tr of clay 25 10 10 17 3 6 14 25 44 45 526.21 End of Boring

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)

*STATIONING ALONG I-74 IS IN METRIC UNITS

USER NAME = hansontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 81.9197 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/13/2019	DATE -	REVISED -

STATI	E 01	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

SOIL	OIL BORING LOGS - PROPOSED DMS LOCATION #2						F.A.I. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	I.	_7/1 %.	CIEN UVK	AVE D	MS		74	D4 DYNAMIC MESSAGE SIGI	NS 2020	PEORIA & TAZEWELL	43	36
	I–74 & GLEN OAK AVE. DMS									CONTRACT NO. 68E72		
	SHEET	OF	SHEETS	STA	TO S	ΤΛ.		THIMOTE	L CCD AL	D DDOIECT		

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(44)	•
/ (A)	(
	D

Brown CLAY LOAM

Illinois Department of Transportation Division of Highways ILLINOIS DOT

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

AUTO

	Division of Highways			Date _.	10/31/02
ROUTE	FAI-74	DESCRIPTION	High Mast Light Pole Foundation	LOGGED BY	DBR

HSA COUNTY Peoria & Tazewell DRILLING METHOD HAMMER TYPE

STRUCT. NOStation		D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.		_ ft _ ft	D E P	B L O	U C S	M O I
BORING NO. HMSB-088 Station 152+864	-	T H	W S	Qu	S T	Groundwater Elev.: First Encounter	none	ft	T H	W S	Qu	S T
Offset 101.7 ft Lt of EB BL Ground Surface Elev. 478.02	ft	(ft)	(/6")	(tsf)	(%)	Upon Completion After <u>24</u> Hrs.	none 461.2	_ ft _ ft⊻	(ft)	(/6")	(tsf)	(%)
NO SAMPLE TAKEN 0457m								457.52		10	В	

NO SAMPLE TAKEN 0437111					437.32	10		i
				End of Boring				ı
	476.52							l
Light Brown SANDY GRAVEL		11			_			l
	_	14	7			1		l
		11			_	1		l
	_					1		ı
	474.02				_	1		l

0.8

8 Ρ 471.52 Brown SANDY CLAY LOAM 2 0.3 16 2 Р

469.02 Gray CLAY LOAM TILL 1.9 7 В

5.0 10 8 S 5 -20 7 5.6 11

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)

*STATIONING ALONG I-74 IS IN METRIC UNITS

PROPOSED DMS LOCATION: STA. 152+900* 80.0 FT LT.

*STATIONING ALONG I-74 IS IN METRIC UNITS

SCALE:

JSER NAME = hansontj DESIGNED -REVISED DRAWN REVISED CHECKED REVISED PLOT DATE = 12/13/2019 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SOIL BORING LOGS - PROPOSED DMS LOCATION #3 I-74 & IL 116 (N. MAIN ST.) OF SHEETS STA. TO STA.

SECTION PEORIA & 43 37 CONTRACT NO. 68E72



Illinois Department of Transportation

SOIL BORING LOG

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

Date 10/30/02 FAI-74 High Mast Light Pole Foundation DESCRIPTION LOGGED BY ___DBR

547.68

COUNTY Peoria & Tazewell DRILLING METHOD HAMMER TYPE AUTO

STRUCT. NO. Station		- -	D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.		ft ft
BORING NO.	HMSB-108		Т	w		S	Groundwater Elev.:		
Station	154+611	_	Н	S	Qu	Т	First Encounter	none	ft
Offset	11.5 ft LT EB BL						Upon Completion	none	ft
Ground Surf	face Elev. 549.18	ft	(ft)	(/6")	(tsf)	(%)	After 24 Hrs.	**none	ft

S

NO SAMPLE TAKEN 0-.457m

Gray CLAY LOAM TILL 9 3.1 10

> 20 4.4 12 21 S

18 4.4 10 22 S

3.1 10

S

10 S 9 4..38 9

9

64

36@2

535.18

534.01 _-15

9

Light Gray SILTY SHALE

**No H2O-hole collapsed @ 2.80m End of Boring

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)

*STATIONING ALONG I-74 IS IN METRIC UNITS

JSER NAME = hansontj DESIGNED -REVISED DRAWN REVISED CHECKED REVISED PLOT DATE = 12/13/2019 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** SOIL BORING LOG - PROPOSED DMS LOCATION #4 I-74 & WASHINGTON ST. DMS OF SHEETS STA. TO STA.

BBS, form 137 (Rev. 8-99)

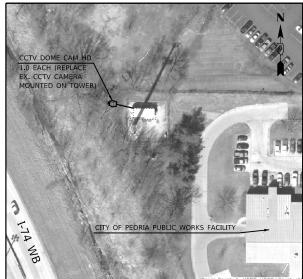
SCALE:

SECTION PEORIA & 43 38 CONTRACT NO. 68E72

I-74 @ STERLING AVE. ITS CABINET



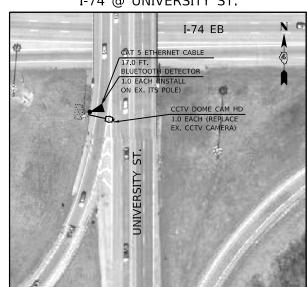
I-74 @ DRIES LN. TOWER



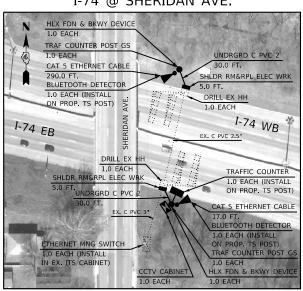
I-74 @ FORREST HILL AVE.



I-74 @ UNIVERSITY ST.



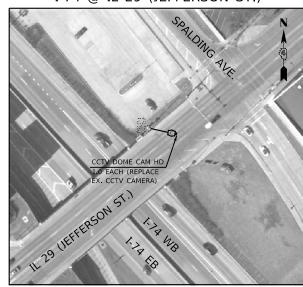
I-74 @ SHERIDAN AVE.



I-74 @ IL 40 (KNOXVILLE AVE.)/ PENNSYLVANIA AVE.



I-74 @ IL 29 (JEFFERSON ST.)



C PROP. CCTV CAMERA

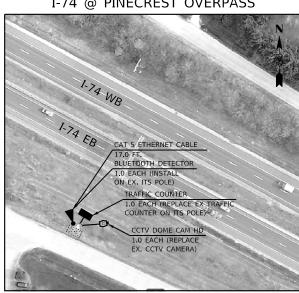
PROP. TRAFFIC COUNTER

PROP. SHOULDER REMOVAL & REPLACEMENT FOR ELECTRICAL WORK PROP. CONDUIT PVC

I-74 WB RAMP @ WASHINGTON ST.



I-74 @ PINECREST OVERPASS



BILL OF MATERIALS UN
DR
CLC
TRA
CLC
ETH
TRA
CA
HEI
BLU
SHO
WC
FIB

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
NDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	60.0
RILL EXISTING HANDHOLE	EACH	2.0
LOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	7.0
RAFFIC COUNTER	EACH	5.0
LOSED CIRCUIT TELEVISION CABINET	EACH	1.0
THERNET MANAGE SWITCH	EACH	2.0
RAFFIC COUNTER POST, GALVANIZED STEEL	EACH	2.0
AT 5 ETHERNET CABLE	FOOT	375.0
ELIX FOUNDATION AND BREAKAWAY DEVICE	EACH	2.0
LUETOOTH DETECTOR	EACH	6.0
HOULDER REMOVAL AND REPLACEMENT FOR ELECTRICAL	FOOT	10.0
/ORK	1001	10.0
IBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	1.0

1. THE CONTRACTOR SHALL DELIVER ALL EXISTING CCTV CAMERAS AND TRAFFIC COUNTERS TO THE IDOT TRAFFIC BUILDING AT 1025 W. DETWEILLER DR. PEORIA 61615. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE PROPOSED CCTV CAMERAS AND TRAFFIC COUNTERS.

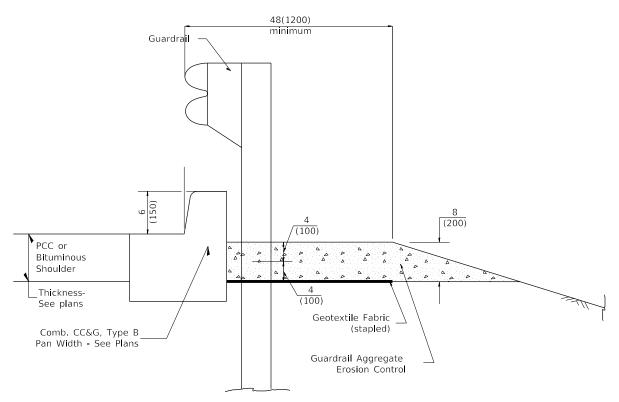
NOT	TO	SCALE

COMMISSION EX. TRAFFIC SIGNAL MAST ARM EX. ITS CABINET

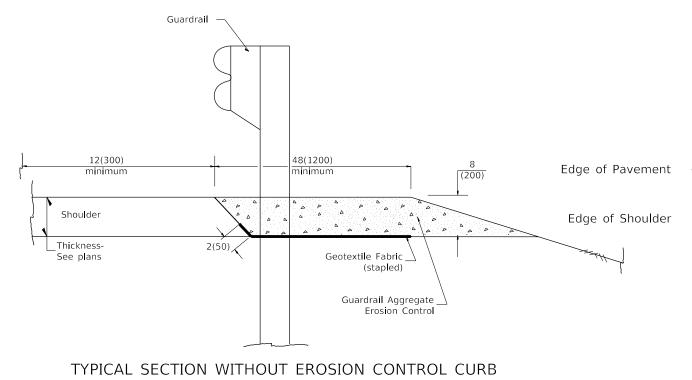
EX. DETECTOR LOOP

EX. HANDHOLE EX. CONDUIT

USER NAME = hansontj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PROPOSED ITS EQUIPMENT INSTALLATION							SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			VADIO	HC LOCAT			74	D4 DYNAMIC	MESSAGE SIGNS 20	20 PEORIA &	43	39
PLOT SCALE = 81.9197 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			VARIU	US LUCA	ION2					CONTRAC	T NO. 68	E72
PLOT DATE = 12/13/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS FED	AID PROJECT		

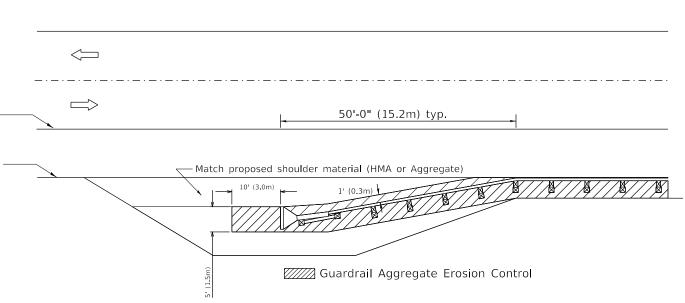


TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



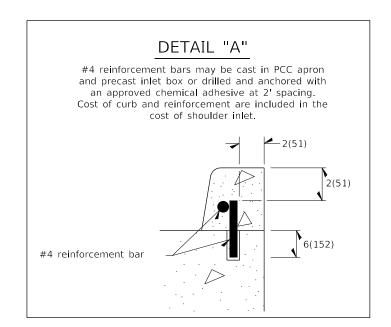
GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

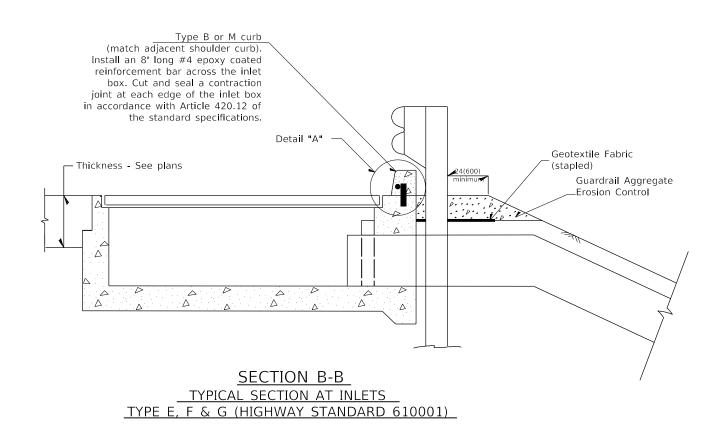
- 1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
- 2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
- 3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
- 4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
- 5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
- 6. Materials shall meet the following requirements:
- A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
- B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

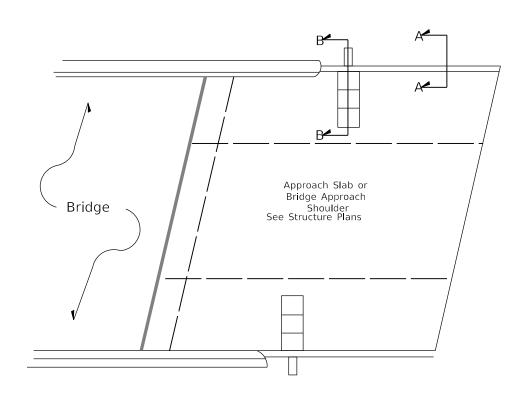


All dimensions are in inches (millimeters) unless otherwise noted.

03-07-11	ADDED DETAIL SHOWING PLAN VIEW R.D.	5-30-18 CHANGE B CURB TO CC&G	R.D.			F.A	.I. SECTION	COUNTY	TOTAL SHEET
08-10-12	REVISED CURB "B" AND AGGREGATE R.D.	07-16-19 SPELLING CORRECTIONS R	R.D.	STATE OF ILLINOIS	GUARDRAIL EROSION CONTROL TREATMENTS	74	D4 DYNAMIC MESSAGE SIGNS 2020	PEORIA &	43 40
07-15-15	ADDRESSED SHOULDER INLET CURB R.D.			DEPARTMENT OF TRANSPORTATION	SHT. 1	OF 2		CONTRAC	T NO. 68E72
01-26-17	REVISED R.D.				NOT TO SCALE CADD STD. 630101	-D4 FEE	ROAD DIST, NO. ILLINOIS FED. A	ID PROJECT	

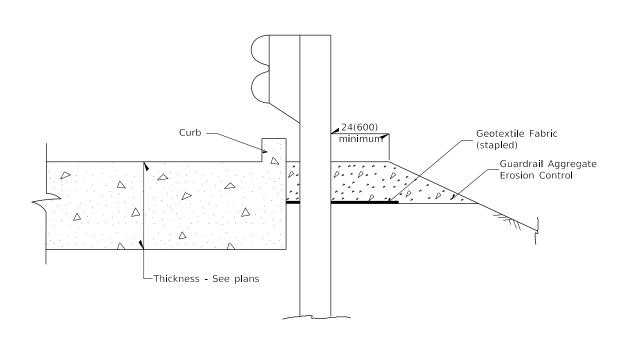






PLAN VIEW

APPROACH SLAB OR SHOULDER PLACEMENT



SECTION A-A

TYPICAL SECTION WITH BRIDGE APPROACH CURB

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION All dimensions are in inches (millimeters) unless otherwise noted.

CHARDONAL EDOCION CONTROL TREATMENTS	F.A.I. RTE.	SECTION	ON	COUNTY	TOTAL SHEETS	SHEET NO.
GUARDRAIL EROSION CONTROL TREATMENTS	74	74 D4 DYNAMIC MESSAGE SIGNS		PEORIA & TAZEWELL	43	41
SHT. 2 OF 2				CONTRAC	T NO. 6	8E72
TO SCALE CADD STD. 630101-D4	FED, RO	DAD DIST, NO. IL	LINOIS FED. AI	D PROJECT		

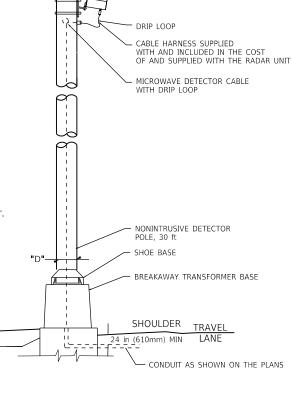
MICROWAVE DETECTOR INSTALLATION DETAILS OFFSET FT (M) 20.0 (6.1) 17.0 (5.2) 10.0 (3.0) 15.0 (4.6) 20.0 (6.1 17.0 (5.2) 20.0 (6.1 25.0 (7.6) 17.0 (5.2) 25.0 (7.6) 20.0 (6.1) 30.0 (9.1) 23.0 (7.0) 25.0 (7.6 23.0 (7.0) 35.0 (10.7) 25.0 (7.6) 25.0 (7.6) 25.0 (7.6) 40.0 (12.2) 45.0 (13.7) 25.0 (7.6) 25.0 (7.6 50.0 (15.2) 25.0 (7.6) 25.0 (7.6) NOTES: (SEE TABLE 1) DIMENSIONS REFERENCED FROM THE EDGE OF PAVEMENT NOTES: DETECTOR UNIT TO BE AIMED AT CENTER OF DETECTION ZONE WHEN TWO DETECTORS ARE USED IN TANDEM AT A GIVEN LOCATION, DETECTION ZONE SHALL INCLUDE ALL TRAVEL LANES IN A SINGLE DIRECTION NEAREST EACH DETECTOR. WHEN A SINGLE DETECTOR IS USED AT A GIVEN LOCATION, THE DETECTOR ZONE SHALL INCLUDE ALL TRAVEL LANES IN BOTH DIRECTIONS. FINAL SETUP AND CALIBRATION TO BE PERFORMED BY MANUFACTURER'S FIELD REPRESENTATIVE IN CONJUNCTION WITH THE SYSTEMS INTEGRATOR. - SEE MICROWAVE DETCTOR MOUNTING DETAILS (SHEET 54) APPROVED MICROWAVE POLE DRAWING: 45° ELEVATION VALMONT, DRAWING NUMBER IL4894404 BEAM-WIDTH -SEE NOTE 1 -SEE NOTE 2 DISTANCE "X" (SEE TABLE 1) E.P. E.S. **DETECTION ZONE** TYPICAL MICROWAVE DETECTOR INSTALLATION CROSS SECTION VIEW

 DETECTOR POLE

 SHAFT LENGTH
 SHOE BASE BOLT CIRCLE
 TRANS. BASE BOLT CIRCLE
 POLE BASE DIA. (D)

 28 ft (8.5 m)
 11.0 in (280 mm)
 15.0 in (380 mm)
 8.0 in (203 mm)

- 1. ALL CABLES TO BE INSTALLED WITHIN CONDUIT AS NOTED.
- 2. CABLE/CONDUITS SHALL NOT ENTER TOPS OF ENCLOSURES, CABINETS OR PULL/JUNCTION BOXES.
- CABLE HARNESS FROM POLE MOUNTED EQUIPMENT IS SUPPLIED WITH ITS ASSOCIATED EQUIPMENT. ALL STAINLESS STEEL STRAPS FOR FASTENING CABLES BRACKETS, ETC. ARE PAID FOR AS PART OF ITS ASSOCIATED EQUIPMENT. PROVIDE DRIP LOOP AT EACH CABLE TERMINATOR.



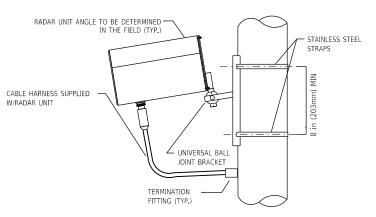
MICROWAVE DETECTOR SEE TYPICAL MICROWAVE DETECTOR MOUNTING DETAILS

MICROWAVE DETECTOR POLE MOUNTING DETAIL

CONCRETE FOUNDATION, TYPE E

24-INCH (600MM) DIAMETER (SEE NONINTRUSIVE DETECTOR POLE FOUNDATION DETAIL)

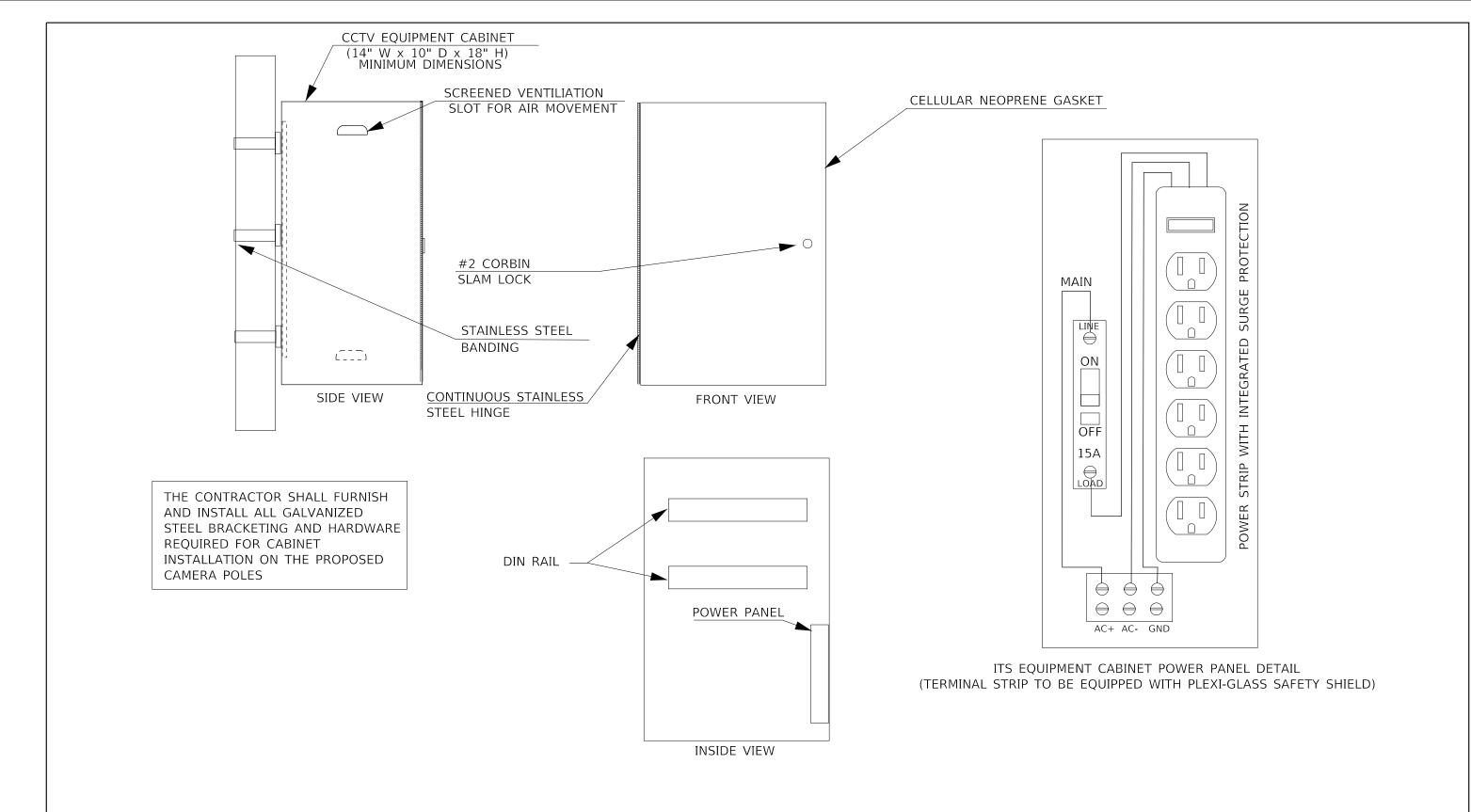
SEE MICROWAVE DETECTOR INSTALLATION DETAILS TABLE FOR POLE OFFSET AND MOUNTING HEIGHT



MOUNTED TO VERTICAL POLE

MICROWAVE DETECTOR MOUNTING DETAILS

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NOTES

- 1. THE ITS EQUIPMENT CABINET SHALL BE A NEMA TYPE 3R CABINET WITH MINIMUM OUTSIDE DIMENSIONS OF 20" (H) X 14" (W) X 10" (D) (NOMINAL). THE CABINET SHALL BE CONSTRUCTED FROM .125" THICK ALUMINUM AND HAVE A NATURAL FINISH.
- 2. THE CABINET SHALL BE EQUIPPED WITH A #2 CORBIN (OR SKELETON KEY) SLAM LOCK, AND ALL STAINLESS STEEL HARDWARE.

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